



PUB. 112
LIST OF LIGHTS

RADIO AIDS AND FOG SIGNALS

2013

WESTERN PACIFIC AND INDIAN OCEANS
INCLUDING THE PERSIAN GULF AND RED
SEA

IMPORTANT

**THIS PUBLICATION SHOULD BE CORRECTED
EACH WEEK FROM THE NOTICE TO MARINERS**



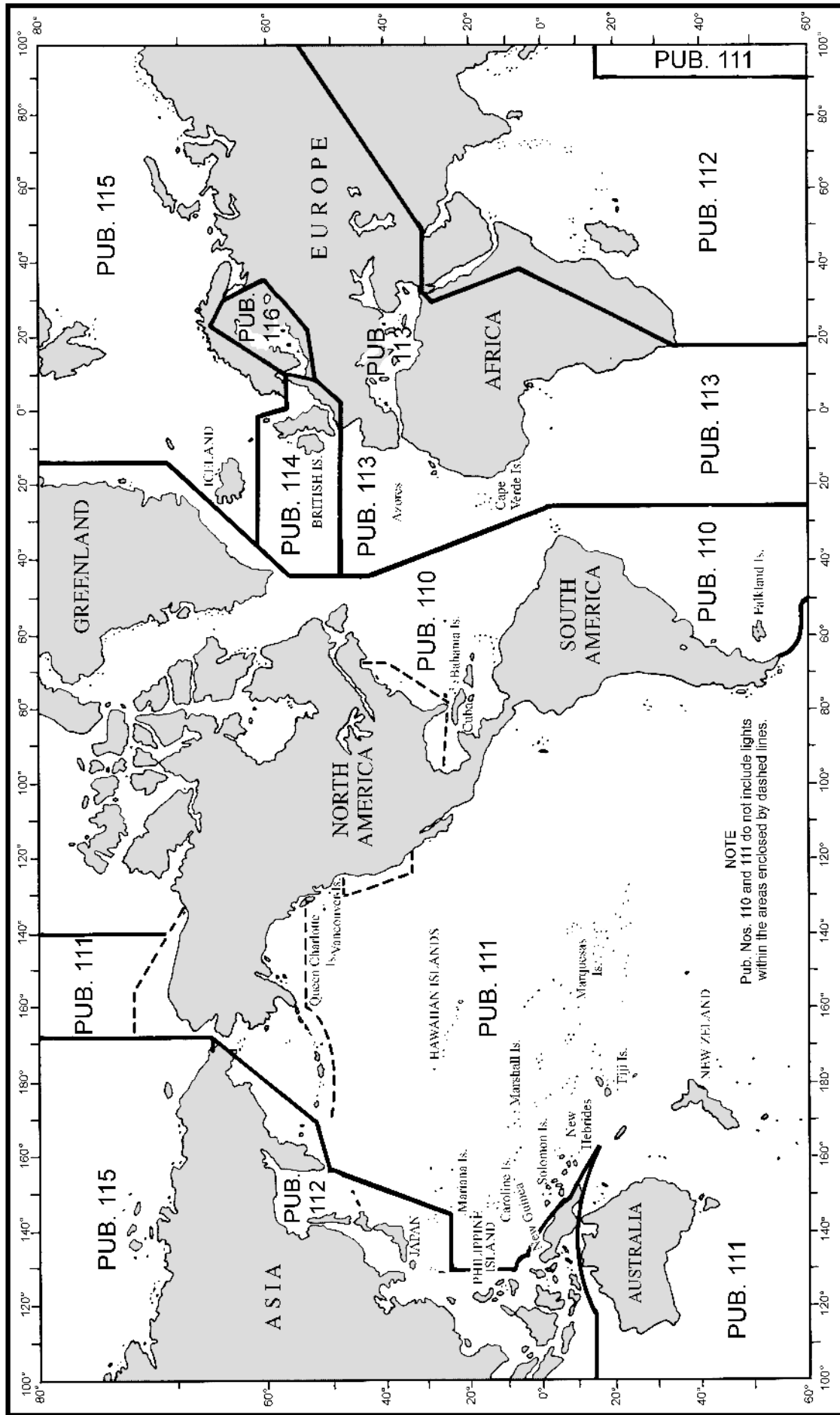
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LIST OF LIGHTS LIMITS NATIONAL GEOSPATIAL-INTELLIGENCE AGENCY



WARNING ON USE OF FLOATING AIDS TO NAVIGATION TO FIX A NAVIGATIONAL POSITION

The aids to navigation depicted on charts comprise a system consisting of fixed and floating aids with varying degrees of reliability. Therefore, prudent mariners will not rely solely on any single aid to navigation, particularly a floating aid.

The buoy symbol is used to indicate the approximate position of the buoy body and the sinker which secures the buoy to the seabed. The approximate position is used because of practical limitations in positioning and maintaining buoys and their sinkers in precise geographical locations. These limitations include, but are not limited to, inherent imprecisions in position fixing methods, prevailing atmospheric and sea conditions, the slope of and the material making up the seabed, the fact that buoys are moored to sinkers by varying lengths of chain, and the fact that buoy and/or sinker positions are not under continuous surveillance but are normally checked only during periodic maintenance visits which often occur more than a year apart. The position of the buoy body can be expected to shift inside and outside the charting symbol due to the forces of nature. The mariner is also cautioned that buoys are liable to be carried away, shifted, capsized, sunk, etc. Lighted buoys may be extinguished or sound signals may not function as the result of ice or other natural causes, collisions, or other accidents.

For the foregoing reasons, a prudent mariner must not rely completely upon the position or operation of floating aids to navigation, but will also utilize bearings from fixed objects and aids to navigation on shore. Further, a vessel attempting to pass close aboard always risks collision with a yawing buoy or with the obstruction the buoy marks.

PREFACE

The 2013 edition of Pub. 112, List of Lights, Radio Aids and Fog Signals for the Western Pacific and Indian Oceans including the Persian Gulf and Red Sea, cancels the previous edition of Pub. 112.

This edition contains information available to the National Geospatial-Intelligence Agency (NGA) up to 7 September 2013, including Notice to Mariners No. 36 of 2013.

A summary of corrections subsequent to the above date will be in Section II of the Notice to Mariners which announced the issuance of this publication.

In the interval between new editions, corrective information affecting this publication will be published in the Notice to Mariners and must be applied in order to keep this publication current.

Nothing in the manner of presentation of information in this publication or in the arrangement of material implies endorsement or acceptance by NGA in matters affecting the status and boundaries of States and Territories.

RECORD OF CORRECTIONS PUBLISHED IN WEEKLY NOTICE TO MARINERS

NOTICE TO MARINERS

YEAR 2013				YEAR 2014			
1.....	14.....	27.....	40.....	1.....	14.....	27.....	40.....
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INTRODUCTION

The National Geospatial-Intelligence Agency publishes a List of Lights, Radio Aids and Fog Signals in seven volumes divided geographically as shown on the index chartlet on the inside front cover of this book. Major fixed and outermost floating aids to navigation, such as sea buoys, safety fairway buoys, traffic separation buoys, etc., are listed. Other floating aids are not generally listed. Storm signals, signal stations, radio direction finders, radiobeacons, RACONs and RAMARKs located at or near lights are found in this List. Radiobeacons are listed in a separate section in the back of this publication.







The date to which this publication has been corrected can be found in the Preface. In the interval between new editions, corrective information affecting this publication will be published in Section II of Notice to Mariners, and must be applied to keep this publication current. All of these corrections should be applied in the appropriate places and their insertion noted in the "Record of Corrections."

Mariners and other users are requested to forward new or corrective information useful in the correction of this publication to:

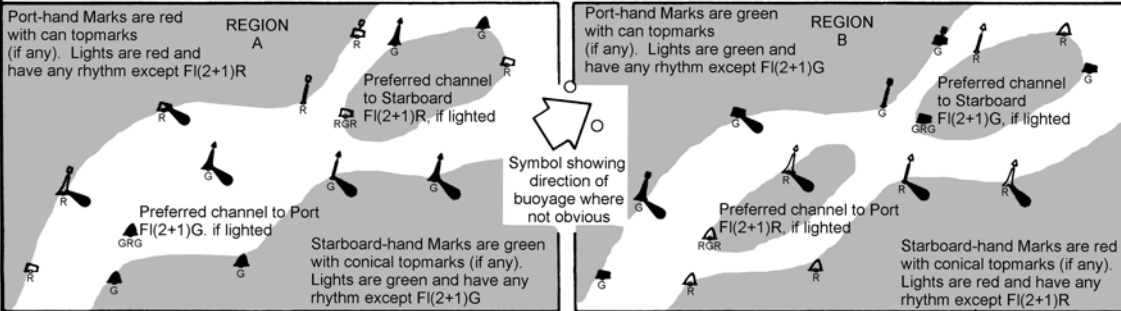
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SPRINGFIELD, VA 22150-7500

Buoys and Beacons IALA* Buoyage System

Where in force, the IALA System applies to all fixed and floating marks and occasionally lighthouses, sector lights, range marks, lightships and LANBY's (large automatic navigational buoys).

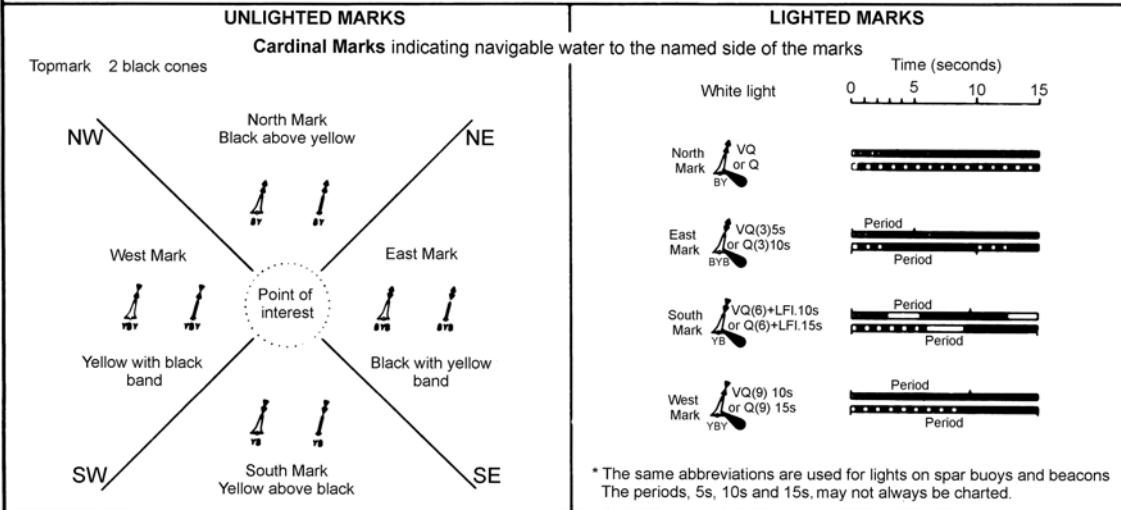
The standard buoy shapes are cylindrical (can) , conical , spherical , pillar (including high focal plane) , and spar , but variations may occur, for example lightfloats . In the illustrations below, only the standard buoy shapes are used. In the case of fixed beacons (lighted or unlighted), only the shape of the topmark is of navigational significance.

Lateral Marks (used in conjunction with a conventional direction of buoyage) are generally for well-defined channels. There are two international Buoyage Regions-A and B-where Lateral marks differ.



A preferred channel buoy may also be a pillar or a spar All preferred channel marks have three horizontal bands of color

All marks other than Lateral Marks are the same in REGIONS A and B



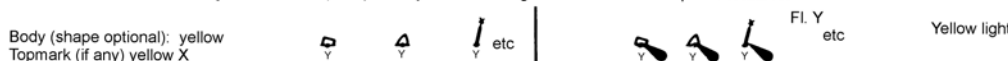
Isolated Danger Marks, stationed over dangers with navigable water around them.


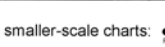


Safe Water Marks, such as mid-channel and landfall marks.



Special Marks, not primarily to assist navigation but to indicate special features.



BEACONS with IALA System topmarks are charted by upright symbols. eg.  (minor beacon) or, on smaller-scale charts: 

Beacon towers are charted:  (occasionally lighted)

RADAR REFLECTORS on buoys and beacons are not generally charted.

COLOR ABBREVIATIONS under symbols, especially those of spar buoys, may be omitted, or may be at variance with symbols shown above.

LIGHTFLOATS: The IALA System is not usually applied to large lightfloats (replacing manned lightships) but may be applied to smaller lightfloats.

* IALA is an abbreviation of International Association of Lighthouse Authorities

THE NATIONAL GEOSPATIAL-INTELLIGENCE AGENCY MARITIME SAFETY WEBSITE

The National Geospatial-Intelligence Agency (NGA) Maritime Safety Website provides worldwide remote query access to extensive menus of maritime safety information 24 hours a day.

Databases made available for access, query and download include Chart Corrections, Publication Corrections, NGA/DLIS Catalog Corrections, Chart and Publication Reference Data (current edition number, dates, title, scale), NGA List of Lights, USCG Light Lists, WorldWide Navigational Warning Service (WWNWS) Broadcast Warnings, Maritime Administration (MARAD) Advisories, Department of State Special Warnings, Mobile Offshore Drilling Units (MODUs), Anti-Shipping Activity Messages (ASAMs), World Port Index, and Radio Navigational Aids. Publications that are also made available as PDF files include the U.S. Notice to Mariners, U.S. Chart No. 1, The American Practical Navigator (Bowditch), International Code of Signals, Radio Navigational Aids, World Port Index, Distances Between Ports, Sight Reduction Tables for Marine and Air Navigation, and the Radar Navigation and Maneuvering Board Manual.

The Maritime Safety Website can be accessed via the NGA Homepage (www.nga.mil) under the Products and Services link or directly at <http://msi.nga.mil/NGAPortal/MSI.portal>. Any questions concerning the Maritime Safety Website should be directed to:

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Telephone: (1) 571-557-7103 or DSN 547-7103
E-mail: webmaster_nss@nga.mil

DESCRIPTION

(Lights, Buoys, RACONs, RAMARKs)

Information is tabulated in eight columns as follows:

Column 1: The number assigned to each light, RACON or RAMARK by this Agency. International numbers are listed below this number in italic type and in a cross reference in the back of the book. RACONs and RAMARKs located at a light are listed with the light. Those not located at a light are assigned separate numbers.

Column 2: Name and descriptive location of the light or buoy, RACON or RAMARK. A dash (-) or dashes (--) in this column is used to reduce repetition of principal geographic names. This column is intended to describe the location of the navigational aid and to distinguish it from others in proximity. Differences in type indicate the following:

Bold-faced: Lights intended for landfall or having a visibility (range) of 15 miles or more.

Italics: Floating aids.

ITALICS CAPITALS: Lightships and LANBYs.

Roman: All other lights not mentioned above.

Column 3: Approximate latitude and longitude of a navigational aid to the nearest tenth of a minute, intended to facilitate chart orientation (use column 2 and the appropriate chart for precise positioning).

Column 4: Light, buoy, RACON or RAMARK characteristic (see Characteristics of Lights chart for explanation of lights).

Column 5: Height of light in feet (Roman type) equivalent measurement (below) given in meters (Bold-faced type).

Column 6: Range. The distance, expressed in nautical miles, that a light can be seen in clear weather or that a RACON or RAMARK can be received.

Column 7: Description of the structure and its height in feet.

Note—Stripes are vertical. Bands are horizontal. The use of the term “diagonal stripes” is the exception.

Column 8: Remarks—sectors, fog signals, radar reflectors, minor lights close by, radiobeacons, storm signals, signal stations, radio direction finders, and other pertinent information.

Geographic names or their spellings do not necessarily reflect recognition of the political status of an area by the

United States Government.

The names of lights may differ from geographic names on charts.

ABBREVIATIONS





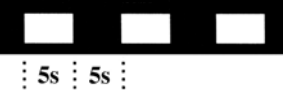





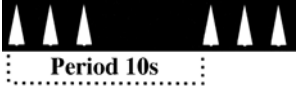


Where the lights of different countries intermingle in the list they are distinguished by the following letters:






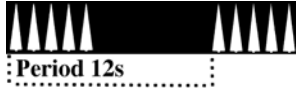




(Aus.)	Australia	(J.)	Japan
(C.)	China	(M.)	Malaysia
(F.)	France	(P.)	Portugal
(Ind.)	Indonesia	(T.)	Thailand
(In.)	Iran	(U.K.)	United Kingdom
(Iq.)	Iraq	(U.S.)	United States

Other abbreviations:

Al.—alternating	lt.—lit
bl.—blast	Mo.—Morse code
Bu.—blue	min.—minute
Dir.—directional	obsc.—obscured
ec.—eclipsed	Oc.—occluding
ev.—every	Or.—orange
F.—fixed	Q.—quick flashing
Fl.—flashing	R.—red
fl.—flash	s.—seconds
G.—green	si.—silent
horiz.—horizontal	U.Q.—ultra quick flashing
intens.—intensified	unintens.—unintensified
I.Q.—interrupted quick flashing	vert.—vertical
Iso.—isophase	Vi.—violet
I.V.Q.—interrupted very quick flashing	vis.—visible
Km.—kilometer (0.62137 mile)	V.Q.—very quick flashing
L.Fl.—long flashing	W.—white
	Y.—yellow

CHARACTERISTICS OF LIGHTS

TYPE	ABBR.	GENERAL DESCRIPTION	ILLUSTRATION
Fixed	F.	A continuous and steady light.	
Occulting	Oc.	The total duration of light in a period is longer than the total duration of darkness and the intervals of darkness (eclipses) are usually of equal duration. Eclipse regularly repeated.	
Group occulting	Oc.(2)	An occulting light for which a group of eclipses, specified in number, is regularly repeated.	
Composite group occulting	Oc.(2+1)	A light similar to a group occulting light except that successive groups in a period have different numbers of eclipses.	
Isophase	Iso.	A light for which all durations of light and darkness are clearly equal.	
Flashing	Fl.	A light for which the total duration of light in a period is shorter than the total duration of darkness and the appearances of light (flashes) are usually of equal duration (at a rate of less than 50 flashes per minute).	
Long flashing	L.Fl.	A single flashing light for which an appearance of light of not less than 2 sec. duration (long flash) is regularly repeated.	
Group flashing	Fl.(3)	A flashing light for which a group of flashes, specified in number, is regularly repeated.	
Composite group flashing	Fl.(2+1)	A light similar to a group flashing light except that successive groups in a period have different numbers of flashes.	
Quick flashing	Q.	A light for which a flash is regularly repeated at a rate of not less than 50 flashes per minute but less than 80 flashes per minute.	
Group quick flashing	Q.(3)	A light for which a specified group of flashes is regularly repeated; flashes are repeated at a rate of not less than 50 flashes per minute but less than 80 flashes per minute.	
	Q.(9)		
	Q.(6)+L.Fl.		

TYPE	ABBR.	GENERAL DESCRIPTION	ILLUSTRATION
Interrupted quick flashing	I.Q.	A light for which the sequence of quick flashes is interrupted by regularly repeated eclipses of constant and long duration.	
Very quick flashing	V.Q.	A light for which a flash is regularly repeated at a rate of not less than 80 flashes per minute but less than 160 flashes per minute.	
Group very quick flashing	V.Q.(3)	A light for which a specified group of very quick flashes is regularly repeated.	
	V.Q.(9)		
	V.Q.(6)+L.Fl.		
Interrupted very quick flashing	I.V.Q.	A light for which the sequence of very quick flashes is interrupted by regularly repeated eclipses of constant and long duration.	
Ultra quick flashing	U.Q.	A light for which a flash is regularly repeated at a rate of not less than 160 flashes per minute.	
Interrupted ultra quick flashing	I.U.Q.	A light for which the sequence of ultra quick flashes is interrupted by regularly repeated eclipses of constant and long duration.	
Morse code	Mo.(U)	A light for which appearances of light of two clearly different durations are grouped to represent a character or characters in Morse Code.	
Fixed and flashing	F.Fl.	A light for which a fixed light is combined with a flashing light of greater luminous intensity.	
Alternating light	Al.	A light showing different colors alternately.	

NOTE - Alternating lights may be used in combined form with most of the previous types of lights.

NOMENCLATURE OF LIGHTS

Lights exhibit a distinctive appearance by which they are recognized, e.g. Fixed, Flashing, Group Flashing, etc. The properties of their appearance, by which they are distinguished, are referred to as the *characteristics* of the light. The principal characteristics are generally the sequence of intervals of light and darkness, and, in some cases, the sequence of colors of light exhibited.

Fixed lights—those which exhibit a continuous steady light.

Rhythmic lights—those which exhibit a sequence of intervals of light and eclipse (repeated at regular intervals) in a manner described in Chart No. 1 and this volume.

Alternating lights—rhythmic lights which exhibit different colors during each sequence.

Period of a light—the time occupied by an entire cycle of intervals of light(s) and eclipse(s).

Range: Meteorological visibility—the greatest distance at which a black object of suitable dimensions can be seen and recognized against the horizon sky or, in the case of night observations, could be seen and recognized if the general illumination were raised to the normal daylight level.

Luminous range of a light—the greatest distance at which a light can be seen merely as a function of its luminous intensity, the meteorological visibility, and the sensitivity of the observer's eyes.

Nominal range of the light—the luminous range of a light in a homogeneous atmosphere in which the meteorological visibility is 10 nautical miles.

Geographical range of a light—the greatest distance at which a light can be seen as a function of the curvature of the earth, the height of the light source and the height of the observer.

The visibility of a light is usually the distance that it can be seen in clear weather and is expressed in nautical miles. Visibilities listed are values received from foreign sources.

Range lights—two or more lights at different elevations, so situated to form a range (leading line) when brought into transit. The light nearest the observer is the *front light* and the one farthest from the observer is the *rear light*. The front light is normally at a lower elevation than the rear light.

Directional lights—lights illuminating a sector of very narrow angle and intended to mark a direction to be followed.

Vertical lights—Two or more lights disposed vertically or geometrically to form a triangle, square, or other figure. If the individual lights serve different purposes, those of lesser importance are called *Auxiliary lights*.

Occasional lights—lights exhibited only when specially needed:

(a) *Tidal light*—shown at the entrance of a harbor, to indicate tide and tidal current conditions within the harbor.

(b) *Fishing light*—for the use of fishermen and shown when required.

(c) *Private light*—maintained by a private authority for its own purposes. The mariner should exercise special caution when using a private light for general navigation.

Seasonal lights—usually shown only during the navigation season or for a lesser time period within that season.

Articulated lights—offshore aids to navigation consisting of a length of pipe attached directly to a sinker by means of a pivot or such other device employing the principle of the universal joint. The positional integrity is intermediary between that of a buoy and a fixed aid.

Aeronautical lights—lights of high intensity which may be the first lights observed at night from vessels approaching the coast. Those lights situated near the coast are listed in the List of Lights in order that the navigator may be able to obtain more information concerning their description.

These lights are not designed or maintained for marine navigation and they are subject to change without prompt notification.

These lights are indicated in this List by the designation AVIATION LIGHT and are placed in geographical sequence in the body of the text along with lights for surface navigation.

Aeromarine lights—marine-type lights for which part of the beam is deflected to an angle of 10 to 15 degrees above the horizon to facilitate use by aircraft.

Sector limits and arcs of visibility—these are arranged clockwise and are given from seaward toward the light. Thus, in the diagram, the sectors of the light are defined as: obscured from shore to 302°, red to 358°, green to 052°, white to shore. These are bearings of the light as seen from a vessel crossing the sector lines.

Under some conditions of the atmosphere, white lights may have a reddish hue. The mariner should not judge solely by color where there are sectors but should verify this position by taking a bearing of the light. On either side of the line of demarcation between white and red there is always a small sector of uncertain color, as the edges of a sector of visibility cannot be clearly defined.

When a light is obscured by adjoining land and the arc of visibility is given, the bearing on which the light disappears may vary with the distance from which it is observed. When the light is cut off by a sloping point of land or hill, the light may be seen over a wider arc by a ship farther off than by one closer.

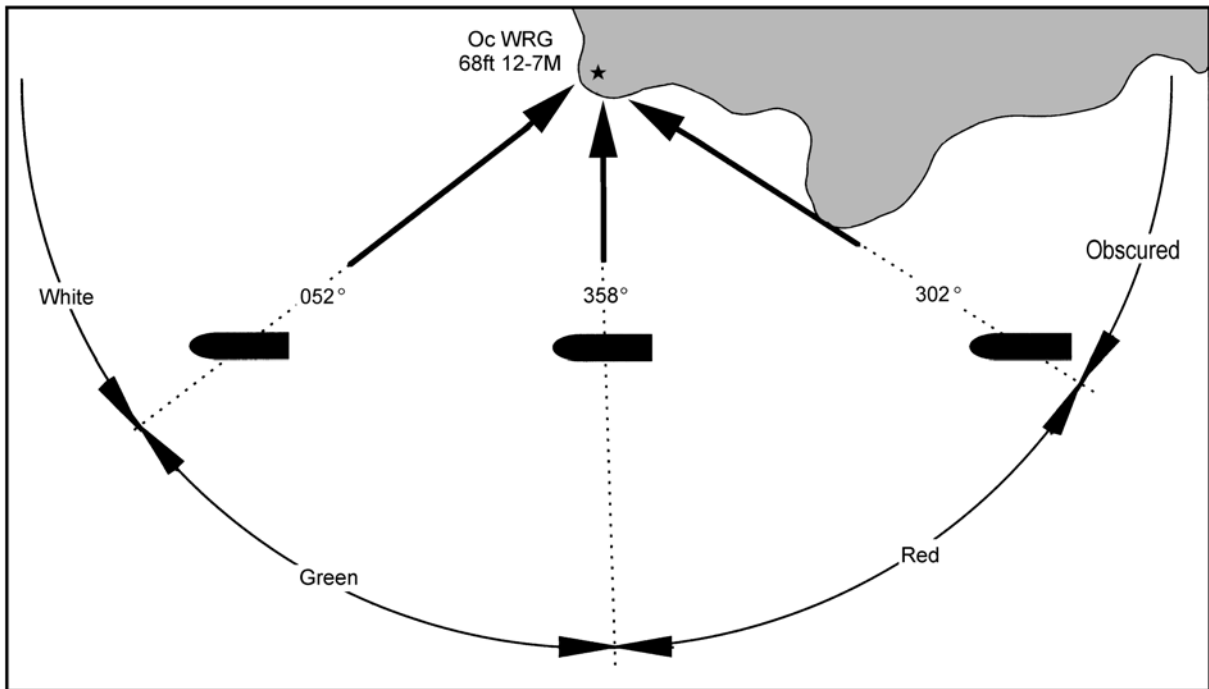
Bearings—all bearings are true, measured clockwise from 000°, and given in degrees or degrees and minutes.

Russian lights are shown throughout the winter when icebreakers are working.

The latest *Russian* charts and publications give only sufficient details for navigation to the ports open to interna-

tional trade. Thus, in this volume, only those lights along the routes to such ports can be assumed to be correct. Else-

where the latest available information, often not recent, is listed.



LIGHTSHIPS, SUPERBUOYS, AND OFFSHORE LIGHT STATIONS

Courses should be set to pass all floating aids to navigation with sufficient clearance to avoid the possibility of collision from any cause. Experience shows that floating aids to navigation cannot be safely used as leading marks to be passed close aboard, but should always be left broad off the course, whenever searoom permits.

When approaching a lightship, superbuoy, or a station on a submarine site on radio bearings, the risk of collision will be avoided by insuring that the radio bearing does not remain constant.

Most lightships and large buoys are anchored with a very long scope of chain and, as a result, the radius of their swinging circle is considerable. The charted position is the location of the anchor. Furthermore, under certain conditions of wind and current, they are subject to sudden and unexpected sheers which are certain to hazard a vessel attempting to pass close aboard.

During extremely heavy weather and due to their exposed locations, lightships may be carried off station. The mariner should, therefore, not implicitly rely on a lightship maintaining its precisely charted position during and immediately following severe storms. A lightship known to be off station will secure her light, fog signal, and radiobeacon and fly the International Code signal "LO" signifying "I am not in my correct position."

Lightships in *India* carry a white riding light on the forestay.

The following regulations have been established for lightships in the Hugli River:

A white light is exhibited from the forestay of each lightship, at a height of 2m, above the rail, for the purpose of showing in which direction the vessel is riding when at her station. Attended lightships out of position will not display their distinguishing mark; at night, the station light will be extinguished, a fixed red light shown at the bow and stern and red and white flares burnt every 15 minutes. If an attended lightship is in danger and requires assistance from shore, explosive rockets will be fired by day and, during fog, a bell will be rung at intervals of about 1 minute only when in danger of collision.

From 15 March to 31 October the pilot vessel on duty at Sandheads will exhibit, every 15 minutes between sunset and sunrise, a searchlight beam at an elevation of 30°. The light will be revolved from east, through south, to west and back again, the total period being 2 minutes.

Indonesian lights are unreliable, being frequently irregular or extinguished.

Lightships in *Iraq*, when out of position, will discontinue their characteristic lights and fog signals. They will show instead two black balls, one forward and one aft, or two red lights, one forward and one aft. In addition they will hoist the signal "LO" or will show a red and a white light, or flare-up light, every 15 minutes. Red flags may be

used instead of the black ball.

A lightship under way shows the same lights, and makes the same sound signals as other vessels under way, and by day hoists two black balls or red flags, one forward and one aft.

Korean lights are unreliable, being frequently irregular or extinguished.

Lights in the *Philippines* are unreliable, being frequently irregular or extinguished.

Lightships in *Thailand*, when out of position, discontinue their characteristic lights. They will show instead two black balls, one forward and one aft, and hoist the signal "LO" at the yardarm, or will show two red lights, one forward and one aft, and a white light simultaneously at least every 15 minutes.

The latest *Russian* charts and publications give only sufficient details for navigation to ports open to international trade. Thus, in this volume, only those lights along the routes to such ports can be assumed to be correct. Elsewhere the latest available information, often not of very recent date, is listed.

Lightships remain on their stations during the period of navigation only; if forced to leave stations on account of ice they are replaced as soon as possible.

By day they show a ball over a yellow flag with a blue St. George's cross and, by night, carry a white riding light. If a vessel is seen to be running into danger the signal "NF" of the International Code of Signals is hoisted, and if not immediately seen, rockets with two explosions and bright stars may be fired every minute; by night rockets only are used.

When not on their proper stations, the light vessels discontinue their characteristic lights and fog signals and, if possible, will lower their daymarks. They will show instead two black balls, one forward and one aft, or two red lights, one forward and one aft. In addition they will hoist the signal "LO" or show a red and a white flare-up light or flash simultaneously, at least every 15 minutes.

Red flags may be displayed in place of the black balls and red and a white light shown simultaneously may be used in place of the flare-up light or flash.

A lightship under way shows the same lights and makes the same sound signals as other vessels under way and, if preceding under its own power, hoists two black balls, one forward and one aft.

Reserve lightships are painted red and equipped with two masts. By day they display a red ball at each mast, and by night exhibit a fixed red light from the same positions. Fog signals are sounded and the warning signals described above are employed.

Fog bells at lighthouses and lightvessels are sounded, unless otherwise stated in the following uniform manner:

(a) at lighthouses: in groups of double strokes, the interval between the groups being not more than 3 minutes.

(b) at lightships: in groups of triple strokes, the interval between the groups being not more than 2 minutes.

When the fog signal of an approaching vessel is heard, the intervals between the double and triple strokes in the groups are reduced and the bell is sounded continuously in double or triple strokes until the vessel is past the light or clear of danger.

FOG SIGNALS

The function of a fog signal in the system of aids to navigation is to warn of danger and to provide the mariner with an audible means of approximating his position relative to the fog signal when the station, or any visual signal which it displays, is obscured from view by atmospheric conditions.

Fog signals depend upon the transmission of sound through air. As aids to navigation, they have certain inherent defects that should be considered. Sound travels through the air in a variable and frequently unpredictable manner.

It has been established that:

(a) fog signals are heard at greatly varying distances and that the distance at which a fog signal can be heard may vary with the bearing of the signal and may be different on different occasions;

(b) under certain conditions of atmosphere, when a fog signal has a combination of high and low tones, it is not unusual for one of the tones to be inaudible. In the case of sirens, which produce a varying tone, portions of the blast may not be heard;

(c) there are occasionally areas close to the signal in which it is wholly inaudible. This is particularly true when the fog signal is screened by intervening land or other obstructions;

(d) fog may exist a short distance from a station and not be observable from it, so that the signal may not be in operation;

(e) even though a fog signal may not be heard from the deck or bridge of a ship when the engines are in motion, it may be heard when the ship is stopped, or from a quiet position. Sometimes it may be heard from aloft though not on deck;

(f) the intensity of the sound emitted by a fog signal may be greater at a distance than in immediate proximity.

All these considerations point to the necessity for the utmost caution when navigating near land in fog. Particular attention should be given to placing lookouts in positions in which the noises in the ship are least likely to interfere with hearing a fog signal. Fog signals are valuable as warnings, but the mariner should not place implicit reliance upon them in navigating his vessel. They should be considered solely as warning devices.

Among the devices in common use as fog signals are:

Radiobeacons which broadcast simple dot-and-dash combinations by means of a transmitter emitting modulated continuous waves;

Diaphones which produce sound by means of a slotted reciprocating piston actuated by compressed air. Blasts

may consist of two tones of different pitch, in which case the first part of the blast is high and the last of a low pitch. These alternate pitch signals are called "two-tone;"

Diaphragm horns which produce sound by means of a diaphragm vibrated by compressed air, steam, or electricity. Duplex or triplex horn units of differing pitch produce a chime signal;

Nautophones, electrically operated instruments, each comprising a vibrating diaphragm, fitted with a horn, which emits a high note similar in power and tone to that of the reed;

Reed horns which produce sound by means of a steel reed vibrator by compressed air;

Sirens which produce sound by means of either a disk or a cup-shaped rotor actuated by compressed air or electricity;

Whistles which produce sound by compressed air emitted through a circumferential slot into a cylindrical bell chamber;

Bells which are sounded by means of a hammer actuated by hand, wave motion, by a descending weight, compressed gas, or electricity;

Guns and explosive signals which are produced by firing of explosive charges, the former being discharged from a gun, and the latter being exploded in midair;

Fog Detector Lights—certain light stations, in addition to the main light, are equipped with fog detector lights for automatic detection of fog. These lights sweep back and forth through an area over which the fog watch is necessary, showing a powerful bluish-white flash of about 1 second in duration. The interval between successive flashes will vary with the position of the vessel within the sector. At the limits of the sector the duration of the flash may be considerably longer than 1 second.

Fog detector lights operate continuously.

Standby fog signals are sounded at some of the light and fog signal stations when the main fog signal is inoperative. Some of these standby fog signals are of a different type and characteristic than the main fog signal.

Radiobeacons, RACONS, RAMARKs, and radio direction-finders are mentioned in the List of Lights, but for detailed information, including the synchronization of radio signals and sound signals for distance finding, the navigator should consult Pub. 117, Radio Navigational Aids.

Note—use Chart No. 1 for the complete list of symbols and abbreviations commonly used in presenting the essential characteristics of lights, fog signals, and radio aids found on charts.

VISIBILITY TABLE

Table of distances at which objects can be seen at sea according to their respective elevations and the elevation of the eye of the observer.

Height in Feet	Distance in geographic or nautical miles	Height in feet	Distance in geographic or nautical miles	Height in feet	Distance in geographic or nautical miles	Height in feet	Distance in geographic or nautical miles	Height in feet	Distance in geographic or nautical miles	Height in feet	Distance in geographic or nautical miles
1	1.2	23	5.6	45	7.8	135	13.6	340	21.6	600	28.7
2	1.7	24	5.7	46	7.9	140	13.8	350	21.9	620	29.1
3	2.0	25	5.9	47	8.0	145	14.1	360	22.2	640	29.5
4	2.3	26	6.0	48	8.1	150	14.3	370	22.5	660	30.1
5	2.6	27	6.1	49	8.2	160	14.8	380	22.8	680	30.5
6	2.9	28	6.2	50	8.3	170	15.3	390	23.1	700	31.0
7	3.1	29	6.3	55	8.7	180	15.7	400	23.4	720	31.4
8	3.3	30	6.4	60	9.1	190	16.1	410	23.7	740	31.8
9	3.5	31	6.5	65	9.4	200	16.5	420	24.0	760	32.3
10	3.7	32	6.6	70	9.8	210	17.0	430	24.3	780	32.7
11	3.9	33	6.7	75	10.1	220	17.4	440	24.5	800	33.1
12	4.1	34	6.8	80	10.5	230	17.7	450	24.8	820	33.5
13	4.2	35	6.9	85	10.8	240	18.1	460	25.1	840	33.9
14	4.4	36	7.0	90	11.1	250	18.5	470	25.4	860	34.3
15	4.5	37	7.1	95	11.4	260	18.9	480	25.6	880	34.7
16	4.7	38	7.2	100	11.7	270	19.2	490	25.9	900	35.1
17	4.8	39	7.3	105	12.0	280	19.6	500	26.2	920	35.5
18	5.0	40	7.4	110	12.3	290	19.9	520	26.7	940	35.9
19	5.1	41	7.5	115	12.5	300	20.3	540	27.2	960	36.3
20	5.2	42	7.6	120	12.8	310	20.6	560	27.7	980	36.6
21	5.4	43	7.7	125	13.1	320	20.9	580	28.2	1000	37.0
22	5.5	44	7.8	130	13.3	330	21.3				

Explanation.—The line of sight connecting the observer and a distant object is at maximum length tangent with the spherical surface of the sea. It is from this point of tangency that the tabular distances are calculated. The table must accordingly be entered twice to obtain the actual geographic visibility of the object—first with the height of the object, and second with the height of the observer’s eye—and the two figures so obtained must be added. Thus, if it is desired to find the maximum distance

at which a powerful light may be seen from the bridge of a vessel where the height of eye of the observer is 55 feet above the sea, from the table:

Nautical Miles	
55 feet height of observer (visible)	8.7
200 feet height of light(visible).	<u>16.5</u>
Distance visible	25.2

CONVERSION TABLE — FEET TO WHOLE METERS

(FOR HEIGHTS OF LIGHTS)

1 foot = 0.3048 meter

Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters
		40	12	80	24	120	37	160	49	200	61
1	0	41	12	81	25	121	37	161	49	300	91
2	1	42	13	82	25	122	37	162	49	400	122
3	1	43	13	83	25	123	37	163	50	500	152
4	1	44	13	84	26	124	38	164	50	600	183
5	2	45	14	85	26	125	38	165	50	700	213
6	2	46	14	86	26	126	38	166	51	800	244
7	2	47	14	87	27	127	39	167	51	900	274
8	2	48	15	88	27	128	39	168	51	1000	305
9	3	49	15	89	27	129	39	169	52		
10	3	50	15	90	27	130	40	170	52		
11	3	51	16	91	28	131	40	171	52		
12	4	52	16	92	28	132	40	172	52		
13	4	53	16	93	28	133	41	173	53		
14	4	54	16	94	29	134	41	174	53		
15	5	55	17	95	29	135	41	175	53		
16	5	56	17	96	29	136	41	176	54		
17	5	57	17	97	30	137	42	177	54		
18	5	58	18	98	30	138	42	178	54		
19	6	59	18	99	30	139	42	179	55		
20	6	60	18	100	30	140	43	180	55		
21	6	61	19	101	31	141	43	181	55		
22	7	62	19	102	31	142	43	182	55		
23	7	63	19	103	31	143	44	183	56		
24	7	64	20	104	32	144	44	184	56		
25	8	65	20	105	32	145	44	185	56		
26	8	66	20	106	32	146	45	186	57		
27	8	67	20	107	33	147	45	187	57		
28	9	68	21	108	33	148	45	188	57		
29	9	69	21	109	33	149	45	189	58		
30	9	70	21	110	34	150	46	190	58		
31	9	71	22	111	34	151	46	191	58		
32	10	72	22	112	34	152	46	192	59		
33	10	73	22	113	34	153	47	193	59		
34	10	74	23	114	35	154	47	194	59		
35	11	75	23	115	35	155	47	195	59		
36	11	76	23	116	35	156	48	196	60		
37	11	77	23	117	36	157	48	197	60		
38	12	78	24	118	36	158	48	198	60		
39	12	79	24	119	36	159	48	199	61		

RADIOBEACONS

RADIO DIRECTION-FINDER SETS ON SHIPS

Radio direction-finder sets on board ship enable bearings to be taken of transmissions from other ships, aircraft, shore stations, marine radiobeacons, and the coastal stations of the radio communication network. When located in the pilothouse or on the navigating bridge, the direction-finder enables the navigating officer to obtain bearings himself without reference to others and without delay.

Due to the great value of radio bearings, particularly when visibility is poor and when celestial observations cannot be obtained, the radio direction-finder on board ship deserves the same consideration and care as are given to the sextant and compass. It has the following characteristics in common with the two latter navigational instruments: the readings are subject to certain errors; these errors may be reduced by skillful and intelligent operation; the dangers of using erroneous readings may be greatly reduced by the intelligence and good judgment of the mariner. In order to acquire experienced judgment in the operation of the instrument, it is essential that the mariner use it as much as practicable.

Troubles from interference and weak signals are greatly reduced by the use of direction-finders of proper selectivity. The bearings must be corrected for radio deviation as shown by the calibration curve of the set.

Types of Radiobeacons

1. Directional radiobeacons which transmit radio waves in beams along fixed bearings.
2. Rotating radiobeacons by which a beam of radio waves is resolved in azimuth in a manner similar to the beam of light sent out by rotating lights.
3. Circular radiobeacons which send out waves of approximately uniform strength in all directions so that ships may take radio bearings of them by means of the ship's radio direction-finder sets. This is the most common type of radiobeacon.

To extend the usefulness of marine radiobeacons to ships and aircraft employing automatic radio direction finders, U.S. marine radiobeacons on the Atlantic and Pacific Coasts and Great Lakes have been modified to transmit a continuous carrier signal during the entire radiobeacon operating period with keyed modulation providing the characteristic signal. Unless a beat frequency oscillator is installed, the continuous carrier signals are not audible to the operator of an aural null direction finder. A ten second dash has been included in the characteristic of these radiobeacons, to enable the navigator using a conventional aural null direction finder to refine his bearing. Vessels with direction finders will be able to use the United States

radiobeacons located on the Atlantic and Pacific Coasts, and Great Lakes at any time in their assigned sequence.

Aeronautical Radio Aids

Aeronautical radiobeacons and radio ranges are often used by navigators of marine craft in the same manner as marine radiobeacons are used for determining lines of positions. They are particularly useful along coasts where marine broadcast coverage is inadequate. Aeronautical aids situated inland become less trustworthy, so far as ships are concerned, when high land intervenes between them and the coast. They are established to be of primary usefulness to aircraft, and surface craft should use these aids with caution. Only those aeronautical radiobeacons considered to be of use to the mariner have been selected for inclusion in this publication.

AERONAUTICAL RADIOBEACONS. Like marine radiobeacons, these aids broadcast a characteristic signal on a fixed frequency.

NOTE: The assigned frequency of aeronautical radiobeacons is normally from 200 to 415 kHz while the frequency of marine radiobeacons is normally from 285 to 325 kHz. Aeronautical radiobeacons not within the marine radiobeacon band will not normally be listed in this publication.

The range signals are interrupted at intervals to permit broadcast of the identification signal. In aviation publications the range leg bearings are most often given as magnetic bearings toward the station; in this publication they are given as true bearings toward the station. Unless otherwise stated in the station details, aeronautical radio aids mentioned in this publication transmit continuously.

NOTE: Mariners are advised that changes to and deficiencies in aeronautical radio facilities are not always immediately available to maritime interests and the positions are approximate and listed to the nearest minute only.

Obligations of Administrations Operating Radiobeacons

The obligations of nations and other administrations operating radiobeacons are given in Article 43 of the Radio Regulations of the International Telecommunication Union, Geneva.

Accuracy of Bearings Taken Aboard Ship

No exact rules can be given as to the accuracy to be expected in radio bearings taken by a ship as the accuracy depends to a large extent upon the skill of the ship's operator, the condition of the ship's equipment, and the accu-

racy of the ship's calibration curve. Mariners are urged to obtain this information by taking frequent radio bearings when their ship's position is accurately known and by recording the results. Normally, United States radiobeacons are operated in a group of six, each station in a group using the same frequency and transmitting for one minute in its proper sequence, and operate during all periods, either sequenced or continuously, regardless of weather conditions.

SKILL OF OPERATOR: Skill in the operation of the radio direction-finder can be obtained only by practice and by observing the technical instructions for the set in question. For these reasons the operator should carefully study the instructions issued with the set and should practice taking bearings frequently.

OPERATOR'S ERROR: As the operator obtains bearings by revolving the direction-finder coil until the signal disappears or becomes a minimum, the operator can tell by the size of the arc of silence or of minimum strength approximately how accurately the bearing has been taken. For instance, if the minimum is broad and the residual signal covers about 10° with equal strength, it is doubtful if the bearing can be accurately estimated. On the other hand, if a sharp minimum can be obtained, the operator can determine the bearing to within a half of a degree.

In this connection it should be noted that a properly operating and correctly adjusted direction-finder should in no case produce other than a point or arc of absolute silence. That is, there should be no "residual" signal at the point or arc of observation. The sharpness and completeness of the arc of silence are the best indications of a properly operating direction-finder, and their absence is the best indication of the presence of "night effect."

SUNRISE, SUNSET, OR NIGHT EFFECT: Bearings obtained from about half an hour before sunset to about half an hour after sunrise may be subject to errors due to night effect. On some nights this effect is more pronounced than on others and effect is usually greatest during the hours of twilight. Night effect may be detected by a broadening of the arc of minimum signals and by a fluctuation in the strength of the signals. It may also be indicated by difficulty in obtaining a minimum or by a rapidly shifting minimum. It is sometimes accompanied by an actual shift in the direction of the bearings. If it is essential to obtain a bearing when the night effect is pronounced, several bearings should be taken over a short period of time and an average taken of them.

RADIO DIRECTION FINDER WITHOUT GYRO REPEATERS: The ship's compass must be read as the bearing is taken or an error may be introduced equal to the amount that the ship has yawed in the interval between taking the bearing and reading the compass. Any error in the ship's compass must be applied to the bearing.

RECIPROCAL BEARINGS: In some direction-finder sets, the operator cannot tell from which side of the ship the signals are coming. With these sets the operator shall correct both bearings for their respective deviations and give both corrected bearings to the person who is plotting the bearings on the chart. If the mariner is in doubt as to the side of the ship from which the bearings are coming, this difficulty can usually be solved by having another bearing taken after the ship has steamed a short distance and noting in which direction the bearing is changing.

CALIBRATION: It is essential that the radio direction-finder be accurately calibrated in order that the bearings may be corrected for deviation. While the bearings are being taken, other radio antennas on board must be in the same condition as they were when the calibration was made; movable parts of the ship's superstructure such as booms, davits, wire rigging, etc., must be secured in the positions which they occupied when the direction-finder was calibrated. Unusual cargoes such as large quantities of metals and extraordinary conditions of loading may cause errors.

The direction-finder should be recalibrated after any changes have been made in the set or its surroundings (this includes alterations to or changes in position of antennas, wire rigging, boat davits, booms, etc.) whenever there is reason to believe that the previous calibration has become inaccurate, and also at periodic intervals.

The calibration must be made on approximately the same frequency or frequencies as will be used to take bearings because the deviation for several frequencies is not likely to be the same. It is believed that one calibration curve is satisfactory for the normal radiobeacon frequency (285 to 325 kHz), but the instructions issued by the manufacturer of the particular direction-finder in question should be studied in this connection.

To facilitate the calibration of ship's direction-finders, special arrangements have been made by some services for operation of their radiobeacons at times other than their published schedules. Information as to the arrangements made by the United States stations in this respect is as follows:

Sequenced radiobeacons cannot broadcast at any time other than on their assigned operating minute for the purpose of enabling vessels to calibrate their radio direction finders without causing interference. Special radio direction finder calibration transmitters of short range are operated at certain localities to provide continuous calibration service.

The position given for the antenna is the point from which the radiobeacon signal is emitted.

If it is not practicable to determine the time of calibration sufficiently in advance to contact the district commander, request may be made directly to the stations by means of telephone, telegraph, or a whistle signal consisting of three long blasts; followed by three short blasts.

This whistle signal is to be repeated until it is acknowledged by the station through the starting of the transmitter. The same group of signals should be sounded at the termination of calibration.

The work of the station personnel is not confined to standing watch and there may be times when the whistle request for calibration is not immediately heard, due to the noise from operating station machinery, etc. Usually, a repeated signal not too far from the station will attract attention.

“COMPENSATED” RADIO DIRECTION-FINDERS: Many radio direction-finders are “compensated” and no calibration chart or curve is used. Attention is invited to the fact that such compensation is just as vulnerable as the calibration data due to changes made in the set or its surroundings.

CHECK THE CALIBRATION: The calibration of compensation should be checked frequently by taking bearings when the ship’s position is accurately known and the results should be recorded for future reference.

CALIBRATION RADIOBEACONS: In the United States and certain other areas special radiobeacons, primarily for calibrating shipboard direction-finders are in operation. These radiobeacons transmit either continuously during scheduled hours or upon request, as indicated in station details.

COASTAL REFRACTION (OR LAND EFFECT): Errors may occur in bearings taken by ships so located that the line of observation to the radiobeacon passes over land or along the shore line. However, many observations seem to indicate that such errors are negligible when the observing vessel is well out from the shore. Bearings secured entirely over water areas are to be preferred since “land effect” is thus eliminated. Bearings taken at sunset and sunrise are likely to be erratic, and observations taken at these hours should therefore be repeated and checked as may be feasible.

PROGRAM BROADCASTING STATIONS: Before taking bearings on a station broadcasting entertainment programs a mariner should consider that frequency may differ widely from the frequency for which the set is calibrated, that the published location of the station may be that of its studio and not that of its transmitting antenna, that if the station is synchronized with other stations it may be impossible to tell on which station the bearing was taken, and that as the majority of these stations are inland, the coastal refraction may be excessive.

Station Details

FREQUENCY: The frequency listed is that used by the station in transmitting its “Characteristic Signal.” Calling frequencies, if any, will be given under “remarks.”

RANGE: In this book the range of radiobeacons is only approximate and is given merely to assist mariners in

planning their voyages and to inform them of several radiobeacons they will probably hear first. Frequently, when conditions for radio reception are good, radiobeacons may be heard at greater distances than indicated. The mariner who is at a greater distance than the range indicated should attempt to obtain bearings when necessary, and not assume that the radiobeacon will be unheard beyond its indicated range.

GROUP SEQUENCE: Selected radiobeacons are grouped together on the same operating frequency and are assigned a specific sequence of transmission within this group. This reduces station interference and unnecessary returning.

ANTENNA LEAD-IN: Included in the details of many radiobeacons located at or near light stations is a statement of the distance and bearing of the radiobeacon transmitting antenna from the light tower. Use should be made of this information when calibrating the ship’s direction-finding equipment by means of simultaneous visual and radio bearings.

Plotting Radio Bearings

The procedure for converting radio (great circle) bearings as received by direction-finder equipment aboard ship is identical with that used in converting radio bearings supplied by direction-finder stations on shore and is described in section 100E “Plotting Radio Bearings” of Pub. 117, Radio Navigational Aids.

Synchronization for Distance Finding

At some radiobeacon stations, sound signals, either submarine or air or both, are synchronized with the radiobeacon signals for distance finding. Ordinarily, the sound signals do not operate during the transmission period of the radio signal in clear weather. The methods in use employ, as a rule, distinctive signals to indicate the point of synchronization, and make use, for determining distance, of the lag of signals traveling through air or water as compared to the practically instantaneous travel of the radio signals.

In the case of some sound signals, a series of short radio dashes is transmitted at intervals following the synchronizing point, so that by counting the number of such short dashes heard after the distinctive radio signal and before hearing the corresponding distinctive sound signal, the observer obtains the distance, in miles equal to the number of dashes counted, from the sound signal apparatus unless stated otherwise.

In the case of other signals, the observer notes the number of seconds intervening between the reception of the distinctive radio signal and the corresponding sound signal and uses a factor to determine distances in miles as follows:

Submarine signals—multiply the observed numbers of seconds by 0.8 or divide by 1.25 distance in nautical miles.

Air signals—multiply the observed number of seconds by 0.18 or divide by 5.5. For more approximate results or for statute miles, multiply the observed number of seconds by 0.2 or divide by 5.

Tables for finding distance

Interval in seconds	Distances in nautical miles from sound signal source	
	Air	Submarine
1	0.18	0.8
2	0.36	1.6
3	0.54	2.4
4	0.72	3.2
5	0.90	4.0
6	1.08	4.8
7	1.26	5.6
8	1.44	6.4
9	1.62	7.2
10	1.80	8.0
20	3.60	16.0
30	5.40	24.0
40	7.20	
50	9.00	
60	10.80	

REMARKS: Average speed of sound travel in water is 1 nautical mile in 11/4 seconds.

The speed of sound travel is influenced by a number of conditions making it impracticable to state a factor that will give exact results under all conditions. The results obtained by the methods described may be accepted as being accurate to within 10 percent of the distance.

Methods of synchronizing the signals vary and are described or illustrated in official announcements regarding them. It is essential to note carefully the point of synchronization used so that no error will be made through taking time on the wrong signal or the wrong part of it.

In observing air signals it is usually sufficient to use a watch with second hand, although a stop watch is helpful. For submarine signals where the interval is shorter and a time error correspondingly more important, it is essential that a stop watch or other timing device be used. Where the radiobeacon and submarine signals are not received at the same point on the vessel, means of instant communication between two observers should be available or synchronized stop watches provided for each.

Ships not equipped with a DF receiver can take advantage of the distance-finding feature of a radiobeacon station, if equipped with a radio receiver capable of receiving

the transmission. In the case of obtaining distance from a radiobeacon station which is synchronized with a submarine sound signal, the ship must also be equipped with a device for picking up submarine sound signals.

Rotating Loop Radiobeacon

MODE OF OPERATION:

(1) The radiobeacon consists of a rotating loop transmitter having directional properties by which an observer in a ship can obtain his bearing from the beacon without the use of a direction-finder. Any ordinary receiving set capable of being tuned to the radiobeacon's frequency may be used. The only other equipment required is a reliable stop watch or chronograph with a sweep second hand. Stop watches and clocks with dials graduated in degrees may be used, from which bearings may be read directly without any mathematical calculation.

(2) During each revolution of the beacon, the signals received by the observer will rise and fall in intensity, passing through a maximum and a minimum twice each minute. The positions of minimum intensity, which occur at intervals of thirty seconds from one another, are very sharp and can be accurately observed. These are, therefore, used for navigation purposes.

The beacon may be regarded as having a line or beam of minimum intensity which rotates at a uniform speed of 360° in 1 minute (i.e. 6° in 1 second) based on the true meridian as starting point. Therefore, if the observer can (a) identify the beacon and (b) measure the number of seconds which this minimum beam takes to reach their position starting from the true meridian, this number multiplied by six will give their true bearing from the beacon or its reciprocal.

The signals which enable the beacon to be identified and the bearing to be calculated are described in the following paragraphs:

Signals transmitted by the beacon: Each transmission from the beacon lasts for 4 minutes; the beacon is then silent for 8 minutes, and automatically starts again at the end of the silent period. Each transmission consists of two parts: (a) the identification signal of the station set at a slow speed for the first minute, commencing when the minimum beam is true east and west and followed by a long dash of about 12 seconds duration; (b) the signal group commencing when the minimum beam is approaching the true meridian, and consisting of (i) the north starting signal, which is the letter V followed by two dots (•• — ••); (ii) a long dash of about 12 seconds duration; (iii) the east starting signal, which is the letter B followed by two dots (— •• ••); and (iv) a long dash for about 42 seconds.

The navigation signals are repeated during the remainder of the transmission and signals cease when the minimum beam is in the east and west position.

INSTRUCTIONS FOR TAKING BEARINGS

- (i) Set stop watch to zero.
- (ii) Listen for identification signal.
- (iii) When the first long dash begins (at A on diagram) get ready for the "north signal."
- (iv) After the "north signal," start stop watch exactly at beginning of long dash (see "00 seconds" on diagram) counting one-two with the two preceding dots, and 3 for the start of the stop watch.
- (v) Listen for minimum and note its exact time by stop watch.

NOTE: If stop watch is graduated in degrees note exact angle, which is the bearing.

- (vi) Multiply number of seconds by 6° for bearing.
- (vii) Determine whether bearing is direct or reciprocal.
- (viii) If the "north signal" is faint, use the "east signal," but add 090° to final bearing.

Particular attention is directed to the following:

- (a) The stop watch must be started exactly at the beginning of the long dash for each series of observations.
- (b) The time of occurrence of the minimum must be read to the nearest fifth of a second.
- (c) The bearing obtained will be either the direct bearing or its reciprocal.
- (d) When using the east signal, add 090° to obtain bearings from true north.
- (e) The beacon is set up on the true meridian, and no correction is required for magnetic variation.
- (f) No quadrantal error arises, and no corrections are necessary except as in (c) and (d) above.

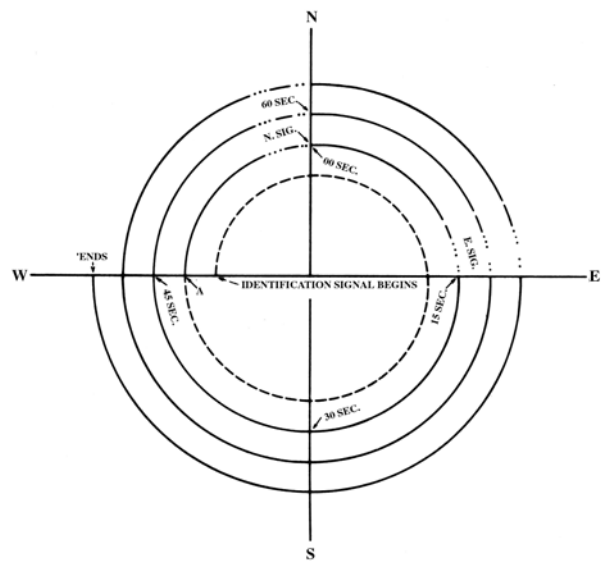
(A correction must, of course, be made for convergency; this should be applied as if the beacon were a shore radio direction-finder station.)

(g) A comparatively large error of bearing may occur due to inaccuracy in the stop watch, and to obviate this,

observers or navigators should check their stop watches on the beacon station before taking bearings. This can easily be done by checking the time by stop watch of the complete revolution of the beacon transmission. Any error found can then be allowed for.

Caution

Due to the many factors which enter into the transmission and reception of radio signals, a mariner cannot practically estimate its distance from a radiobeacon either by the strength of the signals received or by the time at which the signals were first heard. Mariners should give this fact careful consideration in approaching radiobeacons. A diagram showing the signals used is given below.



ROTATING RADIOBEACON
SIGNAL DIAGRAM

DESCRIPTION

(Radiobeacons)

Information is tabulated in eight columns as follows:

column 1: The number assigned to each radiobeacon by this Agency.

column 2: Name and/or descriptive location of the radiobeacon.

column 3: Approximate latitude and longitude of the radiobeacon to the nearest tenth of a minute.

column 4: Radiobeacon characteristics. Included in this column are the Morse code, period in seconds, length of transmission and silence time.

column 5: Range (approximate) in nautical miles.

column 6: Group sequence. Selected radiobeacons are grouped together on the same operating frequency and are assigned a specific sequence of transmission within this group. This reduces station interference and unnecessary return.

column 7: Frequency (given in kilohertz) and amplitude modulation (see Table Symbols).

column 8: Remarks. Transmission synchronization, type of radiobeacon (marine, aero, etc.), calibration, antenna lead-in, calling frequencies, distance-finding information, service charges, hours of transmission, directional signals and other pertinent information.

ABBREVIATIONS

aero aeronautical
tr transmission
si silence
s. seconds
(4) 4 times
Transmission is continuous unless otherwise stated.

TABLE OF SYMBOLS

LEGEND

- (1) Type of modulation of the main carrier.
- (2) Nature of signal(s) modulating the main carrier.
- (3) Type of “information” to be transmitted. “Information” does not include information of a constant, unvarying nature such as provided by standard frequency emissions, continuous wave and pulse radars, etc.

AMPLITUDE MODULATION:

N0N

- (1) Emission of an unmodulated carrier.
- (2) No modulating signal.
- (3) No information transmitted.

A1A

- (1) Double-sideband.
- (2) Single channel containing quantized or digital information without the use of a modulating subcarrier.
- (3) Telegraphy (for aural reception).

A2A

- (1) Double-sideband.
- (2) Single channel containing quantized or digital information with the use of a modulating subcarrier.
- (3) Telegraphy (for aural reception).

A3E

- (1) Double-sideband.
- (2) Single channel containing analog information.
- (3) Telephony (including sound broadcasting).

R3E

- (1) Single-sideband (reduced or variable level carrier).
- (2) Single channel containing analog information.
- (3) Telephony (including sound broadcasting).

B8E

- (1) Independent sidebands.
- (2) Two or more channels containing analog information.
- (3) Telephony (including sound broadcasting).

H2A

- (1) Single-sideband (full carrier).
- (2) Single channel containing quantized or digital information with the use of a modulating subcarrier.
- (3) Telegraphy (for aural reception).

H3E

- (1) Single-sideband (full carrier).
- (2) Single channel containing analog information.
- (3) Telephony (including sound broadcasting).

J3E

- (1) Single-sideband (suppressed carrier).
- (2) Single channel containing analog information.
- (3) Telephony (including sound broadcasting).

A3C

- (1) Double-sideband.
- (2) Single channel containing analog information.
- (3) Facsimile.

A3F

- (1) Double-sideband.
- (2) Single channel containing analog information.
- (3) Television (video).

B7D

- (1) Independent sidebands.
- (2) Two or more channels containing quantized or digital information.
- (3) Data transmissions, telemetry, telecommand.

Note: With 6 kHz. EDW operation in the bands below 30 MHz allocated exclusively for Maritime Mobile Service (FC, MO).

FREQUENCY (OR PHASE) MODULATION:**F1B**

- (1) Frequency modulation.
- (2) Single channel containing quantized or digital information without the use of a modulating subcarrier.
- (3) Telegraphy (for automatic reception).

F2A

- (1) Frequency modulation.
- (2) Single channel containing quantized or digital information with the use of a modulating subcarrier.
- (3) Telegraphy (for aural reception).

F3E

- (1) Frequency modulation.
- (2) Single channel containing analog information.
- (3) Telephony (including sound broadcasting).

F3C

- (1) Frequency modulation.
- (2) Single channel containing analog information.
- (3) Facsimile.

F3F

- (1) Frequency modulation.
- (2) Single channel containing analog information.
- (3) Television (video).

P1B

- (1) Sequence of unmodulated pulses.
- (2) Single channel containing quantized or digital information without the use of a modulating subcarrier.
- (3) Telegraphy (for automatic reception).

Pulse Modulation:

GHz = gigahertz

kHz = kilohertz

MHz = megahertz

DIFFERENTIAL GLOBAL POSITIONING SYSTEM (DGPS)

Differential Global Positioning System (DGPS) is a radio-based navigation system that eliminates errors in a GPS receiver that will allow the accuracy level to be significantly enhanced. DGPS accuracy can be 10 meters or better, compared with 100 meters or better with GPS. This is possible by placing a high-performance GPS receiver (reference station) at a known location. Because the receiver knows its exact location, it can determine the errors in the satellite signals. The satellite measures the ranges to each satellite using the signals received and comparing these measured ranges to the actual ranges calculated from its known position. The total error is the difference between the measured and calculated range. The error data for each tracked satellite is formatted into a correction message and transmitted to GPS users. The correction message format follows the standard established by the Radio Technical Commission for Maritime Services, Special Committee 104 (RTCM-SC104). These differential corrections are then applied to the GPS calculations, thus removing most of the satellite signal error and improving accuracy.

Terms for understanding DGPS:

DGPS Correction Receiver

A DGPS correction receiver decodes the signals received from a reference site. Data is formatted into a serial RTCM SC104 data stream and provided to the remote GPS receiver. There are many types of DGPS correction receivers.

GPS Receivers

The GPS receiver measures ranges to each satellite, but

before the measurements are used to calculate position, corrections received from the DGPS receiver are applied to the measurements. The position is then calculated using the corrected range measurements providing vastly increased accuracy.

Modulator

Depending on the transmission format, the modulator encodes the data as necessary for transmission.

Reference Station

The reference station GPS receiver knows exactly the position of its antenna, therefore it knows what each satellite range measurement should be. It measures the ranges to each satellite using the received signals just as if it was going to calculate position. The measured ranges are subtracted from the known ranges and the result is range error. The range error values for each satellite are formatted into messages in the RTCM SC104 format and transmitted continuously.

Transmitter

The transmitter is basically a power amplifier which is connected to an antenna system. The modulated carrier is amplified and driven to the antenna. In the United States Coast Guard system, the transmitter is 250-1000 Watts and operates in the 300Khz frequency range. The amplified signal is radiated via the antenna to remote DGPS receivers for real-time position correction.

DESCRIPTION

(Differential GPS Stations)

Information is tabulated in eight columns as follows:

column 1: The number assigned to each DGPS Station by this Agency.

column 2: Name of the DGPS Station

column 3: Approximate latitude and longitude of the DGPS Transmitting Station to the nearest tenth of a minute.

column 4: Station ID which can be found in the IALA Master list. No two stations have the same ID. **T** denotes the Transmitting Station, **R** denotes the Reference Station.

column 5: Range (approximate) in nautical miles.

column 6: Frequency in kHz.

column 7: Transfer Rate which equates to the baud rate and will be published as a whole number without any additional abbreviations such as "bps" (bits per second)

column 8: Remarks. This column contains information about the reference stations and messages types transmitted. GPS Message Type Numbers are 1, 3, 4, 5, 6, 7, 9, 15 and 16. (*Refer to message type descriptions below*)

GPS MESSAGE TYPE NUMBER INDICATORS

1	Differential GNSS corrections (full set of satellites)
3	Reference stations parameters
4	Datum used
5	Constellation health
6	Null frame (no information)
7	Radiobeacons Almanacs
9	Sub-set differential GNSS corrections
15	Ionospheric corrections
16	Special messages

Section 1

Sakhalin, Hokkaido and Kuril Islands

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SAKHALIN							
2 M 7806	Mys Anastasii.	46° 01.7' N 142° 10.5' E	L.FI.W. period 6s	161 49	8	White wooden pyramidal tower; 36.	
4 M 7804	Ostrov Kamen 'Opasnosti (Nijo Gan).	45° 47.0' N 142° 14.0' E	Fl.W. period 7.5s	62 19	13	White round concrete tower; 59.	Radiobeacon.
8 M 7802	Mys Kril'on (Nishi Notoro Misaki).	45° 53.8' N 142° 04.7' E	Al.W.R. period 10s	156 48	19	Red octagonal stone tower; 48.	Visible 208° -134° . Reserve light Iso.W. 10s 18M. Horn: Mo.(A) ev. 20s. Signal station. Radiobeacon.
12 M 7800	Mys Kuznetsova.	46° 02.7' N 141° 55.0' E	Fl.W. period 8s	259 79	18	Square concrete tower, black and white bands; 26.	Visible 330° -172° . Reserve light range 9M.
16 M 7794	Ostrov Moneron.	46° 14.6' N 141° 15.8' E	Fl.(2)W. period 15s	374 114	26	Octagonal tower, black and white bands; 34.	Visible 161° -049° . Reserve light Iso.W. 3s 20M. Radiobeacon.
20 M 7796	Pereput'e.	46° 17.4' N 141° 53.5' E	Fl.W. period 5s	125 38	15	Round metal tower with platform, upper part white, lower part black; 16.	Radar reflector.
36 M 7788	Mys Lopatino (Kenushi Misaki).	46° 36.0' N 141° 49.0' E	Fl.(2)W. period 10s	220 67	21	White octagonal concrete tower, black bands; 56.	Visible 002° -210° . Reserve light range 10M.
NEVEL'SK:							
40 M 7776	-Breakwater, extremity.	46° 39.9' N 141° 51.0' E	Fl.R. period 3s	43 13	3	White pyramidal tower; 33.	
44 M 7778	-Outer Range, front.	46° 40.0' N 141° 52.0' E	F.G.	135 41	1	White mast, white triangular daymark, black stripe; 33.	Visible on range line only.
48 M 7778.1	--Rear, about 38 meters 078° 54' from front.	46° 40.0' N 141° 51.9' E	F.G.	148 45	1	White mast, white triangular daymark, black stripe; 26.	Visible on range line only.
PORT KHOLMSK:							
56 M 7746	-Kholmsk.	47° 01.8' N 142° 02.3' E	Fl.(3)W. period 14.1s fl. 0.5s, ec. 1.8s fl. 0.5s, ec. 1.8s fl. 0.5s, ec. 9s	220 67	20	White round concrete tower, red bands; 93.	Visible 355° -186° . Reserve light Iso.W. 8s 12M. Radiobeacon.
60 M 7752	-Entrance Range, front.	47° 03.0' N 142° 03.0' E	F.R.	207 63	12	Octagonal lantern on building; 16.	Visible on range line only. Reserve light F.R. 7M.
64 M 7752.1	--Rear, 185 meters 137° 48' from front	47° 02.6' N 142° 02.4' E	F.R.	295 90	12	White octagonal stone tower, black stripe; 33.	Visible on range line only. Reserve light F.R. 7M.
68 M 7753	-Kholmsk Range, front.	47° 03.5' N 142° 03.5' E	Iso.G. period 4s	98 30	3	White trapezoidal wooden structure, black median stripe; 15.	Visible on range line only.
72 M 7753.1	--Rear, 154 meters 108° 06' from front.	47° 03.5' N 142° 03.6' E	F.G.	130 40	3	Metal framework tower, white trapezoidal daymark, black stripe; 26.	Visible on range line only.
76 M 7748	-N. breakwater, head.	47° 03.7' N 142° 03.0' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	49 15	2	Red round concrete structure; 39.	
80 M 7750	-S. breakwater, head.	47° 03.0' N 142° 02.8' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	39 12	1	Green metal framework tower; 30.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SAKHALIN							
84 M 7754	-Port Ukhadnyye, N. breakwater, head.	47° 03.6' N 142° 02.7' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	36 11	1	Green round metal column; 26.	
92 M 7754.3	--Detached breakwater, S. end.	47° 03.7' N 142° 02.7' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	36 11	2	Red round metal column; 26.	
96 M 7754.5	--Basin Entrance, E. side.	47° 03.5' N 142° 03.1' E	Oc.W.R. period 6s	23 7	W. 5 R. 2	Red round metal column; 26.	W. 279° -219° , R.-279° .
100 M 7738	Mys Slepikovskogo (Konotoro Misaki).	47° 18.2' N 141° 58.2' E	Fl.W. period 12s fl. 1.5s, ec. 10.5s	98 30	16	Red round concrete tower; 92.	Visible 343° -177° . F.W. fishing light shown at Sadovniki. Reserve light L.Fl.W. 12s 10M.
104 M 7716	Mys Lamanon (Chirai Misaki).	48° 46.7' N 141° 51.2' E	Fl.W. period 20s fl. 1s, ec. 19s	233 71	22	White round concrete tower, black bands; 85.	Visible 353° -215° . Reserve light Fl.W. 10s 10M. Radiobeacon.
UGLEGORSK (ESUTORU):							
108 M 7713	-Range, front.	49° 04.2' N 142° 01.9' E	Iso.R. period 6s	157 48	16	White octagonal stone tower, black stripe; 37.	Reserve light range 6M.
112 M 7713.1	--Rear, 256 meters 159° 06' from front.	49° 04.0' N 142° 02.2' E	F.R.	223 68	16	White octagonal stone structure, black median stripe; 56.	Reserve light range 6M.
116 M 7715.2	-South Harbor, S. mole.	49° 03.5' N 142° 01.9' E	Fl.G. period 3s	29 9	1	Green rectangular metal tower; 20.	
120 M 7715	--N. mole.	49° 03.5' N 142° 01.6' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	32 10	2	Red concrete round structure; 23.	
124 M 7714	-W. breakwater, head.	49° 03.5' N 142° 01.9' E	Fl.R. period 3s	33 10	2	Red metal column; 26.	
128 M 7714.2	-E. mole, head.	49° 04.6' N 142° 01.8' E	Fl.G. period 3s	33 10	1	Green framework square pyramid; 26.	
132 M 7711.5	-Uglegorsk.	49° 05.0' N 142° 02.7' E	Iso.W. period 6s	161 49	18	White stone building, white octagonal tower; 46.	Radiobeacon.
136 M 7712	-Jetty, head.	49° 05.9' N 142° 02.1' E	Fl.G. period 2s fl. 0.5s, ec. 1.5s	16 5	1	Green square framework tower; 3.	
140 M 7711	Mys Gavrilova.	49° 09.1' N 142° 02.4' E	Oc.R. period 6s	236 72	11	White octagonal stone tower, red band; 33.	Visible 052° -206° . Reserve light range 4M.
148 M 7709.4	Shakhtersk Range, front.	49° 10.0' N 142° 04.0' E	Iso.R. period 3s	49 15	12	White octagonal concrete tower, black stripes, 33.	Reserve light Iso.R. 3s 6M.
152 M 7709.5	-Rear, about 260 meters 119° 54' from front.	49° 09.6' N 142° 03.9' E	Iso.R. period 3s	85 26	12	Quadrangular metal framework tower, white rectangular daymark, black stripe; 53.	Reserve light Fl.R. 6M.
156 M 7709	-S. mole, head.	49° 09.7' N 142° 03.4' E	Fl.G. period 3s	33 10	1	Green concrete framework tower; 26.	Extinguished Jan. 11 to Mar. 20.
160 M 7708	Mys Nizmenny.	49° 11.5' N 142° 03.9' E	Iso.W. period 3s	72 22	11	White octagonal masonry tower; 26.	Visible 000° -213° . Reserve light Iso.W. 3s 7M.
161 M 7707	Boshnyakovo.	49° 38.3' N 142° 09.1' E	L.Fl.R. period 6s		16		
162 M 7706	Mys Korsakova.	50° 01.5' N 142° 08.2' E	Fl.W. period 6s		16		
162.3 M 7810	Kirillovo.	46° 26.6' N 142° 20.5' E	L.Fl.W. period 5s		9		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SAKHALIN							
PORT KORSAKOV:							
162.4 M 7828	-Approach.	46° 39.3' N 142° 44.9' E	L.FI.W. period 6s		9		
162.5 M 7831	-Inner Road, S. breakwater, head.	46° 37.2' N 142° 45.9' E	Iso.G. period 6s		7		Inner breakwaters marked by FI.G., FI.R. and FI.Y. lights.
162.7 M 7832	-On hill above harbor.	46° 37.7' N 142° 46.1' E	F.G.		5		N. and S. basins marked by range lights.
164 M 7830	Mys Tomari-Aniva.	46° 36.7' N 142° 47.7' E	FI.(2)W. period 10s fl. 0.2s, ec. 2.2s fl. 0.3s, ec. 7.3s	367 112	25	Black octagonal concrete tower, white band; 49.	Reserve light FI.W. 6s 12M. Radiobeacon.
165 M 7840	Novikovo.	46° 21.2' N 143° 21.9' E	L.FI.W. period 5s		17		N. and S. breakwater heads marked by FI.R. and FI.G. lights.
166 M 7841.5	Mramornyy.	46° 17.8' N 143° 23.2' E	FI.R. period 5s		4		
168 M 7842	Mys Aniva.	46° 01.0' N 143° 25.0' E	FI.(2)W. period 24s fl. 1s, ec. 5s fl. 1s, ec. 17s	131 40	17	Black round concrete structure, white bands; 102.	Visible 206° -166° . Shown Apr. 15 to Jan. 15. Reserve light FI.W. 3s 9M. Radiobeacon.
	RACON		AW(• - • - -) period 30s		20		Azimuth coverage 030° - 340° .
170 M 7846	Mys Levonorna.	46° 22.3' N 143° 36.9' E	FI.W. period 6s	197 60	9	White tower; 10.	Visible 180° -203° . Radar reflector.
172 M 7848	Mys Svobodnyy.	46° 50.8' N 143° 26.3' E	FI.W. period 10s	141 43	18	Round concrete tower, black and white bands; 74.	Visible 043° -293° . Seasonal. Radiobeacon 9 miles W.
172.5 M 7847	Zaliv Mordvinova.	46° 49.4' N 143° 13.1' E	Iso.W. period 6s		12		Radiobeacon.
174 M 7870	Mys Goryanskiy.	48° 57.1' N 142° 58.9' E	FI.W. period 3s fl. 1s, ec. 2s	397 121	22	White concrete tower; 56.	Visible 188° -341° .
180 M 7875	Poronaysk.	49° 13.0' N 143° 08.0' E	FI.(2)W. period 15s	108 33	16	Concrete octagonal tower, black and white bands; 105.	Reserve light FI.W. 3s 12M. Radiobeacon.
184 M 7876	Poronaysk (Shikuka) Anchorage Range, front.	49° 13.6' N 143° 07.1' E	F.R. (neon)	41 12	11	Metal framework tower, triangular topmark; 41.	Reserve light F.R. 2M.
188 M 7876.1	-Rear, about 201 meters 307° 42' from front.	49° 13.7' N 143° 06.9' E	F.R. (neon)	69 21	12	Metal framework tower, triangular topmark; 69.	Reserve light F.R. 2M.
192 M 7885	Mys Bellinsgauzena.	49° 30.0' N 144° 14.2' E	FI.W. period 6s fl. 1s, ec. 5s	138 42	15	Metal tower, white rectangular daymark; 41.	
193 M 7885.1	Mys Nizkig.	50° 00.9' N 143° 59.8' E	FI.W. period 8s		14		
194 M 7890	Mys Ratmanova.	50° 40.5' N 143° 41.6' E	FI.W. period 3s		9		
195 M 7902.5	Pil'tun.	52° 51.0' N 143° 18.5' E	Oc.W. period 7.5s		17		Radiobeacon.
195.5 M 7920	Zaliv Chayvo.	52° 21.5' N 143° 11.4' E	FI.W. period 6s	92 28	15	White octagonal tower; 79.	Reserve light Range 7M. Radiobeacon.
196 M 7884	Mys Terpeniya (KitaShiretoko Misaki).	48° 38.7' N 144° 44.4' E	L.FI.W. period 7.5s fl. 3s, ec. 4.5s	233 71	22	White concrete tower, black bands on white base; 135.	Reserve light L.FI.W. 7.5s 12M. Radiobeacon.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HOKKAIDO-NORTH COAST							
200 <i>M 6895.4</i>	Hamaonisibetsu.	45° 20.8' N 142° 09.1' E	Fl.W. period 5s	85 26	15	Quadrangular concrete structure, red and white bands.	Visible 124° -324° . A F. W. obstruction light illuminates Todo Shima 1800 meters NE.
202 <i>M 6895.2</i>	Tonbetu Ko, breakwater.	45° 08.1' N 142° 23.7' E	Fl.R. period 3s	46 14	9	Red concrete tower; 36.	
204 <i>M 6895</i>	Kamui Misaki.	45° 03.5' N 142° 30.1' E	Fl.W. period 15s	161 49	19	White round concrete structure, black bands; 59.	Visible 135° -320° .
208 <i>M 6894.6</i>	-SE.	45° 02.3' N 142° 30.9' E	Iso.R. period 4s	46 14	7	Red tower; 37.	
212 <i>M 6894.5</i>	Toimaki Ko.	44° 59.6' N 142° 32.6' E	Fl.R. period 3s	26 8	3	Red tower; 16.	
216 <i>M 6894.4</i>	Esasi, detached breakwater.	44° 55.7' N 142° 36.1' E	Fl.(2)R. period 6s	43 13	9	Red round concrete structure; 32.	
224 <i>M 6893.7</i>	Yamausu Ko, E. breakwater.	44° 49.9' N 142° 40.8' E	F.Fl.G. period 6s	39 12	F. 5 Fl 11	White round concrete tower; 31.	
226 <i>M 6893.65</i>	Occhube Ko.	44° 46.9' N 142° 43.3' E	Fl.R. period 3s	36 11	3	Red round concrete tower; 27.	
228 <i>M 6893.6</i>	Otoineppu Misaki.	44° 37.4' N 142° 55.8' E	Iso.W. period 4s	95 29	15	Round concrete structure, red and white bands; 49.	
232 <i>M 6893.5</i>	Motoineppu Ko, N. breakwater, head.	44° 36.4' N 142° 57.0' E	Fl.R. period 3s	49 15	11	Red tower; 36.	
OMU KO:							
236 <i>M 6892</i>	-N. breakwater, head.	44° 35.1' N 142° 57.9' E	Fl.(2)R. period 6s	39 12	9	Red round concrete tower; 36.	
240 <i>M 6893</i>	-S. breakwater.	44° 35.1' N 142° 57.9' E	Oc.G. period 4s lt. 3s, ec. 1s	29 9	10	White round concrete tower; 39.	
244 <i>M 6890</i>	Sawaki Ko, E. detached breakwater.	44° 31.3' N 143° 03.8' E	Iso.G. period 4s	39 12	4	White round concrete tower; 32.	
248 <i>M 6889</i>	Saru Ko, E. breakwater.	44° 25.6' N 143° 14.0' E	F.Fl.R. period 3s	43 13	F. 6 Fl 12	Red round concrete structure; 36.	
252 <i>M 6885</i>	Monbetsu.	44° 21.4' N 143° 20.9' E	Fl.W. period 10s	263 80	23	White tower, red bands; 44.	Visible 099° -318° .
256 <i>M 6886</i>	-N. breakwater, head.	44° 21.0' N 143° 22.1' E	Oc.R. period 6s lt. 5s, ec. 1s	62 19	13	Red tower; 52.	
260 <i>M 6886.4</i>	-Detached breakwater, N. head.	44° 21.0' N 143° 22.0' E	Fl.G. period 3s	39 12	8	White tower; 37.	
262 <i>M 6886.2</i>	-Breakwater.	44° 20.6' N 143° 23.2' E	Fl.R. period 3s	43 13	6	Red tower; 33.	
264 <i>M 6887</i>	-Inner harbor breakwater.	44° 21.1' N 143° 21.6' E	F.Fl.G. period 5s	33 10	F. 6 Fl 11	White tower; 28.	
268 <i>M 6884.4</i>	Saroma Ko, mouth.	44° 10.8' N 143° 47.1' E	F.Fl.R. period 5s	46 14	F. 4 Fl 7	White round concrete tower, red bands; 43.	
270 <i>M 6884.6</i>	-Toetoko Ko.	44° 11.0' N 143° 44.7' E	Fl.G. period 3s	22 7	5	White round concrete tower; 18.	
271	Hamasaroma Ko.	44° 05.6' N 143° 55.7' E	Fl.R. period 3s	20 6	6	Red tower; 18.	
272 <i>M 6884</i>	Tokoro Ko, N. breakwater.	44° 07.6' N 144° 06.3' E	Fl.R. period 3s	49 15	6	Red tower; 31.	
276 <i>M 6883</i>	-E. breakwater.	44° 07.6' N 144° 06.3' E	Iso.G. period 6s	33 10	11	White tower; 25.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HOKKAIDO-NORTH COAST							
280 <i>M 6882</i>	Notoro Misaki.	44° 06.7' N 144° 14.6' E	Fl.W. period 8s	188 57	20	Octagonal concrete tower, black and white bands; 69.	Visible 097° -335° . Seasonal.
288 <i>M 6877</i>	-N. breakwater.	44° 01.5' N 144° 17.4' E	Fl.(2)R. period 6s	49 15	7	Red tower; 43.	
292 <i>M 6878</i>	-E. breakwater.	44° 01.3' N 144° 17.3' E	Iso.G. period 4s	46 14	5	White round concrete tower; 43.	
293 <i>M 6878.5</i>	-Outer breakwater.	44° 00.9' N 144° 18.2' E	Fl.R. period 3s	52 16	5	Red tower; 43.	
294 <i>M 6876</i>	Masuura Ko.	43° 59.4' N 144° 18.0' E	Fl.R. period 3s	46 14	5	Red concrete tower; 36.	
296 <i>M 6866</i>	Utoro.	44° 05.9' N 145° 00.9' E	Fl.W. period 15s	466 142	21	Round concrete structure, black and white bands; 66.	
300 <i>M 6872</i>	-E. breakwater.	44° 04.5' N 144° 59.6' E	Fl.G. period 3s	39 12	7	White round concrete tower; 36.	Seasonal.
304 <i>M 6870</i>	-N. breakwater.	44° 04.6' N 144° 59.6' E	F.Fl.R. period 6s	49 15	F 4 Fl 7	Red round concrete tower; 32.	
308 <i>M 6862</i>	Siretoko Misaki.	44° 20.4' N 145° 20.2' E	Fl.(2)W. period 20s 2 fl. 7s, ec. 13s	335 102	25	Concrete tower, black and white bands; 39.	Visible 106° -344° .
KURIL ISLANDS							
OSTROV SHUMSHU:							
316 <i>M 8041</i>	-Mys Kurbatova.	50° 51.9' N 156° 28.6' E	L.Fl.R. period 7.5s fl. 3s, ec. 4.5s	200 61	16	Red hexagonal concrete tower; 49.	Visible 079° -344° . Reserve light range 4M. Radiobeacon.
320 <i>M 8042</i>	-Mys Chibuynyy.	50° 46.0' N 156° 12.0' E	Fl.W. period 6s fl. 1.5s, ec. 4.5s	344 105	22	White octagonal concrete tower, red bands; 33.	Reserve light range 8M. Radiobeacon.
322	--Oponyy Range, front.	50° 40.7' N 156° 08.7' E	FR.	141 43	10		
322.1	---Rear, 240 meters 194° 36' from front.	50° 40.6' N 156° 08.7' E	FR.	256 78	10		
323 <i>M 8045</i>	Mys Kokina.	50° 11.6' N 155° 44.6' E	Fl.W. period 4s	269 82	9		
OSTROV PARAMUSHIR:							
324 <i>M 8046</i>	-Mys Vasil'yeva.	50° 00.2' N 155° 23.4' E	Fl.(2)W. period 15s fl. 1.5s, ec. 4.5s fl. 3s, ec. 6s	125 38	17	White round concrete tower; 79.	Reserve light Fl.W. 6s 10M. Radiobeacon.
326 <i>M 8047</i>	-Mys Kapustnyy.	50° 03.1' N 155° 13.6' E	Fl.R. period 4s		5		
340 <i>M 8048</i>	Ostrov Toporkov.	48° 04.3' N 153° 17.7' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	174 53	9	Red metal pyramid tower; 13.	Radiobeacon.
344 <i>M 8049</i>	Ostrov Simushir (Shimshiru To).	46° 51.5' N 151° 49.0' E	Fl.W. period 3s fl. 1s, ec. 2s	246 75	8	Wooden pyramid; 10.	
345 <i>M 8049.3</i>	-Mys Otvessnyy.	47° 09.1' N 152° 17.4' E	Fl.W. period 5s		5		
346 <i>M 8049.5</i>	-Mys Sukhina.	46° 49.5' N 151° 52.2' E	Fl.W. period 12s		15		Visible 235° -032° 30' .

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
KURIL ISLANDS							
348 <i>M 8050</i>	Ostrov Urup (Kastrikum).	46° 13.9' N 150° 34.0' E	Oc.W. period 7.5s fl. 4.5s, ec. 3s	167 51	19	Red round tower; 75.	Radiobeacon.
349 <i>M 8050.5</i>	-Mys Chyeryepakha.	46° 13.5' N 150° 20.1' E	Fl.W. period 5s		9		
352 <i>M 8051</i>	Mys Van-der-Linda (Nobunotsu Misaki).	45° 34.6' N 149° 24.3' E	L.Fl.W. period 12s fl. 4.5s, ec. 7.5s	367 112	22	Black octagonal concrete tower, white band; 46.	Visible 272° -211° . Reserve light range 9M. Radiobeacon.
	RACON		D(- • •)		21		
OSTROV URUP:							
354 <i>M 8051.5</i>	-Mys Breskens.	45° 26.0' N 147° 55.4' E	Fl.W. period 3s		9		Radiobeacon.
356 <i>M 8053</i>	-Mys Burevestnik.	44° 55.0' N 147° 39.0' E	Fl.W. period 4s fl. 1s, ec. 3s		8		
360 <i>M 8052</i>	-Kasatka (To Simoye).	45° 00.0' N 147° 44.0' E	Fl.W. period 6s	148 45	8	Red round metal column; 16.	Radar reflector.
OSTROV KUNASHIR:							
364 <i>M 8058</i>	-Mys Lovtsova (Atoiya Misaki).	44° 27.1' N 146° 34.5' E	Iso.W. period 6s	233 71	21	Red round tower, white bands; 105.	Visible 105° -013° Reserve light 12M. Radiobeacon.
366 <i>M 8059</i>	-Mys Yuzhno-Kuril'skiy.	44° 01.2' N 145° 51.6' E	Fl.W. period 6s	36 11	8		Radiobeacon.
368 <i>M 8060</i>	-Mys Veslovskiy (Keramui Saki).	43° 39.5' N 145° 32.6' E	L.Fl.W. period 7s fl. 2s, ec. 5s	46 14	9	Octagonal wooden tower, white and black bands; 40.	Visible 254° -169° . Bell: 12 strokes ev. 60s. Radiobeacon.
372 <i>M 8054</i>	Sikotan Simi.	43° 50.2' N 146° 55.0' E	Fl.W. period 10s fl. 1s, ec. 9s	213 65	21	White round concrete structure; 62.	Reserve light Fl.W. 10s 9M. Radiobeacon.
376 <i>M 8054.5</i>	-Kombuus Saki.	43° 42.2' N 146° 38.6' E	Fl.W. period 3s	207 63	9	Red round metal column, platform on top; 16.	Visible 257° -132° . Radar reflector.
376.5 <i>M 8054.2</i>	-Kamo Shima.	43° 44.0' N 146° 42.6' E	Fl.W. period 4s	213 65	8	White tower; 26.	Radiobeacon.
379 <i>M 8054.6</i>	Malokuril'skiy.	43° 52.5' N 146° 48.8' E	Fl.W. period 5s		22		
380.5 <i>M 8054.7</i>	--W. entrance point.	43° 42.2' N 146° 49.1' E	L.Fl.W. period 6s	224 68	9	Red column; 16.	Radiobeacon.
384 <i>M 8056</i>	Taraka Sima.	43° 37.0' N 146° 21.6' E	Fl.W. period 6s fl. 1.5s, ec. 4.5s	95 29	9	White round concrete tower, red bands; 39.	Radiobeacon.
384.5 <i>M 8056.2</i>	-On W. point.	43° 37.5' N 146° 16.4' E	Fl.W. period 4s	39 12	9	Red column; 16.	Visible 285° -227° . Radar reflector.
385 <i>M 8056.5</i>	Ostrov Zelenyy (Sankaku Zaki).	43° 31.9' N 146° 12.3' E	Fl.W. period 7.5s		9		Radiobeacon.
386 <i>M 8057</i>	Ostrov Yuriy.	43° 26.0' N 146° 04.2' E	Fl.W. period 5s	79 24	9	White round concrete tower, black bands; 39.	
JAPAN-HOKKAIDO-EAST COAST							
388 <i>M 6856</i>	Hutuke Saki.	43° 33.8' N 145° 20.9' E	Iso.W. period 6s	46 14	12	White round concrete tower; 39.	
	RACON				9		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HOKKAIDO-EAST COAST							
392 <i>M 6856.5</i>	Odaito Ko, W.	43° 34.1' N 145° 13.5' E	F.F.I.G. period 3s	43 13	F. 5 Fl 12	Round white concrete structure; 36.	
396 <i>M 6856.7</i>	Sibetu Ko.	43° 40.0' N 145° 08.3' E	Oc.R. period 4s lt. 3s, ec. 1s	52 16	13	Red round concrete structure; 36.	
400 <i>M 6857</i>	Kumbetsu.	43° 47.8' N 145° 03.6' E	Oc.W. period 8s	177 54	20	Round concrete structure, red and white bands; 49.	Visible 199° -343°.
402 <i>M 6857.4</i>	Otazunemappu Ko.	43° 57.6' N 145° 08.4' E	Fl.(2)R. period 5s	27 8	3	Red tower; 16.	
404 <i>M 6857.5</i>	Matunori Ko.	43° 59.2' N 145° 09.9' E	Iso. R. period 6s	46 14	12	Red round concrete structure; 36.	
412 <i>M 6860</i>	-No. 1, S. breakwater.	44° 01.0' N 145° 11.9' E	Fl.G. period 3s	39 12	12	White tower; 33.	
416 <i>M 6861</i>	-No. 2, S. breakwater.	44° 01.1' N 145° 11.9' E	F.F.I.R. period 6s	43 13	F. 6 Fl 12	Red round concrete structure; 33.	
420 <i>M 6861.2</i>	-W. breakwater.	44° 01.3' N 145° 12.2' E	Oc.G. period 4s	39 12	11	White round concrete structure; 36.	
424 <i>M 6858</i>	Rausu.	44° 02.2' N 145° 13.2' E	Fl.W. period 10s	285 87	20	Round concrete structure, red and white bands; 52.	
426 <i>M 6861.4</i>	Okkabake Ko.	44° 04.4' N 145° 14.7' E	Iso.R. period 4s	36 11	11	Red tower; 31.	
428 <i>M 6861.5</i>	Chienbetsu Ko, E. breakwater.	44° 06.0' N 145° 14.8' E	Fl.(2)R. period 6s	46 14	5	Red round concrete tower; 36.	
430 <i>M 6863</i>	-Siretoko, southward.	44° 11.3' N 145° 19.4' E	Oc.R. period 4s lt. 3s, ec. 1s	39 12	11	Red tower; 28.	
NEMURO KO:							
432 <i>M 6852</i>	-S. breakwater, head.	43° 20.3' N 145° 34.4' E	Fl.(2)G. period 6s	36 11	8	White round concrete tower; 26.	
436 <i>M 6850</i>	-N. breakwater, head.	43° 20.9' N 145° 34.7' E	F.F.I.G. period 3s	46 14	F. 5 Fl 10	White tower; 46.	
438 <i>M 6853</i>	-Horomosiri Ko.	43° 17.9' N 145° 31.2' E	Iso.G. period 4s	39 12	11	White tower; 28.	
439 <i>M 6854</i>	-Onneto.	43° 16.3' N 145° 29.7' E	Fl.R. period 3s	26 8	3	Red tower; 16.	
440 <i>M 6847</i>	-Nokkamappu Saki.	43° 23.5' N 145° 39.2' E	Fl.(2)W. period 10s 2 fl. 3s, ec. 7s	69 21	14	Octagonal concrete tower, black and white bands; 36.	
444 <i>M 6845</i>	Onnemoto Ko, E. breakwater, head.	43° 23.3' N 145° 47.1' E	F.F.I.G. period 3s	39 12	F. 5 Fl 11	White round concrete structure; 36.	
JAPAN-HOKKAIDO-SOUTH COAST							
448 <i>M 6840</i>	Nosappu Misaki.	43° 23.1' N 145° 49.0' E	Iso.W.R. period 6s	75 23	14	White tower; 46.	W. 105° -339°, R. -015°. Horn: 3 bl. ev. 40s (bl. 5s, si. 3s, bl. 5s, si. 3s, bl. 5s, si. 19s).
452 <i>M 6842</i>	Kaigara Sima.	43° 23.8' N 145° 51.5' E	Fl.W. period 5s fl. 1.5s, ec. 3.5s	56 17	10	Cylindrical concrete structure; 56.	Bell.
456 <i>M 8057.6</i>	Suisyosima on Dai Zaki (Mys Zorkiy).	43° 25.0' N 145° 53.9' E	Fl.R. period 3s fl. 1s, ec. 2s	39 12	5	Red round tower, white bands; 39.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HOKKAIDO-SOUTH COAST							
456.5 <i>M 8057.8</i>	-On W. point.	43° 27.2' N 145° 56.9' E	L.F.I.W. period 6s	72 22	9	White concrete tower; 39.	
458	Goyomai Ko.	43° 22.3' N 145° 48.5' E	Fl.G. period 3s	33 10	3	White tower; 16.	
460 <i>M 6839</i>	Habomaiosiri Sima.	43° 20.1' N 145° 46.3' E	Fl.W.R. period 5s	72 22	12	White quadrangular concrete tower; 33.	R. 027° -035°, W.-221°, R.-243°, W.-027°.
464 <i>M 6839.4</i>	Habomai Ko, S. breakwater.	43° 20.4' N 145° 45.7' E	Fl.G. period 3s	39 12	3	White round concrete structure; 36.	
468 <i>M 6839.2</i>	-S.	43° 20.4' N 145° 45.8' E	Fl.G. period 4s	43 13	5	White round concrete structure; 36.	
469 <i>M 6838.4</i>	Okinepu Ko.	43° 19.6' N 145° 41.8' E	Oc.R. period 4s	30 9	11	Red tower; 28.	
470	Tomoshiri Ko.	43° 18.9' N 145° 40.2' E	Fl.R. period 3s	26 8	3	Red tower; 16.	
472 <i>M 6836</i>	Hanasaki.	43° 16.7' N 145° 35.3' E	Oc.W.R. period 8s lt. 6s, ec. 2s	102 31	15	Square concrete tower, red and white bands; 33.	R. 217° -257°, W.-282°, R.-295°, W.-323°, R.-010°, W.-148°. Horn: 1 bl. ev. 15s (bl. 5s, si. 10s).
474 <i>M 6837.5</i>	-Detached breakwater, E. head.	43° 16.2' N 145° 34.7' E	Fl.G. period 3s	49 15	6	White tower; 33.	
476 <i>M 6837</i>	-On breakwater.	43° 16.7' N 145° 34.5' E	Fl.(2)R. period 6s	49 15	5	Red tower; 46.	
478 <i>M 6835.5</i>	Nemuro Konbumori.	43° 13.4' N 145° 33.2' E	Oc.G. period 4s	39 12	11	White tower; 28.	
480 <i>M 6835</i>	Yururi Shima.	43° 12.6' N 145° 35.5' E	Fl.W. period 3s	174 53	5	White tower, black bands; 43.	
484 <i>M 6834.5</i>	Otiisiko, N. breakwater.	43° 11.0' N 145° 31.0' E	Fl.R. period 3s	46 14	4	Red round concrete tower; 36.	
486 <i>M 6834.3</i>	-W. breakwater.	43° 11.0' N 145° 30.9' E	Fl.G. period 3s	36 11	11	White tower; 32.	
488 <i>M 6834</i>	Otiisi Misaki.	43° 09.9' N 145° 30.9' E	Fl.W.R. period 8s	157 48	19	Square concrete tower, red and white bands; 49.	W. 207° -048°, R.-070°, obsc.-207°. Horn: 2 bl. ev. 30s.
492 <i>M 6830</i>	Tobutsu Saki.	43° 04.6' N 145° 10.1' E	Fl.W.R. period 5s	161 49	19	Quadrangular concrete structure, red and white bands; 39.	R. 215° -270°, W.-215°. F.W. auxiliary light illuminates Hikake Iwa 1.6 miles ENE. Horn: 1 bl. ev. 30s (bl. 10s, si. 20s).
496 <i>M 6831</i>	Kiritappu Ko, E. breakwater.	43° 05.1' N 145° 08.0' E	Fl.G. period 4s	39 12	5	White round concrete structure; 31.	
498 <i>M 6830.4</i>	Biwase Hana.	43° 03.1' N 145° 05.4' E	Fl.G. period 3s	39 12	8	White concrete tower; 28.	
500 <i>M 6828</i>	Akkeshi.	42° 56.9' N 144° 51.9' E	Fl.W. period 10s	367 112	26	White round concrete structure; 25.	Horn: 3 bl. ev. 45s.
502 <i>M 6828.4</i>	Tokotan Ko, breakwater.	42° 59.7' N 144° 52.1' E	Iso.R. period 4s	36 11	4	Red tower; 27.	
504 <i>M 6829</i>	Akkesi Ko breakwater, N. head.	43° 02.4' N 144° 49.8' E	Fl.(2)R. period 6s	46 14	9	Red tower; 36.	
508 <i>M 6826</i>	Konbumori.	42° 56.9' N 144° 31.3' E	Fl.W.R. period 5s	295 90	20	Black square concrete tower, white bands; 36.	R. 040° -090°, W.-040°.
510 <i>M 6826.5</i>	-Konbumori Ko.	42° 57.0' N 144° 31.7' E	Fl.(2)R. period 6s	43 13	12	Red tower; 28.	
512 <i>M 6822</i>	Katsurakoi, Ko.	42° 56.7' N 144° 26.7' E	Fl.R. period 3s	43 13	12	Red tower; 36.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HOKKAIDO-SOUTH COAST							
516 <i>M 6814</i>	-Kushiro Saki.	42° 58.2' N 144° 22.4' E	Fl.W. period 15s	167 51	19	White square concrete tower, red band; 56.	Visible 300° -156° . DGPS Station.
520 <i>M 6814.2</i>	Sireto Syo.	42° 57.7' N 144° 22.1' E	Q.(6)+L.Fl.W. period 15s	49 15	5	S. CARDINAL YB, beacon, topmark; 43.	
522 <i>M 6814.1</i>	-Approach.	42° 58.0' N 144° 23.2' E	Fl.(2)R. period 6s	36 11	3	Red tower; 16.	
524 <i>M 6815</i>	-S. breakwater, head.	42° 58.5' N 144° 21.5' E	Oc.R. period 4s	43 13	7	Red tower; 43.	Visible 113° -325° .
529 <i>M 6814.5</i>	-Detached breakwater, W. head.	42° 58.7' N 144° 21.0' E	Iso.R. period 6s	59 18	11	Red tower; 30.	Horn: 1 bl. ev. 11s.
532 <i>M 6816.4</i>	-N. breakwater, N. head.	42° 59.1' N 144° 21.7' E	Fl.(2)R. period 6s	46 14	9	Red round concrete structure; 36.	
536 <i>M 6816</i>	--S. head.	42° 58.7' N 144° 21.5' E	Fl.(2)G. period 6s	39 12	3	White round concrete tower; 36.	
540 <i>M 6814.4</i>	-Nisiko S. breakwater, E. head.	42° 59.2' N 144° 20.7' E	Fl.G. period 3s	49 15	8	White round concrete structure, 36.	
542 <i>M 6814.3</i>	--W. head.	42° 59.3' N 144° 18.7' E	Fl.R. period 3s	49 15	9	Red tower; 33.	
KUSIRO KO:							
544 <i>M 6813</i>	-AVIATION LIGHT.	43° 02.5' N 144° 12.0' E	Al.Fl.W.G. period 4.3s	364 111		Iron framework tower.	
548 <i>M 6812.4</i>	-Shiranuka Ko, S. breakwater.	42° 56.9' N 144° 05.3' E	F.Fl.R. period 4s	43 13	F. 6 Fl 12	Red round concrete structure; 36.	
552 <i>M 6812</i>	Tokachi Otu.	42° 40.1' N 143° 38.0' E	Fl.(3)W. period 20s 3 fl. 10s, ec. 10s	190 58	20	Round concrete tower, black and white bands; 46.	Visible 222° -055° .
554 <i>M 6811.7</i>	Taiki Ko.	42° 28.2' N 143° 26.3' E	Iso.G. period 4s	43 13	12	White round concrete tower; 28.	
556 <i>M 6807.5</i>	Hiroo.	42° 17.0' N 143° 19.5' E	Fl.(2)W. period 15s 2 fl. 5s, ec. 10s	125 38	17	White quadrangular concrete tower; 43.	Visible 197° -017° . Horn: 1 bl. ev. 20s.
TOKACHI KO:							
560 <i>M 6808</i>	-S. (outside) breakwater, head.	42° 17.8' N 143° 20.9' E	Fl.G. period 4s	49 15	12		
562 <i>M 6809</i>	--Breakwater extension.	42° 17.9' N 143° 20.6' E	Fl.R. period 4s	46 14	11		
564 <i>M 6810</i>	-Inside breakwater, head.	42° 17.3' N 143° 19.6' E	Iso.R. period 6s	36 11	11	Red round concrete structure; 31.	
572 <i>M 6803</i>	Syoya Ko, W. breakwater, head.	42° 02.3' N 143° 18.1' E	Iso.G. period 4s	45 14	12	White round concrete structure; 36.	
574 <i>M 6803.5</i>	-E. breakwater.	42° 02.2' N 143° 18.0' E	Fl.R. period 3s		3		
576 <i>M 6802</i>	Erimo Misaki.	41° 55.5' N 143° 14.6' E	Fl.W. period 15s	239 73	22	White round concrete tower; 46.	
RAMARK							
578 <i>M 6799</i>	Utabeto ko.	41° 59.5' N 143° 09.8' E	Fl.R. period 4s	33 10	3	Red tower; 16.	
580 <i>M 6796</i>	Horoizumi.	42° 01.0' N 143° 09.0' E	Iso.W. period 6s	223 68	15	Red round concrete structure, white bands; 43.	Visible 339° -126° .
584 <i>M 6797</i>	Erimo Ko.	42° 00.9' N 143° 08.5' E	Fl.(2)R. period 5s	46 14	4	Red tower; 36.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HOKKAIDO-SOUTH COAST							
588 M 6798	-S. jetty.	42° 00.8' N 143° 08.9' E	Fl.R. period 3s	27 8	6	Red tower; 25.	
589	Asahi Ko.	42° 03.7' N 143° 03.7' E	Fl.R. period 3s	36 11	3	Red tower; 16.	
590 M 6794	Huyusima Ko.	42° 06.0' N 142° 59.1' E	Fl.(2)R. period 6s	46 14	5	White round concrete tower; 27.	
592 M 6793	Samani Ko, E. breakwater.	42° 07.4' N 142° 55.2' E	Fl.G. period 3s	36 11	5	White round concrete structure; 30.	
596 M 6792	-W. breakwater.	42° 07.5' N 142° 55.0' E	Fl.(2)G. period 6s	39 12	6	White tower; 36.	
600 M 6791	-Outer E. breakwater, head.	42° 07.4' N 142° 54.6' E	Iso.R. period 4s	46 14	12	Red round concrete structure; 36.	
602 M 6790	Utoma Ko.	42° 07.9' N 142° 52.3' E	Fl.R. period 3s	39 12	6	Red concrete structure; 28.	
604 M 6786	Urakawa Ko.	42° 09.8' N 142° 46.6' E	Fl.W. period 5s	154 47	19	White round concrete structure, red bands; 39.	Visible 314° -107° .
608 M 6788	-S. breakwater, head.	42° 09.9' N 142° 45.5' E	Fl.R. period 3s	43 13	10	Red triangular iron framework structure; 29.	
612 M 6789	-N. breakwater, head.	42° 09.8' N 142° 46.1' E	F.Fl.G. period 5s	36 11	F. 7 Fl 11	White round concrete tower; 31.	
616 M 6784	Ogifushi Hana E. breakwater.	42° 12.0' N 142° 39.5' E	Fl.R. period 4s	43 13	12	Red round concrete tower; 31.	
620 M 6781	Mituisi ko, S. breakwater.	42° 14.6' N 142° 32.9' E	Fl.R. period 3s	52 16	10	Red round concrete structure; 31.	
624 M 6783	-W. breakwater.	42° 14.7' N 142° 32.9' E	Iso.G. period 6s	46 14	3	White round concrete tower; 26.	
626 M 6780	Harutati-sizunai.	42° 16.2' N 142° 28.9' E	Fl.(2)R. period 5s	33 10	3	Red tower; 16.	
628 M 6778	Higasi-sizunai.	42° 17.8' N 142° 26.9' E	Fl.R. period 5s	43 13	12	Red round concrete tower; 27.	
632 M 6777	Sizunai.	42° 19.7' N 142° 22.3' E	Fl.W. period 10s	299 91	24	Cylindrical concrete structure, red and white bands; 40.	Visible 307° -120° .
636 M 6777.5	-Breakwater, head.	42° 19.4' N 142° 22.1' E	Fl.R. period 3s	30 9	6	Red tower; 19.	
640 M 6776	Seppu Ko, S. breakwater, head.	42° 22.7' N 142° 16.4' E	Fl.(2)R. period 6s	43 13	4	Red tower; 29.	
644 M 6775	Atsuga Ko, S. breakwater.	42° 26.0' N 142° 12.1' E	Fl.R. period 3s	46 14	12	Red round concrete tower; 36.	
648 M 6774.6	Hidaka Monbetu.	42° 28.3' N 142° 04.9' E	Iso.W. period 8s	148 45	12	White octagonal concrete structure; 43.	
652 M 6774.4	-Sea berth.	42° 35.1' N 141° 47.8' E	Mo.(U)R. period 10s	98 30	10		E. and W. heads marked by Mo.(U)R. 10s Horn.
658 M 6774.3	-E. breakwater.	42° 34.8' N 141° 46.3' E	Fl.(2)R. period 6s	56 17	13	Red tower; 46.	
660 M 6774	-Sea berth.	42° 36.2' N 141° 38.7' E	Mo.(U)W. period 14s	105 32	13		Auxiliary lights Mo.(U)W. 14s 6M Siren Mo.(U) 30s 260m NW. and 240m SE., and Mo.(U)W. 14s 6M 120m NNW. and 100m SE. Radar reflector.
664 M 6773	-W. breakwater.	42° 37.3' N 141° 37.2' E	Fl.(2)G. period 7s	43 13	12	White round concrete structure; 42.	
668 M 6773.4	-S. Breakwater.	42° 37.6' N 141° 37.1' E	Iso. G. period 6s	33 10	11	White round concrete structure; 31.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HOKKAIDO-SOUTH COAST							
672 M 6773.7	-Tomakomai Ko, E. breakwater.	42° 36.9' N 141° 37.2' E	Iso.R. period 4s	56 17	13	Red round concrete concrete structure; 52.	
673 M 6773.75	--E. detached breakwater, SW. head.	42° 36.8' N 141° 37.1' E	Fl.Y. period 3s	43 13	7	Yellow tower; 33.	
674 M 6773.1	--A, W. detached breakwater, NE. head.	42° 37.3' N 141° 35.3' E	Fl.Y. period 4s	14 4	4	SPECIAL Y, beacon, topmark; 12.	
675 M 6773.3	--B, SW. head.	42° 37.2' N 141° 35.1' E	Fl.Y. period 4s	14 4	4	SPECIAL Y, beacon, topmark; 12.	
676 M 6772	Tomakomai.	42° 37.2' N 141° 34.4' E	Fl.W. period 12s	121 37	17	Round concrete tower, black and white bands; 105.	Visible 255° -075°.
680 M 6770	Ayoro Hana.	42° 27.0' N 141° 12.2' E	Al.Fl.W.R. period 16s	138 42	18	Round concrete structure, red and white bands; 43.	Visible 226° -075°.
684 M 6770.3	Neboribetu Ko, breakwater, head.	42° 26.8' N 141° 11.5' E	Fl.R. period 3s	52 16	13	Red round concrete tower; 33.	
688 M 6745	Tikiu Misaki.	42° 18.0' N 141° 00.3' E	Fl.(2)W. period 30s 2 fl. 8s, ec. 22s	430 131	28	White octagonal concrete tower; 49.	
692 M 6745.5	Oinaosi Gyoko.	42° 18.4' N 140° 58.0' E	Fl.G. period 3s	43 13	6	White tower; 36.	
MURORAN KO:							
696 M 6746.6	-Breakwater, SW. head.	42° 20.5' N 140° 55.9' E	Iso.G. period 6s	43 13	12	White round concrete tower; 36.	R. lights mark detached breakwater heads 150 meters SE.
704 M 6746.4	-S. outer breakwater.	42° 20.8' N 140° 55.2' E	Oc.R. period 8s	49 15	12	Red round concrete structure; 46.	
708 M 6746	-N. outer breakwater, S. head.	42° 21.2' N 140° 55.0' E	Fl.(2)G. period 6s	49 15	7	White round concrete structure; 46.	
712 M 6747	-S. auxiliary breakwater, head.	42° 20.9' N 140° 55.9' E	F.Fl.R. period 5s	43 13	F. 6 Fl 12		
716 M 6749	-N. breakwater, head.	42° 21.2' N 140° 56.9' E	Fl.G. period 4s	33 10	3	White tower; 23.	Iso.W., Iso.R. and Iso.G. mark bridge 230 meters SE.
720 M 6750	-S. breakwater, head.	42° 21.0' N 140° 57.0' E	Fl.R. period 4s	43 13	3	Red tower; 36.	
724 M 6748	-Sea berth.	42° 21.5' N 140° 56.8' E	Mo.(U)W. period 10s	105 32	16		
736 M 6754.3	-E. end Range, front.	42° 21.0' N 140° 59.1' E	F.R.	105 32	4		
740 M 6754.31	--Rear, 400 meters 090° from front.	42° 21.0' N 140° 59.4' E	F.R.	115 35	4		
744 M 6756	-Huzi Ironworks Wharf.	42° 20.5' N 140° 59.0' E	Fl.(3)G. period 13s	23 7	8	White round iron structure; 13.	
748 M 6755	-Huzi Ironworks Range No. 1, front.	42° 20.3' N 140° 59.1' E	F.R.	62 19	8	Silver triangular iron framework structure, red triangular topmark; 56.	
752 M 6755.1	--Rear, about 173 meters 124.1° from front.	42° 20.3' N 140° 59.2' E	F.R.	79 24	8	Silver triangular iron framework structure, red triangular topmark; 72.	
756 M 6762	-Huzi Seitetu Range No. 2, front.	42° 20.8' N 141° 00.6' E	F.R.	56 17	8	Black triangular framework tower, white triangular topmark; 56.	Visible 349° -169°.
760 M 6762.1	--Rear, about 115 meters 079° from front.	42° 20.8' N 141° 00.6' E	F.R.	72 22	8	Black triangular framework tower, white triangular topmark; 72.	Visible 349° -169°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HOKKAIDO-SOUTH COAST							
764 M 6763	-Huzi Seitetu Range No. 3, front.	42° 20.9' N 141° 00.5' E	F.R.	62 19	8	Silver triangular iron framework tower, red triangular topmark; 56.	
768 M 6763.1	--Rear, 85 meters 079° from front.	42° 20.9' N 141° 00.6' E	F.R.	79 24	8	Silver triangular iron framework tower, red triangular topmark; 72.	
772 M 6768	-Nittu Wharf Range No. 1, front.	42° 19.6' N 140° 59.2' E	F.R.	59 18	4	Triangular iron structure, red triangular topmark; 10.	
776 M 6768.1	--Rear, 50 meters 125° from front.	42° 19.6' N 140° 59.2' E	F.R.	69 21	4	Triangular iron structure, red triangular topmark; 17.	
780 M 6769	-Nittu Wharf Range No. 2, front.	42° 19.7' N 140° 59.4' E	F.R.	36 11	4	Iron framework tower, red triangular topmark; 5.	
784 M 6769.1	--Rear, 35 meters 110° from front.	42° 19.6' N 140° 59.4' E	F.R.	43 13	4	Iron framework tower, red triangular topmark; 10.	
788 M 6744.5	Date Ko, breakwater, head.	42° 27.7' N 140° 51.7' E	Fl.G. period 3s	43 13	12		
790	Usu Wan.	42° 30.7' N 140° 46.9' E	Fl.(2)W. period 5s		3	ISOLATED DANGER BRB, beacon, topmark.	
790.5 M 6744.2	-W.	42° 30.9' N 140° 46.1' E	Fl.(2)W. period 5s	33 10	6	ISOLATED DANGER BRB, beacon, topmark.	
792 M 6744	Abuta Byochi, breakwater, head.	42° 31.8' N 140° 46.4' E	Fl.R. period 4s	39 12	7	Red round concrete tower; 32.	
796 M 6742	Toyoura Ko, S. breakwater, head.	42° 34.7' N 140° 42.5' E	Iso.R. period 4s	27 8	5	Red round tower; 18.	
800 M 6742.4	-S. detached breakwater, W. head.	42° 34.8' N 140° 42.5' E	Iso.G. period 4s	39 12	9	White round concrete tower; 31.	
808 M 6741.5	Reubon Ko.	42° 34.3' N 140° 36.1' E	Fl.R. period 3s	43 13	7	Red round concrete structure; 32.	
810 M 6741.4	Sitsukari Toge.	42° 35.1' N 140° 28.4' E	Fl.(2)R. period 6s	39 12	5	Red round tower; 20.	
811 M 6741.35	Oshamanbe Ko.	42° 31.7' N 140° 24.1' E	Fl.G. period 3s	26 8	3	White tower; 16.	
812 M 6740	Sawara Ko, N. breakwater, head.	42° 07.5' N 140° 41.5' E	Iso.R. period 6s	39 12	11	Red round fiberglass structure; 32.	
814 M 6740.5	Dokui Saki, breakwater, head.	42° 07.4' N 140° 38.9' E	Fl.R. period 3s	27 8	3	Red tower; 16.	
816 M 6741	Mori Ko, W. breakwater.	42° 06.7' N 140° 35.5' E	F.Fl.R. period 5s	36 11	F 2 Fl 5	Red tower; 30.	
816.5 M 6741.05	-Breakwater, head.	42° 08.2' N 140° 30.5' E	Fl.G. period 3s	27 8	3	White tower; 16.	
818	Ishikura Ko.	42° 09.4' N 140° 28.9' E	Fl.(2)G. period 6s	28 9	3	White tower; 16.	
820 M 6741.2	Otsibe Ko.	42° 11.4' N 140° 26.1' E	Fl.G. period 3s	39 12	11	White round tower; 31.	
820.5 M 6741.25	-Breakwater, head.	42° 12.9' N 140° 24.1' E	Iso.G. period 4s	27 8	3	White tower; 16.	
824 M 6741.3	Yakumo Ko.	42° 15.3' N 140° 17.4' E	Fl.(2)G. period 6s	39 12	5	White cylindrical tower; 29.	
828 M 6738	Suna Saki.	42° 08.1' N 140° 42.9' E	Fl.W. period 4s	46 14	12	Round concrete tower, red and white bands; 39.	
830 M 6737	Dekima Saki, SE.	42° 03.3' N 140° 48.5' E	Fl.(2)G. period 6s	36 11	11	White round tower; 28.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HOKKAIDO-SOUTH COAST							
SIKABA KO:							
832 M 6735	-E. breakwater.	42° 02.0' N 140° 49.9' E	Fl.G. period 3s	46 14	12	White round tower; 28.	
836 M 6733	Usuziri Wan, N. breakwater, head.	41° 56.0' N 140° 57.0' E	Fl.(2)G. period 6s	36 11	7	White round concrete structure; 29.	
842 M 6734	Ohune Ko.	41° 59.0' N 140° 55.2' E	Oc.G. period 4s	39 12	11	White concrete structure; 28.	
844 M 6732	Katuikimi Ko, N. breakwater.	41° 54.3' N 140° 59.1' E	Iso.G. period 4s	42 13	12	White round concrete tower; 31.	
848 M 6731	Osatsube Ko, N. breakwater.	41° 53.7' N 141° 00.8' E	F.Fl.G. period 5s	36 11	F. 2 Fl 5	White round concrete tower; 30.	
850 M 6730.5	Kinaosi Ko.	41° 53.2' N 141° 04.3' E	Fl.G. period 3s	42 13	12	White tower; 28.	
851 M 6730.3	Furube Ko.	41° 52.1' N 141° 07.1' E	Fl.(2)G. period 6s	49 15	3	White tower; 31.	
852 M 6730	Todohokke Ko, E. breakwater.	41° 49.5' N 141° 10.0' E	Fl.G. period 4s	49 15	7	White tower; 31.	
856 M 6729	Esan Misaki.	41° 48.8' N 141° 11.2' E	Iso.W. period 6s	144 44	18	White round concrete tower; 62.	Visible 156° -335° .
RAMARK							
858 M 6728.5	-Breakwater.	41° 47.5' N 141° 10.5' E	Fl.(2)R. period 6s	36 11	3	Red tower; 16.	
860 M 6727	Yamasedomari Ko, S. breakwater.	41° 47.1' N 141° 07.8' E	Iso.R. period 4s	39 12	8	Red round concrete structure; 36.	
860.5 M 6727.4	-W. breakwater.	41° 47.1' N 141° 07.8' E	Iso.G. period 4s	36 11	9	White tower; 31.	
864 M 6725	Hiura Misaki.	41° 43.4' N 141° 03.4' E	Oc.(2)W.R. period 12s	75 23	14	White round concrete tower; 31.	R. 227° -241° , W.-227° .
868 M 6724.4	Toi Ko, S. breakwater.	41° 42.9' N 141° 01.8' E	Fl.G. period 4s	39 12	11	White round concrete structure; 36.	
872 M 6724.5	-E. breakwater.	42° 43.0' N 141° 01.8' E	Fl.R. period 3s	36 11	11	Red cylindrical concrete structure; 31.	
876 M 6724	Siokubi Misaki.	41° 42.5' N 140° 58.1' E	Fl.(2)W. period 20s 2 fl. 5s, ec. 15s	164 50	19	White round concrete tower; 36.	Visible 279° -098° .
880 M 6722	Kamaya Ko, W. breakwater, head.	41° 43.6' N 140° 56.4' E	Iso.G. period 4s	43 13	12	White round concrete tower; 33.	
882 M 6720	Kameda.	41° 45.0' N 140° 52.5' E	Iso.R. period 4s	43 13	12	Red concrete tower; 29.	
884 M 6719	Sinori Ko, S. breakwater.	41° 45.6' N 140° 49.5' E	F.Fl.G. period 6s	33 10	F. 5 Fl 11	White round concrete tower; 31.	
HAKODATE KO:							
888 M 6718	-AVIATION LIGHT.	41° 46.3' N 140° 48.8' E	Al.Fl.W.G. period 4.3s	147 45		Iron framework tower.	
892 M 6716	-Osima Sumiyosi Ko, E. breakwater, head.	41° 45.1' N 140° 43.6' E	Fl.(2)R. period 6s	42 13	12	Red round concrete structure; 31.	
896 M 6715	-Fishery Harbor, W. breakwater.	41° 46.4' N 140° 41.8' E	Fl.(2)R. period 5s	33 10	6	Red round concrete tower; 31.	F. Bu. on E. breakwater close SE.
898 M 6707.5	-Outer breakwater, N. head.	41° 47.7' N 140° 41.6' E	Fl.R. period 3s	49 15	8	Red tower; 49.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HOKKAIDO-SOUTH COAST							
900 M 6706	-W. breakwater, N. head.	41° 47.6' N 140° 42.1' E	Fl.(2)R. period 6s	43 13	12	Red round concrete structure; 46.	
904 M 6707	-N. breakwater, S. head.	41° 47.6' N 140° 42.2' E	Fl.(2)G. period 6s	46 14	12	White round concrete structure; 46.	
908 M 6707.4	-N. auxiliary breakwater, head.	41° 48.2' N 140° 42.0' E	Fl.R. period 3s	39 12	10	Red round concrete structure; 39.	
912 M 6708	-Training Wall No. 3, head.	41° 48.5' N 140° 42.4' E	F.Fl.G. period 5s	39 12	F. 7 Fl 11	White square iron structure; 39.	
916 M 6714	-Central pier, S. basin, breakwater, head.	41° 46.7' N 140° 43.7' E	Fl.G. period 3s	19 6	3	White tower; 16.	
920 M 6704	-Outer Harbor, Nippon Cement sea berth.	41° 48.0' N 140° 39.5' E	Mo.(U)W. period 10s	33 10	11		Siren: 1 bl. ev. 20s. Radar reflector.
922 M 6704.5	-Breakwater.	41° 48.8' N 140° 39.2' E	Fl.G. period 3s	30 9	3	White tower; 16.	
924 M 6703	Moheji Ko, E. breakwater, head.	41° 45.6' N 140° 36.4' E	F.Fl.G. period 3s	36 11	F. 2 Fl 5	White round concrete tower; 31.	
928 M 6702	Kattoshi Misaki.	41° 44.4' N 140° 36.2' E	Oc.W. period 10s lt. 6s, ec. 4s	151 46	18	White round concrete tower; 52.	Visible 221° -052°.
932 M 6702.5	Tobetu Ko, S. breakwater.	41° 44.2' N 140° 35.6' E	Iso.G. period 4s	33 10	11	White round concrete tower; 31.	
934 M 6701.5	Kikonai Wan.	41° 41.8' N 140° 29.1' E	Fl.R. period 3s	26 8	3	Red tower; 16.	
936 M 6701	Hokuden Siritu, sea berth.	41° 34.9' N 140° 26.3' E	Mo.(U)W. period 12s	62 19	13		Auxiliary light F.R. about 66 meters N. Horn: Mo.(U) ev. 30s. Radar reflector.
940 M 6700	Wakimoto, E. breakwater.	41° 33.8' N 140° 26.0' E	Fl.G. period 4s	49 15	7	White tower; 30.	
944 M 6698	Yagoshi Misaki.	41° 30.9' N 140° 24.7' E	Fl.W. period 10s	315 96	25	White round concrete tower; 26.	Visible 230° -076°.
948 M 6695	Hukushima Ko, E. breakwater.	41° 28.5' N 140° 15.8' E	Iso.G. period 4s	36 11	12	White round concrete structure; 31.	
952 M 6696	Hukushima Ko.	41° 28.5' N 140° 15.7' E	Iso.R. period 4s	36 11	7	Red round concrete structure; 31.	
956 M 6693	Yoshioka Ko, S. breakwater.	41° 26.7' N 140° 14.5' E	F.Fl.G. period 6s	46 14	F. 2 Fl 5	White round concrete tower; 30.	
960 M 6692	Shirakami Misi.	41° 23.7' N 140° 12.0' E	Al.Fl.W.R. period 30s	121 37	17	Round concrete tower, red and white bands; 56.	Visible 255° -101°.
960.5	Osawa Ko.	41° 25.7' N 140° 08.4' E	Fl.(2)G. period 6s	36 11	3	White tower; 16.	

JAPAN-HOKKAIDO-SOUTH AND WEST COASTS

964 M 6690	Matumae (Fukuyama).	41° 25.1' N 140° 05.3' E	Iso.W. period 6s	82 25	12	White square concrete tower; 22.	Visible 217° -119° . Storm signals. Radiobeacon. DGPS Station.
968 M 6691	-Outer breakwater.	41° 25.2' N 140° 05.6' E	Iso.G. period 6s	56 17	5	White round concrete structure; 46.	
972 M 7042	Tatchama Ko.	41° 26.6' N 140° 02.7' E	F.Fl.G. period 6s	46 14	F. 5 Fl 12	White round concrete tower; 36.	
976 M 7044	Yoshiga Sima, on summit.	41° 26.6' N 140° 02.0' E	Fl.W. period 5s	46 14	5	White tower; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HOKKAIDO-SOUTH AND WEST COASTS							
980 M 7040	Satumae Ko, W. breakwater, head.	41° 28.1' N 140° 01.7' E	Fl.(2)G. period 6s	43 13	5	White tower; 36.	
984 M 7039	Sizuura Ko, W. breakwater.	41° 29.0' N 140° 01.1' E	Iso.G. period 4s	46 14	5	White round concrete tower; 32.	
988 M 6684	Matumae O Sima.	41° 29.7' N 139° 20.9' E	Fl.W. period 3s	443 135	16	White round fiberglass structure, red bands; 39.	Visible 257° -134°.
992 M 6686	Matumae Ko Sima.	41° 21.7' N 139° 49.1' E	Fl.(3)W. period 30s	141 43	18	White concrete structure; 79.	Visible 102° -355°.
996 M 7037	Mokusa, entrance.	41° 29.6' N 140° 00.8' E	Fl.(2)R. period 5s	49 15	4	Red round concrete tower; 29.	
1000 M 7036	Kiyobe Ko, N. breakwater.	41° 31.3' N 140° 00.1' E	Fl.G. period 4s	27 8	3	White round concrete tower; 18.	
1004 M 7034	Era Ko, W. breakwater, head.	41° 32.7' N 139° 59.1' E	Fl.R. period 3s	36 11	8	Red tower; 36.	
1008 M 7032.6	Haraguti Ko, N. breakwater.	41° 36.1' N 139° 59.2' E	Fl.G. period 3s	33 10	6	White tower; 18.	
1012 M 7033	Haraguti Oiwa, obstruction light.	41° 35.9' N 139° 59.2' E	F.W.	111 34		Round tower, red and white bands; 20.	Illuminates white cylindrical beacon about 320 meters northwestward.
1016 M 7032.4	Higatatomari Misaki.	41° 38.8' N 140° 00.1' E	Oc.(2)W. period 7s	141 43	18	Round concrete structure, red and white bands; 36.	
1024 M 7031	Siofuki Ko, N. breakwater.	41° 44.5' N 140° 03.0' E	Fl.G. period 3s	52 16	5	White round concrete structure; 36.	
JAPAN-HOKKAIDO-WEST COAST							
ESASHI KO:							
1032 M 7028	-Kamome Sima.	41° 51.9' N 140° 07.0' E	Fl.(3)W. period 13s	118 36	17	White square concrete tower; 33.	Visible 007° -277°.
1036 M 7029	-W. breakwater, head.	41° 52.4' N 140° 07.3' E	Fl.R. period 3s	49 15	7	Red round concrete structure; 39.	
1040 M 7029.4	-E. breakwater, head.	41° 52.4' N 140° 07.3' E	Fl.G. period 5s	36 11	3	White pillar; 32.	
1044 M 7028.4	-E. outer breakwater, head.	41° 52.4' N 140° 07.3' E	Fl.G. period 3s	43 13	5	White round concrete structure; 36.	
1048 M 7026	Otobe Ko, W. breakwater.	41° 58.2' N 140° 07.7' E	Fl.(2)G. period 6s	46 14	5	White tower; 36.	Mercury vapor light on E. breakwater head.
1052 M 7025.4	Hiyama Toyohama Ko, W. breakwater.	42° 02.5' N 140° 05.1' E	F.Fl.G. period 5s	52 16	F 5 Fl 12	White round concrete tower; 33.	
1056 M 7025.2	Ainuma Ko, N. breakwater.	42° 04.3' N 140° 03.8' E	Oc.G. period 8s	52 16	12	White round concrete tower; 36.	
1064 M 7024.4	-S. breakwater.	42° 07.5' N 139° 59.1' E	Fl.G. period 4s	56 17	7	White round concrete structure; 36.	
1068 M 7024.6	-E. breakwater.	42° 07.6' N 139° 59.1' E	Fl.R. period 3s	49 15	3	Red tower; 31.	
1072 M 7023.8	Ponmoshiri Misaki.	42° 08.0' N 139° 56.0' E	Fl.(2)W. period 8s 2 fl. 3s, ec. 5s	141 43	18	Octagonal concrete tower, black and white bands; 36.	
1076 M 7023.2	Murotsu Sima.	42° 00.7' N 139° 27.3' E	Fl.W. period 5s	49 15	12	Round concrete structure, red and white bands; 38.	
1080 M 7022	Aonae Misaki.	42° 03.2' N 139° 27.2' E	Fl.W. period 10s	88 27	15	Tower, red and white bands; 53.	Visible 233° -110°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HOKKAIDO-WEST COAST							
1084 M 7023	-N. breakwater, head.	42° 03.6' N 139° 27.2' E	Fl.(2)R. period 8s	39 12	9	Red round concrete structure; 36.	
1088 M 7021	Okushiri.	42° 10.8' N 139° 31.7' E	Fl.G. period 3s	39 12	7	White round tower; 11.	
1092 M 7023.3	Kamuiwaki, W. breakwater.	42° 10.0' N 139° 24.8' E	F.Fl.G. period 5s	40 12	F 5 Fl 11	White round concrete tower; 36.	
1096 M 7020	Inaho Misaki.	42° 14.7' N 139° 33.7' E	Fl.W. period 15s	135 41	18	Square concrete tower, black and white bands; 56.	Visible 070° -336°. F.W. illuminates rock about 1095 meters northward.
RAMARK							
1100 M 7019	Kouta Misaki.	42° 13.4' N 139° 48.9' E	Oc.(3)W. period 13s	102 31	14	White round concrete tower; 32.	
1104 M 7019.4	Kudo Ko, S. breakwater.	42° 13.0' N 139° 49.9' E	Fl.(2)R. period 6s 2 fl. 2s, ec. 4s	56 17	9	Red tower; 33.	
1108 M 7018.5	Midareno Saki.	42° 21.0' N 139° 47.0' E	Fl.W. period 5s	105 32	16	White round concrete tower; 33.	
1112 M 7018	Setana K5, S. outer breakwater.	42° 27.0' N 139° 51.0' E	Iso.G. period 6s	49 15	12		
1116 M 7016	Biya entrance.	42° 32.9' N 139° 50.2' E	Fl.(2)R. period 6s	32 10	12	White tower; 31.	
1120 M 7015	Motta Mi.	42° 36.0' N 139° 50.0' E	F.Fl.R. period 3s	49 15	6 12	Red round concrete structure; 36.	
1124 M 7014	Motsuta Misaki.	42° 37.0' N 139° 50.0' E	Fl.(2)W. period 24s 2 fl. 6s, ec. 18s	925 282	37	White round concrete structure, black bands; 46.	Visible 356° -211°.
1128 M 7013.4	Kimaki Misaki.	42° 41.1' N 139° 55.8' E	Oc.(2)W. period 6s	135 41	18	Concrete structure, red and white bands; 31.	
1130 M 7013.2	Chihase Ko.	42° 41.3' N 140° 00.1' E	Fl.R. period 3s	46 14	5	Red round concrete tower; 36.	
1132 M 7013	Honme Misaki.	42° 45.0' N 140° 07.0' E	Fl.(3)W. period 15s 3 fl. 5s, ec. 10s	157 48	19	Hexagonal concrete tower, black and white bands; 36.	
JAPAN-HOKKAIDO-WEST AND NORTH COASTS							
1136 M 7012	Benkei Misaki.	42° 49.0' N 140° 12.0' E	Fl.W. period 8s	108 33	16	Round concrete structure, red and white bands; 43.	Visible 057° -308°.
1140 M 7011	Daimaru Iso.	42° 48.4' N 140° 13.5' E	Fl.W. period 3s	36 11	5	White tower; 36.	
1144 M 7010	Suttsu, N. breakwater.	42° 47.7' N 140° 14.3' E	Fl.R. period 3s	52 16	5	Red round concrete structure; 32.	
1148 M 7009	Yokoma Ko.	42° 50.8' N 140° 20.3' E	F.W.	118 36		White round concrete tower; 24.	Illuminates W. beacon about 470 meters W.
1152 M 7006	Iwanai Ko, W. breakwater, head.	42° 59.7' N 140° 30.8' E	Iso.R. period 4s	46 14	12	Red round iron structure; 29.	
1156 M 7008	-N. breakwater.	42° 59.2' N 140° 30.6' E	Fl.R. period 3s	21 6	3	Red tower; 16.	
1160 M 7005.7	Shiribesitomari Ko.	43° 03.9' N 140° 29.7' E	Fl.(2)W. period 8s 2 fl. 3s, ec. 5s	98 30	16	Round concrete structure, red and white bands; 33.	F.W. illuminates beacon on reef close WSW.
1164 M 7005.5	Kamoenai Ko, W. breakwater.	43° 08.3' N 140° 25.6' E	Iso.G. period 4s	46 14	12	White round concrete tower; 32.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HOKKAIDO-WEST AND NORTH COASTS							
1168 M 7005.2	Kawashiro Ko Offing Breakwater, head.	43° 13.0' N 140° 19.6' E	Fl.G. period 3s	39 12	3	White tower; 16.	
1172 M 7004	Kamui Misaki.	43° 20.0' N 140° 20.8' E	Fl.W. period 15s	269 82	21	White round concrete tower, black bands; 39.	Visible 008° -243° .
1176 M 7005	Yobetsu Ko, N. breakwater.	43° 19.7' N 140° 23.0' E	F.Fl.R. period 5s	36 11	F. 6 Fl 11	Red round concrete tower; 31.	
1176.5 M 7004.3	-Kaihatsukyoku.	43° 20.0' N 140° 22.7' E	Fl.(2)R. period 6s	36 11	4	Red tower; 8.	
1178 M 7004.5	-E. breakwater.	43° 19.8' N 140° 24.1' E	Fl.R. period 3s	39 12	9	Red tower; 33.	
1178.5	Hiduka Ko.	43° 21.3' N 140° 27.7' E	Fl.G. period 3s	27 8	3	White tower; 16.	
1180 M 7003	Shakotan De Misaki.	43° 22.4' N 140° 28.8' E	Fl.W. period 5s	462 141	19	Round concrete tower, red and white bands; 43.	DGPS Station.
1184 M 7002	Funama Ko, outer breakwater.	43° 17.9' N 140° 36.6' E	F.Fl.R. period 6s	43 13	F. 6 Fl 12	Red round concrete tower; 36.	
1188 M 7001	Furubira Ko, E. breakwater.	43° 16.2' N 140° 38.8' E	F.Fl.(2)R. period 10s	36 11	F. 8 Fl 11	Red round concrete tower; 36.	
1196 M 6998	Yoichi Ko, basin, S. breakwater, head.	43° 12.7' N 140° 46.6' E	Fl.G. period 4s	25 8	3	White tower; 20.	
1200 M 6998.6	--N. breakwater.	43° 12.7' N 140° 46.6' E	F.Fl.R. period 4s	32 10	F. 3 Fl 7	Red tower; 29.	
1204 M 6998.4	---Head.	43° 12.7' N 140° 46.9' E	Fl.R. period 3s	39 12	5	Red round concrete tower; 25.	
1208 M 6999.4	-Breakwater, W. side of river mouth.	43° 11.9' N 140° 47.5' E	Fl.(2)R. period 5s	39 12	3	Red round concrete tower; 18.	
1210 M 6997.5	Oshoro.	43° 12.6' N 140° 51.6' E	Dir.F.W.R.G.	16 5	W. 13 R. 10 G. 10	White tower; 11.	R. 126° 54' -128° 54' , W.- 129° 54' , G.-131° 54' .
1212 M 6996	Hiyori Yama.	43° 14.3' N 141° 00.9' E	Fl.W. period 8s	164 50	19	White round tower, red bands; 33.	Visible 108° -347° . Horn: 1 bl. ev. 30s.
1216 M 6995	-Breakwater, S. head.	43° 13.9' N 141° 01.0' E	Fl.R. period 3s	39 12	5	Red round concrete structure; 36.	
OTARU KO:							
1220 M 6992	-Takashima, N. breakwater.	43° 12.8' N 141° 01.0' E	Fl.R. period 6s	43 13	5	Red round concrete structure; 33.	
1224 M 6988	-N. auxilliary breakwater, E. head.	43° 12.0' N 141° 01.6' E	Fl.R. period 4s	49 15	7	Red round concrete structure; 46.	
1228 M 6989	-S. breakwater, head.	43° 11.9' N 141° 01.5' E	Fl.(2)G. period 6s	46 14	8	White round concrete tower; 52.	
1230 M 6981.4	-Ishikariwan Ko Range, front.	43° 10.7' N 141° 17.9' E	F.R.	49 15	2		
1231 M 6981.41	--Rear, 167.7° from front.	43° 10.6' N 141° 17.9' E	F.R.	66 20	2		
1231.2 M 6981.2	-Outer breakwater.	43° 13.7' N 141° 17.4' E	Fl.(2)R. period 6s	52 16	7	Red concrete structure; 46.	
ISHIKARI GAWA:							
1231.5 M 6979	-Approach.	43° 16.5' N 141° 14.6' E	Mo.(A)W. period 8s	36 11	8	SAFE WATER RW, beacon, topmark.	
1232 M 6980	-Ishikari, W. side of entrance to river.	43° 15.3' N 141° 21.9' E	Fl.W. period 20s	56 17	13	White round tower, red bands; 46.	Visible 043° -223° .

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HOKKAIDO-WEST AND NORTH COASTS							
1240 M 6975.5	Atsuta Ko, W. breakwater, head.	43° 23.8' N 141° 25.7' E	Fl.G. period 3s	42 13	7	White round concrete tower; 32.	
1244 M 6974.4	Hamamasu, W. breakwater.	43° 36.2' N 141° 22.9' E	Fl.R. period 3s	39 12	5	Red tower; 36.	
1248 M 6974	-N. breakwater.	43° 36.2' N 141° 22.9' E	F.Fl.G. period 6s	46 14	F 2 Fl 5	White round concrete tower; 33.	
1252 M 6973.5	Isikari Wan.	43° 38.5' N 141° 21.4' E	Fl.W. period 10s	200 61	20		Visible 358° -167° .
1256 M 6972.2	Ohuyu Ko, N. breakwater.	43° 44.4' N 141° 20.7' E	Iso.G. period 4s	36 11	11	White round concrete structure; 36.	
1258 M 6972.4	Betukari Ko.	43° 50.0' N 141° 28.8' E	Oc.R. period 4s	46 14	12	Red round concrete tower; 36.	
1260 M 6970	Mashike Ko.	43° 51.0' N 141° 32.0' E	Al.Fl.W.R. period 16s	150 46	18	Concrete tower, black and white bands; 39.	Visible 068° -287° .
1268 M 6972	-N. breakwater, head.	43° 51.4' N 141° 32.4' E	Iso.R. period 6s	46 14	12	Red round concrete tower; 36.	
RUMOI KO:							
1272 M 6960.6	-Rumoi.	43° 57.5' N 141° 38.9' E	Fl.(2)W. period 15s 2 fl. 5s, ec. 10s	190 58	20	Round tower, red and white bands; 56.	Visible 016° -181° .
1276 M 6961	-S. breakwater, head.	43° 57.5' N 141° 38.0' E	Fl.R. period 3s	52 16	12	Red round concrete structure; 46.	
1280 M 6960.8	-W. breakwater, head.	43° 57.6' N 141° 37.6' E	Fl.(2)G. period 6s	49 15	11	White round concrete structure; 52.	
1284 M 6962	-N. breakwater, head.	43° 57.4' N 141° 38.4' E	Fl.G. period 3s	39 12	8	White round concrete structure; 36.	
1288 M 6963	-Inner harbor, W. jetty, head.	43° 57.0' N 141° 38.3' E	Fl.(2)R. period 6s	23 7	3	Red tower; 16.	
1296 M 6959	Obira, detached breakwater.	44° 00.0' N 141° 39.0' E	Iso.R. period 6s	33 10	11	Red round concrete tower; 31.	F.W. auxiliary light illuminates beacon on reef about 275 meters north.
1300 M 6958	Onishika Ko, W. breakwater, head.	44° 09.5' N 141° 39.2' E	Fl.R. period 4s	43 13	7	Red round concrete tower; 32.	
1304 M 6957	Rikibiru Ko, S. breakwater.	44° 13.0' N 141° 39.0' E	Fl.(2)R. period 8s	36 11	11	Red round concrete structure; 36.	
TOMMAE KO:							
1308 M 6954	-N. breakwater, head.	44° 19.0' N 141° 39.0' E	Fl.R. period 3s	39 12	9	Red round concrete tower; 36.	F.W. shown near extremity of point.
1312 M 6953	-E. Breakwater, head.	44° 18.9' N 141° 39.4' E	Fl.G. period 3s	36 11	11	White round concrete structure; 31.	
1316 M 6955	-Tomamae.	44° 18.0' N 141° 39.0' E	Fl.W. period 5s	223 68	20	White round concrete tower; 33.	
1320 M 6954.4	-Haboro Ko, W. breakwater, head.	44° 22.6' N 141° 41.6' E	Fl.R. period 4s	45 14	7	Red round concrete structure; 36.	
1324 M 6944	Yakishiri Jima.	44° 25.7' N 141° 25.7' E	Fl.(4)W. period 30s 4 fl. 15s, ec. 15s	167 51	19	White octagonal concrete tower; 43.	Visible 182° -090° , obscured 182° -192° when within 7M.
F.W.							illuminates beacon on Kamoi Iwa rock.
1328 M 6946	--Breakwater.	44° 26.4' N 141° 25.9' E	Fl.(2)R. period 8s	43 13	5	Red round concrete structure; 32.	

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JAPAN-HOKKAIDO-WEST AND NORTH COASTS							
1330 <i>M 6945</i>	--Nisiura Ko, breakwater.	44° 26.5' N 141° 24.0' E	Fl.R. period 3s	33 10	5	Red concrete tower; 36.	
1332 <i>M 6941</i>	Akaiwa Saki.	44° 24.9' N 141° 17.7' E	Fl.(2)W. period 7s	450 137	7	White round concrete tower; 31.	
1336 <i>M 6939</i>	Teuri To.	44° 26.4' N 141° 19.4' E	Fl.W. period 10s	249 76	20	White round concrete tower, red bands; 49.	
1344 <i>M 6942.6</i>	-N. breakwater, head.	44° 26.4' N 141° 19.8' E	Fl.R. period 4s	49 15	5	Red round concrete structure; 36.	
1348 <i>M 6942.8</i>	-S. breakwater, head.	44° 26.3' N 141° 19.8' E	Fl.G. period 4s	36 11	3	White round concrete structure; 36.	
1350 <i>M 6941.5</i>	Maehama Ko.	44° 25.6' N 141° 20.1' E	Fl.G. period 3s	39 12	3	White concrete tower; 28.	
1352 <i>M 6942</i>	-Gome Iwa.	44° 26.7' N 141° 19.7' E	Q.(3)W. period 10s	36 11	7	E. CARDINAL BYB, beacon, topmark; 36.	
1356 <i>M 6934.5</i>	Konpira Misaki, S.	44° 32.1' N 141° 45.7' E	Fl.(2)R. period 6s	39 12	3	Red tower; 32.	
1360 <i>M 6936</i>	Toyomisaki Ko, N. breakwater.	44° 33.8' N 141° 46.7' E	Iso.R. period 6s	39 12	7	Red round concrete tower; 31.	
1364 <i>M 6935</i>	Konpira Misaki.	44° 33.7' N 141° 46.6' E	Fl.W. period 4s	181 55	20	Concrete structure, red and white bands; 39.	Visible 004° -246°.
1367 <i>M 6934.1</i>	Teshio Ko.	44° 52.2' N 141° 44.1' E	Fl.G. period 3s	33 10	6	White tower; 18.	
1368 <i>M 6934</i>	Teshio Kawa, Kuchi, river mouth, E. side.	44° 52.7' N 141° 44.8' E	Iso.W. period 6s	59 18	13	White round concrete tower; 25.	
1368.5	Wakasakanai Ko.	45° 04.9' N 141° 37.8' E	Fl.R. period 3s	31 10	3	Red tower; 16.	
RISHIRI SHIMA:							
1372 <i>M 6915</i>	-Oshidomari.	45° 15.0' N 141° 14.0' E	Fl.W. period 15s	249 76	22	White square stone structure; 31.	Visible 105° -020°.
1378 <i>M 6917</i>	--Osidomari ko, entrance.	45° 14.6' N 141° 14.2' E	Fl.(2)R. period 6s	49 15	5	Red tower; 36.	
1380 <i>M 6928</i>	-Ishizaki.	45° 09.0' N 141° 20.0' E	Al.FI.W.R. period 20s	114 35	17	Round concrete structure, black and white bands; 105.	
1384 <i>M 6930</i>	-Oniwaki Ko, S. breakwater, head.	45° 08.0' N 141° 19.1' E	Fl.G. period 4s	29 9	4	White round concrete tower; 22.	
1388 <i>M 6927</i>	-Senhoshi Saki.	45° 06.0' N 141° 15.0' E	Fl.W. period 5s	95 29	15	Round concrete structure, red and white bands; 43.	
1392 <i>M 6926</i>	-Senhoshi Ko, S. breakwater.	45° 06.5' N 141° 12.7' E	Iso.G. period 6s	43 13	12	White round concrete structure; 36.	
1396 <i>M 6925</i>	--E. breakwater, head.	45° 06.5' N 141° 12.7' E	Iso.R. period 6s	43 13	12	Red round concrete structure; 36.	
1400 <i>M 6924</i>	-Kutsugata Saki.	45° 11.0' N 141° 08.0' E	Iso.W. period 6s	78 24	14	Red and white square tower; 39.	
1404 <i>M 6293.6</i>	-Kutugata Ko, W. breakwater, head.	45° 11.0' N 141° 08.0' E	Fl.R. period 3s	39 12	9	Red round concrete structure; 39.	
1408 <i>M 6923</i>	-Outer breakwater, head.	45° 11.4' N 141° 08.1' E	Fl.(2)R. period 6s	52 16	6	Red tower; 36.	
1412 <i>M 6922.4</i>	-Shiminato Ko, S. breakwater, head.	45° 12.0' N 141° 08.0' E	Iso.R. period 6s	43 13	12	Red round concrete structure; 36.	
1416 <i>M 6922</i>	-Sakaehama Saki.	45° 12.7' N 141° 08.2' E	Fl.(3)W. period 13s	59 18	13	Round tower, red and white bands; 35.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HOKKAIDO-WEST AND NORTH COASTS							
1420 <i>M 6919</i>	-Motodomari Ko, N. breakwater, head.	45° 15.0' N 141° 11.0' E	Fl.G. period 3s	39 12	8	White round concrete structure; 36.	
1424 <i>M 6909</i>	Hunbe.	45° 16.0' N 141° 03.0' E	Oc.W. period 8s	151 46	18	Round concrete structure, red and white bands; 39.	
1428 <i>M 6908</i>	Mototi.	45° 17.0' N 141° 01.0' E	Fl.W. period 10s	692 211	34	Octagonal concrete structure, black and white bands; 31.	
1432 <i>M 6908.4</i>	Mototi Ko, breakwater.	45° 18.0' N 141° 01.0' E	F.Fl.R. period 6s	46 14	F. 6 Fl 12	Red round concrete structure; 36.	
1433 <i>M 6914</i>	Teppu Gyoko, breakwater.	45° 25.0' N 140° 59.5' E	Fl.R. period 3s	39 12	9		
1436 <i>M 6910</i>	Kaishomai.	45° 18.2' N 141° 03.1' E	Fl.W. period 4s	157 48	18	White round concrete tower; 22.	
1440 <i>M 6910.7</i>	Kahuka Ko, N. breakwater, head.	45° 18.0' N 141° 03.0' E	Fl.R. period 3s	46 14	9	Red round concrete structure; 36.	
1444.5 <i>M 6910.5</i>	-E. breakwater, head.	45° 17.8' N 141° 03.1' E	Fl.(2)R. period 6s	39 12	6	Red tower; 31.	
1448 <i>M 6911</i>	Kahukai Ko, S. breakwater.	45° 20.1' N 141° 03.3' E	Fl.G. period 3s	36 11	3	White tower; 30.	
1452 <i>M 6913</i>	Todo Shima.	45° 29.0' N 140° 58.0' E	Fl.W. period 3s	174 53	16	White round concrete tower, black bands; 36.	
1456 <i>M 6911.6</i>	N. breakwater, head.	45° 27.0' N 141° 02.0' E	Fl.G. period 3s	39 12	8	White round concrete structure; 33.	
1460 <i>M 6912</i>	Kanedano Misaki.	45° 28.0' N 141° 02.0' E	Fl.(2)W. period 8s 2 fl. 3s, ec. 5s	89 27	15	Tower, red and white bands; 39.	
1462 <i>M 6913.5</i>	Hamanaka Ko.	45° 26.2' N 140° 59.9' E	Fl.(2)R. period 6s	36 11	11	Red round concrete tower; 28.	
1464 <i>M 6912.4</i>	Sukoton Ko, N. breakwater.	45° 27.4' N 140° 58.7' E	Fl.R. period 4s	43 13	3	Red round concrete tower; 31.	
1466 <i>M 6911.2</i>	Nairo Ko, breakwater.	45° 23.4' N 141° 03.4' E	Fl.R. period 5s	39 12	3	Red concrete tower; 32.	
1468 <i>M 6911.4</i>	Uedomari Saki.	45° 25.2' N 141° 04.2' E	Fl.(3)W. period 13s	69 21	14	Round tower with square base, red and white bands; 33.	
1472 <i>M 6907</i>	Bakkai Ko, W. breakwater.	45° 18.4' N 141° 36.6' E	Fl.G. period 3s	49 15	8	White tower; 36.	
1474	Toyohama.	45° 23.3' N 141° 38.5' E	Fl.(2)G. period 8s	24 7	3	White tower; 16.	
WAKKANAI KO:							
1476 <i>M 6901</i>	-Noshappu Misaki.	45° 26.8' N 141° 38.9' E	Fl.(2)W. period 20s 2 fl. 6s, ec. 14s	138 42	18	Round concrete tower, red and white bands; 140.	Visible 006° -315° .
1480 <i>M 6901.5</i>	--SW. of Noshappu Misaki.	45° 26.7' N 141° 38.7' E	F.Fl.G. period 3s	39 12	F. 5 Fl 11	White cylindrical concrete structure; 32.	
1484 <i>M 6902</i>	-N. breakwater, head.	45° 24.9' N 141° 41.8' E	Iso.R. period 6s	49 15	5	Red round concrete tower; 46.	
1486 <i>M 6904</i>	-E. breakwater, W. head.	45° 24.6' N 141° 42.1' E	Fl.G. period 3s	42 13	10	White concrete structure; 36.	
1486.5 <i>M 6905</i>	--E. head.	45° 24.5' N 141° 42.9' E	Fl.R. period 3s	39 12	11	Red tower; 33.	
1487	-Outer breakwater, E. head.	45° 25.0' N 141° 42.5' E	Fl.(2)R. period 6s	46 14	11	Red tower; 44.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HOKKAIDO-WEST AND NORTH COASTS							
1488 <i>M 6902.4</i>	-Hokuyo Wharf, N. breakwater, head.	45° 24.5' N 141° 41.4' E	Fl.(2)G. period 6s	36 11	11	White round structure; 32.	
1492 <i>M 6903.4</i>	-N. breakwater wharf, head.	45° 24.6' N 141° 41.0' E	Fl.R. period 5s	36 11	9	Red round structure; 30.	
1508 <i>M 6900</i>	Koetoi Saki Offing.	45° 25.6' N 141° 45.0' E	Q.W.	39 12	8	N. CARDINAL BY, beacon, topmark; 38.	
1510 <i>M 6900.5</i>	-W. breakwater, head.	45° 24.6' N 141° 45.6' E	Fl.G. period 6s	25 8	3	White tower; 16.	
1512 <i>M 6899</i>	-AVIATION LIGHT.	45° 24.0' N 141° 48.0' E	Al.Fl.W.G. period 4.3s	75 23		Iron framework tower; 29.	
1516 <i>M 6898</i>	Tomiso Ko, W. breakwater.	45° 28.0' N 141° 53.0' E	F.Fl.G. period 6s	43 13	F. 5 Fl 12	White round concrete tower; 31.	
1520 <i>M 6897.6</i>	Soya Gyoka, W. breakwater.	45° 29.1' N 141° 52.6' E	Iso.G. period 4s	43 13	4	White tower; 36.	
1522 <i>M 6897.4</i>	Saya Gyoko.	45° 30.8' N 141° 53.8' E	Fl.R. period 3s	43 13	3	Red tower; 36.	
1524 <i>M 6896</i>	Soya Misaki.	45° 31.1' N 141° 56.4' E	Fl.(4)W. period 30s 4 fl. 15s, ec. 15s	131 40	17	Square concrete tower, red and white bands; 56.	Visible 077° -286° . Horn: 1 bl. ev. 20s (bl. 5s, si. 15s). Radiobeacon. DGPS Station.
RAMARK							
1528 <i>M 6897.2</i>	Soya Ko, N. breakwater.	45° 31.0' N 141° 56.9' E	Fl.R. period 4s	22 7	3	Red round concrete tower; 16.	
1532 <i>M 6897</i>	-Outer N. breakwater.	45° 31.2' N 141° 56.9' E	Iso.R. period 4s	46 14	5	Red round concrete tower; 36.	
1536 <i>M 6896.5</i>	Tuetomanai Point.	45° 25.0' N 142° 02.0' E	Fl.R. period 3s	46 14	12	Red tower; 36.	

Section 2

Northwest Coast of Honshu

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-NORTHWEST COAST							
1540 <i>M 5330</i>	Kurumi Se.	34° 02.4' N 130° 53.6' E	Fl.(2)W. period 5s	39 12	3	ISOLATED DANGER BRB, beacon, topmark; 31.	
1544 <i>M 5329</i>	Yoshimi Ko, N. breakwater.	34° 04.0' N 130° 54.0' E	Fl.G. period 3s	23 7	6	White round concrete tower; 32.	
1548 <i>M 5322</i>	-Hutaoi Sima.	34° 05.7' N 130° 47.1' E	Fl.(3)W. period 30s	340 104	21	White octagonal concrete tower; 49.	Visible 296°-140° and 246°- 286°.
1550 <i>M 5323</i>	--S. side, about 590 meters E. Kenega Saki.	34° 05.7' N 130° 47.5' E	Iso.G. period 6s	26 8	6	White tower; 19.	
1552 <i>M 7402</i>	Kogushi Ko Kawatana, breakwater.	34° 09.6' N 130° 54.6' E	Fl.(2)R. period 6s	39 12	5	Red tower; 31.	
1556 <i>M 7401</i>	Kogusi, Ko, S. breakwater.	34° 10.6' N 130° 55.6' E	Fl.R. period 3s	40 12	5	Red tower; 32.	
1560 <i>M 7400</i>	Yatama Ko A, breakwater.	34° 16.3' N 130° 53.2' E	Fl.(2)G. period 6s	43 13	3	White round concrete tower; 33.	
1564 <i>M 7399</i>	Kottoi.	34° 19.0' N 130° 53.7' E	Oc.W.R. period 8s	89 27	15	White octagonal concrete tower; 21.	R. 035°-095°, W.-104°, R.- 170°.
1566 <i>M 7399.5</i>	Kottoi Ko, breakwater.	34° 18.8' N 130° 53.3' E	Fl.R. period 3s	42 13	3	Red concrete tower; 31.	
1566.1 <i>M 7399.2</i>	-Middle point.	34° 18.9' N 130° 53.6' E	Fl.(2)R. period 6s	30 9	6	Red tower; 18.	
1568 <i>M 7397</i>	Tsuno Shima.	34° 21.0' N 130° 50.6' E	Fl.W. period 5s	148 45	18	Round granite tower; 99.	Visible 352°-232°. Storm signals. F.W. illuminates Kuzu Se about 1.1 km. NNW.
1570 <i>M 7397.5</i>	Tsunoshima Ko, breakwater.	34° 20.6' N 130° 51.6' E	Fl.G. period 3s	30 9	5	White tower; 18.	
1572	-Tsuno Shima.	34° 21.7' N 130° 52.8' E	F.W.	197 60		White square concrete tower; 43.	Two spotlights.
1576 <i>M 7395.4</i>	Yuya Ka Agawa, breakwater, head.	34° 20.7' N 130° 55.7' E	Fl.G. period 3s	33 10	3	White tower; 28.	
1580 <i>M 7395.6</i>	Awano, breakwater, head.	34° 22.0' N 130° 58.5' E	Fl.G. period 3s	39 12	6	White tower; 33.	
1584 <i>M 7396</i>	Nagato I Se.	34° 21.5' N 130° 53.7' E	Fl.W. period 3s	59 18	12	White round concrete structure; 43.	
1588 <i>M 7395.8</i>	-Kakehuti, W. breakwater, head.	34° 22.5' N 131° 02.2' E	F.Fl.(2)G. period 6s	36 11	F. 5 Fl 11	White round concrete structure; 32.	
1592 <i>M 7395</i>	Kuzu Ko, breakwater.	34° 24.3' N 130° 58.3' E	Fl.R. period 3s	23 7	3	Red tower; 16.	
1594 <i>M 7395.2</i>	Oura Gyoko.	34° 24.2' N 130° 57.6' E	Oc.R. period 8s	26 8	7		
1596	-Yuya Ko.	34° 23.3' N 130° 56.6' E	F.W.	312 95		White round concrete structure; 36.	Illuminates beacon on Funase about 0.5 mile SSW.
1600 <i>M 7394</i>	Yuya Wan.	34° 23.6' N 130° 56.0' E	Oc.(2)W. period 12s	131 40	17	White tower; 33.	
KUZU KO:							
1604 <i>M 7392</i>	-Nagato Kawajiri.	34° 26.5' N 130° 58.4' E	Iso.W. period 6s	230 70	5	White tower; 27.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-NORTHWEST COAST							
1612 M 7391	-No. 2 breakwater.	34° 25.3' N 131° 00.3' E	Iso.G. period 6s	36 11	8	White round concrete tower; 28.	
1616 M 7390.5	Kawaziri, breakwater.	34° 25.3' N 131° 00.3' E	Fl.R. period 3s	56 17	3	Red tower; 32.	
1620 M 7388	Ima Misaki.	34° 24.8' N 131° 08.0' E	Fl.(2)W. period 10s 2 fl. 4s, ec. 6s	246 75	20	White cylindrical concrete tower; 22.	
1624 M 7389.5	Kiwada Ko, N. breakwater, head.	34° 23.5' N 131° 08.4' E	F.Fl.(2)R. period 7s	46 14	F. 6 Fl 11	Red tower; 28.	
1628 M 7377	Ushibata Hana.	34° 26.0' N 131° 15.3' E	Iso.W. period 8s	341 104	20	White round tower; 30.	
1632 M 7378	Hagi Ai Shima.	34° 30.8' N 131° 16.7' E	Fl.(2)W. period 21s	184 56	20	White tower; 34.	Visible 028° -287° .
1634 M 7378.2	-S. end.	34° 29.8' N 131° 17.0' E	Fl.R. period 3s	32 10	3	Red tower; 18.	
1636 M 7379	O Shima.	34° 25.1' N 131° 16.0' E	Fl.W. period 5s	56 17	6	White tower; 22.	
1640 M 7378.6	Kayoi Ko, N. breakwater, head.	34° 25.2' N 131° 15.3' E	Oc.G. period 8s	26 8	6	White tower; 19.	
1644 M 7378.8	Kayoi Ko Tanoura, breakwater.	34° 25.5' N 131° 14.9' E	Fl.R. period 3s	39 12	3	Red round concrete structure; 31.	
1648 M 7378.9	Ohibi, breakwater.	34° 24.5' N 131° 12.8' E	Fl.G. period 5s	25 8	6	White round concrete structure; 19.	
1652 M 7382	Senzaki Ko Benten Shima, N. breakwater.	34° 23.8' N 131° 12.1' E	Iso.G. period 4s	26 8	4	White round tower; 24.	
1656 M 7381.8	-No. 1 breakwater, head.	34° 23.6' N 131° 12.5' E	F.Fl.G. period 4s	36 11	F. 6 Fl 11	White tower; 31.	
1660 M 7381.9	-No. 2 breakwater, head.	34° 23.3' N 131° 12.5' E	F.Fl.(2)R. period 8s	39 12	F. 8 Fl 11	Red round concrete structure; 31.	
1664 M 7382.2	-S. breakwater, head.	34° 23.4' N 131° 12.4' E	F.Fl.(2)G. period 8s	39 12	F. 5 Fl 11	Red round concrete tower; 31.	
1668 M 7384	-Ozi Hana.	34° 23.7' N 131° 11.9' E	Fl.(2)W. period 6s	24 7	10	White round tower; 19.	
1672 M 7389	-Nagato Minato Ko, breakwater, head.	34° 22.8' N 131° 10.7' E	Fl.R. period 4s	39 12	5	Red round concrete structure; 28.	
1680 M 7386	Nobase Ko, W. breakwater.	34° 22.8' N 131° 15.1' E	Iso.R. period 6s	25 8	7	Red tower; 19.	
1684 M 7380	Sanmi Ko, W. breakwater.	34° 23.7' N 131° 19.8' E	Iso.G. period 6s	36 11	11	White tower; 28.	
1688	Tamae Ko.	34° 25.0' N 131° 22.0' E	Fl.(2)R. period 8s	49 15	12	Red round concrete tower; 31.	Auxiliary F. light illuminates N. head of breakwater about 90 yards ENE.
1692 M 7361	Toraga Saki.	34° 27.4' N 131° 24.0' E	Fl.W. period 4s	49 15	12	White tower; 32.	
HAGI KO:							
1696 M 7362	-Kistsune Shima, N. side.	34° 26.3' N 131° 25.0' E	Oc.W.R. period 8s lt. 6s, ec. 2s	69 21	14	White round structure; 39.	R. 092° -116° , W.-092° .
1700	-Fishery Harbor, E. breakwater.	34° 25.0' N 131° 25.0' E	F.Fl.G. period 5s	36 11	F. 5 Fl 11	White round tower, quadrangular base; 28.	
1704 M 7363.6	--W. breakwater.	34° 25.5' N 131° 24.8' E	Fl.R. period 4s	36 11	11	Red round concrete tower; 31.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-NORTHWEST COAST							
1708 M 7363.8	-Hamasaki, breakwater.	34° 25.3' N 131° 24.1' E	Oc.R. period 4s lt. 3s, ec. 1s	36 11	11	Red tower; 26.	
1712 M 7363.7	-N. breakwater, N. head.	34° 25.3' N 131° 24.0' E	Fl.R. period 3s	33 10	6	Red round concrete structure; 19.	
1716 M 7364	-Tsurenodai.	34° 25.2' N 131° 24.1' E	F.G.	24 7	3	White round concrete tower; 16.	
1720 M 7361.4	Yunagi, beakwater.	34° 26.5' N 131° 24.8' E	Oc.R. period 4s lt. 3s, ec. 1s	43 13	12	Red tower; 31.	
1722 M 7362.5	-Breakwater.	34° 26.0' N 131° 24.9' E	Iso.R. period 6s	39 12	12	Red tower; 28.	
1723 M 73645	Tsuba Se.	34° 26.1' N 131° 21.1' E	Fl.(2)W. period 5s	16 5	3	ISOLATED DANGER BRB, beacon, topmark.	
1724 M 7360.8	Oi Ko, breakwater.	34° 28.7' N 131° 26.6' E	Fl.R. period 4s	36 11	4	Red round concrete structure; 28.	
1726 M 7361.2	Hagi Gyoko.	34° 26.9' N 131° 25.1' E	F.Fl.(2)R. period 6s	46 14	F. 6 Fl 12	Red tower; 31.	
1728 M 7360.9	Akabose, breakwater, head.	34° 29.2' N 131° 25.0' E	Iso.R. period 8s	22 7	7	Red tower; 19.	
1730 M 7360.85	Uyama Misaki.	34° 28.4' N 131° 26.2' E	Fl.R. period 5s	23 7	4	STARBOARD (B) R, beacon, topmark; 22.	
1732 M 7360.7	Nago Ko, breakwater.	34° 29.8' N 131° 28.0' E	Fl.R. period 3s	26 8	3	Red tower; 16.	
1736 M 7360.6	Ohira Se.	34° 31.5' N 131° 27.4' E	Iso.W. period 6s	463 141	5	White tower; 30.	
1740 M 7360.5	Udago Kolmaura, breakwater, head.	34° 33.7' N 131° 32.5' E	Fl.G. period 3s	42 13	12	White round concrete structure; 32.	
MI SHIMA:							
1744 M 7375	-Mi Shima, Makatano Hana.	34° 45.0' N 131° 10.0' E	Fl.G. period 4s	39 12	7	White round concrete structure; 28.	
1748 M 7370	-Mi Shima.	34° 45.0' N 131° 09.0' E	Fl.W. period 4s	266 81	20	White round concrete tower; 46.	
1754 M 7372.4	-E. breakwater, head.	34° 45.3' N 131° 09.2' E	Fl.(2)G. period 8s	56 17	8	White tower; 33.	
1756 M 7373	-Refuge Harbor, E. breakwater.	34° 45.0' N 131° 09.0' E	Iso.R. period 4s	39 12	11	Red round concrete tower; 28.	
1758 M 7374	-W. breakwater.	34° 45.5' N 131° 09.4' E	F.Fl.R. period 4s	46 14	F. 5 Fl 9	Red tower; 33.	
1760 M 7369.6	-Utu Oware, breakwater.	34° 46.8' N 131° 09.2' E	F.Fl.(2)R. period 6s	46 14	F. 6 Fl 12	Red round metal structure; 29.	
1764 M 7368	-N. end.	34° 48.0' N 131° 08.0' E	Fl.(2)W. period 30s 2 fl. 10s, ec. 20s	187 57	20	White quadrangular concrete tower; 46.	Visible 022° -307°.
1768 M 7369	-Utsu Ko, N. breakwater, head.	34° 46.8' N 131° 08.9' E	Fl.R. period 4s	23 7	3	Red tower; 16.	
1776 M 7360.4	-N. breakwater.	34° 37.2' N 131° 36.2' E	Oc.R. period 8s lt. 6s, ec. 2s	27 8	7	Red concrete structure; 19.	
1780 M 7360	Susa Ko, on Tenjin Shima.	34° 37.7' N 131° 35.0' E	Fl.W. period 3s	171 52	12	White round concrete tower; 25.	
1784 M 7359	Koyama Misaki.	34° 40.0' N 131° 37.0' E	Fl.W. period 15s	305 93	24	White square concrete tower; 39.	Visible 060° -257°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-NORTHWEST COAST							
1788 <i>M 7358</i>	Esaki Ko, Ryuzin Saki.	34° 39.0' N 131° 38.9' E	Oc.W. period 8s	36 11	11	White round concrete tower; 30.	
1792 <i>M 7358.4</i>	-Range, front.	34° 39.0' N 131° 39.0' E	F.G.	19 6	9	White round concrete tower, arrow topmark; 16.	
1796 <i>M 7358.41</i>	--Rear.	34° 38.5' N 131° 38.5' E	F.G.	33 10	11	White round concrete tower, arrow topmark; 32.	
1800 <i>M 7357</i>	Iinoura Ko, N. breakwater.	34° 40.4' N 131° 42.3' E	F.FI.(2)R. period 10s 2 fl. 3s, ec. 7s	49 15	F. 6 Fl 12	Red round concrete structure; 31.	
1804 <i>M 7352.4</i>	Taka Shima.	34° 50.0' N 131° 50.0' E	Fl.W. period 8s	413 126	19	White round concrete tower; 49.	
1808 <i>M 7355</i>	Iwami Ohama Ko, N. breakwater.	34° 44.4' N 131° 52.4' E	Fl.R. period 3s	31 9	6	Red tower; 18.	
1812 <i>M 7354</i>	Uomachino Hana.	34° 45.0' N 131° 52.0' E	Iso.W. period 6s	112 34	16	White round concrete tower; 36.	
1816	Sutsu Ko Oki, breakwater.	34° 46.6' N 131° 54.8' E	F.FI.R. period 6s	39 12	F. 3 Fl 7	Red round concrete tower; 31.	
1820 <i>M 7351.5</i>	Hamada Ko, N.	34° 51.0' N 132° 01.0' E	Iso.G. period 4s	43 13	12	White round concrete tower; 31.	
1824 <i>M 7348</i>	Uma Shima.	34° 54.0' N 132° 02.9' E	Fl.(2)W. period 12s 2 fl. 4s, ec. 8s	112 34	16	White round brick tower; 31.	Visible 357° -229° . Auxiliary F.W. shows only over Koise Shima.
1828 <i>M 7349</i>	Shakkuri, Hamada Ko.	34° 53.2' N 132° 02.5' E	Fl.(2)W. period 5s	59 18	12	ISOLATED DANGER BRB, beacon, topmark; 52.	
1832 <i>M 7349.15</i>	-Breakwater, head.	34° 53.7' N 132° 03.3' E	Fl.(2)G. period 6s	46 14	3	White tower; 31.	
1838 <i>M 7349.3</i>	-W. Offing breakwater, head.	34° 53.4' N 132° 03.5' E	F.FI.(2)R. period 6s	43 13	F. 6 Fl 12	Red round concrete tower; 28.	
1840 <i>M 7349.2</i>	-Breakwater, head.	34° 53.7' N 132° 03.5' E	Fl.R. period 4s	46 14	3	Red tower; 31.	
1844 <i>M 7348.5</i>	Hamada Ko.	34° 53.6' N 132° 03.6' E	Iso.G. period 6s	46 14	12	White round concrete tower; 31.	F.W. illuminates danger 120 meters WSW.
1848 <i>M 7351</i>	-W. breakwater, head.	34° 52.6' N 132° 03.0' E	Iso.R. period 4s	43 13	12	Red cylindrical concrete structure; 31.	
1852 <i>M 7347.4</i>	Togane Ko, S. breakwater.	34° 56.0' N 132° 07.0' E	F.FI.R. period 6s	39 12	F. 6 Fl 11	Red round concrete tower; 31.	
1856 <i>M 7347</i>	Iwami Osaki Hana.	34° 58.4' N 132° 09.3' E	Fl.W. period 10s	236 72	22	White round concrete structure; 52.	Visible 054° -226° .
1860 <i>M 7346.5</i>	Gosu.	35° 01.7' N 132° 14.2' E	Iso.W. period 6s	213 65	20	White round concrete tower; 33.	F.W. at Waki 2M SW. Spotlight illuminates training wall head, 78 meters WSW.
1864 <i>M 7346.4</i>	Kuromatsu Ko, breakwater.	35° 04.0' N 132° 19.0' E	F.FI.G. period 3s	46 14	F. 5 Fl 12	White round tower; 31.	
1868 <i>M 7346</i>	Yunotsu Ko.	35° 05.9' N 132° 20.3' E	Fl.W.R. period 2s	223 68	12	White round concrete tower; 33.	R. 129° -181° , W. elsewhere.
1872 <i>M 7346.2</i>	-E. breakwater.	35° 05.7' N 132° 20.3' E	F.FI.G. period 6s	39 12	F. 3 Fl 7	White tower; 28.	
1876 <i>M 7345</i>	Nima Ko, offing breakwater.	35° 09.5' N 132° 23.9' E	Fl.G. period 3s	46 14	7	White round concrete tower; 39.	
1880 <i>M 7344</i>	Nima Ko, E. breakwater, head.	35° 09.5' N 132° 24.0' E	F.G.	36 11	9	White round concrete structure; 32.	
1884 <i>M 7343.6</i>	Takuno Ko, W. breakwater.	35° 10.1' N 132° 24.1' E	Fl.R. period 3s	46 14	3	Red round concrete tower; 31.	

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JAPAN-HONSHU-NORTHWEST COAST							
1888 <i>M 7342</i>	O Misaki.	35° 11.0' N 132° 25.0' E	Fl.W. period 6s	226 69	21	White round concrete tower; 43.	
1892 <i>M 7343</i>	-Isotake Ko Kagami-ga Hana, breakwater.	35° 11.0' N 132° 25.0' E	Iso.G. period 6s	46 14	12	White round concrete tower; 43.	
1896 <i>M 7343.2</i>	--Tomari-ga-Hana, breakwater.	35° 11.0' N 132° 25.4' E	Iso.R. period 6s	30 9	10	Red round concrete tower; 28.	
1900 <i>M 7341.4</i>	Wae Ko, offing breakwater.	35° 12.6' N 132° 28.2' E	F.Fl.G. period 3s	43 13	F. 5 Fl 12	White round concrete structure; 28.	
1904 <i>M 7341</i>	Kute Ko, W. breakwater.	35° 14.0' N 132° 30.0' E	F.Fl.R. period 4s	39 12	F. 6 Fl 11	Red round concrete structure; 31.	
1912 <i>M 7341.2</i>	-N. breakwater.	35° 13.7' N 132° 30.2' E	Fl.G. period 3s	43 13	8	White round concrete tower; 28.	
1916 <i>M 7338</i>	-Tategami Hana.	35° 14.6' N 132° 31.8' E	Fl.(4)W. period 15s 4 fl. 7s, ec. 8s	305 93	20	White round concrete tower; 33.	
1920 <i>M 7339</i>	Hane Higasi Ko, S. breakwater.	35° 14.5' N 132° 31.8' E	Oc.R. period 4s	36 11	11	Red round concrete tower; 31.	
1922 <i>M 7337.6</i>	Oda Ko.	35° 16.6' N 132° 36.3' E	Fl.R. period 3s	28 9	6	Red concrete tower; 19.	
TAISHA KO:							
1924 <i>M 7336</i>	-W. jetty, head.	35° 24.0' N 132° 40.0' E	Iso.G. period 4s	27 8	6	White round concrete structure; 26.	
1928 <i>M 7336.4</i>	-E. breakwater, head.	35° 23.9' N 132° 40.0' E	Fl.R. period 4s	43 13	12	Red round concrete structure; 27.	
1932 <i>M 7337</i>	-Outer breakwater, S. head.	35° 24.0' N 132° 39.7' E	Fl.G. period 4s	43 13	7	White round concrete structure; 32.	
1936 <i>M 7334</i>	Hino Misaki.	35° 25.8' N 132° 37.9' E	Al.Fl.(2+1)W.R. period 20s	207 63	21	White round stone tower; 145.	Visible 024° -245° . F. light close NE. illuminates Saka Guri to N.
1940 <i>M 7335</i>	Uryo Ko, breakwater.	35° 26.0' N 132° 38.4' E	Oc.G. period 4s lt. 3s, ec. 1s	39 12	4	White round concrete tower; 31.	
1944 <i>M 7333.5</i>	Sagiura.	35° 27.0' N 132° 41.0' E	Fl.W. period 4s	187 57	20	White round concrete tower; 27.	
1948 <i>M 7333.7</i>	-Breakwater.	35° 26.5' N 132° 41.2' E	F.Fl.G. period 3s	39 12	F. 3 Fl 7	White round concrete tower; 31.	
1952 <i>M 7333.2</i>	-Breakwater, head.	35° 27.4' N 132° 44.9' E	Iso.G. period 6s	43 13	4	White concrete structure; 31.	
1956 <i>M 7333</i>	Uppurui Ha.	35° 28.2' N 132° 43.7' E	Fl.(2)W. period 6s	213 65	7	White round concrete tower; 21.	
1958 <i>M 7332</i>	Siotu Ko.	35° 28.6' N 132° 46.9' E	F.Fl.R. period 5s	46 14	F. 6 Fl 12	Red round concrete tower; 36.	
1960 <i>M 7331</i>	Nagaoka Hana.	35° 30.0' N 132° 50.1' E	Iso.W. period 6s	249 76	20	White round concrete tower; 33.	
ETOMO KO:							
1964 <i>M 7331.5</i>	-Koizu Ko, N. breakwater.	35° 30.0' N 132° 50.0' E	Fl.R. period 3s	39 12	11	Red round concrete structure; 28.	
1968 <i>M 7327.5</i>	-Oki breakwater, head.	35° 31.3' N 132° 58.2' E	Iso.G. period 6s	56 17	13	White structure; 46.	
1971 <i>M 7327</i>	-Breakwater.	35° 31.5' N 132° 58.2' E	F.Fl.G. period 6s	43 13	F. 6 Fl 10	White tower; 39.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-NORTHWEST COAST							
1972 M 7328	-S. breakwater.	35° 31.5' N 132° 58.3' E	F.F.I.R. period 6s	36 11	F. 3 Fl. 7	Red round concrete tower; 31.	
1976 M 7325	-Etomo.	35° 32.4' N 132° 58.3' E	Oc.W. period 8s lt. 5s, ec. 3s	190 58	20	White round concrete tower; 31.	
1980 M 7325.4	--E. breakwater, head.	35° 32.3' N 132° 58.2' E	Oc.G. period 5s lt. 4s, ec. 1s	39 12	11	White round structure; 31.	F.W. light illuminates reef 140 meters N.
1984 M 7326	-Kataku, E. breakwater.	35° 32.2' N 132° 59.2' E	F.F.I.G. period 3s	39 12	F. 5 Fl. 11	White round tower; 31.	F.W. illuminates head of W. breakwater.
1988 M 7324.7	Mizu Ko.	35° 32.5' N 133° 01.6' E	Iso.G. period 6s	46 14	4	White round concrete structure; 31.	
1992 M 7324.6	Mizu Ko, W. offing, breakwater.	35° 32.2' N 133° 01.8' E	Iso.R. period 6s	42 13	8	Red round concrete structure; 31.	
1996 M 7324.5	Kaga Ko.	35° 34.1' N 133° 03.3' E	Fl.R. period 3s	43 13	3	Red round concrete structure; 33.	
2000 M 7324.4	Kukedo Hana.	35° 34.6' N 133° 02.9' E	Fl.W. period 3s	115 35	7	White round concrete tower; 33.	
2004 M 7324	Tako Hana.	35° 36.0' N 133° 05.5' E	Fl.W. period 10s	371 113	26	White round concrete tower; 23.	Visible 059° -285°.
2006	Zizo Saki, breakwater.	35° 35.2' N 133° 07.0' E	Fl.R. period 4s	30 9	6	Red tower; 22.	
2008 M 7318.6	Noi Ko offing, breakwater.	35° 34.9' N 133° 07.4' E	F.F.I.G. period 4s	39 12	F. 6 Fl. 11	White round concrete structure; 31.	
2010 M 7318	Kasaura Ko.	35° 34.4' N 133° 08.3' E	Fl.G. period 3s	23 7	6	White tower; 17.	
2012 M 7318.4	Tunowa Hana.	35° 34.8' N 133° 08.5' E	Oc.(2)W. period 6s	112 34	16	White round concrete structure; 33.	F.W. illuminates islet 250 meters ENE.
2016 M 7314	Shichirui Ko.	35° 35.0' N 133° 15.0' E	Fl.(3)W. period 13s	148 45	18	Round concrete structure, red and white bands; 36.	F.W. light illuminates beacon on Fuma Shima 330 meters NE.
2020 M 7315	Tsuriboko Yama.	35° 34.3' N 133° 15.2' E	Iso.W. period 6s	400 122	17	White round concrete tower; 25.	
2024 M 7315.2	Schichirui Ko, detached breakwater.	35° 34.5' N 133° 14.1' E	F.F.I.G. period 5s	36 11	F. 5 Fl. 8	White round concrete tower on quadrangular base; 31.	
2028 M 7315.4	Sii Ya, breakwater, head.	35° 34.3' N 133° 13.9' E	Iso.R. period 4s	33 10	7	Red round concrete tower; 28.	
OKI RETTO:							
2032 M 7321.2	-Oki Okini Saki, on Saigo Misaki.	36° 21.3' N 133° 16.6' E	Fl.W. period 5s	269 82	5	White round concrete tower; 43.	
2036 M 7321.25	-Oki Syoto.	36° 20.2' N 133° 17.1' E	Fl.W. period 15s	846 258	37	White round concrete tower on square base; 52.	Visible 081° -293°.
-RAMARK							
2040 M 7321.16	-Nakamura Ko, breakwater, head.	36° 19.5' N 133° 19.1' E	Fl.(2)R. period 6s	49 15	10	Red tower; 37.	
2044 M 7321.14	-Sakiyama Misaki.	36° 18.0' N 133° 22.0' E	Iso.W. period 6s	308 94	20	White round concrete structure; 33.	F.W. illuminates rock 700 meters SE.
2046 M 7321.12	Huse Ko.	36° 17.4' N 133° 21.9' E	Fl.R. period 3s	33 10	6	Red concrete structure; 22.	
2048 M 7321.1	-Kuroshima Saki.	36° 16.0' N 133° 23.3' E	Fl.(3)W. period 13s	98 30	15	White round concrete structure; 33.	F.W. illuminates Kabi Sima about 500 meters ENE.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-NORTHWEST COAST							
2052 M 7320.8	-Ikeziri Saki.	36° 12.0' N 133° 22.0' E	Fl.W. period 3s	354 108	12	White round concrete structure.	
2056 M 7320.2	-Saigo Ko, Hime Sima.	36° 11.6' N 133° 20.5' E	Mo.(A)R. period 8s	39 12	9	STARBOARD (B) R, beacon, topmark; 36.	
2060 M 7320.4	-Saigo Wan, detached breakwater, E. head.	36° 12.0' N 133° 20.0' E	Fl.G. period 3s	31 9	8	White round concrete tower; 28.	
2064 M 7320	-Shiro Saki , Dogo, SE. point.	36° 10.3' N 133° 20.4' E	Fl.(2)W. period 30s	358 109	22	White square concrete tower; 36.	Visible 173° -082° .
2068 M 7319.8	-Imazu Ko, W. breakwater.	36° 10.4' N 133° 18.5' E	Oc.G. period 4s lt. 3s, ec. 1s	39 12	9	White round concrete structure; 31.	
2069	-Siziki Sima, W. breakwater.	36° 10.2' N 133° 17.0' E	Fl.(2)G. period 6s	26 8	5	White tower; 16.	
2070 M 7319.75	-Tudo Ko, breakwater.	36° 09.8' N 133° 14.7' E	Fl.G. period 3s	26 8	6	White tower; 31.	
2072 M 7319.7	-Okí Syaguri.	36° 09.6' N 133° 14.7' E	Fl.(2)W. period 5s	49 15	9	ISOLATED DANGER BRB, beacon, topmark; 43.	
2076 M 7319.5	-Shijiki Shima.	36° 09.0' N 133° 14.0' E	Fl.W. period 5s	92 28	12	White round concrete structure; 43.	
2080 M 7321.5	-Tsuma Ko, breakwater.	36° 11.0' N 133° 14.0' E	Oc.G. period 4s lt. 3s, ec. 1s	39 12	11	White round concrete structure; 31.	
2082 M 7321.42	-Breakwater, head.	36° 12.6' N 133° 11.8' E	Fl.R. period 5s	26 8	7		
2084 M 7321.4	-Nagu Saki.	36° 12.7' N 133° 11.1' E	Fl.W. period 5s	151 46	7	White round concrete tower; 39.	
2088 M 7321.3	-Mi Saki.	36° 17.0' N 133° 11.0' E	Fl.W. period 4s	197 60	20	White round concrete structure; 33.	
DOZEN:							
2092 M 7323	-Chiburi Jima.	35° 59.9' N 133° 03.6' E	Al.Fl.W.R. period 20s	519 158	W. 20 R. 16	White round concrete tower; 39.	
2096 M 7323.2	-Tibu Ko.	36° 00.3' N 133° 02.7' E	Mo.(A)R. period 9s	33 10	5	STARBOARD (B) R, beacon, topmark; 30.	
2098 M 7323.21	--W. breakwater.	36° 00.1' N 133° 02.1' E	Iso.G. period 4s	26 8	6	White concrete tower; 19.	
2100 M 7323.24	-Kurii Ko, breakwater.	36° 01.6' N 133° 02.5' E	Fl.G. period 3s	46 14	5	White round concrete tower; 36.	
2104 M 7323.5	-Akanada Hana.	36° 02.3' N 132° 59.9' E	Fl.W. period 4s	72 22	7		
2108 M 7323.8	-Mitabe Ko, breakwater.	36° 04.0' N 132° 57.0' E	Oc.G. period 4s	39 12	11	White round concrete structure; 31.	
2112 M 7323.7	-Mitabe Misaki.	36° 03.8' N 132° 57.0' E	Fl.W. period 12s	410 125	27	White quadrangular concrete structure; 32.	Visible 306° -184° .
2116 M 7323.4	-Urago Ko, breakwater.	36° 06.4' N 133° 00.5' E	Fl.R. period 3s	39 12	11	Red round concrete structure; 31.	
2120 M 7323.36	-Urago Ko, Benten, breakwater.	36° 05.5' N 132° 59.7' E	F.Fl.R. period 5s	32 10	F. 3 Fl 7	Red round concrete tower; 28.	
2124 M 7323.44	-Urago Ko, breakwater.	36° 05.0' N 132° 59.0' E	Oc.G. period 4s	36 11	11	White round concrete structure; 31.	
2128 M 7323.6	-Mugiyama Hana.	36° 04.0' N 133° 02.0' E	Fl.R. period 3s	125 38	9	Red round concrete structure; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-NORTHWEST COAST							
2132 M 7322.6	-Saki Ko, breakwater.	36° 02.9' N 133° 05.5' E	F.I.G. period 5s	36 11	F. 5 Fl 11	White round concrete tower; 31.	
2136 M 7322	-Takada Hana.	36° 03.0' N 133° 06.2' E	Fl.W. period 3s	346 105	7	White round concrete tower; 24.	
2140 M 7322.8	-Kiroga Saki.	36° 01.9' N 133° 04.3' E	Fl.W. period 5s	134 41	12	White round concrete structure; 39.	
2144	-Matsuga Saki.	36° 06.0' N 133° 04.0' E	Fl.W. period 3s	43 13	9	White round concrete structure.	
2148 M 7321.77	-Kamo Sima.	36° 06.9' N 133° 05.5' E	Fl.(2)W. period 5s	46 14	9	ISOLATED DANGER BRB, beacon, topmark; 40.	
2152 M 7321.7	-Komori Sima.	36° 07.7' N 133° 07.3' E	Fl.(3)W. period 12s	203 62	7	White quadrangular tower; 23.	
2156 M 7321.94	-Titi Ko, breakwater.	36° 04.7' N 133° 07.0' E	Fl.G. period 4s	36 11	3	White round concrete structure; 31.	
2160 M 7321.9	-Titi Misaki.	36° 04.3' N 133° 09.3' E	Fl.(3)W. period 15s	92 28	15	Red concrete structure, white bands; 33.	
2164 M 7321.74	-Lki Shoto.	36° 06.6' N 133° 07.9' E	Fl.W. period 5s	262 80	13	White round concrete structure; 31.	F.W. illuminates reef close NE.
2166 M 7321.8	-Oki Toyoda Ko, N. breakwater.	36° 06.2' N 133° 07.9' E	Oc.R. period 4s	42 13	12	Red round concrete tower; 31.	
2168 M 7315.6	Okino-gozen Shima.	35° 35.2' N 133° 21.2' E	Fl.W. period 3s	46 14	12	White round concrete tower; 32.	
MIHO WAN:							
2172 M 7316	-Jizo Zaki.	35° 34.0' N 133° 19.5' E	Fl.W. period 12s	271 83	23	White round stone tower; 46.	Visible 115° -052° .
2176 M 7317	-Mihonoseki Ko, E. breakwater.	35° 33.4' N 133° 18.7' E	Iso.R. period 6s	36 11	11	Square stone structure; 27.	
2180 M 7294	-Sakai Ko, S. breakwater, head.	35° 33.0' N 133° 16.0' E	Iso.W. period 6s	43 13	12	White round concrete tower; 46.	
2182 M 7294.5	Sakai Ko.	35° 32.7' N 133° 16.7' E	Fl.G. period 3s	52 16	11	White tower; 46.	
2184 M 7296	-255° 30' .	35° 32.9' N 133° 14.4' E	Dir.F.W.R.G.	59 18	W. 9 R. 7 G. 8	White round fiberglass structure, red bands; 66.	R. 253° 54' -254° 54' , W.-256° 06' , G.-257° 06' . Iso.Y. 2s above main light.
2188 M 7297	-Sakai Ko Nakano, No. 1 breakwater, head.	35° 31.7' N 133° 15.1' E	Oc.R. period 4s lt. 3s, ec. 1s	36 11	7	Red tower; 31.	
2190	-Inner breakwater.	35° 30.7' N 133° 15.4' E	Fl.R. period 3s	25 8	3	Red tower; 16.	
NAKANO UMI:							
2192 M 7306	-Kame Sima.	35° 26.3' N 133° 15.6' E	Fl.W. period 4s	39 12	11	White round concrete tower; 29.	
2196 M 7307	-Yasugi Ko, S. breakwater.	35° 26.0' N 133° 16.0' E	F.F.I.R. period 5s	30 9	F. 6 Fl 11	Red round concrete tower; 28.	
2200 M 7308	-Yonago Ko, breakwater, head.	35° 25.7' N 133° 19.2' E	Iso.G. period 4s	22 7	3	White round concrete tower; 16.	
2204 M 7305	-Sakitsu Ko, breakwater.	35° 28.2' N 133° 15.0' E	Fl.(2)G. period 6s	30 9	6	White tower; 28.	
2208 M 7300	Miho Wan AVIATION LIGHT.	35° 30.0' N 133° 14.0' E	Al.F.I.W.G. period 10s	118 36		Iron framework tower; 101.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-NORTHWEST COAST							
2212 M 7304	-Suraga Hana.	35° 32.0' N 133° 12.0' E	Fl.R. period 3s	40 12	9	Red round concrete structure; 33.	
2216 M 7293.5	Yodoe Ko, N. breakwater.	35° 27.6' N 133° 25.7' E	Iso.G. period 4s	43 13	12	White round concrete tower; 29.	F.W. illuminates head of W. breakwater.
2220 M 7293	Mikuriya, W. breakwater.	35° 30.9' N 133° 29.6' E	Fl.(2)G. period 6s	29 9	4	White round concrete tower; 18.	
2224 M 7292	Misaki Ko, breakwater.	35° 31.6' N 133° 35.7' E	Iso.R. period 4s	49 15	12	Red round concrete structure; 33.	
2228 M 7290	Akasaki Ko, E. breakwater, head.	35° 30.5' N 133° 39.7' E	Oc.G. period 8s	36 11	6	White round concrete tower; 31.	
2232 M 7290.2	-W. breakwater.	35° 30.6' N 133° 39.8' E	Fl.R. period 3s	49 15	9	Red round concrete tower; 31.	
2236 M 7289.2	Tomari Ko.	35° 30.9' N 133° 56.7' E	Fl.W. period 4s	115 35	16	White round concrete structure, square base; 33.	F.W. illuminates reef 150 meters NW.
2240 M 7289.4	-W. breakwater.	35° 30.8' N 133° 56.4' E	Fl.R. period 4s	43 13	5	Red round concrete structure; 31.	
2244 M 7289.3	-N. breakwater.	35° 30.9' N 133° 56.4' E	Fl.G. period 4s	39 12	3	White round concrete tower; 36.	
2248 M 7289.14	Nakose Ko, breakwater.	35° 31.0' N 133° 58.0' E	Iso.G. period 6s	36 11	11	White round concrete structure; 31.	F.W. illuminates NE. end of breakwater.
2252 M 7289.1	Natsudomari Ko, breakwater.	35° 31.8' N 134° 00.0' E	Fl.G. period 3s	52 16	8	White tower; 28.	
2256 M 7289	Nagao Hana.	35° 32.0' N 134° 01.0' E	Fl.W. period 8s	223 68	21	White round concrete tower; 43.	Visible 052° -305°.
2260 M 7288.9	Funaiso Ko, E. breakwater.	35° 31.4' N 134° 01.2' E	Fl.(2)G. period 6s	49 15	5	White round concrete structure; 31.	
2264 M 7288.6	Sakenotsu Ko.	35° 31.3' N 134° 05.5' E	Fl.W. period 3s	194 59	17	White round concrete tower; 25.	
2268 M 7288.8	-E. No. 3 breakwater.	35° 31.3' N 134° 05.5' E	Oc.G. period 4s lt. 3s, ec. 1s	39 12	11	White round concrete tower; 31.	F.W. illuminates breakwater head 60 meters westward.
2276 M 7287.5	-Toriga Shima.	35° 32.6' N 134° 11.0' E	Fl.W. period 5s	108 33	7	White round concrete tower; 36.	
2280	-Outer breakwater.	35° 32.8' N 134° 11.3' E	Fl.R. period 4s	56 17	11	Red round concrete tower; 39.	
2286 M 7287.6	-Breakwater.	35° 32.8' N 134° 11.5' E	F.Fl.G. period 4s	42 13	F 2 Fl 5	White concrete structure; 27.	
2288 M 7287	-NE. breakwater.	35° 32.8' N 134° 11.1' E	Fl.(2)R. period 6s	42 13	5	Red round concrete tower; 28.	
2292 M 7286.4	Iwato Ko.	35° 33.8' N 134° 16.6' E	Iso.G. period 6s	46 14	12	White round concrete tower; 29.	
AZIRO KO:							
2296 M 7286	-Aziro Saki.	35° 35.0' N 134° 17.8' E	Fl.W. period 12s	344 105	25	White round concrete tower; 27.	
2298 M 7285.5	-W. breakwater.	35° 34.9' N 134° 17.3' E	Fl.(2)R. period 6s	33 10	3	Red tower; 19.	
2300 M 7284	-N. breakwater, head.	35° 34.8' N 134° 17.5' E	Fl.G. period 3s	49 15	12	White round concrete tower; 36.	
2304 M 7285	-S. breakwater, head.	35° 34.8' N 134° 17.6' E	Fl.R. period 3s	39 12	11	Red round concrete tower; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-NORTHWEST COAST							
TAZIRI KO:							
2308 <i>M 7283.9</i>	-Taziri.	35° 35.7' N 134° 19.0' E	Oc.W. period 4s lt. 3s, ec. 1s	108 33	14	White round structure; 31.	
2312 <i>M 7283.96</i>	--Breakwater No. 5.	35° 35.7' N 134° 19.1' E	Fl.G. period 3s	39 12	3	White round concrete structure; 31.	
2316 <i>M 7283.94</i>	-U Shima.	35° 35.8' N 134° 19.2' E	Fl.R. period 3s	46 14	3	Red tower; 30.	
2320 <i>M 7283.85</i>	Obaneo.	35° 36.0' N 134° 21.0' E	Iso.W. period 8s	246 75	20	White round concrete tower; 25.	
IKUMI KO:							
2324 <i>M 7283.84</i>	-Hudosan.	35° 36.9' N 134° 23.1' E	F.Fl.R. period 4s	36 11	F. 5 Fl 9	White round concrete tower; 33.	F.W. auxiliary light.
2328 <i>M 7283.8</i>	-Beacon on rock.	35° 37.0' N 134° 23.1' E	Fl.W. period 5s	217 66	12	White round concrete tower; 36.	F.W. light illuminates the beacons on Yoko Sima rocky reef and Koburi Sima.
MOROYOSE KO:							
2332 <i>M 7283.6</i>	-Hiyori Yama.	35° 37.4' N 134° 25.7' E	Iso.W. period 6s	144 44	13	White tower; 30.	2 F.W. lights illuminate the beacon on drying rock about 200 meters 003° .
2336 <i>M 7283.7</i>	-N. detached breakwater, S. head.	35° 37.3' N 134° 25.9' E	Iso.R. period 6s	42 13	4	Red round concrete tower; 27.	
2340 <i>M 7283.57</i>	Yazyoga Hana.	35° 38.1' N 134° 26.3' E	Oc.(2)W. period 6s	243 74	13	White tower; 33.	F.W. light illuminates Fuda Shima about 60 meters 000° .
2344 <i>M 7283.59</i>	Hamaska Ko, E. breakwater.	35° 37.8' N 134° 26.7' E	Oc.G. period 4s	39 12	6	White round concrete tower; 29.	
HAMASK KO:							
2348 <i>M 7283.58</i>	-N. breakwater.	35° 37.8' N 134° 26.7' E	Oc.R. period 4s	43 13	12	Red round concrete structure; 33.	
2352 <i>M 7283.52</i>	Mio O Shima.	35° 39.7' N 134° 30.2' E	Fl.W. period 4s	233 71	7	White round concrete tower; 28.	
2356 <i>M 7283.54</i>	Mio Ko, breakwater.	35° 39.3' N 134° 30.0' E	F.Fl.G. period 5s	39 12	F. 3 Fl 7	White round concrete structure; 31.	
2360 <i>M 7283.5</i>	Amarube Saki.	35° 40.0' N 134° 33.0' E	Fl.W. period 15s	932 284	39	White octagonal iron tower; 46.	Visible 070° -314° .
2364 <i>M 7283.51</i>	-N.	35° 40.0' N 134° 33.2' E	Iso.W. period 4s	118 36	17	White quadrangular iron framework structure; 23.	Reserve light range 14M.
2368 <i>M 7283.4</i>	Yori Ko, No. 1 breakwater.	35° 39.1' N 134° 34.7' E	Oc.R. period 4s lt. 3s, ec. 1s	46 14	12	Red round concrete tower; 31.	
2372 <i>M 7283.2</i>	Shimoiama, breakwater.	35° 38.6' N 134° 37.0' E	Oc.R. period 8s lt. 6s, ec. 2s	36 11	11	Red round concrete tower; 28.	
2376 <i>M 7281</i>	Kasumi Ko.	35° 39.0' N 134° 38.0' E	Iso.W. period 6s	289 88	20	White round concrete tower; 22.	
2380 <i>M 7281.5</i>	-Breakwater, head.	35° 39.3' N 134° 38.2' E	F.Fl.R. period 4s	56 17	F. 2 Fl 5	Red tower; 31.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-NORTHWEST COAST							
2384 M 7283.3	-N. breakwater.	35° 38.8' N 134° 37.7' E	Fl.R. period 3s	39 12	3	Red round concrete tower; 33.	
SHIROYAMA:							
2392 M 7282	-S. breakwater.	35° 39.0' N 134° 38.0' E	Iso.R. period 4s	36 11	11	Red round concrete tower; 33.	
2396 M 7283	-N. breakwater.	35° 38.8' N 134° 37.6' E	Fl.G. period 3s	43 13	3	White octagonal tower; 31.	
2400 M 7280	Shibayama Ko.	35° 40.0' N 134° 40.0' E	Oc.W. period 4s lt. 3s, ec. 1s	325 99	20	White round concrete structure, quadrangular concrete base; 31.	
2401	-Breakwater.	35° 40.1' N 134° 39.9' E	Fl.Y. period 4s	39 12	3		
2401.01	-E. Breakwater.	35° 40.1' N 134° 40.0' E	Fl.R. period 4s	62 19	3	Red tower; 30.	
2401.1	-Inner breakwater.	35° 39.7' N 134° 40.5' E	Fl.W. period 4s	62 19	6	White tower; 9.	
2402 M 7280.7	Sibayama Ko.	35° 39.3' N 134° 40.2' E	Fl.G. period 3s	46 14	8	White tower; 32.	
2408 M 7280.4	-W. breakwater, head.	35° 39.3' N 134° 39.9' E	Fl.R. period 5s	39 12	3	Red round concrete tower; 28.	
2412 M 7278.6	Neko Saki.	35° 40.3' N 134° 46.0' E	Fl.(2)W. period 7s	141 43	18	White concrete structure; 32.	
TAKENO BENTEN SHIMA:							
2416 M 7279	-N. Breakwater.	35° 39.6' N 134° 45.5' E	F.Fl.G. period 5s	36 11	F. 5 Fl 11	White round concrete tower; 28.	
2420 M 7279.1	-Takeno Range, front.	35° 39.0' N 134° 46.0' E	F.G.	46 14	12	White round concrete tower, triangular topmark; 18.	
2424 M 7279.2	--Rear, 18 meters 167° from front.	35° 39.5' N 134° 45.5' E	F.G.	56 17	13	White round concrete tower, triangular topmark; 30.	
TSUIYAMA KO:							
2428 M 7276	-Sarugajo.	35° 39.0' N 134° 51.0' E	Fl.W. period 4s	151 46	18	White round concrete structure; 31.	F. light illuminates rock 180 meters NE.
2432 M 7277	-Training Wall.	35° 38.9' N 134° 50.5' E	Iso.R. period 6s	39 12	11	Red round concrete tower; 33.	
2436 M 7278	-New groin, about 604 meters 133° from Onaru Yama Summit.	35° 39.0' N 134° 50.4' E	Iso.G. period 6s	26 8	4	White square framework tower; 20.	F.W. auxiliary light illuminates head of groin.
2440 M 7275	-Sutego Hana.	35° 39.4' N 134° 51.3' E	Iso.W. period 6s	184 56	20	Round tower, red and white bands; 33.	
2443 M 7274.7	Kumihama Ko, breakwater.	35° 39.0' N 134° 54.1' E	Fl.R. period 3s	36 11	4	Red round concrete tower; 28.	
2444 M 7274.5	-S. breakwater.	35° 38.9' N 134° 54.1' E	Fl.G. period 3s	43 13	7	White round concrete tower; 39.	
2448 M 7274.4	Hamazuma Ko.	35° 40.4' N 134° 57.8' E	Fl.(2)G. period 6s	43 13	4	White round concrete tower, square base; 31.	
2452 M 7274.2	Hamazuma Ko Shioe, breakwater.	35° 40.4' N 134° 58.5' E	Oc.R. period 5s	33 10	11	Red round concrete tower; 31.	
2456 M 7274	Asamokawa Ko, E. groin.	35° 41.4' N 135° 01.2' E	F.Fl.G. period 4s	36 11	F. 5 Fl 11	White round concrete structure; 32.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-NORTHWEST COAST							
2460 M 7274.1	-E. inner breakwater.	35° 41.0' N 135° 01.0' E	Oc.G. period 4s lt. 3s, ec. 1s	39 12	12	White round concrete structure; 31.	
2464	Mitsu Ko, breakwater.	35° 42.6' N 135° 03.9' E	F.Fl.R. period 3s	39 12	F. 6 Fl 11	Red round concrete structure; 31.	
2468 M 7272	Taiza Ko, entrance.	35° 44.3' N 135° 05.6' E	F.Fl.(2)G. period 7s	56 17	F. 6 Fl 13	White round concrete tower; 31.	F. illuminates reef 30 meters W. DGPS Station.
2472 M 7271.6	Tango Takeno Ko.	35° 44.5' N 135° 06.9' E	Fl.R. period 3s	33 10	11	Red round concrete tower; 28.	
2476 M 7271.4	Nakahama Ko, detached breakwater, No. 2.	35° 45.7' N 135° 10.8' E	Fl.(2)R. period 6s	49 15	7	Red round concrete structure; 31.	
2480 M 7270	Kyoga Misaki.	35° 46.6' N 135° 13.4' E	Fl.(3)W. period 20s 3 fl. 8s, ec. 12s	486 148	29	White round stone tower; 39.	Visible 076° -314°.
2484 M 7269.7	Honjo Ko, N. breakwater.	35° 45.0' N 135° 16.0' E	F.Fl.(2)R. period 8s	43 13	F. 6 Fl 12	Red round concrete tower; 31.	
2486	Nii Saki.	35° 41.5' N 135° 18.4' E	Fl.R. period 3s	30 9	3	Red tower; 16.	
2488 M 7269.4	Washi Zaki.	35° 40.0' N 135° 18.0' E	Fl.W. period 3s	256 78	12	White round concrete structure; 36.	
2492 M 7269.5	Ine Ko.	35° 39.7' N 135° 17.1' E	Fl.W. period 4s	170 52	12	White round concrete tower; 36.	
2496 M 7269.6	-Kanjagahana.	35° 40.0' N 135° 17.0' E	Fl.R. period 3s	29 9	5	Red round concrete structure; 28.	
MAIZURU WAN:							
2500 M 7269.3	-Miyazu Wan.	35° 35.7' N 135° 15.4' E	Fl.(2)W. period 6s	407 124	17	White round concrete tower; 43.	
2504 M 7258	-Bakuchi Misaki.	35° 32.9' N 135° 20.5' E	Fl.W. period 10s	423 129	19	White square concrete tower; 39.	Visible 018° -258°.
2512 M 7260	--Sanbonmatsu.	35° 30.2' N 135° 20.6' E	Fl.G. period 3s	43 13	5	White round concrete tower; 21.	
2516 M 7259	-Miyo Saki.	35° 30.1' N 135° 22.8' E	Fl.(3)W. period 13s	33 10	5	White round concrete tower; 30.	
2518 M 7262	-Kuro Hana. Maizuru Crane Bridge.	35° 30.6' N 135° 23.3' E	2 Iso.W. period 6s	82 25	5	On bridge.	2 Iso.W. marks center. Vertical clearance 24 meters. Bridge marked by 2 Iso.G., 2 Iso.R., and 4 Fl.Y.
2520 M 7261	-To Shima.	35° 29.6' N 135° 20.3' E	Fl.W. period 4s	36 11	5	White round concrete tower; 33.	
2524 M 7261.4	-Kita, breakwater.	35° 27.4' N 135° 19.0' E	F.Fl.R. period 3s	33 10	F. 3 Fl 7	Red tower; 31.	
2528 M 7256.6	Tai Ko, No. 2 breakwater.	35° 34.2' N 135° 27.2' E	F.Fl.G. period 5s	43 13	F. 2 Fl 5	White tower; 31.	
2532 M 7257.2	-No. 1 breakwater.	35° 34.7' N 135° 27.0' E	Fl.R. period 3s	36 11	5	Red round concrete structure; 31.	
2536 M 7257	Naryu Zaki, on point.	35° 35.9' N 135° 27.9' E	Fl.W. period 5s	308 94	14	White quadrangular concrete tower; 27.	
2538 M 7255.4	Uchiura Ko, breakwater, head.	35° 32.3' N 135° 29.6' E	Fl.G. period 3s	36 11	7	White tower; 27.	
2540 M 7255	Oshimawashi Saki.	35° 33.1' N 135° 30.1' E	Fl.(2)W. period 10s	525 160	7	White round concrete tower; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-NORTHWEST COAST							
2544 M 7254.4	Wakasa Takahama Ko, detached breakwater.	35° 29.8' N 135° 33.0' E	Oc.G. period 5s	49 15	5	White tower; 30.	
2548 M 7254	Shiroyama.	35° 29.8' N 135° 33.1' E	Fl.W. period 3s	89 27	10	White round concrete tower; 27.	
2552 M 7254.6	Wada Ko, N. breakwater.	35° 29.8' N 135° 34.4' E	Fl.(2)G. period 6s	39 12	3	White tower; 27.	
2554 M 7254.7	-Breakwater.	35° 30.0' N 135° 34.8' E	Fl.(2)R. period 6s	36 11	4	Red tower; 19.	
2556 M 7252	Nokogiri Saki.	35° 33.0' N 135° 40.0' E	Oc.(2)W. period 6s	85 26	15	White round concrete tower; 39.	Visible 093° -340°.
2560 M 7252.4	Akaguri Saki.	35° 31.5' N 135° 40.2' E	Fl.R. period 4s	75 23	5	White round concrete tower, red bands; 33.	
2564 M 7252.8	Obama Ko, W. breakwater.	35° 30.1' N 135° 43.9' E	Fl.(3)G. period 12s	32 10	7	White round concrete tower; 28.	
2568 M 7252.7	-Breakwater, head.	35° 30.3' N 135° 44.2' E	Fl.G. period 3s	36 11	5	White round concrete tower; 33.	
2572 M 7251.6	Tagarasu Ko, Myojin Hana.	35° 32.5' N 135° 49.6' E	Fl.(2)W. period 6s	79 24	9	White round concrete tower; 28.	
2576 M 7251.4	Kuro Guri.	35° 36.0' N 135° 50.0' E	Iso.W. period 6s	42 13	12	White round tower; 30.	
2580 M 7251	Tunekami Saki.	35° 38.0' N 135° 49.2' E	Fl.W. period 3s	800 244	24	White tower; 32.	
2584 M 7250.5	Hiruga Ko, breakwater.	35° 36.6' N 135° 53.7' E	Oc.R. period 4s	36 11	11	Red round tower; 28.	
2585	Hiruga Ko.	35° 36.7' N 135° 53.8' E	Oc.G. period 4s	30 9	6	White round concrete tower; 18.	
2588 M 7250	Hayase Ko, breakwater, head.	35° 36.8' N 135° 54.8' E	Iso.R. period 8s	31 9	7	Red round concrete tower; 19.	
2592 M 7249.6	Sugahama Ko, breakwater.	35° 39.2' N 135° 58.1' E	Iso.G. period 6s	42 13	6	White tower; 31.	
2596 M 7249	Funatosi Saki.	35° 42.0' N 135° 57.6' E	Iso.W. period 6s	198 60	20	White round concrete structure; 33.	F.W. illuminates Otogami Guri 350 meters W.
2600 M 7246	Tateishi Saki.	35° 46.0' N 136° 01.0' E	Fl.W. period 10s	400 122	27	White round tower; 26.	Visible 060° -319°.
2604 M 7247	Tsuruga Ko, breakwater, head.	35° 39.7' N 136° 03.7' E	Iso.G. period 6s	46 14	12	White round concrete tower; 39.	
2612 M 7248	-W. breakwater, N. head.	35° 39.5' N 136° 04.0' E	Oc.R. period 4s lt. 3s, ec. 1s	43 13	7	Red round concrete tower; 36.	
2616 M 7248.2	-E. breakwater.	35° 39.4' N 136° 03.8' E	Fl.R. period 3s	23 7	7	Red round concrete tower; 19.	
2620 M 7245.5	Kono Ko, No. 2 breakwater.	35° 49.3' N 136° 04.3' E	Oc.G. period 4s	39 12	11	White round concrete tower; 30.	
2624 M 7245	Kaburagi Ko, No. 1 breakwater.	35° 50.1' N 136° 03.0' E	F.Fl.(2)G. period 10s 2 fl. 3s, ec. 7s	43 13	F. 5 Fl 12	White tower; 36.	
2628 M 7244	Nuka Ko Oki, breakwater.	35° 50.8' N 136° 02.5' E	F.Fl.G. period 4s	42 13	F. 5 Fl 12	White round concrete structure; 36.	
2632 M 7243.8	Kare Zaki , about 10.9 kilometers 162° 30' from Echizen Misaki light.	35° 53.0' N 136° 00.0' E	Fl.(2)W. period 10s 2 fl. 4s, ec. 6s	154 47	18	White quadrangular concrete tower; 33.	
2636 M 7243.74	Takasa, No. 2 breakwater.	35° 53.5' N 136° 59.8' E	F.W.	65 20		White round concrete tower; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-NORTHWEST COAST							
2640 M 7243.7	Echizen Sirahama Ko, No. 1 breakwater.	35° 54.1' N 135° 59.8' E	Fl.(2)G. period 6s	33 10	5	White tower; 31.	
2648 M 7243.68	Kuriya, breakwater, head.	35° 56.0' N 136° 00.0' E	Fl.G. period 3s	43 13	12	White round tower; 31.	
2656 M 7243.64	Mitikuchi Ko, detached breakwater.	35° 55.9' N 135° 59.9' E	Oc.R. period 8s lt. 6s, ec. 2s	43 13	12	Red round concrete tower; 31.	
2666 M 7243.5	Etizen Gyoko, breakwater.	35° 56.1' N 135° 59.5' E	Iso.G. period 4s	52 16	10	White tower; 33.	
2668 M 7243	Kuro Jogatani, breakwater.	35° 56.6' N 135° 59.3' E	Oc.G. period 8s	46 14	12	White round concrete tower; 36.	Auxiliary F.W. light illuminates breakwater head about 40 meters S.
2672 M 7242.6	Sikaura Ko Singo, No. 2 breakwater.	35° 57.0' N 135° 59.1' E	Fl.(2)G. period 7s	36 11	3	White round concrete structure; 31.	
2676 M 7242	Echizen Misaki.	35° 59.0' N 135° 58.0' E	Fl.W. period 15s	436 133	28	White round concrete structure; 56.	Obscured 195° -358° .
2680 M 7241.5	Gumisaka Ko, breakwater.	36° 02.2' N 136° 00.9' E	Iso.W. period 6s	36 11	11	White round concrete tower; 25.	
2684 M 7241	Shirahama Ko, outer breakwater, head.	36° 04.8' N 136° 01.9' E	Oc.G. period 8s lt. 6s, ec. 2s	36 11	11	White round concrete tower; 29.	F.W. illuminates rocks 40 meters NW.
2688 M 7240.7	Nagahasi Ko Nisi, W. breakwater, head.	36° 06.9' N 136° 02.9' E	Fl.(2)R. period 6s	46 14	5	Red tower; 28.	
2692 M 7240.5	Takanosu Ko.	36° 07.7' N 136° 03.8' E	F.Fl.W. period 5s	43 13	F. 8 Fl 12	White round concrete tower; 26.	F.W. illuminates reef 120 meters W.
2696 M 7240.3	Hukui Ko, N. breakwater.	36° 11.9' N 136° 07.3' E	Oc.G. period 8s	52 16	13	White round concrete tower; 46.	
2700 M 7240.4	-S. breakwater.	36° 12.1' N 136° 06.9' E	Fl.R. period 3s	56 17	6	Red tower; 34.	
2704 M 7240	Mikuni Ko, breakwater, S. head.	36° 12.8' N 136° 07.8' E	F.Fl.G. period 4s	39 12	F. 7 Fl 11	White round concrete structure; 33.	
2708 M 7240.2	-SW. obstruction light, breakwater.	36° 13.0' N 136° 08.0' E	F.W.	36 11		White round concrete structure; 32.	Spotlight illuminates head of breakwater.
2712 M 7239.7	-O Shima.	36° 15.0' N 136° 07.0' E	Fl.(2)W. period 9s 2 fl. 3s, ec. 6s	128 39	17	White round concrete tower; 36.	
2716 M 7239.5	Sioya Ko.	36° 17.9' N 136° 14.5' E	Fl.(2)G. period 5s	39 12	10	White tower; 28.	
2720 M 7237	Hasitate Ko.	36° 20.9' N 136° 18.2' E	Fl.(3)W. period 13s	177 54	19	White square concrete tower; 46.	Visible 035° -283° .
2724 M 7238	-Breakwater, head.	36° 21.3' N 136° 18.9' E	Fl.R. period 4s	30 9	3	Red round concrete structure; 39.	
2728 M 7237.4	-NE. breakwater, head.	36° 21.4' N 136° 18.9' E	Fl.G. period 3s	46 14	3	White round concrete tower; 36.	
2732 M 7237.2	--Outer breakwater.	36° 21.6' N 136° 18.9' E	Fl.(2)G. period 6s	49 15	10	White tower; 33.	Fl.R. 3s 13m 3M 250 meters S. on breakwater.
2736 M 7236.4	Ataka.	36° 25.0' N 136° 25.2' E	Iso.W. period 6s	72 22	14	White round tower; 52.	
2740 M 7236	Mikawa.	36° 29.5' N 136° 29.4' E	Fl.W. period 4s	82 25	15	White round concrete structure; 49.	
2744 M 7234	Kanazawa Ko, jetty, head.	36° 36.2' N 136° 35.0' E	Fl.R. period 4s	43 13	9	White round concrete tower; 32.	
2748 M 7234.4	-E. breakwater, head.	36° 36.1' N 136° 35.2' E	Iso.G. period 6s	42 13	12	White round concrete structure; 31.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-NORTHWEST COAST							
2752 M 7232	Ono Ko.	36° 37.0' N 136° 36.0' E	Fl.W. period 10s	112 34	16	White square concrete tower; 85.	Visible 036° -216° .
2756 M 7233.2	-Breakwater.	36° 37.2' N 136° 36.1' E	Fl.R. period 3s	36 11	3	Red round concrete structure; 31.	
2760 M 7233	-W. breakwater, head.	36° 38.4' N 136° 36.2' E	Fl.(2)R. period 6s	43 13	12	Red round concrete structure; 33.	
2764 M 7232.4	-E. breakwater.	36° 37.7' N 136° 36.2' E	Fl.G. period 3s	36 11	3	White round concrete structure; 28.	
2768 M 7230	Shiroo.	36° 43.1' N 136° 41.3' E	Fl.(2)W. period 7s	82 25	15	White round concrete structure; 33.	Visible 020° -212° .
2772 M 7225	Taki Ko, breakwater.	36° 55.2' N 136° 45.3' E	Iso.G. period 6s	39 12	8	White round concrete tower; 30.	
2776 M 7226	--E. breakwater.	36° 55.3' N 136° 45.3' E	Fl.(2)R. period 6s	26 8	3	Red round tower; 20.	
2780 M 7224	Taki Saki.	36° 55.6' N 136° 45.2' E	Oc.(2)W. period 6s	59 18	13	White quadrangular concrete tower; 33.	
2784 M 7222	Takahama Ko, W. breakwater, No. 1, head.	37° 00.0' N 136° 46.0' E	Fl.R. period 3s	43 13	9	Red round concrete structure; 33.	
2788 M 7221.6	Abuya Ko, breakwater.	37° 00.7' N 136° 44.7' E	F.Fl.G. period 5s	36 11	F. 5 Fl. 11	White round tower; 28.	
2790 M 7221.3	Hokoriku Denryoku.	37° 03.7' N 136° 43.0' E	Fl.R. period 4s	36 11	3	Red tower; 18.	
2791 M 7221.4	-S. breakwater.	37° 03.5' N 136° 43.1' E	Fl.G. period 4s	36 11	3	White concrete tower; 18.	
2792 M 7220	Fukura Ko.	37° 04.5' N 136° 43.3' E	Fl.W. period 12s	92 28	15	White round concrete tower; 52.	Visible 350° -210° .
2804 M 7221	-Mo Saki Range, front.	37° 05.0' N 136° 44.0' E	F.R. (neon)	45 14	10	Round concrete tower, white triangular topmark; 43.	
2808 M 7221.1	--Rear, 90 meters 090° from front.	37° 04.9' N 136° 43.7' E	F.R. (neon)	79 24	10	Round concrete tower, white triangular topmark; 12.	
2812 M 7214	Kazanasi, breakwater, head.	37° 08.2' N 136° 41.3' E	Iso.G. period 6s	46 14	4	White tower; 31.	
2816 M 7216	Togi Ko, breakwater, head.	37° 08.6' N 136° 42.0' E	Fl.(2)G. period 6s	39 12	5	White tower; 29.	
2820 M 7213	Ama Saki.	37° 08.6' N 136° 40.4' E	Iso.W. period 6s	91 28	15	White round concrete tower; 52.	
2824 M 7212.4	Noto-Akasaki Ko, breakwater, head.	37° 10.0' N 136° 40.5' E	Fl.G. period 3s	39 12	3	White tower; 28.	
2828 M 7212	Saruyama Zaki.	37° 19.5' N 136° 43.4' E	Fl.W. period 8s	719 219	20	White square concrete tower; 56.	Visible 014° -213° .
RAMARK							
2830 M 7210	Minatuki Ko.	37° 21.0' N 136° 45.4' E	Fl.G. period 4s	25 8	6	White round concrete tower; 19.	
2832 M 7209	Wazima Ko.	37° 22.6' N 136° 48.0' E	Fl.R. period 3s	42 13	5	Red round concrete tower; 31.	
2836 M 7204	Tatsuga Saki.	37° 24.2' N 136° 54.1' E	Fl.W. period 15s	217 66	21	White round concrete tower; 36.	Visible 092° -292° . F.W. auxiliary light illuminates shoal about 750 meters NNE.
WAJIMA KO:							
2840 M 7206	-No. 1 breakwater, head.	37° 24.1' N 136° 54.3' E	Fl.R. period 3s	39 12	5	Red tower; 31.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-NORTHWEST COAST							
2844 M 7207	-No. 2 breakwater, head.	37° 23.9' N 136° 54.4' E	Fl.G. period 3s	25 8	5	White square steel framework tower, concrete base; 18.	
2852 M 7202	Nanatsu Shima.	37° 36.0' N 136° 54.0' E	Fl.W. period 5s	215 66	17	White round concrete tower; 25.	
2856 M 7200	Hekura Jima.	37° 51.0' N 136° 55.0' E	Fl.(2)W. period 28s 2 fl. 7s, ec. 21s	140 43	18	White round concrete structure; 112.	Radiobeacon. DGPS Station.
2860 M 7201	-Ko, breakwater No. 1.	37° 50.9' N 136° 55.3' E	Fl.G. period 3s	39 12	3	White round concrete tower; 33.	
2864 M 7201.4	--No. 2, head.	37° 50.9' N 136° 55.3' E	Fl.R. period 3s	39 12	6	Red round concrete structure; 28.	
2868 M 7201.6	-Outer breakwater.	37° 50.8' N 136° 55.4' E	Fl.G. period 5s	43 13	6	White tower; 31.	
2872 M 7198	Noto Kura Saki.	37° 29.8' N 137° 08.9' E	Fl.(2)W. period 7s	230 70	20	White round concrete tower; 28.	
2876 M 7195.9	Takaya, breakwater, head.	37° 31.4' N 137° 14.3' E	Fl.R. period 3s	56 17	7	Red tower; 31.	
2880 M 7195.95	-W. breakwater, head.	37° 31.1' N 137° 14.5' E	Fl.G. period 3s	43 13	12	White tower; 31.	
2884 M 7199	Yome Guri.	37° 40.1' N 137° 12.7' E	Fl.(2)W. period 8s	43 13	12	White tower; 28.	
2888 M 7196	Rokugo Saki.	37° 31.8' N 137° 19.6' E	Iso.W. period 6s	157 48	19	White round stone tower; 39.	Visible 095° -312° . Storm signals.
2892 M 7195.8	Norosi Ko, breakwater, head.	37° 31.3' N 137° 19.9' E	Iso.R. period 6s	43 13	12	Red round concrete structure; 43.	
2896 M 7195	Himeshima Guri.	37° 30.2' N 137° 21.8' E	Fl.W. period 4s	43 13	12	White round concrete tower; 43.	
2900 M 7195.4	Ai Saki.	37° 30.0' N 137° 21.0' E	F.W.	102 31		White quadrangular concrete structure; 28.	Illuminates Gyozya Guri about 560 meters E.
2902 M 7194.5	Suzu Misaki.	37° 30.0' N 137° 21.1' E	Fl.R. period 3s	36 11	3	Red tower; 28.	
2904 M 7194	Nagate Saki.	37° 27.0' N 137° 21.6' E	Fl.W. period 3s	52 16	7	White round concrete structure; 54.	
2912 M 7192.4	-W. of No. 2 breakwater, head.	37° 26.2' N 137° 18.1' E	Fl.(2)R. period 6s	39 12	5	Red tower; 28.	
2914 M 7192.6	-Takajima Gyoko, breakwater.	37° 26.1' N 137° 18.4' E	Fl.(2)G. period 6s	28 9	5	White tower; 18.	
2916 M 7190.8	Ukai Ko, breakwater.	37° 24.0' N 137° 14.8' E	Iso.R. period 4s	39 12	5	Red round concrete structure; 31.	
2920 M 7190	Matsunami Ko, breakwater.	37° 21.0' N 137° 15.0' E	Fl.G. period 3s	39 12	8	White round concrete tower; 31.	
2924 M 7189.6	Noto Aka Saki.	37° 21.0' N 137° 16.0' E	Oc.(2)W. period 6s	39 12	11	White round concrete tower; 31.	
2928 M 7189.4	Noto Jo-ga-Saki.	37° 20.0' N 137° 16.0' E	Fl.W. period 4s	69 21	14	White round concrete structure; 31.	
NOTO OGI KO:							
2932 M 7189	-Tsukumo Wan, S. breakwater.	37° 17.9' N 137° 14.2' E	Fl.(2)R. period 5s	39 12	5	Red tower; 31.	
2936 M 7188.2	-Tsukumo Wan.	37° 18.1' N 137° 14.2' E	Fl.G. period 4s	30 9	3	Green round concrete tower; 29.	
2940 M 7188.1	-Motoogi, breakwater.	37° 17.8' N 137° 13.7' E	Fl.R. period 3s	33 10	3	Red tower; 27.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-NORTHWEST COAST							
2944 M 7188	-Inuyama.	37° 18.0' N 137° 14.0' E	Fl.(2)W. period 18s 2 fl. 6s, ec. 12s	105 32	16	White round concrete structure; 46.	Visible 232° -50° .
2948 M 7188.4	-Obase, breakwater.	37° 17.9' N 137° 14.1' E	Fl.(2)G. period 5s	39 12	3	White round concrete structure; 31.	
2956 M 7186.6	Ikari Shima.	37° 17.6' N 137° 12.9' E	Fl.G. period 3s	36 11	3	White tower; 31.	
2960 M 7185	Usetsu Ko.	37° 17.8' N 137° 09.3' E	Fl.(3)W. period 13s	125 38	17	White quadrangular concrete tower; 33.	F.W. auxiliary light illuminates area SE.
2964 M 7186	Usetsu Ko, S. No. 1 breakwater.	37° 17.7' N 137° 09.3' E	Fl.(2)G. period 6s	30 9	5	White round tower, quadrangular concrete base; 28.	
2968 M 7186.2	Usetsu Ko, E. No. 2 breakwater.	37° 17.7' N 137° 09.6' E	Iso.R. period 6s	40 12	8	Red round concrete structure; 31.	
2972 M 7184	Ukawa Ko, training wall, head.	37° 15.0' N 137° 05.5' E	Iso.W. period 6s	39 12	11	White round concrete structure; 33.	
2976 M 7183	Anamizu.	37° 13.0' N 136° 55.0' E	Fl.W. period 3s	161 49	17	White quadrangular concrete structure; 36.	Visible 275° -131° .
2980 M 7182.6	Bagura, E. breakwater, head.	37° 10.1' N 137° 02.0' E	Fl.G. period 4s	33 10	3	White tower; 31.	
2982 M 7183.5	Noto Nakano Sima.	37° 09.3' N 136° 54.9' E	Fl.W. period 4s	24 7	8	White tower; 18.	
2984 M 7173	Enome Ko, No. 1 breakwater, head.	37° 09.2' N 137° 03.1' E	Fl.(2)R. period 5s	39 12	5	Red tower; 31.	
2988 M 7172.4	Kato Saki.	37° 09.0' N 137° 03.0' E	F.W.	36 11		White tower; 29.	
NANAO WAN:							
2992 M 7172	-Kannon Saki.	37° 06.0' N 137° 04.0' E	Fl.W. period 8s	105 32	16	Square white concrete tower; 39.	Visible 155° -005° .
2994 M 7171.8	Unoura Ko.	37° 06.1' N 137° 03.2' E	Fl.R. period 3s	26 8	3	Red tower; 18.	
2996 M 7174	-Noto Jima entrance Range, front, on Kojin Hana.	37° 07.0' N 137° 02.0' E	Fl.W. period 3s	59 18	13	White round tower; 33.	
3000 M 7174.5	--	37° 06.5' N 137° 01.5' E	Dir.F.W.R.G.	43 13	W. 12 R. 11 G. 12		R. 256° 40' -258° 00' , W.- 259° 30' G.-260° 50' .
3004 M 7177	-Me Shima, about 3.5 kilometers 039° from Naneo.	37° 04.4' N 136° 59.6' E	Fl.(2)R. period 6s	43 13	5	Red tower; 33.	
3008 M 7180	Nanao Ko Huchu, E. breakwater.	37° 02.9' N 136° 58.3' E	Fl.R. period 3s	26 8	4	Red round metal structure; 24.	
3012 M 7182	Ishisaki Ko, breakwater.	37° 04.6' N 136° 56.2' E	Fl.R. period 4s	29 9	3	Red round concrete tower; 26.	
3014 M 7182.2	-N. breakwater, head.	37° 04.6' N 136° 56.4' E	Fl.(2)G. period 6s	20 6	5	White tower; 16.	
3016 M 7171.4	Enotomari Ko, breakwater.	37° 04.1' N 137° 03.2' E	Fl.R. period 3s	39 12	3	Red tower; 30.	
3020 M 7171	Iori Ko, E. breakwater.	37° 02.3' N 137° 02.9' E	Fl.(2)R. period 5s	33 10	5	Red tower; 30.	
3024 M 7170.5	Simosazanami Ko.	37° 00.7' N 137° 03.0' E	Fl.R. period 4s	40 12	5	Red tower; 31.	
3028 M 7170	Mera Ko, E. breakwater.	36° 57.0' N 137° 02.5' E	Fl.R. period 4s	39 12	3	Red round concrete tower; 31.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-NORTHWEST COAST							
3030 M 7169.5	Osakai Ko, breakwater.	36° 55.3' N 137° 01.8' E	Fl.(2)R. period 8s	26 8	4	Red concrete structure; 19.	
3032 M 7169	Unami Ko, E. breakwater.	36° 54.7' N 137° 01.4' E	Oc.R. period 4s	28 8	5	Red tower; 19.	
TOYAMA WAN:							
3036 M 7168	-Ettyu Tomari Ko, breakwater.	36° 53.7' N 137° 00.6' E	Fl.(2)R. period 5s	23 7	3	Red tower; 18.	
3040 M 7167.4	-Yabuta Ko, breakwater.	36° 53.3' N 137° 00.1' E	Fl.R. period 3s	36 11	3	Red round concrete tower; 31.	
-Himi Ko:							
3044 M 7166	--N. breakwater, E. head.	36° 51.6' N 136° 59.8' E	Fl.R. period 5s	39 12	4	Red round concrete tower; 36.	
3046 M 7166.75	--Etchu Ao Ko, breakwater.	36° 53.0' N 136° 59.8' E	Iso.R. period 4s	25 8	5	Red tower; 18.	
3048 M 7166.5	--E. breakwater, N. head.	36° 52.0' N 137° 00.0' E	Fl.G. period 5s	42 13	4	White round concrete tower; 29.	
3052 M 7164.5	--Kara Shima, on summit.	36° 51.9' N 136° 59.7' E	Fl.W. period 3s	66 20	8	White tower; 39.	
3056 M 7160	-Iwasakino Hano.	36° 48.0' N 137° 03.0' E	Fl.W. period 15s	190 58	20	White round concrete tower; 46.	Visible 132° -318° .
3060 M 7160.4	-Kokubu, E. breakwater, head.	36° 48.2' N 137° 03.7' E	Fl.G. period 3s	26 8	5	White round concrete structure; 27.	
3064 M 7160.6	--Breakwater, head.	36° 48.3' N 137° 03.4' E	Fl.R. period 3s	40 12	3	Red round concrete structure; 31.	
3064.1 M 7162.4	-Kokubu Passage.	36° 49.2' N 137° 04.5' E	Fl.(5)Y. period 20s	46 14	4	SPECIAL Y, beacon, topmark; 46.	
3065 M 7162.3	-Fushiki-Tyuo.	36° 48.1' N 137° 04.2' E	Fl.(2)G. period 5s	39 12	4	White tower; 21.	
3066 M 7162.2	-N. breakwater, SE. head.	36° 48.1' N 137° 04.5' E	Fl.(2)R. period 5s	43 13	7	Red tower; 33.	
FUSHIKI KO:							
3068 M 7162	--E. breakwater.	36° 47.6' N 137° 04.1' E	Fl.G. period 4s	39 12	3	White round concrete tower; 33.	
3072 M 7161	--W. breakwater.	36° 47.7' N 137° 04.1' E	Fl.R. period 4s	43 13	5	Red tower; 31.	F.R. on chimney 1 mile SW.
3076 M 7161.3	--227° 54' .	36° 47.5' N 137° 04.4' E	Dir.F.W.R.G.	66 20	W. 12 R. 10 G. 10	White round concrete tower; 59.	R. 225° 24' -226° 24' , W.- 229° 24' , G.-230° 24' . Oc.Y. 4s above main light. Emergency light W. 2M, R. 1M, G. 1M.
3080 M 7156	--W. breakwater, head.	36° 47.2' N 137° 05.0' E	Fl.(2)R. period 7s	33 10	5	Red tower; 32.	
3084 M 7152	--Detached E. breakwater, head.	36° 47.2' N 137° 05.0' E	Fl.(2)G. period 7s	46 14	3	White tower; 33.	
3088 M 7154	--E. breakwater, S. head.	36° 47.1' N 137° 05.0' E	Fl.R. period 3s	30 9	3	Red tower; 19.	
3090 M 7151.8	Sinmanato Gyoko.	36° 47.1' N 137° 05.4' E	Fl.G. period 3s	46 14	5	White tower; 30.	

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JAPAN-HONSHU-NORTHWEST COAST							
SINMINTO:							
3092 M 7151.4	-Toyama Sinko, W. breakwater.	36° 46.9' N 137° 06.9' E	Fl.(2)R. period 6s	52 16	5	Round concrete structure; 49.	
3096 M 7151	--E. breakwater.	36° 47.0' N 137° 07.1' E	Fl.(2)G. period 6s	52 16	7	White round concrete structure; 49.	
3098 M 7150.6	-Yokata Ko.	36° 45.7' N 137° 11.6' E	Fl.R. period 3s	36 11	3	Red tower; 28.	
3100 M 7150.5	--Nihonkai Oil sea berth, buoy.	36° 47.0' N 137° 12.6' E	Mo.(U)W. period 8s		10	Red and white striped mooring buoy.	Horn: 1 bl. ev. 30s (bl. 3s, si. 27s).
3104 M 7151.6	-Toyama Sinka, E. inner breakwater.	36° 46.6' N 137° 07.1' E	Iso.G. period 4s	40 12	4	White round concrete tower; 33.	
3108	-Toyama Ko, E. breakwater, head.	36° 45.9' N 137° 13.7' E	Fl.(2)G. period 5s	49 15	5	White round concrete structure; 49.	
TOYAMA WAN:							
3112 M 7149	-Toyama Ko, W. breakwater.	36° 45.9' N 137° 13.5' E	Fl.(2)R. period 5s	36 11	7	Red tower; 32.	
3116 M 7147	-Mizuhashi Ko, W. training wall.	36° 45.5' N 137° 18.0' E	Fl.G. period 3s	39 12	7	White round concrete tower; 32.	
3120 M 7145	-Namericawa Ko, breakwater.	36° 46.6' N 137° 20.6' E	Fl.(2)G. period 6s	43 13	5	White round concrete tower; 32.	
-Uozu (Uwotsu) Ko:							
3124 M 7144.4	--N. auxiliary breakwater, head.	36° 48.3' N 137° 23.6' E	Fl.(2)G. period 5s	39 12	5	White round concrete tower; 31.	
3128 M 7144.5	--S. auxiliary breakwater, head.	36° 48.5' N 137° 23.5' E	Fl.(2)R. period 5s	39 12	3	Red tower; 31.	
3132 M 7142	--N. breakwater, head.	36° 49.2' N 137° 23.5' E	Fl.G. period 4s	43 13	7	White tower; 31.	
3136 M 7144	--S. breakwater, head.	36° 49.2' N 137° 23.5' E	Fl.R. period 3s	26 8	4	Red tower; 22.	
3140 M 7137.6	-Kyoden Ko, N. breakwater, head.	36° 51.1' N 137° 24.6' E	Fl.(2)G. period 7s	43 13	5	White tower; 33.	
3143 M 7137.4	-Ishida Ko, breakwater, head.	36° 51.9' N 137° 24.8' E	Fl.G. period 4s	24 7	3	White tower; 16.	
3144 M 7137.2	-Kurube Ko, N. breakwater.	36° 53.4' N 137° 24.9' E	F.Fl.G. period 5s	43 13	F. 3 Fl 7	White round concrete tower; 33.	
3148 M 7137	-Ikuji Hana.	36° 53.9' N 137° 24.7' E	Fl.W. period 10s	108 33	16	White round concrete tower, black bands; 98.	Visible 334° -203°.
3152 M 7136.9	Nyuzen Ko.	36° 55.5' N 137° 25.6' E	Fl.G. period 3s	56 17	9	White round concrete tower; 32.	
3156 M 7136.7	Miyazaki Hana.	36° 58.3' N 137° 35.2' E	Fl.(2)W. period 11s	354 108	12	White round concrete tower; 49.	
3160 M 7136.8	Miyazaki Ko, E. breakwater.	36° 58.4' N 137° 35.1' E	Iso.G. period 4s	43 13	9	White round concrete tower; 31.	
3164 M 7136.6	Himekawa Ko, E. breakwater, head.	37° 03.0' N 137° 50.8' E	Fl.R. period 3s	56 17	6	Red tower; 39.	
3168 M 7135	-No. 2 breakwater, head.	37° 06.6' N 138° 00.0' E	F.Fl.(2)G. period 7s	43 13	F. 5 Fl 12	White round concrete structure; 31.	
3170 M 7136.5	Uramoto Ko.	37° 04.1' N 137° 56.0' E	Fl.G. period 3s	43 13	12	White round concrete tower; 32.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-NORTHWEST COAST							
3172 <i>M 7134</i>	No Ko.	37° 06.5' N 137° 59.6' E	Fl.W. period 4s	95 29	7	White round concrete tower; 27.	
3180 <i>M 7132.8</i>	Tsutsuishi Ko, U Shima.	37° 08.0' N 138° 03.2' E	F.Fl.R. period 5s	23 7	F 6 Fl 10	Red round tower; 21.	
3184 <i>M 7133</i>	Tsutsuisi Ko, Senzoku Sima.	37° 08.0' N 138° 03.2' E	F.Fl.G. period 5s	49 15	F 5 Fl 12	White round concrete tower; 28.	
3188 <i>M 7132.5</i>	Nadachi Ko.	37° 10.2' N 138° 05.2' E	Iso.R. period 6s	43 13	4	White round concrete tower; 36.	
3192 <i>M 7132</i>	Torigakubi Misaki.	37° 10.1' N 138° 06.0' E	Fl.W. period 5s	269 82	23	White square concrete tower; 39.	Visible 025° -273°.
3196 <i>M 7128</i>	-Seki Kawa, E. training wall.	37° 11.1' N 138° 14.8' E	Fl.R. period 3s	46 14	6	Red round concrete tower; 31.	
3200 <i>M 7125</i>	-W. breakwater.	37° 12.2' N 138° 15.5' E	F.Fl.(2)R. period 8s	72 22	F 9 Fl 14	Red round concrete structure; 61.	
3202 <i>M 7125.5</i>	-Breakwater, head.	37° 11.9' N 138° 15.8' E	Fl.G. period 4s	43 13	6	White tower; 31.	
3208 <i>M 7121</i>	Yoneyama Saki.	37° 19.0' N 138° 26.0' E	Oc.(2)W. period 7s	312 95	20	Round concrete structure, black bands; 46.	Visible 040° -240°.
3214 <i>M 7102.7</i>	-W.	37° 48.1' N 138° 15.3' E	Fl.(2)G. period 6s	39 12	5	White round concrete structure; 22.	
3216 <i>M 7103</i>	-Sawasaki Hana.	37° 49.0' N 138° 13.0' E	Fl.(2)W. period 30s 2 fl. 8s, ec. 22s	134 41	18	White octagonal concrete tower; 79.	Visible 314° -201°.
3218 <i>M 7103.08</i>	--Approach.	37° 48.8' N 138° 13.1' E	Fl.R. period 3s	23 7	3	Red tower; 16.	
3220 <i>M 7103.3</i>	-NE. of Sawasaki.	37° 50.2' N 138° 13.5' E	Fl.R. period 3s	42 13	3	Red round concrete tower; 32.	
3222 <i>M 7103.52</i>	-Sawane Ko, breakwater.	38° 00.3' N 138° 17.1' E	Fl.G. period 4s	22 7	3	White concrete structure; 18.	
3224 <i>M 7103.5</i>	Mano Wan, breakwater.	37° 59.4' N 138° 17.0' E	Fl.(2)G. period 6s	33 10	3	White round concrete structure, square base; 32.	
3226 <i>M 7103.51</i>	Mano Ko, breakwater.	37° 57.6' N 138° 20.1' E	Fl.R. period 3s	28 9	4	Red tower; 20.	
3228 <i>M 7103.6</i>	-Hutami Ko, breakwater, head.	37° 58.6' N 138° 16.0' E	Fl.G. period 3s	33 10	5	White round concrete tower; 28.	
3232 <i>M 7104</i>	-Daiga Hana.	37° 57.7' N 138° 15.4' E	Fl.W. period 5s	151 46	18	White round concrete tower; 43.	Auxiliary light shows F.W. over Okino Eguri.
3236 <i>M 7104.4</i>	-Inakuzira Ko, breakwater.	37° 58.0' N 138° 14.0' E	Fl.G. period 3s	52 16	3	White tower; 31.	
3240 <i>M 7104.5</i>	-Nagate Misaki.	37° 58.8' N 138° 13.8' E	Fl.W. period 4s	33 10	11	White round concrete structure; 31.	
3244 <i>M 7104.7</i>	Mano Wan.	37° 59.7' N 138° 14.0' E	Fl.R. period 3s	42 13	3	Red tower; 31.	
3248 <i>M 7105</i>	Itiri Sima.	38° 02.1' N 138° 13.3' E	Fl.(2)W. period 5s	66 20	9	ISOLATED DANGER BRB, beacon, topmark; 39.	
3252 <i>M 7106.4</i>	-Himezu Ko, breakwater.	38° 04.7' N 138° 14.5' E	Iso.G. period 6s	49 15	12	White round concrete tower; 31.	
3256 <i>M 7106</i>	-O Saki.	38° 06.0' N 138° 15.0' E	Fl.W. period 12s	102 31	16	White round concrete tower; 33.	Visible 021° -213°.
3258 <i>M 7106.2</i>	Kitaebisu Ko.	38° 05.7' N 138° 15.2' E	Fl.G. period 3s	43 13	3	White round concrete tower; 32.	
3260 <i>M 7107</i>	-Nyu Saki.	38° 11.8' N 138° 19.8' E	Oc.(2)W. period 6s	184 56	12	White round concrete tower; 39.	F.W. spotlight illuminates shoal 0.8M NW.

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JAPAN-HONSHU-NORTHWEST COAST							
3264 M 7107.4	-Takati Ko, breakwater.	38° 12.1' N 138° 20.4' E	Fl.R. period 3s	46 14	5	Red round tower; 28.	
3268 M 7107.6	-Seki Misaki.	38° 15.0' N 138° 24.0' E	Iso.W. period 6s	476 145	12	White round concrete structure; 33.	Visible 048° -213° .
3272 M 7092	-Hajiki Saki.	38° 19.9' N 138° 30.7' E	Fl.(3)W. period 30s	242 74	22	White octagonal concrete tower; 62.	Visible 091° -357° . Obscured by summit of Futatsugame Yama 093° - 097° .
3276 M 7092.4	-Washizaki, E. breakwater, head.	38° 19.0' N 138° 31.2' E	Iso.R. period 4s	43 13	12	Red round concrete structure; 31.	
3280 M 7092.6	Miyano Saki.	38° 12.3' N 138° 29.5' E	Iso.W. period 6s	141 43	12	White quadrangular concrete structure; 33.	
3284 M 7093	-Ryotsu Wan, approach.	38° 08.4' N 138° 27.0' E	Fl.(2)R. period 5s	36 11	5	Red round concrete tower; 32.	
3286	-Hayosi Ko, breakwater.	38° 07.0' N 138° 26.5' E	Fl.R. period 3s	25 8	3	Red tower; 16.	
3288 M 7095	-Ryostu Ko.	38° 05.4' N 138° 26.4' E	Fl.(2)R. period 5s	36 11	5	Red round concrete tower; 46.	
3290 M 7094.4	-Breakwater, N. head.	38° 05.4' N 138° 26.3' E	Fl.G. period 3s	30 9	3	White round structure; 18.	
3292 M 7094	-Ryotsu Wan, breakwater.	38° 04.8' N 138° 27.0' E	Fl.R. period 4s	62 19	7	Red tower; 54.	
3296 M 7096	-Hime Saki.	38° 05.2' N 138° 33.8' E	Fl.W. period 6s	138 42	18	White hexagonal iron structure; 46.	Visible 079° -310° . Obscured within 2 miles between 301° -310° by Tarikaki Hana SE. of lighthouse.
3300 M 7096.5	-Hime Saki, S. side.	38° 04.5' N 138° 34.4' E	Fl.(2)R. period 5s	43 13	5	Red round concrete tower; 32.	
3304 M 7097	Joga Hana.	38° 01.3' N 138° 33.1' E	Oc.(2)W. period 6s	105 32	12	White quadrangular concrete tower; 36.	
3308 M 7098	-Kono se.	37° 55.0' N 138° 30.0' E	Iso.W. period 6s	75 23	14	White round concrete tower; 72.	Visible 177° -071° .
3312 M 7100.2	-Akadomari Ko, breakwater, head.	37° 52.1' N 138° 25.2' E	Fl.(2)G. period 7s	39 12	7	White tower; 31.	
3314 M 7100.6	--Approach.	37° 52.6' N 138° 26.1' E	Fl.G. period 4s	23 7	3	White tower; 16.	
3315 M 7101.5	-Hamito Ko, breakwater.	37° 49.2' N 138° 19.0' E	Fl.G. period 5s	27 8	5	White tower; 22.	
3316 M 7102	-Ogi Ko, breakwater.	37° 49.0' N 138° 17.0' E	Fl.G. period 3s	39 12	11	White round concrete tower; 31.	
3320 M 7102.5	--Utino Ma, breakwater.	37° 48.7' N 138° 16.4' E	Fl.G. period 4s	39 12	3	White round concrete structure; 32.	
3324 M 7120	Kashiwazaki Ko, W. breakwater.	37° 22.8' N 138° 32.8' E	Fl.R. period 3s	43 13	12	Red tower; 31.	
3326 M 7119.5	Kirawa Nuclear Power Station, breakwater, head.	37° 26.3' N 138° 35.4' E	Fl.(2)R. period 7s	52 16	13	Red tower; 39.	
3328 M 7119	Kannon Zaki, Shilya Hana.	37° 29.0' N 138° 38.0' E	Fl.W. period 15s	177 54	19	White quadrangular concrete tower; 27.	Visible 017° -229° .
3332 M 7118.4	Izumosaki Ko, breakwater.	37° 32.5' N 138° 40.9' E	Fl.(2)R. period 5s	42 13	3	Red round concrete structure; 36.	
3336 M 7118.6	-Izumosaki Ko.	37° 32.5' N 138° 40.9' E	Q.(3)W. period 10s	36 11	9	E. CARDINAL BYB, beacon, topmark; 36.	
3340 M 7118	Teradomari Ko, breakwater.	37° 38.9' N 138° 45.4' E	Fl.R. period 4s	46 14	10	Red round concrete tower; 31.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-NORTHWEST COAST							
3344 M 7117.4	Maze Ko, breakwater.	37° 44.6' N 138° 47.5' E	Fl.(2)R. period 6s	46 14	5	Red tower; 28.	
3348 M 7117	Kakuda Misaki.	37° 47.0' N 138° 49.0' E	Fl.(2)W. period 20s 2 fl. 5s, ec. 15s	164 50	19	White round concrete tower; 43.	Visible 020° -243° .
3350 M 7116.8	Etigo Sinkawa Ko, breakwater.	37° 52.0' N 138° 55.4' E	Fl.R. period 4s	27 8	6	Red concrete structure; 19.	
NIGATO KO:							
3352 M 7110.5	-No. 2 W. breakwater, N. head.	37° 58.2' N 139° 04.4' E	Fl.R. period 3s	49 15	10	Red tower; 39.	
3356 M 7111.2	-W. breakwater, elbow.	37° 57.5' N 139° 04.1' E	Fl.R. period 6s	79 24	14	Red round concrete tower; 72.	
3360 M 7112	-E. breakwater, about 366 meters 152° from elbow of W. breakwater.	37° 57.3' N 139° 04.2' E	Fl.(2)G. period 7s 2 fl. 3s, ec. 4s	39 12	4	White tower; 33.	
3370 M 7116.5	-Outer harbor observation tower.	38° 00.2' N 139° 07.6' E	Mo.(U)W. period 10s	59 18	7		Radar reflector.
3372 M 7113	-Wharf A, N. head.	37° 56.9' N 139° 04.1' E	Fl.W. period 3s	23 7	3	White tower; 18.	
3376 M 7116	-AVIATION LIGHT.	37° 56.8' N 139° 06.9' E	Al.Fl.W.G. period 4.3s	69 21		Iron framework structure; 52.	
3380 M 7109	-Aqa-no-Kawa Guchi.	37° 57.0' N 139° 08.0' E	Iso.W. period 6s	52 16	13	White round concrete tower; 52.	
3384 M 7110	Matsuhama Ko.	37° 57.4' N 139° 08.1' E	Fl.G. period 3s	19 6	3	White tower; 16.	
3388 M 7108.2	-E. district, E. outer breakwater, head.	38° 00.8' N 139° 14.2' E	Fl.G. period 3s	39 12	3	White round concrete structure; 31.	
3392 M 7108.6	-Sea Berth No. 3.	38° 00.1' N 139° 13.5' E	Mo.(U)W. period 10s	45 14	12		
3396 M 7108.4	-W. breakwater.	38° 01.1' N 139° 13.9' E	Fl.R. period 3s	39 12	5	Red framework tower; 43.	
3405 M 7090.7	-SE. breakwater.	38° 11.0' N 139° 25.0' E	Fl.G. period 3s	49 15	5	White structure; 33.	
3406 M 7090.8	-Oil platform.	38° 07.8' N 139° 20.5' E	Mo.(U)W. period 15s	62 19	13		
3408 M 7090.5	Iwafune Ko, groin.	38° 11.3' N 139° 25.7' E	Fl.R. period 3s	36 11	3	Red tower; 30.	
3412 M 7090	Iwahune Ko.	38° 11.7' N 139° 26.1' E	Iso.W. period 6s	144 44	18	White square concrete tower; 39.	
3416 M 7089	Awa Shima.	38° 27.1' N 139° 14.5' E	Fl.W. period 10s	899 274	38	White square concrete tower; 36.	
3420 M 7089.5	Awasima Ko, E. breakwater.	38° 28.1' N 139° 15.4' E	Fl.G. period 4s	43 13	5	White tower; 31.	
3424 M 7088.8	Nezugaseki Ko, SSW.	38° 29.0' N 139° 30.7' E	F.Fl.G. period 4s	49 15	F. 7 Fl 12	White round concrete structure; 31.	
3428 M 7088	Nezugaseki Ko, Benten Shima, SW. head.	38° 33.2' N 139° 32.6' E	Fl.(2)W. period 7s	70 21	14	White round concrete tower; 46.	
3432 M 7088.4	Nezugaseki Ko, W. breakwater.	38° 33.7' N 139° 32.5' E	F.Fl.R. period 5s	49 15	F. 3 Fl 7	Red round concrete tower; 36.	
3436 M 7088.6	-E. breakwater.	38° 33.7' N 139° 32.6' E	Iso.G. period 6s	43 13	9	White round concrete tower; 31.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-NORTHWEST COAST							
3440 M 7087.8	Hato Saki.	38° 41.0' N 139° 37.9' E	Iso.W. period 6s	131 40	17	White round concrete tower; 33.	
3444 M 7087.9	Ryotoan Jima.	38° 41.0' N 139° 37.0' E	Fl.(2)W. period 5s	52 16	12	ISOLATED DANGER BRB, beacon, topmark; 29.	
3456 M 7087.4	Yura Ko, W. breakwater.	38° 43.2' N 139° 40.6' E	Fl.R. period 3s	39 12	7	Red round concrete structure; 33.	
3456.1 M 7087.3	-Outer breakwater.	38° 43.3' N 139° 40.5' E	Fl.(2)R. period 5s	52 16	6	Red tower; 29.	
3460 M 7087	Arasaki.	38° 46.0' N 139° 44.0' E	Fl.W. period 5s	108 33	16	Round concrete tower; 39.	
3464 M 7087.1	-N. breakwater.	38° 45.8' N 139° 44.0' E	Iso.G. period 6s	43 13	12	White tower; 33.	
3468 M 7087.2	-Inner breakwater.	38° 45.7' N 139° 44.2' E	F.Fl.(2)R. period 8s 2 fl. 3s, ec. 5s	36 11	F. 6 Fl 11	Red round concrete tower; 28.	
3470 M 7086	Syonai, AVIATION LIGHT.	38° 48.9' N 139° 47.5' E	Al.Fl.W.G. period 4.3s	171 52			Occasional.
SAKATA KO:							
3472 M 7082	-Sakata.	38° 56.8' N 139° 49.0' E	Fl.W. period 8s	135 41	17	White round concrete tower; 98.	Visible 018° -198°. DGPS Station about 285 yards NE.
3476 M 7082.5	-Groin, head.	38° 56.9' N 139° 48.9' E	Iso.R. period 6s	46 14	12	Red round iron framework tower; 36.	
3480 M 7084	-S. breakwater, N. head.	38° 55.9' N 139° 48.1' E	Fl.(2)R. period 5s	56 17	13	Red round concrete structure; 54.	
3484 M 7083	-N. breakwater, head.	38° 55.6' N 139° 48.4' E	Fl.(2)G. period 7s	62 19	13	White round concrete tower; 46.	Visible 293° -219°.
3488 M 7085	Wave observation tower.	39° 00.5' N 139° 46.8' E	Mo.(U)W. period 15s	64 20	5		
3492 M 7080	Fukura Ko, S. breakwater.	39° 04.0' N 139° 53.0' E	F.Fl.G. period 3s	39 12	5 11	Red round concrete structure; 31.	
3496 M 7077	Ugo Misaki.	39° 07.0' N 139° 52.0' E	Fl.(2)W. period 7s	223 68	20	White round concrete tower; 33.	
3500 M 7077.4	Kosagawa Ko, No. 1 breakwater.	39° 07.0' N 139° 53.0' E	Iso.R. period 8s	39 12	11	Red round concrete tower; 31.	
3504 M 7076	Tobi Shima.	39° 12.0' N 139° 33.4' E	Fl.W. period 10s	269 82	20	White round concrete tower; 46.	
3506 M 7076.1	Hoki, breakwater, SE. head.	39° 12.1' N 139° 33.9' E	Fl.R. period 5s	36 11	6	Red tower; 31.	
3508 M 7076.3	Tobi Shima Ko, middle breakwater.	39° 11.0' N 139° 33.0' E	Fl.R. period 3s	43 13	12	Red round concrete tower; 28.	
3512 M 7076.2	Tobi Shima Ko, S. breakwater, head.	39° 10.9' N 139° 33.2' E	Fl.G. period 3s	39 12	8	White round concrete tower; 28.	
3513 M 7075.5	-S. end.	39° 11.1' N 139° 32.5' E	Fl.(3)W. period 17s	92 28	14	White tower; 25.	
3516 M 7075	Kisakata Ko, S. breakwater, head.	39° 11.9' N 139° 54.0' E	Iso.G. period 6s	32 10	11	White round concrete tower; 28.	
3520 M 7072	Konoura Ko, on hill.	39° 15.2' N 139° 54.9' E	Fl.W. period 4s	59 18	13	White square concrete tower; 36.	Storm signals.
3524 M 7072.4	-N. breakwater.	39° 15.1' N 139° 54.8' E	Fl.(2)G. period 6s	46 14	8	White round concrete tower; 28.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-NORTHWEST COAST							
HIRASAWA KO:							
3528 M 7070	-E. breakwater, head.	39° 17.5' N 139° 57.8' E	Iso.G. period 6s	39 12	11	White round concrete tower; 36.	
3532 M 7071	-W. jetty, head.	39° 17.5' N 139° 57.8' E	F.Fl.R. period 5s	33 10	F 6 Fl 11	Red round concrete tower; 28.	
3536 M 7069.4	Honzyo.	39° 24.2' N 140° 01.7' E	Iso.W. period 8s	79 24	14	White hexagonal concrete structure; 36.	
3540 M 7069.6	-Breakwater, head.	39° 23.0' N 140° 01.0' E	Iso.G. period 4s	46 14	12	White round concrete structure; 46.	
3544 M 7069	Matsugasaki.	39° 30.0' N 140° 02.0' E	Fl.W. period 5s	82 25	15	White round concrete tower; 36.	
3548 M 7066.5	Akita Ko.	39° 46.2' N 140° 01.1' E	Fl.(2)R. period 5s	62 19	13	Red tower; 53.	
3552 M 7066	Akita Ko, S. breakwater, inner head.	39° 45.6' N 140° 02.3' E	Fl.R. period 5s	49 15	5	Red round concrete structure; 36.	
3556 M 7067	Akita Ko, E. inner breakwater.	39° 46.0' N 140° 02.0' E	Iso.G. period 6s	42 13	12	White round concrete tower; 36.	
3560 M 7061	Omnagawa.	39° 51.5' N 139° 49.2' E	Fl.W.R. period 4s	161 49	12	Red and white round concrete structure; 62.	R. 255° -299° , W.-089° , obscured elsewhere.
3562 M 7061.4	Hunagawa, Sea Berth.	39° 51.3' N 139° 51.8' E	Mo.(U)W. period 15s	102 31	14		Mo.(U)W. 15s 7M 270 meters NW. and 230 meters SSE. Horn: Mo.(U) 30s. Radar reflector.
3564 M 7062	Funakawa, S. breakwater, head.	39° 52.3' N 139° 52.2' E	Iso.G. period 4s	49 15	12	White hexagonal iron framework structure, concrete base; 46.	
3568 M 7063.5	-Asiyawa, S. breakwater.	39° 52.5' N 139° 51.6' E	Fl.R. period 3s	36 11	9	Red tower; 32.	
3572 M 7063.4	--N. breakwater.	39° 52.7' N 139° 51.5' E	Fl.(2)G. period 6s	23 7	6	White round concrete structure; 19.	
3574 M 7062.7	-Minami-Hirasawa, breakwater.	39° 51.0' N 139° 51.9' E	Fl.G. period 3s	52 16	8	White round concrete tower; 36.	
3576 M 7063.3	-Hunagawa Kanegawa, breakwater, S. head.	39° 52.8' N 139° 51.6' E	Fl.(2)R. period 6s	28 9	6	Red round concrete structure; 19.	
3580 M 7064	Wakimoto Ko, breakwater.	39° 54.0' N 139° 54.0' E	Iso.G. period 6s	33 10	11	White round concrete tower; 28.	
3584 M 7060	Tsubaki Ko, W. breakwater.	39° 52.0' N 139° 47.0' E	F.Fl.G. period 5s	39 12	F 5 Fl 11	White round concrete tower; 31.	
3588 M 7059.6	-Tateyama Saki.	39° 51.5' N 139° 46.7' E	F.W.	157 48		White square concrete tower; 33.	Illuminates beacon on Mituguri Shima 850 meters SE.
3592 M 7059.5	Shioga Misaki.	39° 51.3' N 139° 45.6' E	Iso.W. period 8s	59 18	13	White round structure; 31.	
3596 M 7058.9	Toga Ko, breakwater.	39° 57.0' N 139° 43.0' E	Fl.(2)R. period 6s	49 15	9	Red round concrete tower; 36.	
3600 M 7058.8	-S. side, on island.	39° 56.7' N 139° 42.3' E	Fl.W. period 5s	69 21	14	White tower; 33.	
3604 M 7058	Nyudo Saki.	40° 00.2' N 139° 42.2' E	Fl.W. period 15s	186 57	20	Round concrete tower, black and white bands; 92.	Visible 010° -293° . F.W. illuminates beacon on Mizu Shima 1,080 meters NNW. Storm signals.
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(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-NORTHWEST COAST							
3608 M 7057.4	Yunosiri Ko.	39° 58.6' N 139° 45.3' E	F.F.I.R. period 4s	39 12	F. 6 Fl 11	Red tower; 36.	
3612 M 7057	Kitaura Ko, breakwater.	39° 58.0' N 139° 47.0' E	Iso.R. period 6s	36 11	11	Red round concrete tower; 30.	F.W. spotlight illuminates E. head of breakwater.
3620 M 7057.2	-Kitaura Ko, detached breakwater, E. head.	39° 57.4' N 139° 47.9' E	Fl.R. period 3s	39 12	9	Red tower; 36.	
3622	Nosiro Ko, breakwater.	40° 12.0' N 139° 58.9' E	Fl.(2)R. period 6s	43 13	9		
3624 M 7056	Noshiro Minato, Yoneshiro Gawa entrance.	40° 13.0' N 140° 02.0' E	Fl.R. period 3s	46 14	9	Red round concrete tower; 36.	
3628 M 7055.9	Hachimori, No. 1 breakwater.	40° 22.5' N 140° 00.0' E	Fl.G. period 3s	49 15	4	White round concrete tower; 39.	
3632 M 7055.8	Iwadata Ko, No. 2 breakwater.	40° 23.8' N 139° 58.6' E	F.Fl.G. period 5s	49 15	F. 5 Fl 12	White round concrete tower; 28.	
3636 M 7055.5	Sugo Saki.	40° 25.0' N 139° 57.0' E	Fl.W. period 5s	154 47	18	White quadrangular concrete tower; 46.	Visible from 318° -146° .
3640 M 7055.2	Kyuroku Shima.	40° 32.0' N 139° 29.9' E	Fl.W. period 8s	66 20	7	White round concrete tower; 62.	
3644 M 7055.1	Iwasaki Ko, No. 2 breakwater.	40° 34.8' N 139° 54.8' E	Fl.G. period 4s	43 13	5	White round concrete tower; 31.	
3646 M 7055.12	-Inner breakwater.	40° 34.9' N 139° 55.0' E	Fl.(2)G. period 7s	36 11	3	White tower; 18.	
3648 M 7055.14	Iwasaki Ko, breakwater.	40° 35.0' N 139° 52.7' E	F.Fl.G. period 3s	49 15	F. 5 Fl 12	White tower; 28.	
3652 M 7055	Henashi Saki.	40° 36.0' N 139° 52.0' E	Fl.W. period 10s	223 68	21	White round concrete tower; 79.	
3656 M 7054.2	Fukaura, breakwater, head.	40° 38.5' N 139° 55.7' E	F.F.I.R. period 6s	36 11	F. 11 Fl 8	Red round concrete structure; 31.	
3658 M 7054.4	-Breakwater, N. head.	40° 38.9' N 139° 55.4' E	Fl.R. period 3s	49 15	4	Tower; 36.	
3660 M 7054	-Outer breakwater, head.	40° 38.8' N 139° 55.5' E	F.Fl.G. period 6s	39 12	F. 5 Fl. 11	White round concrete structure; 36.	
3664 M 7053.8	Toriisaki.	40° 45.0' N 140° 00.0' E	Fl.(2)W. period 8s 2 fl. 3s, ec. 5s	89 27	15	Round concrete structure, red and white bands; 33.	F.W. auxiliary light illuminates reef NNW.
3668 M 7053.6	Odose Saki.	40° 45.9' N 140° 03.6' E	Fl.W. period 12s	177 54	19	White tower; 44.	
3670 M 7053.3	-Approach.	40° 45.1' N 140° 05.8' E	Fl.(2)R. period 7s	43 13	6	Red tower; 19.	
3672 M 7052	Azigasawa Ko.	40° 47.0' N 140° 13.0' E	Iso.R. period 6s	42 13	12	Red round concrete tower; 36.	
3674 M 7052.5	-NE. breakwater.	40° 46.9' N 140° 12.8' E	Fl.(2)G. period 6s	29 9	6	White tower; 18.	
3676 M 7053	E. breakwater.	40° 46.9' N 140° 12.7' E	Fl.G. period 3s	36 11	6	White tower; 31.	
3680 M 7048	Jusan Ko, S. jetty.	41° 02.2' N 140° 19.2' E	Fl.R. period 3s	32 10	7	Red round concrete tower; 22.	
3688 M 6673	Kokomari Misaki.	41° 07.5' N 140° 15.0' E	Iso.W. period 6s	255 78	14	White round concrete tower; 43.	Visible 297° -190° . Emergency light Fl.W. 5s 12M.
3692 M 6672	-N.	41° 08.1' N 140° 15.6' E	Fl.W. period 4s	292 89	20	White round concrete tower; 33.	
3696 M 6668	-N. breakwater, head.	41° 08.0' N 140° 18.0' E	Fl.R. period 3s	42 13	12	Red round concrete structure; 29.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-NORTHWEST COAST							
3700 <i>M 6670</i>	-E. breakwater, head.	41° 07.9' N 140° 17.8' E	Fl.G. period 3s	43 13	12	White round concrete structure, quadragular concrete base; 28.	
3704 <i>M 6662</i>	Tappi Saki.	41° 15.5' N 140° 20.5' E	Fl.(2)W. period 20s	390 119	27	White tower; 45.	Visible 029° -280° .

Section 3

North and East Coasts of Honshu Including Nampo Shoto

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-NORTH COAST							
3706 M 6663	-Tappi Ko approach.	41° 15.5' N 140° 21.1' E	Iso.R. period 4s	33 10	7	Red tower; 22.	
3707 M 6662.5	-E. Southeastward breakwater.	41° 14.2' N 140° 23.6' E	Fl.R. period 3s	26 8	3	Red tower; 16.	
3708 M 6658	-Minmaya Ko, breakwater, head.	41° 11.9' N 140° 26.2' E	Iso.R. period 6s	43 13	8	Red round concrete structure; 30.	
3712 M 6657	Takano Saki.	41° 13.7' N 140° 32.9' E	Iso.W. period 6s	118 36	8	White tower, red bands; 36.	
3714 M 6657.5	-Breakwater, head.	41° 13.4' N 140° 33.9' E	Fl.R. period 3s	36 11	11	Red tower; 28.	
3716 M 6654	Tairadate, on Myojin Saki, W. side of entrance to Mutsu Kaiwan.	41° 10.0' N 140° 39.0' E	Fl.W. period 5s	75 23	14	White round concrete tower; 72.	Visible 166° -358°.
3720 M 6656	-E. breakwater.	41° 09.0' N 140° 39.0' E	Iso.G. period 8s	31 9	11	White round concrete tower; 28.	
3724 M 6651	Kaunita Ko, breakwater, head.	41° 02.7' N 140° 39.1' E	Iso.G. period 6s	43 13	12	White round concrete tower; 36.	
3726 M 6650.7	Usirogata Ko.	40° 55.9' N 140° 40.2' E	Fl.R. period 3s	26 8	6	Red concrete tower; 19.	
3728 M 6650.5	Okunai Ko.	40° 53.4' N 140° 41.0' E	Fl.(2)R. period 6s	24 7	6	Red tower; 19.	
3730 M 6650	-Aomori Ko.	40° 51.0' N 140° 43.0' E	Iso.R. period 4s	32 10	11	Red round concrete structure; 28.	
3731 M 6649	-Okidate, W. breakwater.	40° 50.7' N 140° 43.4' E	Fl.R. period 4s	36 11	11	Red tower; 31.	
3731.5 M 6646	-N. breakwater, N. head.	40° 50.2' N 140° 44.6' E	Fl.G. period 3s	43 13	5	White tower; 28.	
3734 M 6647.5	-E. breakwater, W. tower.	40° 50.1' N 140° 45.0' E	Fl.(3)G. period 12s	36 11	6	White round concrete tower; 32.	
3736 M 6645.2	-Tutumi Kawa, E. breakwater.	40° 50.0' N 140° 46.2' E	Fl.R. period 3s	26 8	6	Red round concrete tower; 18.	
3740 M 6643.5	Moura Ko.	40° 56.5' N 140° 52.4' E	Iso.G. period 6s	39 12	11	White tower; 35.	
3744 M 6643.2	Ino Ko.	40° 58.6' N 140° 52.4' E	Fl.R. period 3s	26 8	6	Red concrete structure; 19.	
3760 M 6643	O Shima.	41° 01.0' N 140° 52.3' E	Fl.W. period 7s	138 42	7	White round concrete tower; 32.	
3764 M 6642.5	Iotasawa, E. breakwater.	40° 59.0' N 140° 55.0' E	Iso.R. period 4s	39 12	11	Red round concrete tower; 31.	
3768 M 6642	Yasui Saki.	40° 58.0' N 140° 59.0' E	Iso.W. period 4s	82 25	15	White square concrete tower; 39.	
3772 M 6641.7	Kominato Ko.	40° 57.5' N 140° 58.9' E	Fl.R. period 3s	22 7	3	Red round concrete tower; 16.	
3776 M 6641.6	-Breakwater, head.	40° 56.3' N 140° 59.1' E	Fl.R. period 5s	36 11	11	Red tower; 31.	
3778 M 6641.4	-Simizugawa Ko, breakwater, S. head.	40° 55.5' N 141° 01.7' E	Fl.R. period 3s	26 8	6	Red tower; 19.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-NORTH COAST							
3780 <i>M 6641</i>	Noheji Ko, W. breakwater.	40° 52.0' N 141° 07.0' E	Fl.(2)R. period 6s 2 fl. 3s, ec. 3s	39 12	11	Red round concrete tower; 36.	
3788 <i>M 6641.2</i>	-Easternmost breakwater, head.	40° 52.5' N 141° 07.7' E	Fl.R. period 5s	39 12	3	Red tower; 31.	
3790 <i>M 6640.4</i>	Yokohama Ko, breakwater.	41° 05.1' N 141° 14.8' E	Oc.R. period 5s lt. 4s, ec. 1s	39 12	11	Red round concrete tower; 28.	
3800 <i>M 6640.25</i>	Hamaokunai Ko, W. breakwater.	41° 12.1' N 141° 15.5' E	Fl.R. period 3s	30 9	6	Red tower; 19.	
3802 <i>M 6640.2</i>	Ominato Ko, breakwater, head.	41° 16.4' N 141° 10.8' E	Oc.R. period 4s	33 10	11	Red tower; 28.	
3804 <i>M 6640</i>	Kuro Saki.	41° 10.9' N 141° 03.7' E	Fl.W. period 4s	72 22	14	Tower, black and white bands; 39.	
3806 <i>M 6639</i>	Kawauchi Ko, breakwater.	41° 11.7' N 140° 59.1' E	Fl.G. period 4s		5		
3808 <i>M 6639.6</i>	Kawauti Wan.	41° 11.2' N 140° 57.8' E	Fl.(2)G. period 6s	22 7	3	White tower; 16.	
3809 <i>M 6638.4</i>	Wakinosawa Ko, breakwater.	41° 08.4' N 140° 49.8' E	Fl.R. period 3s	39 12	11	Red cylindrical concrete tower; 32.	
3810 <i>M 6638</i>	Mutsu Benten Shima.	41° 07.0' N 140° 49.0' E	Fl.(2)W. period 7s 2 fl. 3s, ec. 4s	118 36	14	Cylindrical concrete tower, black and white bands; 39.	
3811 <i>M 6637.4</i>	Usitaki Ko.	41° 17.4' N 140° 48.2' E	Iso.R. period 6s	40 12	7	Red tower; 19.	
3812 <i>M 6637</i>	Oyo Jima.	41° 24.0' N 140° 49.0' E	Fl.W. period 3s	61 19	12	White cylindrical concrete tower; 31.	
3816 <i>M 6636.7</i>	Sai Ko, breakwater.	41° 26.0' N 140° 51.9' E	Fl.(2)R. period 6s	43 13	10	Red tower; 30.	
3818 <i>M 6636.4</i>	Okoppe Ko.	41° 29.5' N 140° 54.4' E	Fl.R. period 3s	33 10	3	Red tower; 16.	
3828 <i>M 6636.3</i>	Oma Ko, S. approach.	41° 31.6' N 140° 54.1' E	Fl.(2)R. period 6s	29 9	6	Red tower; 22.	
3828.2 <i>M 6636</i>	-W. breakwater.	41° 31.7' N 140° 54.4' E	Iso.R. period 6s	43 13	12	Red tower; 31.	
3828.4 <i>M 6636.2</i>	-N. breakwater.	41° 31.7' N 140° 54.5' E	Iso.G. period 6s	39 12	11	White tower; 31.	
3828.6	-N. approach.	41° 32.0' N 140° 54.5' E	Fl.R. period 3s	31 9	6	Red tower; 18.	
3830 <i>M 6635</i>	Genbei Syo.	41° 33.0' N 140° 54.8' E	Fl.(2)W. period 5s	24 7	3	ISOLATED DANGER BRB, beacon, topmark; 21.	
3832 <i>M 6634.5</i>	Omasaki.	41° 33.3' N 140° 54.7' E	Fl.(3)W. period 18s	118 36	12	Round concrete tower, black and white bands; 82.	
3833 <i>M 6635.4</i>	Sitatehama Ko, breakwater.	41° 32.6' N 140° 55.5' E	Fl.(2)G. period 6s	33 10	5	White tower; 18.	
3834 <i>M 6633.8</i>	Oma Saki, SE.	41° 29.3' N 141° 00.1' E	Fl.G. period 4s	43 13	12	White tower; 28.	
3835 <i>M 6636.6</i>	Akaiwa Saki.	41° 28.1' N 141° 05.8' E	Fl.R. period 3s	29 9	6	Red concrete structure; 19.	
3836 <i>M 6633.5</i>	Ohata Ko, S. of E. breakwater.	41° 24.4' N 141° 10.8' E	F.Fl.R. period 4s	49 15	F. 9 Fl 12	Red round concrete structure; 36.	
3840 <i>M 6632</i>	-E. breakwater.	41° 24.7' N 141° 10.4' E	Iso.G. period 6s	36 11	11	White round concrete tower; 30.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-NORTH COAST							
3844 <i>M 6633</i>	-N. breakwater.	41° 24.7' N 141° 10.3' E	Iso.R. period 6s	36 11	7	Red round concrete tower; 28.	
3845 <i>M 6631.4</i>	Sekinehama Ko.	41° 22.0' N 141° 14.4' E	Dir.F.W.R.G.	43 13	W. 10 R. 9 G. 9	White tower; 32.	G. 255° -258° 30' , W.- 261° 30' , R.-265° . Emergency light W. 0.5M, R. 0.5M, G. 0.5M.
3846 <i>M 6631.5</i>	-W. breakwater.	41° 22.0' N 141° 14.8' E	Fl.R. period 4s	46 14	12	Red concrete structure; 31.	
3846.1 <i>M 6631.8</i>	-NW. breakwater.	41° 22.2' N 141° 13.9' E	Fl.R. period 3s	33 10	3		
3846.5 <i>M 6631.6</i>	-E. breakwater.	41° 22.0' N 141° 14.6' E	Fl.G. period 4s	46 14	11	White tower; 32.	
3847 <i>M 6631.2</i>	Mutuiwaya Ko.	41° 23.5' N 141° 25.0' E	Fl.R. period 3s	29 9	6	Red round concrete tower; 21.	
3848 <i>M 6631</i>	Shiriya Ko, Shiriya Breakwater.	41° 24.7' N 141° 25.9' E	Fl.G. period 3s	46 14	7	White round concrete tower; 31.	
JAPAN-HONSHU-EAST COAST							
3852 <i>M 6630</i>	Siriya Saki.	41° 25.7' N 141° 27.9' E	Fl.W. period 10s	151 46	18	White round brick tower; 108.	Visible 052° -003° . F.W. spotlight illuminates O Ne 0.87 mile ENE. Radiobeacon. Calibration Radiobeacon. DGPS Station.
RAMARK							
3856 <i>M 6628.8</i>	Kukidono Saki.	41° 23.5' N 141° 27.6' E	Iso.R. period 4s	43 13	12	Red tower; 31.	
3860 <i>M 6628</i>	Shiranuka Ko.	41° 07.8' N 141° 23.9' E	Fl.W. period 4s	125 38	17	White round concrete tower; 46.	
3872 <i>M 6628.4</i>	-Shima Breakwater.	41° 07.8' N 141° 23.9' E	Fl.(2)G. period 6s	36 11	11	White round concrete tower; 33.	
3876 <i>M 6628.2</i>	Siranuka Ko, N. breakwater.	41° 05.9' N 141° 23.9' E	Iso.R. period 4s	42 13	12	Red round concrete structure; 31.	F.W. spotlight 100 meters NE. illuminates E. breakwater.
3878 <i>M 6627.4</i>	Mutu Ogawara Ko.	40° 55.4' N 141° 24.2' E	F.Fl.(2)G. period 7s	52 16	F. 6 Fl 13	White tower; 42.	
3880 <i>M 6627</i>	Mutsu Shiogama.	40° 48.0' N 141° 24.0' E	Iso.W. period 6s	102 31	16	White square iron framework tower; 49.	
3884 <i>M 6625.7</i>	Oka-Misawa.	40° 40.7' N 141° 26.6' E	Fl.G. period 3s	43 13	12	White tower; 31.	
3888 <i>M 6626</i>	Oka-Misawa AVIATION LIGHT.	40° 41.1' N 141° 22.8' E	Al.Fl.(2+1)W.G. period 10s	230 70		Iron framework tower.	
HACHINOHE KO:							
3892 <i>M 6625</i>	-Hachinohe, AVIATION LIGHT.	40° 32.8' N 141° 27.4' E	Al.Fl.W.G. period 10s	171 52		Iron framework tower.	
3896 <i>M 6620</i>	-Same Kaku.	40° 32.2' N 141° 34.9' E	Fl.W. period 8s	190 58	20	White round structure; 75.	
-RAMARK							
3900 <i>M 6621</i>	-O Saki.	40° 32.0' N 141° 34.0' E	F.W.	72 22		White round concrete tower; 28.	Illuminates Hinode Iwa about 430 meters NNW.
3904 <i>M 6624.8</i>	-N. breakwater, head.	40° 33.5' N 141° 31.7' E	Fl.(2)R. period 9s	59 18	13	Red tower; 52.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-EAST COAST							
3906 <i>M 6624.85</i>	-Detached breakwater, N. end.	40° 33.7' N 141° 32.1' E	Fl.(2)G. period 6s	56 17	6	White concrete tower; 52.	Fl.(2)G. 6s 8m 5M marks N. head of breakwater.
3908 <i>M 6625.5</i>	Hatitaro, E. breakwater.	40° 33.1' N 141° 30.9' E	Fl.(2)G. period 9s 2 fl. 3s, ec. 6s	49 15	6	White round concrete structure; 33.	
3916 <i>M 6624.7</i>	--W. breakwater, head.	40° 32.1' N 141° 31.4' E	Fl.R. period 3s	43 13	7	Red tower; 31.	Bridge 620 meters SE. marked by F.Y., Iso.G., Iso.W. and Iso.R.
3920 <i>M 6622</i>	-N. detached breakwater, W. head.	40° 32.2' N 141° 33.1' E	Fl.G. period 4s	43 13	12	White round concrete structure; 33.	
3922 <i>M 6623.6</i>	-Aomori, breakwater, S. head.	40° 32.0' N 141° 32.2' E	Fl.R. period 5s	43 13	12	Red tower; 31.	
3924 <i>M 6623</i>	-W. breakwater, NE. head.	40° 32.3' N 141° 32.8' E	Fl.R. period 3s	49 15	6	Red quadrangular iron structure; 22.	
3928 <i>M 6623.2</i>	-Middle breakwater, W. head.	40° 32.3' N 141° 32.0' E	Fl.G. period 5s	43 13	6	White concrete structure; 31.	
3936 <i>M 6624</i>	-Inner breakwater, N. head.	40° 31.9' N 141° 33.4' E	F.Fl.R. period 6s	39 12	F. 6 Fl 11	Red round concrete structure; 36.	
3940 <i>M 6624.4</i>	-Kabu Shima Jetty.	40° 32.0' N 141° 33.5' E	F.Fl.G. period 6s	33 10	F. 5 Fl 11	White round concrete tower; 28.	
3941 <i>M 6619</i>	Ozuya Ko.	40° 28.2' N 141° 39.3' E	Fl.R. period 3s	33 10	6	Red concrete tower; 19.	
3942 <i>M 6618.4</i>	Kominato Ko.	40° 27.1' N 141° 40.6' E	Iso.G. period 4s	39 12	6	White round concrete structure; 19.	
3944 <i>M 6618</i>	Hajikami.	40° 26.9' N 141° 41.1' E	Fl.W. period 4s	72 22	14	White tower; 36.	
3948 <i>M 6615</i>	Taneti Ko, E. breakwater.	40° 24.1' N 141° 43.7' E	Fl.(2)R. period 6s	43 13	9	Red round concrete tower; 32.	
3952 <i>M 6614</i>	Taneti Ko.	40° 24.0' N 141° 43.3' E	Dir.F.W.R.G.	53 16	13	White round concrete tower; 46.	R. 255° 30' -257° 30' , W.-261° 30' , G.-263° 30' .
3956 <i>M 6612</i>	Yagi Ko, entrance Range, front.	40° 20.6' N 141° 46.0' E	F.G.	95 29	10	White round concrete tower, triangular daymark; 25.	
3960 <i>M 6612.1</i>	-Rear, 490 meters 236° 42' from front.	40° 20.6' N 141° 46.0' E	F.G.	154 47	10	White round concrete tower, triangular daymark; 36.	
3964 <i>M 6613</i>	Yagi Minami Ko.	40° 20.7' N 141° 46.4' E	Iso.G. period 6s	26 8	6	White round concrete tower; 19.	
3968 <i>M 6613.3</i>	-Yagi Ko.	40° 20.8' N 141° 46.4' E	F.Fl.R. period 3s	46 14	F. 6 Fl 12	Red round concrete tower; 33.	
3972 <i>M 6608</i>	Ushi Shima.	40° 13.0' N 141° 50.3' E	Iso.W. period 6s	233 71	20	White round concrete tower; 36.	Auxiliary F.W. illuminates reef about 0.7 mile SE.
3976 <i>M 6610</i>	-N. breakwater.	40° 11.0' N 141° 49.0' E	F.Fl.R. period 6s	43 13	F. 8 Fl 12	Red round concrete structure; 33.	
3978 <i>M 6610.3</i>	-Outer breakwater.	40° 11.2' N 141° 49.0' E	Iso.R. period 6s	46 14	12	Red concrete structure; 28.	
3980 <i>M 6609</i>	-S. breakwater.	40° 11.0' N 141° 48.5' E	F.Fl.G. period 6s	49 15	F. 5 Fl 12	White round concrete tower; 33.	
3982 <i>M 6610.6</i>	Kuzi Ko, breakwater, head.	40° 10.0' N 141° 51.2' E	Fl.G. period 3s	36 11	5	White round concrete tower; 22.	
3983 <i>M 6607.8</i>	Ritutyu Kuki Ko.	40° 07.7' N 141° 51.5' E	Fl.(2)R. period 6s	36 11	6	Red concrete tower; 19.	
3984 <i>M 6607.5</i>	Noda Wan.	40° 06.7' N 141° 50.3' E	F.Fl.R. period 3s	43 13	F. 6 Fl 12	Red tower; 31.	
3986 <i>M 6607.4</i>	Horinai Ko.	40° 03.1' N 141° 51.9' E	Fl.(2)R. period 6s	49 15	6	Red concrete tower; 33.	

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JAPAN-HONSHU-EAST COAST							
3988 <i>M 6607</i>	Otanabe Ko, breakwater, head.	40° 00.6' N 141° 54.7' E	Iso.G. period 4s	46 14	12	White round concrete structure; 33.	
3992 <i>M 6606</i>	Ma (Kuro) Saki.	40° 00.3' N 141° 56.4' E	Fl.W. period 5s	469 143	29	White round tower; 39.	Visible 082° -332° .
3996 <i>M 6605.8</i>	Rikutyu, Benten Zaki.	39° 56.7' N 141° 57.8' E	Fl.(2)W. period 7s	321 98	20	Round concrete tower, red and white bands; 33.	
4000 <i>M 6605.4</i>	Shimano Koshi, breakwater.	39° 54.8' N 141° 56.9' E	Iso.G. period 6s	46 14	12	White round concrete structure; 31.	
4004 <i>M 6605.2</i>	Omoto.	39° 50.2' N 141° 59.0' E	Fl.(4)W. period 15s	246 75	20	White round concrete tower; 28.	
4006 <i>M 6605.25</i>	-SE.	39° 49.6' N 141° 59.1' E	Iso.R. period 4s	39 12	7	Red round structure; 22.	
4008 <i>M 6605</i>	Ma Saki.	39° 45.0' N 142° 00.0' E	Fl.(2)W. period 10s 2 fl. 4s, ec. 6s	259 79	12	White round concrete tower; 31.	
4012 <i>M 6604.5</i>	-Taro Ko.	39° 43.7' N 141° 58.8' E	Iso.R. period 8s	46 14	12	Red round concrete structure; 31.	
4014 <i>M 6604.2</i>	Yado Ko.	39° 41.4' N 141° 58.4' E	Fl.(2)G. period 6s	46 14	3	White round concrete tower; 33.	
4015 <i>M 6604.1</i>	Takahama, breakwater, head.	39° 36.1' N 141° 57.2' E	Fl.R. period 5s	23 7	4	Red tower; 20.	
4016 <i>M 6604</i>	-Kanbayasi, breakwater, S. head.	39° 37.0' N 141° 58.0' E	Fl.R. period 3s	46 14	3	White square iron framework tower; 29.	
4018 <i>M 6603.5</i>	Miyako Ko, S. breakwater, head.	39° 37.7' N 141° 58.6' E	Fl.(2)R. period 6s	39 12	7	Red tower; 30.	
4020 <i>M 6603</i>	Miyako Wan, breakwater, head.	39° 38.4' N 141° 58.5' E	Fl.R. period 4s	36 11	3	Red round concrete structure; 31.	
4024 <i>M 6602</i>	Hei Saki.	39° 39.3' N 142° 01.5' E	Fl.W. period 3s	184 56	5	White round concrete tower; 33.	
4025 <i>M 6600</i>	Otobe Ko.	39° 36.0' N 142° 01.8' E	Fl.G. period 3s	33 10	3	White round concrete tower; 22.	
4026 <i>M 6599</i>	Omoe Ko.	39° 34.7' N 142° 01.8' E	Fl.R. period 4s	43 13	3	Red round concrete structure; 27.	
4028 <i>M 6598</i>	Todoga Saki.	39° 32.8' N 142° 04.3' E	Fl.W. period 15s	190 58	20	White tower; 112.	Visible 168° -018° . Storm signals.
			F.R.				Visible 342° -353° .
4036 <i>M 6597.6</i>	-E. breakwater.	39° 28.7' N 141° 58.9' E	Iso.R. period 6s	33 10	11	Red round concrete structure; 31.	
4040 <i>M 6596</i>	Kasano Hana.	39° 28.0' N 142° 01.0' E	Fl.W. period 4s	36 11	11	White round concrete tower; 26.	
4044 <i>M 6597.35</i>	Yamada, breakwater, head.	39° 27.8' N 141° 57.7' E	F.Fl.G. period 4s	39 12	F. 6 Fl 11	White round concrete tower; 32.	
4048 <i>M 6597</i>	Tarai Shima.	39° 27.2' N 141° 59.9' E	Fl.(2)W. period 5s	30 9	9	ISOLATED DANGER BRB, beacon, topmark; 24.	
4052 <i>M 6597.3</i>	Orikasa, N. breakwater.	39° 27.0' N 141° 58.0' E	F.Fl.(2)R. period 8s	33 10	F. 6 Fl 11	Red round concrete structure; 31.	
4056 <i>M 6597.2</i>	Oura Ko, breakwater, head.	39° 26.9' N 142° 00.1' E	Iso.G. period 4s	36 11	11	White tower; 31.	
4058 <i>M 6595.15</i>	Koyadori Ko.	39° 25.3' N 142° 01.0' E	Fl.R. period 3s	28 9	5	Red tower; 16.	
4060 <i>M 6595.1</i>	O Shima.	39° 24.0' N 142° 00.0' E	Fl.W. period 3s	92 28	12	White round concrete structure; 36.	

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JAPAN-HONSHU-EAST COAST							
4064 <i>M 6595.5</i>	Benten Shima.	39° 24.4' N 141° 58.9' E	Fl.W. period 4s	59 18	12	White round concrete structure; 36.	
4068 <i>M 6595.4</i>	Rikuchu Funakoshi Ko, S. breakwater.	39° 25.1' N 141° 58.9' E	F.Fl.R. period 5s	36 11	F 1 Fl 3	Red tower; 27.	
4072 <i>M 6595.7</i>	-N. breakwater, head.	39° 25.3' N 141° 58.7' E	Fl.R. period 3s	36 11	3	Red round concrete tower; 30.	
4076 <i>M 6595.2</i>	Kirikiri Ko, E. breakwater.	39° 22.3' N 141° 57.2' E	Iso.G. period 6s	31 9	11	White round tower; 28.	
4080 <i>M 6595.24</i>	-W. breakwater.	39° 22.2' N 141° 57.2' E	F.Fl.R. period 4s	36 11	F 6 Fl 11	Red round concrete structure; 31.	
4084 <i>M 6595</i>	Otuti Ko.	39° 20.7' N 141° 56.1' E	Iso.R. period 6s	36 11	11	Red round tower; 24.	
4088 <i>M 6595.04</i>	-S. Breakwater, head.	39° 20.9' N 141° 55.6' E	F.(2)G. period 6s	36 11	8	White round concrete structure; 24.	
4092 <i>M 6594.5</i>	Shirahama, breakwater, head.	39° 19.7' N 141° 56.8' E	Fl.G. period 3s	40 12	11	White structure; 15.	
4096 <i>M 6594</i>	Ohako Saki.	39° 20.8' N 141° 59.9' E	Fl.(4)W. period 15s	233 71	18	White round concrete tower; 30.	
4098 <i>M 6593.3</i>	Kuwanohama.	39° 18.3' N 141° 54.6' E	Fl.(2)R. period 6s	26 8	7		
4100 <i>M 6593</i>	Naka Ne, on rock.	39° 18.0' N 141° 54.3' E	Fl.(2)W. period 5s	36 11	9	ISOLATED DANGER BRB, beacon, topmark; 33.	
4104 <i>M 6593.2</i>	Ryoishi Ko, breakwater.	39° 18.0' N 141° 54.0' E	F.Fl.G. period 5s	31 9	F 5 Fl 11	White round concrete structure; 28.	
KAMAISHI WAN:							
4108 <i>M 6589.25</i>	-Kamaishi Ko.	39° 15.5' N 141° 55.9' E	Fl.(2)R. period 6s	52 16	8	Red structure; 33.	
4113 <i>M 6589.3</i>	-S. breakwater, N. head.	39° 15.4' N 141° 55.9' E	Fl.G. period 3s	33 10	5	White tower; 16.	
4116 <i>M 6592</i>	-N. breakwater, S. head.	39° 16.2' N 141° 53.8' E	Iso.G. period 6s	23 7	5	White concrete tower; 19.	
4128 <i>M 6589.8</i>	-Heida Ko, N. breakwater, head.	39° 15.0' N 141° 53.8' E	Fl.R. period 3s	28 8	4	Red tower; 22.	
4132 <i>M 6589.4</i>	-Shirahama, breakwater.	39° 14.4' N 141° 55.2' E	Fl.G. period 4s	39 12	3	White tower; 32.	
4136 <i>M 6589</i>	O Saki.	39° 14.9' N 141° 58.2' E	Fl.W. period 10s	374 114	20	White tower; 49.	
4140 <i>M 6588.4</i>	Kojirahama Ko, E. breakwater.	39° 12.3' N 141° 52.1' E	Fl.R. period 3s	33 10	3	Red round concrete structure; 27.	
4144 <i>M 6588.2</i>	Sikotu Saki.	39° 11.0' N 141° 55.7' E	Fl.W. period 3s	89 27	12	White round concrete structure; 33.	
4148 <i>M 6588</i>	Konpaku Ko, E. breakwater.	39° 09.2' N 141° 51.6' E	Fl.R. period 3s	46 14	3	Red round concrete structure; 27.	
4152 <i>M 6587</i>	Kobe Saki.	39° 06.2' N 141° 55.3' E	Fl.W. period 5s	407 124	20	White round concrete tower; 33.	Reserve light Fl.R. 8s, visible from SW. only.
4156 <i>M 6586.6</i>	Rikutyu-Sakihama Ko, E. breakwater.	39° 06.0' N 141° 52.0' E	F.Fl.(2)R. period 8s 2 fl. 3s, ec. 5s	36 11	F 6 Fl 11	Red round concrete tower; 28.	
4160 <i>M 6586.4</i>	Okkirai Ko, E. breakwater, head.	39° 06.8' N 141° 49.0' E	Fl.R. period 3s	39 12	5	Red round concrete structure; 30.	
4162 <i>M 6586.2</i>	Onizawa Ko.	39° 05.2' N 141° 48.9' E	Iso.G. period 4s	23 7	6	White concrete structure; 18.	

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JAPAN-HONSHU-EAST COAST							
4164 <i>M 6586</i>	Ryori Saki.	39° 01.8' N 141° 51.0' E	Fl.W. period 15s	367 112	12	White square concrete structure;	Obscured 062° -179° . 62.
4165	-Ryori Saki RAMARK.	39° 01.7' N 141° 50.6' E					
4166 <i>M 6584</i>	Ryori Ko, breakwater.	39° 01.7' N 141° 47.7' E	Fl.(2)R. period 6s	43 13	9	Red tower; 33.	
4168 <i>M 6585</i>	-S. breakwater.	39° 02.0' N 141° 48.0' E	Fl.R. period 3s	36 11	11	Red round concrete structure;	28.
4172 <i>M 6582</i>	Koori Saki.	39° 01.0' N 141° 46.0' E	Fl.W. period 4s	157 48	19		
4176 <i>M 6582.2</i>	Breakwater, head.	39° 01.0' N 141° 45.0' E	F.Fl.R. period 5s	43 13	F. 6 Fl 12		
4180 <i>M 6582.4</i>	Ofunato Wan, S. breakwater, entrance.	39° 00.9' N 141° 44.1' E	Iso.G. period 6s	39 12	12	White round concrete structure;	31.
4184 <i>M 6582.6</i>	-N. breakwater.	39° 01.2' N 141° 44.0' E	Fl.R. period 3s	39 12	5	Red round concrete tower; 32.	
4188 <i>M 6583.5</i>	-Sango Shima, S. extremity.	39° 02.0' N 141° 45.0' E	Fl.W. period 3s	63 19	13	White round concrete tower; 33.	
4192 <i>M 6583.7</i>	--N. extremity.	39° 02.3' N 141° 43.7' E	Fl.W. period 4s	109 33	3	Red round concrete structure;	28.
4196 <i>M 6583</i>	Ofunato Ko Range, front.	39° 01.7' N 141° 43.0' E	FR.	216 66	8	White quadrangular iron structure, quadrangular concrete base; 69.	
4200 <i>M 6583.1</i>	-Rear, about 200 meters 309° from front.	39° 01.7' N 141° 42.9' E	FR.	276 84	8	White quadrangular iron framework structure; 26.	
4204 <i>M 6583.3</i>	-Hosoura fishery harbor, E. breakwater.	39° 01.2' N 141° 43.1' E	Fl.(2)G. period 5s	27 8	3	White round concrete tower; 19.	
4206 <i>M 6583.4</i>	-Detached breakwater.	39° 01.2' N 141° 43.1' E	Fl.(2)R. period 5s	30 9	3		
4208 <i>M 6581</i>	Goishi Saki.	38° 59.0' N 141° 44.7' E	Fl.(3)W. period 13s	128 39	17	White round concrete tower; 33.	
4212 <i>M 6581.5</i>	Kadonohama Wan.	39° 00.0' N 141° 43.0' E	F.Fl.R. period 3s	39 12	F. 6 Fl 11		
4213 <i>M 6581.2</i>	Mutugaura Ko, breakwater, head.	38° 57.9' N 141° 42.5' E	Iso.G. period 4s	27 8	6	White tower; 19.	
4214 <i>M 6572</i>	Nesaki, N. breakwater, head.	38° 56.5' N 141° 42.6' E	Fl.(2)R. period 6s	30 9	7		
4216 <i>M 6571</i>	Tsubaki Shima.	38° 56.0' N 141° 43.0' E	Fl.W. period 6s	154 47	5	White round concrete structure;	33.
HIROTA WAN:							
4220 <i>M 6579</i>	-Hirota Ko, breakwater, head.	38° 57.0' N 141° 41.5' E	F.Fl.R. period 4s	39 12	F. 6 Fl 11	Red round concrete structure;	31.
4224 <i>M 6578</i>	-Akaiso Iwa, about 310 meters from Hirota Ko.	38° 56.9' N 141° 41.3' E	Mo.(A)R. period 3s	36 11	7	STARBOARD (B) R, beacon, topmark; 33.	
4228 <i>M 6575</i>	-Osabe Ko, detached breakwater.	38° 59.5' N 141° 38.0' E	Iso.R. period 4s	36 11	11		
4232 <i>M 6574</i>	--S. breakwater, head.	38° 59.4' N 141° 37.9' E	Iso.G. period 4s	33 10	11	White quadrangular iron framework structure; 27.	
KESENNUMA WAN:							
4236 <i>M 6570</i>	-Rikuzen O Saki.	38° 51.5' N 141° 40.4' E	Fl.W. period 3s	138 42	5	White round concrete tower; 43.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-EAST COAST							
4240 <i>M 6568</i>	-Kara Shima.	38° 51.7' N 141° 38.5' E	Fl.W. period 5s	111 34	5	White round concrete tower; 33.	
4244 <i>M 6569</i>	-Yama Bana.	38° 51.2' N 141° 37.6' E	Fl.R. period 3s	43 13	5	Red tower; 31.	
4246 <i>M 6567.48</i>	-Kosaba Ko, breakwater.	38° 52.9' N 141° 38.6' E	Iso.R. period 6s	30 9	4	Red tower; 22.	
4248 <i>M 6567</i>	-Banshone, on reef.	38° 53.1' N 141° 37.2' E	Fl.G. period 3s	31 9	3	PORT (B) G, beacon, topmark; 27.	FW. spotlight illuminates Banshone 79 meters NNE.
4252 <i>M 6567.5</i>	-Shibitachi Nakane.	38° 53.0' N 141° 38.1' E	Mo.(A)R. period 8s	36 11	3	STARBOARD (B) R, beacon, topmark; 33.	
4254 <i>M 6567.3</i>	-Breakwater, W.	38° 53.0' N 141° 36.1' E	Fl.R. period 3s	22 7	4	Red tower; 19.	
4256 <i>M 6566.5</i>	-Jodan.	38° 52.8' N 141° 36.3' E	Fl.W. period 4s	69 21	3	White tower; 19.	
4260 <i>M 6567.2</i>	-Range, front.	38° 53.7' N 141° 35.7' E	F.R.	217 66	7	White metal framework tower; 39.	
4264 <i>M 6567.21</i>	--Rear, 690 meters 354° 48' from front.	38° 54.0' N 141° 35.7' E	F.R.	354 108	7	White metal framework tower; 59.	
4268 <i>M 6566</i>	-O Shima.	38° 49.8' N 141° 37.5' E	Fl.W. period 10s	121 37	5	White round concrete structure; 43.	Horn: 2 bl. ev. 30s.
4272 <i>M 6567.4</i>	To Wan, Yoroi Saki.	38° 53.6' N 141° 37.6' E	Dir.F.W.R.G.	92 28	W. 14 R. 10 G. 11	White round concrete structure; 30.	R. 329° 30' -331° , W.-333° , G.-334° 30' .
4276 <i>M 6564</i>	Iwai Saki.	38° 49.7' N 141° 36.2' E	Oc.(3)W.R. period 13s lt. 6s, ec. 1s lt. 2s, ec. 1s lt. 2s, ec. 1s	79 24	14	White tower; 56.	W. 089° -337° , R.-089° over reefs 2 km. SSE.
4280 <i>M 6562</i>	Hikado Ko, breakwater, head.	38° 48.3' N 141° 33.7' E	Iso.G. period 4s	39 12	11	White round concrete structure; 31.	
4282 <i>M 6561.6</i>	Kurauti Ko.	38° 45.0' N 141° 32.0' E	Fl.R. period 3s	31 9	6	Red concrete structure; 22.	
4284 <i>M 6560</i>	Utatsu Saki.	38° 41.8' N 141° 33.6' E	Fl.W. period 4s	164 50	13	White tower; 36.	
4285 <i>M 6560.2</i>	Rikuzentomari Ko.	38° 42.1' N 141° 33.6' E	Iso.R. period 6s	26 8	7	Red concrete structure; 18.	
4286 <i>M 6560.5</i>	Isatomae Ko, breakwater, head.	38° 42.7' N 141° 31.7' E	Oc.G. period 4s	30 9	6	White tower; 22.	
4288 <i>M 6561</i>	Shizukawa, S. breakwater.	38° 40.0' N 141° 27.0' E	F.Fl.G. period 5s	32 10	F. 5 Fl 11	White round concrete tower; 28.	
4292 <i>M 6558</i>	Terahama.	38° 38.0' N 141° 31.9' E	Iso.W. period 6s	161 49	19	White quadrangular concrete tower; 33.	
4296 <i>M 6557</i>	Ogachi Hunagosi Ko, W. breakwater.	38° 32.1' N 141° 30.5' E	Oc.R. period 5s lt. 4s, ec. 1s	33 10	11	Red tower; 31.	
4300 <i>M 6556</i>	Osu Zaki.	38° 31.1' N 141° 32.9' E	Iso.W. period 4s	164 50	19	White square concrete tower; 39.	Visible 160° -006° .
4304 <i>M 6554</i>	Shirogane Zaki.	38° 29.0' N 141° 32.0' E	Fl.(3)W. period 13s	125 38	17	White round concrete tower; 33.	
4308 <i>M 6555.2</i>	Ogati Ko Range, front.	38° 31.3' N 141° 28.4' E	F.G.	148 45	10	White round concrete structure; 36.	
4312 <i>M 6555.21</i>	-Rear, 137 meters 315° from front.	38° 31.4' N 141° 28.3' E	F.G.	190 58	10	White round concrete structure; 26.	

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JAPAN-HONSHU-EAST COAST							
4316 <i>M 6555</i>	Aka Saki.	38° 30.0' N 141° 30.0' E	Fl.W. period 3s	112 34	16	White cylindrical concrete tower; 33.	
4320 <i>M 6549</i>	Yogono.	38° 26.3' N 141° 31.7' E	Fl.W. period 3s	190 58	5	White round tower; 32.	Horn: 1 bl. ev. 25s (bl. 10s, si. 15s).
4324 <i>M 6549.5</i>	Yogouo Saki.	38° 26.4' N 141° 31.5' E	Fl.R. period 3s	36 11	3	Red round concrete tower; 32.	
4328 <i>M 6550</i>	Onagawa Ko, N. breakwater.	38° 26.0' N 141° 28.0' E	F.Fl.R. period 5s	39 12	F. 8 Fl 11	Red round concrete structure; 31.	
4332 <i>M 6551</i>	-S. breakwater, head.	38° 26.0' N 141° 28.0' E	F.Fl.G. period 5s	39 12	F. 7 Fl 11	White round concrete tower; 32.	
4334 <i>M 6549.8</i>	Onagawa Wan, breakwater, N. head.	38° 24.1' N 141° 30.6' E	Fl.G. period 3s	46 14	6	White structure.	
4336 <i>M 6547</i>	Rikuzen Yeno Shima.	38° 24.0' N 141° 36.0' E	Fl.(2)W. period 10s 2 fl. 3s, ec. 7s	286 87	20	White quadrangular concrete structure; 33.	
4340 <i>M 6548</i>	-Haya Saki.	38° 24.0' N 141° 32.0' E	Fl.W. period 4s	312 95	20	White round concrete tower; 43.	F.W. auxiliary light, illuminates Minaminabakari NE. Rock, about 0.8 mile NNW.
4344 <i>M 6546</i>	Kinkazan.	38° 16.6' N 141° 35.0' E	Al.Fl.W.R. period 20s	181 55	20	White tower; 42.	Visible 189° -045° . Storm signals. Signal station (day only). DGPS Station 185 meters NW.
4348 <i>M 6544</i>	Rikuzen Kuro Saki.	38° 16.4' N 141° 31.1' E	Iso.W. period 4s	213 65	12	White quadrangular iron framework tower, concrete base; 36.	
4352 <i>M 6545</i>	Domiki Saki.	38° 14.6' N 141° 30.2' E	Iso.W. period 8s	102 31	16	Round tower, red and white bands; 33.	F.W. auxiliary light illuminates Inu Iso about 490 meters ESE.
4354 <i>M 6545.7</i>	Hutawatasi Ko.	38° 15.4' N 141° 29.9' E	Fl.G. period 5s	26 8	3	White tower; 16.	
4356 <i>M 6542</i>	Aikawa Ko, breakwater, head.	38° 17.4' N 141° 30.5' E	Fl.R. period 3s	39 12	11	Red round concrete tower; 31.	
4360 <i>M 6545.5</i>	Azi Sima.	38° 16.6' N 141° 27.6' E	Fl.R. period 4s	43 13	5		
4364 <i>M 6541</i>	Nitoda Ko, breakwater.	38° 17.8' N 141° 25.6' E	Fl.G. period 4s	36 11	3	White round concrete structure; 31.	
4366 <i>M 6540.5</i>	Rikazen Odomari Ko.	38° 18.1' N 141° 25.5' E	Fl.G. period 3s	33 10	5	White round concrete tower; 23.	
4368 <i>M 6540</i>	Nigishiro Saki.	38° 18.5' N 141° 25.3' E	Fl.(2)W. period 7s	157 48	19	White round concrete tower; 33.	Obscured 304° -063° .
4372 <i>M 6538</i>	Oginohama Ko, on Kitsuneana Saki.	38° 22.0' N 141° 26.0' E	Fl.W. period 3s	121 37	9	White round concrete structure; 32.	
4376 <i>M 6537</i>	-Momonoura Ko, breakwater, head.	38° 23.6' N 141° 26.0' E	Fl.(2)G. period 8s	27 8	6	White hexagonal tower; 25.	
4380 <i>M 6534</i>	Watanoaha, O Saki.	38° 23.0' N 141° 22.0' E	Fl.W. period 5s	118 36	12	White round tower; 39.	
4384 <i>M 6535.2</i>	Watanoha Ko Nagahama, breakwater.	38° 24.0' N 141° 22.0' E	F.Fl.G. period 6s	33 10	F. 5 Fl 11	White round concrete tower; 28.	
4388 <i>M 6535</i>	-S. breakwater, head.	38° 24.0' N 141° 22.1' E	Iso.R. period 6s	28 9	7	Red round concrete column; 18.	
4400 <i>M 6533.4</i>	-Gyoko, N. breakwater, head.	38° 24.6' N 141° 20.4' E	Fl.R. period 3s	43 13	7	Red concrete column; 33.	
4404 <i>M 6533.6</i>	--W. breakwater, head.	38° 24.4' N 141° 20.4' E	Fl.G. period 4s	43 13	4	White round concrete structure; 46.	

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JAPAN-HONSHU-EAST COAST							
4408 <i>M 6533</i>	Ishinomaki Ko, W. breakwater, head.	38° 24.4' N 141° 18.8' E	Iso.G. period 4s	39 12	9	White round concrete tower; 36.	
4412 <i>M 6532</i>	-E. breakwater, S. head.	38° 24.4' N 141° 18.9' E	Fl.R. period 4s	36 11	5	Red octagonal concrete tower; 33.	
ISHINOMAKI KO:							
-Gyoko:							
4416 <i>M 6533.8</i>	--Range, front.	38° 24.9' N 141° 20.8' E	FR.	39 12	7	Metal post, white triangular topmark; 31.	
4420 <i>M 6533.81</i>	---Rear, 68 meters 001° 20' from front.	38° 24.9' N 141° 20.8' E	FR.	62 19	7	Metal post, white triangular topmark; 59.	
4424 <i>M 6531</i>	-Breakwater, head.	38° 23.9' N 141° 15.9' E	Fl.(2)R. period 6s	43 13	4	Red tower; 33.	
4428 <i>M 6530</i>	Matushima AVIATION LIGHT.	38° 25.1' N 141° 13.2' E	Al.FI.(2+1)W.G. period 10s 2 W. fl. 5.2s 1 G. fl. 4.8s	126 38			
4432 <i>M 6520</i>	Ha Shima.	38° 18.7' N 141° 11.3' E	Fl.W. period 3s	118 36	17	White round concrete tower; 39.	
4434 <i>M 6520.5</i>	Miyato Sima, breakwater.	38° 19.4' N 141° 10.2' E	Fl.R. period 4s	27 8	3	Red tower; 16.	
4436 <i>M 6524</i>	Shiogama Ko Range, front.	38° 19.0' N 141° 01.6' E	FR.	85 26	8	White square iron framework tower; 79.	
4440 <i>M 6524.1</i>	-Rear, about 256 meters 266° from front.	38° 19.0' N 141° 01.4' E	FR.	138 42	8	White square iron framework tower; 69.	
4442 <i>M 6523</i>	-Outer breakwater.	38° 19.2' N 141° 03.3' E	Fl.R. period 4s	24 7	6	Red tower; 19.	
4444 <i>M 6522</i>	Jizo Shima.	38° 19.2' N 141° 04.5' E	Fl.W. period 4s	69 21	14	White octagonal stone tower; 36.	
4448 <i>M 6521.4</i>	Siogama Ko, Hanabuti, breakwater.	38° 18.2' N 141° 05.2' E	Iso.G. period 6s	30 9	6	White round concrete tower; 22.	
4452 <i>M 6521</i>	Hanabuchi.	38° 17.0' N 141° 05.0' E	Al.FI.(2)R.G. period 20s	207 63	21	White round concrete tower; 75.	Visible 172° -050°.
4454 <i>M 6521.5</i>	Siogama Kobama A.	38° 18.1' N 141° 05.5' E	Fl.G. period 3s	30 9	5	White concrete tower; 22.	
4456 <i>M 6521.35</i>	Sendai Ku.	38° 17.0' N 141° 04.0' E	Iso.R. period 4s	36 11	11	Red round concrete tower; 33.	
4457 <i>M 6521.25</i>	-N. detached breakwater, S. head.	38° 16.0' N 141° 03.7' E	Fl.R. period 4s	46 14	4	Red tower; 34.	
4457.5	-S. breakwater, E. head.	38° 15.8' N 141° 04.1' E	Fl.G. period 4s	52 16	7		
4458 <i>M 6521.32</i>	Siogama Ko Matugahama, breakwater.	38° 16.4' N 141° 03.2' E	Fl.R. period 3s	36 11	6	Red round concrete tower; 22.	
4460 <i>M 6521.2</i>	-N. breakwater, S. head.	38° 16.2' N 141° 02.5' E	Fl.(2)R. period 6s	52 16	4	Red round concrete structure; 46.	
4464 <i>M 6521.1</i>	-Sendai, S. breakwater, head.	38° 15.9' N 141° 02.8' E	Fl.(2)G. period 6s	59 18	4	White round concrete structure; 28.	
4472 <i>M 6518</i>	Yuriage Ko, Training Wall.	38° 10.0' N 140° 58.0' E	Iso.G. period 6s	30 9	10	White round concrete tower; 24.	
4476 <i>M 6517.5</i>	Yanoma AVIATION LIGHT.	38° 08.0' N 140° 55.0' E	Al.FI.W.G. period 4.3s	56 17		Iron framework tower; 49.	
4478 <i>M 6517.47</i>	Soma Ko, breakwater, NE. head.	37° 51.9' N 140° 58.8' E	Fl.(2)G. period 6s	45 14	5	White tower; 39.	

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JAPAN-HONSHU-EAST COAST							
4479 <i>M 6517.46</i>	-N. breakwater, head.	37° 51.4' N 140° 58.3' E	Fl.(2)R. period 6s	30 9	5	Red tower; 30.	
4480 <i>M 6517.4</i>	Soma Ko.	37° 50.5' N 140° 58.3' E	Iso.G. period 4s	43 13	12	White round concrete tower; 36.	
4484 <i>M 6517.45</i>	-E. breakwater, head.	37° 50.3' N 140° 57.9' E	Fl.R. period 3s	33 10	6	Red round concrete tower; 22.	
4488 <i>M 6517</i>	Matukawura Ko, S. breakwater.	37° 50.2' N 140° 58.6' E	Fl.G. period 4s	49 15	10	White round concrete tower; 22.	
4492 <i>M 6517.2</i>	-Fence, breakwater, head.	37° 49.2' N 140° 58.6' E	F.Fl.G. period 4s	33 10	F. 5 Fl 11	White round concrete structure; 30.	
4496 <i>M 6516</i>	Unoo Zaki.	37° 49.0' N 140° 59.0' E	Fl.W. period 10s	131 40	17	White square concrete tower; 43.	Radar reflector.
4497 <i>M 6516.85</i>	Tohokundenryoku.	37° 40.2' N 141° 01.9' E	Dir.Oc.W.R.G. period 8s	36 11	W. 7 R. 6 G. 6	White tower; 23.	R. 311°-313° 30' , W.- 316° 30' , G.-319° . Emergency light W. 2M, R. 1M, G. 1M.
4498 <i>M 6516.8</i>	Haramati, breakwater.	37° 39.8' N 141° 02.2' E	Fl.G. period 5s	56 17	4	White round tower; 29.	
4499 <i>M 6516.7</i>	-E. breakwater.	37° 39.7' N 141° 02.7' E	Fl.R. period 5s	59 18	7	Red tower; 32.	
4500 <i>M 6515.4</i>	Toden Hukusima, S. breakwater, head.	37° 25.2' N 141° 02.7' E	Iso.G. period 6s	49 15	12	White round concrete structure; 36.	
4504 <i>M 6515</i>	Oragahama.	37° 21.6' N 141° 02.5' E	Fl.W. period 8s	134 41	17	White tower; 38.	
4508 <i>M 6515.2</i>	Yotukura Ko, northward.	37° 19.0' N 141° 02.5' E	Fl.(2)G. period 9s	52 16	13	White round concrete tower; 39.	
4512 <i>M 6514.96</i>	Hisanohoma Ko Range, front.	37° 14.0' N 141° 01.0' E	F.Y.	180 55	20	White round iron column, triangular topmark; 17.	Occasional.
4516 <i>M 6514.97</i>	--Rear, 255° 12' from front.	37° 14.6' N 141° 00.8' E	F.Y.	223 68	20	White round concrete structure, triangular topmark; 39.	Occasional.
4520 <i>M 6514.95</i>	Toden Hiro, breakwater.	37° 14.3' N 141° 01.7' E	Iso.G. period 6s	56 17	7	White round concrete tower; 42.	Horn.
4524 <i>M 6514.6</i>	Hisanohama Ko, N. breakwater head.	37° 09.0' N 141° 00.0' E	Iso.R. period 8s	49 15	12	Red round concrete structure; 33.	
4528 <i>M 6514.9</i>	-S. breakwater, N. head.	37° 08.6' N 141° 00.6' E	F.Fl.G. period 5s	49 15	F. 6 Fl 12	White round concrete tower; 36.	
4532 <i>M 6514.8</i>	W. breakwater.	37° 08.8' N 141° 00.5' E	Fl.(2)R. period 6s	39 12	9	Red tower; 23.	
4536 <i>M 6514.2</i>	Yotsukura Ko Oki, S. detached breakwater.	37° 06.5' N 141° 00.1' E	Fl.(2)G. period 6s	34 10	7	White round concrete structure; 25.	
4540 <i>M 6514.1</i>	-S. breakwater, head.	37° 06.3' N 140° 59.8' E	Iso.G. period 4s	43 13	5	White round concrete structure; 31.	
4542 <i>M 6514.3</i>	-Detached breakwater, S. head.	37° 06.5' N 141° 00.2' E	Fl.(2)R. period 6s	43 13	5	Red tower; 30.	
4550 <i>M 6513</i>	Toyoma Ko, detached breakwater.	37° 00.5' N 140° 59.1' E	Fl.(3)G. period 12s	39 12	8	White tower; 30.	
4552 <i>M 6512</i>	Shioya Misaki.	36° 59.7' N 140° 58.9' E	Fl.W. period 15s	240 73	22	White tower; 89.	
4556 <i>M 6511</i>	Toyoma Ko, outer breakwater, head.	36° 59.5' N 140° 58.9' E	Fl.(2)G. period 6s	46 14	8	White round structure; 31.	
4560 <i>M 6508</i>	Ena Ko, W. breakwater, head.	36° 58.1' N 140° 57.7' E	Fl.G. period 5s	49 15	6	White tower; 43.	
4564 <i>M 6509.6</i>	-Offing breakwater, S. head.	36° 57.7' N 140° 58.3' E	Fl.R. period 3s	49 15	9	Red round concrete structure; 36.	

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JAPAN-HONSHU-EAST COAST							
4580 <i>M 6507.4</i>	Nakanosaki Ko, E. breakwater.	36° 57.4' N 140° 57.2' E	Fl.R. period 3s	33 10	11	Red round concrete tower; 25.	
4584 <i>M 6507</i>	-Basin, W. breakwater.	36° 57.4' N 140° 57.3' E	Fl.G. period 3s	33 10	11	White round concrete tower; 30.	
4588 <i>M 6505.6</i>	-Offing, E. breakwater.	36° 57.0' N 140° 57.0' E	Fl.(2)R. period 8s 2 fl. 2s, ec. 6s	46 14	9	Red round concrete tower; 33.	
4592 <i>M 6505.4</i>	-Offing, W. breakwater.	36° 57.2' N 140° 57.4' E	Iso.G. period 4s	46 14	12	White cylindrical concrete structure; 34.	
4604 <i>M 6505</i>	Ryugasaki Hana.	36° 57.0' N 140° 57.2' E	Fl.W. period 3s	49 15	12	White round iron tower on piles; 52.	
4608 <i>M 6504</i>	Bandokoro.	36° 56.0' N 140° 55.7' E	Iso.W. period 6s	115 35	17	White round concrete tower; 36.	
ONAHAMA KO:							
4612 <i>M 6500.4</i>	-E. breakwater, S. head.	36° 56.0' N 140° 55.0' E	F.Fl.R. period 5s	46 14	F 6 Fl 12	Red round concrete tower; 36.	
4616 <i>M 6501</i>	-W. breakwater, E. head.	36° 56.3' N 140° 54.6' E	Fl.G. period 3s	39 12	6	White tower; 31.	
4620 <i>M 6500.6</i>	-Misaki breakwater.	36° 56.0' N 140° 54.7' E	Fl.(2)G. period 6s	46 14	8	White round concrete structure; 33.	
4624 <i>M 6502</i>	-Inner breakwater.	36° 56.4' N 140° 54.8' E	Iso.R. period 6s	33 10	7	Red round concrete tower; 33.	
4632 <i>M 6499.8</i>	-S. breakwater, W. head.	36° 54.3' N 140° 53.2' E	Fl.(2)R. period 7s	62 19	13	Red concrete structure; 52.	
4636 <i>M 6500</i>	-No. 2, W. breakwater.	36° 55.1' N 140° 53.2' E	Fl.G. period 5s	49 15	10	White quadrangular iron framework structure; 39.	
4640 <i>M 6503</i>	-Huzi Kosan Sea berth.	36° 55.2' N 140° 52.8' E	Mo.(U)W. period 10s	95 29	15		Auxiliary lights Mo.(U)R. 180 meters E. and 185 meters WSW. Horn: 1 bl. ev. 20s. Radar reflector.
4644 <i>M 6502.8</i>	-Hassaki, breakwater.	36° 54.6' N 140° 52.1' E	Fl.(3)G. period 13s	56 17	13	White round concrete structure; 43.	
4648 <i>M 6503.5</i>	-Hassaki, outer breakwater, W. head.	36° 54.6' N 140° 52.1' E	Fl.R. period 3s	56 17	10	Red cylindrical concrete structure; 43.	
4652 <i>M 6499</i>	Nakoso Ko.	36° 51.7' N 140° 47.6' E	Fl.G. period 5s	43 13	3	White round concrete tower; 30.	
4656 <i>M 6498.2</i>	Hirakata Ko, S. breakwater.	36° 51.6' N 140° 48.0' E	Fl.(2)G. period 6s	49 15	7	White concrete structure; 31.	
4660 <i>M 6496.6</i>	Otsu Misaki.	36° 49.6' N 140° 48.4' E	Fl.W. period 8s	184 56	20	White round concrete tower; 56.	
4664 <i>M 6497</i>	Otsu Ko breakwater, near Otsu Hana.	36° 49.4' N 140° 47.5' E	Iso.R. period 4s	43 13	12	Red round tower; 28.	
4668 <i>M 6496.3</i>	Kawajiri.	36° 39.3' N 140° 42.5' E	Iso.W. period 6s	157 48	19	White tower; 56.	Visible 213° -013° .
4672 <i>M 6496.2</i>	-Kawajiri, S. breakwater, head.	36° 38.8' N 140° 42.4' E	F.Fl.G. period 3s	49 15	F 5 Fl 12	White round concrete tower; 36.	
4676 <i>M 6496.1</i>	Ose Ko, breakwater.	36° 34.6' N 140° 39.6' E	Iso.R. period 4s	33 10	4	Red round concrete tower; 28.	
4680 <i>M 6496.04</i>	Moto-Kawarago Ko, S. breakwater.	36° 32.2' N 140° 39.1' E	F.Fl.R. period 5s	39 12	F 6 Fl 11	Red round concrete tower; 28.	
4684 <i>M 6495.9</i>	Kuji Ko, N. breakwater.	36° 29.9' N 140° 37.7' E	Fl.R. period 3s	43 13	6	Red round concrete tower; 31.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-EAST COAST							
4688 <i>M 6495.8</i>	Hitachi.	36° 30.0' N 140° 38.0' E	Fl.(3)W. period 25s	138 42	18	White round concrete tower; 82.	Visible 194° -029° .
4692 <i>M 6496</i>	-W. breakwater, head.	36° 28.8' N 140° 37.9' E	Fl.(2)G. period 7s	62 19	13	White tower; 52.	
4696 <i>M 6496.03</i>	-SE. breakwater, head.	36° 28.7' N 140° 38.2' E	Fl.R. period 6s	59 18	13	Red tower; 52.	
4700 <i>M 6496.02</i>	Tokai Nuclear Plant, N. breakwater, head.	36° 28.0' N 140° 37.0' E	Fl.R. period 4s	46 14	12	Red round concrete structure; 32.	
4702 <i>M 6495.6</i>	Hitati Isozaki Ko.	36° 23.0' N 140° 37.6' E	Fl.G. period 3s	36 11	5	White tower; 22.	
4704 <i>M 6495.5</i>	Isozaki Misaki.	36° 22.6' N 140° 37.7' E	Fl.W. period 12s	118 36	17	White round concrete tower; 46.	Visible 198° -358° .
RACON						20	
4708 <i>M 6495.3</i>	Naka-Minato Ko, S. breakwater.	36° 20.0' N 140° 36.3' E	Fl.(2)G. period 9s	46 14	12	White quadrangular iron framework structure; 28.	
4710 <i>M 6495.45</i>	-Approach.	36° 21.0' N 140° 37.0' E	Fl.(2)R. period 6s	29 9	6	Red tower; 19.	
4720 <i>M 6495</i>	-E. breakwater.	36° 20.1' N 140° 36.4' E	Fl.(2)R. period 9s	46 14	6	Red round tower; 31.	
4724 <i>M 6495.04</i>	-Inner breakwater, head.	36° 20.1' N 140° 36.2' E	Iso.R. period 4s	39 12	7	Red round concrete structure; 31.	
4728 <i>M 6495.4</i>	-Naka-Minato Ko, breakwater.	36° 20.0' N 140° 36.5' E	Fl.R. period 3s	46 14	9	Red round concrete tower; 36.	
4732 <i>M 6494.2</i>	Oarai Misaki.	36° 17.9' N 140° 35.0' E	Fl.R. period 4s	49 15	12	Red tower; 33.	
4740 <i>M 6493.2</i>	Kashima.	35° 59.0' N 140° 39.0' E	Fl.W. period 5s	207 63	21	White round concrete tower; 105.	Visible 160° -329° .
4741 <i>M 6492.4</i>	-Kashima Ko.	35° 57.2' N 140° 41.4' E	Dir.F.W.R.G.	56 17	13	White tower, red bands; 52.	R. 218° 20' -220° 20' , W.- 224° 20' , G.-226° 20' . Daytime range W. 5M, R. 4M, G. 4M.
			Iso.R.G. period 4s		13		R. 216° 20' -218° 20' , G. 226° 20' -228° 20' . Daytime range 4M.
4744 <i>M 6492</i>	-S. breakwater, head.	35° 57.2' N 140° 43.0' E	Fl.W. period 3s	52 16	12	White square structure; 35.	
4750 <i>M 6491.4</i>	-Range, front.	35° 55.3' N 140° 42.5' E	F.G.	82 25	15	White tower; 72.	F.W. 4M by day.
4750.1 <i>M 6491.41</i>	--Rear, 200 meters 184° 30' from front.	35° 55.2' N 140° 42.5' E	F.G.	102 31	15	White tower; 88.	F.W. 4M by day.
CHOSHI KO:							
4752 <i>M 6482</i>	-Ichino Shima, head of breakwater, S. side of entrance to Tone Gawa.	35° 44.7' N 140° 51.6' E	Iso.W. period 4s	53 16	13	White tower; 53.	
4756 <i>M 6483</i>	-W. breakwater.	35° 44.7' N 140° 51.8' E	F.Fl.R. period 3s	43 13	F. 7 Fl 12	Red quadrangular iron framework structure; 28.	
4760 <i>M 6483.4</i>	-Middle breakwater.	35° 44.5' N 140° 51.7' E	F.R.	39 12	10	Red round concrete structure; 33.	Visible 205° -065° .
4764 <i>M 6482.4</i>	-Tyosi Ko, E. breakwater, head.	35° 44.8' N 140° 51.8' E	Fl.G. period 3s	49 15	11	White round concrete structure; 39.	
4768 <i>M 6482.2</i>	-N. breakwater, head.	35° 45.2' N 140° 51.7' E	Fl.(2)G. period 6s	49 15	6		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-EAST COAST							
4776 M 6491	-Choshi Ko No. 2 Fishery Basin, E. groin, head.	35° 44.0' N 140° 50.6' E	Fl.R. period 5s	23 7	6	Red square iron framework tower; 22.	
4780 M 6478	Inubo Saki , near SE. extremity of promontory.	35° 42.5' N 140° 52.1' E	Fl.W. period 15s	171 52	19	White round brick tower; 105.	Visible 169° -065° . Siren: 1 bl. ev. 35s. Signal station. DGPS Station.
4784 M 6478.4	Nagasaki Hana.	35° 41.4' N 140° 52.1' E	F.W.	75 23		White tower; 67.	
4788 M 6479	Togawa Ko, E. breakwater, head.	35° 41.6' N 140° 51.0' E	Fl.R. period 4s	43 13	5	Red round concrete structure, quadrangular concrete base; 31.	
4796 M 6477	Iioka.	35° 41.4' N 140° 44.6' E	Iso.W. period 6s	243 74	20	White round concrete tower; 31.	Visible 113° -271° .
4800 M 6472	Taito Saki.	35° 18.0' N 140° 25.0' E	Fl.W. period 10s	236 72	22	White round octagonal tower; 53.	
4804 M 6471.1	Ohara Ko Range No. 1, front.	35° 15.4' N 140° 24.2' E	F.G.	39 12	10	White round concrete tower, triangular topmark; 36.	
4808 M 6471.11	-Rear, 46 meters 261° 54' from front.	35° 15.4' N 140° 24.2' E	F.G.	46 14	10	White round concrete tower, triangular topmark; 43.	
4812 M 6471.03	Ohara Ko, N. breakwater.	35° 15.2' N 140° 24.6' E	Iso.R. period 4s	29 9	7	Red round concrete tower; 19.	
4816 M 6471	-E. breakwater, N. end.	35° 15.3' N 140° 24.4' E	Iso.W. period 4s	30 9	5	White round concrete structure; 33.	
4818 M 6470.9	-Breakwater, head.	35° 15.4' N 140° 24.5' E	Fl.(2)G. period 6s	46 14	5	White tower; 32.	
4824 M 6470.7	Iwawada Ko, breakwater.	35° 10.5' N 140° 22.1' E	F.Fl.(2)R. period 8s 2 fl. 3s, ec. 5s	33 10	F. 6 Fl 11	Red round concrete tower; 29.	
4826 M 6470.8	Onzyuku Ko.	35° 10.5' N 140° 21.2' E	Fl.G. period 3s	27 8	5	White tower; 18.	
4828 M 6470.2	Kazuea Toyohama Ko, breakwater.	35° 09.1' N 140° 20.1' E	Iso.G. period 4s	39 12	11	White round concrete structure; 31.	
4832 M 6470.3	Kawatzu Ko, S. Breakwater.	35° 09.0' N 140° 20.0' E	F.Fl.W. period 5s	33 10	F. 8 Fl 11	White round concrete tower; 29.	
4836 M 6470	Katuura.	35° 08.1' N 140° 19.3' E	Fl.(2)W. period 20s	233 71	22	White octagonal concrete tower; 69.	Visible 229° -073° .
4840 M 6470.14	-S. breakwater.	35° 08.4' N 140° 19.8' E	Iso.R. period 6s	39 12	11	Red round concrete tower; 28.	
4844 M 6470.1	-W. breakwater.	35° 08.5' N 140° 18.8' E	Iso.G. period 6s	36 11	11	White round concrete tower; 31.	
KAMOGAWA WAN:							
4848 M 6469	-Kominato Ko, on Hira Shima.	35° 07.1' N 140° 11.7' E	Fl.R. period 3s	31 9	11	STARBOARD (B) R, tower, topmark; 27.	
4852 M 6469.2	--E. breakwater, head.	35° 07.2' N 140° 11.9' E	Oc.W. period 8s	33 10	11	Round concrete structure, black and white bands; 28.	
4856 M 6469.4	--N. breakwater, head.	35° 07.1' N 140° 11.9' E	F.Fl.G. period 4s	36 11	F. 5 Fl 11	White round concrete structure; 31.	
4860 M 6468.4	-Amatsu Ko Range, front.	35° 07.0' N 140° 10.0' E	F.R.	72 22	10	White round tower, quadrangular topmark; 43.	
4864 M 6468.41	--Rear, 80 meters 330° from front.	35° 07.2' N 140° 09.7' E	F.R.	203 62	10	White round tower, quadrangular topmark; 19.	
4868 M 6468.2	--W. breakwater.	35° 08.0' N 140° 09.8' E	Iso.G. period 6s	39 12	11	White round concrete tower; 28.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-EAST COAST							
4872 <i>M 6468</i>	--S. breakwater.	35° 07.0' N 140° 10.0' E	Iso.R. period 6s	43 13	12	Red round concrete tower; 31.	
4876 <i>M 6467.4</i>	Hamogji Ko, breakwater.	35° 07.0' N 140° 08.6' E	Fl.R. period 4s	39 12	5	Red round concrete tower; 27.	
4880 <i>M 6466</i>	Kamogawa , on Ara Shima.	35° 05.4' N 140° 06.8' E	Fl.(3)W. period 13s	85 26	15	White round concrete tower; 36.	
4882 <i>M 6466.6</i>	Kamogawa Ko.	35° 05.4' N 140° 06.7' E	Iso.R. period 6s	39 12	11	Red round concrete tower; 28.	
4884 <i>M 6466.4</i>	Oura, E. entrance.	35° 05.6' N 140° 06.6' E	Iso.G. period 6s	36 11	4	White round concrete tower; 31.	
4888 <i>M 6465</i>	Emi Ko Mai Shima.	35° 03.5' N 140° 03.7' E	Fl.(2)R. period 6s	36 11	11	Red round concrete tower; 31.	
4890 <i>M 6463</i>	Wado Ko.	35° 02.0' N 140° 00.8' E	Fl.R. period 4s	42 13	7	Red concrete structure; 31.	
4892 <i>M 6465.4</i>	Hamanabuto Ko, breakwater.	35° 05.0' N 140° 07.0' E	F.Fl.W. period 5s	39 12	F 8 Fl 11	White round concrete structure; 27.	F.W. also lights reef 70 meters S.
4900 <i>M 6461</i>	-Middle breakwater, head.	34° 57.3' N 139° 58.1' E	F.Fl.(2)R. period 8s	36 11	F 8 Fl 11	Red round concrete structure; 31.	
4904 <i>M 6462</i>	-Chikura.	34° 57.2' N 139° 58.0' E	Dir.F.W.R.G.	39 12	W. 11 R. 10 G. 11	White tower; 42.	R. 228° 30' -230° 30' , W.- 232° 30' , G.-234° 30' . Iso.Y. 4s above main light. Emergency light W. 2M, R. 1M, G. 2M.
4912 <i>M 6459</i>	Nanaura Ko Range, front.	34° 56.0' N 139° 58.0' E	F.G.	36 11	11	White round tower, quadrangular topmark; 33.	
4916 <i>M 6459.1</i>	-Rear, 116 meters 289° 35' from front.	34° 55.8' N 139° 57.4' E	F.G.	49 15	12	White round tower, quadrangular topmark; 39.	
JAPAN-NAMPO SHOTO							
4920 <i>M 6276</i>	Miyake Jima, NW. point of island.	34° 07.0' N 139° 30.0' E	Fl.W. period 5s	79 24	14	White square stone structure; 32.	Visible 352° -202° .
4922 <i>M 6275.5</i>	-Yunohama Ko.	34° 07.3' N 139° 32.2' E	Oc.G. period 8s	46 14	12	White tower; 28.	
4924 <i>M 6275</i>	-Satado Misaki	34° 05.0' N 139° 34.0' E	Fl.W. period 15s	118 36	17	White round tower; 46.	Visible 180° -008° .
4928 <i>M 6276.1</i>	Izu Miyake Ko, jetty.	34° 04.8' N 139° 34.0' E	Fl.W. period 3s	56 17	10	White round concrete structure; 49.	
4932 <i>M 6276.4</i>	Tsubota Ko, breakwater.	34° 03.4' N 139° 32.8' E	Fl.G. period 5s	66 20	6	White tower; 28.	
4936 <i>M 6276.2</i>	Ako Ko, breakwater.	34° 04.0' N 139° 28.8' E	Fl.G. period 8s	46 14	3	White round concrete tower; 28.	
4938 <i>M 6276.3</i>	-Breakwater, head.	34° 03.9' N 139° 28.8' E	Fl.W. period 3s	52 16	12		
4939 <i>M 6276.6</i>	Mikura Sima, breakwater.	33° 53.6' N 139° 35.4' E	Fl.R. period 4s	39 12	4	Red tower; 23.	
4940 <i>M 6279.6</i>	Ogosi Hana.	33° 09.0' N 139° 45.0' E	Fl.(2)W. period 20s 2 fl. 7s, ec. 13s	325 99	25	White round concrete structure; 49.	Visible 024° -258° .
4948 <i>M 6278.1</i>	-Kaminato Anchorage.	33° 08.0' N 139° 48.4' E	Iso.G. period 4s	55 17	8	White tower; 30.	
4950 <i>M 6278.5</i>	-Sokodo Hakuti, breakwater.	33° 07.4' N 139° 49.2' E	Fl.W. period 3s	52 16	7	White tower; 33.	

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JAPAN-NAMPO SHOTO							
4952 M 6277	Ishizumiga Hana.	33° 05.0' N 139° 51.0' E	Fl.W. period 10s	315 96	25	White round concrete tower; 56.	Radiobeacon 360 meters WNW. DGPS Station 360 meters WNW.
4956 M 6277.4	-Yaene Ko, breakwater, head.	33° 05.9' N 139° 46.5' E	Iso.G. period 6s	49 15	8	White tower; 28.	
Ogasawara Gunto:							
4960 M 8348	-Futami Ko, breakwater.	27° 05.6' N 142° 11.7' E	Oc.G. period 8s	33 10	9	White round fiberglass structure; 31.	
4962 M 8347	-E. breakwater.	27° 05.4' N 142° 11.8' E	Fl.(2)R. period 6s	30 9	6		
4964 M 8346	-Futami Ko.	27° 04.8' N 142° 12.5' E	Fl.W. period 4s	230 70	10	White round concrete structure; 33.	
4968 M 8346	-Futami Ko, entrance.	27° 04.8' N 142° 12.5' E	Dir.F.W.R.G.	213 65	W. 13 R. 10 G. 10	Same structure as Futami Ko light.	R. 083° 15' -087° 15' , W.- 090° 15' , G.-094° 15' .
4972 M 8350	Haha Shima Approach.	26° 38.0' N 142° 09.7' E	Dir.F.W.R.G.	131 40	W. 13 R. 9 G. 10	White tower; 38.	R. 063° 52' -068° 52' , W.- 075° 52' , G.-080° 52' .
4974 M 8351	-Breakwater, head.	26° 37.8' N 142° 09.7' E	Fl.G. period 3s	36 11	8	White tower; 31.	
KAZAN RETTO (VOLCANO ISLANDS):							
4976 M 8360	-Ito Jima AVIATION LIGHT.	24° 46.9' N 141° 19.4' E	Al.FI.W.G.	367 112			
JAPAN-HONSHU-EAST COAST							
4980 M 6458	Awa Shirahama Ko.	34° 55.0' N 139° 56.0' E	F.FI.W.R. period 5s	36 11	F. 8 FI 11	White round concrete structure; 31.	R. 325° -085° .
4984 M 6457	Otohama Ko Range, front.	34° 55.0' N 139° 56.0' E	F.G.	24 7	10	White round concrete structure, rectangular topmark; 22.	
4988 M 6457.1	-Rear, about 1280 meters 271° 54' from front.	34° 54.5' N 139° 55.8' E	F.G.	39 12	11	White round concrete structure, rectangular daymark; 30.	
4990 M 6457.4	Otohama Ko.	34° 54.3' N 139° 55.9' E	Fl.R. period 3s	56 17	9	Red tower; 33.	
4992 M 6456	Najima Saki.	34° 54.1' N 139° 53.3' E	Fl.W.R. period 15s	125 38	17	White tower; 95.	W. 254° -080° , R.-101° .
RAMARK							
5000 M 6455	Tomisaki Ko, S. breakwater, head.	34° 55.0' N 139° 50.0' E	F.FI.R. period 6s	33 10	F. 6 FI 11	Red round concrete structure; 28.	
5004 M 6452	Suno Saki.	34° 58.3' N 139° 45.6' E	Al.FI.W.R. period 30s	146 44	18	White round concrete tower; 49.	Visible 002° -252° .
TATEYAMA WAN:							
5012 M 6451	-Tateyama Ko, breakwater, head.	34° 59.0' N 139° 51.0' E	Iso.G. period 4s	36 11	11	White square iron framework tower; 28.	
5016 M 6451.2	--Heliport AVIATION LIGHT.	34° 59.0' N 139° 51.0' E	Al.FI.W.G. period 10s	59 18		Iron framework tower; 53.	Maintained by National Defense Agency.
5020 M 6448	-Funagata Ko, breakwater, head.	35° 01.0' N 139° 51.0' E	Iso.G. period 6s	33 10	11	Square white concrete tower; 25.	

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JAPAN-HONSHU-EAST COAST							
5024 <i>M 6448.4</i>	--E. breakwater, head.	35° 01.4' N 139° 50.8' E	F.Fl.R. period 5s	30	F. 8 9 Fl 10	Red round concrete structure; 28.	
5028 <i>M 6447</i>	-Hunagata Hira Sima.	35° 01.3' N 139° 50.5' E	Fl.W. period 4s	36	11	White round concrete tower; 32.	
5030 <i>M 6446.5</i>	Tomiura Wan, breakwater.	35° 02.2' N 139° 49.5' E	Iso.R. period 4s	26	7	Red tower; 20.	
5032 <i>M 6446</i>	Katuiyama , Uki Shima.	35° 06.0' N 139° 49.0' E	Fl.W. period 5s	204	20	White round concrete tower; 46.	
5036 <i>M 6445.5</i>	Kachiyama Ko, N. breakwater.	35° 06.6' N 139° 49.5' E	Iso.R. period 4s	39	8	Red round concrete tower; 29.	
5040 <i>M 6445</i>	Hota Ko, breakwater.	35° 08.0' N 139° 50.0' E	F.Fl.G. period 5s	33	F. 5 10 Fl 11	White round concrete tower; 28.	
5044 <i>M 6354</i>	Tsurugi Saki.	35° 08.5' N 139° 40.6' E	Al.Fl.(2+1)W.G. period 30s	133	17	White tower; 55.	Visible 207° -075° .
5048 <i>M 6354.3</i>	Makuchi Ko.	35° 08.6' N 139° 40.7' E	Fl.W. period 4s	36	5	White round concrete structure; 32.	
5050 <i>M 6354.4</i>	Kaneda Wan, Iwabu.	35° 09.4' N 139° 40.1' E	Iso.G. period 6s	24	6	White tower; 18.	
5051 <i>M 6444.5</i>	Kanaya Ko, W. breakwater.	35° 09.7' N 139° 49.4' E	Iso.R. period 6s	33	7	Red concrete structure; 18.	
5052 <i>M 6444</i>	Hamakanaya Ko, breakwater.	35° 10.0' N 139° 49.0' E	F.Fl.R. period 5s	30	F. 6 9 Fl 10	Red round concrete tower; 27.	
5052.5 <i>M 6443.9</i>	Hagyu Ko.	35° 12.0' N 139° 49.6' E	Fl.R. period 3s	20	3	Red tower; 16.	
5053 <i>M 6443.8</i>	Takeoka Ko, W. breakwater, head.	35° 12.6' N 139° 50.6' E	Fl.(2)R. period 6s	31	4	Red concrete tower; 19.	
5054	<i>Uraga Suido LANBY 1.</i>	35° 12.5' N 139° 46.8' E	Iso.W. period 4s		11	SAFE WATER RW, topmark.	Radar reflector.
	RACON		OE(--- •)		5		
5055 <i>M 6359.5</i>	Okubo, breakwater.	35° 16.7' N 139° 50.8' E	Fl.R. period 3s	31	3	Red round concrete structure; 18.	
5055.5 <i>M 6443.5</i>	Kawana, breakwater, head.	35° 18.0' N 139° 49.5' E	Fl.(2)R. period 6s	38	5	Red tower; 30.	
TOKYO WAN:							
5056 <i>M 6355</i>	-Ashika Shima, on rock.	35° 13.0' N 139° 44.0' E	Fl.W. period 3s	49	11	Black round concrete tower, white top; 46.	
5060 <i>M 6357</i>	-Kurihama Wan.	35° 13.3' N 139° 43.2' E	Iso.G. period 6s	43	8	White tower; 43.	
5064 <i>M 6358</i>	-Uraga Zyuko Atagoyama Range, front.	35° 14.0' N 139° 43.0' E	F.G.	118	8	White iron post, diamond topmark; 20.	
5068 <i>M 6358.1</i>	--Rear, 27 meters 291° 30' from front.	35° 14.2' N 139° 43.3' E	F.G.	128	8	White iron post, diamond topmark; 9.	
5072 <i>M 6359</i>	-Yokosuka Ko.	35° 14.8' N 139° 44.1' E	Fl.G. period 3s	39	5	White round concrete tower; 31.	
5076 <i>M 6360</i>	-Kannon Saki.	35° 15.2' N 139° 44.9' E	Fl.(2)W. period 15s 2 fl. 2s, ec. 13s	184	20	White octagonal concrete tower; 62.	Visible 152° -017° .
5080 <i>M 6362</i>	-Yokosuka Ko Hashirimizu, breakwater.	35° 16.0' N 139° 44.0' E	Fl.G. period 3s	20	4	White round concrete tower; 14.	
5084 <i>M 6361</i>	--N. breakwater.	35° 15.9' N 139° 44.0' E	Fl.R. period 3s	36	5	Red tower; 31.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-EAST COAST							
5092 <i>M 6368</i>	-Daini Kaiho (Fort No. 2).	35° 18.7' N 139° 44.5' E	Fl.W.R. period 5s	66 20	13	White round metal tower, concrete base; 39.	R. 222° -310° , W.-222° .
	-RACON		(- - - - -)		9		Located 150 meters E. of light.
5093	-Uraga Suido 6.	35° 19.8' N 139° 42.8' E	Iso.W. period 4s			SAFE WATER RW, pillar, topmark.	Radar reflector.
	-RACON		M(- -)		5		
5094	-Nakano Se LANBY D.	35° 24.7' N 139° 45.5' E	Mo.(D)R. period 8s			11 STARBOARD (B) R, topmark.	
	-RACON		OE(- - - •)		5		
5095 <i>M 6370.09</i>	-Kisarazu Ko Offing.	35° 25.1' N 139° 47.0' E	Fl.R. period 3s	31 9	7	Yellow and red beacon, red triangular topmark.	Radar reflector.

Section 4

South Coast of Honshu

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-SOUTH COAST							
TOKYO WAN:							
5096 <i>M 6441</i>	-Futtsu N., NE. of Futtsu Saki.	35° 19.5' N 139° 48.7' E	Fl.G. period 3s	20 6	5	PORT (B) G, beacon, topmark; 17.	
5100 <i>M 6442</i>	-Futtsu S.	35° 19.2' N 139° 48.8' E	Fl.G. period 5s	23 7	3	PORT (B) G, tower, topmark; 20.	
5104 <i>M 6443</i>	-Futtsu Ko, E. breakwater.	35° 19.1' N 139° 49.0' E	F.Fl.G. period 5s	36 11	F. 5 Fl. 9	White round concrete tower; 28.	
5106 <i>M 6440.8</i>	--W. breakwater.	35° 20.1' N 139° 49.3' E	Fl.R. period 3s	26 8	4	Red tower; 19.	
5108 <i>M 6440.6</i>	-Futtsu LNG Tanker berth.	35° 20.5' N 139° 49.4' E	Mo.(U)W. period 10s	95 29	8		Mo.(U)W. 10s 230 meters NNW. and 200 meters SSE.
5110 <i>M 6440.4</i>	-Futtsu Passage, W. breakwater.	35° 20.9' N 139° 49.2' E	Fl.G. period 4s	30 9	4	White tower; 19.	
5116 <i>M 6439.4</i>	--Range, front.	35° 21.7' N 139° 53.1' E	F.G.	52 16	12	White quadrangular iron framework structure, triangular topmark; 49.	
5120 <i>M 6439.41</i>	---Rear, about 570 meters 120° from front.	35° 21.5' N 139° 53.5' E	F.G.	125 38	12	White quadrangular iron framework structure, triangular topmark; 121.	
5124 <i>M 6440</i>	--Breakwater, W. end.	35° 22.6' N 139° 51.7' E	Fl.W. period 3s	39 12	8	White round concrete structure; 31.	
-Yokosuka Ko:							
5128 <i>M 6376</i>	--E. breakwater, N. head.	35° 19.7' N 139° 39.8' E	Fl.(2)G. period 8s	33 10	4	White round concrete structure; 28.	
5132 <i>M 6372</i>	--NE. breakwater, E. head.	35° 19.2' N 139° 40.5' E	Fl.R. period 3s	66 20	8	Red square concrete structure; 59.	
5136 <i>M 6378</i>	-Yoshikura, pier, head.	35° 17.4' N 139° 39.2' E	Mo.(U)R. period 10s	33 10	6	Red tower; 19.	
5140 <i>M 6377</i>	--W. breakwater, E. head.	35° 17.3' N 139° 41.1' E	Fl.(2)R. period 6s	43 13	5	Red round concrete structure; 36.	
5141 <i>M 6377.5</i>	--Breakwater, NW. head.	35° 16.4' N 139° 41.3' E	Fl.G. period 3s	27 8	4	White tower; 19.	
5142 <i>M 6377.25</i>	Yokosuka Ko, Otsu Wan, breakwater.	35° 16.5' N 139° 41.2' E	Iso.R. period 4s	43 13	8	Red tower; 32.	
-Yokohama Ko:							
5143 <i>M 6379.5</i>	--Tako Ne.	35° 22.5' N 139° 40.5' E	Mo.(B)Y. period 9s	19 6	5	SPECIAL Y, beacon, topmark; 20.	
5144 <i>M 6380</i>	--Kanazawa, E. breakwater, head.	35° 22.7' N 139° 39.5' E	Iso.G. period 4s	43 13	5	White round concrete structure; 33.	
5146 <i>M 6390</i>	--S. Honmoku Wharf, breakwater.	35° 23.7' N 139° 40.7' E	Fl.R. period 3s	22 7	4	Red tower; 8.	
5148 <i>M 6400.6</i>	--Nittu Honmoku Wharf Range, front.	35° 25.2' N 139° 40.7' E	F.Y.	69 21	11	Pole, red and white bands, red triangular topmark; 59.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-SOUTH COAST							
5152 <i>M 6400.61</i>	--Rear, 200 meters 268° from front.	35° 25.2' N 139° 40.6' E	F.Y.		85 26	11 Pole, red and white bands, red triangular topmark; 75.	
5156 <i>M 6401</i>	--Nissan Honmoku Wharf.	35° 25.3' N 139° 40.8' E	Mo.(N)R. period 8s		39 12	9 Red square iron framework structure; 30.	
5160 <i>M 6401.2</i>	--Gravel Wharf, breakwater.	35° 25.5' N 139° 40.9' E	Oc.R. period 4s lt. 3s, ec. 1s		39 12	4 Red round concrete structure; 31.	
5164 <i>M 6401.3</i>	--Light A, breakwater, S. head.	35° 25.6' N 139° 41.2' E	Mo.(U)W. period 8s		26 8	7 Yellow aluminum pole; 17.	
5168 <i>M 6401.32</i>	--Light B, breakwater, N. head.	35° 25.8' N 139° 41.3' E	Mo.(U)W. period 8s		26 8	7 Yellow aluminum pole; 17.	
5170 <i>M 6401.45</i>	--Beacon 1.	35° 26.3' N 139° 41.8' E	Fl.(2)G. period 6s		30 9	8 Green beacon; 30.	Radar reflector.
5172 <i>M 6401.4</i>	--Honmoku, breakwater.	35° 26.4' N 139° 41.5' E	Iso.G. period 4s		76 23	14 White round iron structure; 72.	
5176 <i>M 6401.6</i>	--Daikoku, breakwater E., head.	35° 27.4' N 139° 42.4' E	Fl.G. period 4s		52 16	10 White tower; 52.	
5180 <i>M 6401.5</i>	--W. head.	35° 26.9' N 139° 41.6' E	Iso.R. period 4s		75 23	14 Red round iron structure; 75.	
5182	--Turumi Passage, beacon 1.	35° 27.1' N 139° 42.7' E	Fl.G. period 3s			5	
5184 <i>M 6406</i>	--N. outer breakwater, S. head.	35° 27.2' N 139° 40.7' E	Fl.(2)R. period 8s		66 20	13 Red round concrete structure; 78.	
5188 <i>M 6402</i>	--Outer breakwater, S. light.	35° 27.0' N 139° 41.0' E	Fl.(2)G. period 8s		69 21	12 White round concrete tower; 79.	
5192 <i>M 6413</i>	-Lumber basin, breakwater.	35° 26.7' N 139° 39.7' E	Iso.G. period 4s		33 10	3 White round concrete tower; 29.	
5196 <i>M 6400</i>	--Observation tower.	35° 26.0' N 139° 40.0' E	Al.FI.R.G. period 20s		341 104	25 10 sided iron framework, red and white bands; 332.	
5200 <i>M 6411</i>	--N. inner breakwater, S. head.	35° 27.6' N 139° 39.5' E	Iso.R. period 4s		49 15	4 Red tower; 49.	
5204 <i>M 6407</i>	--Daikoku Wharf, W. breakwater.	35° 27.8' N 139° 40.2' E	Fl.R. period 4s		39 12	3 Red tower; 33.	
5208 <i>M 6412.5</i>	--Waste oil disposal facility.	35° 27.9' N 139° 40.8' E	Fl.R. period 3s		20 6	7 Red structure; 11.	
5210 <i>M 6417.2</i>	-Turumi Passage, A, W. side.	35° 28.4' N 139° 41.8' E	Fl.Y. period 4s		20 6	6 SPECIAL Y, beacon, topmark.	
5211 <i>M 6417.3</i>	--B.	35° 28.3' N 139° 41.3' E	Fl.Y. period 4s		20 6	6 SPECIAL Y, beacon, topmark; 20.	
	-Yokoyama ko:						
5216 <i>M 6418</i>	--Light A.	35° 29.1' N 139° 42.5' E	Fl.R. period 5s		16 5	6 Red quadrangular iron framework; 8.	
5220 <i>M 6418.2</i>	--Light B.	35° 29.2' N 139° 42.7' E	Fl.R. period 5s		16 5	6 Red quadrangular iron framework; 8.	
5224 <i>M 6418.4</i>	-Nippon Kokan Ogi Shima Range, front.	35° 29.3' N 139° 44.2' E	FG.		69 21	12 Red iron post, red and white bands.	
5228 <i>M 6418.41</i>	--Rear, 135 meters 331° from front.	35° 29.4' N 139° 44.2' E	FG.		89 27	12 Red iron post, red triangular topmark; 85.	
5232 <i>M 6419</i>	-Kawasaki Keihin Sea Berth.	35° 27.8' N 139° 46.3' E	Mo.(U)W. period 8s			10 Mooring.	Radar reflector.
5236 <i>M 6420</i>	-Tonen-Ogisima.	35° 29.0' N 139° 47.3' E	Mo.(U)W. period 10s		89 27	15	Mo.(U)W. 10s mark berth NE and SW. Horn: 1 bl. ev. 30s (bl. 3s, si. 27s).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-SOUTH COAST							
5241	-Tunnel Platform.	35° 29.3' N 139° 50.3' E	Mo.(U)W. period 10s	98	16		Fl.Y. 4s 6M beacons mark dolphins NE. and SW.
5244 M 6419.2	-Higasi Ogisima, breakwater, S. end.	35° 28.6' N 139° 45.2' E	Fl.(2)R. period 6s	59	13	Red tower; 53.	
5246 M 6421.8	-Higasi Ogisima, breakwater, N. end.	35° 29.7' N 139° 47.0' E	Iso.G. period 4s	46	10	White tower; 32.	
5248 M 6422.2	-Kawasaki, N. breakwater.	35° 30.3' N 139° 46.9' E	Iso.R. period 6s	25	7	Red tower; 17.	
5254 M 6424	-Ukisima.	35° 30.9' N 139° 47.9' E	Al.W.G. period 10s	66	W. 8 G. 7		Visible 180° -035°.
	-Haneda:						
5256 M 6426	--Tokyo International Airport, AVIATION LIGHT.	35° 33.0' N 139° 46.0' E	Al.FI.W.G. period 8.6s	151	46		
5264 M 6427	Tokyo.	35° 33.8' N 139° 49.9' E	Fl.(3)W. period 20s	95	15	White round concrete structure; 105.	Signal station.
	RACON		K(- • -)		9		
5267 M 6427.12	--W. head.	35° 34.4' N 139° 48.0' E	Fl.R. period 3s	20	3		
5268 M 6427.15	--W. breakwater.	35° 35.1' N 139° 47.0' E	Fl.(2)G. period 5s	33	10	White tower; 28.	
5272 M 6427.19	-Middle breakwater, W. head.	35° 35.5' N 139° 47.4' E	Fl.(2)R. period 5s	33	7	Red tower; 28.	
5273 M 6427.04	--N. outside breakwater, SW. head.	35° 34.7' N 139° 48.5' E	Fl.R. period 3s	36	10	Red tower; 30.	Radar reflector.
5274 M 6427.06	--NE. head.	35° 34.8' N 139° 48.6' E	Fl.G. period 3s	20	3		
5276 M 6427.4	-E. passage, W. breakwater.	35° 36.6' N 139° 49.5' E	Iso.G. period 4s	49	8	White round concrete structure; 52.	
5280 M 6427.6	--E. breakwater.	35° 36.7' N 139° 49.7' E	Iso.R. period 4s	53	8	Red round concrete structure; 52.	
5284 M 6427.8	--Detached breakwater, W. end.	35° 37.1' N 139° 49.1' E	Fl.R. period 3s	39	10	Red tower; 28.	
5288 M 6429	Katunan Ku.	35° 39.8' N 139° 56.2' E	Fl.W. period 3s	23	10	White tower; 12.	
5292 M 6428	-Urayasu Offing.	35° 36.6' N 139° 53.9' E	Q.(6)+L.Fl.W. period 15s	26	9	S. CARDINAL YB, topmark; 21.	
5296 M 6431	Tiba Ku.	35° 36.4' N 140° 01.6' E	Mo.(U)W. period 9s	59	8	Tower.	Visible 235° -215°. Radar reflector.
5300 M 6432	Chiba Ku.	35° 37.0' N 140° 04.0' E	Fl.G. period 5s	42	7	White column; 28.	
5301 M 6430.5	-N. breakwater.	35° 36.5' N 140° 04.2' E	Fl.W. period 4s	16	4	White tower; 11.	
5304 M 6430	-Sea berth.	35° 35.6' N 140° 04.9' E	Mo.(U)W. period 15s	36	11		
5308 M 6433	-Tiba.	35° 34.0' N 140° 03.0' E	Fl.(2)W. period 30s 2 fl. 10s, ec. 20s	92	15	White round iron structure, quadrangular concrete base; 59.	
5312 M 6433.6	-Tiba Ko Itihara, detached breakwater.	35° 33.4' N 140° 04.1' E	Fl.(2)G. period 6s	33	7	White round concrete tower; 28.	
5316 M 6434.2	--Breakwater.	35° 33.0' N 140° 04.2' E	Fl.(2)R. period 7s	33	11	Red round concrete structure; 28.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-SOUTH COAST							
5320 <i>M 6434.5</i>	-Tiba Ko Maruzen Sekima No. 1 Sea berth.	35° 32.4' N 140° 03.4' E	Mo.(U)W. period 12s	82 25	15		Mo.(U)W. auxiliary lights about 200 yards NE. and SSW.
5332 <i>M 6435</i>	-Chiba.	35° 30.7' N 139° 56.2' E	Mo.(U)W. period 14s	112 34	16		Four Mo.(U) 10s lights mark mooring dolphins NE and SW. Siren: 1 bl. ev. 30s (bl. 3s, si. 27s). Radar reflector.
5336 <i>M 6434.95</i>	-Tiba Ko, Sea berth.	35° 28.2' N 139° 58.0' E	Mo.(U)W. period 15s	33 10	11		
5340 <i>M 6434.9</i>	-Gas Sea berth.	35° 28.3' N 139° 58.4' E	Mo.(U)W. period 10s	33 10	11		Private light.
5341	Ukisima Tunnel, E. side, W. limit.	35° 28.0' N 139° 52.2' E	Mo.(K)Y. period 12s	22 7	10	SPECIAL Y, beacon, topmark; 20.	4 Fl.Y. 4s 6M beacons close SE.
5342	-E. side, entrance.	35° 27.7' N 139° 52.7' E	Al.W.R. period 10s	121 37	16		Visible 317° -310° .
5343	--Bridge, center.	35° 27.1' N 139° 53.4' E	F.R.G.	118 36	R. 7 G. 8		On NE. and SW. side. Bridge marked by numerous F.W., F.Y., F.G. and F.R. lights.
	--RACON		(-- • • • •)		5		
5356 <i>M 6434.67</i>	-Tiba Ko, pier, middle.	35° 30.9' N 140° 02.4' E	Mo.(U)W. period 10s	112 34	14		Mo.(U)W. 10s lights mark dolphins NE and SW. Horn: 1 bl. ev. 30s.
5364 <i>M 6347</i>	Awa Saki.	35° 07.0' N 139° 38.0' E	Fl.W. period 4s	43 13	12	White round concrete structure; 36.	A F.W. is shown about 200 meters SE.
5368 <i>M 6343</i>	Joga Shima.	35° 08.0' N 139° 37.0' E	Fl.W. period 15s	98 30	16	White round concrete tower; 39.	Visible 297° -254° .
5372 <i>M 6344</i>	I Shima.	35° 08.0' N 139° 37.0' E	Fl.(3)R. period 12s	52 16	9	Red round concrete structure; 39.	
MISAKI KO:							
5376 <i>M 6345</i>	-W. entrance, N. breakwater, head.	35° 08.2' N 139° 36.7' E	Iso.G. period 4s	42 13	12	White tower; 34.	
5380 <i>M 6349</i>	Misaki Ko, E. entrance, S. breakwater, head.	35° 08.0' N 139° 38.0' E	Iso.G. period 6s	43 13	12	White round concrete structure; 33.	
5384 <i>M 6342</i>	Moroiso Saki.	35° 09.0' N 139° 37.0' E	Iso.W. period 8s	69 21	14	White quadrangular concrete structure; 62.	R. light marks breakwater head 185 meters NE.
5388 <i>M 6338</i>	Kamegi Ko.	35° 12.0' N 139° 35.0' E	Q.(9)W. period 15s	46 14	12	W. CARDINAL YBY, topmark.	
5392 <i>M 6339</i>	Nagai Ko, breakwater, head.	35° 12.5' N 139° 36.5' E	Iso.R. period 4s	31 9	5	Red round concrete tower; 27.	
5394 <i>M 6340.5</i>	Sazima Ko.	35° 12.9' N 139° 36.7' E	Fl.(2)G. period 6s	27 8	5	White tower; 18.	
5396 <i>M 6340</i>	Sasima Ko Entrance, on Naka Ne.	35° 13.0' N 139° 36.5' E	Fl.G. period 3s	43 13	5	PORT (B) G, tower, topmark; 39.	
5398 <i>M 6336</i>	Hayama Ko.	35° 16.1' N 139° 34.0' E	Fl.W. period 3s	36 11	8		
5399 <i>M 6335</i>	Abuzuru-no-hana, breakwater.	35° 17.1' N 139° 33.9' E	Iso.R. period 4s	43 13	10	Red tower; 26.	
5400 <i>M 6333</i>	Syonan Ko, breakwater.	35° 18.0' N 139° 30.0' E	Iso.G. period 4s	62 19	12	White round iron tower; 60.	
5402 <i>M 6334</i>	-Kamakura, breakwater.	35° 18.1' N 139° 29.6' E	Iso.R. period 6s	28 9	7	Red tower; 19.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-SOUTH COAST							
5404 <i>M 6332</i>	Eno Shima.	35° 18.0' N 139° 28.7' E	Fl.W. period 10s	351 107	23	White triangular iron framework tower; 197.	
5406 <i>M 6329</i>	Hiratuka Oki.	35° 18.1' N 139° 20.9' E	Mo.(U)W. period 8s	66 20	7		
5412 <i>M 6328</i>	Oiso Ko, breakwater, head.	35° 18.0' N 139° 19.0' E	F.Fl.G. period 6s	46 14	F. 7 Fl 12	White round concrete structure; 33.	
5420 <i>M 6326</i>	Odawara Ko, S. breakwater.	35° 14.0' N 139° 09.0' E	Iso.G. period 4s	59 18	12	White tower; 39.	
5424 <i>M 6323</i>	Manazuru Ko, N. breakwater, head.	35° 08.9' N 139° 09.0' E	Fl.R. period 4s	46 14	12	Red round concrete structure; 33.	
5428 <i>M 6318</i>	Fukuura Ko, E. breakwater.	35° 09.0' N 139° 09.0' E	Iso.R. period 6s	40 12	11	Red round concrete tower; 28.	
5432 <i>M 6314</i>	Atami, breakwater, head.	35° 05.5' N 139° 05.1' E	F.Fl.(2)G. period 7s	49 15	F. 6 Fl 12	White round concrete structure; 36.	
5436 <i>M 6310</i>	Ajiro.	35° 03.0' N 139° 06.0' E	Iso.W. period 6s	141 43	17	White quadrangular concrete tower; 31.	
5440 <i>M 6311</i>	-Breakwater, head.	35° 03.0' N 139° 06.0' E	F.Fl.G. period 3s	42 13	F. 5 Fl 12	White round tower on quadrangular base; 30.	
5444 <i>M 6309</i>	Hatsu Shima.	35° 02.0' N 139° 11.0' E	Al.Fl.R.G. period 20s	207 63	21	White round concrete tower; 49.	
5448 <i>M 6308</i>	Usami Wan, breakwater.	35° 00.2' N 139° 05.6' E	F.Fl.R. period 6s	36 11	F. 6 Fl 11	Red cylindrical concrete tower; 31.	
5452 <i>M 6306</i>	Ito Ko, E. Breakwater.	34° 58.3' N 139° 06.4' E	Iso.G. period 4s	39 12	11	White round concrete tower; 33.	
5456 <i>M 6307.5</i>	-Outer breakwater.	34° 58.0' N 139° 07.0' E	Fl.G. period 3s	36 11	11	White round concrete structure.	
5464 <i>M 6304</i>	Kawana Zaki.	34° 57.0' N 139° 09.0' E	Iso.W. period 4s	177 54	19	White tripod concrete tower; 43.	
5466 <i>M 6303.5</i>	Huto Ko, SE.	34° 53.6' N 139° 08.2' E	Iso.G. period 4s	33 10	6	White concrete structure; 19.	
5468 <i>M 6303</i>	Kadowaki Saki.	34° 53.2' N 139° 08.6' E	Fl.W. period 10s	144 44	18	White hexagonal concrete tower; 59.	
5472 <i>M 6302.4</i>	Yahatano Ko, breakwater.	34° 52.0' N 139° 06.0' E	Fl.G. period 3s	36 11	11	White round concrete structure; 31.	
O SHIMA:							
5476 <i>M 6282</i>	-Izu Oshima.	34° 47.8' N 139° 22.3' E	Fl.(3)W. period 30s 3 fl. 12s, ec. 18s	338 103	25	White tower; 52.	Visible 016° -291°.
-RAMARK							
5480 <i>M 6284</i>	-Okada Ko, breakwater, head.	34° 47.3' N 139° 23.5' E	Fl.(2)G. period 8s 2 fl. 3s, ec. 5s	46 14	12	White round concrete tower; 32.	
5484 <i>M 6281</i>	-Habu Ko, on Myojin Bana.	34° 40.9' N 139° 26.6' E	F.W.	36 11		White round concrete tower; 15.	
5486 <i>M 6281.7</i>	-Outer breakwater.	34° 40.7' N 139° 26.7' E	Fl.G. period 4s	43 13	8	White round tower; 24.	
5488 <i>M 6280</i>	-Ryuo Saki.	34° 41.1' N 139° 26.6' E	Fl.W. period 12s	220 67	21	White tower; 46.	Visible 190° -085°.
5492 <i>M 6281.1</i>	--Range, front, W. side of harbor.	34° 41.2' N 139° 26.1' E	F.R.	52 16	9	White round concrete tower; 46.	
5496 <i>M 6281.2</i>	--Rear, 100 meters 307° 30' from front.	34° 41.0' N 139° 26.4' E	F.R.	66 20	9	White round concrete tower; 54.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-SOUTH COAST							
5500 <i>M 6286</i>	-Motomati Ko, jetty, head.	34° 44.9' N 139° 21.1' E	Iso.G. period 4s	46 14	12	White tower; 38.	
5504 <i>M 6300</i>	Inatori Misaki.	34° 45.7' N 139° 02.9' E	Fl.(4)W. period 30s	236 72	22	White square concrete structure; 62.	Visible 207° -029° .
5512 <i>M 6300.4</i>	-E. breakwater.	34° 46.4' N 139° 02.8' E	Fl.(2)G. period 7s	56 17	9	White round concrete structure; 33.	
5516 <i>M 6302</i>	-S. breakwater, head.	34° 46.4' N 139° 02.6' E	Fl.G. period 3s	31 9	4	White concrete column; 20.	
5520 <i>M 6300.6</i>	-Inatori Ko.	34° 46.4' N 139° 02.7' E	Fl.R. period 3s	46 14	5	Red round concrete structure; 36.	
5522 <i>M 6297</i>	Harada.	34° 42.4' N 138° 58.8' E	Fl.G. period 4s	30 9	3	White tower; 16.	
5524 <i>M 6296</i>	Tsumeki Saki.	34° 39.5' N 138° 59.2' E	Fl.W. period 4s	125 38	13	White round concrete structure; 56.	Visible 180° -062° .
5528 <i>M 6295</i>	Suzaki Ko, detached breakwater.	34° 39.3' N 138° 58.1' E	Oc.R. period 5s lt. 4s, ec. 1s	33 10	4	Red round concrete tower; 30.	
5532 <i>M 6294</i>	Yebisu Shima.	34° 39.1' N 138° 57.9' E	Dir.F.W.R.G.	105 32	W. 14 R. 10 G. 11	White round concrete tower; 43.	R. 049° 30' -053° 30' , W.- 055° 24' , G.-059° 24' .
5536 <i>M 6292</i>	Susari Saki.	34° 39.2' N 138° 57.4' E	Iso.W.R. period 6s	49 15	12	White round concrete structure; 27.	R. 279° -325° , W.-182° .
5540 <i>M 6293.3</i>	-E. breakwater, head.	34° 40.0' N 138° 58.0' E	Fl.R. period 3s	33 10	9	Red round concrete structure; 28.	
5544 <i>M 6293</i>	-W. breakwater.	34° 40.1' N 138° 57.3' E	Fl.G. period 3s	32 10	6	White tower; 29.	
5546 <i>M 6291</i>	Tozi, S. breakwater.	34° 38.2' N 138° 54.9' E	Fl.G. period 3s	33 10	3	White tower; 17.	
5548 <i>M 6290</i>	Mikomoto Jima.	34° 34.3' N 138° 56.7' E	Fl.(2)W. period 16s 2 fl. 4s, ec. 12s	167 51	19	White round stone tower, black bands; 75.	Storm signals.
	RACON		(- - - - -)				
5552 <i>M 6273.5</i>	To Shima.	34° 32.0' N 139° 17.0' E	Fl.W. period 6s	217 66	21	White round concrete tower; 43.	Visible 070° -270° .
5556 <i>M 6272</i>	Nii Shima.	34° 19.9' N 139° 16.4' E	Fl.W. period 8s	331 101	25	White round concrete tower; 43.	Visible 205° -097° .
5558 <i>M 6272.5</i>	-Breakwater.	34° 22.0' N 139° 14.7' E	Fl.R. period 3s	43 13	9	Red tower; 36.	
5560 <i>M 6273</i>	Shikine Shima.	34° 19.0' N 139° 13.4' E	Fl.W. period 3s	40 12	11	White round concrete tower; 36.	
5562 <i>M 6272.8</i>	-N. side of island.	34° 19.9' N 139° 13.2' E	Iso.R. period 4s	46 14	12	Red tower.	
5564 <i>M 6274</i>	Kozushima.	34° 11.0' N 139° 08.0' E	Fl.W.R. period 12s	397 121	27	White cylindrical tower; 49.	W. 290° -077° , R.-090° , W.- 189° .
5566 <i>M 6274.8</i>	-Izu Miura Ko, breakwater.	34° 12.0' N 139° 09.5' E	Fl.G. period 3s	66 20	5	White tower; 18.	
5568 <i>M 6274.4</i>	-W. side.	34° 12.0' N 139° 08.0' E	F.Fl.R. period 5s	36 11	F. 6 Fl. 11	Red round concrete structure; 31.	
5572 <i>M 6270</i>	Iro Saki.	34° 36.0' N 138° 50.9' E	Al.Fl.W.R. period 16s	197 60	20	White cylindrical concrete tower; 36.	Visible 241° -098° , partially obscured 095° -098° .
5576 <i>M 6270.4</i>	-	34° 36.2' N 138° 50.7' E	Dir.F.W.R.G.	210 64	W. 17 R. 13 G. 13	White tower; 25.	W.-248° 32' , 1° 08' arc. R. 4° on right of W. arc. G. 4° on left of W. arc.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-SOUTH COAST							
5580 M 6269.6	Mera, breakwater.	34° 39.8' N 138° 46.9' E	Fl.(2)R. period 6s	56 17	7	Red tower; 36.	
5584 M 6269.5	Hagati Saki.	34° 41.4' N 138° 44.5' E	Fl.W. period 5s	381 116	19	White round iron structure; 46.	Visible 346° -177° .
5588 M 6269.3	Matsuzaki Ko, breakwater.	34° 45.3' N 138° 46.3' E	Iso.R. period 4s	39 12	11	Red framework tower.	
5592 M 6269.27	-SE. of Nishina.	34° 46.4' N 138° 46.0' E	Fl.R. period 3s	39 12	6	Red round concrete structure; 31.	
5596 M 6269.24	Nishina.	34° 46.0' N 138° 46.0' E	Fl.(2)W. period 8s	200 61	20	White round concrete structure; 31.	
5600 M 6269.2	Tago Shima.	34° 48.4' N 138° 44.9' E	Fl.W. period 3s	102 31	12	White tower; 30.	
5602 M 6269.22	-Breakwater, head.	34° 48.1' N 138° 45.8' E	Fl.G. period 3s	33 10	11	White round concrete tower; 28.	
5604 M 6269	Arari Ko.	34° 49.7' N 138° 45.9' E	Iso.W. period 6s	43 13	8	White round concrete tower; 36.	
5608 M 6268.9	Ugusu Ko, W. breakwater, head.	34° 51.0' N 138° 46.0' E	F.Fl.R. period 4s	39 12	F 8 Fl 11		
5612 M 6268.8	Toi Ko, breakwater.	34° 54.6' N 138° 47.3' E	Fl.R. period 4s	36 11	11	Red round concrete structure; 29.	
5616 M 6268.2	Heda Ko, about 1,360 meters 227° from Sototakumi Yama summit.	34° 58.0' N 138° 46.0' E	Iso.W. period 6s	56 17	13	White round concrete tower; 39.	
5620 M 6268.4	-Breakwater.	34° 58.2' N 138° 46.6' E	Iso.G. period 6s	33 10	6	White tower; 28.	
5624 M 6264	Tagonoura Ko, E. breakwater.	35° 08.0' N 138° 42.0' E	Iso.R. period 6s	53 16	13	Red round concrete structure; 43.	
5628 M 6264.2	-W. breakwater.	35° 07.9' N 138° 42.1' E	Iso.G. period 6s	53 16	12	White round concrete tower; 53.	
5632 M 6265	-Range, front.	35° 08.7' N 138° 41.4' E	F.G.	66 20	10	White round concrete tower; 56.	
5636 M 6265.1	-Rear, 215 meters 323° 30' from front.	35° 08.8' N 138° 41.3' E	F.G.	89 27	10	White round concrete tower; 75.	
5640 M 6266	Numazu Ko, training wall.	35° 04.7' N 138° 51.1' E	Fl.(2)R. period 6s	30 9	5	Red tower; 18.	
5644 M 6266.4	-W. breakwater, head.	35° 04.8' N 138° 51.1' E	Iso.G. period 4s	46 14	5	White round concrete structure; 31.	
5646	Uri-shima, breakwater.	35° 03.5' N 138° 52.7' E	Fl.R. period 4s	26 8	6		
5648 M 6267.5	Shizuura Ko, Okino-Shima.	35° 02.9' N 138° 53.8' E	Fl.W. period 3s	32 10	3	White round concrete structure; 28.	
5652 M 6267.4	Shizuura Ko Kuchino.	35° 02.4' N 138° 54.0' E	Fl.R. period 3s	23 7	7	STARBOARD (B) R, beacon, topmark; 19.	
5656 M 6267.6	Awa Sima.	35° 02.0' N 138° 53.4' E	Fl.(2)W. period 7s	33 10	11	White round concrete structure on quadrangular concrete base; 27.	
5660 M 6267.64	Nishiura Kisho, breakwater, head.	35° 01.7' N 138° 52.7' E	Iso.R. period 4s	36 11	4	Red round concrete structure; 30.	
5662 M 6267.68	Mito Hakuti, breakwater.	35° 01.5' N 138° 53.7' E	Fl.G. period 3s	26 8	5	White tower; 18.	
5663 M 6267.69	-S. breakwater.	35° 01.3' N 138° 54.0' E	Fl.R. period 3s	22 7	6	Red concrete structure; 19.	
5664 M 6267.7	Izu Ose Saki.	35° 01.6' N 138° 47.4' E	Fl.(3)W. period 13s	52 16	13	White round concrete tower; 43.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-SOUTH COAST							
5668 <i>M 6263</i>	Yui Ko, W. breakwater.	35° 06.0' N 138° 34.0' E	F.Fl.G. period 6s	43 13	F. 5 Fl 12	White cylindrical concrete tower on quadrangular base; 28.	
5676 <i>M 6253</i>	-Tonen Sea Berth.	35° 01.4' N 138° 29.9' E	Mo.(U)W. period 14s	98 30	10		Private aid.
5680 <i>M 6253.2</i>	--Auxiliary, about 250 meters N.	35° 01.6' N 138° 30.0' E	Mo.(U)W. period 14s	28 8	6		Private aid.
5684 <i>M 6253.4</i>	--Auxiliary, about 240 meters S.	35° 01.3' N 138° 29.9' E	Mo.(U)W. period 14s	28 9	6		Private aid.
5688 <i>M 6255</i>	-Eziri Basin, N. breakwater.	35° 01.0' N 138° 29.8' E	Fl.R. period 3s	30 9	6	Red tower; 18.	
5692 <i>M 6249.4</i>	-Outer Breakwater, S. Light.	35° 01.5' N 138° 31.3' E	Fl.(3)R. period 13s	59 18	13	Red tower; 52.	
5696 <i>M 6249.5</i>	--N. light.	35° 02.3' N 138° 31.4' E	Iso.G. period 8s	20 6	3	White tower; 11.	
5700 <i>M 6249</i>	-Ma Saki.	35° 01.2' N 138° 31.0' E	Iso.W. period 6s	36 11	5	White tower; 33.	
SHIMIZU KO:							
5704 <i>M 6248.4</i>	-Miho, breakwater, NE. head.	35° 01.2' N 138° 31.7' E	Fl.(3)G. period 13s	59 18	11	White tower; 56.	
5708 <i>M 6248</i>	-Miho Saki.	35° 00.4' N 138° 32.0' E	Fl.(2)W. period 20s 2 fl. 5s, ec. 15s	69 21	14	White octagonal concrete tower; 62.	Visible 175° -017°.
5710	--Detached breakwater, elbow.	35° 00.9' N 138° 30.8' E	Fl.Y. period 4s	14 4	6		
5716 <i>M 6262</i>	-Range, front.	34° 59.5' N 138° 30.1' E	F.G.	75 23	14	White iron tripod; 72.	
5720 <i>M 6262.1</i>	--Rear, 90 meters 181° 24' from front.	34° 59.6' N 138° 29.9' E	F.G.	95 29	14	White iron tripod; 88.	
5724 <i>M 6244</i>	Mochimune, W. breakwater.	34° 55.0' N 138° 22.0' E	Fl.G. period 3s	43 13	12	White round concrete structure; 33.	
5726 <i>M 6244.5</i>	-E. breakwater.	34° 55.0' N 138° 22.5' E	Fl.R. period 3s	39 12	6	Red tower; 18.	
5732 <i>M 6241</i>	-N. breakwater.	34° 52.1' N 138° 19.7' E	Fl.R. period 4s	43 13	4	Red tower; 33.	
5736 <i>M 6239.4</i>	-N. outer breakwater.	34° 51.9' N 138° 20.2' E	Fl.(2)R. period 7s	39 12	11	Red round concrete tower; 32.	
5740 <i>M 6239.5</i>	-E. breakwater.	34° 52.0' N 138° 20.0' E	F.Fl.G. period 4s	59 18	F. 8 Fl 13	White round concrete structure; 46.	
5744 <i>M 6239</i>	-Kogawa, S. breakwater, head.	34° 51.2' N 138° 19.9' E	Iso.G. period 4s	57 17	5	White concrete structure; 39.	
5746 <i>M 6238</i>	--Inner breakwater.	34° 50.9' N 138° 20.0' E	Fl.R. period 3s	22 7	5	Red tower; 11.	
5748 <i>M 6237</i>	Sizuhama, AVIATION LIGHT.	34° 48.7' N 138° 17.6' E	Al.Fl.W.G. period 10s	114 35		Iron framework structure; 85.	
5752 <i>M 6236</i>	Oigawa Ko, S. breakwater.	34° 46.7' N 138° 18.3' E	Fl.G. period 3s	46 14	7	White concrete structure; 29.	
5753 <i>M 6236.3</i>	-N.	34° 46.5' N 138° 18.1' E	Fl.R. period 4s	19 6	5	Red tower; 10.	
5754 <i>M 6236.2</i>	-S.	34° 46.4' N 138° 18.1' E	Fl.G. period 4s	19 6	5	White tower; 7.	
5756 <i>M 6235.5</i>	Yosida Gyoko, breakwater, head.	34° 45.0' N 138° 16.1' E	Fl.R. period 3s	49 15	7	Red concrete structure; 32.	

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JAPAN-HONSHU-SOUTH COAST							
5760 <i>M 6235</i>	Sagara Ko, breakwater.	34° 41.0' N 138° 13.0' E	F.FI.(2)G. period 10s	49 15	F 5 FI 12	White round concrete structure; 33.	
5762 <i>M 6235.1</i>	-N. breakwater, head.	34° 42.2' N 138° 13.0' E	FI.G. period 3s	33 10	5	White tower; 22.	
5764 <i>M 6234.8</i>	Ondo, E. breakwater, head.	34° 37.8' N 138° 12.4' E	FI.G. period 3s	26 8	5		
5766 <i>M 6234.73</i>	--W. breakwater, head.	34° 38.1' N 138° 14.0' E	FI.(2)G. period 6s	23 7	3	White round tower; 14.	
5768 <i>M 6234.7</i>	-W. Outer breakwater, E. head.	34° 37.7' N 138° 13.9' E	FI.(2)R. period 6s	43 13	9	Red tower; 34.	
5769 <i>M 6234.6</i>	--W. head.	34° 38.1' N 138° 13.2' E	FI.G. period 5s	16 5	3	White tower; 8.	
5770 <i>M 6234.5</i>	-W. middle breakwater, head.	34° 37.2' N 138° 13.6' E	FI.R. period 4s	42 13	12	Red round concrete structure; 32.	
5772 <i>M 6234</i>	-E. middle breakwater, head.	34° 37.0' N 138° 14.0' E	FI.W. period 4s	42 13	12	White round concrete structure, quadrangular concrete base; 24.	
5774 <i>M 6233</i>	-E. Inner breakwater, head.	34° 36.9' N 138° 13.3' E	Iso.G. period 4s	40 12	4	White tower; 33.	
5778 <i>M 6228</i>	Omaezaki.	34° 35.8' N 138° 13.5' E	FI.W. period 10s	177 54	19	White round brick tower; 72.	Visible 221° -104° .
RAMARK							
5780 <i>M 6230</i>	Gozen Iwa.	34° 35.8' N 138° 15.6' E	FI.(2)W. period 8s	59 18	11	White cylindrical concrete tower; 36.	
5784 <i>M 6226</i>	Water tower intake, No. 1.	34° 36.7' N 138° 08.6' E	FI.(2)W. period 5s	33 10	11	ISOLATED DANGER BRB, tower, topmark; 28.	Intakes 2, 3 and 4 each marked by beacon BRB, FI.(2)W. 5s 12m 11M.
5790 <i>M 6225</i>	Hukude, breakwater, head.	34° 39.6' N 137° 54.4' E	FI.G. period 5s	36 11	5	White tower; 13.	
5792 <i>M 6224</i>	Tenryu Kawa, E. side.	34° 38.8' N 137° 48.9' E	Iso.W. period 6s	59 18	13	White round tower, upper half iron, lower half concrete; 52.	Visible 270° -100° .
5796 <i>M 6223</i>	-W. side.	34° 38.7' N 137° 46.8' E	FI.W. period 4s	43 13	12	White round tower; 28.	
5800 <i>M 6219</i>	Maisaka.	34° 40.7' N 137° 36.8' E	FI.(2)W. period 20s 2 fl. 7s, ec. 13s	122 37	17	White round concrete tower; 92.	Visible 270° -80° .
5804 <i>M 6221</i>	Hamana Ko, training wall.	34° 40.8' N 137° 35.9' E	FI.W. period 3s	32 10	3	White quadrangular tower; 24.	
5808 <i>M 6221.2</i>	-Head.	34° 40.2' N 137° 36.0' E	FI.(2)R. period 7s	43 13	9	Red round concrete structure; 33.	
5810 <i>M 6218.5</i>	Ababane Ko.	34° 36.0' N 137° 11.4' E	FI.(2)R. period 6s	43 13	6	Red concrete structure; 31.	
5812 <i>M 6052</i>	Irago Misaki.	34° 34.5' N 137° 01.2' E	Iso.W. period 6s	53 16	12	White round concrete structure; 49.	Visible 285° -147° . Irago Suido Traffic Route Control Signal Station.
5816 <i>M 6053</i>	-Breakwater.	34° 35.1' N 137° 01.4' E	Iso. R. period 6s	39 12	11	Red round concrete tower; 36.	
5820 <i>M 6053.4</i>	-Groin, 900 meters NNE. of point.	34° 35.2' N 137° 01.3' E	Iso.G. period 6s	39 12	4	White round concrete structure; 31.	
5822 <i>M 6051.5</i>	Segyo Se.	34° 30.6' N 137° 01.1' E	Q.(3)W. period 10s	49 15	6	E. CARDINAL BYB, beacon, topmark; 49.	
5823	<i>Isewan.</i>	34° 31.0' N 137° 03.6' E	Iso.W. period 4s			SAFE WATER RW, buoy, topmark.	
RACON					5		
G(- - •)							

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-SOUTH COAST							
5824 <i>M 6051</i>	Kami Jima, NE. end of island.	34° 33.0' N 136° 59.0' E	Fl.(3)W. period 30s 3 fl. 12s, ec. 18s	374 114	26	White round concrete tower; 36.	Visible 140° -341° . Signal station.
			F.W.			Same tower.	Shows over Kozukam Sho and Shimosa Sho.
5832 <i>M 6051.3</i>	-NW. side of island, breakwater, head.	34° 33.0' N 136° 58.6' E	Iso.G. period 4s	39 12	11	White round concrete tower; 28.	
5836 <i>M 6055.5</i>	Tatsuma Saki.	34° 39.4' N 137° 04.4' E	Oc.(3)W. period 13s	46 14	13	White round concrete tower; 36.	
ATSUMI WAN:							
5844 <i>M 6217</i>	-Fukue Ko Ko-Nakayama, S. breakwater.	34° 38.7' N 137° 05.7' E	Fl.G. period 4s	31 9	5	White round concrete structure; 22.	
5848 <i>M 6217.4</i>	-Fukue Ko Mukaiyama, N. breakwater.	34° 38.3' N 137° 06.2' E	Fl.R. period 3s	29 9	3	Red round concrete tower; 18.	
5852 <i>M 6216</i>	-Izumi Ko, W. breakwater, head.	34° 39.2' N 137° 09.6' E	Iso.R. period 6s	29 9	7	Red round concrete tower; 19.	
5856 <i>M 6216.4</i>	--E. breakwater, head.	34° 39.2' N 137° 09.6' E	Iso.G. period 6s	26 8	6	White tower; 19.	
5858 <i>M 6207</i>	-Mikawa Ko, breakwater.	34° 48.0' N 137° 16.2' E	Fl.G. period 3s	33 10	5	White tower; 22.	
5860 <i>M 6206</i>	-Miya Ko, S. breakwater, head.	34° 48.3' N 137° 15.0' E	Iso.G. period 6s	30 9	6	White round concrete structure; 22.	
5864 <i>M 6204</i>	--S. breakwater, W. head.	34° 48.5' N 137° 14.8' E	Iso.R. period 6s	30 9	10	Red round concrete tower; 26.	
5866 <i>M 6201.8</i>	Gamagori Ko.	34° 48.2' N 137° 15.2' E	Fl.R. period 3s	28 9	6	Red tower; 19.	
5868 <i>M 6202</i>	--E. breakwater.	34° 48.9' N 137° 13.5' E	Iso.R. period 4s	39 12	8	Red round concrete structure; 29.	
5870 <i>M 6201.5</i>	-Gamagori Ko.	34° 46.0' N 137° 14.6' E	Fl.Y. period 4s	13 4	7	SPECIAL Y, beacon, topmark.	
5872 <i>M 6210</i>	-Tahara Ko, breakwater, head.	34° 41.3' N 137° 14.5' E	F.Fl.R. period 3s	42 13	F. 6 Fl 12	Red round concrete structure; 32.	
5873 <i>M 6209.5</i>	--Hime Sima, breakwater.	34° 42.9' N 137° 15.2' E	Fl.(3)R. period 12s	46 14	5	Red tower; 32.	
5874 <i>M 6208</i>	Toyohashi Ko, SW. end of detached breakwater.	34° 44.3' N 137° 16.2' E	Fl.G. period 5s	56 17	5	White tower; 52.	
5875 <i>M 6208.7</i>	Toyohashi Ko, jetty.	34° 43.4' N 137° 19.7' E	Fl.R. period 3s	26 8	6	Red tower; 19.	
5880 <i>M 6200</i>	-Katanohara Ko.	34° 47.0' N 137° 11.7' E	Fl.R. period 3s	39 12	9	White round concrete tower; 22.	
5884 <i>M 6199</i>	Mikawa Nisiura.	34° 47.3' N 137° 11.5' E	Fl.G. period 3s	39 12	3	White round concrete tower; 28.	
5888 <i>M 6198</i>	-Hasida Hana.	34° 45.7' N 137° 10.4' E	Al.Fl.W.R. period 20s	118 36	17	White round tower; 46.	Visible 266° -162° .
MIKAWA WAN:							
5896 <i>M 6197.6</i>	-Kuramai Ko, breakwater, head.	34° 46.4' N 137° 10.3' E	Fl.G. period 3s	40 12	3	White round concrete tower; 28.	
5900 <i>M 6197</i>	-Tigaro Ko, breakwater.	34° 46.7' N 137° 10.6' E	Fl.G. period 5s	31 9	5	White tower; 22.	
5904 <i>M 6197.2</i>	-Hara Ya.	34° 46.6' N 137° 10.5' E	Fl.R. period 3s	30 9	6	Red concrete structure; 27.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-SOUTH COAST							
5908 <i>M 6196.6</i>	-Higashi Hazu Ko Susaki, S. breakwater.	34° 47.1' N 137° 09.8' E	Oc.(2)G. period 6s	39 12	4	White round concrete structure; 31.	
5912 <i>M 6196.7</i>	--S. Outer breakwater.	34° 46.8' N 137° 10.0' E	Iso.G. period 4s	36 11	11	White quadrangular iron framework structure; 29.	
5916 <i>M 6196.4</i>	-Higashi-Hazu Ko Nakashiba, S. breakwater.	34° 47.0' N 137° 09.0' E	F.Fl.(2)R. period 10s 2 fl. 3s, ec. 7s	43 13	F. 6 Fl 12	Red round tower, quadrangular base; 28.	
5920 <i>M 6195.6</i>	Kenasi Shima.	34° 46.2' N 137° 08.5' E	Fl.R. period 3s	43 13	7	Red round concrete structure; 32.	
5924 <i>M 6196.5</i>	-Hazu Ko, breakwater.	34° 47.1' N 137° 08.2' E	Fl.(3)R. period 12s	39 12	3	Red tower; 30.	
5926 <i>M 6196.54</i>	--Breakwater, E. head.	34° 46.9' N 137° 08.8' E	Fl.(2)G. period 6s	33 10	5	White tower; 22.	
5928 <i>M 6196</i>	--Kuwahata, S. breakwater.	34° 47.2' N 137° 08.2' E	Oc.G. period 4s	36 11	5	White tower; 22.	
5932 <i>M 6195.4</i>	-Terabe, S. breakwater.	34° 47.1' N 137° 07.2' E	Iso.R. period 8s	39 12	4	Red tower; 31.	
5936 <i>M 6195</i>	-Nishi Hazu, S. breakwater.	34° 47.2' N 137° 07.1' E	F.Fl.R. period 6s	39 12	F. 6 Fl 11	Red round tower; 28.	
5940 <i>M 6194.7</i>	--Toba, N. breakwater.	34° 46.8' N 137° 06.6' E	F.Fl.R. period 3s	43 13	F. 6 Fl 12	Round red concrete tower; 30.	
5944 <i>M 6194.2</i>	--W. breakwater.	34° 46.3' N 137° 05.7' E	Fl.G. period 3s	43 13	8	White tower; 34.	
5948 <i>M 6194.4</i>	Naka Shima.	34° 46.2' N 137° 05.8' E	Mo.(D)R. period 8s	33 10	6	STARBOARD (B) R, beacon, topmark; 30.	
5952 <i>M 6194.5</i>	Akunami.	34° 46.6' N 137° 06.2' E	Fl.(2)W. period 5s	32 10	9	ISOLATED DANGER BRB, beacon, topmark.	
5960 <i>M 6193</i>	-Yosida Ko.	34° 46.8' N 137° 04.6' E	Fl.(2)R. period 6s	20 6	7	STARBOARD (B) R, beacon, topmark; 25.	
5962 <i>M 6192.3</i>	-W. breakwater.	34° 46.7' N 137° 04.1' E	Fl.R. period 3s	29 9	6	Red concrete structure; 19.	
CHITA WAN:							
5964 <i>M 6180</i>	-Issiki Ko, W. breakwater, head.	34° 47.3' N 137° 00.8' E	Fl.G. period 3s	43 13	7	White tower; 32.	
5968 <i>M 6178</i>	-Sako, NW. of Ishiki Villiage.	34° 49.0' N 137° 00.0' E	Iso.R. period 6s	49 15	12	Red round concrete tower; 43.	
5972 <i>M 6163.4</i>	-Kinuura Ko, E. breakwater, W. head.	34° 49.1' N 136° 56.6' E	Fl.(2)R. period 6s	66 20	5	Red round metal tower; 66.	
5980 <i>M 6164</i>	-Kinuura Ko, middle wharf.	34° 52.0' N 136° 58.0' E	Fl.G. period 4s	31 9	8	White round concrete structure; 28.	
5984 <i>M 6163</i>	--Taketoyo.	34° 50.6' N 136° 56.0' E	Iso.G. period 6s	39 12	11	White hexagonal concrete tower; 32.	
5988 <i>M 6163.6</i>	--W. breakwater.	34° 49.3' N 136° 56.3' E	Fl.(2)G. period 6s	66 20	8	White tower; 66.	
5992 <i>M 6164.4</i>	-Handa, breakwater.	34° 52.8' N 136° 56.6' E	Fl.R. period 3s	40 12	3	Red round concrete structure; 31.	
6000 <i>M 6162</i>	Kowa Ko, S. breakwater.	34° 46.7' N 136° 55.0' E	F.Fl.R. period 5s	33 10	F. 6 Fl 11	Red tower; 28.	
6004 <i>M 6162.3</i>	-Outer breakwater.	34° 46.6' N 136° 55.1' E	Fl.G. period 5s	39 12	3	White tower; 31.	
6006 <i>M 6161.9</i>	-Breakwater, head.	34° 45.8' N 136° 55.6' E	Fl.(2)G. period 6s	33 10	5	White round concrete tower; 19.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-SOUTH COAST							
6008 <i>M 6161.5</i>	Namiga Saki, Saku Shima, W. point.	34° 44.0' N 137° 02.0' E	Iso.W. period 6s	36 11	11	White round concrete tower; 33.	
6012 <i>M 6160</i>	Kadoishi, Chita Wan, S. entrance.	34° 42.1' N 136° 59.4' E	Q.(9)W. period 15s	43 13	12	W. CARDINAL YBY, beacon, topmark; 39.	
	RACON		OE(- - - •)		5		
6016 <i>M 6159.4</i>	Morozaki Ko, N. Breakwater.	34° 42.4' N 136° 58.4' E	Fl.R. period 4s	30 9	6	Red round concrete tower; 22.	
6018	-E. head.	34° 42.2' N 136° 58.6' E	Fl.G. period 4s	22 7	3	White tower; 16.	
6020 <i>M 6160.2</i>	Shimose Sho.	34° 42.0' N 136° 59.5' E	Mo.(A)R. period 8s	33 10	5	STARBOARD (B) R, beacon, topmark.	
6024 <i>M 6159.5</i>	Okiro Shima.	34° 42.0' N 136° 58.6' E	Mo.(A)G. period 8s	30 9	3	PORT (B) G, beacon, topmark.	
6028 <i>M 6159.3</i>	Morosaki Ko, S. breakwater, head.	34° 41.9' N 136° 58.5' E	Iso.G. period 4s	39 12	8	White square concrete tower; 26.	
6032 <i>M 6159.2</i>	-Outer breakwater, E. head.	34° 42.1' N 136° 58.7' E	Fl.(2)G. period 6s	43 13	5	White round concrete tower; 31.	
6036 <i>M 6159</i>	Ha Shima.	34° 41.4' N 136° 58.6' E	Q.(6)+L.Fl.W. period 15s	36 11	11	S. CARDINAL YB, beacon, topmark.	
6040 <i>M 6161.8</i>	Saku Shima, E. Light.	34° 43.0' N 137° 03.0' E	Q.(6)+L.Fl.W. period 15s	33 10	11	S. CARDINAL YB, beacon, topmark.	
6044 <i>M 6161.6</i>	Saku Shima, Tainoura.	34° 42.7' N 137° 02.9' E	Mo.(C)G. period 13s	31 9	11	PORT (B) G, beacon, topmark; 28.	
6048 <i>M 6161.7</i>	-Breakwater, head.	34° 43.0' N 137° 03.1' E	Oc.G. period 8s	30 9	6	White tower; 28.	
6050 <i>M 6160.5</i>	-Breakwater.	34° 42.3' N 137° 00.1' E	Fl.G. period 3s	25 8	5	White tower; 18.	
6054 <i>K 6160.4</i>	Himaka Sima.	34° 42.0' N 137° 00.0' E	Fl.(2)R. period 6s	33 10	6	Red tower; 22.	
6055 <i>M 6160.3</i>	Himaka Sa, SE. breakwater.	34° 42.1' N 137° 00.6' E	Fl.R. period 4s	33 10	6	Red tower; 22.	
6056 <i>M 6160.6</i>	Owari-O-Iso, on reef, about 3.95 km. 019° from Shino Shima.	34° 42.6' N 137° 01.4' E	Q.W.	32 10	9	N. CARDINAL BY, beacon, topmark.	
6060 <i>M 6057.5</i>	Sinosima Ko.	34° 40.9' N 137° 00.4' E	Fl.R. period 3s	39 12	9	Red round concrete tower; 30.	
6064 <i>M 6056</i>	Sinosima ko, breakwater, S. head.	34° 40.5' N 137° 00.1' E	Fl.G. period 3s	36 11	8	White tower; 29.	
6072 <i>M 6055</i>	Owari No Sima.	34° 39.3' N 137° 00.7' E	Fl.(2)W. period 7s	197 60	20	White round concrete tower; 32.	Reserve light Fl.(3)W. 9s 14M.
6074	Nakayama suido, No. 1.	34° 37.7' N 136° 58.7' E	Fl.(2)G. period 6s		5	PORT (B) G, beacon, topmark.	
6076 <i>M 6161</i>	Oi Ko, entrance, N. side.	34° 43.4' N 136° 58.3' E	Q.(3)W. period 10s	30 9	10	E. CARDINAL BYB, beacon, topmark; 26.	
6080 <i>M 6161.3</i>	Tokugo, Morosaki Suido.	34° 43.2' N 136° 57.9' E	Fl.R. period 3s	30 9	7	Red square concrete tower; 19.	F.W. spotlight illuminates works 30m SSE.
6084 <i>M 6161.4</i>	-No. 2 breakwater.	34° 43.1' N 136° 58.1' E	Fl.G. period 3s	43 13	11	White round metal structure; 28.	
6088 <i>M 6158.2</i>	Toyohama Ko, W. breakwater, E. head.	34° 42.2' N 136° 56.2' E	Iso.G. period 6s	33 10	4	White round concrete structure; 28.	
6092 <i>M 6158.5</i>	-S. breakwater.	34° 42.2' N 136° 56.2' E	Fl.(2)R. period 6s	33 10	7	Red tower; 25.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-SOUTH COAST							
6096 <i>M 6156</i>	Nakashu, W. breakwater.	34° 42.5' N 136° 55.1' E	Fl.G. period 5s	43 13	3	White tower; 32.	
6100 <i>M 6156.5</i>	-E. breakwater.	34° 42.5' N 136° 55.1' E	Fl.R. period 5s	46 14	7	Red tower; 28.	
6104 <i>M 6146</i>	Utsumi Ko, S. groin.	34° 44.0' N 136° 52.0' E	Fl.(2)R. period 8s	36 11	11	Red quadrangular framework tower; 31.	
6108 <i>M 6144</i>	Noma Saki, S. of point.	34° 45.0' N 136° 51.0' E	Iso.W. period 6s	66 20	13	White round concrete tower; 59.	Visible 326° -164° .
6110 <i>M 6141</i>	Kosugaya Ko, breakwater.	34° 49.5' N 136° 51.9' E	Fl.G. period 3s	26 8	5	White tower; 18.	
6110.9 <i>M 6138.6</i>	-Southwestwards.	34° 50.1' N 136° 48.7' E	Mo.(U)W. period 8s	30 9	4		
6112 <i>M 6139</i>	Kariya Ko, S. breakwater, head.	34° 51.0' N 136° 51.5' E	F.Fl.R. period 5s	43 13	F. 6 Fl 12	Red round concrete structure; 32.	
6116 <i>M 6138.5</i>	Tokoname Ko, breakwater.	34° 52.3' N 136° 49.8' E	Fl.(2)R. period 6s	39 12	5	Red tower; 28.	
6120 <i>M 6138</i>	-Inner breakwater.	34° 52.7' N 136° 50.2' E	Iso.R. period 4s	25 8	4	Red round concrete tower; 21.	
6124 <i>M 6137</i>	Oniga Saki Ko, N. breakwater, head.	34° 54.3' N 136° 49.2' E	Iso.G. period 8s	39 12	4	White tower; 27.	
6128 <i>M 6136</i>	Oniga-Saki Kamachi, N. breakwater.	34° 54.9' N 136° 49.3' E	Iso.G. period 4s	36 11	4	White round concrete tower; 28.	
6132 <i>M 6135</i>	Owari Ono, Yata Kawa mouth, N. side.	34° 55.8' N 136° 49.5' E	Oc.G. period 8s	29 9	6	White round concrete tower; 18.	
6136 <i>M 6133</i>	Ise Wan.	34° 56.0' N 136° 48.0' E	Fl.W. period 10s	82 25	15	White round metal structure, concrete piles; 66.	Signal station.
6140 <i>M 6095.6</i>	-Ise Wan.	34° 55.6' N 136° 44.4' E	Mo.(U)W. period 14s	125 38	17	Loading platform.	Radar reflector.
6140.21 <i>M 6095.62</i>	---250 meters N.	34° 55.7' N 136° 44.4' E	Mo.(U)W. period 8s		7		Horn: 1 bl. ev. 30s.
6140.22 <i>M 6095.63</i>	---120 meters N.	34° 55.7' N 136° 44.4' E	Mo.(U)W. period 8s		7		
6140.31 <i>M 6095.64</i>	---100 meters S.	34° 55.5' N 136° 44.4' E	Mo.(U)W. period 8s		7		
6140.32 <i>M 6095.65</i>	---250 meters S.	34° 55.5' N 136° 44.4' E	Mo.(U)W. period 8s		7		Horn: 1 bl. ev. 30s.
NAGOYA KO:							
6144 <i>M 6113</i>	-Middle tidal breakwater, E. head.	34° 59.7' N 136° 49.4' E	Iso.G. period 4s	66 20	13	White round metal tower; 66.	
6146 <i>M 6115</i>	-Breakwater, W. head.	35° 00.6' N 136° 48.1' E	F.Fl.(2)R. period 8s	49 15	F. 6 Fl 10	Red tower; 46.	
6150	--Meikonisi.	35° 02.9' N 136° 50.2' E	Iso.W. period 4s	138 42	8		Center span of bridge. Iso.R. 7M, Iso.G. 9M, F.R. 6M, F.G. 7M, Fl.Y. 6M mark bridge.
6152 <i>M 6111</i>	Kuwana Ko, Ibi Kawa, training wall, head.	35° 00.0' N 136° 43.2' E	Fl.W. period 3s	23 7	10	White tower; 27.	
6156 <i>M 6112</i>	-Training wall, head.	35° 01.5' N 136° 42.6' E	Fl.(2)W. period 6s	36 11	6	White quadrangular metal framework tower; 29.	
6160 <i>M 6110</i>	Tomisuhara Ko, S. breakwater.	35° 00.0' N 136° 40.1' E	Fl.(2)G. period 7s	20 6	9	White round concrete tower; 25.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-SOUTH COAST							
6161 <i>M 6110.1</i>	Kasumigaura Wharf, E. Range, front.	34° 59.2' N 136° 40.5' E	F.G.	79 24	14	White mast, white triangular daymark; 79.	
6161.1 <i>M 6110.12</i>	-Rear, 220 meters 266° 18' from front.	34° 59.1' N 136° 40.3' E	F.G.	102 31	16	White mast, white triangular daymark; 96.	
6162 <i>M 6110.15</i>	--NW. Range, front.	34° 59.5' N 136° 40.0' E	F.R.	85 26	7	White mast, white triangular daymark; 86.	
6162.1 <i>M 6110.16</i>	---Rear, 140 meters 293° from front.	34° 59.6' N 136° 39.9' E	F.R.	102 31	7	White mast, white triangular daymark; 96.	
YOKKAICHI KO:							
6164 <i>M 6097</i>	-Cosmo Sea Berth SBM.	34° 56.8' N 136° 42.8' E	Mo.(U)W. period 8s		10	Yellow.	Horn: 1 bl. ev. 30s (bl. 5s, si. 25s). Radar reflector.
6168 <i>M 6097.2</i>	-Syowayokaiti Sea Berth. SBM. No. 1.	34° 55.6' N 136° 42.4' E	Mo.(U)W. period 12s		10	Yellow.	Horn: 1 bl. ev. 30s (bl. 5s, si. 25s). Radar reflector.
6172 <i>M 6097.4</i>	--No. 2 SBM.	34° 55.8' N 136° 41.5' E	Mo.(U)W. period 12s		9	Yellow.	Horn: 1 bl. ev. 30s (bl. 5s, si. 25s). Radar reflector.
6176 <i>M 6098</i>	-S. breakwater, head.	34° 56.7' N 136° 39.8' E	Oc.(3)G. period 13s	66 20	11	White round metal structure; 66.	
6180 <i>M 6099</i>	-E. breakwater.	34° 57.0' N 136° 40.0' E	Iso.R. period 6s	49 15	12	Red round metal tower; 42.	
6184 <i>M 6097.6</i>	-E. breakwater, N. head.	35° 58.0' N 136° 40.0' E	Iso.G. period 6s	62 19	13	White round concrete structure; 52.	
6188 <i>M 6104</i>	-Yokkaichi, basin, breakwater, head.	34° 57.0' N 136° 38.0' E	Fl.W. period 3s	26 8	10	White round concrete tower; 23.	
6192 <i>M 6096</i>	-Isozu Ko, S. breakwater.	34° 55.0' N 136° 39.0' E	Iso.G. period 6s	46 14	12	White round fiberglass structure; 33.	
6196 <i>M 6095</i>	Suzuka Ko, S. breakwater.	34° 53.0' N 136° 38.4' E	F.Fl.(2)G. period 8s 2 fl. 3s, ec. 5s	46 14	F. 5 Fl 11	White tower; 31.	
6200 <i>M 6094.4</i>	Wakamatu Ko, S. breakwater.	34° 52.1' N 136° 37.6' E	Oc.G. period 4s	39 12	4	White round concrete structure; 31.	
6204 <i>M 6094</i>	Chiyosaki Ko, S. breakwater.	34° 51.3' N 136° 37.1' E	Iso.G. period 6s	43 13	4	White tower; 32.	
6208 <i>M 6093</i>	Shiroko Ko, S. breakwater, head.	34° 50.0' N 136° 36.0' E	Oc.(2)G. period 6s	31 9	11	White octagonal concrete tower; 30.	
6209 <i>M 6093.6</i>	-Outer breakwater, N. head.	34° 49.5' N 136° 35.8' E	Fl.G. period 3s	39 12	3	White tower; 30.	
6210 <i>M 6093.5</i>	--S. head.	34° 49.5' N 136° 35.6' E	Fl.R. period 3s	43 13	3	Red tower; 31.	
6212 <i>M 6087</i>	Tsu Ko, 4 miles NNE.	34° 47.0' N 136° 33.0' E	Iso.G. period 6s	39 12	11	White round concrete structure; 31.	
6216	Tsu Ko, Nie Saki, Gawa, entrance.	34° 43.0' N 136° 32.0' E	Iso.W. period 8s	53 16	12	White square concrete tower; 27.	
6220 <i>M 6084</i>	-N. breakwater, head.	34° 42.6' N 136° 31.6' E	Fl.(2)R. period 6s	36 11	5	Red octagonal concrete tower; 30.	
6222 <i>M 6085</i>	-Breakwater, S. head.	34° 42.2' N 136° 31.9' E	Fl.R. period 3s	39 12	9	Red tower; 31.	
6224 <i>M 6082</i>	Tuko Iguratu, breakwater.	34° 40.8' N 136° 33.0' E	Oc.(2)G. period 6s	59 18	8	White round concrete structure; 53.	
6228 <i>M 6081.4</i>	Karasu Ko, S. breakwater.	34° 39.7' N 136° 33.1' E	Iso.G. period 6s	43 13	4	White round concrete tower; 30.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-SOUTH COAST							
6232 <i>M 6080</i>	Matsuzaka Ko, E. breakwater, head.	34° 37.0' N 136° 33.7' E	Iso.G. period 6s	39 12	10	White tower; 33.	
6236 <i>M 6081</i>	Ryosi Ko, W. breakwater.	34° 36.6' N 136° 32.5' E	Fl.R. period 3s	39 12	3	Red round concrete tower; 32.	
6240 <i>M 6081.2</i>	-Inner breakwater, head.	34° 36.6' N 136° 31.8' E	Iso.R. period 6s	39 12	4	Red tower; 33.	
6244	Matsusaki Ko Range, front, wharf, head.	34° 36.0' N 136° 34.0' E	F.W.	39 12	11	Round metal structure, white triangular topmark; 39.	
6248 <i>M 6080.2</i>	-Rear, 40 meters 204° 48' from front.	34° 36.5' N 136° 33.6' E	F.W.	49 15	12	Round metal structure, white triangular daymark; 49.	
6252 <i>M 6074</i>	Oyodo Ko, N. breakwater.	34° 34.0' N 136° 40.0' E	Iso.R. period 6s	36 11	11	Red octagonal concrete structure; 26.	
6254 <i>M 6073.5</i>	Muramatu Ko.	34° 33.0' N 136° 41.5' E	Fl.G. period 3s	27 8	6	White tower; 18.	
6255	Toyokita Ko.	34° 32.8' N 136° 43.1' E	Fl.(2)R. period 6s		7		
6260 <i>M 6066</i>	Ujiyamada Ko, N. jetty.	34° 32.0' N 136° 46.0' E	Fl.R. period 3s	32 10	9	Red square metal framework tower; 27.	
6264 <i>M 6063.6</i>	Omura Sima.	34° 30.6' N 136° 49.2' E	Mo.(D)R. period 8s	36 11	9	STARBOARD (B) R, beacon, topmark; 32.	
6268 <i>M 6064</i>	Kozaki Saki.	34° 30.4' N 136° 48.5' E	Iso.W. period 8s	299 91	20	White tower; 26.	
6272 <i>M 6050.8</i>	-Obama Fishery Harbor.	34° 30.0' N 136° 50.1' E	Fl.(2)G. period 6s	30 9	3	White tower; 26.	
TOBA KO:							
6276 <i>M 6050</i>	-Toba Ko , entrance range, front.	34° 29.0' N 136° 51.0' E	FR.	141 43	16	White square metal tower; 79.	
6280 <i>M 6050.1</i>	--Rear, 200 meters 243° 37' from front.	34° 29.1' N 136° 50.4' E	Iso.R. period 4s	194 59	16	White round metal tower, concrete base; 25.	Visible 243° -246° .
6284 <i>M 6050.3</i>	-E. breakwater.	34° 29.0' N 136° 51.0' E	F.Fl.G. period 5s	39 12	F. 5 Fl 11	White round concrete structure; 32.	
6288 <i>M 6047.6</i>	-Sakate, S. breakwater.	34° 28.8' N 136° 51.7' E	Iso.R. period 6s	39 12	11	Red round concrete structure; 32.	
6292 <i>M 6063</i>	-Shimaga Saki.	34° 30.0' N 136° 51.0' E	Fl.(2)W. period 7s 2 fl. 3s, ec. 4s	95 29	15	White concrete cross; 31.	
6294 <i>M 6063.5</i>	Momotori Ko, W. breakwater.	34° 30.9' N 136° 51.0' E	Fl.G. period 3s	27 8	3	White tower; 18.	
6296 <i>M 6063.4</i>	-E. breakwater.	34° 30.8' N 136° 51.5' E	Fl.R. period 3s	27 8	6	Red tower; 19.	
6300 <i>M 6047.4</i>	-Seigan Shima.	34° 28.8' N 136° 52.2' E	Fl.(2)W. period 5s	29 9	11	ISOLATED DANGER BRB, beacon, topmark; 31.	
6304 <i>M 6047.8</i>	-Maruyama Saki.	34° 29.4' N 136° 52.0' E	Mo.(C)G. period 17s	32 10	5	PORT (B) G, beacon, topmark.	
6307 <i>M 6036.3</i>	Koka Ko.	34° 18.9' N 136° 53.6' E	Fl.G. period 3s	30 9	3	White tower; 16.	
6308 <i>M 6057.8</i>	Tosi Ko, N. breakwater, head.	34° 31.9' N 136° 54.3' E	Fl.G. period 4s	30 9	5	White tower; 17.	
6312 <i>M 6058</i>	Toshi Ko, S. breakwater, head.	34° 31.9' N 136° 54.3' E	Oc.G. period 4s lt. 3s, ec. 1s	46 14	9	White tower; 28.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-SOUTH COAST							
6316 <i>M 6059</i>	Toshi Wagu Ko, S. breakwater.	34° 31.1' N 136° 54.1' E	Fl.R. period 3s	30 9	7	Red round concrete structure; 19.	
6320 <i>M 6048.5</i>	Sugashima Ko, N. breakwater.	34° 30.2' N 136° 54.0' E	Fl.(2)G. period 6s	42 13	3	White tower; 31.	
6324 <i>M 6049</i>	-S. breakwater.	34° 30.0' N 136° 53.8' E	Iso.G. period 6s	39 12	4	White tower; 28.	
6328 <i>M 6048</i>	Suga Shima.	34° 30.0' N 136° 55.0' E	Fl.W. period 4s	181 55	20	White round brick tower; 32.	Visible 156° -008° .
6330 <i>M 6047.2</i>	Arasima, breakwater, S. head.	34° 27.5' N 136° 52.4' E	Fl.R. period 3s	26 8	7	Red tower; 19.	
6332 <i>M 6047</i>	Maenage Se.	34° 26.9' N 136° 53.2' E	Mo.(D)R. period 8s	30 9	6	STARBOARD (B) R, beacon, topmark; 28.	
6336 <i>M 6046</i>	Ijika.	34° 26.0' N 136° 56.0' E	Fl.(2)W. period 7s 2 fl. 3s, ec. 4s	125 38	17	White octagonal concrete structure; 31.	
6340 <i>M 6046.3</i>	-Breakwater.	34° 26.8' N 136° 55.4' E	Fl.G. period 3s	43 13	3	White tower; 31.	
6344 <i>M 6045</i>	Yoroi Zaki.	34° 25.0' N 136° 56.0' E	Iso.W. period 6s	89 27	15	White octagonal concrete tower; 31.	
6348 <i>M 6045.2</i>	Kusaki Ko, S. breakwater.	34° 24.5' N 136° 55.6' E	F.Fl.R. period 5s	43 13	F. 6 Fl 12	Red round concrete structure; 27.	
6352 <i>M 6042.3</i>	Osatsu, breakwater.	34° 23.0' N 136° 55.0' E	Iso.R. period 6s	39 12	11	Red round concrete structure; 31.	
6356 <i>M 6042</i>	Anori Saki.	34° 22.0' N 136° 55.0' E	Fl.W. period 15s	108 33	16	White square concrete tower; 43.	Visible 093° -033° . Storm signals.
6360 <i>M 6044.5</i>	-Matoya Ko, inside of Suga Saki.	34° 23.0' N 136° 54.0' E	F.G.	36 11	11	White tower; 33.	Visible 200° -084° .
6362 <i>M 6042.4</i>	-E. breakwater.	34° 21.6' N 136° 54.0' E	Iso.G. period 6s	39 12	11	White tower; 29.	
6364 <i>M 6042.46</i>	--W. breakwater, head.	34° 21.9' N 136° 53.8' E	Fl.R. period 4s	36 11	3	Red round concrete structure; 30.	
6368 <i>M 6042.6</i>	-Oki Se.	34° 22.0' N 136° 53.0' E	Fl.R. period 3s	39 12	9	STARBOARD (B) R, beacon, topmark.	
6372 <i>M 6044</i>	-Watakano Shima, breakwater.	34° 21.6' N 136° 52.6' E	Iso.R. period 6s	36 11	11	Red tower; 31.	
6374 <i>M 6042.25</i>	-SE. breakwater.	34° 21.9' N 136° 54.6' E	Fl.(2)G. period 6s	36 11	3	White tower; 31.	
6376 <i>M 6038</i>	Nakiri Ko, inner breakwater.	34° 16.7' N 136° 54.1' E	Fl.G. period 3s	43 13	6	White round concrete tower; 30.	
6378	-Outer breakwater, head.	34° 17.0' N 136° 54.2' E	Oc.G. period 4s	57 17	4	White tower; 36.	
6380 <i>M 6036.4</i>	Nada Miyauzi Sima.	34° 17.3' N 136° 53.8' E	F.W.	95 29		White round concrete structure; 32.	Illuminates white beacon on Miyauzi Sima.
6384 <i>M 6036</i>	Daio Saki.	34° 16.6' N 136° 54.0' E	Al.Fl.W.R. period 30s	151 46	W. 18 R. 17	White round concrete tower; 75.	Visible 199° -079° .
			F.R.				Visible 043° -079° .
6388	Daio Zaki N.	34° 16.0' N 136° 54.0' E	F.W.	89 27		Concrete tower; 10.	Illuminates Daio Iwa about 720 meters ENE.
6392 <i>M 6035</i>	Fukaya Suido, entrance.	34° 15.6' N 136° 51.9' E	Fl.W. period 3s	46 14	10	White round concrete structure; 33.	Visible 265° -095° .
6394 <i>M 6035.2</i>	-N. entrance.	34° 16.1' N 136° 51.8' E	Iso.G. period 6s	36 11	6	White tower; 31.	Visible 010° -200° .

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JAPAN-HONSHU-SOUTH COAST							
6396 <i>M 6034.2</i>	Mugi Saki.	34° 14.6' N 136° 51.0' E	Iso.W. period 6s	92 28	15	White round concrete structure, quadrangular concrete base; 52.	
6400 <i>M 6034.5</i>	Katada Ko, S. breakwater.	34° 15.0' N 136° 50.6' E	F.F.I.R. period 5s	46 14	F 3 Fl 8	Red round concrete structure; 32.	
6404 <i>M 6033.8</i>	Onaga Iso.	34° 14.0' N 136° 50.0' E	Fl.(2)G. period 6s	52 16	10	PORT (B) G, beacon, topmark.	
6408 <i>M 6033.7</i>	Fuseda.	34° 14.3' N 136° 48.3' E	Mo.(C)G. period 13s	49 15	7	PORT (B) G, beacon, topmark.	
6412 <i>M 6033.5</i>	Wagu Ko, E. breakwater.	34° 15.1' N 136° 48.3' E	Oc.R. period 4s lt. 3s, ec. 1s	43 13	5	Red tower; 31.	
6414 <i>M 6033.6</i>	-Outer breakwater.	34° 14.8' N 136° 48.6' E	Fl.G. period 3s	42 13	6	White tower; 28.	
6416 <i>M 6033.46</i>	Iwai Misaki.	34° 15.0' N 136° 46.0' E	F.W.	121 37		White round concrete structure; 59.	Illuminates Yasuri Saki, 550 meters WSW.
6420 <i>M 6032.7</i>	Goza Misaki.	34° 16.0' N 136° 45.3' E	Fl.W. period 10s	322 98	25	White round concrete structure; 46.	Visible 295° -180°.
6424 <i>M 6033.3</i>	Goza Ko, W. breakwater.	34° 16.0' N 136° 46.0' E	Iso.R. period 8s	36 11	11	Red round concrete tower; 31.	
6428 <i>M 6033.31</i>	Yatorino Se, on rock.	34° 16.6' N 136° 48.8' E	Fl.(2)W. period 5s	30 9	3	ISOLATED DANGER BRB, beacon, topmark.	
6432 <i>M 6033.32</i>	O Hana.	34° 16.1' N 136° 50.2' E	Fl.W. period 3s	33 10	10	White round concrete structure; 31.	
6436 <i>M 6033.42</i>	Masaka Shima.	34° 17.0' N 136° 48.7' E	F.F.I.R. period 4s	33 10	F 6 Fl 11	Red round concrete structure; 31.	
6440 <i>M 6033</i>	Hamajima Ko, on Yatori Islet.	34° 17.5' N 136° 45.9' E	Fl.W. period 4s	66 20	5	White round concrete tower; 27.	
6444 <i>M 6033.2</i>	-Breakwater.	34° 17.7' N 136° 45.8' E	Oc.G. period 8s	39 12	11	White tower; 31.	
6448 <i>M 6032</i>	Taso Saki.	34° 17.0' N 136° 42.0' E	Fl.(2)W. period 6s	318 97	17	White round concrete tower; 39.	
6452 <i>M 6031</i>	-Katsurs, on breakwater.	34° 17.0' N 136° 41.0' E	Fl.(2)R. period 6s	46 14	9	Red round concrete structure; 33.	
6456 <i>M 6032.2</i>	Gokasho Ko, O Shima.	34° 18.0' N 136° 40.0' E	Fl.(3)W. period 12s	49 15	12	White round concrete structure 32.	
6460 <i>M 6032.4</i>	Mabana Shima.	34° 19.0' N 136° 41.0' E	Fl.W. period 4s	56 17	12	White round concrete structure; 33.	
6464 <i>M 6032.3</i>	Hazama Ura.	34° 19.0' N 136° 41.0' E	F.G.	36 11	11	White round concrete tower; 26.	Visible 031° -275°.
6468 <i>M 6032.5</i>	Gokasho Ko, Sone Se.	34° 20.0' N 136° 42.0' E	Mo.(A)R. period 8s	31 9	9	STARBOARD (B) R, beacon, topmark.	
6472 <i>M 6032.6</i>	Gokasyo Ura.	34° 20.6' N 136° 42.1' E	F.F.I.R. period 5s	36 11	F 6 Fl 11	Red round concrete structure; 32.	
6476 <i>M 6028</i>	Oguara Ko, W. side of bay, breakwater, head.	34° 17.4' N 136° 39.5' E	Iso.R. period 6s	25 8	7	Red round concrete structure; 17.	
6480	Tasikara Wan.	34° 16.0' N 136° 33.0' E	Oc.R. period 8s	39 12	11	Red tower; 33.	
6484 <i>M 6027.6</i>	Nieura Ko.	34° 16.6' N 136° 33.3' E	Fl.R. period 3s	39 12	3	Red round concrete tower; 31.	
6488 <i>M 6027.5</i>	Asoura Ko, jetty.	34° 16.5' N 136° 34.7' E	Fl.R. period 3s	49 15	4	Red tower; 36.	
6492 <i>M 6027.4</i>	Mie Shima.	34° 14.0' N 136° 33.0' E	Fl.W. period 5s	220 67	20	White quadrangular concrete tower; 23.	

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JAPAN-HONSHU-SOUTH COAST							
6496 M 6027.2	Nayaura Naka-no-Sima.	34° 15.7' N 136° 32.2' E	Fl.(2)R. period 6s	27 8	3	Red tower; 13.	
6500 M 6027.15	Yosizu Ko.	34° 16.5' N 136° 32.4' E	Iso.R. period 6s	39 12	4	Red round concrete tower; 33.	
6504 M 6027.17	-W. breakwater, head.	34° 16.5' N 136° 32.4' E	Iso.G. period 6s	39 12	4	White tower; 33.	
6508 M 6026.5	Mijojino Se, Kanzaki Wan.	34° 15.3' N 136° 31.3' E	Fl.(2)W. period 5s	42 13	12	ISOLATED DANGER BRB, beacon, topmark; 36.	
6512 M 6027	Yoshizu.	34° 16.4' N 136° 30.2' E	Iso.W. period 6s	184 56	4	White tower; 32.	
6516 M 6026.4	Hoza Ko.	34° 15.1' N 136° 30.1' E	Dir.F.W.R.G.	135 41	W. 16 R. 11 G. 10	White tower; 23.	R. 322.5° -327.5°, W.-329°, G.-334°.
6520 M 6026.3	Kowaura.	34° 14.8' N 136° 27.4' E	Iso.W. period 8s	36 11	4	White round concrete structure; 27.	
6522 M 6026.35	Kowaura Wan.	34° 15.2' N 136° 27.7' E	Fl.G. period 3s	30 9	3	White tower; 18.	
6524 M 6025	Nishiki.	34° 13.0' N 136° 23.0' E	Iso.W. period 8s	144 44	18	White round concrete tower; 33.	
6528 M 6025.6	-Breakwater.	34° 12.8' N 136° 24.0' E	Fl.(2)R. period 6s	46 14	7	Red tower; 28.	
6536 M 6025.4	Nisiki Ko, E. outer breakwater.	34° 12.6' N 136° 23.6' E	Fl.R. period 3s	52 16	3	Red tower; 31.	
6537 M 6025.7	-W. breakwater, head.	34° 12.8' N 136° 23.8' E	Iso.G. period 6s	36 11	11	White tower; 28.	
6540 M 6024.8	Kome Shima.	34° 11.3' N 136° 24.3' E	Fl.(3)W. period 12s	75 23	12	White round concrete structure; 32.	
6544 M 6023.8	O Lsi.	34° 11.0' N 136° 22.0' E	Fl.(2)R. period 6s	69 21	9	White round concrete structure; 29.	
6548 M 6022	-Nagashima O Shima.	34° 09.0' N 136° 22.0' E	Fl.(3)W. period 18s	322 98	17	White round concrete structure; 31.	
6552 M 6024	Nagashima Ko, breakwater.	34° 11.8' N 136° 20.7' E	Iso.G. period 6s	49 15	12	White round concrete tower; 36.	
6558 M 6022.7	-Breakwater, head.	34° 09.6' N 136° 17.0' E	Fl.R. period 3s	39 12	11	Red tower; 28.	
6560 M 6022.4	Utaka Bana.	34° 07.7' N 136° 17.5' E	Iso.W. period 6s	157 48	19	White round concrete structure; 26.	
6564 M 6022.5	-Simakatu Ura.	34° 07.6' N 136° 17.4' E	Iso.G. period 6s	39 12	11	White structure; 31.	
6568 M 6022.2	Shimakatsu.	34° 07.0' N 136° 17.4' E	Fl.W. period 5s	174 53	5	White round concrete tower; 29.	
6572 M 6023.5	-S. breakwater.	34° 06.8' N 136° 17.7' E	Fl.R. period 3s	39 12	3	Red round concrete tower; 31.	
6576 M 6023	-No. 1 breakwater.	34° 06.9' N 136° 17.7' E	Fl.G. period 3s	43 13	3	White round concrete structure; 33.	
OWASHI WAN:							
6580 M 6012	-Onaso Hana.	34° 05.0' N 136° 16.0' E	Fl.(3)W. period 12s	197 60	12	White round concrete tower; 26.	
6584 M 6021.5	Hikimoto Ura.	34° 05.0' N 136° 16.0' E	Fl.(2)R. period 6s	72 22	9	Red round concrete structure; 33.	
6588 M 6013	-Nage Isi.	34° 04.5' N 136° 15.1' E	Fl.W. period 5s	49 15	12	White square concrete tower; 25.	

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JAPAN-HONSHU-SOUTH COAST							
6592 <i>M 6021</i>	-Sugari Ko.	34° 06.0' N 136° 15.7' E	Fl.W. period 3s	39 12	3	White round concrete structure; 32.	
6596 <i>M 6019</i>	-Zingu Shima.	34° 05.5' N 136° 15.0' E	Mo.(A)R. period 8s	39 12	7	STARBOARD (B) R, beacon, topmark; 33.	
6600 <i>M 6020</i>	-Hikimoto Ko, breakwater.	34° 06.3' N 136° 14.6' E	Iso.G. period 4s	30 9	4	White octagonal concrete tower; 28.	
6604 <i>M 6016</i>	-Owashi Ko, No. 1 breakwater.	34° 04.0' N 136° 13.0' E	Iso.R. period 6s	46 14	12	Red round concrete structure; 31.	
6608 <i>M 6017</i>	--No. 2 breakwater.	34° 04.3' N 136° 12.3' E	Iso.G. period 6s	46 14	5	White pyramidal concrete tower; 31.	
6612 <i>M 6015</i>	--Osone Ura, E. breakwater, head.	34° 03.9' N 136° 13.3' E	Fl.G. period 3s	43 13	3	White quadrangular metal framework structure; 32.	
6616 <i>M 6014</i>	-Yukina Ura, N. breakwater, head.	34° 03.8' N 136° 14.7' E	F.Fl.G. period 3s	43 13	F. 5 Fl 12	White quadrangular metal framework structure; 31.	
6620 <i>M 6011</i>	Togashira Shima.	34° 03.4' N 136° 15.9' E	Fl.W. period 4s	423 129	20	White round concrete structure; 36.	F.W. about 480 meters 280° illuminates beacon 170 meters NW.
6624 <i>M 6010.4</i>	Kuki Ko Kutu Saki.	34° 00.4' N 136° 15.7' E	Iso.W. period 6s	114 35	17	White round concrete tower; 28.	
6628 <i>M 6009.2</i>	Hobo Ko, breakwater.	33° 56.4' N 136° 12.3' E	Fl.G. period 3s	39 12	6	White round concrete structure; 33.	
6632 <i>M 6009</i>	Nikijima.	33° 55.7' N 136° 12.7' E	Iso.W. period 6s	148 45	17	White round concrete tower; 38.	
6636 <i>M 6008.7</i>	Yuki Ko, breakwater.	33° 55.3' N 136° 10.3' E	Iso.R. period 6s	43 13	12	Red round concrete tower; 28.	
6640 <i>M 6008.5</i>	Ino Hana.	33° 53.2' N 136° 07.8' E	Fl.(2)W. period 7s 2 fl. 3s, ec. 4s	276 84	7	White octagonal concrete tower; 33.	
6644 <i>M 6008</i>	Kodomari Ko, breakwater, head.	33° 53.4' N 136° 07.7' E	F.Fl.R. period 6s	43 13	F. 6 Fl 12	Red round concrete tower; 31.	
6648 <i>M 6009.6</i>	Kajika Ko, N. breakwater.	33° 58.1' N 136° 13.1' E	Fl.R. period 4s	43 13	5	Red tower; 31.	
6652 <i>M 6009.5</i>	Kosugi Hana.	33° 58.3' N 136° 13.5' E	Fl.W. period 5s	98 30	16	White octagonal concrete tower; 32.	
6656 <i>M 6009.54</i>	Kata O Saki.	33° 58.0' N 136° 12.8' E	Iso.G. period 6s	49 15	12	White round concrete structure; 28.	
6660 <i>M 6009.64</i>	Hurue Ko.	33° 58.3' N 136° 12.6' E	Iso.R. period 6s	36 11	11	Red round concrete structure; 29.	
6664 <i>M 6009.7</i>	Kata Wan.	33° 58.9' N 136° 14.5' E	Fl.G. period 3s	26 8	6	Red concrete structure; 21.	
6668 <i>M 6010</i>	Miki Saki.	33° 58.2' N 136° 16.4' E	Fl.(3)W. period 30s 3 fl. 12s, ec. 18s	489 149	30	White round concrete tower; 46.	Visible 185° -055°.
6672 <i>M 6010.2</i>	Haita Entrance.	33° 59.6' N 136° 15.6' E	Oc.W. period 4s	154 47	5	White tower; 25.	
6676 <i>M 6010.3</i>	Haita Ko.	34° 59.6' N 136° 15.7' E	Fl.R. period 3s	39 12	7	Red tower; 31.	
6678 <i>M 6007.5</i>	Udono Ko, N. breakwater.	33° 44.0' N 136° 01.6' E	Fl.G. period 3s	52 16	8	White tower; 36.	
6680 <i>M 6007.4</i>	Udono Ko.	33° 43.9' N 136° 01.5' E	F.Fl.G. period 5s	43 13	F. 5 Fl 12	White square metal framework tower; 28.	
6681 <i>M 6007.35</i>	Singu Ko, detached breakwater, N. head.	33° 40.4' N 135° 59.5' E	Fl.G. period 3s	46 14	8	White round concrete tower; 28.	

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JAPAN-HONSHU-SOUTH COAST							
6682 <i>M 6007.3</i>	Singu Ko, detached breakwater, S. head.	33° 40.0' N 135° 59.4' E	Fl.(2)R. period 6s	52 16	9	Red tower; 33.	
6684 <i>M 6007.2</i>	-S. breakwater, head.	33° 40.0' N 135° 59.4' E	Iso.G. period 6s	43 13	12	White round concrete structure; 31.	
6688 <i>M 6007</i>	Ugui.	33° 38.8' N 135° 58.9' E	Fl.W. period 5s	174 53	19	White round concrete tower; 28.	
6692 <i>M 6007.1</i>	Ugui, entrance.	33° 39.1' N 135° 58.7' E	Iso.R. period 6s	43 13	4	Red round concrete structure; 32.	
6696 <i>M 6006.8</i>	Obera Shima.	33° 38.1' N 135° 58.9' E	Fl.W. period 3s	62 19	5	White tower; 49.	
6700 <i>M 6004</i>	Oto Shima.	33° 37.0' N 135° 57.0' E	Fl.W. period 3s	52 16	13	White round concrete tower; 36.	
6704 <i>M 6006</i>	Ketano Hana, Naka Shima, E. side.	33° 37.0' N 135° 57.0' E	Iso.G. period 8s	39 12	11	White round concrete tower; 28.	
6708 <i>M 6003</i>	Katsuo Jima.	33° 36.2' N 135° 57.9' E	Fl.(2)W. period 7s	66 20	9	White round concrete structure; 49.	
6712 <i>M 6003.4</i>	Taichi Ko, N. breakwater.	33° 35.5' N 135° 57.0' E	F.Fl.R. period 6s	49 15	F 1 Fl 3	Red round concrete tower; 29.	
6716 <i>M 6002</i>	Kantori Saki.	33° 34.7' N 135° 57.7' E	Fl.W. period 8s	135 41	18	White round concrete tower; 53.	F.W. illuminates Naminori Syo 630 meters SE.
6720 <i>M 6001.5</i>	Kusimoto Ko.	33° 34.0' N 135° 56.0' E	Iso.W.R. period 6s	184 56	17	White tower; 28.	R. 001° -031° , W.-001° . Red sector indicates sunken rocks and islets dangerous to navigation.
6724 <i>M 6001</i>	Urakami Ko Range, front.	33° 33.6' N 135° 54.5' E	F.G.	36 11	11	White round concrete tower, daymark; 33.	
6728 <i>M 6001.1</i>	-Rear, about 100 meters 259° 18' from front.	33° 33.6' N 135° 54.4' E	F.G.	69 21	14	White round concrete tower, daymark; 66.	
6732 <i>M 6000</i>	Koza Kawaguchi.	33° 30.6' N 135° 49.9' E	Oc.R. period 8s	36 11	11	Red round concrete tower; 28.	
6736 <i>M 5996.2</i>	Kushimoto, S. breakwater.	33° 28.3' N 135° 47.3' E	Fl.G. period 3s	46 14	12	White tower; 33.	
6740 <i>M 5996.05</i>	-Kushimoto, 0.5 mile S.	33° 27.8' N 135° 47.3' E	Fl.(2)G. period 6s	39 12	8	White round concrete structure; 31.	
6742 <i>M 5999</i>	-O Shima Sue Ko, approach.	33° 27.1' N 135° 50.1' E	Fl.R. period 3s	36 11	6	Red tower; 20.	
6744 <i>M 5997</i>	Kii O Shima Ko S. Breakwater, about 1207 meters 224° from Kane Yama summit.	33° 28.1' N 135° 48.2' E	Oc.R. period 8s lt. 6s, ec. 2s	39 12	11	Red round concrete tower; 31.	
6748 <i>M 5996.4</i>	Kusimoto Ko.	33° 27.8' N 135° 47.9' E	F.Fl.(2)R. period 6s	39 12	F 6 Fl 10	Red tower; 21.	F.W. spotlight illuminates rocks 46 meters WNW.
6750 <i>M 5996.5</i>	-Toziro Hana.	33° 27.6' N 135° 48.0' E	Fl.(2)R. period 6s	49 15	8	Red mast; 35.	
6752 <i>M 5997.3</i>	Tojima Saki, about 366 meters 30° 15' from Kane Yama summit.	33° 29.0' N 135° 49.0' E	Fl.W. period 3s	36 11	11	White round concrete tower; 26.	
6756 <i>M 5998</i>	Kashino Saki.	33° 28.0' N 135° 52.0' E	Fl.(2)W. period 20s 2 fl. 5s, ec. 15s	154 47	18	White round stone tower; 49.	Visible 109° -033° .
6760 <i>M 5997.6</i>	Kashino Ko, breakwater, O Shima.	33° 28.3' N 135° 51.2' E	Iso.G. period 4s	39 12	4	White tower; 23.	
6764 <i>M 5995.8</i>	Shirano Fishery Harbor, N. breakwater, head.	33° 27.1' N 135° 49.5' E	Iso.G. period 4s	28 9	10	White round concrete tower; 25.	
6768 <i>M 5995</i>	Uno Shima, NE.	33° 26.8' N 135° 48.2' E	Fl.(2)W. period 8s	69 21	9	White round concrete tower; 46.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-SOUTH COAST							
6772 <i>M 5995.6</i>	Myoga Sima.	33° 27.0' N 135° 48.0' E	Fl.W. period 3s	53 16	12	White round concrete structure; 46.	
6776 <i>M 5994</i>	Shiono Misaki.	33° 26.0' N 135° 45.4' E	Fl.W. period 15s	161 49	19	White round stone tower; 75.	Visible 278° -130° . Signal station.
	RAMARK				20		
6780 <i>M 5996</i>	Kusimoto Ko, N. breakwater, head.	33° 28.0' N 135° 47.0' E	Fl.R. period 3s	42 13	12	Red round concrete structure; 31.	
6784 <i>M 5997.2</i>	-Kusimoto Ko, NE. breakwater, head.	33° 28.5' N 135° 48.2' E	Fl.G. period 5s	36 11	3	White tower; 28.	
			FR.		1	Same structure.	
6788 <i>M 5991</i>	Fukuro Ko Range No. 1, front.	33° 28.0' N 135° 47.0' E	FG.	36 11	11	White round concrete tower, arrowhead topmark; 32.	
6792 <i>M 5991.1</i>	-Rear, about 30 meters 078° 36' from front.	33° 27.9' N 135° 46.5' E	FG.	52 16	12	White round concrete tower, arrowhead topmark; 39.	
6796 <i>M 5992</i>	-Range No. 2, front.	33° 29.0' N 135° 47.0' E	FR.	29 9	8	White round concrete tower, arrowhead topmark; 31.	
6800 <i>M 5992.1</i>	--Rear, about 20 meters 017° 06' from front.	33° 28.6' N 135° 46.5' E	FR.	46 14	8	White round concrete tower, arrowhead topmark; 39.	
6802 <i>M 5990</i>	Arita Ko, breakwater, head.	33° 28.7' N 135° 44.3' E	Fl.R. period 3s	46 14	9	Red tower; 33.	
6804 <i>M 5989</i>	Esu Zaki.	33° 29.0' N 135° 36.0' E	Fl.(2)W. period 10s 2 fl. 4s, ec. 6s	108 33	16	White round concrete structure; 36.	
6808 <i>M 5988</i>	Susami Ko.	33° 32.4' N 135° 29.4' E	Fl.W. period 5s	190 58	20	White round concrete tower; 33.	
6812 <i>M 5988.4</i>	Susami Ko.	33° 33.0' N 135° 30.0' E	Dir.F.W.R.G.	82 25	15	White round concrete structure; 24.	W. 033° -036° 50' (marks fairway with channel. centerline 035°), R. 027° 30' -033° 10' (starboard side of fairway), G. 036° 50' - 042° 30' (Port side of fairway).
6816 <i>M 5987</i>	Hiki Ko.	33° 33.5' N 135° 26.7' E	Fl.R. period 3s	29 9	3	Red circular concrete tower; 18.	
6820 <i>M 5986</i>	Itie Saki.	33° 35.3' N 135° 23.9' E	Fl.(2)W. period 30s	312 95	22	White round concrete tower; 36.	Visible 313° -145° .
6824 <i>M 5984</i>	Bansho Yama.	33° 41.4' N 135° 20.2' E	Oc.W. period 8s	122 37	17	White round concrete tower; 28.	
6828 <i>M 5979</i>	Siso Shima islet W. of Bansho Yama.	33° 41.4' N 135° 19.8' E	Fl.W. period 5s	46 14	12	White concrete structure; 40.	
6832 <i>M 5978</i>	Tanabe Oki-no-Shima.	33° 42.9' N 135° 19.7' E	Fl.W. period 3s	49 15	12	White tower; 49.	
6836 <i>M 5977.7</i>	Sima - Haya Wan.	33° 44.5' N 135° 20.1' E	Fl.G. period 3s	39 12	7	White tower; 28.	
	TANABE KO:						
6840 <i>M 5977.6</i>	-Haya Ko, W. breakwater, head.	33° 44.2' N 135° 21.5' E	Iso.G. period 6s	36 11	11	White round concrete structure; 31.	
6844 <i>M 5980</i>	-Egawa, W. breakwater.	33° 43.4' N 135° 21.9' E	Iso.G. period 4s	46 14	12	White concrete structure; 32.	
6848 <i>M 5980.9</i>	-Minatoura, breakwater.	33° 42.9' N 135° 23.0' E	Iso.G. period 6s	39 12	12	White round concrete structure; 31.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-HONSHU-SOUTH COAST							
6850 <i>M 5981.7</i>	-Breakwater, S. head.	33° 42.7' N 135° 23.1' E	Fl.G. period 3s	29 9	6	White tower; 19.	
6852 <i>M 5980.4</i>	--E. breakwater.	33° 44.0' N 135° 22.0' E	Iso.R. period 4s	43 13	12	Red round concrete structure; 30.	
6858 <i>M 5980.8</i>	-Range, front.	33° 43.5' N 135° 22.6' E	F.Y.	46 14	12	White round tower, red bands, white triangular topmark; 34.	
6860 <i>M 5980.61</i>	--Rear, 183 meters 065° 36' from front.	33° 43.6' N 135° 22.7' E	F.Y.	72 22	14	White round tower, red bands, white triangular topmark; 60.	
6864 <i>M 5981</i>	-Isoma Range, front.	33° 42.9' N 135° 23.0' E	F.Y.	26 8	10	White round tower, white triangular topmark; 22.	
6868 <i>M 5981.1</i>	--Rear, 060° from front.	33° 43.0' N 135° 23.2' E	F.Y.	39 12	11	White round tower, white triangular topmark; 35.	
6872 <i>M 5981.6</i>	-Mori, W. breakwater.	33° 42.7' N 135° 23.8' E	F.Fl.G. period 6s	36 11	F. 5 Fl 11	White round concrete tower; 28.	
6876 <i>M 5981.8</i>	-Atonoura, breakwater.	33° 43.0' N 135° 24.0' E	Fl.R. period 3s	36 11	11	Red round concrete structure; 31.	
6880 <i>M 5977.4</i>	Inami Ko, E. breakwater.	33° 48.6' N 135° 12.9' E	Fl.R. period 3s	39 12	7	Red round concrete structure; 31.	
6884 <i>M 5977</i>	Inami Ko Yokoshima, breakwater.	33° 48.6' N 135° 12.9' E	Fl.(2)R. period 6s	43 13	7	Red round concrete tower; 27.	
6888 <i>M 5974</i>	Gobo Katuo Sima.	33° 51.2' N 135° 09.0' E	Fl.W. period 4s	59 18	9	White round concrete structure; 49.	
6892 <i>M 5974.5</i>	Gobo Ko, outer breakwater.	33° 52.0' N 135° 09.0' E	Fl.R. period 6s	69 21	7	Red round concrete structure; 46.	
6896 <i>M 5975</i>	Gobo Ko, Siويا Ko, S. breakwater, head.	33° 51.5' N 135° 09.6' E	Iso.R. period 4s	26 8	7	Red round concrete structure; 31.	

Section 5

Eastern Part of Seto Naikai

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SETO NAIKAI-EASTERN PART (I)							
6900 <i>M 5970</i>	Hino Misaki.	33° 52.7' N 135° 03.8' E	Fl.(3)W. period 40s 3 fl. 15s, ec. 25s	460 140	29	White round concrete tower; 46.	Visible 273° -172° . Signal station. Storm signals shown about 0.5 mile NE.
	RAMARK				21		
6904 <i>M 5969.6</i>	Ao Ko, N. breakwater, head.	33° 54.2' N 135° 04.8' E	Iso.R. period 6s	43 13	12	Red round concrete structure; 32.	
6908 <i>M 5969.7</i>	-E. breakwater, head.	33° 54.2' N 135° 04.8' E	Iso.G. period 6s	42 13	12	White round concrete structure; 32.	
6912 <i>M 5969.4</i>	Naka Iso.	33° 54.7' N 135° 04.4' E	Fl.(2)W. period 5s	56 17	12	ISOLATED DANGER BRB, beacon, topmark; 52.	
6918	Yura Ko.	33° 56.0' N 135° 04.0' E	Fl.(2)R. period 6s	56 17	8	Red tower; 35.	
6924 <i>M 5969.2</i>	Kii Yura Ko Range, front.	33° 56.3' N 135° 05.0' E	F.G.	131 40	5	Metal column, white triangular daymark; 39.	Private aid.
6928 <i>M 5969.21</i>	-Rear, 30 meters 097° from front.	33° 56.3' N 135° 05.1' E	F.G.	135 41	5	Metal column, white triangular daymark; 15.	Private aid.
6932 <i>M 5969.08</i>	Muronoki Hana.	33° 56.7' N 135° 05.5' E	Fl.R. period 3s	33 10	4	Red metal framework tower; 20.	
6936 <i>M 5969.3</i>	Kii Yura Ko Kasane Yama Range, front.	33° 57.3' N 135° 05.8' E	F.W.	226 69	5	Metal post, white triangular topmark; 25.	Private aid.
6940 <i>M 5969.31</i>	-Rear, 40 meters 041° from front.	33° 57.4' N 135° 05.8' E	F.W.	240 73	5	Metal post, white triangular topmark; 10.	Private aid.
6944 <i>M 5968.6</i>	Asika Sima.	33° 58.7' N 135° 03.6' E	Fl.(2)W. period 5s	46 14	5	ISOLATED DANGER BRB, beacon, topmark; 46.	
6946 <i>M 5968.5</i>	Ena Ko.	33° 59.2' N 135° 06.6' E	Fl.(2)R. period 6s	29 9	7	Red tower; 20.	
6948 <i>M 5968.3</i>	Taka Sima.	34° 00.6' N 135° 07.7' E	Q.(6)+L.Fl.W. period 15s	49 15	9	S. CARDINAL YB, beacon, topmark.	
6950 <i>M 5968.4</i>	Karao Ko.	34° 00.3' N 135° 08.7' E	Fl.R. period 5s	27 8	6	Red tower; 18.	
6952 <i>M 5968</i>	Yuasahiro Ko, jetty.	34° 01.6' N 135° 10.3' E	Oc.R. period 4s	43 13	12	Red round concrete tower; 32.	
6954 <i>M 5967.9</i>	-Tikko, breakwater.	34° 01.9' N 135° 10.2' E	F.Fl.G. period 5s	42 13	F. 5 Fl 12	White tower; 28.	
6956 <i>M 5967.84</i>	-Suhara Ko, W. breakwater, head.	34° 02.3' N 135° 09.8' E	Fl.R. period 3s	39 12	11	Red round concrete structure; 31.	
6958 <i>M 5967.82</i>	Oi Ko.	34° 04.0' N 135° 06.3' E	Fl.G. period 3s	46 14	5	White concrete tower; 31.	
6960 <i>M 5967.8</i>	Kii Myazakino Hana.	34° 04.2' N 135° 05.0' E	Oc.W. period 8s	265 81	20	White quadrangular concrete tower; 28.	
6964 <i>M 5967.5</i>	Arida Ku, breakwater, head.	34° 04.4' N 135° 05.4' E	Fl.G. period 4s	30 9	5	White tower; 18.	
6968 <i>M 5967.4</i>	Simotu Ko.	34° 06.8' N 135° 04.6' E	Fl.W. period 4s	308 94	7	White square concrete tower; 43.	
6972 <i>M 5967.35</i>	Arida Ku, sea berth.	34° 06.6' N 135° 06.8' E	Mo.(U)W. period 15s	89 27	14		Mo.(U)W. 15s marks N. and S. ends of berth.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SETO NAIKAI-EASTERN PART (I)							
6976 <i>M 5966.62</i>	Huzi Kosan.	34° 07.8' N 135° 07.4' E	Mo.(U)W. period 10s	118 36	16		Mo.(U)W. 10s 11M auxiliary lights 240 meters NNE. and 220 meters S. Private aid. Horn: 1 bl. ev. 20s. Radar reflector.
OSAKI WAN:							
6980 <i>M 5966.5</i>	-Tubune Hana.	34° 07.6' N 135° 07.5' E	Iso.W. period 6s	95 29	15	White round concrete tower; 31.	F.W. auxiliary light illuminates shoal about 270 meters SSE.
6984 <i>M 5967</i>	-Simotu Ko Kamanosita, breakwater.	34° 07.1' N 135° 08.0' E	Oc.G. period 8s	43 13	5	White round concrete tower; 33.	
6988 <i>M 5966.8</i>	-Osaki Ura, breakwater.	34° 07.6' N 135° 08.1' E	Iso.R. period 4s	36 11	11	Red round concrete tower; 33.	
6992 <i>M 5967.2</i>	-Ushiga Kubi, breakwater.	34° 06.9' N 135° 08.4' E	Iso.R. period 4s	33 10	4	Red round concrete tower; 28.	
6996 <i>M 5967.3</i>	--W. breakwater, head.	34° 06.6' N 135° 08.4' E	Fl.R. period 3s	39 12	12	Red round concrete tower on square base; 31.	
KAINAN KU:							
7000 <i>M 5966</i>	-S. breakwater, head.	34° 08.5' N 135° 11.2' E	Fl.R. period 3s	39 12	11	Red round concrete tower; 31.	
7004 <i>M 5966.2</i>	-N. breakwater, head.	34° 08.6' N 135° 11.1' E	Fl.G. period 3s	36 11	11	White round concrete tower; 33.	
WAKAYAMA KU:							
7008 <i>M 5965.2</i>	-Wakanoura Wan, W. breakwater.	34° 10.9' N 135° 09.9' E	F.Fl.G. period 5s	43 13	F. 7 Fl 12	White round concrete tower; 32.	
7012 <i>M 5965.12</i>	-Outer breakwater, E. head.	34° 10.9' N 135° 09.2' E	Fl.G. period 3s	33 10	3	White tower; 16.	
7016 <i>M 5965.05</i>	-Saigasaki Ko, breakwater.	34° 11.0' N 135° 08.9' E	Fl.(2)G. period 8s	43 13	12	White tower; 30.	
7018 <i>M 5965</i>	-Saika Saki.	34° 11.1' N 135° 08.6' E	Fl.W. period 8s	246 75	22	White round concrete tower; 25.	
7024 <i>M 5962.4</i>	-Minami Ku Auxiliary, breakwater, head.	34° 12.6' N 135° 08.1' E	Fl.R. period 3s	16 5	5	Red metal column; 10.	
7028 <i>M 5963</i>	-S. breakwater, head.	34° 12.9' N 135° 08.1' E	Fl.(2)R. period 7s	43 13	6	Red tower; 43.	
7032 <i>M 5964</i>	-N. breakwater, head.	34° 13.0' N 135° 07.7' E	Fl.(2)G. period 7s	52 16	9	White tower; 43.	
7034 <i>M 5961.8</i>	-Kita Ku, N. breakwater, head.	34° 14.3' N 135° 07.1' E	Iso.G. period 6s	56 17	11	White round concrete tower; 55.	
7036 <i>M 5961.6</i>	--W. breakwater, head.	34° 14.1' N 135° 07.1' E	Iso.R. period 6s	53 16	5	Red round concrete tower; 56.	
7040 <i>M 5961</i>	Takura Saki.	34° 15.7' N 135° 03.9' E	Iso.W. period 6s	161 49	19	White round concrete tower; 36.	F.W. close NNW. illuminates rock 300 meters NNW.
7044 <i>M 5576</i>	I Shima.	33° 50.7' N 134° 48.9' E	Fl.W. period 10s	472 144	23	White square concrete tower; 72.	
7048 <i>M 5576.4</i>	Isima Ko, W. breakwater.	33° 50.6' N 134° 48.5' E	F.Fl.R. period 3s	46 14	F. 8 Fl 12	Red round concrete tower; 31.	
7052 <i>M 5577</i>	Kamoda Misaki.	33° 49.8' N 134° 45.1' E	Fl.W. period 3s	157 48	17	White round concrete tower; 36.	F.W. illuminates Sirika Bae 1200 meters SE.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SETO NAIKAI-EASTERN PART (I)							
7056 M 5575.6	-Karimata Saki.	33° 50.5' N 134° 43.3' E	Oc.(2)W. period 8s lt. 2s, ec. 1s lt. 2s, ec. 3s	72 22	14	White round concrete tower; 31.	
7060 M 5575.4	-Tatibana Ko.	33° 52.6' N 134° 40.4' E	Iso.W. period 6s	125 38	5	White tower; 33.	
7064 M 5575	-Funa Iso.	33° 53.3' N 134° 42.5' E	Fl.(2)W. period 5s	56 17	12	ISOLATED DANGER BRB, beacon, topmark; 46.	
7066 M 5572.5	Tomioka Ko.	33° 54.8' N 134° 42.3' E	Fl.G. period 5s	36 11	5	White tower; 18.	
7068 M 5574	Ao Sima.	33° 55.4' N 134° 43.2' E	Fl.(2)W. period 7s 2 fl. 3s, ec. 4s	190 58	17	White round concrete tower; 39.	
7072 M 5572	Tomioka Ko, Groin.	33° 55.3' N 134° 42.9' E	Fl.R. period 3s	39 12	9	Red round concrete tower; 28.	
7076 M 5571	Nakazima Ko, S. breakwater.	33° 57.3' N 134° 41.9' E	Fl.G. period 3s	39 12	7	White round concrete tower; 31.	
7078 M 5570.8	Awaimazu Ko, breakwater.	33° 58.3' N 134° 39.8' E	Fl.(2)G. period 6s	43 13	7	White concrete tower; 31.	
7080 M 5568	Wadano Hana, N. side of point.	34° 00.4' N 134° 38.3' E	Iso.W. period 6s	46 14	12	White square concrete tower; 36.	
7084 M 5555.4	Komatusima Ko, Offing, Wave Observation tower.	34° 02.4' N 134° 38.5' E	Mo.(U)W. period 8s	39 12	5	Metal framework tower.	Radar reflector.
7088 M 5555	Okame Se.	34° 02.3' N 134° 37.9' E	Fl.(2)W. period 5s	56 17	8	ISOLATED DANGER BRB, beacon, topmark; 54.	
KOMATSUSHIMA KO:							
7092 M 5564	-S. breakwater.	34° 00.4' N 134° 35.9' E	Iso.G. period 6s	33 10	5	White round concrete tower; 28.	
7096 M 5565	-Detached breakwater, S. head.	34° 00.3' N 134° 36.1' E	Iso.R. period 6s	29 9	10	Red round concrete tower; 28.	
7100 M 5565.4	--N. head	34° 00.8' N 134° 36.0' E	Fl.G. period 4s	39 12	10	White tower; 43.	F.W. illuminates N. breakwater head.
7104 M 5561	Komatsushima Ko.	34° 01.1' N 134° 35.7' E	Iso.W. period 8s	302 92	14	White round concrete tower; 39.	
7108 M 5562	-Taka Sone.	34° 01.1' N 134° 36.2' E	Mo.(A)R. period 8s	33 10	3	STARBOARD (B) R, beacon, topmark; 33.	
7112 M 5560	-Tuda, outer breakwater, E. head.	34° 02.8' N 134° 36.5' E	Fl.G. period 3s	43 13	7	White tower; 31.	
TOKUSHIMA KO:							
7116 M 5559	-Outer breakwater, S. head.	34° 02.3' N 134° 36.0' E	Fl.(3)R. period 12s	39 12	5	Red tower; 33.	
7118 M 5557	-Okinosu training wall, W. head.	34° 03.2' N 134° 35.6' E	Iso.R. period 4s	20 6	3	Red tower; 13.	
7120 M 5556	--E. head.	34° 03.0' N 134° 35.8' E	Fl.R. period 4s	36 11	3	Red tower; 31.	
7132 M 5554	Imagire Ko, N. traninig wall.	34° 06.2' N 134° 36.6' E	F.Fl.R. period 6s	36 11	F. 2 Fl 5	Red tower; 29.	
7136 M 5553	Tokusima AVIATION LIGHT.	34° 07.8' N 134° 36.1' E	Al.Fl.W.G. period 10s	89 27		Tower; 82.	
7140 M 5553.4	Awazu Ko, S. breakwater, head.	34° 08.3' N 134° 37.6' E	Iso.G. period 4s	43 13	12	White round concrete tower; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SETO NAIKAI-EASTERN PART (I)							
MUYANO SETO:							
7144 M 5551.8	-Oiso Saki.	34° 10.6' N 134° 38.6' E	Fl.(4)W. period 15s	125 38	17	White tower; 38.	
			F.W.			Same structure.	Illuminates white beacon on Okame Iso 600 meters E.
7146	Muya Ko.	34° 10.9' N 134° 38.5' E	Mo.(B)G. period 8s	16 5	3	PORT (B) G, beacon, topmark; 18.	
7148 M 5552	Naka Se.	34° 10.7' N 134° 37.8' E	Mo.(A)R. period 8s	36 11	7	STARBOARD (B) R, beacon, topmark; 33.	
7152 M 5552.4	-Muye Ko Range, front.	34° 10.7' N 134° 37.6' E	F.G.	36 11	11	White round concrete tower, red bands; 32.	
7156 M 5552.41	--Rear, 50 meters 253.7° from front.	34° 10.2' N 134° 37.5' E	F.G.	62 19	13	White round concrete tower, red bands; 59.	
7158 M 5552.5	Muya Ko, pier.	34° 10.7' N 134° 37.6' E	Fl.G. period 3s	24 7	6	White tower; 19.	
7160 M 5552.6	-Seto Ko, Donoura, W. breakwater, head.	34° 12.9' N 134° 35.5' E	Fl.G. period 3s	33 10	11	White round concrete tower; 32.	
7162 M 5552.55	-Kameura Ko, breakwater, head.	34° 13.0' N 134° 37.9' E	Fl.G. period 3s	30 9	3		
NARUTO KAIKYO:							
7164 M 5551.75	-Tobi Shima.	34° 13.9' N 134° 38.9' E	Fl.W. period 3s	105 32	7	White tower; 75.	
7168 M 5551.5	-Mago Saki.	34° 14.2' N 134° 38.8' E	Fl.W. period 5s	167 51	19	White square concrete tower; 36.	
7172 M 5811.4	To Saki.	34° 14.3' N 134° 39.8' E	Fl.(2)W. period 8s	192 59	20	White square concrete tower; 36.	
7176 M 5812	Turusima Hana.	34° 14.3' N 134° 42.2' E	Fl.W. period 3s	85 26	15	White round concrete tower; 31.	
7180 M 5814	Hukura Ko, on NE. part of Kemuri Shima.	34° 14.7' N 134° 42.7' E	Fl.G. period 3s	30 9	8	White round concrete tower; 28.	
7182 M 5814.2	-Breakwater, head.	34° 13.6' N 134° 42.3' E	Mo.(U)W. period 8s	23 7	7		
7183 M 5814.25	Nikoro Ko.	34° 11.3' N 134° 44.9' E	Fl.G. period 3s	39 12	8	White concrete structure; 31.	
7184 M 5570	Nu Sima.	34° 09.9' N 134° 49.9' E	Fl.W. period 10s	437 133	28	White round concrete structure; 39.	
7188 M 5570.2	-Nusima Ko, W. breakwater, head.	34° 10.0' N 134° 49.2' E	F.Fl.R. period 3s	36 11	F. 1 Fl 11	White tower; 28.	
7192 M 5570.5	-Tomari Ko, training wall, head.	34° 10.1' N 134° 49.3' E	Oc.R. period 8s lt. 6s, ec. 2s	46 14	12	Red tower; 32.	
7196 M 5814.3	Nada Ko, breakwater, head.	34° 11.7' N 134° 48.0' E	F.Fl.G. period 3s	43 13	F. 5 Fl 12	White tower; 28.	
7200 M 5960	Tomoga Shima.	34° 16.7' N 135° 00.3' E	Al.Fl.W.R. period 10s	197 60	20	White concrete tower; 39.	Visible 350° -232° . Reserve light range 16/13M.
7204 M 5959	Jinoshima, E. end.	34° 17.9' N 135° 03.5' E	Fl.(2)W. period 8s	184 56	5	White tower; 33.	
7206 M 5960.5	Kada Ko, outer breakwater.	34° 16.6' N 135° 04.2' E	Iso.R. period 6s	42 13	12	Red tower; 34.	
7208 M 5960.4	Kada Ko, S. breakwater.	34° 16.4' N 135° 04.4' E	Fl.R. period 3s	30 9	7	Red round concrete tower; 18.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SETO NAIKAI-EASTERN PART (I)							
OSAKA WAN:							
7212 <i>M 5958</i>	-Fuke Ko, W. breakwater, head.	34° 19.0' N 135° 08.7' E	Iso.R. period 4s	39 12	12	Red round concrete tower; 33.	
7224 <i>M 5958.2</i>	--E. breakwater.	34° 19.3' N 135° 08.5' E	Iso.G. period 4s	42 13	12	White round concrete tower; 33.	
7228	-Tannowa Ko, E. breakwater.	34° 20.1' N 135° 11.2' E	F.FI.R. period 5s	43 13	F. 6 FI 12	Red round concrete tower; 28.	
7229 <i>M 5957.8</i>	-Simosyo Ko, breakwater.	34° 20.5' N 135° 12.7' E	Fl.(2)R. period 6s	23 7	3	White tower; 16.	
7230	-Ozaki Ko, outer breakwater.	34° 21.5' N 135° 14.1' E	Fl.Y. period 4s	15 5	3	Tower; 9.	
7230.1	--SW. head.	34° 21.4' N 135° 14.0' E	Fl.Y. period 4s	15 5	3	Tower; 9.	
7230.3 <i>M 5957.69</i>	--S. detached breakwater, off N. head.	34° 21.4' N 135° 14.0' E	Fl.Y. period 4s	13 4	3		
7230.5	--S. head.	34° 21.3' N 135° 13.9' E	Fl.Y. period 4s	13 4	3		
7230.6 <i>M 5957.7</i>	--Breakwater, N. Head.	34° 22.0' N 135° 14.6' E	Fl.R. period 3s	36 11	10	Red tower; 28.	
7231	-Tarui, N. breakwater.	34° 22.8' N 135° 15.8' E	Fl.R. period 3s	27 8	4	Red tower; 21.	
7231.1	--S. breakwater.	34° 22.7' N 135° 15.7' E	Fl.G. period 3s	27 8	4	White tower; 20.	
7232	-Sumoto Offing buoy.	34° 21.1' N 135° 00.6' E	Mo.(A)W. period 8s			SAFE WATER RW, buoy, topmark.	
	-RACON		OE(- - - *)		5		
7233 <i>M 5957.61</i>	-Okada, S. breakwater.	34° 23.5' N 135° 16.4' E	Fl.R. period 3s	21 6	4		
7233.5 <i>M 5957.64</i>	--N. breakwater.	34° 23.6' N 135° 16.5' E	Fl.G. period 3s	22 7	4		
7234 <i>M 5957.5</i>	Sano Gyoko, detached breakwater, head.	34° 25.2' N 135° 19.1' E	Fl.R. period 4s	16 5	4	STARBOARD (B) R, beacon, topmark; 12.	
7235 <i>M 5957.52</i>	Hannon Ko, outer breakwater.	34° 25.4' N 135° 18.6' E	Fl.(2)R. period 5s	43 13	5	Red tower; 28.	
7236 <i>M 5957.4</i>	Sano Gyoko.	34° 25.4' N 135° 18.9' E	Fl.G. period 4s	43 13	3	White tower; 28.	
7238 <i>M 5957.65</i>	Kanku, N.	34° 26.7' N 135° 15.5' E	Iso.R. period 4s	49 15	13	Red tower; 43.	Mo.(U)W. 8s 8M mark towers 0.45 mile ESE. and 2.7 miles SW.
7239 <i>M 5957.6</i>	-Entrance, S. side.	34° 26.6' N 135° 15.6' E	Iso.G. period 4s	39 12	11	White tower; 32.	
7240 <i>M 5957.2</i>	-Hannan Ko, offing, breakwater.	34° 26.1' N 135° 19.1' E	Fl.(2)R. period 7s	52 16	7	Red tower; 52.	
7242 <i>M 5955.3</i>	--N. breakwater, head.	34° 28.5' N 135° 20.3' E	Fl.R. period 3s	43 13	10	Red tower; 29.	
7244 <i>M 5956.2</i>	--Offing breakwater, SW. head.	34° 27.7' N 135° 21.2' E	Fl.(2)G. period 6s	43 13	5	White tower; 33.	
7248 <i>M 5955.5</i>	--Detached breakwater, S. head.	34° 28.1' N 135° 20.9' E	Fl.G. period 3s	49 15	11	White round concrete tower; 36.	
7250 <i>M 5955.06</i>	---N., head.	34° 29.1' N 135° 21.5' E	Fl.R. period 4s	20 6	5	Red tower; 12.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SETO NAIKAI-EASTERN PART (I)							
7252 M 5956.4	--Kaizuka, breakwater, head.	34° 27.8' N 135° 21.1' E	Fl.(2)R. period 6s	33 10	6	Red tower; 22.	
7256 M 5956.25	--Kishiwada, W. breakwater	34° 28.1' N 135° 21.9' E	Fl.R. period 3s	27 8	4	Red round tower; 18.	
7260 M 5955	--W. breakwater, N.	34° 29.5' N 135° 22.0' E	Fl.(3)R. period 13s	52 16	7	Red tower; 52.	
7264 M 5955.04	---S. head.	34° 28.9' N 135° 21.9' E	Fl.G. period 4s	43 13	6	White tower; 36.	
7268 M 5955.2	--E. breakwater, head.	34° 29.4' N 135° 22.2' E	Fl.(3)G. period 13s	36 11	6	White round concrete tower; 33.	
7271 M 5954	--Approach.	34° 29.5' N 135° 20.9' E	Mo.(U)W. period 8s	52 16	12		Reserve light range 7M.
	--RACON		K(- • -)		7		
7271.9 M 5953.7	-Senboku, new wharf, N. corner.	34° 32.0' N 135° 22.7' E	Fl.R. period 4s	26 8	6	Red tower; 12.	
7271.95 M 5953.75	--SW. corner.	34° 30.8' N 135° 22.2' E	Fl.Y. period 4s	26 8	6	Yellow mast; 12.	
7272 M 5953.6	--NE. corner.	34° 31.8' N 135° 22.9' E	Fl.R. period 3s	59 18	7	Red round concrete tower; 52.	
7280 M 5953	--E. breakwater, head.	34° 31.3' N 135° 23.4' E	Fl.G. period 5s	40 12	11	White tower; 28.	
7284 M 5950	-Sakai Hamadera, N. breakwater.	34° 33.3' N 135° 24.7' E	Iso.G. period 6s	59 18	13	White round concrete tower; 46.	
7288 M 5951	--S. breakwater.	34° 33.1' N 135° 24.7' E	Iso.R. period 6s	59 18	13	Red round concrete tower; 52.	
7289 M 5952	---W. breakwater.	34° 33.4' N 135° 26.6' E	Fl.R. period 3s	23 7	4	Red tower; 12.	
7289.1 M 5952.1	---E. breakwater.	34° 33.4' N 135° 26.6' E	Fl.G. period 3s	23 7	4	White tower; 12.	
7292 M 5939.8	-Detached breakwater, S. head.	34° 35.7' N 135° 23.8' E	Fl.G. period 4s	46 14	5	White round concrete tower; 32.	
7296 M 5939.7	--N. head.	34° 36.3' N 135° 23.3' E	Iso.R. period 4s	72 22	5	Red tower; 62.	
7304 M 5940	-S. harbor, N. breakwater.	34° 36.5' N 135° 24.2' E	Iso.G. period 4s	49 15	12	White tower; 39.	
7308 M 5945	-S. harbor offing, breakwater.	34° 36.5' N 135° 25.4' E	Fl.(2)G. period 6s	39 12	11	White tower; 31.	
7310 M 5939.6	-Tower.	34° 36.7' N 135° 22.7' E	Mo.(U)W. period 8s	36 11	5		
7312 M 5939	-S. harbor Gaiko, N. breakwater.	34° 37.8' N 135° 23.8' E	Fl.(2)G. period 7s	69 21	10	White round concrete tower; 62.	
7316 M 5939.4	--Gaiko, S. breakwater.	34° 37.8' N 135° 23.4' E	Fl.(2)R. period 7s	69 21	10	Red round concrete tower; 62.	
7332 M 5906	-N. harbor, N. head.	34° 40.4' N 135° 24.1' E	Fl.(3)R. period 12s	33 10	5	Red tower; 28.	
7336 M 5907	--Middle breakwater, N. head.	34° 40.5' N 135° 24.3' E	Fl.R. period 4s	33 10	3	Red tower; 20.	
7344 M 5920	-N. harbor entrance, breakwater, head.	34° 39.1' N 135° 24.9' E	Iso.G. period 6s	43 13	5	White tower; 29.	
7348 M 5932	-Radar Tower.	34° 38.4' N 135° 22.9' E	Fl.W. period 5s	171 52	19	White concrete tower; 164.	Visible 331° -151° . Radar station.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SETO NAIKAI-EASTERN PART (I)							
7384 <i>M 5894</i>	-W. breakwater, head.	34° 40.9' N 135° 22.8' E	Fl.G. period 5s	33 10	8	White tower; 25.	
7398 <i>M 5899.5</i>	-Nisinomiya, breakwater, N.	34° 42.2' N 135° 20.5' E	Fl.G. period 3s	39 12	5	White tower; 33.	
7400 <i>M 5899</i>	--SE. breakwater.	34° 40.3' N 135° 21.6' E	Fl.G. period 5s	52 16	8	White tower; 52.	
7402 <i>M 5899.3</i>	--Naruohama breakwater.	34° 41.0' N 135° 21.9' E	Fl.(2)G. period 6s	39 12	8	White tower; 31.	
7404 <i>M 5886</i>	Ozekisyuzo.	34° 43.0' N 135° 20.9' E	F.G.	25 8	10	Black quadrangular structure; 22.	
7408 <i>M 5854</i>	-Naka.	34° 40.6' N 135° 11.5' E	Al.Fl.R.G. period 10s	177 54	19	White tower; 16.	Private aid.
7412 <i>M 5864.63</i>	-Beacon E.	34° 38.1' N 135° 15.5' E	Mo.(N)W. period 6s	21 6	6	SPECIAL Y, beacon, topmark.	
7414 <i>M 5865</i>	-Wave observation tower.	34° 38.9' N 135° 16.6' E	Mo.(U)W. period 10s	36 11	8		Radar reflector.
7415 <i>M 5865.51</i>	-Detatched breakwater, NW. head.	34° 38.9' N 135° 15.3' E	Fl.Y. period 4s	14 4	4		
7415.5 <i>M 5865.52</i>	--SE. head.	34° 38.9' N 135° 15.4' E	Fl.Y. period 4s	14 4	4		
7416 <i>M 5866</i>	-Breakwater No. 6, E. head.	34° 40.0' N 135° 14.9' E	Fl.G. period 3s	59 18	13	White round concrete tower; 62.	
7420 <i>M 5866.3</i>	--S. head.	34° 39.6' N 135° 15.2' E	Oc.G. period 4s	62 19	13	White tower; 62.	
7424 <i>M 5867</i>	-Breakwater No. 7, SW. head.	34° 40.1' N 135° 15.2' E	Fl.R. period 3s	66 20	7	Red round concrete tower; 62.	
7428 <i>M 5867.2</i>	--NE. head.	34° 40.6' N 135° 17.7' E	Fl.G. period 3s	66 20	7	White tower; 65.	
7430 <i>M 5899.2</i>	-Nisinomiya, breakwater, W. head.	34° 40.6' N 135° 18.8' E	Fl.R. period 3s	52 16	8	Red tower; 56.	
7436 <i>M 5870</i>	-Breakwater No. 5, E. head.	34° 41.1' N 135° 14.4' E	Fl.G. period 5s	52 16	3	White round concrete tower; 52.	
7440	-Range, front.	34° 42.0' N 135° 14.6' E	F.G.	72 22	6		
7440.5	--Rear, 150 meters 358° 00' from front.	34° 42.1' N 135° 14.6' E	F.G.	141 43	6		
7448 <i>M 5872</i>	-Breakwater No. 4, middle.	34° 41.4' N 135° 13.5' E	Fl.R. period 3s	62 19	7	Red square concrete tower; 15.	
7452 <i>M 5868</i>	-Breakwater No. 3, E. head.	34° 40.7' N 135° 13.5' E	Fl.(2)G. period 7s	56 17	13	White tower; 62.	
7456 <i>M 5862</i>	-Breakwater No. 2, S. head.	34° 39.4' N 135° 12.3' E	Oc.R. period 8s lt. 6s, ec. 2s	59 18	4	Red tower; 62.	
7460 <i>M 5861</i>	-S. breakwater No. 1, S. head.	34° 39.1' N 135° 12.3' E	Iso.G. period 4s	59 18	5	White tower; 59.	
7464 <i>M 5860</i>	-Breakwater No. 1, E. head.	34° 39.3' N 135° 12.1' E	Oc.G. period 8s lt. 6s, ec. 2s	62 19	4	White tower; 62.	
7470 <i>M 5860.3</i>	-Aeronautical runway, head.	34° 37.8' N 135° 12.0' E	Mo.(U)W. period 8s	39 12	5		Visible 327° -228°.
7471 <i>M 5860.2</i>	-Beacon W.	34° 37.8' N 135° 11.3' E	Mo.(N)W. period 6s	21 6	6	SPECIAL Y, beacon, topmark.	
7472 <i>M 5857</i>	-Wada, breakwater, head.	34° 39.2' N 135° 11.2' E	Iso.G. period 6s	39 12	12	White tower; 39.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SETO NAIKAI-EASTERN PART (I)							
7472.5 M 5857.5	-No. 1 breakwater, W. head.	34° 39.2' N 135° 11.4' E	Iso.R. period 6s	43 13	11	Red tower; 36.	
7476 M 5852	-Kobe.	34° 38.9' N 135° 10.1' E	Fl.W. period 8s	85 26	15	White round concrete tower; 95.	Visible 263° -083° .
7482 M 5848	-Minami Komaei, breakwater.	34° 38.8' N 135° 09.4' E	Fl.G. period 4s	46 14	6	White tower; 31.	
7488 M 5844	-Nagata, breakwater.	34° 38.7' N 135° 09.0' E	Iso.G. period 4s	39 12	6	White round tower; 35.	
7490	-E. oil terminal pier.	34° 38.4' N 135° 08.7' E	Mo.(U)W. period 8s	39 12	6		
7491 M 5843.2	-W. oil terminal pier.	34° 38.5' N 135° 08.5' E	Mo.(U)W. period 8s	23 7	7		
7492 M 5843	-Suma, offing, breakwater, E. head.	34° 38.4' N 135° 08.2' E	Fl.G. period 3s	33 10	5	White round concrete tower; 28.	
7494 M 5843.1	-Wakamiya, outer breakwater, head.	34° 38.2' N 135° 08.1' E	Fl.(2)G. period 6s	39 12	6	White tower; 22.	
7496 M 5842.4	-Outer Suma Tower.	34° 38.0' N 135° 06.3' E	Mo.(U)W. period 15s	62 19	7		
7500 M 5840	Hira Iso.	34° 37.3' N 135° 03.9' E	Q.(6)+L.Fl.W. period 15s	46 14	7	S. CARDINAL YB, beacon, topmark; 50.	
7504 M 5838.6	Tarumi Ko, S. breakwater, E. side.	34° 37.2' N 135° 03.5' E	Fl.G. period 3s	43 13	8	White round concrete tower; 39.	
7508 M 5838.7	-S. breakwater, W. side.	34° 37.3' N 135° 02.9' E	Fl.(2)R. period 6s	26 8	3	Red tower; 16.	
AWAJI SHIMA:							
7516 M 5814.6	-Oisino Hana.	34° 15.9' N 134° 57.2' E	Fl.W. period 5s	387 118	20	White round concrete tower; 33.	F. obstruction light illuminates reef close SE.
7520 M 5815	Taka Saki.	34° 16.6' N 134° 57.4' E	Oc.W. period 4s	92 28	13	White round concrete tower; 33.	
7524 M 5815.5	Naruyama Shima.	34° 17.3' N 134° 57.7' E	Q.(3)W. period 10s	62 19	10	E. CARDINAL BYB, beacon, topmark; 56.	
7528 M 5816	-Yura Ko, breakwater, head.	34° 17.9' N 134° 56.7' E	F.Fl.G. period 6s	37 11	F. 3 Fl 7	White tower; 28.	
7536 M 5818.4	-Sumoto Ko, outer harbor, S. breakwater.	34° 20.8' N 134° 54.2' E	F.Fl.(2)G. period 10s 2 fl. 3s, ec. 7s	42 13	F. 3 Fl 7	White round concrete tower; 33.	
7548 M 5819.5	--N. breakwater.	34° 21.0' N 134° 54.1' E	Fl.R. period 3s	46 14	5	Red tower; 33.	
7592 M 5821	--Takeno Kuchi, N. breakwater, head.	34° 21.1' N 134° 53.8' E	Fl.(2)R. period 6s	36 11	5	Red tower; 22.	
7596 M 5822	-Tuna Ko, Siota Kita, N. breakwater, head.	34° 24.6' N 134° 54.1' E	Fl.R. period 3s	21 6	3	Red tower; 16.	
7600 M 5822.12	--Sioto, S. breakwater, head.	34° 24.6' N 134° 54.2' E	F.Fl.(3)G. period 13s	39 12	F. 5 Fl 11	White round concrete tower; 28.	
7604 M 5822.16	--Shizuki, S. breakwater, head.	34° 25.9' N 134° 55.0' E	Fl.(2)G. period 7s	33 10	11	White tower; 28.	
7610 M 5822.22	Tsuna Ko, breakwater.	34° 25.8' N 134° 55.1' E	Fl.(2)R. period 6s	36 11	6	Red concrete structure; 28.	
7612 M 5822.3	-Ikuho Gyoko Higasi, E. breakwater.	34° 26.7' N 134° 55.6' E	Fl.G. period 3s	36 11	4	White tower; 28.	
7616 M 5822.4	-Sano Minami, S. breakwater.	34° 27.5' N 134° 56.4' E	Oc.G. period 4s	36 11	4	White round concrete tower; 29.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SETO NAIKAI-EASTERN PART (I)							
7618 M 5822.5	-Kamaguti Ko, breakwater.	34° 29.3' N 134° 58.0' E	Fl.G. period 5s	32 10	5	White concrete tower; 19.	
7620 M 5822.6	-Kariya Ko, S. breakwater.	34° 30.7' N 134° 59.3' E	Iso.G. period 6s	39 12	5	White tower; 28.	
7624 M 5822.8	--E. breakwater.	34° 30.8' N 134° 59.7' E	Fl.G. period 3s	43 13	8	White round concrete tower; 28.	
7626 M 5823	-Kariya Ko, breakwater, N. head.	34° 31.5' N 134° 59.7' E	Fl.(2)G. period 6s	30 9	3	White tower; 18.	
7628 M 5828	-Ura Ko, S. breakwater.	34° 32.6' N 134° 59.8' E	Iso.G. period 4s	36 11	5	White round concrete tower; 26.	
7632 M 5829	--N. breakwater, N. head.	34° 32.4' N 134° 59.9' E	F.R.	24 7	10	Red wooden tower; 19.	
7640 M 5834	-Iwaya Ko, inner breakwater, E. head.	34° 35.3' N 135° 01.3' E	Fl.R. period 4s	42 13	12	Red tower; 31.	
7644 M 5834.2	--W. breakwater.	34° 35.5' N 135° 01.1' E	Fl.G. period 3s	39 12	8	White tower; 32.	
7648 M 5796	-E. Saki.	34° 36.4' N 134° 59.6' E	Al.W.R. period 10s	161 49	19	White tower; 26.	Visible 061°-079° and 098° - 266°. Reserve light Q.W. 16M.
			F.R.				Visible 079°-098°.
7650 M 5836	Akashi Kaikyo Bridge, 2P, E.	34° 37.4' N 135° 01.6' E	F.Y.	39 12	9		Visible 165°-084°.
7650.5 M 5836.2	-W.	34° 37.5' N 135° 01.6' E	F.Y.	39 12	9		Visible 345°-264°.
7651 M 5836.4	-3P, E.	34° 36.6' N 135° 00.9' E	F.Y.	39 12	9		Visible 168°-081°.
7651.5 M 5836.6	-W.	34° 36.6' N 135° 00.9' E	F.Y.	39 12	9		Visible 348°-261°.
7651.6	-Center span of bridge.	34° 36.8' N 135° 01.4' E	F.W.	272 83	11		Visible 093°-159° and 273° - 339°. F.R. 7M, F.G. 12M mark channel limits.
HIGASHI-HARIMA KO:							
7652 M 5783	-Agashi Gaiko, outer harbor, S. breakwater.	34° 38.3' N 134° 59.6' E	F.Fl.R. period 5s	43 13	F. 6 Fl 12	Red tower; 29.	
7656 M 5785	--Outer Harbor, W. breakwater.	34° 38.5' N 134° 59.4' E	F.Fl.G. period 5s	36 11	F. 5 Fl 11	White tower; 29.	
7660 M 5784	-Akasi Ko.	34° 38.3' N 134° 59.5' E	Iso.R. period 6s	36 11	11	Red tower; 29.	
7664 M 5782.6	-W. outer harbor, W. breakwater.	34° 38.2' N 134° 59.1' E	Iso.G. period 6s	39 12	11	White tower; 29.	
7666 M 5782.8	-W. breakwater.	34° 38.4' N 134° 59.0' E	Fl.(2)G. period 6s	43 13	5	White tower; 32.	
7668 M 5782	-W. breakwater.	34° 38.6' N 134° 58.0' E	F.Fl.G. period 3s	39 12	F. 3 Fl 7	White round concrete tower; 28.	
7670	Akashi-Kaikyo, W. buoy.	34° 36.3' N 134° 56.9' E	Mo.(A)W. period 8s			SAFE WATER RW, pillar, topmark.	
	RACON		(- - - •)		5		
7672 M 5781	Eigishima Ko, W. breakwater.	34° 40.2' N 134° 54.8' E	F.Fl.G. period 7s	43 13	F. 5 Fl 11	White round concrete tower; 32.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SETO NAIKAI-EASTERN PART (I)							
HIGASI-HARIMA KO:							
7676	-Futami Ko.	34° 41.2' N 134° 53.3' E	Fl.G. period 3s	39 12	8	White tower; 29.	
7680 M 5774.4	-Beppu, E. breakwater, head.	34° 41.8' N 134° 50.2' E	Fl.R. period 3s	56 17	7	Red round concrete tower; 52.	
7684 M 5774	--W. breakwater, head.	34° 41.9' N 134° 49.9' E	Fl.G. period 3s	56 17	7	White round concrete tower; 52.	
7688 M 5776	-Behu, W. breakwater, head.	34° 42.7' N 134° 50.9' E	Fl.W. period 4s	30 9	10	White round concrete tower; 28.	
7692 M 5775	--Directional light 022° 20' .	34° 43.0' N 134° 50.9' E	Dir.F.W.R.G.	56 17	W. 11 R. 9 G. 9	White tower; 49.	R. 018° 50' -021° 20' , W.- 023° 20' , G.-025° 50' .
7700 M 5773	-Behu Nisiko, W. breakwater, head.	34° 42.6' N 134° 48.5' E	Fl.(2)G. period 7s 2 fl. 3s, ec. 4s	36 11	8	White tower; 28.	
7704 M 5772.5	Takasago Ko, E. breakwater.	34° 43.8' N 134° 47.9' E	Fl.(2)R. period 6s	43 13	5	Red round concrete tower; 33.	
7708 M 5772	-W. breakwater.	34° 43.8' N 134° 47.8' E	Oc.G. period 8s lt. 6s, ec. 2s	43 13	8	White round concrete tower; 33.	
7712 M 5771.6	--Nisiko, W. breakwater, head.	34° 44.2' N 134° 47.3' E	Fl.G. period 4s	39 12	11	White tower; 33.	
7716 M 5770	-Ibo Ko, entrance, W. side.	34° 44.7' N 134° 46.0' E	Iso.G. period 6s	43 13	12	White round concrete tower; 28.	
7720 M 5771	--E. breakwater.	34° 45.0' N 134° 46.1' E	Fl.(3)R. period 13s	33 10	5	Red tower; 28.	
7724 M 5769	Yagi Ko, W. breakwater.	34° 46.1' N 134° 43.5' E	Iso.G. period 6s	36 11	11	White round concrete tower on square base; 28.	
7726 M 5767	Mega Gyoko, breakwater, head.	34° 46.2' N 134° 42.4' E	Iso.R. period 4s	43 13	12	Red tower; 32.	
HIMEJI KO:							
7728 M 5766.3	-Mega Ko, E. breakwater.	34° 45.5' N 134° 41.2' E	Fl.R. period 4s	65 20	7	Red round concrete tower; 62.	
7732 M 5766	-W. breakwater, head.	34° 46.0' N 134° 40.9' E	Fl.G. period 3s	56 17	3	White round concrete tower; 52.	
7736 M 5766.5	-W. breakwater, SE. head.	34° 45.4' N 134° 41.0' E	Fl.G. period 3s	65 20	4	White tower; 65.	
7740 M 5764.6	-Sikama Ko, E. breakwater.	34° 45.6' N 134° 39.3' E	Fl.(2)R. period 6s 2 fl. 2s, ec. 4s	49 15	10	Red round concrete tower; 46.	
SIKAMA KO:							
7744 M 5764.8	--W. breakwater, SE. head.	34° 45.7' N 134° 39.0' E	Fl.(2)G. period 6s	49 15	10	White round concrete tower; 46.	
7748 M 5764	--E. breakwater No. 2.	34° 46.4' N 134° 39.5' E	Fl.R. period 3s	43 13	3	Red round concrete tower; 33.	
7752 M 5762	Hirohata, E. breakwater.	34° 45.8' N 134° 37.7' E	Fl.R. period 3s	56 17	7	Red round metal tower; 56.	
7756 M 5763.5	-Range No. 2, front.	34° 47.1' N 134° 37.8' E	F.R.	98 30	7	White metal framework tower, white triangular daymark; 92.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SETO NAIKAI-EASTERN PART (I)							
7760 M 5763.6	--Rear, 510 meters 000° from front.	34° 47.4' N 134° 37.8' E	F.R.	154 47	7	White metal framework tower, white triangular daymark; 148.	
7764 M 5761	Abosi Ko.	34° 46.1' N 134° 36.4' E	Fl.G. period 4s	36 11	10	White round concrete tower; 28.	
7768 M 5760	-W.	34° 45.7' N 134° 35.2' E	Fl.(2)G. period 5s	33 10	4	White tower; 24.	
7772 M 5759.7	Himezi Ko, E. breakwater.	34° 45.3' N 134° 34.4' E	Iso.R. period 6s	39 12	11	Red round concrete tower; 31.	
7776 M 5759.6	-Naka, W. breakwater.	34° 45.2' N 134° 34.1' E	Iso.G. period 6s	42 13	12	White round concrete tower; 33.	
7780 M 5756.7	Iwami Ko.	34° 46.8' N 134° 31.7' E	F.Fl.R. period 3s	39 12	F 3 Fl 7	Red round concrete structure; 31.	
7784 M 5756.8	Murotsu Ko, S.	34° 46.1' N 134° 30.0' E	Fl.R. period 3s	36 11	7	Red round concrete structure; 28.	
7788	Kazura Sima.	34° 44.7' N 134° 28.0' E	Fl.(3)W. period 13s	173 53	17	White round concrete tower; 42.	
7790 M 5763.3	Sakosi Ko.	34° 45.8' N 134° 27.4' E	Fl.G. period 3s	24 7	5	White tower; 18.	
7792 M 5756.6	Aioi Ko Range, front.	34° 47.3' N 134° 27.8' E	F.R.	308 94	5		
7796 M 5756.61	--Rear, 120 meters 350° 30' from front.	34° 47.3' N 134° 27.8' E	F.R.	348 106	5		
7800 M 5755.6	Ako Misaki.	34° 43.6' N 134° 24.7' E	Fl.W. period 10s	276 84	23	White octagonal concrete tower; 52.	
7804 M 5756	Ako.	34° 43.2' N 134° 24.6' E	Q.(6)+L.Fl.W. period 15s	28 9	9	S. CARDINAL YB, beacon, topmark; 23.	
7806 M 5756.1	-Ako Ko, breakwater, W. head.	34° 43.9' N 134° 22.4' E	Fl.R. period 4s	28 9	6	Red tower, 18.	
7808 M 5756.2	-Range, front.	34° 44.7' N 134° 22.0' E	F.G.	67 20	13	Metal post, red and white band; 59.	
7812 M 5756.21	--Rear, about 575 meters 360° from front.	34° 44.8' N 134° 22.0' E	F.G.	89 27	13	Metal post, red and white band; 72.	
7816 M 5755.3	Unoisi Hana.	34° 42.0' N 134° 20.6' E	Fl.(3)W. period 14s 3 fl. 4s, ec. 10s	79 24	12	White round concrete tower; 28.	
7820 M 5755	Hinase Ko.	34° 43.3' N 134° 16.4' E	Fl.R. period 3s	39 12	9	Red tower; 28.	
7822 M 5754.7	Otabu Ko.	34° 41.0' N 134° 18.0' E	Fl.G. period 3s	24 7	5	White tower; 20.	
7824 M 5754.5	Kasirazima Ko.	34° 41.8' N 134° 17.0' E	Oc.R. period 4s	23 7	7	Red tower; 18.	
7826 M 5754.85	Otabu Sima.	34° 40.6' N 134° 17.9' E	Iso.W. period 6s	102 31	16	White tower; 36.	
7828 M 5754	Takagono Syo.	34° 42.8' N 134° 13.2' E	Fl.(2)W. period 5s	36 11	9	ISOLATED DANGER BRB, beacon, topmark.	
7832 M 5753.3	Musige Ko.	34° 40.8' N 134° 13.4' E	F.Fl.G. period 4s	36 11	F 5 Fl 11	White square structure; 31.	
7836 M 5753	-No. 1 breakwater.	34° 40.8' N 134° 13.0' E	Iso.G. period 6s	36 11	11	White round concrete tower; 33.	
7840 M 5752.4	Kami-Ikada.	34° 38.0' N 134° 12.4' E	Mo.(A)G. period 8s	32 10	5	PORT (B) G, beacon, topmark.	
7844 M 5752.2	Ki Sima.	34° 35.6' N 134° 12.1' E	Fl.W. period 4s	56 17	13	White round concrete structure; 39.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SETO NAIKAI-EASTERN PART (I)							
7848 M 5751.8	Usimado Ko.	34° 36.6' N 134° 10.6' E	F.F.I.W. period 3s	43 13	F. 8 Fl. 12	White round concrete structure; 36.	
7852 M 5752	-Breakwater, E. head.	34° 36.7' N 134° 10.0' E	Fl.G. period 3s	39 12	5	White round concrete tower; 32.	
HARIMA NADA, NORTH PASSAGE:							
7856 M 5751.6	-Yomogi Saki.	34° 35.8' N 134° 08.5' E	Fl.W. period 5s	32 10	11	White round tower; 27.	
7860 M 5768	Kami Shima.	34° 41.2' N 134° 42.8' E	Fl.(2)W. period 8s 2 fl. 3s, ec. 5s	197 60	12	White hexagonal metal framework structure; 46.	
7864 M 5758.4	Kurakake Sima.	34° 41.2' N 134° 38.2' E	Fl.(4)W. period 16s 4 fl. 8s, ec. 8s	220 67	10	Round concrete tower, red and white bands; 52.	
7868 M 5758	Tanga Sima.	34° 39.5' N 134° 35.0' E	Fl.W. period 6s	249 76	12	White tower; 39.	
7872 M 5757.8	Iesima Ko, E. breakwater, head.	34° 40.8' N 134° 32.1' E	Fl.G. period 3s	36 11	7	White round concrete structure; 31.	
7876 M 5757.9	-N. breakwater, E. head.	34° 41.0' N 134° 32.5' E	Fl.R. period 3s	28 8	4	Red tower; 18.	
7880 M 5757.6	Osaki Hana.	34° 41.1' N 134° 32.2' E	Iso.W. period 6s	230 70	13	White round concrete tower, square base; 28.	R. light marks head of breakwater close ESE.
7880.5 M 5757.41	-Breakwater, head.	34° 39.9' N 134° 31.4' E	Fl.(2)G. period 6s	30 9	4	White tower; 18.	
7882	Boze Shima, N. head.	34° 39.5' N 134° 31.1' E	Fl.G. period 3s	30 9	3	White tower; 18.	
7884 M 5757.4	Boze Ko, breakwater, head.	34° 39.2' N 134° 30.6' E	F.Fl.G. period 4s	43 13	F. 3 Fl. 7	White round concrete structure; 31.	
7885 M 5757.45	Boze Ko, W. breakwater.	34° 39.2' N 134° 30.4' E	Fl.R. period 3s	24 7	4	Red tower; 19.	
7886 M 5757.5	Boze Sima.	34° 38.9' N 134° 31.2' E	Fl.(2)G. period 7s	33 10	4	White tower; 30.	
7888 M 5757.3	Inge Sima.	34° 39.1' N 134° 26.1' E	Fl.(2)W. period 10s 2 fl. 3s, ec. 7s	240 73	7	White tower; 36.	
7892 M 5757	Matu Sima.	34° 35.6' N 134° 28.6' E	Fl.W. period 3s	167 51	11	White round concrete structure; 29.	
7896 M 5548	Okado Hana.	34° 26.0' N 134° 20.2' E	Fl.W. period 3s	209 64	21	White tower; 43.	Visible 209° -116° . Partially obscured by Funoko Shima.
7900 M 5547.8	Sanuki Tatibana Ko.	34° 29.3' N 134° 20.7' E	Fl.R. period 3s	33 10	5	Red tower; 19.	
7904 M 5547.55	Oiso.	34° 33.4' N 134° 23.1' E	Fl.(2)W. period 5s	49 15	5	ISOLATED DANGER BRB, beacon, topmark; 39.	
7908 M 5547.6	Fukuda Ko, N. breakwater.	34° 32.6' N 134° 21.0' E	F.Fl.R. period 5s	36 11	F. 3 Fl. 7	Red tower; 28.	
7912 M 5547.5	Obe Ko, breakwater.	34° 32.9' N 134° 17.0' E	Fl.G. period 3s	43 13	7	White round concrete tower; 32.	
7916 M 5547	Sanuki Chiburi Shima.	34° 31.8' N 134° 09.7' E	Fl.(2)W. period 7s	72 22	7	White tower; 27.	
7920 M 5547.4	Shikai Ko, breakwater No. 12.	34° 31.0' N 134° 09.8' E	Oc.G. period 4s	36 11	9	White round concrete tower; 28.	
7922 M 5549.3	Ojima Ko.	34° 28.7' N 134° 11.5' E	Fl.G. period 5s	23 7	2	White tower; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SETO NAIKAI-EASTERN PART (I)							
7924 M 5549.2	Ikeda Ko, breakwater, head.	34° 28.7' N 134° 13.6' E	Fl.G. period 3s	36 11	5	White round concrete structure; 27.	
7928 M 5549	Zizo Saki.	34° 25.0' N 134° 14.1' E	Fl.(2)W. period 7s	220 67	12	White tower; 42.	Visible 259° -113° .
	RACON		Y(- • - -)		9		Azimuth coverage 259° - 114° .
7936 M 5797	-Tosima Ko, N. breakwater.	34° 33.1' N 134° 56.0' E	Iso.R. period 4s	43 13	5	Red round concrete tower; 32.	
7940 M 5798.4	-Asano Ko, N. breakwater.	34° 32.1' N 134° 54.7' E	Iso.R. period 6s	39 12	11	Red round concrete tower; 28.	
7944 M 5798.6	-Ikuha Ko, W. breakwater.	34° 31.9' N 134° 53.7' E	Fl.R. period 5s	39 12	3	Red tower; 28.	
7946 M 5798.8	Ikuha Ko.	34° 31.9' N 134° 53.6' E	Fl.R. period 3s	30 9	5	Red tower; 18.	
7948 M 5799	-Awaji Murotsu Ko, W. breakwater.	34° 31.5' N 134° 52.7' E	F.Fl.R. period 7s	43 13	F 2 Fl 5	Red round concrete tower; 29.	
7952 M 5800	-Gunge Ko, W. breakwater, head.	34° 28.4' N 134° 50.8' E	F.Fl.R. period 3s	39 12	F 6 Fl 11	Red round concrete structure; 28.	
7956 M 5799.5	-Ozaki Ko.	34° 29.9' N 134° 51.5' E	Iso.R. period 4s	39 12	4	Red round concrete structure; 29.	
7960 M 5802	-Ei Ko, W. breakwater, head.	34° 28.0' N 134° 49.9' E	Iso.R. period 6s	33 10	7	Red round concrete tower; 22.	
7962	-Harima Nada Light Buoy 4.	34° 30.1' N 134° 38.7' E	Mo.(A)W. period 8s			SAFE WATER RW, pillar, topmark.	
	-RACON		K(- • -)				
7964 M 5803	-Awazi Yamada Ko.	34° 26.8' N 134° 48.2' E	Oc.R. period 4s	28 9	7	Red tower; 19.	
JAPAN-SETO NAIKAI-EASTERN PART (II)							
7968 M 5804	-Tusi Ko, breakwater, head.	34° 24.9' N 134° 46.8' E	Fl.R. period 4s	43 13	12	Red tower; 32.	
7972 M 5806	-Torikai Ko, breakwater.	34° 22.4' N 134° 44.8' E	Iso.G. period 4s	39 12	8	White tower; 31.	
7976 M 5809.2	-Minato Ko, E. breakwater, head.	34° 19.8' N 134° 43.7' E	Fl.(2)G. period 7s	36 11	11	White tower; 31.	
7980 M 5809	--W. breakwater.	34° 19.8' N 134° 43.6' E	Fl.(2)R. period 7s	39 12	11	Red round concrete structure; 31.	
7984 M 5811	-Muruyama Ko, W. breakwater, head.	34° 17.3' N 134° 39.7' E	Iso.W. period 4s	36 11	11	White round concrete tower; 28.	
7986	Ibi Ko.	34° 15.3' N 134° 40.4' E	Fl.R. period 3s	24 7	3	Red tower; 16.	
7988 M 5551.3	Kameura Ko.	34° 13.8' N 134° 37.6' E	Fl.R. period 5s	39 12	9	Red tower; 32.	
7988.5 M 5551.6	-W. breakwater, head.	34° 14.1' N 134° 38.1' E	Fl.G. period 3s	28 8	3	White tower; 16.	
7994 M 5551	Kitadomari.	34° 14.2' N 134° 35.5' E	Fl.R. period 4s	36 11	11	Red tower; 28.	
7996 M 5550.9	Awata Ko, breakwater.	34° 13.3' N 134° 33.0' E	Fl.R. period 3s	46 14	12	Red tower; 33.	
8000 M 5550.85	Awa Oura.	34° 13.4' N 134° 31.6' E	Fl.(2)R. period 6s	33 10	6	Red tower; 21.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SETO NAIKAI-EASTERN PART (II)							
8004 M 5550.8	Orino Ko, breakwater.	34° 12.7' N 134° 28.9' E	Fl.G. period 3s	43 13	12	White round concrete structure; 28.	
8008 M 5550.5	Hiketa Hana.	34° 14.0' N 134° 24.7' E	Iso.W. period 6s	246 75	12	White round concrete tower; 26.	
8012 M 5550.7	Hiketa Ko.	34° 13.8' N 134° 24.5' E	Fl.G. period 5s	33 10	3	White round concrete tower; 28.	
8016 M 5550.6	-Breakwater.	34° 13.5' N 134° 24.6' E	Iso.R. period 6s	39 12	4	Red round concrete structure; 27.	
8024 M 5550.2	Sanbonmatu Ko, W. breakwater.	34° 15.4' N 134° 20.5' E	Fl.(2)R. period 6s	43 13	7	Red round concrete structure; 36.	
8028 M 5550.3	-Detached breakwater, NW. head.	34° 15.3' N 134° 20.8' E	Fl.G. period 3s	36 11	5	White round concrete structure on square base; 28.	
8030 M 5549.7	Wakimoto Ko.	34° 17.0' N 134° 16.6' E	Fl.R. period 3s	32 10	4	Red tower; 19.	
8031 M 5550	Tuda Ko, breakwater, head.	34° 17.8' N 134° 15.2' E	Iso.R. period 6s	36 11	9	Red concrete tower; 28.	
8031.5 M 5549.95	Tuda Wan, breakwater.	34° 19.1' N 134° 15.7' E	Fl.(2)R. period 6s	26 8	3	Red tower; 16.	
8032 M 5549.6	Umaga Hana.	34° 20.9' N 134° 15.2' E	Fl.W. period 10s	187 57	20	White quadrangular concrete tower; 36.	Visible 073° -309°.
8033 M 5549.5	Oda Wan, breakwater, head.	34° 20.3' N 134° 14.1' E	Fl.G. period 3s	23 7	2	White tower; 16.	
8034 M 5549.55	Okushi Saki.	34° 22.2' N 134° 12.7' E	Mo.(A)R. period 8s	25 8	4	STARBOARD (B) R, beacon, topmark; 18.	
8036 M 5751.4	Inusima Siroisi.	34° 33.6' N 134° 07.0' E	Q.(3)W. period 10s	33 10	9	E. CARDINAL BYB, beacon, topmark.	
8038 M 5751.5	Asahi Ko.	34° 34.9' N 134° 06.3' E	Fl.R. period 5s	26 8	6	Red tower; 18.	
8040 M 5748.6	Kome Saki.	34° 34.4' N 134° 03.0' E	Iso.W. period 6s	82 25	15	White round concrete tower; 33.	
8044 M 5750	Bisyago Iwa.	34° 36.3' N 134° 02.5' E	Mo.(A)G. period 8s	33 10	5	PORT (B) G, beacon, topmark; 26.	
8048 M 5749	Saidaizi Ko.	34° 36.1' N 134° 02.0' E	Iso.R. period 6s	42 13	12	Red round concrete pillar; 31.	
8052 M 5751	Tubusi Syo.	34° 35.6' N 134° 01.0' E	Mo.(A)R. period 8s	36 11	7	STARBOARD (B) R, beacon, topmark.	
8056 M 5751.2	Okayama Ko, W. breakwater.	34° 35.6' N 133° 57.4' E	Iso.G. period 4s	33 10	11	White round concrete tower; 28.	
8058 M 5748.5	-Breakwater, W. head.	34° 29.5' N 134° 05.8' E	Fl.G. period 3s	28 9	3	White tower; 18.	
8060 M 5748.3	Ieura Ko.	34° 29.5' N 134° 03.5' E	Fl.(2)G. period 6s	39 12	6	White tower; 28.	
8064 M 5747.6	Kurakake Hana.	34° 28.8' N 134° 01.3' E	Iso.W. period 6s	187 57	14	White round concrete tower; 36.	
8070 M 5748	Ohirushima.	34° 30.7' N 134° 01.0' E	Fl.W. period 5s	121 37	7	White metal tower; 49.	
8072 M 5741.7	Desaki Uchi.	34° 30.9' N 133° 58.0' E	Mo.(D)Y. period 8s	17 5	5	SPECIAL Y, beacon, topmark; 18.	
8074 M 5747	Kyonojoro Shima.	34° 29.3' N 133° 59.0' E	Fl.W. period 4s	39 12	5	White round concrete tower; 18.	
8078 M 5743	Tera Shima.	34° 28.9' N 133° 58.4' E	Fl.W. period 3s	33 10	5	White tower; 29.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SETO NAIKAI-EASTERN PART (II)							
8082 M 5740	Uno Ko.	34° 28.4' N 133° 56.9' E	Fl.W. period 3s	36 11	5	White tower; 30.	Visible 311° -219° .
8086 M 5739	Kazura Shima.	34° 28.1' N 133° 57.5' E	Fl.(2)W. period 6s	76 23	5	White tower; 36.	
8088	Honmura.	34° 27.6' N 134° 00.0' E	Fl.G. period 3s	26 8	5		
8088.5	Naoshima-ko.	34° 27.3' N 134° 00.2' E	Iso.G. period 4s	26 8	4		
8090 M 5744	Miyanoura Ko.	34° 27.4' N 133° 58.2' E	Fl.(2)R. period 6s	39 12	5	Red tower; 28.	
8094 M 5746	Manaitaishi.	34° 26.8' N 133° 58.1' E	Mo.(A)G. period 8s	43 13	5	PORT (B) G, beacon, topmark; 36.	
8098 M 5738	Inumodori Hana.	34° 27.3' N 133° 56.8' E	Mo.(D)G. period 13s	43 13	7	PORT (B) G, beacon, topmark; 28.	
8102 M 5737.7	Hibi Ko, E. breakwater.	34° 27.2' N 133° 55.8' E	Fl.R. period 3s	43 13	3	Red round concrete tower; 31.	
8106 M 5737.8	W. breakwater No. 3.	34° 27.1' N 133° 55.8' E	Fl.G. period 3s	39 12	11	White tower; 32.	
8110 M 5737.5	Kotoura Ko, E. breakwater.	34° 28.2' N 133° 50.1' E	Iso.R. period 6s	36 11	9	Red tower; 28.	
8114 M 5737	Kusumi Hana.	34° 25.7' N 133° 49.2' E	Mo.(A)G. period 11s	39 12	9	PORT (B) G, beacon, topmark; 33.	
8118 M 5735	Shimotsui Ko.	34° 26.3' N 133° 47.5' E	F.Fl.(2)R. period 8s 2 fl. 3s, ec. 5s	32 10	F. 3 Fl 7	Red round concrete tower; 28.	
8119 M 5549.9	Shirakata Ko, breakwater.	34° 20.7' N 134° 11.6' E	Iso.G. period 6s	27 8	5	White tower; 19.	
8120 M 5546.8	Sido Ko, breakwater, E.	34° 19.5' N 134° 10.6' E	Iso.R. period 4s	36 11	9	Red round concrete structure; 29.	
8124 M 5546.5	Mure Ko, breakwater.	34° 20.6' N 134° 09.4' E	Oc.R. period 5s lt. 4s, ec. 1s	36 11	9	Red quadrangular concrete tower; 32.	
8128 M 5545.6	Inagi Shima.	34° 24.6' N 134° 08.3' E	Fl.W. period 3s	109 33	11	White tower; 39.	F.W. located 223° 40' 2,240 meters from light. Illuminates Siraisi Suo about 280 meters W.
8132 M 5546	Kanawa Iwa.	34° 25.3' N 134° 07.8' E	Mo.(A)R. period 8s	46 14	7	STARBOARD (B) R, beacon, topmark; 38.	
8136 M 5545	Aji Ko, breakwater.	34° 23.2' N 134° 07.4' E	Iso.R. period 4s	39 12	8	Red tower; 31.	
8144 M 5538	Ogi Sima.	34° 25.8' N 134° 03.8' E	Fl.W.R.G. period 10s	52 16	12	White round granite tower; 46.	G. 052° -073° , W.-081° , R.- 092° , W.-280° .
8150 M 5538.7	-Ogi Gyoko.	34° 25.1' N 134° 03.4' E	Fl.R. period 3s	26 8	4	Red tower; 19.	
8152 M 5538.6	--Outer breakwater.	34° 25.2' N 134° 03.2' E	Oc.G. period 4s lt. 3s, ec. 1s	33 10	5	White tower; 28.	
8155 M 5539.25	Megi Shima, E. breakwater.	34° 23.3' N 134° 03.2' E	Fl.G. period 3s	25 8	4	White tower; 10.	
8156 M 5539.2	-W. breakwater.	34° 23.3' N 134° 03.1' E	Iso.R. period 4s	39 12	4	Red tower; 30.	
8160 M 5539	-Hotsuchi Hana.	34° 22.8' N 134° 02.3' E	Iso.W. period 6s	151 46	14	White tower; 32.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SETO NAIKAI-EASTERN PART (II)							
TAKAMATSU KO:							
8164 M 5540.8	-Detached breakwater, NE. head.	34° 22.0' N 134° 03.7' E	Oc.R. period 8s	52 16	11	Red round tower; 46.	
8168 M 5540.9	--SW.	34° 21.7' N 134° 03.3' E	Iso.G. period 6s	42 13	5	White tower; 33.	
8172 M 5541	-Asahimachi, breakwater, head.	34° 21.6' N 134° 03.5' E	Fl.(2)R. period 6s	39 12	3	Red tower; 30.	
8176 M 5541.6	-Breakwater, N. head.	34° 21.5' N 134° 03.3' E	Iso.R. period 6s	56 17	13	Red tower; 46.	
8181 M 5732.17	-Aosa Hana, breakwater.	34° 27.9' N 133° 33.5' E	Fl.R. period 3s	31 9	4	Red tower; 19.	
8188 M 5542.12	-E. breakwater.	34° 21.2' N 134° 03.5' E	Fl.G. period 3s	39 12	11	White round concrete structure; 31.	
8196 M 5540.6	-Breakwater No. 8.	34° 21.0' N 134° 02.2' E	Oc.R. period 4s	36 11	11	Red round concrete structure; 32.	
8204 M 5540	Tsuruuchi Ko, E. breakwater.	34° 21.4' N 134° 01.1' E	Fl.(2)G. period 6s	36 11	3	White tower; 30.	
8205 M 5539.6	-Kagawaken.	34° 21.4' N 134° 00.2' E	Fl.R. period 3s	26 8	6	Red tower; 11.	
8206 M 5539.5	-Kozai Ko, breakwater, head.	34° 21.2' N 134° 00.2' E	Oc.R. period 5s lt. 4s, ec. 1s	36 11	11	Red round concrete tower; 30.	
8208 M 5536	Kozuti Sima.	34° 23.6' N 133° 55.5' E	Iso.W. period 6s	49 15	12	White round concrete structure; 42.	
8212 M 5535	Kosei Sima.	34° 22.2' N 133° 51.3' E	Fl.W. period 3s	89 27	15	White round concrete structure; 39.	
8216 M 5533	Nabe Shima.	34° 22.9' N 133° 49.4' E	Al.R.G. period 16s	95 29	11	White round stone tower; 32.	Visible 191° -091° .
8220 M 5534	Yoshima Ko, breakwater No. 3.	34° 23.0' N 133° 49.5' E	Iso.G. period 6s	39 12	5	White tower; 28.	
8228 M 5507	Honshima Ko, W. breakwater.	34° 22.9' N 133° 47.1' E	Fl.G. period 5s	39 12	7	White round concrete tower; 29.	
8232 M 5506	Usi Shima.	34° 22.0' N 133° 46.8' E	Mo.(D)R. period 10s	46 14	7	STARBOARD (B) R, tower, topmark; 43.	Visible 048° -301° .
8236 M 5504.5	Enoura Ko.	34° 21.6' N 133° 43.1' E	Iso.G. period 6s	43 13	5	White tower; 31.	
8240 M 5504	Habushi Iwa.	34° 20.7' N 133° 42.8' E	Fl.(2)W. period 5s	49 15	9	ISOLATED DANGER BRB, tower, topmark; 43.	
RACON			OE(--- *)		5		
8244 M 5503.5	Takami Ko.	34° 18.5' N 133° 40.9' E	Fl.(3)G. period 12s	39 12	7	White round concrete structure; 31.	
8248 M 5503	Itamochi Hana.	34° 19.5' N 133° 39.8' E	Oc.W. period 4s	36 11	11	White round concrete tower; 27.	
8252 M 5502	Futaomote Shima.	34° 18.1' N 133° 37.3' E	Fl.W. period 3s	95 29	7	White tower; 33.	
8256 M 5734	Mukuchi Shima.	34° 25.9' N 133° 45.6' E	Q.W.	43 13	5	N. CARDINAL BY, beacon, topmark; 33.	
8260 M 5505	Aoki Ko, breakwater No. 1.	34° 22.0' N 133° 41.2' E	Fl.R. period 3s	39 12	7	Red round concrete tower; 28.	
8264 M 5502.5	Sanagi Ko, N. breakwater, S. head.	34° 20.8' N 133° 37.6' E	F.Fl.R. period 4s	39 12	F. 6 Fl 11	Red round concrete structure; 28.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SETO NAIKAI-EASTERN PART (II)							
8268 <i>M 5502.7</i>	-S. breakwater, N. head.	34° 20.1' N 133° 37.8' E	Oc.G. period 4s lt. 3s, ec. 1s	30 9	5	White tower; 18.	
8272 <i>M 5733</i>	Mizushima Ko, breakwater.	34° 28.1' N 133° 44.0' E	Fl.(2)G. period 5s	42 13	5	White tower; 32.	
8274 <i>M 5732.2</i>	Otosima Ko, breakwater.	34° 31.2' N 133° 41.6' E	Iso.R. period 4s	39 12	11	Red round concrete tower; 30.	
8276 <i>M 5732.7</i>	-Hachiman, breakwater, S. head.	34° 30.6' N 133° 40.1' E	Fl.G. period 4s	30 9	5	White square metal framework; 24.	
8280 <i>M 5732.3</i>	-Tamashima, outer breakwater.	34° 29.8' N 133° 39.8' E	Fl.G. period 3s	39 12	6	White round concrete tower; 29.	
8282 <i>M 5732.23</i>	-Sami Gyoko.	34° 30.1' N 133° 38.4' E	Fl.R. period 3s	28 9	4	Red tower; 19.	
8283 <i>M 5732.19</i>	Yorishima Ko.	34° 29.3' N 133° 35.7' E	Fl.(2)R. period 6s	25 8	4	Red tower; 17.	
8284 <i>M 5732.15</i>	Manabeshima Ko.	34° 21.4' N 133° 34.8' E	Fl.R. period 3s	43 13	3	Red tower; 31.	
8288 <i>M 5732.04</i>	Kitagishima Ko.	34° 22.7' N 133° 32.9' E	Fl.(2)R. period 6s	42 13	5	Red tower; 30.	
8292 <i>M 5732.08</i>	Toyoura Ko, breakwater, head.	34° 23.8' N 133° 32.1' E	Oc.R. period 4s lt. 3s, ec. 1s	26 8	5	Red tower; 18.	
8294 <i>M 5732.11</i>	Kanafuro Ko, breakwater.	34° 23.5' N 133° 31.6' E	Fl.G. period 3s	31 9	3	White tower; 18.	
8296 <i>M 5732.02</i>	Shiraishishima Ko.	34° 24.7' N 133° 31.1' E	Fl.R. period 5s	40 12	3	Red tower; 28.	
8300 <i>M 5732</i>	Okinoshiraishi.	34° 25.0' N 133° 30.8' E	Fl.W. period 3s	46 14	5	White tower; 39.	
8304 <i>M 5731.9</i>	Hyakken Zowai.	34° 25.3' N 133° 29.7' E	Mo.(A)G. period 8s	43 13	5	PORT (B) G, tower, topmark; 33.	
8306 <i>M 5731.85</i>	Bittyu Takasima Ko.	34° 25.7' N 133° 30.4' E	Iso.G. period 6s	26 8	6	White tower; 19.	
8308 <i>M 5731.8</i>	Konoshimasoto Ko.	34° 26.9' N 133° 30.6' E	Fl.R. period 3s	31 9	5	Red tower; 18.	
8310 <i>M 5507.5</i>	Kamishinden Ko, breakwater, S. head.	34° 16.6' N 133° 39.3' E	Fl.R. period 6s	24 7	3	Red tower; 18.	
8312 <i>M 5731.7</i>	Katashima.	34° 29.0' N 133° 30.9' E	Mo.(A)G. period 9s	27 8	3	Green tower, square daymark; 33.	
8316 <i>M 5731.4</i>	Kasaoka Ko, E.	34° 29.9' N 133° 30.4' E	Iso.R. period 6s	33 10	11	Red round concrete tower; 29.	
8320 <i>M 5524</i>	Sakaide Ko, W. breakwater, head.	34° 19.8' N 133° 51.0' E	Fl.(2)R. period 6s	36 11	5	Red round concrete structure; 28.	
8324 <i>M 5525</i>	- Mitubisikasei Sakaide , range, front.	34° 20.9' N 133° 50.8' E	F.G.	112 34	16	White metal framework structure; 105.	
8328 <i>M 5525.1</i>	--Rear, 700 meters 181° 18' from front.	34° 20.5' N 133° 50.8' E	F.G.	184 56	17	White metal framework structure; 174.	
8332 <i>M 5530</i>	-Sea berth.	34° 21.5' N 133° 50.4' E	Mo.(U)W. period 14s	115 35	16	Mo.(U)W. 8s 12m 9M Siren 200 meters NE. and 230 meters SW. Private light. Radar reflector.	
8336 <i>M 5521.5</i>	Kitaura, breakwater, head.	34° 19.5' N 133° 49.3' E	Fl.G. period 3s	43 13	5	White tower; 31.	
8340 <i>M 5520.8</i>	Horai-tyo, breakwater, head.	34° 18.6' N 133° 47.0' E	Fl.(2)R. period 6s	39 12	5	Red tower; 27.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SETO NAIKAI-EASTERN PART (II)							
8344 <i>M 5518</i>	Syowamati, breakwater, head.	34° 18.3' N 133° 46.1' E	Oc.(2)R. period 6s	39 12	4	Red tower; 30.	
8348 <i>M 5515</i>	Tadotsu Ko, E breakwater, head.	34° 16.6' N 133° 44.5' E	Iso.G. period 6s	33 10	9	White tower; 28.	
8352 <i>M 5512</i>	-Inner harbor, W. breakwater, N. head.	34° 17.0' N 133° 44.2' E	Fl.R. period 3s	36 11	5	Red tower; 27.	
8356 <i>M 5512</i>	-Outer breakwater, head.	34° 16.8' N 133° 44.3' E	Oc.R. period 4s	36 11	11	Red round concrete structure; 26.	
8364 <i>M 5509</i>	Mitama Iwa.	34° 14.9' N 133° 40.4' E	Mo.(A)R. period 8s	33 10	7	STARBOARD (B) R, tower, topmark; 26.	
8368 <i>M 5508</i>	-Suda Ichimonji.	34° 14.1' N 133° 39.2' E	Fl.R. period 3s	30 9	3	Red tower; 18.	
8372 <i>M 5501</i>	Hako Saki.	34° 15.6' N 133° 35.5' E	Fl.W. period 3s	82 25	10	White round concrete tower; 26.	
8376 <i>M 5499</i>	Sanuki Misaki.	34° 15.7' N 133° 33.5' E	Iso.W. period 8s	226 69	12	White tower; 36.	
8380 <i>M 5500</i>	Mushima.	34° 18.0' N 133° 32.0' E	Iso.W. period 6s	230 70	14	White tower; 43.	Visible 204° -099°.
	RACON		(- - - - -)		15		Azimuth coverage 202° - 110°.
8380.5 <i>M 5499.9</i>	-Breakwater, head.	34° 18.5' N 133° 32.2' E	Fl.G. period 3s	31 9	3	White tower; 16.	
8384 <i>M 5482</i>	Taki kami Sima.	34° 11.7' N 133° 16.1' E	Al.Fl.(2+1)W.R. period 20s W. fl. 1.5s, ec. 2.5s W. fl. 1.5s, ec. 6.5s R. fl. 1.5s, ec. 6.5s	443 135	17	White tower; 39.	Visible 034° -279°.
	RACON		(- - - - -)		15		Azimuth coverage 027° - 285°.
8386 <i>M 5500.5</i>	Obi Shima, breakwater.	34° 20.4' N 133° 30.6' E	Fl.G. period 3s	29 9	5	White concrete structure; 18.	
8388 <i>M 5731</i>	Hasiri Ko, W.	34° 21.0' N 133° 25.9' E	Fl.G. period 4s	46 14	7	White tower; 33.	
8388.5 <i>M 5731.2</i>	-N. side.	34° 20.6' N 133° 26.9' E	Fl.(2)G. period 6s	29 9	3	White tower; 16.	
8392 <i>M 5730</i>	Konoishi.	34° 21.9' N 133° 25.6' E	Fl.(2)W. period 5s	46 14	5	ISOLATED DANGER BRB, tower, topmark; 39.	
8393 <i>M 5729.9</i>	Approach, No. 1.	34° 23.2' N 133° 26.6' E	Fl.(2)G. period 6s		5	PORT (B) G, beacon, topmark.	Channel marked by lighted buoys and beacons.
8396 <i>M 5729.8</i>	Nihonkoku Hukuyama Ko Range, Front.	34° 28.7' N 133° 26.9' E	F.R.	72 22	5	White beacon, triangular daymark, point up; 69.	
8400 <i>M 5729.81</i>	-Rear, 300 meters 000° 30' from front.	34° 28.6' N 133° 27.0' E	F.R.	125 38	7	White metal pole; 118.	
HUKUYAMA KO:							
8404 <i>M 5729.7</i>	-Range, front.	34° 27.3' N 133° 24.6' E	F.R.	46 14	7	Red metal post, triangular topmark; 49.	
8408 <i>M 5729.71</i>	-Rear, about 130 meters 300° from front.	34° 27.4' N 133° 24.5' E	F.R.	56 17	7	White metal post, triangular topmark; 39.	
8410 <i>M 5729.5</i>	-Light beacon.	33° 22.6' N 133° 23.4' E	Mo.(A)R. period 8s	32 10	4	STARBOARD (B) R, beacon, topmark; 25.	
8412 <i>M 5729.4</i>	Tomo Ichimonji, detached breakwater, E. head.	34° 22.7' N 133° 23.0' E	Fl.G. period 3s	39 12	3	White tower; 29.	

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JAPAN-SETO NAIKAI-EASTERN PART (II)							
8416 M 5729.6	-Tamatsu Shima, breakwater, head.	34° 22.5' N 133° 22.9' E	Iso.G. period 6s	39 12	5	White tower; 28.	
8420 M 5729	Abura Syo.	34° 21.9' N 133° 21.6' E	Fl.(2)W. period 5s	28 9	3	ISOLATED DANGER BRB, beacon, tower; 19.	
8424 M 5728.5	Abuto Saki.	34° 22.0' N 133° 20.8' E	Iso.W. period 6s	289 88	11	White tower; 30.	
8428 M 5728.7	Hakosaki Ko, breakwater.	34° 21.5' N 133° 20.3' E	Fl.R. period 3s	46 14	5	Red tower; 28.	
BINGO NADA:							
8436 M 5727	-Ono Zowai.	34° 22.6' N 133° 18.2' E	Mo.(D)R. period 8s	33 10	3	STARBOARD (B) R, beacon, topmark; 33.	
8440 M 5726	-Kurikuwa Zowai.	34° 22.9' N 133° 17.5' E	Mo.(D)G. period 8s	31 9	3	PORT (B) G, beacon, topmark; 22.	
8444 M 5725	-Katabira Zowai.	34° 22.3' N 133° 17.1' E	Fl.(2)W. period 5s	31 9	5	ISOLATED DANGER BRB, beacon, topmark; 26.	
8448 M 5725.4	Yokota Ko, breakwater.	34° 21.0' N 133° 17.4' E	Fl.(2)R. period 6s	46 14	3	Red tower; 31.	
8450 M 5724.9	Ebi Ko, breakwater.	34° 23.6' N 133° 15.7' E	Fl.G. period 3s	30 9	3	White tower; 18.	
8450.5 M 5723.7	Breakwater, head.	34° 24.0' N 133° 14.8' E	Fl.G. period 5s	29 9	4	White tower; 18.	
8452 M 5722	Onomiti.	34° 24.1' N 133° 11.7' E	Fl.W. period 4s	108 33	10	White round concrete tower; 36.	
8456 M 5723	Usino Ura.	34° 23.7' N 133° 10.7' E	Fl.(2)W. period 7s	92 28	5	White tower; 33.	
8458 M 5723.4	Itozaki Ko.	34° 23.7' N 133° 09.9' E	Iso.G. period 6s	26 8	5	White tower; 19.	
8460 M 5728	Hyakkan Sima.	34° 18.0' N 133° 16.5' E	Fl.W. period 10s	246 75	20	White round stone tower; 30.	
8464 M 5724.4	Hosaki, breakwater, head.	34° 18.0' N 133° 11.8' E	Iso.G. period 6s	43 13	8	White round concrete structure; 32.	
8468 M 5724	Ohama Saki.	34° 21.5' N 133° 10.4' E	Iso.W.R. period 6s	59 18	11	White round stone tower; 30.	W. 120°-125°, R.-130°, W.- 312°.
8472 M 5720	Tyodayu.	34° 22.4' N 133° 08.3' E	Q.W.	30 9	3	N. CARDINAL BY, beacon, topmark; 22.	
8474 M 5723.3	Hoso Sima.	34° 21.6' N 133° 08.3' E	Fl.(2)G. period 6s	28 8	4	White tower; 18.	
8476 M 5719	Hakanshima.	34° 21.6' N 133° 07.5' E	Q.(9)W. period 15s	33 10	3	W. CARDINAL YBY, beacon, topmark; 26.	
8478 M 5719.5	Sheigei Ko.	34° 20.5' N 133° 08.2' E	Fl.R. period 3s	26 8	4	Red tower; 19.	
8479 M 5718.5	Sagi Ko, breakwater.	34° 21.5' N 133° 07.1' E	Fl.G. period 3s	26 8	3	White tower; 18.	
8480 M 5718	Sagi Shima.	34° 21.6' N 133° 07.0' E	Oc.W. period 8s lt. 6s, ec. 2s	89 27	4	White tower; 21.	
8484 M 5717.4	-Ko Sagi, SE. part of Island.	34° 21.7' N 133° 06.4' E	F.W.	62 19		White tower; 39.	Illuminates beacon about 130 meters E.
8488 M 5716	Kosagi Shima.	34° 21.9' N 133° 06.0' E	Fl.W. period 4s	79 24	12	White round stone tower; 21.	Visible 020°-236°.
8490 M 5715.5	Sunami Ko, breakwater.	34° 21.6' N 133° 05.1' E	Fl.R. period 3s	27 8	4	Red concrete tower; 19.	

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JAPAN-SETO NAIKAI-EASTERN PART (II)							
8492 <i>M 5715</i>	Toramaru Syo.	34° 20.5' N 133° 05.8' E	Mo.(A)R. period 8s	33 10	3	STARBOARD (B) R, beacon, topmark; 24.	
8496 <i>M 5714</i>	Kone Sima.	34° 20.0' N 133° 04.6' E	Iso.W. period 8s	148 45	11	White round concrete tower; 16.	Visible 053° -279° .
8500 <i>M 5713</i>	Tadanoumi Ko.	34° 20.2' N 132° 59.7' E	Iso.R. period 4s	30 9	4	Red round concrete tower; 20.	
8504 <i>M 5712</i>	Okuno Sima.	34° 18.1' N 132° 59.6' E	Iso.W.R. period 6s	69 21	13	White round stone tower; 28.	W. 231° -035°, R.-056°, W.-100°, obscured elsewhere.
8512 <i>M 5706</i>	Mebaruzaki Ko, breakwater, head.	34° 16.6' N 132° 56.5' E	Fl.G. period 3s	49 15	5	White metal framework tower; 36.	
8516 <i>M 5703</i>	Kinoe Ko, breakwater.	34° 14.1' N 132° 55.1' E	Fl.R. period 3s	33 10	4	Red round concrete tower; 26.	
8520 <i>M 5702</i>	Nakano Hana.	34° 12.9' N 132° 55.2' E	Fl.(3)W.R. period 13s	148 45	11	White round stone tower; 17.	W. 170° -205°, R.-215°, W.-051° .
8524 <i>M 5700</i>	Oge Sima.	34° 11.3' N 132° 55.1' E	Fl.W. period 5s	115 35	14	White octagonal stone tower; 30.	Visible 356° -186° .
8526 <i>M 5721</i>	Onomiti Itozaki Ko, detached breakwater, S. head.	34° 23.0' N 133° 06.7' E	Fl.G. period 5s	43 13	5	White tower; 31.	
8528 <i>M 5710.8</i>	Inokuti Ko.	34° 16.0' N 133° 02.7' E	Fl.R. period 4s	31 9	5	Red tower; 18.	
8536 <i>M 5711.2</i>	Okogi Ko, breakwater, head.	34° 16.8' N 133° 08.6' E	Iso.R. period 6s	43 13	5	Red tower; 31.	
8540 <i>M 5711.4</i>	Mitoko Iso.	34° 15.5' N 133° 07.6' E	Mo.(A)R. period 8s	31 9	3	STARBOARD (B) R, beacon, topmark; 26.	
8542 <i>M 5475.7</i>	Tayudo Saki, breakwater.	34° 14.3' N 133° 05.9' E	Fl.G. period 4s	26 8	3	White tower; 16.	
8544 <i>M 5711.5</i>	Iwagi Ko, breakwater, head.	34° 14.6' N 133° 08.8' E	Fl.G. period 3s	31 9	3	White tower; 18.	
8548 <i>M 5711.6</i>	Iwagi.	34° 14.5' N 133° 09.2' E	Mo.(A)G. period 9s	31 9	11	PORT (B) G, beacon, topmark; 23.	
8550 <i>M 5711.8</i>	Nagae Ko, breakwater.	34° 16.4' N 133° 09.6' E	Oc.R. period 4s	29 9	5	Red tower; 19.	
8552 <i>M 5724.2</i>	Habu Ko, breakwater.	34° 17.6' N 133° 10.3' E	Iso.G. period 4s	39 12	4	White tower; 31.	
8556 <i>M 5724.8</i>	Ikina Ko, breakwater, S. head.	34° 15.9' N 133° 11.3' E	Fl.G. period 4s fl. 1s, ec. 3s	30 9	3	White tower; 18.	
8560 <i>M 5724.6</i>	Yuge Ko.	34° 15.5' N 133° 11.9' E	Fl.G. period 3s	30 9	3	White tower; 18.	
8564 <i>M 5476</i>	Hakata Ko, E. breakwater, head.	34° 12.3' N 133° 07.3' E	Fl.G. period 5s fl. 1s, ec. 4s	36 11	5	White tower; 28.	
8566 <i>M 5476.5</i>	-Detached breakwater, N. head.	34° 12.3' N 133° 07.8' E	Fl.(2)G. period 6s	32 10	3	White tower; 22.	
8568 <i>M 5477</i>	Mutsu Se.	34° 11.7' N 133° 07.8' E	Q.(3)W. period 10s	36 11	5	E. CARDINAL BYB, beacon, topmark; 26.	
8572 <i>M 5478</i>	Hunaore Iwa.	34° 11.8' N 133° 05.5' E	Mo.(A)R. period 8s	39 12	5	STARBOARD (B) R, beacon, topmark; 27.	
8576 <i>M 5479</i>	Niwatori Ko Sima.	34° 11.5' N 133° 04.8' E	Fl.W. period 4s	49 15	7	White round concrete tower; 20.	
8577 <i>M 5477.5</i>	Miyakubo Ko, breakwater.	34° 10.3' N 133° 04.9' E	Fl.G. period 3s	36 11	3	White tower; 22.	

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JAPAN-SETO NAIKAI-EASTERN PART (II)							
8578 <i>M 5481.5</i>	Hanaguri Seto, breakwater, head.	34° 13.2' N 133° 03.8' E	Iso.R. period 6s	25 8	5	Red tower; 19.	
8580 <i>M 5481</i>	Simo Komaru Kosima.	34° 13.1' N 133° 03.4' E	Fl.(2)W. period 7s 2 fl. 3s, ec. 4s	69 21	10	White tower; 28.	
8582 <i>M 5479.5</i>	Edagosi Ko.	34° 12.3' N 133° 04.3' E	Fl.G. period 3s	30 9	3	White tower; 18.	
8583 <i>M 5479.8</i>	Hayakawa Ko.	34° 11.7' N 133° 02.4' E	Fl.(2)R. period 6s	28 9	4	Red tower; 19.	
8584 <i>M 5480</i>	Kayatomari Hana.	34° 11.6' N 133° 01.8' E	Fl.W. period 4s	102 31	11	White square concrete tower; 26.	
8588 <i>M 5480.4</i>	Watamaki Iso.	34° 09.6' N 133° 01.8' E	Fl.(2)W. period 5s	28 9	5	ISOLATED DANGER BRB, beacon, topmark; 29.	
8592 <i>M 5498</i>	Namari Ko, middle breakwater.	34° 15.0' N 133° 34.5' E	F.Fl.G. period 6s	43 13	F. 3 Fl 7	White tower; 29.	
8596 <i>M 5497.6</i>	Nio Ko, breakwater, head.	34° 12.0' N 133° 38.2' E	Fl.W. period 4s	39 12	11	White tower; 27.	
8600 <i>M 5497</i>	Muromoto Ko.	34° 09.2' N 133° 38.7' E	Fl.(2)G. period 6s	39 12	11	White round concrete tower; 29.	
KAN ONZI KO:							
8608 <i>M 5494</i>	-N. breakwater, head.	34° 07.3' N 133° 38.0' E	Iso.G. period 6s	31 9	6	White tower; 19.	
8612 <i>M 5495</i>	-S. breakwater, head.	34° 07.2' N 133° 38.1' E	Iso.R. period 6s	39 12	11	Red round concrete tower; 30.	
8616 <i>M 5496</i>	-Ichimonjii, breakwater, S. head.	34° 07.2' N 133° 37.9' E	Fl.G. period 4s	36 11	8	White tower; 30.	
8620 <i>M 5484</i>	Ibuki Ko, breakwater.	34° 07.8' N 133° 32.3' E	Fl.R. period 4s	43 13	12	Red round concrete structure; 28.	
8624 <i>M 5483</i>	Aka Saki.	34° 07.3' N 133° 32.1' E	Fl.W. period 3s	43 13	12	White round concrete tower; 36.	
8636 <i>M 5490</i>	Sanuki Toyohama Ko, W. breakwater.	34° 04.6' N 133° 38.1' E	Oc.R. period 4s lt. 3s, ec. 1s	36 11	11	Red round concrete tower; 26.	
8640 <i>M 5488</i>	Kawanoe Ko, breakwater No. 4, head.	34° 01.4' N 133° 34.3' E	Fl.G. period 3s	33 10	5	White tower; 22.	
8645 <i>M 5488.5</i>	-Outer breakwater, NE. head.	34° 01.7' N 133° 34.2' E	Fl.(2)R. period 5s	43 13	5	Red tower; 28.	
8647 <i>M 5484.6</i>	Mishima, E. detached breakwater, N. head.	34° 00.2' N 133° 32.0' E	Fl.(2)R. period 6s	36 11	5	Red tower; 28.	
8648 <i>M 5484.65</i>	-N. detached breakwater, SW. head.	34° 00.4' N 133° 32.2' E	Fl.G. period 3s	39 12	3	White tower; 27.	
8653 <i>M 5484.4</i>	-Sangawa Ko.	33° 58.4' N 133° 30.8' E	Fl.R. period 4s	36 11	4	Red tower; 19.	
8654 <i>M 5475.5</i>	-Oshima Gyoko, breakwater, S. head.	33° 59.3' N 133° 22.2' E	Fl.R. period 5s	31 9	6	Red tower; 18.	
NIIHAMA KO:							
8656 <i>M 5472</i>	-E. breakwater, head.	33° 58.6' N 133° 16.1' E	Fl.(2)G. period 6s	43 13	7	White hexagonal metal framework structure; 36.	
8660 <i>M 5473</i>	-W. breakwater, head.	33° 58.6' N 133° 15.9' E	Iso.R. period 6s	43 13	12	Red hexagonal iron framework structure; 36.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SETO NAIKAI-EASTERN PART (II)							
8672 <i>M 5471</i>	-Hunagami Iwa.	33° 58.2' N 133° 14.4' E	Fl.(2)W. period 5s	33 10	9	ISOLATED DANGER BRB, beacon, topmark; 26.	
8676 <i>M 5470.7</i>	Saizjo Ko Range, front.	33° 55.6' N 133° 10.7' E	F.R.	23 7	8	White round concrete tower, conical topmark; 22.	
8680 <i>M 5470.71</i>	-Rear, about 100 meters from front.	33° 55.5' N 133° 10.7' E	F.R.	33 10	8	White round concrete tower, conical topmark; 32.	
8682 <i>M 5474.8</i>	Matsunoki, breakwater.	33° 58.9' N 133° 17.6' E	Fl.G. period 4s	33 10	5	White concrete tower; 18.	
8684 <i>M 5475</i>	Habu Saki.	33° 59.4' N 133° 19.5' E	Fl.(3)W. period 13s	174 53	19	White round concrete structure; 36.	
8686 <i>M 5475.4</i>	Takahama Ku.	33° 59.3' N 133° 20.3' E	F.Fl.(2)G. period 7s	39 12	F. 5 Fl 11	White tower; 28.	
8686.5 <i>M 5475.2</i>	-W. breakwater.	33° 59.4' N 133° 20.2' E	Iso.R. period 4s	39 12	11	Red tower; 28.	
8687 <i>M 5470.6</i>	Nyukawa Ko, N. breakwater, W. head.	33° 57.3' N 133° 06.7' E	Fl.(3)G. period 12s	43 13	5	White tower; 28.	
8688 <i>M 5470.5</i>	-W. breakwater, head.	33° 57.4' N 133° 06.6' E	Fl.(3)R. period 12s	43 13	7	Red tower; 31.	
8692 <i>M 5470</i>	Higi Shima.	34° 03.5' N 133° 05.9' E	Fl.W. period 3s	233 71	8	White round concrete tower; 46.	
8696 <i>M 5470.3</i>	Okino Se.	34° 06.3' N 133° 06.3' E	Fl.(2)W. period 5s	49 15	11	ISOLATED DANGER BRB, beacon, topmark; 43.	

Section 6

Western Part of Seto Naikai and Shikoku Including Kii Suido and Bungo Suido

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SETO NAIKAI-WESTERN PART (I)							
8700 <i>M 5467</i>	Imabari Ko, E. breakwater, head.	34° 04.5' N 133° 00.3' E	Iso.G. period 6s	59 18	11	White tower; 62.	
8704 <i>M 5468</i>	-N. breakwater, head.	34° 04.3' N 133° 00.3' E	Fl.(2)G. period 6s	32 10	5	White round concrete tower; 18.	
8708 <i>M 5468.5</i>	-Breakwater, head.	34° 03.9' N 133° 01.2' E	Fl.G. period 4s	52 16	10	White tower; 46.	
8712 <i>M 5464</i>	Ryujin Shima.	34° 06.3' N 133° 01.6' E	Fl.W. period 3s	49 15	7	White round concrete tower; 28.	
8716 <i>M 5456</i>	Hinai Hana Range, front.	34° 07.7' N 133° 00.9' E	Oc.W. period 5s lt. 3s, ec. 2s	128 39	11	White tower; 25.	
8720 <i>M 5456.1</i>	-Rear, about 50 meters 122° from front.	34° 07.7' N 133° 00.9' E	Oc.W. period 5s lt. 3s, ec. 2s	151 46	11	White tower; 31.	
8724 <i>M 5462</i>	Kuru Sima.	34° 06.4' N 132° 59.0' E	Fl.R. period 3s	43 13	7	STARBOARD (B) R, beacon, daymark; 33.	
8728 <i>M 5463</i>	Ama Se.	34° 06.7' N 132° 58.9' E	Fl.R. period 3s	32 10	7	STARBOARD (B) R, beacon, daymark; 33.	
8732 <i>M 5460</i>	Uzu Hana.	34° 06.7' N 132° 59.5' E	Oc.(2)W. period 6s	102 31	11	White round concrete structure; 46.	
8736 <i>M 5459.7</i>	Koura Saki.	34° 07.1' N 132° 59.4' E	Fl.W. period 3s	86 26	11	White round concrete tower; 28.	
8740 <i>M 5461</i>	Nagase Hana.	34° 07.1' N 132° 59.8' E	Iso.W. period 6s	115 35	11	White quadrangular concrete structure; 26.	
8744 <i>M 5458</i>	O Sima.	34° 07.7' N 132° 59.0' E	Fl.(2)R. period 6s	56 17	7	STARBOARD (B) R, beacon, topmark; 43.	
8746 <i>M 5700.5</i>	Ago No Hana, Oge Shima, S. point.	34° 10.7' N 132° 56.1' E	Iso.W. period 6s	56 17	13	White tower; 49.	Visible 237° -100° .
8748 <i>M 5459.3</i>	Nakano Iso.	34° 07.3' N 132° 58.4' E	Mo.(A)G. period 8s	36 11	5	PORT (B) G, beacon, topmark; 25.	
Namikata Ko:							
8752 <i>M 5459.4</i>	-Hiro Se.	34° 07.5' N 132° 57.4' E	Fl.(2)W. period 5s	33 10	5	ISOLATED DANGER BRB, beacon, topmark; 26.	
8756 <i>M 5459.44</i>	-E. breakwater.	34° 07.3' N 132° 57.4' E	Fl.G. period 3s	36 11	5	White round concrete structure; 28.	
8760 <i>M 5454</i>	Ikada Iso.	34° 08.7' N 132° 56.1' E	Mo.(D)R. period 8s	46 14	5	STARBOARD (B) R, beacon, topmark; 36.	
8764 <i>M 5452</i>	Nisiura Oki.	34° 08.1' N 132° 56.1' E	Mo.(A)R. period 8s	33 10	3	STARBOARD (B) R, beacon, topmark; 30.	
8768 <i>M 5451</i>	Kazitori Hana Sea Berth.	34° 07.3' N 132° 54.4' E	Mo.(U)W. period 15s	108 33	9		Mo.(U)W. 15s 6M on piers 650 meters E. and 660 meters W.
8772 <i>M 5450</i>	Kuru Sima.	34° 07.1' N 132° 53.5' E	Fl.(2)W. period 7s	207 63	13	White tower; 36.	
8774	<i>Kurushima Kaikyo Buoy No. 7.</i>	34° 05.7' N 133° 02.3' E	Fl.(2)G. period 6s			PORT (B) G, pillar, topmark.	
	RACON		OE(- - - •)		5		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SETO NAIKAI-WESTERN PART (I)							
8776 M 5652	Nokutuna Sima.	33° 58.0' N 132° 41.8' E	Oc.(2)W. period 12s	43 13	12	White round concrete structure; 21.	
8778 M 5652.5	-Breakwater.	33° 58.5' N 132° 41.2' E	Fl.G. period 3s	30 9	4	White tower; 19.	
8780 M 5651.8	Ho Saki.	33° 57.1' N 132° 40.5' E	Mo.(A)G. period 8s	39 12	5	PORT (B) G, beacon, topmark; 28.	
8784 M 5653	Iyo Nakasima Ko, S. breakwater, head.	33° 58.2' N 132° 38.2' E	Iso.G. period 6s	39 12	11	White round concrete structure on square base; 26.	
8788 M 5448	Kikuma Sea berth.	34° 03.0' N 132° 51.4' E	Mo.(U)R. period 14s	95 29	14	Sea berth terminal.	Auxiliary lights Mo.(U)R. located 150 meters NE and 170 meters SW of main light.
8790 M 5446	Kikuma Ko, breakwater, head.	34° 02.1' N 132° 50.4' E	Fl.(2)R. period 6s	36 11	11	Red round concrete structure; 31.	
8792 M 5447	Siode Iso.	34° 00.7' N 132° 47.6' E	Mo.(A)R. period 8s	49 15	9	STARBOARD (B) R, beacon, topmark; 39.	
8796 M 5444	Hazumano Hana.	33° 59.8' N 132° 46.2' E	Oc.W. period 8s	203 62	20	White round concrete tower; 33.	
8800 M 5442	Hozyo Ko, N. jetty, head.	33° 58.4' N 132° 46.4' E	Fl.(3)G. period 7s 3 fl. 3s, ec. 4s	39 12	11	White round concrete tower; 32.	
8804 M 5441	-Ka Sima, breakwater.	33° 58.4' N 132° 46.1' E	Iso.R. period 6s	39 12	11	Red round concrete structure; 32.	
8806 M 5439.8	Yanagihara Ko, breakwater.	33° 57.3' N 132° 46.3' E	Iso.G. period 6s	31 9	6	White concrete structure; 20.	
8808 M 5439.4	Horie Ko, breakwater, W.	33° 54.3' N 132° 45.1' E	Iso.G. period 4s	39 12	11	White round concrete structure, quadrangular concrete base; 31.	
8810 M 5439	Horie Ko, breakwater, W.	33° 54.3' N 132° 45.0' E	Fl.G. period 4s	36 11	8	White round concrete structure; 28.	
8812 M 5437	Tumuri Saki.	33° 55.4' N 132° 42.3' E	Fl.(2)W. period 6s	154 47	17	White round concrete structure; 36.	
8816 M 5710	Takehara Ko, breakwater, head.	34° 19.6' N 132° 54.9' E	Fl.G. period 3s	30 9	5	White tower; 19.	
8820 M 5708	Sakaridani, breakwater.	34° 16.4' N 132° 55.0' E	Iso.G. period 6s	39 12	4	White round concrete structure; 30.	
8822 M 5709	Onisi Ko.	34° 14.8' N 132° 52.7' E	Fl.G. period 3s	30 9	5	White concrete tower; 19.	
8824 M 5710.6	Ikari Sima.	34° 17.8' N 132° 52.7' E	Mo.(A)G. period 8s	36 11	8	PORT (B) G, beacon, topmark; 26.	
8828 M 5698.4	Tukuga Sima.	34° 15.4' N 132° 50.3' E	Mo.(A)R. period 8s	33 10	9	STARBOARD (B) R, beacon, topmark; 27.	
8830 M 5699.4	Akitu Ko, E. harbor, breakwater.	34° 18.7' N 132° 49.7' E	Fl.(2)G. period 6s	30 9	5	White concrete structure; 18.	
8832 M 5699	Akitu Ko, breakwater.	34° 18.7' N 132° 49.3' E	F.Fl.G. period 5s	36 11	F 5 Fl 11	White round concrete tower; 28.	
8834 M 5697.9	Mituguti Wan Bridge.	34° 16.4' N 132° 47.6' E	Iso.R. period 4s	75 23	4		
			Iso.G. period 4s	66 20	4		F.Y. mark extremity of bridge.
8836 M 5698	Simoikari Iso.	34° 15.1' N 132° 47.4' E	Fl.(2)W. period 5s	31 9	9	ISOLATED DANGER BRB, beacon, topmark; 24.	
8840 M 5697.5	Kinoe Sea berth.	34° 12.4' N 132° 51.3' E	Mo.(U)R. period 15s	46 14	12		Mo.(U)R. 15s 6M marks end of pier.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SETO NAIKAI-WESTERN PART (I)							
8844 M 5697.6	Okiura Ko, breakwater, head.	34° 12.1' N 132° 52.7' E	Iso.G. period 4s	43 13	12	White round concrete structure; 31.	
8846 M 5697.7	Okamura Ko, breakwater.	34° 10.8' N 132° 53.3' E	Oc.G. period 4s	32 10	6	White concrete structure; 18.	
8848 M 5697	Mitarai Ko, breakwater, head.	34° 10.6' N 132° 52.2' E	Iso.G. period 6s	46 14	5	White round concrete structure; 32.	
8852 M 5697.1	-Otyo, breakwater.	34° 10.8' N 132° 51.9' E	F.FI.G. period 4s	39 12	F. 5 FI 11	White round metal structure; 32.	
8856 M 5697.2	O Sima, Mitarai approach.	34° 11.7' N 132° 51.3' E	Fl.W. period 3s	36 11	7	White round concrete structure on quadrangular concrete base; 29.	
8860 M 5697.4	Kubi Ura, breakwater, W. head.	34° 11.3' N 132° 49.7' E	Fl.G. period 4s	39 12	5	White round metal structure; 26.	
8864 M 5696.4	Toyosima Ko, No. 1 breakwater.	34° 10.5' N 132° 48.0' E	Oc.G. period 4s	46 14	9	White tower; 33.	F.R., F.G. and F.Y. lights mark bridge 0.5 mile S.
8868 M 5695.8	Kamagarini Sima.	34° 11.4' N 132° 45.9' E	Fl.W. period 4s	31 9	11	White quadrangular concrete structure; 26.	
8872 M 5695.7	Kamagari Ko, E. breakwater.	34° 11.6' N 132° 44.3' E	Oc.G. period 6s lt. 4s, ec. 2s	42 13	12	White round concrete structure; 31.	
8876 M 5695.6	-Tado, breakwater.	34° 11.7' N 132° 43.5' E	F.FI.G. period 5s	33 10	F. 5 FI 11	White round metal structure; 29.	
8880 M 5697.8	Kawaziri Ko, breakwater, head.	34° 13.8' N 132° 42.1' E	Fl.R. period 3s	29 9	7	Red tower; 18.	
8886 M 5695.5	Kamagari Ko, N. breakwater.	34° 11.5' N 132° 41.0' E	Fl.(2)R. period 6s	23 7	3	Red tower; 16.	
8888 M 5695	Kasane Iwa.	34° 12.5' N 132° 39.7' E	Fl.W. period 4s	27 8	10	White tower; 17.	
8890 M 5695.56	Kamagari, bridge.	34° 11.1' N 132° 41.1' E	2 F.W.	79 24	5		F.G., F.R., F.Y. mark bridge.
8892 M 5696	Kamo Se.	34° 08.7' N 132° 45.4' E	Fl.W. period 4s	69 21	5	White tower; 23.	
8896 M 5445	Ai Shima.	34° 04.2' N 132° 42.6' E	Oc.W. period 4s lt. 3s, ec. 1s	217 66	14	White tower; 36.	
8900 M 5651.3	Uta Saki.	34° 00.9' N 132° 38.9' E	Fl.W. period 4s	45 14	12	White round concrete structure; 39.	
8902 M 5651.2	Nisinaka Ko, breakwater.	33° 58.9' N 132° 36.4' E	Iso.R. period 6s	32 10	7	Red concrete structure; 22.	
8904 M 5654	Mitsu Ishi.	34° 01.7' N 132° 33.3' E	Fl.W. period 3s	52 16	7	White tower; 31.	
8908 M 5656	Aki Sengai.	34° 04.3' N 132° 33.8' E	Q.(3)W. period 10s	33 10	5	E. CARDINAL BYB, beacon, topmark; 39.	
8912 M 5655	Kurahashi Ko, breakwater.	34° 04.2' N 132° 32.3' E	Iso.G. period 6s	46 14	5	White round concrete structure; 27.	F.W., F.R., F.G. and F.Y. mark bridge 200 meters SE.
8914 M 5654.5	Aki Manaita Ishi.	34° 02.3' N 132° 32.0' E	Fl.(2)W. period 5s	36 11	5	ISOLATED DANGER BRB, beacon, topmark; 26.	
8916 M 5664	Nishi Gobanno Bae.	34° 03.9' N 132° 26.4' E	Q.(9)W. period 15s	49 15	8	W. CARDINAL YBY, beacon, topmark; 39.	
8920 M 5662	Hashirajima Ko, E. breakwater.	34° 01.4' N 132° 25.3' E	Iso.G. period 4s	52 16	5	White tower; 32.	
8924 M 5668	Aki Shira Ishi.	34° 10.7' N 132° 20.9' E	Fl.(2)W. period 5s	62 19	8	ISOLATED DANGER BRB, beacon, topmark; 66.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SETO NAIKAI-WESTERN PART (I)							
8928 M 5677.4	Kanokawa Ko, breakwater.	34° 11.5' N 132° 26.4' E	Fl.(2)R. period 6s	27 8	4	Red tower; 19.	
8932 M 5677.2	-Mitsubishi Shoji Sea berth.	34° 10.7' N 132° 26.0' E	Mo.(U)W. period 15s	46 14	10		
8936 M 5678	Hata Ko, W. breakwater.	34° 12.2' N 132° 24.5' E	Iso.G. period 6s	43 13	5	White tower; 31.	
8940 M 5678.4	-Korenage, breakwater.	34° 12.9' N 132° 23.6' E	Fl.G. period 3s	39 12	5	White tower; 31.	
8944 M 5675.7	Kuba Ko, breakwater.	34° 15.4' N 132° 14.1' E	Fl.G. period 4s	39 12	5	White tower; 22.	
8948 M 5675.4	Otake Ko, breakwater, head.	34° 14.0' N 132° 13.4' E	Iso.R. period 6s	39 12	9	Red tower; 32.	
8949 M 5675.6	-Detached breakwater.	34° 14.0' N 132° 13.8' E	Fl.(2)R. period 6s	31 9	4	Red tower; 19.	
8952 M 5671	Iwakuni Ko, N. breakwater, head.	34° 11.6' N 132° 14.1' E	Fl.R. period 3s	26 8	3	Red tower; 23.	
8956 M 5669	Atada Ko.	34° 11.7' N 132° 18.9' E	Fl.R. period 3s	30 9	5	Red tower; 18.	
8958 M 5670	-S. breakwater, head.	34° 11.7' N 132° 19.1' E	Fl.(2)R. period 8s	29 9	4	Red tower; 19.	
8964 M 5679	Manaita Sho.	34° 15.1' N 132° 21.6' E	Fl.(2)W. period 5s	36 11	5	ISOLATED DANGER BRB, beacon, topmark; 30.	
8968 M 5680.6	Mino Ko, breakwater, E. head.	34° 15.3' N 132° 23.0' E	Oc.R. period 4s	39 12	11	Red round concrete structure; 31.	
8972 M 5680.8	Mitaka Ko, W. breakwater, head.	34° 15.6' N 132° 24.4' E	Fl.R. period 4s	39 12	5	Red tower; 31.	
8976 M 5680.9	Kasa Iso.	34° 15.8' N 132° 24.8' E	Fl.(2)W. period 5s	32 10	5	ISOLATED DANGER BRB, beacon, topmark; 25.	
8977 M 5678.6	Eta Uchi.	34° 14.2' N 132° 26.2' E	Fl.(2)R. period 6s	27 8	4	Red tower; 19.	
8978 M 5680.95	Sejou Ko.	34° 15.1' N 132° 27.5' E	Fl.R. period 3s	25 8	4	Red tower; 19.	
8980 M 5680	Nakano Se.	34° 16.2' N 132° 22.5' E	Mo.(D)G. period 8s	39 12	5	PORT (B) G, beacon, topmark; 49.	
8984 M 5681	Aki Eno Shima.	34° 17.4' N 132° 21.7' E	Fl.W. period 4s	161 49	8	White round concrete tower; 46.	
8988 M 5680.4	Ando Shima.	34° 16.6' N 132° 24.3' E	Fl.W. period 4s	59 18	5	White tower; 30.	
8992 M 5689	Dogen Isi.	34° 17.8' N 132° 27.0' E	Mo.(A)G. period 8s	26 8	6	PORT (B) G, beacon, topmark; 30.	
8994 M 5688.4	Nino Sima Ko, N. breakwater, head.	34° 18.9' N 132° 25.9' E	Fl.R. period 3s	27 8	3	Red tower; 19.	
8996 M 5691	Eta Sima.	34° 16.9' N 132° 28.6' E	Fl.R. period 4s	39 12	11	Red tower; 31.	
9000 M 5690	Yakataisi.	34° 17.7' N 132° 28.9' E	Q.W.	25 8	10	N. CARDINAL BY, beacon, topmark; 36.	
9004 M 5687	Uzina.	34° 20.4' N 132° 27.8' E	Al.FI.W.R. period 10s	151 46	W. 17 R. 15	White round concrete structure on octagonal base; 69.	
9005 M 5687.1	-NE.	34° 20.8' N 132° 28.0' E	Fl.(2)G. period 6s	29 9	4		R. and G. lights on end of jetties 300m and 400m S.
9008 M 5687.5	-Harbor, E. breakwater.	34° 20.7' N 132° 27.4' E	Oc.R. period 4s lt. 3s, ec. 1s	56 17	11	Red round concrete structure; 62.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SETO NAIKAI-WESTERN PART (I)							
9012 <i>M 5687.4</i>	--W. breakwater.	34° 20.7' N 132° 27.2' E	Oc.G. period 4s lt. 3s, ec. 1s	56 17	11	White round concrete structure; 62.	
9020 <i>M 5686</i>	-AVIATION LIGHT.	34° 22.2' N 132° 25.2' E	Al.FI.W.G. period 4.3s			Metal framework structure.	
9022 <i>M 5685</i>	-Tower.	34° 21.3' N 132° 24.8' E	Mo.(U)W. period 12s	29 9	3		
9023 <i>M 5684.2</i>	-Mitsubishi Shipyard, detached breakwater, E. head.	34° 21.4' N 132° 24.9' E	Fl.G. period 3s	21 6	3	White tower; 12.	
9023.5 <i>M 5684.4</i>	--W. head.	34° 21.4' N 132° 24.8' E	Fl.R. period 3s	21 6	3	Red tower; 12.	
9024 <i>M 5684</i>	-Kusatu Gyoko.	34° 21.6' N 132° 24.1' E	Fl.R. period 5s	39 12	7	Red tower; 31.	Visible 300° -210° .
9028 <i>M 5683</i>	-Breakwater, head.	34° 21.7' N 132° 23.9' E	Iso.G. period 4s	36 11	5	White round concrete tower; 28.	
9034 <i>M 5681.4</i>	Hirosima Ko Sea berth.	34° 20.3' N 132° 20.4' E	Mo.(U)W. period 10s	39 12	10	Terminal.	Auxiliary lights Mo.(U)W. 10s located 110 meters NE. and 130 meters SW. of main light.
9036 <i>M 5681.2</i>	-Zigozen Ko, W. breakwater.	34° 20.3' N 132° 19.4' E	Iso.G. period 6s	43 13	5	White round concrete structure; 31.	
9040 <i>M 5677</i>	Kame Iso.	34° 17.6' N 132° 17.7' E	Mo.(A)G. period 8s	33 10	3	PORT (B) G, beacon, topmark; 26.	Two F.R. lights are shown on NW. side of Itsuku Shima.
9044 <i>M 5676.4</i>	Kaminohama Ko, breakwater, head.	34° 17.4' N 132° 17.1' E	Fl.G. period 3s	26 8	3	White tower; 18.	
9048 <i>M 5676</i>	Sinkai Hana.	34° 17.0' N 132° 17.1' E	Iso.W. period 6s	33 10	11	White round concrete tower; 25.	
9050 <i>M 5692.5</i>	Koyo Ko, breakwater.	34° 14.8' N 132° 29.8' E	Fl.(2)G. period 6s	30 9	5	White concrete structure; 18.	
9052 <i>M 5692</i>	Kourume Sima.	34° 14.4' N 132° 31.1' E	Fl.W. period 4s	72 22	11	White concrete structure; 36.	
9054 <i>M 5692.7</i>	Akizuki, breakwater, head.	34° 13.7' N 132° 29.6' E	Fl.(2)R. period 6s	27 8	3	Red tower; 16.	
9056 <i>M 5693</i>	Ondo.	34° 11.8' N 132° 32.4' E	Iso.W. period 6s	125 38	17	White round concrete tower; 31.	Bridge marked by 2 F.R., 2 F.W., and 2 F.G.
9060 <i>M 5694</i>	Hiro Wan Range, front.	34° 13.3' N 132° 37.1' E	F.R.	79 24	11	White metal post, triangular topmark; 62.	
9064 <i>M 5694.1</i>	-Rear, 127 meters 029° 06' from front.	34° 13.3' N 132° 37.1' E	F.R.	89 27	11	White metal post, triangular daymark; 80.	
9068 <i>M 5694.5</i>	Hiro Wan Aga Oki, W. breakwater, head.	34° 13.0' N 132° 35.9' E	Fl.R. period 3s	39 12	9	Red quadrangular metal framework tower; 30.	
9072 <i>M 5666.5</i>	Kakiura Ko, breakwater, head.	34° 10.8' N 132° 28.5' E	Fl.G. period 4s	42 13	3	White round concrete tower; 30.	
9076 <i>M 5666</i>	Ogaki Ko, N. breakwater, head.	34° 10.4' N 132° 29.1' E	Fl.G. period 3s	36 11	8	White round concrete tower on square base; 29.	
9080 <i>M 5665.5</i>	Akitahara Ko, S. breakwater.	34° 10.2' N 132° 30.0' E	Fl.R. period 5s	42 13	3	Red tower; 31.	
9088 <i>M 5664.7</i>	Ryosida Ko, S. breakwater.	34° 08.5' N 132° 30.4' E	F.FI.R. period 3s	36 11	F. 6 FI 11	Red tower; 28.	
9092 <i>M 5664.4</i>	Dentarohana.	34° 06.3' N 132° 27.0' E	Fl.W. period 4s	56 17	13	White round concrete structure on square base; 28.	
9094	Iwakuni, N. breakwater, head.	34° 08.1' N 132° 15.5' E	Q.(2)R. period 6s	33 10	7		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SETO NAIKAI-WESTERN PART (I)							
9095	-S. breakwater, head.	34° 07.9' N 132° 15.4' E	Q.(2)G. period 6s	36 11			
9096 M 5663	Yuu Ko, breakwater.	34° 02.4' N 132° 13.4' E	Iso.R. period 6s	39 12	8	Red round concrete structure; 32.	
9100 M 5658	Kuka Ko.	33° 57.1' N 132° 17.1' E	Fl.(2)W. period 8s	118 36	17	White round concrete structure; 36.	
9102 M 5660	-E. breakwater, head.	33° 57.0' N 132° 16.5' E	Fl.(2)G. period 6s	26 8	5	White tower; 18.	
9104 M 5659	Kuka Ko, breakwater.	33° 56.8' N 132° 16.1' E	Fl.G. period 4s	39 12	11	White round concrete tower; 29.	
9108 M 5657	Ihota Ko.	33° 56.5' N 132° 26.6' E	Fl.R. period 4s	42 13	9	Red round reinforced fiberglass structure; 33.	
9110 M 5638	Osima Bridge.	33° 57.3' N 132° 11.3' E	2 F.W.	105 32	9	On bridge.	Marks center of channel. Vertical clearance 30 meters. F.G. and F.R. mark edges of channel. Siren: 1 bl. ev. 18s (bl. 3s, si. 15s).
9112 M 5636	O Iso.	33° 57.1' N 132° 10.8' E	Fl.W. period 3s	46 14	9	Red round concrete structure, black bands; 52.	
9116 M 5634.5	Yanai Ko.	33° 57.0' N 132° 08.4' E	Fl.(2)R. period 6s	43 13	9	Red tower; 29.	
9120 M 5632	-E. breakwater, head.	33° 57.0' N 132° 08.3' E	Fl.(2)G. period 6s	36 11	8	White round concrete structure on quadrangular base; 28.	
9124 M 5634	-W. breakwater, head.	33° 56.9' N 132° 08.2' E	Fl.R. period 3s	40 12	9	Red round concrete structure on quadrangular base; 28.	
9128 M 5436	Turu Shima.	33° 53.4' N 132° 38.5' E	Al.Fl.W.R. period 16s	190 58	20	White round granite tower; 33.	Visible 007° -250° .
	RACON		(- - - - -)		9		Azimuth coverage 172° - 072° .
9130 M 5651.75	Iyokounoura Ko.	33° 56.8' N 132° 36.5' E	Fl.G. period 3s	30 9	5	White tower; 18.	
9132 M 5651.7	Huguri Iwa.	33° 55.9' N 132° 36.6' E	Q.(6)+L.Fl. period 15s	46 14	12	S. CARDINAL YB, beacon, topmark; 36.	
9136 M 5651.6	Oichi Shima.	33° 54.6' N 132° 35.3' E	Fl.W. period 3s	46 14	5	White tower; 32.	
9140 M 5645	Yuri Sima.	33° 50.5' N 132° 32.1' E	Fl.(3)W. period 12s	105 32	12	White round concrete tower; 39.	
9144 M 5644.4	Ao Sima.	33° 43.9' N 132° 28.8' E	Fl.(2)W. period 8s	335 102	20	White round concrete structure; 39.	
9148 M 5644	Kominase Sima.	33° 46.5' N 132° 23.7' E	Fl.W. period 4s	66 20	12	White round concrete structure; 49.	
9152 M 5418.5	Heigon Ko.	33° 46.7' N 132° 15.7' E	Fl.R. period 4s	29 9	6	Red tower; 18.	
9156 M 5418	Okino Se.	33° 45.9' N 132° 15.3' E	Fl.G. period 4s	26 8	5	PORT (B) G, beacon, topmark; 16.	
9160 M 5414	Ya Shima.	33° 42.6' N 132° 08.2' E	Fl.W. period 10s	193 59	20	White tower; 37.	
9162	<i>Iyo Nada, buoy No. 5.</i>	33° 41.4' N 132° 08.2' E	Mo.(A)W. period 8s			SAFE WATER RW, pillar, topmark.	
	RACON		G(- - •)		5		
9164 M 5412	Hoziro Sima.	33° 43.8' N 132° 01.0' E	Fl.W. period 3s	128 39	16	White round concrete tower; 23.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SETO NAIKAI-WESTERN PART (I)							
9168 M 5647	Okozeiwa.	33° 59.4' N 132° 32.0' E	Mo.(A)R. period 8s	36 11	3	STARBOARD (B) R, beacon, topmark; 26.	
9172 M 5649	Kazakiri Hana.	33° 59.5' N 132° 34.2' E	Oc.(2)W. period 6s	39 12	11	White round concrete structure on quadrangular concrete base; 28.	
9176 M 5650	Kudako Sima.	33° 58.0' N 132° 34.0' E	Iso.W. period 6s	187 57	19	White round stone tower; 36.	
9180 M 5651	Heyano Hana.	33° 58.0' N 132° 35.0' E	Fl.(3)W. period 13s	174 53	17	White round concrete structure; 36.	
9184 M 5646.5	Aburatori Se.	33° 58.3' N 132° 31.0' E	Mo.(A)G. period 8s	40 12	8	PORT (B) G, beacon, topmark; 29.	
9186 M 5646.7	Nuwazima Suido, breakwater, head.	33° 58.7' N 132° 31.1' E	Fl.(3)G. period 12s	30 9	5	White tower; 22.	
9188 M 5646	Nenasi Syo.	33° 56.6' N 132° 30.0' E	Fl.(2)W. period 5s	56 17	12	ISOLATED DANGER BRB, beacon, topmark; 56.	
9190	Nasake Sima.	33° 57.0' N 132° 28.6' E	Fl.W. period 3s	39 12	9	White tower; 31.	
9192 M 5645.4	Oisi.	33° 55.0' N 132° 28.5' E	Mo.(D)G. period 8s	43 13	8	PORT (B) G, beacon, topmark; 33.	
9196 M 5645.6	Yuta Ko, A breakwater.	33° 55.7' N 132° 26.3' E	Iso.G. period 6s	43 13	12	White round concrete structure; 32.	
9200 M 5640	Setono Isi.	33° 51.4' N 132° 21.8' E	Mo.(A)G. period 8s	32 10	5	PORT (B) G, beacon, topmark; 29.	
9202 M 5641	Okikamuro Sima.	33° 50.7' N 132° 21.9' E	Mo.(C)G. period 13s	49 15	10	PORT (B) G, beacon, topmark; 36.	
9204 M 5642	Sengai Se.	33° 49.4' N 132° 22.0' E	Fl.(2)W. period 5s	23 7	5	ISOLATED DANGER BRB, beacon, topmark; 30.	
9208 M 5639.4	Siraki Ko, breakwater.	33° 52.9' N 132° 20.1' E	Iso.G. period 6s	39 12	11	White round concrete tower; 28.	
9210 M 5639.2	-Breakwater.	33° 53.9' N 132° 17.5' E	Fl.G. period 3s	33 10	5	White round tower; 18.	
9212 M 5639	Agenosyoko, W. breakwater, head.	33° 53.8' N 132° 17.1' E	F.Fl.R. period 5s	36 11	F. 6 Fl 11	Red round concrete tower; 28.	
9216 M 5628	Simo-Ninai Sima, on summit.	33° 50.7' N 132° 11.1' E	Fl.(4)W. period 14s	387 118	12	White round concrete tower; 39.	
9220 M 5627	Kajikake Iwa.	33° 50.0' N 132° 08.8' E	Mo.(A)G. period 8s	43 13	5	PORT (B) G, beacon, topmark; 36.	
9224 M 5415	Yasima Ko, breakwater.	33° 43.7' N 132° 08.7' E	Iso.R. period 6s	43 13	12	Red round concrete tower; 32.	
9228 M 5413	Amata Sima.	33° 46.3' N 132° 03.1' E	Fl.(2)W. period 6s	49 15	5	White round metal structure; 32.	
9232 M 5410	Hanaguri Shima.	33° 47.1' N 132° 01.4' E	Fl.W. period 5s	98 30	5	White round concrete tower; 33.	
9236 M 5435	Mutuyama Ko.	33° 53.4' N 132° 42.6' E	Fl.R. period 3s	33 10	7	Red tower; 18.	
9240 M 5433.8	Outer Harbor, breakwater No. 2, N. head.	33° 51.9' N 132° 42.1' E	Fl.(2)R. period 7s	59 18	13	Red structure; 30.	
9244 M 5434	Breakwater, N. head.	33° 52.0' N 132° 42.5' E	Iso.R. period 4s	36 11	3	Red tower; 28.	
9246 M 5432.9	-Offshore, S. beacon.	33° 50.2' N 132° 41.1' E	Mo.(D)Y. period 8s	36 11	7	SPECIAL Y, beacon, topmark; 36.	
9247 M 5432.95	--N. beacon.	32° 50.5' N 132° 40.7' E	Mo.(N)Y. period 8s	36 11	7	SPECIAL Y, beacon, topmark; 36.	

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JAPAN-SETO NAIKAI-WESTERN PART (I)							
9248 <i>M 5433</i>	Yosidahama, breakwater.	33° 50.4' N 132° 42.0' E	F.F.I.R. period 5s	36 11	F. 6 Fl 11	Red round concrete tower; 28.	
9252 <i>M 5432.6</i>	AVIATION LIGHT.	33° 49.7' N 132° 42.1' E	Al.FI.W.G. period 4.3s	66 20		Metal framework tower.	
9256 <i>M 5432.8</i>	Breakwater.	33° 49.1' N 132° 41.0' E	Fl.R. period 3s	43 13	6	Red tower; 36.	
9260 <i>M 5432</i>	Masaki Ko, W. breakwater.	33° 47.2' N 132° 41.5' E	Fl.R. period 3s	39 12	5	Red tower; 26.	
9264 <i>M 5431</i>	Guntyu Ko, W. breakwater, head.	33° 45.6' N 132° 41.6' E	Fl.(2)R. period 7s	43 13	9	Red tower; 31.	
9268 <i>M 5430.5</i>	Kaminada Ko, breakwater, N. head.	33° 41.2' N 132° 38.3' E	Iso.R. period 4s	43 13	12	Red round concrete tower; 31.	Spotlight illuminates W. head of breakwater.
9270 <i>M 5430</i>	Iyotoyota Ko, W. breakwater.	33° 39.1' N 132° 34.9' E	F.F.I.R. period 6s	52 16	F. 6 Fl 13	Red tower; 31.	
9272 <i>M 5428</i>	Nagahama Ko, N. breakwater.	33° 37.0' N 132° 29.5' E	Iso.R. period 6s	36 11	11	Red round concrete tower; 28.	
9276 <i>M 5429</i>	-E. breakwater, N. head.	33° 36.9' N 132° 29.5' E	Iso.G. period 6s	39 12	11	White round concrete structure; 32.	
9280 <i>M 5427.8</i>	Kusyu Ko, W. breakwater, head.	33° 34.3' N 132° 26.5' E	F.F.I.R. period 4s	39 12	F. 6 Fl 12	Red round concrete structure; 32.	
9284 <i>M 5427.5</i>	Husuma Hana.	33° 28.2' N 132° 15.7' E	Fl.W. period 10s	197 60	20	White tower; 29.	Visible 040° -253° .
9288 <i>M 5427</i>	Mitukue Ko.	33° 27.3' N 132° 15.3' E	Iso.R. period 6s	43 13	12	Red square framework tower; 24.	
9292 <i>M 5426</i>	Mimai Saki.	33° 24.9' N 132° 07.5' E	Iso.W. period 6s	240 73	22	White round concrete structure; 33.	
9296 <i>M 5424</i>	Sada Misaki.	33° 20.4' N 132° 01.0' E	Fl.(3)W. period 20s	161 49	19	White octagonal concrete structure; 59.	Visible 265° -214° . Signal station (day only).
			F.W.	121 37		Close to above tower.	Illuminates beacon on Ogon Bac, 650 meters SSW.
	RAMARK				21		
9300 <i>M 4947</i>	Bungo Hira Se.	33° 16.4' N 131° 54.6' E	Fl.(2)W. period 5s	43 13	12	ISOLATED DANGER BRB, beacon, topmark; 39.	
9304 <i>M 4947.04</i>	Asike Bae.	33° 16.6' N 131° 57.9' E	Fl.W. period 3s	69 21	14	White round concrete structure; 49.	Visible 089° -054° .
9308 <i>M 4946</i>	Seki Saki.	33° 15.8' N 131° 54.3' E	Iso.W. period 8s	226 69	22	White round metal tower; 33.	Visible 094° -360° .
9310 <i>M 4945.5</i>	Koguro Ko.	33° 15.0' N 131° 53.9' E	Fl.R. period 3s	30 9	3	Red tower; 16.	
9312 <i>M 4945</i>	Saganoseki Gyoko.	33° 14.4' N 131° 53.2' E	Iso.R. period 4s	43 13	12	Red tower; 31.	
9316 <i>M 4944</i>	Fishery Harbor, E. breakwater.	33° 14.4' N 131° 52.9' E	F.F.I.R. period 6s	36 11	F. 6 Fl 11	Red round concrete tower; 28.	
9320 <i>M 4946.6</i>	-W. breakwater.	33° 15.1' N 131° 52.0' E	Fl.R. period 3s	36 11	5	Red round concrete structure; 28.	
9321 <i>M 4947.06</i>	Kozaki Ko, breakwater.	33° 14.5' N 131° 47.4' E	Fl.G. period 3s	33 10	5	White concrete tower; 22.	
9322 <i>M 4947.08</i>	Hiyosibaru Hakuti, E. breakwater, head.	33° 15.3' N 131° 46.4' E	Iso.G. period 6s	59 18	13	White tower; 62.	
9324 <i>M 4947.12</i>	Oita Ko, breakwater, head.	33° 15.1' N 131° 46.9' E	Fl.R. period 4s	30 9	4	Red tower; 25.	

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JAPAN-SETO NAIKAI-WESTERN PART (I)							
9328 <i>M 4947.11</i>	-Sea Berth.	33° 14.9' N 131° 46.9' E	Mo.(U)R. period 12s	30 9	5		
9332 <i>M 4947.1</i>	Ekikagasu Bitiku.	33° 15.2' N 131° 46.7' E	Mo.(U)W. period 12s	102 31	15		Mo.(U)W. 12s 180 meters W. and 190 meters ESE.
9336 <i>M 4947.15</i>	-	33° 15.2' N 131° 46.6' E	Dir.F.W.R.G.	49 15	W. 3 R. 1 G. 1	White tower; 36.	R. 188° -190° 30' , W.- 195° 30' , G.-198° .
9338 <i>M 4947.09</i>	-Breakwater, NE. head.	33° 15.5' N 131° 46.2' E	Fl.(2)R. period 6s	39 12	11	Red tower; 28.	
9340 <i>M 4947.18</i>	-Breakwater, W. head.	33° 15.4' N 131° 44.5' E	Fl.(2)G. period 6s	43 13	8	White tower; 33.	
9341 <i>M 4947.19</i>	-E. head.	33° 15.6' N 131° 44.2' E	Fl.(2)R. period 6s	39 12	6	Red tower; 29.	
9342 <i>M 4947.3</i>	Oita Ko, LNG berth.	33° 16.4' N 131° 42.8' E	Mo.(U)W. period 12s	82 25	14	Dolphin.	Mo.(U)W. 12s 7M on dolphins 220 meters SE. and 200 meters NW.
9344 <i>M 4947.26</i>	-No. 1.	33° 16.6' N 131° 41.6' E	Mo.(U)R. period 8s	30 9	10	Dolphin.	Auxiliary Mo.(U)R. 8s, 250 meters WNW. and 480 meters W.
9348 <i>M 4947.4</i>	-Tsurasaki, E. breakwater, head.	33° 16.8' N 131° 40.8' E	Fl.(2)G. period 6s	43 13	5	White round concrete tower; 28.	
9352 <i>M 4947.5</i>	-Misa, W. breakwater.	33° 16.8' N 131° 40.6' E	Fl.(2)R. period 6s	39 12	5	Red round concrete tower; 27.	
9356 <i>M 4947.6</i>	-Showa Yuka, oil terminal sea berth.	33° 16.6' N 131° 40.4' E	Mo.(U)R. period 12s	98 30	14	Dolphin.	Auxiliary lights Mo.(U)R. 12s shown 190 and 220 meters E. and W. respectively from main light. Radar reflector.
9360 <i>M 4947.74</i>	-E. breakwater.	33° 16.7' N 131° 39.8' E	Fl.G. period 3s	59 18	4	White round metal structure; 49.	
9364 <i>M 4947.7</i>	-Otozu, W. breakwater.	33° 16.6' N 131° 39.5' E	Fl.R. period 3s	59 18	7	Red round concrete structure; 52.	
9368 <i>M 4947.8</i>	Heavy oil sea berth.	33° 16.5' N 131° 39.6' E	Mo.(U)W. period 8s	25 8	9		Visible 159° -019° Auxiliary light Mo.(U)R. 8s. vis. 159° -019° located 60 meters SSW.
9372 <i>M 4948</i>	Oita Ko, Sin Nippon Seitetsu Sea Berth.	33° 16.2' N 131° 38.1' E	Mo.(U)R. period 8s	39 12	9		Auxiliary lights Mo.(U)R. 8s located 140, 730, and 870 meters SW.
9376 <i>M 4947.9</i>	-Jetty.	33° 16.0' N 131° 37.6' E	Dir.F.W.R.G.	36 11	W. 11 R. 10 G. 10	Bridge tower at material berth.	R. 223° 06' -230° 06' , W.- 235° 54' , G.-242° 54' . Center of fairway is 233° .
9380 <i>M 4948.4</i>	--E. breakwater.	33° 15.0' N 131° 36.1' E	Fl.(2)G. period 6s	46 14	5	White round concrete structure on square base; 31.	
9384 <i>M 4948.6</i>	Sumiyosi, W. breakwater.	33° 15.3' N 131° 35.8' E	Fl.(2)R. period 6s	42 13	4	Red round concrete structure; 31.	
9388 <i>M 4950</i>	Oita Ko, N. breakwater, head.	33° 15.1' N 131° 35.2' E	F.Fl.G. period 4s	43 13	F. 5 Fl 9	White round concrete tower; 32.	
9392 <i>M 4951</i>	W. breakwater, head.	33° 15.1' N 131° 35.1' E	F.Fl.R. period 4s	43 13	F. 5 Fl 9	Red round concrete tower; 32.	
9396 <i>M 4953</i>	Beppu Kanko Ko.	33° 18.0' N 131° 30.4' E	Fl.G. period 3s	24 7	5	White round concrete tower; 21.	
9400 <i>M 4954</i>	-Offing breakwater.	33° 18.0' N 131° 30.5' E	Fl.R. period 3s	52 16	7	Red round concrete structure; 52.	
9404 <i>M 4954.5</i>	-Offing breakwater, N. head.	33° 18.5' N 131° 30.4' E	Iso.G. period 4s	52 16	8	White round concrete structure; 52.	

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JAPAN-SETO NAIKAI-WESTERN PART (I)							
9408 M 4955	-Breakwater, head.	33° 19.9' N 131° 29.9' E	Fl.G. period 3s	46 14	5	White tower; 33.	
9412 M 4955.5	Hizi Ko, E. breakwater, head.	33° 21.7' N 131° 32.4' E	Oc.R. period 8s	30 9	7	Red tower; 19.	
9414 M 4955.57	Kanuki Ko.	33° 22.2' N 131° 38.4' E	Fl.R. period 3s	30 9	6	Red tower; 19.	
9416 M 4956	Morie Ko.	33° 24.5' N 131° 39.6' E	Mo.(A)R. period 8s	36 11	6	STARBOARD (B) R, beacon, topmark; 30.	
9421 M 4962	Usuisi Hana.	33° 24.2' N 131° 42.3' E	L.Fl.W. period 15s	98 30	16	White concrete structure; 56.	Visible 190° -057°.
9422	Musasi, breakwater, SE. head.	33° 30.0' N 131° 44.2' E	Fl.R. period 3s	36 11	6	Red tower; 28.	
9424 M 4964	Kunisaki Ko, S. breakwater.	33° 33.8' N 131° 44.5' E	Oc.G. period 5s	33 10	6	White tower; 26.	
9428 M 4965	Kunisaki Ko, E. breakwater.	33° 34.1' N 131° 44.4' E	Fl.R. period 5s	46 14	12	Red round tower; 33.	
9432 M 4966	Tomiku Ko.	33° 36.1' N 131° 43.4' E	Fl.R. period 3s	43 13	12	Red round concrete tower; 31.	
9434	<i>Suo Nada Buoy No. 4.</i>	33° 51.4' N 131° 12.0' E	Mo.(A)W. period 8s			SAFE WATER RW, pillar, topmark.	
	RACON		OE(- - - •)		5		
9436 M 5626	Murotu.	33° 49.7' N 132° 07.2' E	Iso.W.R. period 6s	49 15	12	White round concrete structure; 43.	R. 250° -274°, W.-105°, obsc.-250°.
9440 M 5626.2	Murotu Ko, breakwater.	33° 50.1' N 132° 07.1' E	Fl.G. period 2s	39 12	11	White round concrete tower; 31.	
9444 M 5409	-Kaminoseki Range, front.	33° 49.6' N 132° 07.0' E	FR.	118 36	8	White concrete post, triangular topmark; 36.	
9448 M 5409.1	--Rear, 58 meters 154° 18' from front.	33° 49.6' N 132° 07.0' E	FR.	138 42	8	White concrete post, triangular topmark; 23.	
9452 M 5409.4	Kaminoseki Ko, A breakwater.	33° 49.7' N 132° 06.9' E	F.Fl.R. period 3s	36 11	F. 6 Fl 11	Red round concrete tower; 28.	
9456 M 5408	Kame Iwa.	33° 51.5' N 132° 04.7' E	Mo.(A)R. period 8s	46 14	9	STARBOARD (B) R, beacon, topmark; 49.	
9460 M 5407.4	Siraida, breakwater, head.	33° 49.2' N 132° 04.3' E	Iso.R. period 4s	39 12	11	Red round concrete structure.	
9464 M 5407	Suo Ikada Se.	33° 51.7' N 132° 03.5' E	Mo.(A)G. period 8s	46 14	8	PORT (B) G, beacon, topmark; 31.	
9468 M 5408.5	Hiraosaga Ko.	33° 53.3' N 132° 04.9' E	F.Fl.R. period 5s	39 12	F. 6 Fl 11	Red round tower on square concrete base; 32.	
9472 M 5406.5	Maru Iwa.	33° 53.9' N 132° 02.2' E	Mo.(A)R. period 8s	36 11	9	STARBOARD (B) R, beacon, topmark; 26.	
9474 M 5406.55	Hirao Ko, breakwater, head.	33° 54.6' N 132° 02.9' E	Fl.R. period 3s	26 8	6	Red tower; 19.	
9476 M 5406.7	Suo Usi Sima.	33° 52.1' N 132° 01.2' E	Mo.(A)R. period 8s	33 10	7	STARBOARD (B) R, beacon, topmark; 26.	
9480 M 5406.8	Usisima Ko, breakwater.	33° 51.4' N 132° 00.6' E	Oc.R. period 4s	39 12	11	Red tower; 29.	
9484 M 5406	Murozumi Ko.	33° 55.2' N 131° 58.8' E	Iso.W. period 6s	39 12	11	White round concrete tower; 30.	
9486 M 5406.2	-Breakwater, W. head.	33° 55.4' N 131° 58.6' E	Fl.R. period 3s	30 9	6	Red tower; 19.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SETO NAIKAI-WESTERN PART (I)							
9488 <i>M 5405</i>	Ominase Sima.	33° 56.1' N 131° 55.9' E	Fl.W. period 3s	39 12	8	White round concrete tower; 32.	
9492 <i>M 5405.4</i>	Hikari Ko, S. breakwater.	33° 56.9' N 131° 57.0' E	Iso.G. period 6s	39 12	5	White round concrete structure; 31.	
9494 <i>M 5405.2</i>	Shimada Quay, breakwater.	33° 56.9' N 131° 55.7' E	F.Fl.G. period 3s	39 12	F 5 Fl 11	White concrete structure; 31.	
9496 <i>M 5404.5</i>	Sekiyu Seisei.	33° 58.5' N 131° 53.4' E	Mo.(U)W. period 15s	108 33	16	Sea berth.	Mo.(U)W. 15s 10m 10M 210 meters E. and 220 meters WNW.
9500 <i>M 5404.7</i>	Kudamatsu, public wharf, breakwater.	34° 00.0' N 131° 51.8' E	Oc.G. period 4s lt. 3s, ec. 1s	43 13	12	White round concrete tower; 31.	Bridge 0.9 mile S. marked by F.W., F.R., and F.G. lights.
9504 <i>M 5404.8</i>	Tokuyama Gyoko, W. breakwater.	34° 00.2' N 131° 50.2' E	Iso.G. period 4s	39 12	11	White round metal structure; 31.	
9508 <i>M 5404.4</i>	Hiburi Saki.	33° 55.8' N 131° 49.1' E	Fl.W. period 4s	121 37	12	White round concrete tower; 25.	
9512 <i>M 5398.5</i>	No Sima.	33° 56.0' N 131° 41.8' E	Iso.W. period 6s	285 87	22	White quadrangular concrete tower; 62.	F.W. illuminates beacon on Omo Se.
	RACON	(- - - - -)			9		Azimuth coverage 224° - 206°.
9512.3 <i>M 5397.5</i>	-Omo Ze.	33° 55.6' N 131° 41.2' E	Fl.(2)W. period 5s	30 9	5	ISOLATED DANGER BRB, beacon, topmark; 26.	
9516 <i>M 5399</i>	Nosima Ko, W. breakwater.	33° 56.6' N 131° 41.7' E	Iso.R. period 6s	40 12	11	Red round concrete structure on a quadrangular base; 28.	
9520 <i>M 5400</i>	Iwa Sima, Tokuyama Wan, entrance.	33° 58.8' N 131° 45.3' E	Fl.(3)W. period 12s	75 23	12	White round stone tower; 31.	
TOKUYAMA WAN:							
9524 <i>M 5400.5</i>	-Nishiga Mori, on pier.	33° 59.0' N 131° 46.9' E	F.R.	30 9	3	Framework tower, red metal pole; 18.	
9528 <i>M 5400.4</i>	-Kudamatu Ko, oil terminal jetty No. 6.	33° 59.7' N 131° 47.3' E	Mo.(U)R. period 8s	31 9	8		
9532 <i>M 5400.3</i>	--No. 7.	33° 59.6' N 131° 47.1' E	Mo.(U)R. period 13s	89 27	8		F.R. 9m 4M 170 meters NE. and 180 meters SW.
9536 <i>M 5404</i>	-Tikko, breakwater.	34° 02.8' N 131° 47.9' E	Iso.G. period 4s	43 13	12	White round concrete structure; 36.	
9544 <i>M 5401.6</i>	-Oki-no-Ikada.	34° 02.7' N 131° 47.1' E	Fl.W. period 4s	36 11	11	White round concrete tower; 26.	
9548 <i>M 5402.5</i>	-Soda Nanyo Range, front.	34° 03.3' N 131° 47.1' E	F.R.	20 6	6	White round metal structure, triangular topmark; 20.	
9552 <i>M 5402.51</i>	--Rear, 245 meters 004° 42' from front.	34° 03.5' N 131° 47.1' E	F.R.	33 10	6	White round metal structure, triangular topmark; 19.	
9556 <i>M 5401</i>	-Toyosoda, W.	34° 03.2' N 131° 45.9' E	F.G.	33 10	5	White triangular metal framework tower; 17.	
9568 <i>M 5400.8</i>	-Soda No. 4 Range, front.	34° 03.2' N 131° 45.8' E	F.Y.	56 17	9	Metal framework structure, white triangular daymark; 49.	
9572 <i>M 5400.81</i>	--Rear, 40 meters 311° 36' from front.	34° 03.2' N 131° 45.8' E	F.Y.	62 19	9	White triangular daymark, point down; 54.	
9574 <i>M 5397</i>	-Otusima Ko, breakwater.	34° 00.3' N 131° 42.4' E	Iso.R. period 6s	29 9	7	Red concrete structure; 18.	
9577 <i>M 5396</i>	Mitaziri Nakanoseki Ko.	34° 00.9' N 131° 36.7' E	Fl.R. period 3s	46 14	12	Red tower; 31.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SETO NAIKAI-WESTERN PART (I)							
9580 <i>M 5394.5</i>	Muko Sima, breakwater, head.	34° 01.3' N 131° 35.3' E	F.F.I.G. period 5s	46 14	F 5 Fl 12	White round concrete tower; 32.	
9584 <i>M 5394</i>	Nakanoseki.	34° 00.0' N 131° 32.6' E	Fl.W. period 4s	217 66	5	White square concrete tower; 36.	
9588 <i>M 5393</i>	Hofu AVIATION LIGHT.	34° 01.1' N 131° 32.1' E	Al.Fl.W.G. period 10s	777 237		Metal framework tower; 49.	
9592 <i>M 5392</i>	Nisiura Ko, breakwater, head.	34° 00.5' N 131° 30.7' E	Fl.(2)R. period 7s	43 13	12	Red round concrete structure; 31.	
9596 <i>M 5391.4</i>	Aio Gyoko, Fishery harbor, Omi breakwater.	34° 01.8' N 131° 28.1' E	Fl.G. period 3s	43 13	3	White round concrete structure; 26.	
9604 <i>M 5390.6</i>	Sabasima.	33° 57.8' N 131° 30.8' E	Fl.W. period 3s	154 47	12	White quadrangular concrete structure; 43.	
9608 <i>M 5390</i>	Kusayama Saki.	33° 58.9' N 131° 26.6' E	Iso.W. period 6s	420 128	22	White round concrete tower; 39.	Spotlight.
9612 <i>M 5390.4</i>	Aio Ko, S. breakwater, head.	33° 59.6' N 131° 25.7' E	F.Fl.R. period 4s	33 10	F 5 Fl 11	Red round concrete structure; 26.	
9616 <i>M 5390.45</i>	-Ura, breakwater, head.	34° 00.4' N 131° 25.8' E	Iso.R. period 4s	39 12	11	Red round concrete structure; 28.	
9620	Iwayano Hana.	33° 58.9' N 131° 23.9' E	F.W.	73 22		White round concrete tower; 20.	
9624 <i>M 5389</i>	Ta teisi.	33° 59.0' N 131° 22.9' E	Fl.W. period 4s	39 12	11	White round concrete structure; 26.	
9628 <i>M 5388</i>	Maruo Ko, breakwater, head.	33° 58.0' N 131° 21.5' E	Iso.G. period 8s	29 9	10	White round concrete tower; 21.	
9632 <i>M 5387.5</i>	Tokonami Ko, breakwater.	33° 56.6' N 131° 18.7' E	Iso.R. period 4s	39 12	11	Red round concrete tower; 29.	
9636 <i>M 5386</i>	Kamega Se.	33° 54.7' N 131° 17.3' E	Fl.W. period 4s	39 12	11	White tower; 46.	
9640 <i>M 5382</i>	Ubemisaki Ko, fishing harbor, W. breakwater.	33° 55.2' N 131° 15.8' E	F.F.I.G. period 5s	39 12	F 5 Fl 11	White round concrete structure on square base; 28.	
9648 <i>M 5387</i>	Motoyama.	33° 52.7' N 131° 15.1' E	Fl.W. period 3s	49 15	12	Concrete tower, black and white bands; 49.	
UBE KO:							
9652 <i>M 5387.3</i>	- <i>Seibu Sekiyu Seaberth.</i>	33° 49.8' N 131° 12.8' E	Mo.(U)W. period 8s		9	Red and white striped mooring buoy.	Horn: 1 bl. ev. 30s (bl. 5s, si. 25s). Radar reflector.
9656 <i>M 5380</i>	-E. Range, front.	33° 56.0' N 131° 15.3' E	F.R.	43 13	10	White round concrete tower; 39.	
9660 <i>M 5380.1</i>	--Rear, 240 meters 58° 12' from front.	33° 56.0' N 131° 15.5' E	F.R.	62 19	10	White round concrete tower; 52.	
9664 <i>M 5376</i>	-W. breakwater.	33° 56.3' N 131° 13.9' E	Iso.G. period 6s	39 12	5	White round concrete structure; 30.	
9668 <i>M 5372</i>	Onoda Ko, N. breakwater, head.	33° 58.4' N 131° 09.9' E	Fl.(2)G. period 6s	36 11	11	White tower; 28.	
9672 <i>M 5366</i>	Ozuki AVIATION LIGHT.	34° 02.8' N 131° 03.7' E	Al.F.I.G.W. period 10s	246 75		Metal framework tower; 49.	
9676 <i>M 4968</i>	Hime Sima.	33° 43.6' N 131° 42.2' E	Fl.(4)W. period 30s	187 57	20	White tower; 40.	Visible 116° -064°.
RACON (-----)							
9678	-Higasiura Ko.	33° 44.1' N 131° 41.2' E	Fl.G. period 3s	29 9	3	White tower; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SETO NAIKAI-WESTERN PART (I)							
9680 <i>M 4968.4</i>	Kitaura Ko, S. breakwater.	33° 43.9' N 131° 38.9' E	Fl.(2)R. period 6s	39 12	3	Red round concrete tower; 31.	
9684 <i>M 4968.6</i>	Himesima Ko, E. breakwater.	33° 42.9' N 131° 39.1' E	F.Fl.R. period 3s	43 13	F 6 Fl 12	Red round concrete tower on quadrangular base; 32.	
9688 <i>M 4969</i>	Imi Ko, N. breakwater.	33° 41.1' N 131° 36.3' E	F.Fl.R. period 5s	43 13	F 6 Fl 12	Red round concrete tower; 28.	
9692 <i>M 4972</i>	Taketazu Ko, N. breakwater.	33° 40.5' N 131° 34.3' E	Iso.R. period 6s	39 12	11	Red round concrete tower; 28.	
9696 <i>M 4971</i>	Biwa Saki.	33° 41.1' N 131° 33.6' E	Fl.W. period 3s	164 50	7	White round concrete tower; 32.	
9700 <i>M 4974</i>	Kakaji.	33° 41.0' N 131° 31.4' E	Iso.W. period 8s	79 24	5	White round concrete tower; 25.	
9704 <i>M 4974.2</i>	Kakazi Ko, N. breakwater.	33° 40.3' N 131° 31.5' E	F.Fl.R. period 6s	36 11	F 6 Fl 11	Red round concrete tower; 28.	
9708 <i>M 4974.6</i>	Bungo Takada Ko, training wall.	33° 35.7' N 131° 25.4' E	Fl.(2)R. period 8s 2 fl. 3s, ec. 5s	36 11	4	Red round concrete tower; 28.	
9712 <i>M 4975</i>	Buzen Nagasu Ko, training wall.	33° 34.6' N 131° 22.4' E	Iso.W. period 8s	36 11	11	White round structure on square base; 26.	
9714 <i>M 4975.5</i>	Buzen Imazu Ko.	33° 35.0' N 131° 16.4' E	Iso.R. period 4s	39 12	11	Red tower; 28.	
9716 <i>M 4976.2</i>	Imazu.	33° 35.9' N 131° 16.6' E	Fl.(2)W. period 5s	43 13	12	ISOLATED DANGER BRB, beacon, topmark; 46.	
9720 <i>M 4978</i>	Nakatu Ko.	33° 36.8' N 131° 15.1' E	Fl.R. period 3s	39 12	9	Red round tower on square concrete base; 30.	
9724 <i>M 4978.5</i>	Koiwai Ko, breakwater, head.	33° 37.0' N 131° 11.4' E	Fl.R. period 5s	46 14	12	Red tower; 33.	
9726 <i>M 4977</i>	Nakatu Ko, W. training wall, head.	33° 37.9' N 131° 11.7' E	Mo.(A)R. period 8s	39 12	9	STARBOARD (B) R, beacon, topmark; 31.	
9728 <i>M 4977.3</i>	Yositomi Ko.	33° 37.0' N 131° 10.9' E	Iso.G. period 6s	32 10	6	White concrete structure; 22.	
9730 <i>M 4979</i>	Unosima Ko.	33° 37.8' N 131° 07.6' E	Fl.(2)R. period 8s 2 fl. 3s, ec. 5s	43 13	11	Red round concrete tower; 31.	
9734 <i>M 4976.6</i>	Tuiki AVIATION LIGHT.	33° 40.4' N 131° 02.5' E	Al.Fl.W.G. period 10s	125 38		Metal framework tower.	
9736 <i>M 4982.5</i>	-S. breakwater, S. head.	33° 47.3' N 131° 00.5' E	Fl.R. period 3s	32 10	4	Red tower; 19.	
9738 <i>M 4981</i>	Kando Ko, E. breakwater.	33° 47.8' N 131° 00.8' E	Fl.(2)G. period 8s	36 11	6	White round tower; 25.	
9742 <i>M 4982</i>	-N. breakwater.	33° 47.8' N 131° 00.9' E	Fl.(2)R. period 8s	36 11	11	Red round structure on square base; 28.	
9744 <i>M 4982.3</i>	-Observation tower.	33° 47.8' N 131° 04.5' E	Mo.(U)W. period 8s	33 10	7		Auxiliary light Mo.(U)W. 8s 8m 7M. Radar Reflector.
9746 <i>M 4983</i>	Kitakyushu AVIATION LIGHT.	33° 50.0' N 130° 56.5' E	Al.Fl.W.G. period 4.3s	62 19		Iron framework tower.	
9750 <i>M 4984</i>	Inoura Ko, breakwater.	33° 50.6' N 130° 59.6' E	Fl.(2)G. period 8s	43 13	8	White tower; 32.	
9754 <i>M 4985</i>	Sinmozi, breakwater.	33° 52.4' N 131° 00.6' E	Fl.G. period 5s	59 18	10	White tower; 53.	
9756 <i>M 4985.5</i>	-W. breakwater.	33° 52.5' N 131° 00.2' E	Fl.R. period 5s	46 14	7	Red tower; 31.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SETO NAIKAI-WESTERN PART (I)							
9758 <i>M 4986</i>	Hisyakuda Ko, breakwater.	33° 54.1' N 130° 59.9' E	Fl.(2)R. period 8s	39 12	5	Red tower; 28.	
JAPAN-SETO NAIKAI-WESTERN PART (II)							
9762 <i>M 5360</i>	Manzyu Sima.	33° 59.5' N 131° 01.7' E	Fl.W. period 4s	52 16	13	White round concrete structure; 52.	Visible 245° -092°.
9766 <i>M 5312</i>	He Saki.	33° 57.6' N 131° 01.4' E	F.Fl.W. period 15s	128 39	17	White round granite tower; 33.	
9770 <i>M 5358</i>	Tyohu.	33° 59.7' N 130° 59.8' E	Iso.G. period 6s	39 12	3	White tower; 28.	
9774 <i>M 5355</i>	Moji Saki.	33° 57.7' N 130° 57.8' E	Iso.W. period 6s	33 10	5	White tower; 24.	Visible 029° -268°. Two F.R. lights are shown from outer corners of pier head at Moji Ko.
9778 <i>M 5356</i>	Simonoseki Range, front.	33° 57.7' N 130° 57.2' E	F.Y.	43 13	13	White round metal tower on masonry base; 39.	
9782 <i>M 5356.1</i>	--Rear, 163 meters 240° 06' from front.	33° 57.7' N 130° 57.1' E	F.Y.	69 21	13	White metal framework tower, diamond daymark; 17.	
9786 <i>M 5353</i>	Sotohama, breakwater.	33° 57.3' N 130° 56.7' E	Fl.R. period 4s	26 8	4	Red square metal framework tower; 18.	
9788 <i>M 5352</i>	Kannonzaki.	33° 57.1' N 130° 56.8' E	Fl.G. period 4s	27 8	7	White tower; 20.	
9790 <i>M 5354</i>	Mozi No. 2 basin, breakwater.	33° 57.3' N 130° 57.7' E	Fl.G. period 3s	33 10	3	White concrete tower; 30.	
9792 <i>M 5355.2</i>	-No. 1 basin, breakwater.	33° 56.6' N 130° 57.7' E	Iso.R. period 6s	24 7	7	Red tower; 23.	
9794 <i>M 5351</i>	-Simonoseki ku on Hananotyo Wharf, breakwater.	33° 56.9' N 130° 56.0' E	Fl.R. period 5s	32 10	3	Red round concrete structure; 28.	
9799	Hiko Sima Range, front.	33° 55.9' N 130° 55.6' E	F.Y.	89 27	13	White tower; 85.	
9799.5	-Rear, 90 meters 220° from front.	33° 55.9' N 130° 55.5' E	F.Y.	115 35	13	White tower; 46.	
9804 <i>M 5340.6</i>	Oseto No. 3 Range, front.	33° 55.0' N 130° 56.4' E	F.Y.	85 26	13	White round concrete tower, triangular topmark; 61.	
9808 <i>M 5340.61</i>	-Rear, 340 meters 059° from front.	33° 55.0' N 130° 56.5' E	F.Y.	138 42	13	White round concrete tower, triangular daymark; 42.	
9816 <i>M 5347</i>	Mozi Dairi, breakwater.	33° 54.6' N 130° 56.0' E	Fl.(2)R. period 6s	39 12	5	Red round concrete tower; 31.	
9820 <i>M 5340.3</i>	No. 2 Range, front.	33° 53.7' N 130° 55.3' E	F.Y.	66 20	13	White round concrete tower, triangular daymark; 60.	
9824 <i>M 5340.31</i>	-Rear, 140 meters 112° from front.	33° 53.9' N 130° 55.3' E	F.Y.	98 30	13	White round concrete tower, triangular daymark; 92.	
9836 <i>M 5340</i>	No. 1 Range , front.	33° 53.3' N 130° 54.9' E	F.Y.	131 40	17	White round concrete tower, triangular daymark; 59.	
9840 <i>M 5340.1</i>	-Rear, 260 meters 141° from front.	33° 53.2' N 130° 55.0' E	F.Y.	259 79	20	White round metal tower, triangular daymark; 38.	
9844 <i>M 5345</i>	Sunatu, breakwater.	33° 53.6' N 130° 53.6' E	Fl.R. period 5s	39 12	5	Red round concrete tower on square base; 36.	
9848 <i>M 5344</i>	Sunatu Fairway Range, front.	33° 53.3' N 130° 53.8' E	F.G.	30 9	10	White round concrete structure, arrowhead topmark; 28.	
9852 <i>M 5344.1</i>	-Rear, 780 meters 232° 12' from front.	33° 53.1' N 130° 53.4' E	F.G.	46 14	12	White round concrete structure, arrowhead topmark; 42.	

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JAPAN-SETO NAIKAI-WESTERN PART (II)							
9860 <i>M 5339</i>	Simonoseki, basin, breakwater.	33° 55.2' N 130° 54.0' E	Fl.(2)G. period 8s	33 10	3	White tower; 28.	
9864 <i>M 5338.4</i>	Arata, breakwater, head.	33° 55.3' N 130° 54.0' E	Oc.G. period 4s	43 13	12	White round concrete structure; 32.	
9868 <i>M 5343.7</i>	Kokura, detached breakwater.	33° 54.4' N 130° 53.2' E	Iso.R. period 4s	36 11	5	Red round concrete tower; 31.	
9872 <i>M 5343</i>	Hiagari, No. 1 breakwater.	33° 54.6' N 130° 52.8' E	Fl.(2)R. period 6s	39 12	5	Red tower; 31.	
9876 <i>M 5343.4</i>	--No. 2 breakwater.	33° 54.7' N 130° 52.7' E	Fl.R. period 4s	40 12	5	Red tower; 31.	
9880 <i>M 5302</i>	Sakai Kawa Mouth Basin, breakwater.	33° 54.3' N 130° 51.4' E	Iso.G. period 6s	30 9	6	White tower; 24.	
9888 <i>M 5300</i>	Tobata Koro Passage , range, front.	33° 55.1' N 130° 51.6' E	F.G.	82 25	15	White quadrangular metal framework tower, triangular topmark, point up; 79.	
9892 <i>M 5300.1</i>	-Rear, 63 meters 213° from front.	33° 55.1' N 130° 51.6' E	F.G.	102 31	15	White quadrangular metal framework tower, triangular topmark, point down; 98.	
9896 <i>M 5301</i>	-Seitetsu Tobata Range, front.	33° 54.8' N 130° 51.1' E	F.G.	59 18	13	White metal post, triangular topmark; 52.	
9900 <i>M 5301.1</i>	--Rear, 360 meters 246° 18' from front.	33° 54.7' N 130° 50.9' E	F.G.	95 29	14	White triangular tower; 85.	
9912 <i>M 5297</i>	-Dokai Wan Entrance, breakwater.	33° 56.5' N 130° 51.0' E	Fl.R. period 6s	39 12	6	Red tower; 31.	
9916	-Passage, bridge.	33° 54.0' N 130° 49.1' E	F.W.	141 43	11		F.R. and F.G. lights mark either end of bridge.
9924.5 <i>M 5335.2</i>	-Outer breakwater, E. side.	33° 57.3' N 130° 53.0' E	Fl.R. period 3s	30 9	6		
9928 <i>M 5335.4</i>	-E. breakwater, head.	33° 57.0' N 130° 53.1' E	Fl.G. period 3s	39 12	6	White tower; 31.	
9932 <i>M 5337</i>	Koseto Range, front.	33° 56.8' N 130° 54.7' E	F.Y.	66 20	13	White tower, white rectangular daymark; 29.	
9936 <i>M 5337.1</i>	-Rear, 57 meters 130° from front.	33° 56.8' N 130° 54.7' E	F.Y.	85 26	15	White tower, white rectangular daymark; 30.	
9942 <i>M 5334.5</i>	Masima Ko.	33° 57.9' N 130° 51.2' E	Iso.G. period 8s	36 11	4	White tower; 18.	
9944 <i>M 5334</i>	Mutsureshima.	33° 58.7' N 130° 52.1' E	Fl.W. period 3s	92 28	12	White round granite tower; 36.	Visible 140° -12° .
9946 <i>M 5334.2</i>	-Breakwater, head.	33° 58.3' N 130° 52.2' E	Fl.R. period 3s	23 7	3	Red tower; 16.	
9948 <i>M 5332</i>	Yasuoka Ko, breakwater.	34° 01.2' N 130° 54.7' E	Iso.G. period 6s	26 8	6	White tower; 19.	
9952 <i>M 5326</i>	Omozi Iwa.	34° 00.6' N 130° 48.7' E	Fl.W. period 3s	49 15	5	White tower; 49.	Visible 031° -330.
9953 <i>M 5327.6</i>	-Breakwater, head.	33° 59.6' N 130° 48.9' E	Fl.G. period 3s	30 9	5	White tower; 20.	
9954 <i>M 5327.2</i>	Ainosima Ko.	33° 59.5' N 130° 49.3' E	Fl.R. period 6s	33 10	7	Red tower; 19.	
9956 <i>M 5327</i>	Ainosima Ko, E. breakwater, head.	33° 59.2' N 130° 49.1' E	Fl.(2)G. period 6s	33 10	6	White tower; 27.	
9960 <i>M 5328</i>	Shira Su.	33° 59.0' N 130° 47.5' E	Fl.W. period 4s	52 16	7	White round metal tower, black bands, stone base; 56.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SETO NAIKAI-WESTERN PART (II)							
9962 <i>M 5324</i>	Sirasima.	34° 01.1' N 130° 44.4' E	Mo.(U)W. period 12s	128 39	15	Oil storage seaberth.	Mo.(U)W. 12s 140 meters and 240 meters NNW., 160 meters and 260 meters SSW. Horn: Mo.(U) ev. 30s.
9962.2 <i>M 5324.4</i>	-S. breakwater.	34° 00.2' N 130° 43.9' E	Fl.G. period 4s	43 13	12	White tower; 36.	Horn: 1 bl. ev. 20s.
9962.4 <i>M 5324.5</i>	--Inner breakwater.	34° 00.2' N 130° 43.9' E	Fl.R. period 4s	26 8	9	Red mast; 16.	
9962.6 <i>M 5324.7</i>	-Outer breakwater, S. corner.	34° 00.2' N 130° 44.2' E	Fl.W. period 3s	59 18	10		
9962.8 <i>M 5324.8</i>	--N. corner.	34° 00.7' N 130° 44.4' E	Fl.W. period 5s	59 18	10		
JAPAN-SHIKOKU							
9964 <i>M 5577.06</i>	Izarki Ko.	33° 48.0' N 134° 40.2' E	Oc.R. period 4s	40 12	5	Red tower; 19.	
9983 <i>M 5577.1</i>	Yuki Ko, breakwater.	33° 47.1' N 134° 38.7' E	F.Fl.(2)R. period 6s	46 14	F. 6 Fl 12	Red tower; 31.	
9984 <i>M 5577.15</i>	Breakwater, head.	33° 46.5' N 134° 36.7' E	Fl.R. period 5s	52 16	12	Red tower; 33.	
9988 <i>M 5577.2</i>	Yuki Ko, E. breakwater.	33° 46.0' N 134° 36.0' E	F.Fl.R. period 3s	33 10	F. 6 Fl 11	Red round concrete structure; 28.	
10000 <i>M 5578.5</i>	Asebino Hana.	33° 44.1' N 134° 33.9' E	Fl.W. period 5s	545 166	19	White tower; 39.	Visible 210° -091° .
10004 <i>M 5578.8</i>	Hiwasa Ko, N. breakwater.	33° 43.6' N 134° 32.7' E	F.Fl.(2)R. period 10s 2 fl. 3s, ec. 7s	33 10	F. 6 Fl 11	Red round concrete tower; 28.	
10012 <i>M 5578.6</i>	Hiwasa Ko, offing breakwater, N. head.	33° 43.6' N 134° 32.8' E	Fl.G. period 3s	43 13	8	White round concrete structure; 28.	
10016 <i>M 5579.4</i>	Mugi ko.	33° 39.6' N 134° 26.7' E	Fl.R. period 3s	49 15	12	Red tower; 32.	
10024 <i>M 5579.6</i>	-E. breakwater.	33° 40.0' N 134° 25.0' E	Iso.R. period 6s	43 13	12	Red round concrete structure; 36.	
10028 <i>M 5579.7</i>	-W. breakwater.	33° 39.5' N 134° 25.4' E	Iso.W. period 6s	46 14	12	White round concrete structure; 31.	
10032 <i>M 5581</i>	Deba Jima.	33° 37.7' N 134° 25.6' E	Fl.(2)W. period 10s 2 fl. 4s, ec. 6s	279 85	20	White octagonal concrete structure; 36.	
10036 <i>M 5581.1</i>	-E. Breakwater, N. end of island.	33° 38.3' N 134° 25.3' E	Fl.G. period 3s	33 10	11	White round concrete structure.	
10040 <i>M 5581.2</i>	Asakawa Ko, E. breakwater.	33° 37.0' N 134° 22.0' E	F.Fl.R. period 6s	43 13	F. 6 Fl 12	Red round concrete tower; 33.	
10044 <i>M 5581.4</i>	Tomoura, breakwater.	33° 35.5' N 134° 21.9' E	Fl.R. period 4s	39 12	9	Red round concrete tower; 31.	
10048 <i>M 5581.6</i>	Shishikui Ko, S. breakwater.	33° 33.5' N 134° 18.9' E	F.Fl.G. period 5s	36 11	F. 5 Fl 11	White round concrete tower; 31.	
10052 <i>M 5581.8</i>	Awa Take-ga-Sima.	33° 32.5' N 134° 19.2' E	Fl.W. period 8s	318 97	23	Round concrete structure, red and white bands; 43.	
10056 <i>M 5584</i>	Kannoura.	33° 32.4' N 134° 18.2' E	Iso.W. period 6s	138 42	18	White octagonal brick structure; 27.	Visible 211° -031° .
10060 <i>M 5584.3</i>	-N. breakwater.	33° 32.3' N 134° 18.5' E	Fl.G. period 3s	26 8	3	White tower; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SHIKOKU							
10064 <i>M 5585</i>	-Hasu Bae.	33° 32.0' N 134° 19.0' E	Fl.R. period 5s	59 18	7	Red round concrete tower; 46.	
10065 <i>M 5585.3</i>	None Ko.	33° 29.6' N 134° 16.5' E	Fl.G. period 3s	43 13	5	White tower; 23.	
10066 <i>M 5585.65</i>	Sakihama.	33° 23.3' N 134° 13.1' E	Fl.G. period 3s	49 15	8	White tower; 32.	
10068 <i>M 5585.5</i>	Sakihama Range, front.	33° 23.5' N 134° 12.6' E	Oc.R. period 8s	49 15	9	White round concrete tower; 49.	
10072 <i>M 5585.6</i>	-Rear, 40 meters 237° 36' from front.	33° 23.5' N 134° 12.6' E	Oc.W. period 8s lt. 6s, ec. 2s	85 26	12	White round concrete tower; 23.	
10076 <i>M 5585.8</i>	Mitu Ko, N. breakwater.	33° 17.0' N 134° 11.0' E	F.Fl.R. period 6s	43 13	F. 6 Fl 12	Red round concrete tower; 33.	
10080 <i>M 5585.7</i>	Shiina Ko, E. breakwater.	33° 19.0' N 134° 12.0' E	Iso.R. period 6s	49 15	12	Red round concrete tower; 33.	
10084 <i>M 5586</i>	Muroto Zaki.	33° 14.8' N 134° 10.5' E	Fl.W. period 10s	509 155	30	White round metal tower; 50.	DGPS Station 741 meters N.
	RAMARK				22		
	MUROTOMISAKI KO:						
10088 <i>M 5587</i>	-W. breakwater.	33° 15.6' N 134° 10.0' E	F.Fl.G. period 4s	46 14	F. 5 Fl 12	White tower; 36.	
10092 <i>M 5587.2</i>	-W. breakwater extension.	33° 15.6' N 134° 09.9' E	F.Fl.R. period 4s	56 17	F. 8 Fl 13	Red round concrete structure; 43.	
10096 <i>M 5587.3</i>	-S. breakwater.	33° 15.6' N 134° 09.8' E	Fl.G. period 3s	56 17	10	White tower; 46.	
10098 <i>M 5587.4</i>	-Breakwater, head.	33° 15.5' N 133° 09.7' E	Fl.R. period 3s	66 20	11	Red tower; 52.	
	TOSA WAN MUROTSU KO:						
10100 <i>M 5589</i>	-S. breakwater.	33° 16.9' N 134° 08.7' E	Fl.(2)R. period 6s	62 19	6	Red tower; 56.	
10104 <i>M 5590</i>	-N. jetty, S. head.	33° 17.0' N 134° 09.0' E	Iso.G. period 6s	36 11	11	White round concrete structure; 28.	
10108 <i>M 5591</i>	Hana Saki.	33° 22.1' N 134° 02.5' E	Fl.(2)W. period 20s	256 78	23	White square concrete tower; 36.	Visible 323° -171°.
10112 <i>M 5592.2</i>	Nahari Ko, breakwater, head.	33° 25.0' N 134° 01.0' E	Fl.R. period 3s	46 14	5	Red round concrete structure; 33.	
10116 <i>M 5592.3</i>	Nahari Ko.	33° 25.0' N 134° 01.0' E	Fl.G. period 3s	39 12	7	White tower; 31.	
10118 <i>M 5592.4</i>	--	33° 24.9' N 134° 00.9' E	Fl.(2)R. period 6s	52 16	5	Red tower; 28.	
10120 <i>M 5592.5</i>	To-No Hama.	33° 26.3' N 133° 58.0' E	Fl.W. period 4s	79 24	14	White round concrete tower; 55.	A F.W. light visible over an arc of 7° over coastal shoals.
10124 <i>M 5592.55</i>	Yasuda Ko.	33° 26.7' N 133° 57.3' E	Fl.R. period 5s	49 15	3	Red round concrete structure; 31.	F.W. floodlight 120 meters WNW.
10128 <i>M 5592.6</i>	Aki Ko, E. breakwater.	33° 29.9' N 133° 53.2' E	Iso.R. period 4s	49 15	4	Red tower; 32.	
10132 <i>M 5592.8</i>	Sumiyosi Ko, E. breakwater.	33° 31.0' N 133° 46.0' E	Fl.R. period 3s	49 15	12	Red round concrete structure; 31.	
10136 <i>M 5593</i>	Tei Saki.	33° 31.0' N 133° 46.0' E	Oc.W. period 6s lt. 4s, ec. 2s	95 29	15	White round concrete tower; 39.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SHIKOKU							
10140 <i>M 5593.2</i>	Tei Ko, breakwater.	33° 31.4' N 133° 45.3' E	Fl.(2)R. period 6s	49 15	6	Red tower; 28.	
10142 <i>M 5593.3</i>	Akaoka Ko, breakwater.	33° 31.9' N 133° 43.5' E	Fl.(2)G. period 6s	36 11	3	White tower; 16.	
10144 <i>M 5593.4</i>	Kochi (Koti).	33° 31.9' N 133° 41.9' E	Fl.R. period 3s	49 15	12	Red tower; 32.	
10148 <i>M 5593.5</i>	Kochi (Koti) AVIATION LIGHT.	33° 32.7' N 133° 40.7' E	Al.FI.W.G. period 4.3s	72 22		Metal framework tower; 52.	
KOCHI KO:							
10150 <i>M 5595.2</i>	-Outer breakwater.	33° 29.9' N 133° 35.6' E	Fl.G. period 4s	33 10	6	White tower; 18.	
10151 <i>M 5595.25</i>	--W. head.	33° 29.8' N 133° 35.2' E	Fl.R. period 4s	39 12	6	Red tower; 18.	
10152 <i>M 5594</i>	-Ryuzu Saki.	33° 30.0' N 133° 35.0' E	Fl.W. period 5s	164 50	19	White round concrete structure; 49.	Visible 222° 30' -063° .
10154 <i>M 5595.3</i>	-No. 1 breakwater.	33° 30.2' N 133° 35.2' E	Fl.R. period 3s	39 12	6	Red tower; 9.	
10156 <i>M 5595</i>	-Breakwater, S. side of harbor entrance.	33° 29.9' N 133° 35.1' E	Iso.G. period 6s	52 16	8	White square metal framework tower; 36.	
10160 <i>M 5594.8</i>	-Tanezaki, breakwater.	33° 30.1' N 133° 34.6' E	Iso.R. period 6s	39 12	11	Red round concrete structure; 33.	F.W., F.R. and F.G. mark bridge 790 meters S.W.
10172 <i>M 5595.6</i>	-Urado Training Wall.	33° 29.7' N 133° 34.1' E	Oc.G. period 4s	36 11	11	White round concrete structure; 28.	
10176 <i>M 5595.7</i>	-Nagahama Training Wall.	33° 29.8' N 133° 33.7' E	Fl.G. period 3s	33 10	11	White round concrete structure; 28.	
10180 <i>M 5595.74</i>	-Mimase, S. breakwater, head.	33° 30.0' N 133° 33.6' E	Fl.(2)G. period 6s	33 10	11	White round concrete structure; 28.	
10184 <i>M 5595.8</i>	-Mimase.	33° 30.2' N 133° 33.7' E	Iso.G. period 4s	27 8	6	White tower; 22.	
10188 <i>M 5596.3</i>	Shirono Hana.	33° 25.6' N 133° 27.9' E	Iso.W. period 6s	187 57	20	White square concrete tower; 25.	
10190 <i>M 5596.25</i>	Usa Ko.	33° 26.5' N 133° 27.6' E	Fl.(2)R. period 6s	43 13	9	Red tower; 31.	
10192 <i>M 5596.2</i>	Usa Ko, training wall, 2.2 km. 323° from Shirano Hana.	33° 26.7' N 133° 27.2' E	Fl.G. period 3s	36 11	8	White round concrete tower; 31.	
10196 <i>M 5596.4</i>	Yamazaki Hana.	33° 22.7' N 133° 17.8' E	Fl.(3)W. period 13s	223 68	17	White round concrete square base tower; 36.	F.W. illuminates beacon on Uka Hae 160 meters NW.
10198 <i>M 5596.46</i>	-Breakwater, head.	33° 22.9' N 133° 17.1' E	Fl.G. period 5s	39 12	6	White tower; 19.	
10200 <i>M 5596.44</i>	Susaki Ko, Hama-Tyo, breakwater.	33° 23.0' N 133° 18.0' E	Fl.G. period 3s	36 11	11	White round concrete structure; 31.	
10204 <i>M 5596.5</i>	Isshi Hae.	33° 19.0' N 133° 19.0' E	Fl.(2)W. period 5s	69 21	12	ISOLATED DANGER BRB, beacon, topmark.	
10208 <i>M 5596.6</i>	Hutana Shima.	33° 19.0' N 133° 15.0' E	Fl.(2)W. period 7s 2 fl. 3s, ec. 4s	115 35	16	White round concrete tower; 31.	Floodlights shown on rocks close SSE.
10210 <i>M 5596.7</i>	Kure Ko, breakwater, head.	33° 19.4' N 133° 14.2' E	Fl.R. period 3s	42 13	12		
10212 <i>M 5597</i>	Kaminokae Ko, E. entrance, breakwater, head.	33° 16.6' N 133° 15.0' E	Fl.G. period 3s	31 9	11	White round concrete tower; 27.	
10216 <i>M 5598.1</i>	Urabun Ko, breakwater.	33° 09.7' N 133° 13.1' E	Fl.R. period 5s	43 13	4	Red tower; 32.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SHIKOKU							
10220 <i>M 5598.15</i>	Okitsu Saki, WNW.	33° 09.7' N 133° 12.3' E	F.F.I.R. period 3s	46	F. 3 Fl 7	Red round concrete tower; 33.	
10224 <i>M 5598</i>	Okitsu Saki.	33° 09.0' N 133° 13.0' E	Fl.(2)W. period 15s 2 fl. 4s, ec. 11s	614	33	White octagonal concrete tower; 46.	Visible 204° -043° .
10228 <i>M 5598.3</i>	Saga, Ko Groin.	33° 04.5' N 133° 07.2' E	Fl.(2)G. period 6s	66	7	White tower; 39.	
10234 <i>M 5598.25</i>	-S.	33° 04.0' N 133° 06.9' E	Fl.G. period 3s	62	8	White concrete structure; 43.	
10236 <i>M 5599</i>	Kamikawaguchi Ko.	33° 02.0' N 133° 03.8' E	Iso.W. period 6s	121	17	White tower; 29.	F.W. illuminates obstruction close by.
10240 <i>M 5599.2</i>	-N. breakwater.	33° 02.1' N 133° 03.6' E	Iso.G. period 6s	33	11	White tower; 31.	
10244 <i>M 5599.4</i>	Tanoura Ko.	32° 59.6' N 133° 00.6' E	Fl.(3)W. period 13s	52	13	White round tower; 31.	
10246 <i>M 5599.6</i>	-Tanoura.	32° 59.7' N 133° 00.6' E	Oc.G period 4s	26	6	White tower; 19.	
10248 <i>M 5599.3</i>	-Nakamura.	33° 00.6' N 133° 00.8' E	Fl.R. period 3s	49	7	Red tower; 31.	F.W. spotlight marks shoal 110 meters SSE.
10252 <i>M 5598.5</i>	Inomino Misaki.	33° 01.0' N 133° 06.0' E	Fl.(2)W. period 8s	144	18	White tower; 36.	
10256 <i>M 5598.7</i>	Ida Ko, breakwater.	33° 02.0' N 133° 05.0' E	Fl.G. period 4s	36	11	White round concrete structure; 31.	F.W. illuminates Oki no Hirasao about 140 meters SW.
10258 <i>M 5600.2</i>	Tosa Shimoda Ko.	32° 56.0' N 132° 59.3' E	Fl.R. period 3s	28	3	Red concrete structure; 18.	
10260 <i>M 5600</i>	Nishi Michi Saki.	32° 55.8' N 133° 00.0' E	Fl.W. period 4s	131	12	White tower; 43.	F.W. illuminates head of training wall 160 meters N.
10264 <i>M 5601</i>	Nuno Zaki.	32° 51.7' N 133° 59.8' E	Fl.W. period 5s	190	20	White round concrete tower; 33.	
10266 <i>M 5601.3</i>	Simonokae Ko.	32° 51.5' N 132° 57.9' E	Fl.G. period 3s	46	5	White concrete structure; 36.	
10270 <i>M 5601.9</i>	Iburi Ko.	32° 48.2' N 132° 58.0' E	Fl.(2)G. period 6s	49	5	White tower; 33.	
10272 <i>M 5601.8</i>	Iburi Ko, breakwater.	32° 48.1' N 132° 58.0' E	Fl.G. period 5s	46	3	White tower; 31.	
10273 <i>M 5601.7</i>	Kubotu Ko.	32° 47.1' N 133° 00.0' E	Fl.G. period 3s	46	12	White round tower; 34.	
10276 <i>M 5601.6</i>	Kubotsu Zaki.	32° 47.0' N 133° 00.3' E	Fl.W. period 15s	167	19	White round concrete structure; 36.	Visible 118° -329° . Auxiliary light illuminates Yusuga Bae about 440 meters ENE.
10284 <i>M 5602</i>	Ashizuri Zaki.	32° 43.2' N 133° 01.4' E	Fl.(3)W. period 30s 3 fl. 12s, ec. 18s	200	20	White square concrete tower; 59.	Visible 201° -091° . Auxiliary light illuminates Kogane Bae about 410 meters S.
	RAMARK				22		
10286 <i>M 5602.4</i>	Asizuri Misaki, on point.	32° 43.1' N 133° 00.6' E	Fl.R. period 3s	52	12	Red tower; 31.	
10288 <i>M 5603</i>	Usu-bae Saki.	32° 43.0' N 132° 59.0' E	Fl.(2)W. period 10s 2 fl. 4s, ec. 6s	167	19	White octagonal concrete structure; 31.	An auxiliary F.W. illuminates the rock about 210 meters SSW.
10292 <i>M 5607.3</i>	Asizuri Ko, W. breakwater.	32° 46.7' N 132° 56.1' E	Iso.G. period 6s	52	4	White tower; 36.	

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JAPAN-SHIKOKU							
10296 <i>M 5604</i>	Tosa Shimizu.	32° 45.8' N 132° 57.0' E	Fl.W.R. period 4s	151 46	18	White square concrete tower; 42.	R. 021° -084° , W. elsewhere.
10301 <i>M 5607.4</i>	Ashizuri Ko, E. breakwater.	32° 46.5' N 132° 56.1' E	Fl.R. period 3s	56 17	4	Red tower; 33.	
10304 <i>M 5605</i>	-Hira Bae, breakwater, about 1061 meters 164° 30' from Maki Yama.	32° 45.7' N 132° 57.3' E	Iso.R. period 4s	43 13	12	Red round concrete tower; 31.	
10308 <i>M 5606</i>	-Tobi Shima, breakwater.	32° 46.2' N 132° 57.3' E	Fl.G. period 5s	43 13	5	White tower; 28.	
10310 <i>M 5607.5</i>	Chihiro Saki, 2.6 km NNW.	32° 47.2' N 132° 51.9' E	Fl.G. period 5s	29 9	5	White concrete tower; 18.	
10312 <i>M 5608</i>	Kano (Kanai) Saki.	32° 45.0' N 132° 48.0' E	Fl.W. period 5s	131 40	17	White octagonal brick tower; 27.	Visible 216° -098° .
10316 <i>M 5608.4</i>	Kosaitsuno Ko, breakwater.	32° 45.4' N 132° 47.1' E	Iso.G. period 4s	56 17	4	White round concrete structure; 32.	
10320 <i>M 5608.7</i>	Komame Saki.	32° 46.9' N 132° 42.0' E	Fl.W. period 4s	298 91	20	White round concrete structure; 39.	
10324 <i>M 5610.12</i>	Okino Shima, N. point.	32° 45.3' N 132° 32.7' E	Fl.W. period 3s	220 67	5	White concrete structure; 33.	
10328 <i>M 5609.7</i>	Tosa-Moshima Ko, outer breakwater, head.	32° 44.1' N 132° 32.9' E	F.Fl.R. period 3s	52 16	F. 6 Fl 12	Red round concrete structure; 31.	
10330 <i>M 5610.17</i>	Uguru Sima.	32° 48.0' N 132° 30.0' E	Iso.W. period 8s	354 108	17	White concrete structure; 31.	
10332 <i>M 5610</i>	Kushiga Hana.	32° 42.3' N 132° 32.6' E	Fl.(2)W. period 20s	571 174	21	White square concrete tower; 49.	Visible 240° -170° 30' .
10336 <i>M 5609.5</i>	Kashiwa Jima.	32° 46.0' N 132° 37.0' E	Fl.(2)W. period 10s 2 fl. 4s, ec. 6s	512 156	20	White round concrete tower; 36.	
10340 <i>M 5609</i>	Kashiwa Jima Ko Entrance.	32° 46.2' N 132° 37.9' E	Iso.R. period 4s	46 14	12	Red round concrete tower; 33.	

JAPAN-SHIKOKU AND KYUSHU

UWAJIMA KO:							
10344 <i>M 5619</i>	-Breakwater.	33° 13.4' N 132° 33.2' E	Iso.G. period 6s	26 8	6	White tower; 18.	
10348 <i>M 5619.2</i>	-W. breakwater.	33° 13.4' N 132° 32.8' E	Fl.R. period 5s	33 10	11	Red tower; 28.	
10352 <i>M 5621</i>	Yamashita Suido.	33° 16.3' N 132° 28.7' E	Oc.R. period 4s lt. 3s, ec. 1s	32 10	11	Red round concrete tower; 25.	
10356 <i>M 5618</i>	-Doga Saki.	33° 12.8' N 132° 31.1' E	Fl.W. period 4s	92 28	15	Red round concrete tower; 25.	
10358 <i>M 5618.2</i>	Kusima Ko, breakwater.	33° 13.1' N 132° 31.6' E	Fl.R. period 3s	23 7	4	Red concrete structure; 18.	
10360 <i>M 5616.4</i>	Bozu Bae.	33° 12.4' N 132° 28.7' E	Mo.(A)G. period 8s	33 10	5	Black round concrete tower; 26.	
10368 <i>M 5616.2</i>	Miti Shimi, No. 1 breakwater.	33° 12.7' N 132° 26.5' E	Fl.(2)R. period 3s	26 8	3	Red round concrete structure; 31.	
10372 <i>M 5623</i>	Sa Shima.	33° 26.4' N 132° 21.7' E	Fl.W. period 3s	190 58	7	White round concrete structure; 30.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SHIKOKU AND KYUSHU							
10376 <i>M 5623.4</i>	Zeku Iwa.	33° 26.3' N 132° 23.1' E	Mo.(A)R. period 8s	43 13	10	STARBOARD (B) R, beacon, topmark; 30.	
10378 <i>M 5623.5</i>	Yawatahama Ko, breakwater.	33° 27.2' N 132° 24.5' E	Oc.G. period 4s	36 11	11	White tower; 28.	
10380 <i>M 5623.6</i>	Muronohana.	33° 28.5' N 132° 21.1' E	Iso.W. period 6s	102 31	5	White tower; 36.	
10384 <i>M 5624.5</i>	Mekko Hana.	33° 27.1' N 132° 19.0' E	Oc.(2)W. period 8s	210 64	12	White tower; 36.	
10388 <i>M 5622.7</i>	Ko Sima.	33° 22.4' N 132° 22.2' E	Fl.W. period 5s	39 12	12	White round concrete structure; 36.	
10390	Mikame Ko, jetty, head.	33° 22.0' N 132° 24.4' E	Iso.G. period 4s	27 8	6	White round tower; 19.	
10392 <i>M 5622.4</i>	Okuti Wan, on Island.	33° 20.5' N 132° 22.8' E	Fl.(3)W. period 14s 3 fl. 4s, ec. 10s	125 38	9	White round concrete tower; 28.	
10396 <i>M 5622.5</i>	-S. breakwater, head.	33° 20.0' N 132° 23.0' E	Fl.G. period 3s	40 12	5	White round concrete structure; 31.	
10400 <i>M 5622</i>	Osaki Hana.	33° 19.0' N 132° 22.5' E	Fl.W. period 5s	351 107	20	White quadrangular concrete tower; 28.	FW. light illuminates Sanzo Baya about 830 meters SW.
10404 <i>M 5621.4</i>	Iyo Mizukoshi Shima.	33° 18.5' N 132° 29.2' E	Fl.W. period 5s	52 16	7	White round concrete structure; 26.	
10408 <i>M 5620</i>	Ora Saki.	33° 15.0' N 132° 28.0' E	Iso.W. period 6s	98 30	16	White round concrete tower; 36.	
10412 <i>M 5619.4</i>	Hikide Hana.	33° 15.0' N 132° 32.0' E	Oc.W. period 4s	49 15	12	White round concrete structure; 43.	
10416 <i>M 5616</i>	Hosoki Unga, N. entrance, W. side.	33° 12.2' N 132° 24.6' E	F.Fl.(3)R. period 13s	36 11	F. 6 Fl 11	Red round concrete structure; 28.	
10420 <i>M 5614.4</i>	Otoshibana.	33° 11.6' N 132° 25.3' E	Mo.(A)G. period 8s	33 10	5	White round concrete tower; 26.	
10424 <i>M 5615.6</i>	Uwa Ka Shima.	33° 13.6' N 132° 21.8' E	Iso.W. period 6s	423 129	20	White quadrangular concrete structure; 32.	
10428 <i>M 5615</i>	Oku Shima.	33° 12.3' N 132° 23.5' E	Fl.W. period 3s	200 61	17	White round concrete tower; 28.	
10430 <i>M 5614.9</i>	To Sima.	33° 12.0' N 132° 22.1' E	Fl.R. period 3s	30 9	6	Red tower; 19.	
10432 <i>M 5614.8</i>	Honura Ko, S. breakwater.	33° 11.8' N 132° 21.8' E	Fl.(2)G. period 6s	26 8	6	White tower; 18.	
10436 <i>M 5614.5</i>	Hiburi Shima.	33° 10.0' N 132° 16.2' E	Fl.(2)W. period 20s	410 125	27	White quadrangular concrete tower; 33.	
10440 <i>M 5614.34</i>	Noto Saki, on Aka Bae.	33° 09.1' N 132° 25.6' E	Fl.(3)W. period 13s	52 16	13	Round concrete tower, red and white bands; 29.	
10444 <i>M 5614.2</i>	Sho-no-Shima.	33° 07.4' N 132° 26.7' E	Fl.W. period 4s	33 10	9	White round concrete tower; 26.	
10448 <i>M 5614.3</i>	Iwamatsu Ko, Usashi breakwater.	33° 07.7' N 132° 29.8' E	Iso.G. period 6s	36 11	5	White round concrete tower; 28.	
10452 <i>M 5614.1</i>	Iyo, Takega Shima.	33° 06.0' N 132° 25.0' E	Fl.(4)W. period 16s	108 33	16	White round concrete tower; 26.	
10456 <i>M 5614</i>	Suge Zaki.	33° 04.0' N 132° 25.0' E	Fl.(2)W. period 8s 2 fl. 3s, ec. 5s	36 11	17	White tower; 43.	
10464 <i>M 4912</i>	Mizunoko Shima.	33° 02.4' N 132° 10.8' E	Fl.W. period 10s	184 56	20	Round stone tower, black and white bands; 28.	
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(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SHIKOKU AND KYUSHU							
10465 <i>M 5625.6</i>	Sadamisaki Ko, No. 1 breakwater.	33° 21.6' N 132° 03.2' E	F.F.I.G. period 6s	46 14	F. 5 Fl 12	White round concrete tower; 31.	
10465.5 <i>M 5625.2</i>	-Inoura, breakwater.	33° 22.3' N 132° 06.5' E	Iso.R. period 6s	43 13	12	Red round concrete tower; 30.	
10466 <i>M 5625</i>	Iyo Misaki Ko, No. 1 breakwater.	33° 23.1' N 132° 07.3' E	F.F.I.R. period 4s	39 12	F. 6 Fl 11	Red round concrete tower; 28.	
10468 <i>M 5613</i>	Yurano Hana.	33° 00.9' N 132° 23.2' E	Fl.W. period 5s	305 93	12	White square tower, 29.	
10472 <i>M 5612.5</i>	Funakoshi Canal, N. entrance.	33° 03.0' N 132° 26.0' E	Iso.G. period 6s	33 10	11	White round concrete tower; 28.	
10476 <i>M 5612.3</i>	Shiokoshima Kurobae.	33° 01.2' N 132° 27.5' E	Fl.W. period 3s	62 19	5	White round structure; 56.	
10480 <i>M 5612.2</i>	Kogai Bae.	32° 59.6' N 132° 30.0' E	Fl.(2)W. period 8s	43 13	5	White tower; 36.	
10484 <i>M 5612.14</i>	Mabune.	32° 58.3' N 132° 30.3' E	Iso.W. period 6s	43 13	4	White round concrete structure; 33.	
10488 <i>M 5612.1</i>	Ka Shima.	32° 56.5' N 132° 27.6' E	Fl.W. period 4s	118 36	16	White round concrete structure; 36.	
10492 <i>M 5612</i>	Komo Saki.	32° 54.2' N 132° 28.7' E	Fl.W. period 7s	466 142	20	White round concrete tower; 20.	
10496 <i>M 5611.4</i>	Iyo, Fukuura Ko, breakwater.	32° 55.1' N 132° 30.0' E	Fl.G. period 3s	25 8	6	White tower; 18.	
10500 <i>M 5611.3</i>	-Breakwater, head.	32° 57.0' N 132° 30.0' E	Fl.R. period 3s	39 12	11	Red round concrete tower; 31.	
10504 <i>M 5611</i>	Tengi Hana.	32° 55.6' N 132° 34.2' E	Oc.W. period 8s lt. 6s, ec. 2s	241 73	20	White round tower; 25.	Auxiliary light illuminates beacon on Shira Ishi, about 800 meters SE.
10508 <i>M 5611.2</i>	Iyo Fukaura Ko Ninobae Hana.	32° 56.3' N 132° 35.2' E	Oc.(2)W. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	31 9	10	White tower; 25.	
10512 <i>M 5610.5</i>	Ikeno Shima.	32° 55.2' N 132° 41.1' E	Iso.W. period 6s	194 59	8	White round concrete tower; 28.	
10514	-O Sima.	32° 54.9' N 132° 41.4' E	Fl.(2)R. period 6s	39 12	6	Red tower; 28.	
10516 <i>M 5610.4</i>	Tosa, Nagasaka Bana.	32° 53.5' N 132° 42.5' E	Fl.(3)W. period 13s	230 70	20	White round concrete tower; 31.	F.W. floodlight illuminates Siro Bae.
10520 <i>M 5610.2</i>	Sira Saki.	32° 51.0' N 132° 39.6' E	Fl.W. period 4s	184 56	20	White octagonal concrete tower; 31.	F.W. floodlight marks Ko Jima to the N.
10524 <i>M 4922</i>	Takago Iwa.	33° 06.6' N 132° 01.8' E	Fl.W. period 3s	62 19	13	White round concrete tower; 28.	
10526 <i>M 4923.3</i>	Hodosima Ko.	33° 06.4' N 132° 00.6' E	Iso.G. period 6s	30 9	6	White concrete structure; 19.	
10528 <i>M 4923</i>	Hoto Shima Ko.	33° 06.2' N 132° 00.2' E	Fl.G. period 3s	43 13	5	White tower; 33.	
10532 <i>M 4924</i>	Hoto Shima Ko, breakwater, head.	33° 05.7' N 132° 00.3' E	Iso.G. period 6s	29 9	6	White round concrete structure; 19.	
10534	Tukumi Ko.	33° 04.0' N 131° 59.4' E	Iso.G. period 6s	27 8	6	White tower; 19.	
10535 <i>M 4927.5</i>	Youra Ko.	33° 03.5' N 131° 58.4' E	Fl.R. period 3s	28 9	6	Red tower; 19.	
10536 <i>M 4928</i>	Tsukumi Sirais.	33° 06.3' N 131° 56.5' E	Fl.(2)W. period 5s	39 12	11	ISOLATED DANGER BRB, beacon, topmark; 30.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-SHIKOKU AND KYUSHU							
10538 <i>M 4928.5</i>	Akae Ko, breakwater.	33° 05.2' N 131° 56.0' E	FI.G. period 5s	26 8	5	White concrete structure; 18.	
TSUKUMI KO:							
10548 <i>M 4930</i>	-Detached breakwater.	33° 04.5' N 131° 52.0' E	FI.G. period 3s	39 12	10	Green tower; 29.	
10552 <i>M 4929</i>	-Chinu Saki.	33° 05.1' N 131° 53.2' E	Iso.G. period 4s	36 11	11	White round concrete tower; 28.	
10556 <i>M 4938.3</i>	-Tomariganti.	33° 07.3' N 131° 55.0' E	FI.W. period 4s	239 73	12	White round metal tower; 33.	
10558 <i>M 4939</i>	-Kusuya Saki.	33° 07.2' N 131° 49.7' E	FI.(2)G. period 5s	29 9	5	White tower; 18.	
10560 <i>M 4940</i>	Usuki Ko, breakwater, E. head.	33° 07.6' N 131° 48.9' E	FI.R. period 3s	26 8	9	Red tripod on round base; 23.	
10564 <i>M 4941</i>	-Breakwater, head.	33° 07.0' N 131° 49.0' E	Oc.G. period 8s lt. 6s, ec. 2s	39 12	11	White tower; 31.	
10568 <i>M 4943</i>	-Shitanoe.	33° 09.0' N 131° 50.0' E	Oc.W. period 8s lt. 6s, ec. 2s	69 21	14	White round concrete structure; 28.	
10570 <i>M 4943.5</i>	-Shitanoe Ko.	33° 10.4' N 131° 50.2' E	FI.G. period 3s	25 8	5	White tower; 18.	
SAIKI WAN:							
10572 <i>M 4916</i>	-Takega Shima.	32° 59.0' N 131° 59.0' E	FI.W. period 5s	125 38	12	White round concrete tower, square base; 23.	
10574 <i>M 4921</i>	-Breakwater, head.	33° 02.9' N 131° 56.1' E	Iso.R. period 6s	36 11	11	Red tower; 28.	
10576 <i>M 4917</i>	-Motsura Ko, N. breakwater.	32° 56.7' N 131° 58.0' E	F.FI.G. period 6s	36 11	F 5 FI 11	White round concrete tower; 28.	
10578 <i>M 4917.5</i>	-Breakwater, head.	32° 56.9' N 131° 57.5' E	FI.R. period 3s	26 8	6	Red concrete tower; 19.	
10580 <i>M 4918</i>	-Todo Hana, summit off SE. point of Onyu Shima.	32° 58.6' N 131° 55.6' E	Oc.W. period 8s	75 23	14	White tower; 33.	
10584 <i>M 4920.4</i>	-E. Training Wall.	32° 58.5' N 131° 54.8' E	FI.R. period 4s	36 11	9	Red round concrete tower; 31.	
10586 <i>M 4920.5</i>	-Breakwater, head.	32° 58.5' N 131° 54.8' E	FI.G. period 4s	26 8	6	White tower; 19.	
10588 <i>M 4920.2</i>	-W. Training Wall, head.	32° 58.5' N 131° 54.5' E	FI.(2)G. period 7s	36 11	5	White tower; 28.	
10592 <i>M 4920</i>	-Saeki Ko, Katsura, N. breakwater.	32° 58.6' N 131° 54.6' E	FI.(2)R. period 7s	36 11	6	Red tower; 27.	
10594 <i>M 4913.5</i>	-O Sima, W. side.	32° 58.1' N 132° 04.6' E	Oc.R. period 8s	28 9	7	Red concrete structure; 19.	
10596 <i>M 4914</i>	Bungo, O Shima, W. breakwater.	32° 57.8' N 132° 04.5' E	Iso.G. period 6s	29 9	6	White round concrete tower; 19.	
10600 <i>M 4913</i>	Sakino Se.	32° 58.0' N 132° 06.2' E	FI.W. period 4s	141 43	14	White round concrete structure; 24.	
10604 <i>M 4910</i>	Motonoma Kaikyo.	32° 56.8' N 132° 04.4' E	FI.(2)W. period 5s	39 12	9	ISOLATED DANGER BRB, beacon, topmark; 39.	

Section 7

Kyushu

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-KYUSHU							
10608 <i>M 4909.8</i>	Turumi Saki.	32° 55.8' N 132° 05.1' E	Fl.W. period 8s	646 197	23	White round concrete tower; 46.	
10610 <i>M 4909.1</i>	Yonozu Hakuti.	32° 53.8' N 131° 59.9' E	Fl.W. period 4s	56 17	13	White tower; 31.	
10612 <i>M 4909.2</i>	Iromiya Ko, N. breakwater.	32° 53.3' N 131° 59.7' E	Iso.G. period 6s	43 13	12	White round concrete tower; 31.	
10613 <i>M 4909.3</i>	-S. breakwater.	32° 53.3' N 131° 59.4' E	Fl.G. period 3s	26 8	6	White tower; 18.	
10614 <i>M 4909.4</i>	-Breakwater.	32° 53.4' N 131° 59.4' E	Iso.R. period 8s	26 8	7	Red tower; 19.	
10616 <i>M 4909.6</i>	Urashiro Ko, W. breakwater.	32° 55.1' N 131° 58.8' E	Iso.G. period 6s	36 11	6	White round concrete tower; 31.	
10620 <i>M 4909</i>	Oki Kuro Sima.	32° 52.6' N 132° 02.2' E	Fl.W. period 3s	262 80	12	White tower; 30.	
10624 <i>M 4908</i>	Kamae Ko.	32° 47.0' N 131° 55.9' E	Fl.W. period 5s	42 13	12	White tower; 33.	
10628 <i>M 4908.4</i>	-Breakwater.	32° 47.4' N 131° 55.5' E	F.Fl.R. period 3s	39 12	F. 6 Fl 11	Red round concrete structure, quadrangular base; 31.	
10630 <i>M 4908.6</i>	-N. breakwater, head.	32° 51.0' N 131° 57.3' E	Fl.G. period 3s	26 8	5	White concrete tower; 19.	
10632 <i>M 4906</i>	Fuka Shima.	32° 42.9' N 131° 55.6' E	Fl.W. period 3s	295 90	12	White round concrete tower; 32.	
10636 <i>M 4907</i>	Maruitibi Ko, breakwater.	32° 47.1' N 131° 52.7' E	F.Fl.G. period 6s	46 14	F. 5 Fl 12	White round tower on quadrangular base; 28.	
10638 <i>M 4907.5</i>	Yakata Sima, breakwater.	32° 46.7' N 131° 54.6' E	Fl.(2)R. period 6s	27 8	6	Red concrete structure; 19.	
10640 <i>M 4905.4</i>	Furue Ko, Miyano Ura, breakwater.	32° 41.7' N 131° 50.0' E	Fl.(2)R. period 8s	39 12	3	Red round concrete tower, quadrangular base; 28.	
10644 <i>M 4904.6</i>	-Aso, breakwater.	32° 41.1' N 131° 48.5' E	F.Fl.R. period 3s	39 12	F. 3 Fl 7	Red round concrete structure; 31.	
10648 <i>M 4904</i>	Shimanoura Shima.	32° 39.9' N 131° 49.3' E	Fl.(2)W. period 7s	630 192	13	White tower; 26.	
10650 <i>M 4904.2</i>	Gozyo Se.	32° 39.3' N 131° 48.6' E	Fl.W. period 4s	89 27	12	White tower; 36.	
10652 <i>M 4904.8</i>	-Kitaura Ko, approach.	32° 40.4' N 131° 49.0' E	Fl.W. period 3s	56 17	12	White round concrete structure; 43.	
10656 <i>M 4904.4</i>	-Shimanoura Ko, S. breakwater.	32° 40.0' N 131° 49.0' E	Iso.R. period 6s	33 10	11	Red round concrete structure; 27.	
10660 <i>M 4904.5</i>	--N. breakwater.	32° 39.9' N 131° 48.7' E	Iso.G. period 6s	39 12	6	White tower; 32.	
10664 <i>M 4905</i>	-Kitaura Ko Itiburi, breakwater.	32° 42.0' N 131° 50.0' E	Iso.R. period 6s	31 9	11	Red round concrete structure; 25.	
10668 <i>M 4904.9</i>	--Inner breakwater.	32° 42.0' N 131° 49.0' E	Fl.R. period 4s	43 13	9	Red tower; 32.	
10672 <i>M 4903.7</i>	Urashiro, breakwater, head.	32° 38.0' N 131° 46.0' E	Iso.R. period 4s	39 12	11	Red round concrete structure; 32.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-KYUSHU							
10676 <i>M 4903.6</i>	Minamiura Ko, Yasui, N. breakwater.	32° 36.6' N 131° 45.3' E	Fl.G. period 3s	46 14	5	White metal framework structure; 31.	
10680 <i>M 4903</i>	Simake Bae.	32° 35.4' N 131° 46.6' E	Fl.(2)W. period 5s	69 21	9	ISOLATED DANGER BRB, beacon, topmark; 59.	
10684 <i>M 4902</i>	Tomi, on N. side of mouth of Kita Kawa.	32° 35.5' N 131° 43.0' E	Fl.W. period 3s	33 10	5	White round concrete structure; 28.	
10688 <i>M 4900</i>	Nobeoka Shinko, N. breakwater, N. light.	32° 31.4' N 131° 42.0' E	Fl.(2)G. period 6s	59 18	8	White round concrete structure; 36.	
10692 <i>M 4900.94</i>	Nobeoka Sinko, N. breakwater S.	32° 31.0' N 131° 42.0' E	Fl.(2)R. period 6s	46 14	9	Red round concrete structure; 31.	
10696 <i>M 4900.7</i>	-Range No. 2, front.	32° 30.6' N 131° 40.5' E	F.R.	49 15	8	White round concrete tower, triangular daymark; 17.	
10700 <i>M 4900.8</i>	--Rear, about 60 meters 201° from front.	32° 30.6' N 131° 40.5' E	F.R.	66 20	8	White round concrete tower, triangular daymark; 20.	
10704 <i>M 4900.2</i>	-Breakwater.	32° 30.6' N 131° 41.3' E	F.Fl.R. period 3s	39 12	F 6 Fl 11	Red quadrangular metal structure; 36.	
10708 <i>M 4898.6</i>	Biro Jima.	32° 28.0' N 131° 44.0' E	Fl.W. period 3s	282 86	12	White round concrete structure; 39.	
10712 <i>M 4897</i>	Nabe Saki.	32° 28.0' N 131° 41.9' E	Fl.(4)W. period 15s	125 38	17	White tower; 32.	
OZUE WAN:							
10716 <i>M 4898</i>	-Ikui Bae.	32° 27.2' N 131° 41.7' E	Fl.R. period 3s	36 11	5	White round concrete structure; 33.	
10720 <i>M 4899.7</i>	--Approach light.	32° 28.1' N 131° 40.7' E	Fl.(2)R. period 6s	52 16	9	Red tower; 36.	
10724 <i>M 4899</i>	-Kadokawa Ko, S. breakwater.	32° 28.0' N 131° 39.8' E	Iso.G. period 4s	36 11	6	White round concrete structure, quadrangular base; 25.	
10732 <i>M 4899.4</i>	--Iorikawa, breakwater.	32° 28.4' N 131° 40.2' E	Iso.R. period 6s	46 14	7	Red tower; 28.	
10736 <i>M 4896</i>	Hososhima Ko.	32° 25.2' N 131° 41.3' E	Al.Fl.W.G. period 10s	331 101	25	White round concrete tower; 36.	Two F.W. lights (horiz.) visible 5 miles show from head and middle of pier.
RAMARK							
10740 <i>M 4898.7</i>	-Breakwater, N. head.	32° 27.0' N 131° 40.6' E	Iso.G. period 6s	56 17	8	White tower; 36.	
10744 <i>M 4896.4</i>	-Basin, breakwater.	32° 25.0' N 131° 40.0' E	F.W.	26 8	9	White round metal structure; 19.	
10748 <i>M 4894</i>	Mimitsu Ko, Tatsugami Bae, S. head.	32° 19.0' N 131° 37.0' E	Fl.W. period 4s	75 23	12	White octagonal concrete tower; 56.	
10752 <i>M 4893</i>	Tsuno Ko, S. breakwater.	32° 14.8' N 131° 34.6' E	Iso.G. period 6s	39 12	11	White quadrangular metal framework structure; 27.	
10756 <i>M 4892.6</i>	Kawanami Ko, S. breakwater.	32° 10.0' N 131° 33.0' E	F.Fl.G. period 6s	36 11	F 5 Fl 11	White round tower on square base; 28.	
10760 <i>M 4890</i>	Tonda.	32° 04.0' N 131° 30.0' E	Fl.W. period 15s	210 64	21	White cylindrical concrete tower; 31.	Visible 199° -019°.
10762 <i>M 4889.2</i>	Miyazaki, N. breakwater.	31° 54.9' N 131° 28.6' E	Fl.(2)R. period 6s	43 13	12	Red tower; 36.	
10763 <i>M 4889.4</i>	-S. breakwater.	31° 55.3' N 131° 29.1' E	Fl.(2)G. period 6s	52 16	11	White tower; 20.	
10764 <i>M 4889</i>	Miyazaki, AVIATION LIGHT.	31° 52.0' N 131° 26.0' E	Al.Fl.W.G. period 4.3s	72 22		Metal framework tower.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-KYUSHU							
10768 <i>M 4887</i>	Ao Shima.	31° 48.4' N 131° 28.8' E	Fl.W. period 4s	43 13	5	White round concrete structure; 39.	
10772 <i>M 4888</i>	Aoshima Ko, E. breakwater.	31° 48.0' N 131° 29.0' E	F.Fl.(2)G. period 10s 2 fl. 3s, ec. 7s	43 13	F 5 Fl 12	White round concrete tower; 28.	
UCHIUMI KO:							
10776 <i>M 4886</i>	-Tosaki Hana.	31° 47.0' N 131° 29.0' E	Fl.W. period 8s	299 91	24	White tower; 28.	Visible 138° -018° .
10780 <i>M 4883</i>	-Breakwater, head.	31° 45.3' N 131° 28.5' E	Fl.(2)G. period 6s	30 9	3	White square concrete tower; 25.	
10784 <i>M 4882</i>	-Offing breakwater.	31° 45.1' N 131° 28.5' E	Fl.(2)R. period 6s	46 14	6	Red tower; 31.	
10788 <i>M 4884</i>	-Range, front.	31° 45.2' N 131° 28.4' E	F.Y.	36 11	11	White hexagonal concrete tower, triangular daymark; 32.	
10792 <i>M 4884.1</i>	--Rear, about 180 meters 325° from front.	31° 45.1' N 131° 28.4' E	F.Y.	85 26	11	White round concrete tower, triangular daymark; 17.	
10796 <i>M 4880</i>	Kinchaku Jima.	31° 44.1' N 131° 28.6' E	Fl.(3)W.R. period 13s	164 50	19	White round concrete tower; 33.	R. 168° -208° , W.-168° .
10800 <i>M 4881</i>	Nojima Ko, breakwater, head.	31° 44.2' N 131° 28.1' E	Fl.G. period 3s	39 12	3	Red quadrangular metal framework structure; 29.	
10804 <i>M 4876</i>	Udo Saki.	31° 38.5' N 131° 28.2' E	Oc.(2)W. period 6s	148 45	18	White quadrangular concrete tower; 39.	
10808 <i>M 4870</i>	Hadaka Bae.	31° 33.7' N 131° 25.1' E	Fl.W. period 4s	69 21	12	White round concrete structure; 46.	
ABURATSU KO:							
10820 <i>M 4870.5</i>	-E. entrance Range, front.	31° 33.3' N 131° 24.0' E	F.G.	124 38	14	White hexagonal tower; 14.	
10824 <i>M 4870.51</i>	--Rear, about 420 meters 263° 30' from front.	31° 33.3' N 131° 23.8' E	F.G.	220 67	14	White round tower; 52.	
10828 <i>M 4872</i>	-E. breakwater, W. head.	31° 34.3' N 131° 24.2' E	Fl.R. period 4s	43 13	10	Red tower; 28.	
10832 <i>M 4873</i>	-W. breakwater, head.	31° 34.1' N 131° 24.3' E	Fl.G. period 4s	33 10	6	White tower; 26.	
10836 <i>M 4873.6</i>	-W. inner breakwater, head.	31° 34.3' N 131° 24.3' E	F.Fl.G. period 5s	39 12	F 5 Fl 11	White round concrete tower; 31.	
10840 <i>M 4874</i>	-Inner breakwater, E. head.	31° 34.5' N 131° 24.4' E	Iso.G. period 4s	32 10	6	White tower; 27.	F.W. 4M shown from head of wharf in inner harbor.
10844 <i>M 4866.8</i>	Odotsu Ko, detached breakwater.	31° 33.3' N 131° 23.3' E	Fl.R. period 3s	43 13	3	Red tower; 30.	
10848 <i>M 4867</i>	Odotsu Ko, W. groin.	31° 33.2' N 131° 23.4' E	Iso.G. period 6s	39 12	11	White round concrete structure; 30.	
10856 <i>M 4866.4</i>	Meitsu Ko Oki, detached breakwater, S.	31° 32.4' N 131° 23.8' E	Fl.(2)R. period 6s	36 11	3	Red tower; 16.	
10860 <i>M 4866</i>	Meitsu Ko, S. breakwater.	31° 32.4' N 131° 23.9' E	Fl.(2)G. period 6s	49 15	6	White tower; 31.	
10864 <i>M 4865</i>	Tonoura Ko, breakwater.	31° 30.6' N 131° 22.8' E	F.Fl.G. period 5s	36 11	F 5 Fl 11	White cylindrical concrete tower; 28.	
10868 <i>M 4864</i>	Kurasaki.	31° 30.6' N 131° 25.1' E	Fl.(2)W. period 20s 2 fl. 5s, ec. 15s	305 93	24	White concrete tower; 46.	Visible 187° -142° . F.W. illuminates M. Shima 0.9 mile SSE.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-KYUSHU							
10872 <i>M 4864.4</i>	Hyugano Se.	31° 30.2' N 131° 24.0' E	Mo.(A)G. period 8s	73 22	8	PORT (B) G, beacon, topmark; 63.	
10874 <i>M 4861</i>	Miyanoura, breakwater, head.	31° 23.8' N 131° 20.3' E	Fl.G. period 4s	56 17	7	White tower; 28.	
10876 <i>M 4860</i>	Toi Misaki.	31° 21.9' N 131° 20.9' E	Fl.W. period 15s	837 255	37	White octagonal concrete tower; 49.	Visible 198° -097° . Storm signals. Radiobeacon 1241 meters NW. DGPS Station 1241 meters NW.
	RAMARK				22		
10880 <i>M 4860.2</i>	-S.	31° 22.0' N 131° 20.0' E	F.W.	312 95		White round concrete tower; 36.	Illuminates shallow portion of Harajiro Se about 0.46 mile SSW.
10884 <i>M 4857.5</i>	Fukushima Ko, breakwater, head.	31° 26.7' N 131° 12.3' E	Iso.R. period 6s	46 14	6	Red tower; 35.	
10885 <i>M 4857</i>	-W. breakwater.	31° 26.8' N 131° 11.8' E	Fl.(2)R. period 6s	49 15	6	Red tower; 32.	
10892 <i>M 4858</i>	Bindare Jima.	31° 25.0' N 131° 13.0' E	Fl.W. period 4s	108 33	12	White round concrete structure; 31.	
	SHIBUSHI KO:						
10896 <i>M 4842</i>	-Breakwater.	31° 28.2' N 131° 06.7' E	F.Fl.G. period 5s	36 11	F. 5 Fl 11	White cylindrical tower on quadrangular base; 30.	
10898 <i>M 4842.6</i>	-Beacon.	31° 26.6' N 131° 05.7' E	Fl.G. period 3s	49 15	8	White tower; 33.	
10899	Kashiwabarū, SE. breakwater.	31° 21.6' N 131° 02.3' E	Fl.(2)R. period 6s	49 15	5	Red concrete structure; 32.	
10899.1 <i>M 4841.5</i>	-Kimotuki Ko.	31° 21.4' N 131° 03.1' E	Mo.(U)W. period 10s	115 35	16		Mo.(U)W. 10s 9M 270 meters W. and 240 meters ESE. Horn.
10900 <i>M 4840</i>	Uchinoura, S. side of Shibushi Wan, E. breakwater, head.	31° 16.5' N 131° 05.1' E	Iso.G. period 4s	49 15	12	White round concrete tower; 32.	
10904 <i>M 4839</i>	Hi Saki.	31° 16.9' N 131° 07.8' E	Iso.W. period 6s	207 63	14	White round concrete structure; 33.	
10908 <i>M 4837</i>	Odomari Ko, breakwater.	31° 01.4' N 130° 41.2' E	F.Fl.R. period 5s	52 16	F. 2 Fl 5	Red tower; 28.	
10912 <i>M 4836</i>	Sata Misaki.	30° 59.3' N 130° 39.7' E	Fl.(2)W. period 16s 2 fl. 4s, ec. 12s	223 68	21	White octagonal concrete tower; 43.	Visible 242° -150° . Signal station.
	RAMARK						
10916 <i>M 4835</i>	Tachime Saki.	31° 04.0' N 130° 39.0' E	Fl.W. period 3s	282 86	12	White round concrete structure; 25.	
10920 <i>M 4834</i>	Izashiki Ko, S. breakwater.	31° 05.8' N 130° 41.5' E	F.Fl.R. period 3s	56 17	F. 6 Fl 13	Red tower; 29.	
	KAGOSHIMA WAN:						
10924 <i>M 4821.6</i>	-Kanoya AVIATION LIGHT.	31° 22.6' N 130° 50.2' E	Al.Fl.W.G. period 4.3s	705 215		Metal framework tower; 49.	
10928 <i>M 4822.4</i>	-Kanoya Ko, S. breakwater.	31° 23.8' N 130° 46.1' E	F.Fl.R. period 5s	39 12	F. 6 Fl 11	Red round concrete tower; 28.	
10932 <i>M 4822</i>	--N. breakwater.	31° 23.8' N 130° 46.1' E	F.Fl.G. period 5s	39 12	F. 5 Fl 11	White round concrete structure on square base; 28.	

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JAPAN-KYUSHU							
10936 <i>M 4824</i>	-Tarumisu Ko, S. breakwater.	31° 30.0' N 130° 42.0' E	F.Fl.R. period 6s	36 11	F. 6 Fl 11	Red round concrete tower; 28.	
10937 <i>M 4824.5</i>	S. harbor, S. breakwater.	31° 28.8' N 130° 41.3' E	Fl.R. period 3s	39 12	6	Red tower; 31.	
-Kagoshima Ko:							
10940 <i>M 4825.4</i>	--Taniyama, N. breakwater, head.	31° 30.0' N 130° 32.0' E	Iso.R. period 4s	56 17	13	Red tower; 56.	
10944 <i>M 4825.5</i>	--Detached breakwater, S. head.	31° 29.0' N 130° 32.4' E	Fl.R. period 3s	59 18	10	Red round concrete tower; 52.	
10946	-S. breakwater, E. head.	31° 28.7' N 130° 32.7' E	Fl.G. period 3s	59 18	10	White tower; 52.	
10948 <i>M 4826.4</i>	--Mokuzai Ko, S. breakwater.	31° 31.8' N 130° 32.9' E	F.Fl.G. period 4s	43 13	F. 6 Fl 12	White round concrete structure; 31.	
10952 <i>M 4827</i>	--S. harbor, S. breakwater.	31° 32.0' N 130° 33.0' E	F.Fl.(2)G. period 8s 2 fl. 3s, ec. 5s	42 13	F. 7 Fl 12	White round concrete tower; 31.	
10956 <i>M 4827.4</i>	--Kamoike, breakwater.	31° 33.2' N 130° 33.8' E	Fl.G. period 3s	46 14	7	White tower; 31.	
10960 <i>M 4825</i>	--Kan Se.	31° 33.6' N 130° 35.5' E	Fl.W. period 3s	59 18	13	White round concrete tower; 56.	
10964 <i>M 4828</i>	--New Harbor, S. breakwater.	31° 34.7' N 130° 34.4' E	Iso.G. period 6s	46 14	12	White round concrete tower; 42.	
10968 <i>M 4828.2</i>	--N. breakwater, head.	31° 34.8' N 130° 34.4' E	Iso.R. period 6s	46 14	12	Red round concrete structure; 43.	
10971 <i>M 4828.6</i>	--Outer middle breakwater, S. head.	31° 35.6' N 130° 34.4' E	Fl.(2)R. period 6s	43 13	10	Red tower; 33.	
10972 <i>M 4828.7</i>	--N. head.	31° 35.9' N 130° 34.4' E	Fl.G. period 5s	43 13	10	White tower; 33.	
10973 <i>M 4828.8</i>	--Outer N. breakwater, S. head.	31° 35.9' N 130° 34.4' E	Fl.R. period 5s	43 13	10	Red tower; 33.	
10980 <i>M 4831</i>	--N. breakwater, S. head.	31° 35.9' N 130° 34.1' E	Fl.R. period 3s	46 14	3	White square metal framework tower; 31.	
10981 <i>M 4831.7</i>	-Approach.	31° 35.4' N 130° 35.9' E	Fl.(2)R. period 6s	26 8	6	Red tower; 18.	
10992 <i>M 4823.3</i>	- Kiire Ko Oil Terminal , Sea Berth, No. 1.	31° 24.0' N 130° 33.1' E	Mo.(U)W. period 8s	98 30	16		Private aid. Mo.(U)W. 8s 230 meters NNW.
10996 <i>M 4823.2</i>	-- No. 2.	31° 23.8' N 130° 33.3' E	Mo.(U)W. period 8s	118 36	17		Private aid. Mo.(U)W. 8s 210 meters NNW.
11000 <i>M 4823.12</i>	-- No. 3.	31° 23.6' N 130° 33.5' E	Mo.(U)W. period 8s	118 36	17		Private aid. Mo.(U)W. 8s 270 meters NNW and 270 meters SSE.
11002 <i>M 4823.06</i>	-- No. 4.	31° 23.3' N 130° 33.7' E	Mo.(U)W. period 8s	138 42	17		Private aid. Mo.(U)W. 8s 260 meters SSE.
11004 <i>M 4823.02</i>	--No. 2.	31° 22.3' N 130° 34.0' E	Mo.(B)Y. period 15s	20 6	8	SPECIAL Y, beacon, topmark.	Private aid.
11008 <i>M 4823</i>	--No. 1.	31° 22.1' N 130° 34.2' E	Mo.(B)Y. period 15s	20 6	8	SPECIAL Y, beacon, topmark.	Private aid.
11016 <i>M 4823.4</i>	--N. breakwater.	31° 23.0' N 130° 33.0' E	FR.	22 7	7	Red post; 13.	
11020 <i>M 4823.42</i>	--E. breakwater.	31° 23.4' N 130° 32.6' E	FG.	22 7	6	White post; 13.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-KYUSHU							
11024 <i>M 4820</i>	-Yamakawa Ko on Uno Se.	31° 12.5' N 130° 38.9' E	Fl.R. period 3s	37 11	9	STARBOARD (B) R, beacon, topmark; 39.	R. light located on Bando Koro Hana.
11028 <i>M 4820.2</i>	-Bandokoro Hana.	31° 12.4' N 130° 38.3' E	Fl.G. period 3s	39 12	11	White round tower, on square base; 33.	
11030	-Ibusuki Ko, breakwater.	31° 14.1' N 130° 39.6' E	Fl.R. period 5s	31 9	6	Red tower; 22.	
11032 <i>M 4821</i>	-Chirin Jima, NE. point of island.	31° 16.0' N 130° 41.0' E	Fl.W. period 4s	331 101	12	White round concrete tower; 33.	
11036 <i>M 4821.2</i>	-O-Nezime Ko, N. breakwater.	31° 15.0' N 130° 46.0' E	F.Fl.G. period 3s	36 11	F. 5 Fl 11	White round structure, quadrangular concrete base; 25.	
11040 <i>M 4820.6</i>	-Nezime Ko, N. breakwater.	31° 13.1' N 130° 45.4' E	Fl.(2)G. period 6s	36 11	10	White tower; 28.	
11044 <i>M 4819.5</i>	-Nagasaki Hana.	31° 09.4' N 130° 35.2' E	Iso.W. period 6s	69 21	13	White round concrete tower; 36.	
11048 <i>M 4819</i>	Maese Hana.	31° 15.0' N 130° 25.0' E	Fl.W. period 4s	56 17	13	White round concrete structure on quadrangular base; 31.	
MAKURASAKI KO:							
11056 <i>M 4815.3</i>	-S. breakwater, head.	31° 15.5' N 130° 17.5' E	Iso.R. period 6s	59 18	10	Red tower; 31.	
11060 <i>M 4817</i>	-W. breakwater, head.	31° 15.7' N 130° 17.6' E	Fl.(2)G. period 6s	62 19	5	White tower; 33.	
11062 <i>M 4815</i>	-Entrance breakwater.	31° 15.1' N 130° 17.5' E	Fl.G. period 4s	36 11	3	White tower; 17.	
11064 <i>M 4812</i>	Bono Misaki.	31° 15.0' N 130° 13.0' E	Fl.(3)W. period 30s 3 fl. 12s, ec. 18s	276 84	23	White octagonal concrete tower; 39.	Visible 274° -157°.
11068 <i>M 5080</i>	Minega Saki.	31° 16.0' N 130° 13.0' E	Iso.W. period 6s	410 125	20	White round concrete structure; 28.	
11072 <i>M 5083</i>	Satuma.	31° 25.0' N 130° 06.6' E	Fl.W. period 5s	489 149	11	White round concrete tower; 34.	
11076 <i>M 5082</i>	Bonoura Naga Se.	31° 16.2' N 130° 13.6' E	Mo.(A)R. period 9s	23 7	3	STARBOARD (B) R, beacon, tower; 25.	
11080 <i>M 5084</i>	Kataura Ko, breakwater, head.	31° 25.3' N 130° 11.0' E	Fl.W. period 3s	36 11	7	White tower; 29.	
11081	Kagosima Ken.	31° 25.1' N 130° 11.1' E	Fl.(2)R. period 6s	23 7	3	Red tower; 12.	
11084 <i>M 4994.7</i>	Torinosu Yama.	31° 46.9' N 129° 48.2' E	Fl.W. period 4s	236 72	20	White round concrete structure; 31.	F. light illuminates beacon on Heta-no-Se about 275 meters NE.
11088 <i>M 4994.6</i>	Tsubura Saki.	31° 47.2' N 129° 47.1' E	Fl.(4)W. period 15s 4 fl. 7s, ec. 8s	299 91	20	White round concrete tower; 28. Floodlit.	
11092 <i>M 4994.4</i>	Imuta Ko, breakwater.	31° 46.6' N 129° 48.1' E	Fl.G. period 6s	52 16	8	White tower; 28.	
11094 <i>M 4994.2</i>	Nagahama Ko, S. breakwater.	31° 42.2' N 129° 44.6' E	Fl.G. period 3s	52 16	5	White tower; 36.	
11096 <i>M 4992</i>	Tsurikake Saki.	31° 37.4' N 129° 41.5' E	Fl.W. period 15s	479 146	23	White round concrete tower; 56.	Visible 271° -115°.
11100 <i>M 4994</i>	Teuchi Ko, breakwater.	31° 38.0' N 129° 43.0' E	Fl.(2)G. period 6s	56 17	7	White round concrete tower; 36.	
11104 <i>M 4996</i>	Nakakoshiki, breakwater.	31° 50.0' N 129° 51.7' E	Fl.G. period 4s	33 10	3	White round concrete structure, quadrangular base; 23.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-KYUSHU							
11108 <i>M 4995</i>	-Training wall.	31° 50.0' N 129° 51.0' E	Fl.R. period 4s	39 12	11	Red round structure on square concrete base 30.	
11112 <i>M 4994.8</i>	Koshiki, Taira Ko, breakwater, head.	31° 48.3' N 129° 50.5' E	Fl.(2)G. period 6s	36 11	5	White tower; 18.	
KUSHIKINO KO:							
11116 <i>M 5090</i>	-S. breakwater, N. head.	31° 42.0' N 130° 16.0' E	F.Fl.R. period 5s	42 13	F. 8 Fl 12	Red round concrete tower; 32.	
11120 <i>M 5088</i>	-N. breakwater, S. head.	31° 42.4' N 130° 15.7' E	F.Fl.G. period 5s	43 13	F. 7 Fl 12	White round concrete tower; 32.	
11124 <i>M 5087</i>	-Naga Saki.	31° 42.5' N 130° 15.5' E	Oc.W. period 4s lt. 3s, ec. 1s	66 20	14	White tower; 39.	F.W. spotlight illuminates rock 700 meters S.
11126 <i>M 5087.5</i>	-Detached breakwater.	31° 42.9' N 130° 15.0' E	Fl.(2)G. period 6s	52 16	8	White tower; 36.	
11128 <i>M 5091</i>	Satsuma.	31° 44.4' N 130° 10.8' E	Fl.W. period 4s	282 86	12	White round concrete structure on quadrangular base; 31.	
11132 <i>M 5094.6</i>	Sendai River entrance, breakwater, head.	31° 50.0' N 130° 11.0' E	Fl.G. period 4s	46 14	7	White tower; 30.	
11136 <i>M 5094</i>	Sendai Ko, S. breakwater.	31° 51.3' N 130° 11.0' E	Fl.(2)R. period 6s	59 18	5	Red tower; 39.	
11138 <i>M 5094.3</i>	-Outer breakwater.	31° 51.5' N 130° 10.7' E	Fl.(2)G. period 6s	56 17	6	White concrete tower; 36.	
11140 <i>M 5094.4</i>	-W. breakwater, S. head.	31° 51.2' N 130° 11.3' E	Fl.G. period 3s	46 14	5	White tower; 34.	
11146 <i>M 5094.25</i>	--N. head.	31° 52.2' N 130° 11.6' E	Fl.R. period 4s	30 9	3	Red mast; 11.	
11148 <i>M 5093</i>	Naka Se.	31° 51.1' N 130° 02.9' E	Fl.(2)W. period 5s	62 19	7	ISOLATED DANGER BRB, beacon, topmark; 56.	
RACON			OE(- - - •)		5		
11152 <i>M 4996.4</i>	Satomura.	31° 50.0' N 129° 56.0' E	Oc.W. period 5s lt. 3s, ec. 2s	177 54	19	White round concrete structure; 32.	
11156 <i>M 5092</i>	Ite Saki.	31° 52.2' N 129° 56.4' E	Fl.W. period 3s	272 83	8	White round concrete structure; 36.	
11158	Sato Ko, outer breakwater.	31° 50.5' N 129° 55.6' E	Fl.G. period 5s	27 8	3	White tower; 16.	
11160 <i>M 4997</i>	Nawase Hana.	31° 53.0' N 129° 50.0' E	Fl.W. period 5s	574 175	20	White round concrete structure; 33.	
11164 <i>M 5095</i>	Akune Ko.	32° 01.0' N 130° 11.0' E	Fl.(2)W. period 10s	141 43	18	White round concrete structure quadrangular base; 39.	F.W. auxiliary light illuminated obstruction 300 meters away.
11168 <i>M 5096</i>	Akune Ko, W. breakwater, head.	32° 01.0' N 130° 11.5' E	Iso.R. period 6s	39 12	12	Red round concrete tower; 28.	
11169 <i>M 5097</i>	-E. breakwater.	32° 01.4' N 130° 11.3' E	Fl.R. period 4s	43 13	12	Red tower; 31.	
11169.1 <i>M 5098</i>	-Center breakwater.	32° 01.4' N 130° 11.1' E	Fl.(2)G. period 6s	52 16	6	White tower; 28.	
11172 <i>M 5100</i>	Kobira Se.	32° 04.7' N 130° 10.4' E	Fl.(3)W. period 13s	66 20	13	White round concrete tower; 29.	F.W. obstruction light shows over Hira Se.
11176 <i>M 5101</i>	Kuronohama Ko, S. breakwater.	32° 05.0' N 130° 11.0' E	F.Fl.R. period 6s	36 11	F. 6 Fl 11	Red round concrete tower; 28.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-KYUSHU							
11180 <i>M 5100.2</i>	Satuma No Se.	32° 05.1' N 130° 10.0' E	Mo.(A)G. period 8s	43 13	8	PORT (B) G, beacon, topmark; 39.	
11184 <i>M 5102</i>	Nagasaki Hana.	32° 07.0' N 130° 07.0' E	Fl.W. period 10s	89 27	15	White hexagonal concrete tower; 49.	Visible 326° -162° .
11188 <i>M 5103</i>	Sasue Ko, S. breakwater.	32° 09.4' N 130° 06.8' E	F.Fl.(2)R. period 10s 2 fl. 3s, ec. 7s	36 11	F 3 Fl 7	Red round tower on quadrangular base; 28.	
11192 <i>M 5106</i>	To Shima.	32° 11.9' N 130° 04.9' E	Fl.W. period 3s	158 48	9	White round stone tower; 21.	Visible 162° -032° .
11196 <i>M 5130</i>	Miyanoura Ko, breakwater.	32° 11.9' N 130° 11.5' E	Iso.R. period 4s	36 11	5	Red tower; 31.	
11200 <i>M 5132</i>	Komenotsu Ko, N. breakwater, head.	32° 07.6' N 130° 20.7' E	Iso.G. period 6s	36 11	11	White round concrete tower; 28.	
11204 <i>M 5133</i>	-Detached breakwater, NE. head.	32° 07.0' N 130° 21.0' E	Fl.R. period 3s	36 11	9	Red round concrete structure, 26.	
11208 <i>M 5131</i>	Nago Ko, breakwater.	32° 07.3' N 130° 19.9' E	Fl.(2)G. period 6s	39 12	11	White round concrete tower; 25.	
11212 <i>M 5134</i>	Minamata Ko, Koji Shima, W. extremity.	32° 11.8' N 130° 21.7' E	Fl.W. period 3s	105 32	7	White round concrete tower on square base; 36.	
11224 <i>M 5136.4</i>	Marushima Ko, E. breakwater.	32° 12.8' N 130° 23.2' E	Iso.R. period 6s	39 12	11	White steel lattice tower; 31.	
11228 <i>M 5136.7</i>	Tunagi Wan.	32° 14.4' N 130° 25.9' E	Fl.G. period 3s	39 12	3	White round concrete structure; 29.	
11232 <i>M 5137</i>	Fukuhamo Ko, breakwater.	32° 15.0' N 130° 26.0' E	F.Fl.G. period 6s	39 12	F 5 Fl 11	White round concrete tower; 28.	
11234	Sasaki Ko, breakwater.	32° 16.4' N 130° 26.8' E	Fl.R. period 5s	26 8	3	Red tower; 16.	
11236 <i>M 5137.4</i>	Egushi Ko, breakwater.	32° 17.0' N 130° 27.0' E	F.Fl.R. period 6s	36 11	F 6 Fl 11	Red round concrete tower; 28.	
11240 <i>M 5137.47</i>	Higo Okino Shima.	32° 18.0' N 130° 26.8' E	Fl.W. period 3s	79 24	5	White round concrete structure; 27.	
11242 <i>M 5137.48</i>	Sasaki Ko, N. breakwater, S. head.	32° 17.8' N 130° 28.4' E	Iso.G. period 6s	33 10	6	White tower; 18.	
11244 <i>M 5137.5</i>	Ganno Shiri.	32° 18.1' N 130° 18.2' E	Fl.W. period 4s	151 46	17	Round concrete structure, red and white bands; 36.	
11248 <i>M 5137.8</i>	Hongo Ko, breakwater, head.	32° 20.3' N 130° 20.3' E	Fl.G. period 3s	33 10	5	White round concrete tower; 18.	
11252	Tanasoko Ko, breakwater.	32° 24.3' N 130° 20.6' E	Fl.G. period 4s	36 11	3	White round concrete structure; 28.	
11254 <i>M 5137.7</i>	-E. breakwater.	32° 23.2' N 130° 21.1' E	Fl.G. period 5s	26 8	3	White tower; 16.	
11256 <i>M 5137.6</i>	Arakuchi Ko, No. 4 breakwater.	32° 20.9' N 130° 21.7' E	F.Fl.R. period 6s	39 12	F 6 Fl 11	Red round concrete tower on square base; 28.	
11260 <i>M 5138.5</i>	Daido Ko, E. breakwater.	32° 23.0' N 130° 21.0' E	Iso.R. period 4s	39 12	11	Red round concrete structure on square base; 28.	
11264 <i>M 5138.6</i>	Yoitigaura Ko, breakwater.	32° 22.0' N 130° 21.2' E	Oc.G. period 4s lt. 3s, ec. 1s	43 13	11	White tower; 31.	
11268 <i>M 5138.8</i>	Karajiro Hana.	32° 22.4' N 130° 21.5' E	Fl.W. period 3s	105 32	16	White round concrete structure; 31.	
11269 <i>M 5138.9</i>	Matu ga Hana.	32° 22.7' N 130° 22.9' E	F.W.	49 15		White tower; 36.	Spotlight illuminates beacon on shoal 180 meters S.
11270 <i>M 5138.85</i>	Ike-no-Ura.	32° 23.1' N 130° 22.0' E	Fl.R. period 4s	30 9	7	Red tower; 19.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-KYUSHU							
11274 <i>M 5155.1</i>	-W. breakwater, head.	32° 23.8' N 130° 18.4' E	Fl.R. period 5s	30 9	6	Red tower; 18.	
11276 <i>M 5139</i>	Hino Shima.	32° 23.2' N 130° 24.5' E	Fl.(2)R. period 6s	33 10	5	Red tower; 31.	
11276.5 <i>M 5139.5</i>	-Breakwater.	32° 23.8' N 130° 24.5' E	Fl.(2)G. period 6s	39 12	7	White tower; 28.	
11278 <i>M 5139.2</i>	Tomari Yama.	32° 22.5' N 130° 25.3' E	Fl.G. period 4s	29 9	5	White round concrete structure; 18.	
11279 <i>M 5138.95</i>	Roya Ka Wachi Ko.	32° 23.5' N 130° 23.4' E	Fl.G. period 3s	30 9	3	White tower; 21.	
11280 <i>M 5140</i>	Higo.	32° 23.5' N 130° 24.3' E	Oc.W. period 4s lt. 3s, ec. 1s	154 47	17	White quadrangular concrete structure; 25.	
11284 <i>M 5140.2</i>	Hino Shima, NW.	32° 23.9' N 130° 24.2' E	Fl.R. period 3s	30 9	3	Red tower; 16.	
11288 <i>M 5140.4</i>	Uryu Saki.	32° 25.8' N 130° 25.6' E	Iso.W. period 6s	121 37	17	White round concrete structure; 33.	
11292 <i>M 5140.5</i>	Himedo Ko, breakwater.	32° 26.0' N 130° 24.0' E	Iso.G. period 6s	36 11	11	White round concrete structure; 28.	
11294 <i>M 5140.55</i>	-Breakwater.	32° 26.8' N 130° 25.4' E	Fl.G. period 4s	30 9	6	White round concrete structure; 19.	
11296 <i>M 5140.6</i>	Yatusiro Ko, W. breakwater.	32° 28.2' N 130° 26.3' E	Fl.G. period 3s	46 14	3	White round concrete structure; 31.	
11300 <i>M 5140.8</i>	Usi Se.	32° 28.2' N 130° 26.5' E	Fl.(2)W. period 5s	40 12	9	ISOLATED DANGER BRB, beacon, topmark; 28.	
11304 <i>M 5142.4</i>	Yatsushiro Ko, breakwater.	32° 31.2' N 130° 32.1' E	Fl.(2)R. period 8s 2 fl. 3s, ec. 5s	43 13	6	Red round metal tower; 31.	
11308 <i>M 5142</i>	-Groin.	32° 33.0' N 130° 33.0' E	Fl.G. period 3s	43 13	8	White round metal structure; 31.	
11312 <i>M 5141</i>	Shimo-Utano Hana.	32° 31.6' N 130° 27.8' E	Fl.(2)W. period 6s	148 45	17	White round concrete tower; 36.	Spotlight illuminates Sobei sei.
11316 <i>M 5141.2</i>	Amura, breakwater, head.	32° 32.0' N 130° 27.0' E	F.Fl.R. period 5s	39 12	F. 6 Fl 11	Red tower; 28.	
11320 <i>M 5141.6</i>	Aizu Ko, Naga Se.	32° 31.3' N 130° 26.0' E	Mo.(A)R. period 9s	30 9	10	Red round concrete structure; 24.	
11322 <i>M 5143.7</i>	Oniki Wan.	32° 14.1' N 130° 00.8' E	Iso.R. period 4s	29 9	7	Red tower; 19.	
USHIBUKA KO:							
11324 <i>M 5112</i>	-Ushibuka Moqushi.	32° 13.0' N 130° 00.7' E	F.W.	400 122	13	Wooden mast; 28.	Visible 045° -135° .
11328 <i>M 5110.2</i>	-Detached breakwater, S. head.	32° 11.6' N 130° 01.9' E	Fl.R. period 3s	43 13	5	Red concrete column; 31.	
11340 <i>M 5120</i>	-Ushibuka.	32° 11.0' N 129° 58.1' E	Fl.W. period 5s	226 69	10	White round concrete structure; 33.	
11344 <i>M 5118</i>	-Usibuka Ko, breakwater.	32° 10.9' N 130° 01.0' E	Iso.R. period 6s	49 15	8	Red tower; 31.	
11346 <i>M 5107.5</i>	-E. breakwater.	32° 11.9' N 130° 02.2' E	Fl.G. period 4s	33 10	5	White tower; 18.	
11352 <i>M 5117</i>	-Suguchi Ura approach.	32° 11.1' N 130° 00.4' E	Fl.(2)R. period 6s	49 15	5	Red tower; 35.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-KYUSHU							
11354	--Outer breakwater.	32° 10.8' N 130° 00.5' E	Fl.(2)G. period 6s	49 15	8	White tower; 36.	
11356 M 5114	-Nagateno.	32° 11.5' N 130° 01.1' E	Fl.(2)W. period 7s 2 fl. 3s, ec. 4s	279 85	12	White round concrete tower; 36.	
11360 M 5109	-Itimonoji, breakwater.	32° 11.3' N 130° 02.1' E	Oc.G. period 4s	36 11	11	White round concrete tower; 28.	
11361 M 5106.5	Katagawa, breakwater.	32° 10.8' N 130° 02.1' E	Iso.G. period 4s	26 8	5	White concrete structure; 18.	
11362 M 5107	Kutama Ura, breakwater, head.	32° 12.7' N 130° 01.9' E	Iso.R. period 6s	26 8	5	Red tower; 19.	
11363 M 5106.2	Yamanoura Ko, breakwater.	32° 13.3' N 130° 04.6' E	Iso.R. period 4s	26 8	7	Red concrete structure; 19.	
11364 M 5101.4	Usui Ko, breakwater, head.	32° 13.3' N 130° 10.7' E	F.F.I.R. period 3s	40 12	F. 6 Fl 11	Red round concrete structure; 32.	
11369 M 5126.5	Hukami Ko.	32° 15.2' N 130° 05.8' E	Fl.R. period 3s	27 8	5	Red concrete tower; 19.	
11372 M 5129.1	Kajiki Saki.	32° 16.9' N 130° 08.7' E	Fl.W. period 3s	66 20	5	White round concrete structure; 31.	
11376 M 5129.15	Kamihira Ko, breakwater.	32° 17.1' N 130° 08.0' E	F.F.I.G. period 3s	39 12	F. 3 Fl 7	White round concrete tower; 26.	
11380 M 5129.25	Miyana Kawachi.	32° 18.2' N 130° 08.5' E	Iso.R. period 6s	36 11	8	Red round concrete structure; 28.	
11384 M 5128	Kaminata Jima, in Hachiman Seto.	32° 15.8' N 130° 09.3' E	Fl.(2)W.R. period 5s	66 20	8	White round stone tower; 21.	R. 226° -232° , W.-226° .
11388 M 5129.6	Hegusi Ko, S. breakwater.	32° 15.5' N 130° 13.8' E	F.F.I.R. period 4s	39 12	F. 6 Fl 11	Red round concrete structure; 31.	
11389 M 5129.7	Mehuki Seto, Hyotan Sima.	32° 14.6' N 130° 12.8' E	Fl.R. period 3s	31 9	4	STARBOARD (B) R, beacon, topmark; 22.	
11390 M 5129.8	Kuzuwa Ko, breakwater.	32° 15.4' N 130° 11.2' E	Iso.G. period 6s	29 9	5	White tower; 22.	
11392 M 5129	Mate Shima.	32° 16.6' N 130° 11.4' E	Fl.W. period 4s	79 24	8	White round concrete structure; 30.	
11394 M 5129.05	Katasoba Ko.	32° 16.7' N 130° 12.8' E	Fl.R. period 5s	28 8	4	Red concrete structure; 19.	
11396 M 5129.3	Naga Se.	32° 18.8' N 130° 10.1' E	Mo.(A)R. period 8s	33 10	5	STARBOARD (B) R, beacon, topmark; 28.	
11400 M 5129.2	Nakata Ko, breakwater.	32° 20.0' N 130° 09.0' E	F.F.I.G. period 5s	39 12	F. 5 Fl 11	White quadrangular metal framework structure; 28.	
11404 M 5129.4	Otao Ko, No. 1 breakwater.	32° 21.4' N 130° 12.8' E	Fl.G. period 3s	39 12	7	White round concrete structure; 28.	
11410 M 5138	Yubunehara Wan.	32° 23.9' N 130° 15.7' E	Fl.G. period 3s	30 9	6	White tower; 19.	
11412 M 5138.4	Sumoto Ko, No. 1 breakwater.	32° 24.6' N 130° 16.4' E	Iso.G. period 4s	36 11	3	White tower; 27.	
11416 M 5143.8	Sakitsu Ura.	32° 18.4' N 130° 01.6' E	Iso.W. period 6s	79 24	5	White round concrete structure on quadrangular base; 31.	
11420 M 5143.9	-Amakusa, S. breakwater, head.	32° 18.6' N 130° 01.7' E	F.F.I.G. period 3s	36 11	F. 5 Fl 11	White quadrangular metal framework structure; 28.	
11424 M 5144	Oye Ko.	32° 19.0' N 129° 59.0' E	Iso.W. period 4s	263 80	17	White quadrangular concrete tower; 22.	Obscured 140° -013° . F.W. floodlight illuminates Shimabare Se to the SSW.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-KYUSHU							
11426 <i>M 5144.45</i>	-Oe ko, SE. breakwater, head.	32° 19.0' N 129° 59.5' E	Fl.G. period 3s	52 16	3	White concrete tower; 16.	
11432	Higo Takahama.	32° 22.5' N 129° 59.5' E	Fl.(2)R. period 6s	46 14	6	Red tower; 18.	
11436 <i>M 5144.5</i>	Takahama.	32° 23.0' N 129° 59.0' E	Fl.W. period 4s	213 65	20	White round concrete structure; 25.	
11438 <i>M 5154</i>	Yoko Sima Island.	32° 22.6' N 130° 14.3' E	F.Fl.W. period 5s	112 34	F. 10 Fl 16	White round concrete tower; 33.	
11440 <i>M 5145</i>	Higo Shimoda Ko, breakwater.	32° 25.3' N 130° 00.4' E	F.Fl.R. period 6s	52 16	F. 6 Fl 12	Red round concrete tower; 36.	
11440.5 <i>M 5146.27</i>	Tororo.	32° 28.6' N 130° 02.0' E	Dir.F.W.R.G.	33 10	W. 7 R. 4 G. 4	White tower; 15.	G. 175°-178° 30' , W.- 181° 30' , R.-185° . Emergency light W. 2M, R. 1M, G. 1M.
11441 <i>M 5146.2</i>	Reihoku.	32° 29.3' N 130° 02.3' E	Mo.(B)Y. period 8s	30 9	8	SPECIAL Y, beacon, topmark.	
11443 <i>M 5146.28</i>	Tosikara, breakwater.	32° 29.0' N 130° 02.0' E	Fl.(2)R. period 6s	59 18	13	Red tower, 41.	
11443.1 <i>M 5146.26</i>	-Inner breakwater.	32° 28.8' N 130° 02.2' E	Fl.(2)G. period 6s	43 13	11	White tower; 29.	
11443.5 <i>M 5146.25</i>	Huka Se.	32° 29.5' N 130° 02.1' E	Mo.(A)G. period 8s	30 9	9	PORT (B) G, beacon, topmark.	
11444 <i>M 5146.4</i>	Tomioka, Gyoka, S. breakwater.	32° 30.9' N 130° 01.9' E	Fl.R. period 3s	46 14	6	Red quadrangular metal framework tower; 31.	
11448 <i>M 5146</i>	Sikizakimuaki.	32° 31.6' N 130° 00.9' E	Fl.W. period 4s	184 56	20	White tower; 28.	
11452 <i>M 5147</i>	Nanatsu Se.	32° 32.8' N 130° 06.3' E	Mo.(A)G. period 8s	39 12	3	PORT (B) G, beacon, topmark; 33.	
11456 <i>M 5147.4</i>	Kogame Iwa.	32° 33.6' N 130° 06.5' E	Mo.(D)R. period 8s	49 15	3	STARBOARD (B) R, beacon, topmark; 39.	
11460 <i>M 5148</i>	Gotsu Sho.	32° 34.5' N 130° 06.7' E	Q.W.	46 14	5	N. CARDINAL BY, beacon, topmark; 39.	
11464 <i>M 5149</i>	Futae Ko, Tuzi Shima.	32° 33.0' N 130° 07.3' E	Fl.(2)R. period 8s	43 13	7	Red round concrete structure; 32.	
11468 <i>M 5149.4</i>	Futae Ko, No. 2 breakwater.	32° 32.8' N 130° 08.0' E	Fl.G. period 5s	46 14	4	White round concrete structure square base; 31.	
11472 <i>M 5150</i>	Oniike Ko, breakwater, head.	32° 33.0' N 130° 11.5' E	Fl.(2)R. period 6s	32 10	6	Red tower; 18.	
11476 <i>M 5150.4</i>	Gorio Ko, breakwater.	32° 31.0' N 130° 11.8' E	F.Fl.(2)R. period 10s	32 10	F. 3 Fl 7	Red round concrete tower; 28.	
11480 <i>M 5150.6</i>	Saitsu Ko, breakwater.	32° 29.6' N 130° 11.8' E	F.Fl.R. period 3s	39 12	F. 6 Fl 11	Red tower; 28.	
11484 <i>M 5151</i>	Hondo Ko, groin, head.	32° 27.6' N 130° 12.6' E	Fl.R. period 4s	39 12	6	Red tower; 32.	
11488 <i>M 5152</i>	Hondo Ko.	32° 27.2' N 130° 12.5' E	Mo.(A)G. period 8s	33 10	8	PORT (B) G, beacon, topmark; 36.	
11492 <i>M 5154.4</i>	Shimako Ko, No. 1 breakwater.	32° 28.5' N 130° 15.1' E	Iso.G. period 4s	43 13	3	White tower; 31.	
11494 <i>M 5152.3</i>	-Hondo Seto.	32° 25.3' N 130° 13.3' E	Fl.(2)R. period 6s	33 10	6	STARBOARD (B) R, beacon, topmark; 24.	
11496 <i>M 5153</i>	Goshiki Shima.	32° 25.0' N 130° 13.0' E	Fl.G. period 3s	28 9	3	PORT (B) G, beacon, topmark; 23.	
11500 <i>M 5152.5</i>	Kami-Tizuka Sima.	32° 24.2' N 130° 13.6' E	Fl.(2)R. period 6s	40 12	9	STARBOARD (B) R, beacon, topmark; 32.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-KYUSHU							
11504 <i>M 5154.6</i>	Kamituura Ko, N. breakwater.	32° 29.5' N 130° 17.5' E	Fl.G. period 3s	46 14	3	White tower; 31.	
11508 <i>M 5154.8</i>	Oura Ko, breakwater.	32° 31.2' N 130° 22.5' E	Iso.R. period 4s	42 13	4	Red round concrete structure; 32.	
11512 <i>M 5141.3</i>	Kaiba Ko, breakwater.	32° 33.0' N 130° 27.0' E	Fl.G. period 5s	43 13	3	White round concrete structure; 31.	
11516 <i>M 5141.4</i>	Satuma Se.	32° 32.5' N 130° 27.5' E	Fl.(2)W. period 5s	33 10	9	ISOLATED DANGER BRB, beacon, topmark; 30.	
11520 <i>M 5141.5</i>	Yanagi Ko, breakwater, head.	32° 33.0' N 130° 26.0' E	Iso.G. period 4s	39 12	11	White round concrete structure; 28.	
11524 <i>M 5183</i>	Sukawa Ko, E. breakwater.	32° 38.8' N 130° 17.7' E	Oc.(2)R. period 6s	36 11	11	Red tower; 31.	
11528 <i>M 5156</i>	Yu Shima.	32° 36.3' N 130° 19.9' E	Fl.W. period 3s	128 39	11	White round concrete tower; 39.	Visible 336° -243° .
11532 <i>M 5157</i>	Yu Sima Ko, breakwater.	32° 35.7' N 130° 20.1' E	Fl.R. period 3s	30 9	6	Red concrete tower; 18.	
11536 <i>M 5154.7</i>	Akasaki, E. breakwater, head.	32° 31.2' N 130° 19.2' E	Iso.G. period 4s	36 11	3	White tower; 27.	
11540 <i>M 5158</i>	Ebito Ko, breakwater.	32° 34.6' N 130° 25.1' E	Fl.(2)G. period 8s	39 12	11	White round concrete structure; 28.	
11542 <i>M 5159</i>	Hatonokama Ko.	32° 34.6' N 130° 24.3' E	Fl.R. period 3s	25 8	3	Red tower; 16.	
11544 <i>M 5160</i>	Misumi.	32° 37.5' N 130° 26.6' E	Fl.(2)W. period 7s	131 40	12	White tower; 22.	Visible 109° -316° .
11548 <i>M 5162</i>	Misumi Ko, Ninai Shima.	32° 36.3' N 130° 27.6' E	Fl.(2)W. period 6s	39 12	11	White round concrete tower; 31.	
11552 <i>M 5164</i>	Tera Shima.	32° 35.7' N 130° 28.5' E	Fl.W.R. period 3s	33 10	3	White round stone beacon; 36.	R. 106° -139° , W.-356° .
11556 <i>M 5143</i>	Tobaseshima.	32° 34.6' N 130° 29.3' E	Fl.W. period 4s	108 33	7	White round stone tower; 27.	Visible 297° -154° .
11560 <i>M 5165</i>	Higo, Kabuto Shima.	32° 34.5' N 130° 27.5' E	Fl.W. period 3s	39 12	3	White round concrete tower; 28.	
11564 <i>M 5143.2</i>	-Mihune.	32° 36.9' N 130° 33.0' E	Mo.(A)R. period 8s	39 12	9	STARBOARD (B) R, beacon, topmark; 31.	
SHIMABARA KAIWAN:							
11568 <i>M 5179.8</i>	-Shimabara, about 3.5 kilometers N. of city.	32° 49.0' N 130° 22.0' E	Fl.G. period 4s	46 14	8	White round concrete structure; 30.	
11572 <i>M 5180</i>	-Simabara.	32° 46.8' N 130° 22.9' E	Fl.W. period 4s	62 19	5	White square metal framework tower; 43.	
11576 <i>M 5182</i>	-Moso Se.	32° 45.8' N 130° 22.7' E	Mo.(A)R. period 8s	33 10	9	STARBOARD (B) R, beacon, topmark; 36.	
11580 <i>M 5181</i>	-Breakwater.	32° 45.9' N 130° 22.5' E	Fl.(2)R. period 6s 2 fl. 2s, ec. 4s	39 12	5	Red round tower on quadrangular base; 28.	
11584 <i>M 5182.5</i>	-Hukae Ko.	32° 42.5' N 130° 21.3' E	Iso.R. period 6s	43 13	12	Red round concrete structure; 33.	
11586	Hiraiwa.	32° 39.7' N 130° 30.7' E	Fl.R. period 3s	31 9	3	White tower; 16.	
11588 <i>M 5167</i>	-Oda Ko, E. training wall.	32° 40.1' N 130° 32.2' E	Fl.G. period 3s	39 12	3	White quadrangular metal framework structure; 33.	
11592 <i>M 5168</i>	Sumiyoshi.	32° 42.3' N 130° 35.6' E	Iso.W. period 6s	131 40	17	White octagonal concrete tower; 56.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-KYUSHU							
11596 M 5170	Hyakkan Ko.	32° 48.0' N 130° 36.2' E	Fl.W. period 3s	46 14	7	White round tower; 28.	
11600 M 5171	-Higo, Sioyo, S. breakwater.	32° 49.0' N 130° 36.0' E	Fl.(2)R. period 8s	43 13	12	Red quadrangular metal framework tower; 28.	
11604 M 5172	-Kawati.	32° 49.5' N 130° 35.0' E	Fl.W. period 4s	151 46	15	White tower; 32.	
11608 M 5172.4	-Kawati Ko, N. breakwater.	32° 49.9' N 130° 34.9' E	Fl.G. period 3s	39 12	3	White tower; 28.	
11609 M 5179.75	Suge Hana.	32° 50.9' N 130° 20.7' E	Fl.R. period 3s	32 10	3	Red tower; 16.	
11610 M 5179.7	-Hamasuge.	32° 51.6' N 130° 20.0' E	Fl.(2)R. period 6s	36 11	6		
11612 M 5172.7	-Taishokai Ko, No. 1 breakwater.	32° 53.0' N 130° 31.0' E	Fl.R. period 3s	39 12	11	Red round concrete structure; 32.	
11616 M 5173.2	-Nagasu Ko.	32° 55.0' N 130° 26.0' E	Iso.G. period 6s	42 13	12	White round concrete structure; 28.	
11620 M 5179.6	-Kunimi Tahira Ko, breakwater.	32° 52.4' N 130° 18.8' E	F.Fl.R. period 5s	46 14	F. 6 Fl 12	Red round tower; 25.	
11622 M 5179.65	-Breakwater.	32° 52.2' N 130° 18.5' E	Fl.R. period 4s	36 11	6		
11624 M 5179.2	-Konagai Ko, breakwater, head.	32° 55.5' N 130° 11.8' E	Iso.G. period 6s	43 13	12	White tower; 31.	
11628 M 5174	-Miike Ko , about 20 meters 223° from Yotsu Yana summit.	32° 59.9' N 130° 25.8' E	Fl.W. period 10s	213 65	21	White round concrete tower; 49.	
11632 M 5174.4	--Offing Light.	32° 59.3' N 130° 21.1' E	Fl.(2)W. period 5s	36 11	11	ISOLATED DANGER BRB, beacon, topmark; 36.	
11636 M 5175	--N. groin.	33° 00.3' N 130° 23.5' E	Fl.G. period 3s	49 15	7	White round concrete pillar on square base; 36.	
11640 M 5175.3	-Omuta Ko.	33° 02.0' N 130° 25.3' E	Fl.G. period 4s	43 13	6	White tower; 31.	
11644 M 5179	Yato Hana.	32° 57.3' N 130° 13.6' E	Fl.W. period 3s	125 38	17	White round concrete tower; 29.	
11648 M 5179.04	Takazakiko, W. breakwater, head.	32° 57.0' N 130° 13.4' E	F.Fl.G. period 3s	43 13	F. 5 Fl 12	White round metal structure; 30.	
11652 M 5179.1	Michikoshi Ko, S. breakwater, head.	32° 57.5' N 130° 13.6' E	F.Fl.(2)G. period 6s	39 12	F. 5 Fl 11	White round concrete structure; 25.	F.W. spotlight illuminates Tsuru Se 800 meters NE.
11654	-N. breakwater, head.	32° 58.1' N 130° 13.6' E	Fl.R. period 5s	28 9	3	Red tower; 16.	
11656 M 5178.5	-Kame Se.	32° 59.0' N 130° 13.0' E	Fl.(2)W. period 5s	33 10	9	ISOLATED DANGER BRB, beacon, topmark; 30.	
11660 M 5177	-Okikami Se.	33° 03.7' N 130° 13.7' E	Fl.(2)W. period 5s	43 13	12	ISOLATED DANGER BRB, beacon, topmark; 39.	
11664 M 5177.2	-Hizen-Ka Sima.	33° 04.6' N 130° 12.3' E	Mo.(A)G. period 8s	39 12	8	PORT (B) G, beacon, topmark; 39.	
11668 M 5177.4	-Suminoe Ko Range, front.	33° 09.0' N 130° 14.0' E	Fl.W. period 3s	33 10	11	White round metal structure; 33.	
11672 M 5177.41	--Rear, 370 meters 331° 24' from front.	33° 09.3' N 130° 13.4' E	Fl.W. period 3s	49 15	12	White round metal structure; 56.	
11676 M 5177.5	--No. 1.	33° 11.0' N 130° 14.1' E	Fl.(2)G. period 6s	27 8	5	PORT (B) G, beacon, topmark; 17.	
11680 M 5177.6	--No. 2.	33° 11.2' N 130° 14.2' E	Fl.(2)R. period 6s	27 8	5	STARBOARD (B) R, beacon, topmark; 17.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-KYUSHU							
11684 M 5177.8	--No. 4.	33° 11.9' N 130° 13.3' E	Fl.R. period 3s	39 12	5	STARBOARD (B) R, beacon, topmark; 39.	
11688 M 5176.5	-Okinohasi.	33° 08.0' N 130° 21.8' E	Mo.(D)R. period 8s	49 15	9	STARBOARD (B) R, beacon, topmark; 49.	F.W., F.R. and F.G. mark bridge 3.5 miles upstream.
11692 M 5176.7	-Hayatue Kawaguti.	33° 07.8' N 130° 19.1' E	Mo.(C)R. period 10s	33 10	7	STARBOARD (B) R, beacon, topmark; 36.	
11696 M 5176.8	-W.	33° 08.6' N 130° 19.6' E	Oc.W. period 4s	43 13	12	White round metal structure; 32.	
11698 M 5177.22	Suminoe Ko, approach.	33° 08.9' N 130° 17.3' E	Mo.(U)W. period 8s	22 7	4		
11699 M 5177.24	-W.	33° 08.9' N 130° 17.1' E	2 Mo.(U)W. period 8s	22 7	4		
11700 M 5176.85	-Hiroe Ko.	33° 10.0' N 130° 16.6' E	Iso.R. period 4s	42 13	5	Red round metal tower; 24.	
11704 M 5175.8	-Tikugo Hiyakuken.	33° 04.2' N 130° 22.2' E	Mo.(B)R. period 8s	52 16	9	STARBOARD (B) R, beacon, topmark; 46.	
11705 M 5175.5	Yabe Kawa.	33° 05.0' N 130° 24.8' E	Fl.R. period 3s	43 13	4	Red tower; 18.	
11706 M 5175.85	Yamoto.	33° 05.5' N 130° 23.4' E	Iso.W. period 6s	32 10	10	White tower; 19.	
11708 M 5175.9	--Offing.	33° 05.9' N 130° 21.5' E	Mo.(A)R. period 8s	33 10	9	STARBOARD (B) R, beacon, topmark; 36.	
11709 M 5182.8	-Simabara Wan.	32° 39.7' N 130° 20.3' E	Fl.G. period 3s	33 10	5	White tower; 18.	
11709.2 M 5182.2	-Hotsu Ko, breakwater.	32° 41.3' N 130° 21.6' E	Fl.(2)R. period 6s	39 12	7	Red tower; 30.	
11709.8 M 5183.2	-Breakwater.	32° 38.8' N 130° 17.5' E	Fl.R. period 3s	26 8	6	Red tower; 19.	
11710 M 5183.5	-Hurusiro.	32° 37.5' N 130° 14.9' E	Fl.G. period 4s	30 9	3	White tower; 19.	
11712 M 5184	-Okino Se.	32° 36.7' N 130° 14.2' E	Fl.(2)W. period 5s	46 14	8	ISOLATED DANGER BRB, beacon, topmark; 39.	
11716 M 5186	Kuchinotsu Ko.	32° 36.1' N 130° 11.8' E	Fl.(2)W. period 7s 2 fl. 3s, ec. 4s	132 40	12	White octagonal brick tower; 20.	Visible 178° -066°.
11716.1 M 5187.2	-Breakwater, head.	32° 36.2' N 130° 12.2' E	Fl.R. period 3s	32 10	6	Red tower; 18.	
11728 M 5187.3	Setsume Saki.	32° 35.0' N 130° 10.0' E	Iso.W. period 6s	42 13	12	White round concrete tower; 39.	
11729 M 5187.55	Simabara.	32° 41.4' N 130° 07.6' E	Fl.W. period 3s	49 15	8	White tower; 39.	
11730 M 5187.5	Kyodomari Ko, W. breakwater.	32° 40.8' N 130° 08.2' E	Fl.R. period 3s	23 7	3	Red tower; 16.	
11732 M 5187.4	-E. basin, W. breakwater.	32° 40.9' N 130° 08.5' E	Iso.R. period 4s	39 12	8	Red tower; 26.	
11736 M 5187.6	Syamisen Sima.	32° 45.5' N 130° 03.1' E	Mo.(A)G. period 8s	49 15	8	PORT (B) G, beacon, topmark, 49.	
11740 M 5188	Wakimisaki Ko, N. breakwater.	32° 34.6' N 129° 47.3' E	F.Fl.R. period 5s	43 13	F 6 Fl 12	Red tower; 31.	
11744 M 5188.3	-S. breakwater, N.	32° 34.0' N 129° 47.0' E	F.Fl.G. period 5s	46 14	F 5 Fl 12	White round concrete structure; 31.	
11748 M 5189	--S.	32° 34.2' N 129° 47.2' E	Fl.R. period 3s	46 14	12	Red tower; 31.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-KYUSHU							
11749 <i>M 5191.4</i>	Kabasima Ko.	32° 34.0' N 129° 47.3' E	Oc.G. period 8s	43 13	12	White tower; 28.	
11750	-Bridge.	32° 34.1' N 129° 47.1' E	F.W.	66 20	9		Marks center of span. F.G. 6M close W. F.R. 5M close E.
11752 <i>M 5187.64</i>	Mogi Ko, E. breakwater, head.	32° 42.3' N 129° 55.0' E	F.Fl.G. period 3s	42 13	F. 3 Fl 7	White tower; 28.	
11754 <i>M 5187.67</i>	-Outer breakwater, N. head.	32° 41.8' N 129° 55.4' E	Fl.(2)G. period 6s	46 14	8	White concrete structure; 28.	
11756 <i>M 5189.4</i>	-Outer breakwater.	32° 34.0' N 129° 47.0' E	F.Fl.(2)R. period 10s	36 11	F. 6 Fl 11	Red round tower on quadrangular base; 28.	
11760 <i>M 5191</i>	Kaba Shima.	32° 32.9' N 129° 46.7' E	Fl.W. period 20s	413 126	28	White tower; 50.	Visible 213° -167° , partially obscured by land when bearing 125° -167° .
11764 <i>M 5192</i>	Otagami.	32° 33.8' N 129° 44.6' E	Fl.G. period 3s	88 27	12	White tower; 22.	
11768 <i>M 5193</i>	Nomokita Ura.	32° 35.3' N 129° 45.2' E	Iso.W. period 6s	134 41	17	White tower; 35.	F.W. illuminates rock 100 meters N.
11772 <i>M 5193.2</i>	Nomo Ko.	32° 35.2' N 129° 45.5' E	F.Fl.G. period 6s	36 11	F. 5 Fl 11	White round concrete tower; 33.	
11776 <i>M 5193.3</i>	Nomo Ko.	32° 35.4' N 129° 45.3' E	Fl.R. period 3s	36 11	3	Red round concrete structure; 31.	
11780 <i>M 5193.4</i>	Mitu Se.	32° 36.7' N 129° 42.5' E	Fl.W. period 5s	85 26	12	White round concrete structure; 28.	
11784 <i>M 5193.42</i>	Hizen Ha Sima.	32° 37.4' N 129° 44.4' E	Fl.W. period 3s	164 50	14	White round metal tower; 33.	
11786	Hizen Takasima Ko.	32° 39.5' N 129° 45.6' E	Fl.(2)G. period 6s	33 10	3	White tower; 22.	
11788 <i>M 5193.6</i>	Hizen Kuro Se.	32° 40.9' N 129° 46.9' E	Fl.W. period 3s	49 15	12	White round concrete structure; 41.	
NAGASAKI KO:							
11792 <i>M 5194</i>	-Ito Shima.	32° 42.7' N 129° 45.8' E	Fl.(4)W. period 30s 4 fl. 15s	210 64	21	White hexagonal metal tower; 36.	Visible 030° -275° .
11796 <i>M 5195</i>	-Hira Se.	32° 42.7' N 129° 46.9' E	Fl.(2)W. period 5s	52 16	7	ISOLATED DANGER BRB, beacon, topmark; 46.	
11798 <i>M 5193.95</i>	-Breakwater.	32° 42.2' N 129° 46.9' E	Fl.R. period 3s	30 9	6	Red tower; 18.	
11800 <i>M 5193.7</i>	-Onaka Seto, W.	32° 41.3' N 129° 47.3' E	F.Fl.G. period 5s	36 11	F. 7 Fl 11	White round concrete structure, quadrangular base; 31.	
11804 <i>M 5193.8</i>	--N.	32° 41.5' N 129° 47.6' E	F.Fl.R. period 5s	46 14	F. 8 Fl 12	White round concrete structure; 28.	
11808 <i>M 5195.5</i>	-Nagasaki Ko.	32° 42.9' N 129° 48.6' E	Iso.G. period 4s	49 15	5	White round concrete tower; 33.	
11812 <i>M 5198.8</i>	-Koe Oki.	32° 45.2' N 129° 48.4' E	Fl.G. period 4s	46 14	10	White tower; 36.	
11816 <i>M 5197</i>	-Mitsubishi Zosen Kagenoo wharf.	32° 42.3' N 129° 50.0' E	Fl.(2)R. period 6s	46 14	12	Red tower; 37.	Private light.
11820 <i>M 5198.4</i>	-Asahi-mati, breakwater.	32° 44.5' N 129° 52.0' E	Iso.G. period 6s	39 12	11	White round concrete tower; 31.	2 F.W. 7M. 2 F.G. 5M and 2 F.R. 4M mark bridge 750 meters N.
11826 <i>M 5200</i>	Hisen Hira Se.	32° 47.1' N 129° 45.2' E	Fl.(2)W. period 5s	62 19	8	ISOLATED DANGER BRB, beacon, topmark; 56.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-KYUSHU							
11828 <i>M 5199</i>	Shikimi Ko, breakwater.	32° 47.1' N 129° 47.3' E	Fl.R. period 3s	36 11	3	Red round concrete tower; 25.	
11832 <i>M 5203</i>	Mie Ura, E. breakwater.	32° 49.2' N 129° 44.9' E	Fl.R. period 4s	36 11	3	Red round concrete tower; 28.	
11833 <i>M 5202.5</i>	Nagasaki Gyoko, range, front.	32° 49.3' N 129° 45.6' E	F.Y.	220 67	13	White tower, triangular topmark; 43.	
11833.1 <i>M 5202.51</i>	-Rear, 012° 24' from front.	32° 49.3' N 129° 45.6' E	F.Y.	266 81	13	White tower, triangular topmark; 33.	
11834 <i>M 5202</i>	-Detached breakwater, W. head.	32° 48.8' N 129° 45.4' E	Fl.R. period 3s	52 16	4	Red concrete structure; 31.	
11835 <i>M 5202.3</i>	--E. head.	32° 48.3' N 129° 46.2' E	Fl.G. period 3s	56 17	8	White tower; 25.	
11836 <i>M 5201</i>	No Se.	32° 48.0' N 129° 44.0' E	Mo.(A)G. period 8s	62 19	6	PORT (B) G, beacon, topmark; 50.	
11840 <i>M 5207</i>	O-Hiki Sima, O Se.	32° 52.5' N 129° 32.8' E	Fl.W. period 4s	52 16	12	White round concrete tower; 49.	
11844 <i>M 5209</i>	Nezumi Se.	32° 56.5' N 129° 37.7' E	Q.(6)+L.Fl.W. period 15s	49 15	8	S. CARDINAL YB, beacon, topmark; 36.	
11848 <i>M 5208.4</i>	Seto Ko, N. breakwater, S.	32° 56.4' N 129° 38.1' E	Fl.(2)G. period 6s	39 12	3	White round concrete structure; 27.	
11852 <i>M 5208</i>	-Breakwater, head.	32° 55.9' N 129° 38.0' E	Fl.(2)R. period 6s	46 14	5	Red tower; 31.	
11856 <i>M 5207.6</i>	Kashira Shima.	32° 54.8' N 129° 38.3' E	Fl.W. period 3s	62 19	8	White round concrete structure; 49.	
11859 <i>M 5209.2</i>	Matusima Ko.	32° 56.5' N 129° 37.0' E	Fl.R. period 3s	29 9	4	Red tower; 18.	
11859.5 <i>M 5209.3</i>	Matsushima Channel, shoal.	32° 56.7' N 129° 36.2' E	Q.W.	36 11	3	N. CARDINAL BY, beacon, topmark; 28.	
11860 <i>M 5209.5</i>	Matsu Shima, breakwater, head.	32° 57.0' N 129° 36.0' E	F.Fl.R. period 4s	43 13	F 5 Fl 8	Red round concrete tower; 26.	
11864 <i>M 5204</i>	O-date Shima.	33° 01.0' N 129° 26.0' E	Fl.W. period 5s	279 85	17	White round concrete tower; 36.	
11868 <i>M 5233</i>	Ta Shima.	33° 00.0' N 129° 49.0' E	Fl.W. period 3s	102 31	12	White round concrete structure; 36.	
11870 <i>M 5213</i>	Tsushima Suido Bridge.	33° 02.3' N 129° 38.5' E	F.W.	118 36	8		F.R. 36m 4M and F.G. 36m 4M mark either side of navigable channel.
11872 <i>M 5210</i>	Kabuto Shima.	33° 00.8' N 129° 37.8' E	Fl.W. period 3s	78 24	5	White round concrete tower; 27.	
--SAKITO KO:							
11880 <i>M 5216</i>	--Sakito Ko, approach range, front.	33° 00.8' N 129° 34.1' E	F.R.	125 38	12	Gray triangular metal framework tower, triangular topmark; 26.	
11884 <i>M 5216.1</i>	--Rear, about 128 meters 102° from front.	33° 00.8' N 129° 34.2' E	F.R.	174 53	12	Gray triangular metal framework tower, triangular topmark; 33.	
11900 <i>M 5211</i>	Mitoko Shima.	33° 00.5' N 129° 32.2' E	Iso.W. period 6s	157 48	5	White round concrete tower; 36.	Auxiliary light F.W. illuminates white beacon on reef 250 meters W.
11904 <i>M 5225</i>	Eno Shima.	33° 00.1' N 129° 21.1' E	Fl.G. period 3s	62 19	5	White round concrete tower; 28.	
11906	Yoko Sone.	32° 57.4' N 129° 20.8' E	Q.(6)+L.Fl.W. period 15s	75 23	14	S. CARDINAL YB, beacon, topmark; 79.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-KYUSHU							
11908 <i>M 5226</i>	Huku Se, on rock.	33° 04.4' N 129° 26.8' E	Fl.(2)W. period 5s	72 22	12	ISOLATED DANGER BRB, beacon, topmark; 79.	
11912 <i>M 5230</i>	Shira Se, islet at entrance to Sasebo Wan.	33° 05.6' N 129° 37.6' E	Fl.W.R. period 4s	59 18	8	White round concrete tower; 22.	R. 266° -086° , covering the dangers Kanise and Nakano Se, W.-266° .
11916 <i>M 5232.4</i>	Hario Seto.	33° 03.6' N 129° 45.1' E	Fl.W. period 3s	52 16	8	White round metal structure; 28.	
11920 <i>M 5232</i>	Kogo Zaki.	33° 05.8' N 129° 40.1' E	Fl.W. period 6s	210 64	21	White square concrete tower; 50.	Traffic signals.
SASEBO KO:							
11921 <i>M 5236.7</i>	-Fairway, No 2.	33° 06.2' N 129° 41.7' E	Fl.R. period 3s	26 8	4	STARBOARD (B) R, beacon, topmark.	Radar reflector.
11922 <i>M 5236.8</i>	--No 3.	33° 06.7' N 129° 42.7' E	Fl.(2)G. period 6s	23 7	4	PORT (B) G, beacon, topmark.	Radar reflector.
11923 <i>M 5236.9</i>	--No 4.	33° 06.4' N 129° 42.9' E	Fl.(2)R. period 6s	23 7	4	STARBOARD (B) R, beacon, topmark.	Radar reflector.
11924 <i>M 5236.5</i>	-Hanare Shoal.	33° 05.5' N 129° 43.0' E	Q.(9)W. period 15s	33 10	4	W. CARDINAL YBY, beacon, topmark; 33.	
11928 <i>M 5236</i>	-Benten Shima.	33° 08.7' N 129° 42.9' E	Fl.W. period 3s	62 19	9	White metal framework structure; 25.	
11956 <i>M 5240.48</i>	Hiizen Ohira Se.	33° 10.4' N 129° 36.6' E	Q.W.	46 14	8	N. CARDINAL BY, beacon, topmark; 39.	
11956.5 <i>M 5240.6</i>	Ainoura Ko, breakwater.	33° 11.6' N 129° 37.2' E	Fl.R. period 3s	23 7	3	Red tower; 16.	
11956.7 <i>M 5240.65</i>	-S. breakwater.	33° 10.9' N 129° 38.5' E	Fl.(2)R. period 6s	39 12	4	Red tower; 28.	
11957 <i>M 5240.44</i>	Usunoura Ko, N. breakwater.	33° 10.3' N 129° 35.6' E	Fl.R. period 3s	23 7	2	Red tower; 16.	
11958 <i>M 5240.7</i>	Kuzyvkusima Wan, breakwater.	33° 10.0' N 129° 38.5' E	Iso.G. period 8s	30 9	5	White tower; 19.	
11960 <i>M 5240.4</i>	Ushigakubi, on SW. extremity of Hashira Iwa.	33° 09.7' N 129° 34.9' E	Iso.W. period 8s	39 12	5	White round concrete tower; 36.	
11964 <i>M 5240.43</i>	Taka Shima.	33° 10.2' N 129° 35.4' E	Fl.R. period 3s	29 9	3	Red round tower on square base; 18.	
11968 <i>M 5242.2</i>	Kuro Shima Ko.	33° 08.8' N 129° 31.7' E	Fl.R. period 3s	25 8	4	Red tower; 18.	
11972 <i>M 5241</i>	Simo-Kareki Shima.	33° 12.2' N 129° 30.2' E	Fl.W. period 3s	121 37	9	White square concrete tower; 53.	
11976 <i>M 5240.46</i>	Usunoura Ko Kusudomari, E. breakwater.	33° 12.8' N 129° 34.9' E	Fl.R. period 3s	36 11	3	Red tower; 27.	
11980 <i>M 5242.1</i>	Tsuyoshi Ko, E. breakwater.	33° 12.6' N 129° 27.4' E	Fl.G. period 3s	52 16	3	White tower; 34.	
11984 <i>M 5240</i>	Ogami Sima.	33° 10.5' N 129° 20.1' E	Fl.W. period 4s	250 76	20	White round concrete structure; 39.	
11988 <i>M 5239.8</i>	Mijanoura Ko, W. breakwater, head.	33° 11.4' N 129° 21.2' E	Fl.G. period 3s	31 9	3	White tower; 18.	
11992 <i>M 5239.7</i>	Shishiki Wan.	33° 11.8' N 129° 24.1' E	Fl.G. period 3s	43 13	3	White round tower on square base; 31.	
11994 <i>M 5239.6</i>	Hayahuku Ko.	33° 13.5' N 129° 23.1' E	Fl.R. period 3s	33 10	3	Red tower; 16.	
11994.5	Hirado Hayahuku Se.	33° 13.4' N 129° 23.1' E	F.W.	75 23		White tower; 36.	Illuminates reefs 890 meters NW.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-KYUSHU							
12000 <i>M 5239.1</i>	-S. breakwater.	33° 21.4' N 129° 26.2' E	Fl.(2)G. period 6s	30 9	6	White round concrete tower; 31.	
12002	Ikutuki Sima, breakwater.	33° 21.5' N 129° 26.2' E	Fl.(2)R. period 6s	39 12	6	Red tower; 28.	
12004 <i>M 5238</i>	Shiomi Saki.	33° 21.1' N 129° 26.2' E	F.W.				F.W., F.R., and F.G. lights mark bridge close SW.
12008 <i>M 5239</i>	Ichibiura Ko, N. breakwater.	33° 23.4' N 129° 26.4' E	F.Fl.R. period 5s	46 14	F. 6 Fl 12	Red tower; 28.	
12010 <i>M 5239.15</i>	-S. breakwater.	33° 23.1' N 129° 26.3' E	Fl.R. period 3s	36 11	6	Red tower; 19.	
12012 <i>M 5239.5</i>	Obae Hana.	33° 26.4' N 129° 25.8' E	Iso.W. period 6s	330 101	12	White round concrete tower; 36.	
			F.W.				
12014 <i>M 5239.55</i>	Nagase Hana.	33° 21.5' N 129° 24.1' E	Fl.W. period 4s	358 109	20	White concrete structure; 30.	
12016 <i>M 5242.6</i>	Kawachi Wan, breakwater.	33° 19.3' N 129° 31.4' E	Fl.(2)R. period 6s	39 12	11	Red tower; 29.	
12020 <i>M 5242.4</i>	Aosa Zaki.	33° 19.7' N 129° 33.8' E	Fl.W. period 4s	33 10	11	White round concrete tower on quadrangular base; 28.	
12024 <i>M 5245</i>	Tabira Ko, S. Breakwater.	33° 21.5' N 129° 34.6' E	F.Fl.R. period 3s	43 13	F. 6 Fl 12	Red round concrete structure; 33.	
12032 <i>M 5244</i>	Ko-Dasuke Se.	33° 21.6' N 129° 34.2' E	Mo.(B)R. period 8s	28 9	6	STARBOARD (B) R, beacon, topmark; 23.	
12034 <i>M 5245.5</i>	Haeno Saki.	33° 22.0' N 129° 34.2' E	Fl.(2)W. period 6s	28 9	8	White tower; 22.	
12036 <i>M 5246</i>	Hirado Ko.	33° 22.0' N 129° 33.0' E	Fl.G. period 3s	30 9	11	White round concrete structure; 23.	
12038 <i>M 5246.5</i>	Hirado Seto.	33° 22.6' N 129° 34.1' E	Iso.W. period 6s	24 7	4	White tower; 12.	
12040 <i>M 5250.6</i>	Usuka Wan Ko, breakwater, head.	33° 22.4' N 129° 32.4' E	F.Fl.R. period 5s	36 11	F. 6 Fl 11	Red round concrete structure; 28.	
12044 <i>M 5248.2</i>	Hiro Se.	33° 22.7' N 129° 34.3' E	Fl.W. period 5s	46 14	8	White round concrete tower; 22.	
12048 <i>M 5248</i>	-Training Wall.	33° 22.6' N 129° 34.2' E	Fl.W. period 3s	42 13	9	Round tower, black and white bands; 36.	
12052 <i>M 5250</i>	Tasuke Ko, outer breakwater, head.	33° 23.4' N 129° 33.8' E	Iso.R. period 4s	43 13	4	Red tower; 28.	
12056 <i>M 5250.8</i>	Sakise Hana.	33° 26.1' N 129° 33.0' E	Fl.(2)W. period 6s	46 14	3	White quadrangular concrete structure on round base; 36.	
12060 <i>M 5250.9</i>	Taku Sima, breakwater, head.	33° 25.6' N 129° 31.1' E	Fl.R. period 3s	30 9	6	Red tower; 18.	
12064 <i>M 5250.4</i>	Yoko Shima.	33° 25.3' N 129° 32.1' E	Fl.W. period 4s	66 20	5	White round concrete tower; 36.	
	O SHIMA:						
12068 <i>M 5253</i>	-Magari Bana.	33° 28.1' N 129° 31.4' E	Fl.W. period 4s	39 12	11	White round concrete structure on square concrete base; 29.	
12070 <i>M 5253.2</i>	-Azutiosima Ko.	33° 28.8' N 129° 31.8' E	Iso.R. period 8s	31 9	11	Red tower; 18.	
12072 <i>M 5252</i>	-Oshima Ko, Kannoura, breakwater.	33° 28.3' N 129° 33.6' E	Fl.R. period 3s	43 13	3	Red tower; 28.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-KYUSHU							
12075 M 5251.5	-Onezaka Ko.	33° 29.7' N 129° 33.3' E	Fl.R. period 3s	29 9	3	Red tower; 18.	
12076 M 5251	-Nagasaki Bana.	33° 30.6' N 129° 33.3' E	Fl.W. period 4s	82 25	5	White round concrete structure; 33.	
12080 M 5253.4	--Umano Kashira Zaki.	33° 28.4' N 129° 29.9' E	Fl.W. period 5s	151 46	3	White round concrete structure on quadrangular concrete base; 31.	
12084 M 5254	Tsu Saki.	33° 23.9' N 129° 40.4' E	Fl.W. period 4s	160 49	5	White round concrete tower; 39.	
12088 M 5254.95	Tukinokawa Ko, breakwater.	33° 21.5' N 129° 43.6' E	Fl.R. period 3s	39 12	5	Red tower; 28.	
12090 M 5254.97	Imabuku Ko, breakwater, head.	33° 21.3' N 129° 45.9' E	Fl.(2)R. period 6s	23 7	3	Red tower; 16.	
12092 M 5254.5	Uokono Shima.	33° 25.0' N 129° 42.0' E	Fl.W. period 5s	226 69	12	White round concrete structure; 42.	
12096 M 5254.6	Ao Ura, N. Breakwater.	33° 27.0' N 129° 46.0' E	Iso.G. period 4s	36 11	11	White round concrete tower; 31.	
12098	Takeko Sima.	33° 27.1' N 129° 45.2' E	Fl.G. period 4s	30 9	5		
12100 M 5254.8	Kai Se.	33° 27.7' N 129° 44.6' E	Fl.W. period 3s	49 15	5	White round concrete structure; 39.	
12104 M 5254.86	Oteisi Hana.	33° 24.7' N 129° 45.6' E	Fl.W. period 4s	29 9	10	White round concrete structure; 21.	
12106	Kase Se.	33° 23.6' N 129° 45.9' E	Q.(3)W. period 10s	26 8	5	E. CARDINAL BYB, beacon, topmark; 20.	
12108 M 5255	Kanai Hana.	33° 22.3' N 129° 47.4' E	Fl.W. period 3s	36 11	10	White quadrangular concrete tower; 25.	
12112 M 5255.22	Kugi Shima, breakwater.	33° 18.8' N 129° 50.3' E	F.Fl.G. period 3s	39 12	F. 5 Fl 12	White round concrete structure; 31.	
12116 M 5255.24	Imari Ko.	33° 21.4' N 129° 49.6' E	Fl.W. period 3s	36 11	9	White round concrete structure; 29.	
12118 M 5255.05	-Outer Harbor, Sea Berth A.	33° 21.1' N 129° 48.4' E	Mo.(U)W. period 10s	82 25	5		Auxiliary light F.W. 3M 180 meters NNW.
12118.1 M 5255.06	--Sea Berth B.	33° 21.0' N 129° 48.5' E	Mo.(U)W. period 10s	28 8	5		Auxiliary light F.W. 3M 78 meters NW.
12118.2 M 5255.07	--Sea Berth C.	33° 20.9' N 129° 48.6' E	Mo.(U)W. period 10s	28 8	5		Auxiliary light F.W. 3M 70 meters ESE.
12120 M 5255.23	-Hatu Saki.	33° 24.9' N 129° 47.8' E	Fl.W. period 3s	39 12	3	White round concrete structure; 28.	
12124 M 5255.1	Imari Ko Uranosaki, breakwater.	33° 20.0' N 129° 48.0' E	Oc.R. period 5s lt. 3s, ec. 2s	39 12	11	Red round concrete structure; 31.	
12136 M 5255.3	Hatatsuura Ko, W. breakwater.	33° 22.3' N 129° 52.1' E	Iso.R. period 4s	39 12	12	Red round concrete tower; 31.	
12144 M 5255.4	Takakushi Ko Hontei, breakwater.	33° 25.1' N 129° 49.5' E	Fl.G. period 3s	26 8	5	White round concrete tower; 28.	
12148 M 5255.7	-W. breakwater.	33° 25.1' N 129° 49.5' E	Fl.R. period 3s	43 13	9		
12152 M 5255.5	-Takakushi Ko, S. breakwater.	33° 25.0' N 129° 50.0' E	Iso.R. period 6s	39 12	11	Red cylindrical fiberglass structure; 32.	
12154 M 5255.35	Imari Hira Se.	33° 24.0' N 129° 51.0' E	Fl.R. period 4s	26 8	3	Red tower; 18.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-KYUSHU							
12156 <i>M 5254.9</i>	Miya Zaki.	33° 27.1' N 129° 47.0' E	Fl.W. period 4s	36 11	3	White round concrete structure on quadrangular concrete base; 28.	
12157 <i>M 5254.91</i>	-Ake Se.	33° 28.6' N 129° 46.9' E	Fl.(2)W. period 5s	46 14	5	ISOLATED DANGER BRB, beacon, topmark; 16.	
12160 <i>M 5256</i>	Muku Sima.	33° 29.2' N 129° 46.7' E	Fl.W. period 4s	263 80	20	White round concrete tower; 39.	
12168 <i>M 5257</i>	Hizen Madara Shima.	33° 33.9' N 129° 45.8' E	Iso.W. period 6s	98 30	5	White round concrete structure; 32.	
12172 <i>M 5257.1</i>	-Ko, S. breakwater, head.	33° 33.9' N 129° 45.9' E	Iso.G. period 4s	42 13	4	White tower; 30.	
12176 <i>M 5257.4</i>	Chika Saki.	33° 31.1' N 129° 49.7' E	Iso.W. period 10s	85 26	13	White round concrete tower; 31.	
12180 <i>M 5268</i>	Hado Saki.	33° 33.1' N 129° 51.0' E	Fl.W. period 5s	69 21	14	White round concrete tower; 43.	
12184 <i>M 5265.6</i>	Kakara Shima, breakwater.	33° 35.0' N 129° 51.8' E	Iso.G. period 4s	31 9	6	White round concrete structure; 19.	
12188 <i>M 5265.65</i>	-Kakara Shima.	33° 33.8' N 129° 53.9' E	F.W.	197 60		White square concrete structure; 20.	Illuminates beacon on Hutame Se 650 meters SE. from light.
12192 <i>M 5265.4</i>	Ogawashima Ko, W. breakwater.	33° 35.0' N 129° 54.0' E	F.Fl.G. period 5s	36 11	F. 5 Fl 11	White round concrete structure; 28.	
12193.5 <i>M 5266.45</i>	Entrance breakwater, E. side.	33° 33.0' N 129° 52.0' E	Fl.R. period 3s	43 13	6		
12194 <i>M 5266.5</i>	Yobuko Ko, Ko Sima, breakwater.	33° 32.6' N 129° 52.2' E	Fl.G. period 3s	30 9	6		
12196 <i>M 5267</i>	-Nagoya, breakwater.	33° 32.1' N 129° 52.8' E	F.Fl.R. period 5s	36 11	F. 6 Fl 11	Red tower; 28.	
12204 <i>M 5266.4</i>	-E. side, S. breakwater, head.	33° 33.0' N 129° 54.0' E	F.Fl.G. period 3s	33 10	F. 5 Fl 11	White round concrete structure; 28.	
12208 <i>M 5266.3</i>	--Detached breakwater, E. head.	33° 33.2' N 129° 53.7' E	Fl.R. period 3s	33 10	6	Red tower; 28.	
12212 <i>M 5266.35</i>	--N. breakwater.	33° 33.0' N 129° 54.0' E	Iso.R. period 4s	36 11	11	Red round concrete structure, quadrangular concrete base; 31.	
12216 <i>M 5265.8</i>	Hizen Tateishi Saki.	33° 34.0' N 129° 52.9' E	Iso.W. period 6s	102 31	5	White round concrete structure; 33.	
12220 <i>M 5265</i>	Hira Se.	33° 34.9' N 129° 54.6' E	Iso.W. period 10s	36 11	5	White round concrete tower; 25.	
12224 <i>M 5266.2</i>	Usu Shima.	33° 33.7' N 129° 53.9' E	Fl.W. period 3s	42 13	12	White tower; 31.	
12226	Kabe Shima.	33° 33.2' N 129° 53.7' E	Fl.R. period 4s	33 10	3		
12228 <i>M 5266</i>	Taka Shima.	33° 33.4' N 129° 54.4' E	Fl.(3)W. period 13s	180 55	17	White round concrete structure; 36.	
12232 <i>M 5269.02</i>	Kashiwa Jima, Ko Miya Saki	33° 32.1' N 129° 58.0' E	Oc.W. period 4s	42 13	12	White round concrete tower; 39.	
12236 <i>M 5269.04</i>	-Breakwater.	33° 32.2' N 129° 58.0' E	Iso.R. period 6s	36 11	4	Red round concrete structure; 28.	Visible 204° -109°.
12240 <i>M 5269</i>	Mese Hana.	33° 31.7' N 129° 57.4' E	Fl.W. period 3s	118 36	3	White round concrete tower; 29.	
12244 <i>M 5269.06</i>	Minatohama Ko.	33° 31.0' N 129° 58.0' E	F.Fl.R. period 5s	43 13	F. 6 Fl 12	Red round concrete tower; 28.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-KYUSHU							
12248 <i>M 5269.24</i>	Karatsu Ko, breakwater, W. head.	33° 29.1' N 129° 57.5' E	Fl.(2)G. period 6s	36 11	11	White round concrete structure on quadrangular concrete base; 32.	
12252 <i>M 5269.22</i>	-E. head.	33° 28.9' N 129° 57.8' E	Fl.R. period 7s	36 11	11	Red structure; 32.	
12254 <i>M 5269.3</i>	-W. harbor, breakwater, head.	33° 28.6' N 129° 57.5' E	Fl.G. period 3s	27 8	5	White concrete tower; 22.	
12256 <i>M 5269.2</i>	Karatsu.	33° 28.8' N 129° 57.9' E	Iso.W. period 6s	180 55	17	White round concrete tower; 25.	
12260 <i>M 5269.5</i>	Tobo Ko, No. 2 breakwater.	33° 28.7' N 129° 56.5' E	F.Fl.R. period 6s	32 10	F. 6 Fl 11	Red tower; 28.	
12262 <i>M 5269.55</i>	-E. breakwater.	33° 28.7' N 129° 56.7' E	Iso.R. period 4s	31 9	7	Red tower; 21.	
12264 <i>M 5269.7</i>	-E. Harbor, W. breakwater.	33° 28.0' N 129° 59.0' E	Iso.R. period 6s	36 11	11	Red round concrete structure; 31.	
12268 <i>M 5269.62</i>	--E. breakwater.	33° 27.9' N 129° 58.6' E	Fl.(2)G. period 8s	36 11	8	White round concrete structure, quadrangular concrete base.	
12272 <i>M 5269.6</i>	-Taka Shima, W. breakwater.	33° 28.3' N 129° 59.2' E	Fl.G. period 4s	39 12	5	White round concrete tower; 31.	
12276 <i>M 5262</i>	Eboshi Jima.	33° 41.0' N 129° 59.0' E	Fl.W. period 15s	184 56	20	White round concrete structure; 52.	
12280 <i>M 5269.8</i>	Iso Saki, breakwater.	33° 30.3' N 130° 05.4' E	Fl.R. period 5s	43 13	12	Red tower; 31.	
12283 <i>M 5269.95</i>	Hime Shima, breakwater, head.	33° 34.0' N 130° 03.2' E	Fl.R. period 3s	30 9	3	Red tower; 16.	
12284 <i>M 5269.96</i>	Tikuzen No Se.	33° 33.9' N 130° 05.4' E	Mo.(A)G. period 8s	49 15	5	PORT (B) G, beacon, topmark; 46.	
12286 <i>M 5270.15</i>	Keya Ko.	33° 35.1' N 130° 06.5' E	Iso.G. period 6s	30 9	6	White tower; 18.	
12288 <i>M 5269.94</i>	Kishi Ko, breakwater, head.	33° 34.0' N 130° 07.0' E	F.Fl.G. period 3s	36 11	F. 5 Fl 11	White round concrete structure, quadrangular concrete base; 28.	
12292 <i>M 5269.92</i>	Tikuzen Hunakosi Ko, W. breakwater.	33° 33.1' N 130° 07.7' E	Fl.(2)G. period 6s	39 12	6	White round concrete structure; 31.	
12296 <i>M 5269.9</i>	Kamuri Ko, W. breakwater.	33° 32.8' N 130° 09.7' E	F.Fl.(2)R. period 6s	36 11	F. 6 Fl 11	Red tower; 31.	
12300 <i>M 5270.2</i>	Nogita Ko, W. breakwater.	33° 36.7' N 130° 09.7' E	F.Fl.(2)G. period 8s	36 11	F. 5 Fl 11	White round concrete structure; 26.	
12304 <i>M 5270</i>	Todai Se.	33° 39.2' N 130° 07.4' E	Fl.(2)W. period 5s	43 13	9	ISOLATED DANGER BRB, beacon, topmark; 39.	
12308 <i>M 5270.4</i>	Nagama Syo.	33° 42.1' N 130° 09.0' E	Q.W.	43 13	5	N. CARDINAL BY, beacon, topmark; 39.	
12312 <i>M 5270.3</i>	Nishinoura, breakwater, head.	33° 39.1' N 130° 12.3' E	Fl.G. period 3s	53 16	3	White round concrete tower; 31.	
12316 <i>M 5271</i>	Nishima Misaki.	33° 40.0' N 130° 13.0' E	Fl.W. period 6s	256 78	20	White round concrete structure; 30.	
12320 <i>M 5272</i>	Genkai Jima.	33° 41.0' N 130° 14.0' E	Fl.W. period 15s	259 79	23	White round concrete tower; 36. Visible 121° -318° .	
12324 <i>M 5272.4</i>	-Breakwater.	33° 40.9' N 130° 14.1' E	Fl.(2)R. period 7s	39 12	7	White round concrete structure; 28.	
12328 <i>M 5270.6</i>	Kurinokami Sho.	33° 48.1' N 130° 15.9' E	Fl.(2)W. period 5s	56 17	5	ISOLATED DANGER BRB, beacon, topmark; 56.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-KYUSHU							
12332 <i>M 5284.4</i>	Aino Shima.	33° 45.5' N 130° 21.8' E	Iso.W. period 8s	285 87	20	White round concrete structure on quadrangular concrete base; 33.	
12336 <i>M 5284</i>	Tikuzen Aino Shima Ko, S. breakwater, head.	33° 45.2' N 130° 22.1' E	Fl.G. period 3s	36 11	6	White round concrete structure; 31.	
12338 <i>M 5274.5</i>	Hiro Ko.	33° 40.1' N 130° 17.4' E	Fl.G. period 3s	31 9	3	White tower; 16.	
12340 <i>M 5273</i>	Karatomari Ko, No. 1 breakwater.	33° 38.4' N 130° 13.9' E	Fl.R. period 3s	33 10	3	Red round tower on quadrangular base; 22.	
12344 <i>M 5276</i>	Nokono Shima.	33° 38.3' N 130° 18.2' E	Iso.W. period 6s	102 31	12	White square concrete tower; 39.	
12346 <i>M 5275.2</i>	Shike Shima Ko, breakwater.	33° 39.5' N 130° 18.7' E	Fl.R. period 3s	27 8	6	Red tower; 19.	
12348 <i>M 5275</i>	-W. breakwater.	33° 39.6' N 130° 18.8' E	Iso.G. period 6s	36 11	11	White round tower on quadrangular base; 28.	
12352 <i>M 5275.4</i>	Sika Shima, N. breakwater.	33° 39.7' N 130° 19.2' E	F.Fl.R. period 3s	33 10	F. 6 Fl 11	Red round concrete structure, quadrangular base; 28.	Breakwater extends NW. to shore.
12356 <i>M 5279</i>	Ha Shima.	33° 38.6' N 130° 20.2' E	Fl.W. period 3s	36 11	11	White round concrete structure; 31.	
HAKATA KO:							
12360 <i>M 5282</i>	-W. detached breakwater, N. head.	33° 36.9' N 130° 23.1' E	Iso.R. period 6s	56 17	13	Red tower; 61.	Several lights shown from piers in the harbor.
12364 <i>M 5282.5</i>	-W. breakwater.	33° 36.4' N 130° 22.7' E	Fl.G. period 4s	27 8	9	White quadrangular concrete tower; 25.	
12368 <i>M 5282.4</i>	-S. breakwater.	33° 36.4' N 130° 22.7' E	F.Fl.R. period 4s	36 11	F. 6 Fl 10	Red round concrete structure; 31.	
12372 <i>M 5280</i>	-E. breakwater.	33° 37.2' N 130° 23.2' E	Iso.G. period 6s	39 12	11	White concrete tower; 33.	
12382	-Aratu Ohasi.	33° 36.0' N 130° 23.0' E	Iso.W. period 4s	135 41	11		Marks center of span.
12384	--E. side.	33° 36.0' N 130° 23.1' E	Iso.G. period 4s	135 41	8		
12388	--W. side.	33° 36.0' N 130° 23.0' E	Iso.R. period 4s	132 40	8		
12390 <i>M 5283</i>	Nata Ko.	33° 41.7' N 130° 24.2' E	Fl.G. period 3s	36 11	3	White tower; 16.	
12392 <i>M 5288</i>	O Shima.	33° 54.0' N 130° 25.0' E	Fl.(2)W. period 20s 2 fl. 5s, ec. 15s	167 51	19	White square concrete tower; 36.	Visible 033° -249° .
12396 <i>M 5289</i>	-E. breakwater.	33° 53.6' N 130° 26.5' E	Fl.R. period 3s	36 11	11	Red tower; 29.	
12400 <i>M 5289.2</i>	-S. breakwater.	33° 53.7' N 130° 26.2' E	Iso.R. period 6s	23 7	7	Red tower; 19.	
12404 <i>M 5289.8</i>	Kurara Se.	33° 55.0' N 130° 28.8' E	Fl.W. period 3s	92 28	12	White round concrete tower; 32.	
12408 <i>M 5291</i>	Kanesaki Ko.	33° 52.9' N 130° 31.6' E	Fl.(2)G. period 6s	40 12	7	White tower; 31.	
12412 <i>M 5290</i>	Ku Zaki, breakwater, head.	33° 51.3' N 130° 29.0' E	Fl.R. period 4s	36 11	7	Red tower; 28.	
12416 <i>M 5285</i>	Tsuyazaki Hana.	33° 47.2' N 130° 27.0' E	Fl.W. period 4s	213 65	12	White round concrete tower; 29.	F.W. light illuminates reef southward.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-KYUSHU							
12420 <i>M 5286</i>	-Breakwater.	33° 46.9' N 130° 27.5' E	F.Fl.R. period 6s	39 12	F. 6 Fl 14	Red tower; 31.	
12424 <i>M 5291.4</i>	Hatsu Saki, breakwater, head.	33° 53.2' N 130° 34.1' E	Fl.R. period 3s	46 14	5	Red tower; 31.	
JAPAN-KYUSHU-OUTLYING ISLANDS							
12428 <i>M 5291.5</i>	Ashiya, AVIATION LIGHT.	33° 53.0' N 130° 40.0' E	Al.Fl.W.G. period 5s	203 62		Metal framework tower; 103.	
12430	-Outer breakwater, W. head.	33° 53.7' N 130° 39.1' E	Fl.G. period 3s	43 13	8	White tower; 31.	
12432 <i>M 5291.6</i>	Kashiwabarū Ko, W. breakwater.	33° 54.6' N 130° 39.6' E	Fl.(2).R. period 6s	39 12	3	Red tower; 31.	
12436 <i>M 5292</i>	Myoken Saki.	33° 56.0' N 130° 41.1' E	Oc.(2)W. period 12s lt. 3s, ec. 2s lt. 3s, ec. 4s	85 26	15	White round concrete tower; 33.	
12438 <i>M 5293</i>	Yawata Saki.	33° 56.0' N 130° 43.8' E	Fl.R. period 4s	43 13	5	Red tower; 26.	
12439 <i>M 5295</i>	-Breakwater, W. head.	33° 57.2' N 130° 46.5' E	Fl.(2)G. period 6s	43 13	7	White tower; 31.	
12439.5 <i>M 5295.5</i>	--E. head.	33° 57.4' N 130° 46.2' E	Fl.(2)R. period 6s	43 13	5	Red tower; 31.	
12440 <i>M 5076</i>	Okino Shima.	34° 14.5' N 130° 06.4' E	Al.Fl.W.R. period 30s	807 246	17	White square concrete tower; 52.	
12446 <i>M 5078</i>	Okino Sima, S. approach.	34° 14.2' N 130° 06.3' E	Fl.G. period 3s	42 13	3	White tower; 21.	
12447 <i>M 5078.1</i>	Okimosima.	34° 14.1' N 130° 06.3' E	Fl.R. period 4s	33 10	6	Red tower; 12.	
12452 <i>M 5263</i>	Oro Shima, W. breakwater.	33° 51.0' N 130° 02.0' E	Fl.G. period 4s	46 14	12	White round concrete tower; 36.	
12456 <i>M 5070</i>	Kamiagata.	34° 33.9' N 129° 17.3' E	Oc.(3)W. period 16s	443 135	14	White round concrete structure; 33.	
12460 <i>M 5070.2</i>	Ina ko, W. breakwater.	34° 33.2' N 129° 19.0' E	F.Fl.G. period 3s	36 11	F. 5 Fl 11	White round concrete structure; 31.	
12462 <i>M 5070.3</i>	-Breakwater, head.	34° 33.7' N 129° 18.4' E	Iso.R. period 6s	33 10	7	Red tower; 19.	
12464	Nita Wan, S. approach.	34° 31.2' N 129° 18.7' E	F.W.	308 94		White concrete structure; 33.	
12468 <i>M 5070.5</i>	Tsuyanagi.	34° 30.7' N 129° 18.1' E	Fl.R. period 4s	43 13	4	Red concrete structure; 33.	
12472 <i>M 5069.4</i>	So Saki.	34° 38.6' N 129° 19.4' E	Fl.W. period 5s	276 84	23	Round concrete tower, red and white bands; 36.	Visible 020° 30' -252° 30' .
12476 <i>M 5069</i>	-Sasuna Ko, entrance.	34° 38.6' N 129° 23.1' E	F.Fl.W. period 6s	36 11	F. 8 Fl 11	White round concrete tower; 31.	
12477 <i>M 5069.2</i>	Nisituya Ko.	34° 39.9' N 129° 24.3' E	Fl.G. period 3s	27 8	5	White tower; 18.	
12478	-Wani Ura RAMARK	34° 41.1' N 129° 25.6' E					
12480 <i>M 5068.4</i>	-Waniura Ko, N. breakwater, head.	34° 42.0' N 129° 26.0' E	Iso.R. period 6s	39 12	11	Red round concrete structure; 31.	
12484 <i>M 5068</i>	-Mitsu Shima, island, off N. head.	34° 43.2' N 129° 26.8' E	Fl.W. period 15s	76 23	14	White round concrete tower, square base; 46.	Visible 051° -314° .

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-KYUSHU-OUTLYING ISLANDS							
12488 <i>M 5067</i>	Oki-No-Siine Shima.	34° 42.0' N 129° 28.0' E	Fl.W. period 4s	69 21	12	White round concrete tower; 33.	
12490 <i>M 5066</i>	Hitakatu Ko.	34° 40.5' N 129° 28.6' E	Oc.R. period 8s	23 7	7		
12492 <i>M 5065</i>	Shitasaki.	34° 41.0' N 129° 29.6' E	Iso.W. period 6s	75 23	5	White round concrete tower; 31.	F. illuminates reef 340 meters ENE.
12496	-Jodo Zaki.	34° 39.0' N 129° 30.0' E	Fl.W. period 3s	85 26	15	White round concrete structure; 30.	
12500 <i>M 5062</i>	Ikatsuti Saki.	34° 39.1' N 129° 28.8' E	Fl.R. period 3s	36 11	3	Red round concrete structure on quadrangular base; 31.	
12504 <i>M 5060</i>	Nishitomari Wan , range, front.	34° 39.0' N 129° 28.0' E	F.Y.	194 59	16	White round concrete tower, triangular topmark; 39.	
12508 <i>M 5060.1</i>	-Rear, about 113 meters 298° 30' from front.	34° 39.4' N 129° 28.2' E	F.Y.	220 67	16	White round concrete tower, triangular topmark; 20.	
12510 <i>M 5057.9</i>	Tozyusi Ko, breakwater.	34° 36.8' N 129° 28.9' E	Fl.G. period 3s	30 9	5	White tower; 22.	
12512 <i>M 5057</i>	-Kin Wan.	34° 32.9' N 129° 28.2' E	Fl.W. period 10s	251 76	22	White quadrangular concrete tower; 25.	Visible 195° 30' -021° 20' .
12516 <i>M 5057.4</i>	--W. breakwater, head.	34° 32.9' N 129° 27.7' E	Oc.G. period 4s	39 12	11	White round concrete structure; 31.	
12520 <i>M 5056.9</i>	-Tusima Hitoe Ko.	34° 31.8' N 129° 27.2' E	Fl.G. period 3s	39 12	6	White tower; 28.	
12524 <i>M 5056.8</i>	-Hitoe Wan, E. breakwater	34° 32.0' N 129° 27.0' E	Iso.R. period 6s	32 10	11	Red round concrete tower; 28.	
12528 <i>M 5056.6</i>	-Saga Ko, E. breakwater.	34° 26.9' N 129° 22.6' E	F.Fl.R. period 3s	46 14	F. 6 Fl 11	Red round tower on quadrangular base; 32.	
12532 <i>M 5056.4</i>	-Nagasaki Hana.	34° 24.5' N 129° 23.9' E	Fl.W. period 4s	158 48	19	White round concrete tower; 33.	F.W. light illuminates reef NE. of light.
12536 <i>M 5056</i>	-Yokoura Wan.	34° 24.1' N 129° 22.6' E	F.Fl.R. period 4s	42 13	F. 6 Fl 12	Red round concrete tower; 31.	
12540 <i>M 5052.5</i>	Orise Hana.	34° 17.9' N 129° 23.6' E	Iso.W. period 8s	377 115	13	White round concrete tower; 28.	
12544 <i>M 5052</i>	-Kuro Shima.	34° 19.0' N 129° 24.7' E	Fl.W. period 5s	472 144	7	White round concrete tower; 43.	
12548 <i>M 5053</i>	-Manzeki-no-Seto, E. entrance.	34° 18.0' N 129° 21.4' E	Oc.G. period 4s	19 6	4	White round concrete tower; 19.	Visible 158° -052° .
12552 <i>M 5054</i>	--W. entrance.	34° 17.7' N 129° 21.2' E	Oc.G. period 4s	23 7	4	White round concrete tower; 19.	Visible 280° -158° .
12556 <i>M 5051</i>	-Ohunakosi Ko, S. breakwater, head.	34° 16.4' N 129° 21.3' E	Fl.G. period 3s	36 11	6	White round concrete structure; 29.	
12558 <i>M 5051.5</i>	-E. breakwater, head.	34° 16.3' N 129° 21.4' E	Fl.(2)G. period 6s	36 11	8		
12562 <i>M 5050.5</i>	-Breakwater.	34° 12.8' N 129° 18.0' E	Oc.G. period 8s	33 10	6		
12564 <i>M 5047</i>	Yara Zaki.	34° 11.7' N 129° 17.9' E	Oc.W. period 8s	148 45	13	White quadrangular concrete tower; 22.	
12568 <i>M 5048.5</i>	-Izuhara Ko, E. breakwater.	34° 11.7' N 129° 17.5' E	Fl.R. period 3s	43 13	3	Red tower; 30.	Y. lights 388 meters S., 597 meters SW.
12580 <i>M 5042</i>	-Kosaki.	34° 05.0' N 129° 12.8' E	Fl.(2)W. period 6s	200 61	12	White octagonal concrete tower; 36.	Visible 261° -114° .
12582 <i>M 5040</i>	-Tuto Ko, breakwater.	34° 06.2' N 129° 12.8' E	Iso.G. period 6s	46 14	12	White tower; 35.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-KYUSHU-OUTLYING ISLANDS							
12584 M 5039	-Tsutsu Ko, S. breakwater.	34° 07.0' N 129° 11.0' E	F.F.I.G. period 3s	39 12	F. 5 Fl 11	White round concrete structure.	
12588 M 5038	-Tutu Saki.	34° 06.1' N 129° 10.2' E	Fl.W. period 10s	348 106	26	White round tower; 64.	
12590 M 5074.6	--Northward.	34° 10.0' N 129° 10.7' E	Fl.G. period 3s	46 14	8	White tower; 29.	
12596 M 5074	-Komoda Ko, W. Training Wall.	34° 14.0' N 129° 11.0' E	F.F.I.R. period 6s	43 13	F. 8 Fl 12	Red round concrete tower; 33.	
12600 M 5071	-Mine Ko Sin Saki.	34° 26.7' N 129° 17.1' E	Fl.W. period 3s	39 12	11	White round concrete structure on quadrangular concrete base; 33.	
12604 M 5073	Aso Wan Mizus-aki Zyoko.	34° 20.9' N 129° 16.1' E	F.F.I.G. period 6s	39 12	F. 5 Fl 11	White tower; 31.	
12608 M 5072	Gosaki.	34° 19.9' N 129° 12.3' E	Iso.W. period 6s	89 27	12	White round concrete tower; 27.	
12612 M 5073.2	Imo Saki.	34° 19.7' N 129° 16.0' E	Fl.W. period 3s	43 13	8	White round concrete tower; 33.	
12614 M 5073.3	Nii Byoti.	34° 21.2' N 129° 18.1' E	Fl.(2)W. period 5s	26 8	9	ISOLATED DANGER BRB, beacon, topmark.	
12616 M 5073.4	Mezumi Shima.	34° 19.0' N 129° 18.0' E	Fl.W. period 4s	46 14	9	White round concrete tower; 43.	
12620 M 5073.7	Kuromi Saki.	34° 17.8' N 129° 19.5' E	Fl.W. period 5s	95 29	12	White round concrete structure; 39.	
12622 M 5073.6	-NW. of Takesiki Byoti.	34° 16.9' N 129° 18.9' E	Iso.G. period 6s	23 7	6	White tower; 18.	
12624 M 5259	Naga Shima.	33° 43.0' N 129° 38.0' E	Fl.W. period 4s	161 49	19	White quadrangular concrete tower; 26.	
12628 M 5259.2	Oshima Ko, E. breakwater.	33° 44.0' N 129° 38.6' E	Iso.R. period 6s	39 12	11	Red round concrete tower; 31.	
12630 M 5259.32	Hunori Se.	33° 44.7' N 129° 38.5' E	Fl.R. period 4s	42 13	9	STARBOARD (B) R, beacon, topmark.	
12632 M 5259.34	Iki U Se.	33° 45.2' N 129° 38.7' E	Fl.(2)W. period 6s	46 14	7	White round concrete structure; 28.	
12636 M 5259.38	Tenaga Shima.	33° 50.0' N 129° 39.4' E	Fl.W. period 3s	72 22	5	White round concrete tower; 30.	
12638 M 5259.45	Katamoto Ko, breakwater, S. head.	33° 51.3' N 129° 40.9' E	Fl.G. period 3s	49 15	8	White tower; 36.	
12640 M 5260	Wakamiya Shima.	33° 52.0' N 129° 41.0' E	Oc.W. period 8s	348 106	25	White octagonal stone tower; 32.	Visible 027° -289°. Radiobeacon. DGPS Station.
12641 M 5260.2	-Approach beacon.	33° 52.4' N 129° 41.5' E	Q.W.	23 7	3	N. CARDINAL BY, topmark.	
12644 M 5259.6	Katsumoto Ko Range No. 1, front.	33° 51.6' N 129° 41.6' E	F.Y.	62 19	13	Round concrete structure, white triangular topmark; 36.	
12648 M 5259.61	-No. 1 rear, 60 meters 198° from front.	33° 51.6' N 129° 41.6' E	F.Y.	79 24	14	Round concrete structure, white triangular topmark; 31.	
12660 M 5259.4	Katsumoto Ko, W. breakwater, head.	33° 51.0' N 129° 42.0' E	Fl.R. period 3s	39 12	3	Red round concrete structure; 28.	
12664 M 5260.4	Uoturi Saki.	33° 50.4' N 129° 46.4' E	Fl.W. period 4s	190 58	20	White round tower on quadrangular base; 28.	
12668 M 5261	Ashibe Ko.	33° 48.0' N 129° 45.9' E	Oc.W. period 8s	138 42	18	White tower; 29.	
12670 M 5260.8	-Breakwater.	33° 49.0' N 129° 45.8' E	Fl.R. period 3s	43 13	3		F.W. light on same structure.

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JAPAN-KYUSHU-OUTLYING ISLANDS							
12672 M 5261.4	-S. breakwater, head.	33° 48.2' N 129° 45.8' E	Iso.G. period 4s	43 13	12	White round concrete structure; 31.	
12676 M 5261.3	-Outer breakwater.	33° 48.2' N 129° 46.1' E	Fl.R. period 4s	52 16	12	Red tower; 36.	
12680 M 5261.2	-N. breakwater, head.	33° 48.3' N 129° 45.7' E	Iso.R. period 4s	43 13	12	Red round concrete structure; 31.	
12684 M 5261.45	Kanashiro Iwa.	33° 46.0' N 129° 48.9' E	Fl.W. period 3s	72 22	3	White tower; 32.	
12688 M 5259.3	Gonovra Ko, N. breakwater, head.	33° 44.0' N 129° 41.0' E	F.Fl.G. period 3s	46 14	F. 5 Fl 12	White round concrete structure; 31.	
12689 M 5259.27	-Breakwater, head.	33° 44.2' N 129° 40.8' E	Fl.R. period 3s	43 13	11		
12689.1 M 5259.29	-NW. breakwater.	33° 44.9' N 129° 40.2' E	Iso.G. period 6s	31 9	6	White tower; 19.	
12690 M 5261.72	Kuki Ko, breakwater.	33° 44.0' N 129° 44.3' E	Fl.R. period 3s	33 10	6	Red concrete structure; 22.	
12692 M 5261.5	Oto Shima.	33° 44.5' N 129° 47.3' E	Iso.W. period 8s	46 14	5	White round concrete tower; 21.	
12696 M 5261.7	Indoji Ura, W. breakwater.	33° 44.2' N 129° 45.4' E	F.Fl.G. period 5s	36 11	F. 5 Fl 11	White round concrete tower; 28.	
12697	-Inner breakwater.	33° 44.0' N 129° 45.4' E	Fl.G. period 3s	46 14	8	White tower; 28.	
12698 M 5261.8	Go Se, approach to Gonoura Ko.	33° 42.5' N 129° 41.6' E	Fl.W. period 3s	36 11	3	White concrete tower; 25.	
12700 M 5261.74	Iruka Saki.	33° 42.3' N 129° 43.0' E	Fl.(2)W. period 6s	102 31	12	White round concrete tower; 33.	
12704 M 5258	Futagami Shima.	33° 36.1' N 129° 33.3' E	Al.Fl.W.G. period 20s	325 99	25	White octagonal concrete tower; 46.	
12708	Kakara Shima.	33° 37.0' N 129° 52.0' E	Fl.W. period 3s	233 71	22	White square concrete structure; 36.	
12712 M 5261.9	Na Shima.	33° 43.9' N 129° 51.6' E	Fl.W. period 5s	105 32	12	White round concrete structure; 46.	
12716 M 5017.8	Tsushimase Hana.	33° 18.1' N 129° 07.5' E	Fl.W. period 3s	95 29	12	White round concrete structure; 39.	A F.W. light illuminates a beacon on Tsushima SE. about 380 meters NNE.
GOTO RETTO:							
12720 M 5018	-Koshiki Jima.	33° 18.2' N 129° 10.2' E	Fl.W. period 3s	230 70	5	White round structure; 43.	
12724 M 5016	-Kuromo Se.	33° 14.5' N 129° 11.1' E	Fl.W. period 3s	69 21	7	White tower; 27.	
12728 M 5025	-Tsuwa Zaki.	33° 09.6' N 129° 06.8' E	Fl.W. period 3s	391 119	5	White round concrete structure quadrangular concrete base; 30.	
12729 M 5025.5	-Kuro Se.	33° 09.0' N 129° 00.5' E	Fl.W. period 5s	36 11	9	White concrete tower; 25.	
12730 M 5021	-Ozika Ko, breakwater.	33° 10.6' N 129° 03.2' E	Fl.G. period 4s	49 15	11	White concrete structure; 31.	
12732 M 5022	-Ojika Shima, Fuefuki Ko.	33° 10.7' N 129° 03.9' E	Iso.G. period 6s	46 14	12	White round concrete structure; 30.	
12736 M 5024	--S. breakwater.	33° 10.8' N 129° 03.9' E	Fl.R. period 3s	33 10	6	Red round concrete tower; 22.	

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JAPAN-KYUSHU-OUTLYING ISLANDS							
12740 M 5016.4	-Ai Se.	33° 14.1' N 129° 05.6' E	Fl.W. period 5s	49 15	3	White round concrete structure; 31.	
12744 M 5017.7	-Nagasaki Hana.	33° 16.4' N 129° 09.5' E	Oc.W. period 4s	33 10	5	White tower; 25.	
12748 M 5017.4	-Taira, breakwater.	33° 15.5' N 129° 07.9' E	Fl.R. period 3s	39 12	4	Red round concrete structure; 33.	
12750 M 5017.5	--Detached breakwater, SW. head.	33° 15.3' N 129° 08.0' E	Fl.(2)R. period 6s	50 15	5	Red tower; 31.	
12756 M 5017.2	-S. breakwater, head.	33° 15.1' N 129° 05.5' E	Fl.R. period 3s	36 11	3	Red round concrete structure; 28.	
12760 M 5020	-Madara Shiam, NW. extremity of island.	33° 13.0' N 129° 01.0' E	Oc.(2)W. period 12s lt. 3s, ec. 2s lt. 3s, ec. 4s	62 19	13	White round concrete tower; 32.	
12764 M 5026	-Shiro Se.	33° 10.8' N 128° 48.3' E	Fl.W.R. period 4s	125 38	W. 17 R. 16	White square concrete tower; 26.	R. 041°-063°, W.-251°, R.- 264°, W.-041°.
12768 M 5015.3	-Maruo, breakwater, head.	33° 00.2' N 129° 05.7' E	Iso.R. period 6s	43 13	4	Red round concrete tower; 30.	
12772 M 5015	-Mamako Se.	32° 59.9' N 129° 06.6' E	Fl.W. period 3s	56 17	12	White round concrete tower; 29.	
12774 M 5014.5	-Arikawa Wan, breakwater, head.	32° 59.3' N 129° 06.4' E	Fl.G. period 3s	32 10	3	White tower; 16.	
12776 M 5014	-Hirakushi Saki.	32° 59.4' N 129° 06.9' E	Iso.W. period 6s	115 35	4	White quadrangular concrete tower; 28.	
12780 M 5013	-Hira Shima.	33° 00.0' N 129° 13.3' E	Fl.W. period 3s	177 54	5	White tower; 62.	
12784 M 5013.4	-Hira Shima Ko, breakwater, head.	32° 59.9' N 129° 14.0' E	Fl.R. period 3s	56 17	6	Red tower; 31.	
12786 M 5012.8	Sakiura Ko.	32° 59.6' N 129° 11.0' E	Fl.G. period 3s	36 11	5	White tower; 18.	
12788 M 5011.4	-Ota, breakwater.	32° 57.1' N 129° 09.2' E	Iso.G. period 4s	46 14	12	White round concrete structure, 31.	
12792 M 5011	-Aino Shima.	32° 56.1' N 129° 11.3' E	Fl.W. period 5s	82 25	12	White round concrete structure; 79.	
12796 M 5012	-Kanko Shima.	32° 56.1' N 129° 06.9' E	Fl.W. period 4s	52 16	5	White round concrete tower; 18.	
12800 M 5012.4	-Ayetsu, breakwater.	32° 56.9' N 129° 06.7' E	Iso.R. period 6s	39 12	7	Red tower; 31.	
12802 M 5011.5	-Arikawa Konoura Ko.	32° 55.3' N 129° 05.3' E	Fl.R. period 6s	27 8	6	Red tower; 18.	
12804 M 5010.6	-Hamakusi Ko, S. breakwater.	32° 53.6' N 129° 05.4' E	Fl.R. period 3s	56 17	5	White round tower; 28.	
12806 M 5010.5	-Narao Ko, breakwater.	32° 52.7' N 129° 05.5' E	Oc.R. period 8s	49 15	12		
12808 M 5026.6	-Tuboga Se.	33° 04.3' N 129° 04.0' E	Fl.(2)W. period 5s	56 17	12	ISOLATED DANGER BRB, beacon, topmark; 46.	
12812 M 5027	-Yagatameno Hana.	33° 02.7' N 129° 04.1' E	Fl.W. period 3s	131 40	5	White round concrete structure; 36.	
12816 M 5027.4	-Aokata Ko, Itino Se.	32° 59.3' N 129° 02.5' E	Mo.(A)G. period 8s	46 14	5	PORT (B) G, beacon, topmark; 36.	
12818	-Breakwater, S. head.	32° 58.7' N 129° 03.1' E	Fl.G. period 3s	29 9	5	White tower; 18.	
12820 M 5027.6	-Aokata Wan.	32° 59.0' N 129° 03.0' E	Iso.R. period 6s	39 12	11	Red round concrete tower on square base; 28.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-KYUSHU-OUTLYING ISLANDS							
12824 <i>M 5028</i>	-Kushi Jima.	32° 58.0' N 128° 59.0' E	Fl.W. period 4s	373 114	17	White round concrete tower, square base; 36.	
12828 <i>M 5028.4</i>	-Arifuku Jima.	32° 55.2' N 128° 55.8' E	Fl.W. period 3s	66 20	11	White round concrete structure; 33.	
12832 <i>M 5009</i>	-Sao Ko, No. 3 breakwater.	32° 49.4' N 129° 03.0' E	Iso.G. period 4s	46 14	12	White round concrete tower; 31.	
12836 <i>M 5009.6</i>	-Goto Sao Saki.	32° 48.6' N 129° 04.0' E	Fl.W. period 3s	73 22	14	White round concrete structure; 39.	
12844 <i>M 5010.2</i>	-Narao Ko, S. breakwater.	32° 50.4' N 129° 03.9' E	Fl.(2)G. period 6s	49 15	3	White tower; 33.	
12848 <i>M 5010.35</i>	Ko-narao.	32° 50.8' N 129° 03.7' E	Fl.R. period 3s	52 16	3	Red tower; 30.	
12852 <i>M 5010.3</i>	-Ko-narao Ko Minami, S. breakwater, head.	32° 50.8' N 129° 03.9' E	Fl.G. period 3s	52 16	3	White tower; 33.	
12856 <i>M 5008</i>	-Takanou Hana.	32° 45.0' N 129° 00.0' E	Iso.W. period 6s	72 22	14	White round concrete tower; 39.	
12860 <i>M 5010</i>	-Otona Se.	32° 49.0' N 129° 05.6' E	Fl.(2)W. period 5s	66 20	12	ISOLATED DANGER BRB, beacon, topmark; 52.	
12862 <i>M 5008.2</i>	Ban-dake.	32° 45.2' N 128° 58.2' E	Fl.G. period 3s	25 8	3	White tower; 16.	
12864 <i>M 5006</i>	-Fukue Ko, N. breakwater.	32° 42.0' N 128° 51.2' E	Fl.(2)R. period 6s	39 12	3	Red round concrete structure; 30.	
12868 <i>M 5006.4</i>	--S. breakwater, N. head.	32° 42.1' N 128° 51.4' E	Fl.(2)G. period 6s	46 14	6	White tower; 33.	
12876 <i>M 5005.7</i>	-Sakiyama Ko, N. breakwater, head.	32° 39.3' N 128° 53.4' E	Fl.R. period 3s	42 13	12	Red round concrete structure on quadrangular base; 28.	
12880 <i>M 5004</i>	-Tomie Ko, on Okinokuro Se.	32° 38.0' N 128° 47.0' E	Fl.W. period 5s	36 11	11	White round concrete tower; 28.	
12884 <i>M 5005</i>	--Breakwater, W. head.	32° 37.5' N 128° 46.3' E	Fl.G. period 3s	33 10	4	White tower; 20.	
12888 <i>M 5005.4</i>	--Ohama Ko, S. breakwater.	32° 38.7' N 128° 48.9' E	Fl.R. period 3s	39 12	3	Red round concrete tower; 31.	
12890 <i>M 5002.7</i>	-Hukue Sima, breakwater.	32° 35.1' N 128° 45.0' E	Fl.R. period 5s	46 14	3	Red tower; 16.	
12892 <i>M 5002.8</i>	-Kasayama Saki.	32° 34.0' N 128° 46.0' E	Iso.W. period 6s	62 19	13	White round concrete structure; 36.	F.W. auxiliary light illuminates white post on reefs 230 meters S.
12894 <i>M 5003.5</i>	Wakou Ko, S. breakwater, head.	32° 34.8' N 128° 46.7' E	Fl.(2)G. period 6s	43 13	5	White tower; 28.	
12896 <i>M 5002.6</i>	-Kurose Ko, S. breakwater, head.	32° 36.2' N 128° 44.2' E	Fl.R. period 3s	49 15	3	Red round concrete structure; 31.	
12900 <i>M 5002.4</i>	-Daiho Ko, S. breakwater.	32° 35.6' N 128° 39.5' E	Iso.G. period 6s	43 13	12	White round concrete tower; 33.	
12904 <i>M 5002</i>	-Ose Zoki.	32° 37.0' N 128° 36.0' E	Fl.W. period 10s	272 83	23	White round concrete structure; 52.	Visible 301° -175°. Signal station (by day). Radiobeacon, DGPS Station , 741 meters NE.
12908 <i>M 5034</i>	-Tamanoura Ko, groin.	32° 39.0' N 128° 37.0' E	F.Fl.R. period 5s	36 11	F. 6 Fl 11	Red round concrete tower; 28.	
12912 <i>M 5032</i>	-Tamanoura, Kuro Se.	32° 40.9' N 128° 38.0' E	Fl.W. period 3s	112 34	5	White round concrete tower on square base; 27.	
12916 <i>M 5033</i>	Tamanoura Ko.	32° 39.9' N 128° 40.0' E	Fl.W. period 3s	115 35	17	White round concrete structure; 28.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
JAPAN-KYUSHU-OUTLYING ISLANDS							
12920 <i>M 5033.5</i>	--Breakwater.	32° 40.0' N 128° 40.0' E	Fl.G. period 3s	112 34	12	White round concrete structure, square base; 31.	
12924 <i>M 5030</i>	-Kashiwa Zaki.	32° 47.1' N 128° 39.9' E	Fl.W. period 3s	79 24	5	White round concrete tower; 49.	
12928	Nagasaki Hana.	32° 46.0' N 128° 38.0' E	Iso.W., F.W. period 6s	72 22	14	White quadrangular concrete structure.	F.W. light illuminates surface 520 meters W.S.W.
12932 <i>M 5029.6</i>	-Miiraku Ko, E. breakwater.	32° 44.6' N 128° 42.1' E	F.Fl.R. period 3s	43 13	F. 6 Fl 12	Red round concrete structure on square concrete base; 31.	
12934 <i>M 5029.5</i>	Mizunoura Ko.	32° 44.9' N 128° 44.5' E	Fl.(2)G. period 6s	26 8	5	White concrete structure; 18.	
12936 <i>M 5029.4</i>	-Taketo Shima.	32° 45.7' N 128° 44.5' E	Fl.W. period 4s	125 38	17	White round concrete structure; 28.	
12940 <i>M 5029.2</i>	-Kishuku Ura Range, front.	32° 45.0' N 128° 46.0' E	F.G.	33 10	11	Round concrete structure white rectangular topmark; 26.	
12944 <i>M 5029.21</i>	--Rear, 55 meters 196° 06' from front.	32° 45.2' N 128° 45.9' E	F.G.	56 17	12	Round concrete structure, white rectangular daymark; 29.	
12948 <i>M 5029</i>	-Itokushi Bana.	32° 47.8' N 128° 48.5' E	Oc.(2)W. period 12s lt. 2s, ec. 2s lt. 6s, ec. 2s	351 107	12	White round concrete tower; 31.	
F.W.							
12952 <i>M 5008.4</i>	-Narushima Ko, Mae Shima, N. breakwater.	32° 48.3' N 128° 56.3' E	Iso.R. period 4s	42 13	12	Red round concrete tower; 31.	
12956 <i>M 5008.6</i>	-Kakarisaki Bana.	32° 49.0' N 128° 55.0' E	Fl.(2)G. period 6s	69 21	12	White round concrete structure; 31.	
F.W.						Same structure.	Illuminates rock 160 meters SSE.
12960 <i>M 5008.45</i>	-Nurosima Ko.	32° 48.8' N 128° 56.2' E	Fl.G. period 3s	39 12	11		
12968 <i>M 5007</i>	-Akahae Bana.	32° 45.0' N 128° 53.0' E	Fl.W. period 4s	49 15	12	White round concrete tower; 36.	
12970 <i>M 5006.55</i>	-Goto Nyudou Se.	32° 45.0' N 128° 50.0' E	Fl.G. period 3s	26 8	3	PORT (B) G, beacon, topmark; 18.	
12972 <i>M 5028.6</i>	-Kurose Hana.	32° 51.7' N 128° 52.3' E	Fl.W. period 5s	59 18	5	White round concrete tower; 30.	
12974 <i>M 5028.8</i>	Hisaka Sima.	32° 50.3' N 128° 50.7' E	Fl.R. period 5s	3 1	4	STARBOARD (B) R, beacon, topmark; 21.	
12976 <i>M 5003</i>	O Shima.	32° 33.8' N 128° 54.4' E	Fl.(2)W. period 20s	338 103	25	White square concrete structure; 43.	
12980 <i>M 4998</i>	Me Shima.	31° 59.3' N 128° 21.2' E	Fl.(3)W. period 40s 3 fl. 16s, ec. 24s	391 119	27	White octagonal concrete tower; 49.	Visible 215° -162°.
RAMARK							Azimuth coverage 046° - 342°.
12984 <i>M 4805</i>	Ie Shima.	31° 12.0' N 129° 29.0' E	Fl.W. period 3s	338 103	12	White round concrete structure; 31.	

Section 8

Ryukyu Islands and Taiwan

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RYUKYU ISLANDS							
12988 <i>M 4802</i>	Kusagaki Shima.	30° 51.0' N 129° 28.0' E	Fl.(2)W. period 20s 2 fl. 5s, ec. 15s	459 140	29	White round concrete tower; 46.	
12990 <i>M 4804</i>	Kuro Shima.	30° 49.8' N 129° 57.6' E	Al.Fl.(2)W.G. period 10s	784 239	W. 20 G. 21	White tower; 36.	Visible 125° -351° .
12992 <i>M 4787</i>	Satuma.	30° 46.8' N 130° 16.7' E	Fl.W. period 4s	482 147	22	White round concrete structure; 43.	
12994 <i>M 4787.2</i>	-Breakwater, head.	30° 46.5' N 130° 16.9' E	Fl.R. period 5s	50 15	6	Red tower; 36.	
12996	Mage Sima.	30° 45.9' N 130° 51.4' E	Fl.W. period 3s	46 14	7	White round concrete structure; 39.	
13000 <i>M 4799</i>	Kishika Saki.	30° 49.9' N 131° 03.7' E	Fl.R. period 15s	226 69	21	White quadrangular concrete tower; 43.	Visible 057° -336° .
13002 <i>M 4798.8</i>	Nisinoomote Ko.	30° 44.6' N 130° 58.9' E	Fl.(2)R. period 6s	59 18	10	Red tower; 49.	
13004 <i>M 4796</i>	Nisinoomote Ko Sonosaki, breakwater.	30° 44.0' N 130° 59.0' E	F.Fl.G. period 6s	43 13	F. 5 Fl 12	White round concrete tower; 31.	
13008 <i>M 4797</i>	W. breakwater, N. head.	30° 43.5' N 130° 59.0' E	Iso.R. period 6s	39 12	11	Red round concrete tower; 32.	
13012 <i>M 4798.4</i>	Sinko, W. breakwater, head.	30° 43.6' N 130° 59.4' E	Iso.G. period 4s	42 13	12	White tower; 31.	
13016 <i>M 4798.6</i>	Nisimo-Omote Ko, S. breakwater.	30° 43.7' N 130° 59.1' E	Iso.R. period 4s	46 14	12	Red tower; 33.	
13020 <i>M 4794</i>	Surniyoshi Misaki.	30° 39.9' N 130° 56.6' E	Fl.W. period 5s	75 23	14	Quadrangular concrete tower; 33.	
13024 <i>M 4793.5</i>	Shimana Ko, W. breakwater.	30° 28.2' N 130° 51.9' E	Fl.(2)R. period 6s	52 16	6	Red tower; 33.	
13028 <i>M 4793</i>	Shimana Saki.	30° 28.0' N 130° 51.0' E	Iso.W. period 4s	56 17	13	White round concrete structure; 36.	
13032 <i>M 4792</i>	Otake Zaki.	30° 23.0' N 130° 58.0' E	Fl.(2)W. period 20s 2 fl. 5s, ec. 15s	348 106	26	White round concrete tower; 59.	
13036 <i>M 4800.4</i>	Kumano Ko, breakwater.	30° 27.5' N 130° 58.0' E	Iso.R. period 6s	46 14	10	Red tower; 31.	
13040 <i>M 4800.6</i>	Dir. Lt.	30° 27.2' N 130° 57.8' E	Dir.F.W.R.G.	92 28	W. 14 R. 10 G. 9	White quadrangular concrete structure; 23.	R. 216° 30' -237° 30' , W.- 240° 30' , G.-261° 30' . 239° centerline of navigable fairway.
13044 <i>M 4800</i>	Syoziura Ko, S. breakwater.	30° 43.0' N 131° 05.0' E	F.Fl.G. period 6s	36 11	F. 5 Fl 11	White round concrete tower; 28.	A F.W. light illuminates rock 120 meters NNW.
13048 <i>M 4791.2</i>	Onoaida.	30° 14.0' N 130° 33.4' E	Fl.W. period 6s	167 51	12	White hexagonal concrete structure; 31.	
13052 <i>M 4791</i>	Ambo, outer.	30° 19.0' N 130° 40.0' E	Iso.R. period 4s	46 14	12	Red round concrete structure; 36.	
13056 <i>M 4790.8</i>	Haya Saki.	30° 22.4' N 130° 40.0' E	Iso.W. period 6s	269 82	13	White cylindrical concrete structure; 43.	
13060 <i>M 4790.6</i>	Miyanoura, N. breakwater.	30° 25.8' N 130° 34.9' E	F.Fl.(2)R. period 7s	49 15	F. 6 Fl 12	Red quadrangular metal framework structure; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RYUKYU ISLANDS							
13064 <i>M 4790</i>	Yahazu Saki.	30° 28.0' N 130° 30.0' E	Fl.W. period 10s	144 44	18	White quadrangular concrete structure; 36.	Visible 068° -298° .
13068 <i>M 4790.4</i>	Isso, N. breakwater.	30° 27.4' N 130° 29.5' E	F.Fl.R. period 6s	46 14	F 6 Fl 12	Red tower; 32.	
13072 <i>M 4788</i>	Nagota Misaki.	30° 23.3' N 130° 22.9' E	Fl.W. period 15s	236 72	22	White round brick tower; 66.	Visible 002° -244° .
RAMARK							
13076 <i>M 4786.3</i>	No Saki.	30° 28.9' N 130° 09.0' E	Fl.(2)W. period 14s	302 92	22	White square structure; 39.	
13080 <i>M 4786</i>	Kuchinoerabu Ko, breakwater.	30° 27.0' N 130° 12.0' E	Fl.(2)R. period 7s 2 fl. 2s, ec. 5s	43 13	7	Red tower; 33.	
13084 <i>M 4786.6</i>	Mega Saki.	30° 25.9' N 130° 16.0' E	Fl.(2)W. period 6s	220 67	16	White tower; 32.	
13088 <i>M 4785</i>	Osumi Hira Se.	30° 02.6' N 130° 02.9' E	Fl.W. period 3s	108 33	8	White tower; 33.	
13092 <i>M 4784.5</i>	Kuti-no-Sima.	29° 59.3' N 129° 54.9' E	Iso.R. period 6s	56 17	13	Red tower; 31.	
13096 <i>M 4783</i>	Nakano Shima.	29° 49.0' N 129° 55.0' E	Fl.(3)W. period 20s	207 63	21	White quadrangular concrete tower; 56.	DGPS Station.
13100 <i>M 4784</i>	Gaja Shima.	29° 54.0' N 129° 32.0' E	Fl.W. period 15s	679 207	31	White round concrete structure; 43.	
13102	Akuseki Sima.	29° 26.8' N 129° 37.0' E	Al.Fl.W.G. period 16s	518 158	30	White tower; 48.	Visible 177° -027° .
13104 <i>M 4782.8</i>	Takara Shima.	29° 08.0' N 129° 13.0' E	Fl.W. period 10s	236 72	22	White square concrete tower; 53.	
13108 <i>M 4782.9</i>	-Maegomori Ko, breakwater.	29° 09.6' N 129° 12.5' E	Fl.G. period 3s	52 16	5	White tower; 29.	
13112 <i>M 4782</i>	Tonbi Saki.	28° 22.2' N 130° 01.7' E	Fl.W. period 5s	135 41	18	White round concrete structure; 56.	
13114	Somati Gyoko, breakwater.	28° 19.8' N 130° 00.6' E	Fl.R. period 5s	62 19	11	Red tower.	
13116 <i>M 4782.1</i>	Shitsuru Saki.	28° 16.8' N 129° 57.0' E	Iso.W. period 6s	164 50	19	White round concrete structure; 43.	
13120 <i>M 4782.6</i>	Wan Ko.	28° 19.8' N 129° 56.1' E	Fl.G. period 4s	59 18	10	White tower; 39.	
13124 <i>M 4782.5</i>	Akara Ko Range, front.	28° 19.1' N 129° 57.0' E	F.R.	39 12	8	White concrete column, triangular daymark; 33.	
13128 <i>M 4782.51</i>	-Rear, 500 meters 156° 42' from front.	28° 18.9' N 129° 56.5' E	F.R.	102 31	8	White concrete column, white triangular daymark; 30.	
13132 <i>M 4767</i>	Kasari Saki.	28° 32.0' N 129° 42.0' E	Fl.(2)W. period 30s 2 fl. 10s	197 60	21	White tower; 43.	Visible 079° -335° .
13134 <i>M 4767.8</i>	Akakina Ko Range, front.	28° 26.4' N 129° 39.8' E	F.Y.	43 13	12	White tower, white triangular daymark; 40.	
13134.1 <i>M 4767.81</i>	-Rear, 184° from front.	28° 26.4' N 129° 39.8' E	F.Y.	79 24	12	White tower, white triangular daymark; 20.	
13136	Tatsugo Wan, obstruction light.	28° 26.0' N 129° 37.0' E	F.W.	53 16		White round concrete structure; 36.	Illuminates beacon 300 meters SE.
13140 <i>M 4767.6</i>	Imai Zaki.	28° 28.3' N 129° 37.4' E	Fl.(2)W. period 7s	207 63	20	White round concrete structure; 33.	
13144 <i>M 4768</i>	Borose Saki.	28° 26.6' N 129° 31.6' E	L.Fl.W. period 10s	361 110	20	White round tower; 36.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RYUKYU ISLANDS							
13148 <i>M 4770</i>	Tategami, entrance to Nasa Ko, W. side.	28° 24.0' N 129° 30.0' E	Fl.(2)W. period 6s	128 39	8	White tower; 29.	
13148.5 <i>M 4770.4</i>	-Breakwater, head.	28° 24.4' N 129° 30.2' E	Fl.R. period 3s	33 10	3	Red tower; 25.	
13150 <i>M 4771</i>	Naze Ko.	28° 23.7' N 129° 30.2' E	Iso.R. period 6s	42 13	12	Red tower; 36.	
13151 <i>M 4771.5</i>	-E. breakwater.	28° 23.7' N 129° 30.3' E	Iso.G. period 6s	43 13	8	White concrete tower; 36.	
13152 <i>M 4775</i>	Nase Ko, No. 1 breakwater.	28° 22.9' N 129° 29.9' E	F.Fl.R. period 5s	39 12	F. 6 Fl 11	Red round concrete tower on quadrangular base; 32.	
13156 <i>M 4776</i>	Groin.	28° 22.7' N 129° 30.0' E	Fl.(2)R. period 6s	32 10	6	Red tower; 19.	
13168 <i>M 4778</i>	Oyama Zaki.	28° 21.7' N 129° 20.6' E	Fl.W. period 5s	624 190	20	White tower; 33.	
RAMARK							
13172 <i>M 4780</i>	Satsuko Saki.	28° 15.3' N 129° 08.2' E	Fl.W. period 15s	459 140	21	White tower; 52.	Visible 323° -233° .
13176 <i>M 4780.5</i>	Onensaki.	28° 12.3' N 129° 14.8' E	Fl.W. period 5s	118 36	7	White round concrete structure; 28.	
13178 <i>M 4781.8</i>	Kakeroma Sima.	28° 08.2' N 129° 16.4' E	Fl.W. period 4s	13 4	4	White tower; 7.	
13180 <i>M 4780.6</i>	Seto Saki.	28° 09.0' N 129° 17.8' E	Fl.(2)W. period 6s	135 41	5	White round concrete structure; 31.	
13184 <i>M 4780.7</i>	Koniya Ko, breakwater.	28° 08.4' N 129° 18.9' E	Iso.R. period 6s	23 7	7	Red round concrete tower square base; 19.	
13188 <i>M 4781.5</i>	Machiami Saki.	28° 07.1' N 129° 20.5' E	Fl.W. period 3s	59 18	5	White hexagonal concrete tower; 30.	
13192 <i>M 4781</i>	Kaitsu Saki.	28° 06.7' N 129° 22.6' E	Fl.W. period 6s	338 103	20	White tower; 27.	
TOKUNO SHIMA:							
13196 <i>M 4766.5</i>	-Kanami Saki.	27° 53.5' N 128° 58.2' E	Fl.W. period 3s	141 43	12	White cylindrical concrete structure; 39.	F.W. illuminates Tombara Iwa about 2 miles NNE.
13200 <i>M 4766.7</i>	Kametoku Ko, S. breakwater.	27° 44.3' N 129° 01.7' E	Fl.G. period 4s	59 18	10	White tower; 42.	
13204 <i>M 4766.8</i>	Kametoku Range, front.	27° 44.3' N 129° 01.4' E	F.Y.	56 17	12	White round concrete tower, arrow topmark; 49.	
13208 <i>M 4766.81</i>	-Rear, about 130 meters 282° 30' from front.	27° 44.3' N 129° 01.3' E	F.Y.	72 22	12	White round concrete tower, arrow topmark; 49.	
13212 <i>M 4765.6</i>	Kinen Saki.	27° 40.0' N 128° 59.3' E	Fl.(2)W. period 7s	72 22	14	White tower; 46.	
13216 <i>M 4765.8</i>	Hetono Ko, jetty.	27° 48.5' N 128° 53.5' E	Fl.W. period 3s	46 14	12	White round concrete structure; 28.	
13220 <i>M 4766</i>	Yon ama Saki.	27° 52.7' N 128° 53.6' E	Fl.(2)W. period 10s	177 54	19	White tower; 52.	
OKINO-ERABU SHIMA:							
13224 <i>M 4765.4</i>	-Kunigami Saki.	27° 26.0' N 128° 43.0' E	Fl.W. period 5s	151 46	18	White round concrete structure; 66.	Visible 097° -049° 30' . Aero Radiobeacon.
13228 <i>M 4765.34</i>	Wadomari Ko Range, front.	27° 24.0' N 128° 40.0' E	F.R.	52 16	10	White round concrete tower; 24.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RYUKYU ISLANDS							
13232 <i>M 4765.35</i>	-Rear, about 50 meters 282° 48' from front.	27° 23.6' N 128° 39.7' E	F.R.	69 21	10	White round concrete tower; 32.	
13236 <i>M 4765.3</i>	Tina Ko, wharf.	27° 19.8' N 128° 34.0' E	Dir.F.W.R.G.	105 32	W. 13 R. 7 G. 7	White round concrete structure; 43.	R. 014° 18' -022° 18', W.- 029° 48' G.-037° 48'.
13240 <i>M 4765.2</i>	Yakuniya Saki.	27° 24.0' N 128° 32.0' E	Fl.(2)W. period 7s	236 72	22	White round concrete structure; 59.	
13242 <i>M 4765.5</i>	-Inobe Ko Range, front.	27° 24.6' N 128° 38.8' E	F.Y.	75 23	12	White tower, white triangular daymark; 52.	
13242.1 <i>M 4765.51</i>	--Rear, 151° from front.	27° 24.6' N 128° 38.8' E	F.Y.	98 30	12	White tower, white triangular daymark; 43.	
YORON JIMA:							
13244 <i>M 4763.8</i>	-Aka Saki.	27° 01.5' N 128° 27.3' E	Fl.W. period 4s	75 23	13	White round concrete structure; 46.	
13246 <i>M 4763.9</i>	Yoron Ko.	27° 02.4' N 128° 24.1' E	Dir.F.W.R.G.	69 21	W. 13 R. 10 G. 11	White tower; 29.	R. 356° -359°, W.-001°, G.- 004°.
13248 <i>M 4764</i>	Hanebu Saki.	27° 03.0' N 128° 24.0' E	Iso.W.R. period 6s	65 20	13	White round concrete structure; 32.	R. 102° -154°, W.-174°, R.- 240°, W.-102°.
13252 <i>M 4764.4</i>	Yoron Ko Range, front.	27° 03.0' N 128° 25.0' E	F.G.	46 14	12	White round metal tower; 32.	
13256 <i>M 4764.41</i>	-Rear, 45 meters 132° 42' from front.	27° 02.6' N 128° 24.7' E	F.G.	62 19	13	White round metal tower; 30.	
13260 <i>M 4765</i>	Dana Misaki.	27° 05.6' N 128° 01.2' E	Fl.W. period 12s	377 115	22	White round tower; 49.	
13261 <i>M 4765.05</i>	Maedomari Ko.	27° 01.9' N 127° 58.2' E	Fl.G. period 3s	56 17	7	White tower; 39.	
13262 <i>M 4764.7</i>	Iheya Gyoko, breakwater, S. head.	27° 01.0' N 127° 56.7' E	Fl.R. period 3s	33 10	5	Red tower; 19.	
13263 <i>M 4764.5</i>	Nakado Ko, breakwater.	26° 55.5' N 127° 57.4' E	Fl.R. period 3s	60 18	7	Red tower; 39.	
OKINAWA JIMA:							
13264 <i>M 4763</i>	-Hedo Misaki.	26° 52.0' N 128° 14.8' E	Fl.W. period 6s	233 71	13	White tower; 35.	
13266 <i>M 4763.2</i>	-Hentona Ko, breakwater.	26° 44.8' N 128° 10.8' E	Fl.G. period 3s	33 10	5	White concrete structure; 18.	
13268 <i>M 4762.9</i>	Setake Saki.	26° 44.7' N 128° 19.6' E	Fl.W. period 10s	285 87	24	Square white concrete tower; 49.	
13272 <i>M 4762.2</i>	Takabaka Saki.	26° 32.2' N 128° 05.3' E	Fl.(2)W. period 6s	82 25	5	White tower; 33.	
13280 <i>M 4762.4</i>	Naga Shima.	26° 31.2' N 128° 03.7' E	Fl.W. period 3s	85 26	8	White quadrangular concrete structure; 33.	
13282 <i>M 4761.8</i>	Kunigami Seaberth, breakwater.	26° 26.3' N 127° 55.2' E	Mo.(U)W. period 12s	46 14	9		
13284 <i>M 4758</i>	Mengui Syo, Kin Wan approach.	26° 25.0' N 128° 01.9' E	Q.W.	39 12	5	N. CARDINAL BY, beacon, topmark; 39.	Radar reflector.
13290 <i>M 4761.6</i>	-Beacon No. 4.	26° 25.5' N 127° 50.2' E	Fl.R. period 4s	16 5	1	STARBOARD (B) R, beacon, topmark; 17.	
13292 <i>M 4761.4</i>	Ishikawa, breakwater, head.	26° 25.4' N 127° 51.1' E	Mo.(U)W. period 8s	46 14	10		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RYUKYU ISLANDS							
13296 <i>M 4759</i>	Ike Sima.	26° 23.9' N 127° 59.8' E	Fl.(2)W.R. period 6s	135 41	12	White round concrete structure; 46.	R. 242° -265° , W.-242° .
13300 <i>M 4759.2</i>	Okinawa Sekiyukiti Sea Berth.	26° 23.4' N 127° 58.5' E	Mo.(U)W. period 15s	135 41	9		Auxiliary lights Mo.(U)W. 15s at 280 meters ENE. and 310 meters SW.
13300.5 <i>M 4759.25</i>	Okinawa Terminal Sea Berth.	26° 22.7' N 127° 57.9' E	Mo.(U)W. period 12s	112 34	9		Auxiliary lights Mo.(U)W. 12s 240 meters NE. and 240 meters SW.
13302 <i>M 4760</i>	Kin Wan Offshore Terminal.	26° 22.9' N 127° 53.3' E	Mo.(U)W. period 8s	49 15	9		
13304 <i>M 4759.4</i>	Kin Nagakusuku Ko.	26° 21.7' N 127° 56.2' E	Q.(3)W. period 10s	24 7	7	E. CARDINAL BYB, beacon, topmark.	
13304.5 <i>M 4757.5</i>	Ikei Sima, S.	26° 22.5' N 127° 59.9' E	Fl.R. period 3s	18 5	3	STARBOARD (B) R, beacon, topmark.	
13305 <i>M 4754.7</i>	Hamahiga Kuti.	26° 20.0' N 127° 59.8' E	Fl.R. period 3s	18 5	3	STARBOARD (B) R, beacon, topmark; 18.	
13306 <i>M 4754.6</i>	Hamahiga Sa, breakwater.	26° 19.5' N 127° 57.2' E	Fl.G. period 3s	24 7	5	White concrete structure; 18.	
13308 <i>M 4754</i>	Katuren Saki.	26° 17.8' N 127° 54.9' E	Fl.W. period 6s	200 61	10	White quadrangular concrete structure; 36.	
13310 <i>M 4754.8</i>	-W. detached breakwater, E. head.	26° 18.4' N 127° 52.1' E	Fl.G. period 3s	42 13	5	White tower; 31.	
13310.5 <i>M 4754.9</i>	-E. detached breakwater, W. head.	26° 18.5' N 127° 52.3' E	Fl.R. period 3s	33 10	4	Red tower; 18.	
13311 <i>M 4754.7</i>	-Small craft basin, W. breakwater, head.	26° 17.9' N 127° 54.7' E	F.G.	10 3	4		
13311.5	--E. breakwater, head.	26° 17.9' N 127° 54.7' E	F.R.	10 3	4		
13313 <i>M 4752</i>	-Navy Pier, head.	26° 17.7' N 127° 54.4' E	Iso.W. period 6s	9 3	4	White post; 9.	
13316 <i>M 4752</i>	Tsuken Jima.	26° 15.0' N 127° 56.2' E	Fl.W. period 4s	167 51	12	White round concrete structure; 46.	
13320 <i>M 4752.4</i>	-Breakwater, head.	26° 14.7' N 127° 56.0' E	Fl.G. period 3s	36 11	4	White tower; 22.	
13322 <i>M 4754.5</i>	Usiziuuse, E. breakwater.	26° 18.5' N 127° 55.5' E	Fl.R. period 3s	30 9	4	Red tower; 19.	
13324 <i>M 4753</i>	Taira Sone, Hira Sone.	26° 15.8' N 127° 53.1' E	Fl.W. period 4s	39 12	8	White structure; 36.	
13326 <i>M 4755</i>	Gusikawa, breakwater, head.	26° 19.5' N 127° 50.5' E	Fl.R. period 3s	26 8	6	Red tower; 18.	
13336 <i>M 4750.84</i>	<i>Nansei Sea Berth Buoy.</i>	26° 14.2' N 127° 49.9' E	Mo.(U)W. period 8s		7	Red buoy.	
13348 <i>M 4750.7</i>	Kin Nanseki.	26° 13.1' N 127° 47.6' E	Mo.(U)W. period 10s	72 22	12	White quadrangular metal structure.	Mo.(U)W. 10s 130 meters E. and 150 meters WNW.
13349 <i>M 4749.5</i>	Untaku.	26° 10.8' N 127° 50.8' E	Mo.(A)G. period 8s	16 5	3	PORT (B) G, beacon, topmark.	
13352 <i>M 4750</i>	China Saki, on shoal.	26° 11.4' N 127° 49.3' E	Fl.W. period 3s	115 35	8	White quadrangular concrete structure; 39.	
13354 <i>M 4750.2</i>	Yonabaru Wan, breakwater.	26° 11.5' N 127° 48.8' E	Fl.G. period 3s	46 14	3	White tower; 31.	
13356 <i>M 4750.4</i>	Baten Ko, breakwater, head.	26° 10.9' N 127° 46.8' E	F.Fl.R. period 3s	39 12	F. 6 Fl 11	Red round concrete structure; 31.	
13360 <i>M 4749</i>	Kudaka Sima.	26° 09.3' N 127° 53.1' E	Fl(2).W. period 6s	82 25	12	White square concrete tower; 36.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RYUKYU ISLANDS							
13362 <i>M 4748.5</i>	Hira Bishi.	26° 08.5' N 127° 52.6' E	Mo.(B)G. period 8s	16	3	PORT (B) G, beacon, topmark; 17.	
13364 <i>M 4748</i>	Kiyan Saki.	26° 05.0' N 127° 40.0' E	Fl.W. period 5s	154 47	18	White round concrete structure; 49.	Aero Radiobeacon 1.3 miles N.
13365 <i>M 4747</i>	Tokomasari-sho.	26° 05.7' N 127° 38.2' E	Q.(9)W. period 15s	16 5	3	W. CARDINAL YBY, beacon, topmark.	
13368 <i>M 4746</i>	Rukan Sho Reef.	26° 06.6' N 127° 31.9' E	Fl.(2)W. period 10s	72 22	11	White round concrete tower; 56.	Radar reflector.
13368.5 <i>M 4745.2</i>	Muki.	26° 08.7' N 127° 37.3' E	Q.(9)W. period 15s	16 5	3	W. CARDINAL YBY, beacon, topmark.	
13370 <i>M 4745.4</i>	Yone Ko, breakwater.	26° 09.9' N 127° 39.1' E	Fl.G. period 3s	29 9	3	White tower; 18.	
13371 <i>M 4744</i>	O Se.	26° 11.7' N 127° 36.9' E	Q.(9)W. period 15s	16 5	3	W. CARDINAL YBY, beacon, topmark.	
13372 <i>M 4740.87</i>	Sinko, No. 1 breakwater, N. head.	26° 15.2' N 127° 39.5' E	Fl.R. period 3s	72 22	7	Red tower; 62.	
13372.2 <i>M 4740.9</i>	Urasoe, No. 1 breakwater, W. head.	26° 15.5' N 127° 39.3' E	Fl.G. period 5s	46 14	3		
13374 <i>M 4740.95</i>	Inner harbor, N. breakwater.	26° 15.3' N 127° 40.4' E	Fl.G. period 3s	43 13	3	White tower; 22.	
13376 <i>M 4740.8</i>	Naha Sinko Basin, breakwater.	26° 13.9' N 127° 40.7' E	F.Fl.R. period 3s	36 11	F. 3 Fl 7	Red round concrete structure; 31.	
13380 <i>M 4740.85</i>	Sinko, No. 1 breakwater, S. head.	26° 13.5' N 127° 39.1' E	Fl.G. period 4s	72 22	11	White round concrete structure; 62.	
13382 <i>M 4744.8</i>	Naha, breakwater, N. head.	26° 13.4' N 127° 38.6' E	Fl.R. period 4s	30 9	7	Red tower; 8.	
13388 <i>M 4741.3</i>	-Port side.	26° 12.9' N 127° 39.8' E	Fl.G. period 3s	19 6	5	PORT (B) G, beacon, topmark; 18.	Visible 322° -142° .
13392 <i>M 4743</i>	-Starboard side.	26° 12.8' N 127° 39.8' E	Fl.R. period 3s	22 7	5	Red round concrete structure; 15.	
13404 <i>M 4745</i>	Naha AVIATION LIGHT.	26° 11.7' N 127° 38.7' E	Al.Fl.W.G. period 4.3s				
13407 <i>M 4739.92</i>	Kuro Shima.	26° 14.4' N 127° 24.4' E	Fl.(2)W. period 5s	16 5	3	ISOLATED DANGER BRB, beacon, topmark.	
13408 <i>M 4739.9</i>	Hate Shima.	26° 14.4' N 127° 27.5' E	Fl.W. period 3s	115 35	8	White tower; 43.	
13410	Nagannu Sima, atoll, NW. head.	26° 16.5' N 127° 31.7' E	Q.(9)W. period 15s	16 5	3	W. CARDINAL YBY, beacon, topmark.	
13412 <i>M 4740</i>	Kamiyama Shima.	26° 15.8' N 127° 35.0' E	Fl.W. period 4s fl. 0.4s, ec. 3.6s	69 21	9	White quadrangular structure; 32.	
13414 <i>M 4740.6</i>	Machinato Wan, breakwater, head.	26° 16.7' N 127° 43.5' E	Fl.G. period 3s	36 11	5	White tower; 21.	
13419	Toya Ko.	26° 23.3' N 127° 43.3' E	Fl.G. period 3s	36 11	3	White tower; 17.	
13420 <i>M 4740.3</i>	Zampa Misaki.	26° 26.4' N 127° 42.8' E	Fl.(2)W. period 10s	131 40	18	White tower; 102.	
13422 <i>M 4740.4</i>	Maeta Saki, E.	26° 26.7' N 127° 48.1' E	Fl.G. period 3s	29 9	5	White tower; 18.	
13424 <i>M 4763.5</i>	Toguchi Ko, S. breakwater, head.	26° 39.4' N 127° 53.4' E	Fl.R. period 4s	33 10	11	Red round concrete structure; 28.	
13428 <i>M 4763.52</i>	N. breakwater, head.	26° 39.4' N 127° 53.4' E	Fl.G. period 5s	30 9	10	White round concrete structure; 25.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RYUKYU ISLANDS							
13432 <i>M 4763.7</i>	Nago Wan.	26° 35.0' N 127° 58.8' E	Fl.G. period 3s	39 12	5	White round concrete structure; 31.	
13436 <i>M 4763.54</i>	Sinko, breakwater, head.	26° 38.5' N 127° 52.7' E	Fl.R. period 3s	43 13	5	Red tower; 33.	
13440 <i>M 4763.4</i>	Bise Zaki.	26° 42.6' N 127° 52.8' E	Fl.W. period 5s	56 17	13	White round concrete structure; 39.	
13444 <i>M 4763.44</i>	Kouri Shima.	26° 42.6' N 128° 00.7' E	Iso.W. period 6s	174 53	14	White round concrete structure; 36.	
13448 <i>M 4763.6</i>	Ie Shima, island, W. head.	26° 43.6' N 127° 45.0' E	Fl.W. period 4s	102 31	12	White tower; 36.	
13449 <i>M 4763.57</i>	Ie Ko, breakwater, head.	26° 42.2' N 127° 48.2' E	Fl.G. period 3s	56 17	6	White tower; 36.	
13450 <i>M 4763.61</i>	Ryukyu Nakan Si.	26° 40.5' N 127° 49.4' E	Fl.(2)W. period 5s	18 5	9	ISOLATED DANGER BRB, beacon, topmark; 19.	
13452 <i>M 4763.64</i>	Minna Shima.	26° 38.6' N 127° 49.3' E	Fl.W. period 3s	89 27	15	White round concrete tower; 39.	
	RACON		(- - - - -)		9		
OKINAWA GUNTO:							
13460 <i>M 4739.8</i>	-Aware Saki.	26° 08.0' N 127° 21.0' E	Fl.W. period 8s	318 97	17	White round concrete tower; 31.	
13461	-Hirasi.	26° 11.9' N 127° 19.6' E	Fl.(2)W. period 5s	16 5	5	ISOLATED DANGER BRB, beacon, topmark; 17.	
13462 <i>M 4739.85</i>	Tokashiki.	26° 11.9' N 127° 22.4' E	Fl.G. period 3s	52 16	5	White tower; 39.	
13463 <i>M 4739.88</i>	Mae Shima.	26° 11.9' N 127° 26.3' E	Fl.(2)R. period 6s	18 5	3	STARBOARD (B) R, beacon, topmark; 18.	
13464 <i>M 4739.5</i>	Kitabirasi.	26° 13.4' N 127° 20.2' E	Fl.W. period 5s	243 74	12	White round concrete tower; 23.	
13466 <i>M 4739.7</i>	Zamami Ko, breakwater.	25° 13.1' N 127° 18.0' E	Fl.R. period 3s	43 13	6		
13468 <i>M 4739.6</i>	Kahi Shima.	26° 12.9' N 127° 17.1' E	Fl.W. period 4s	141 43	12	White round concrete structure; 31.	
13472 <i>M 4739.48</i>	Aguni Sima.	26° 34.6' N 127° 12.8' E	Oc.W. period 4s	354 108	12	White round concrete structure; 52.	
13476 <i>M 4739.47</i>	Tonaki Shima.	26° 22.3' N 127° 08.5' E	Iso.W. period 8s	49 15	12	White tower; 33.	
13480 <i>M 4739.4</i>	Ogan Misaki.	26° 21.5' N 126° 55.8' E	Fl.W. period 10s	33 10	7	White square concrete tower; 31.	
13482 <i>M 4739.42</i>	Nakazato Ko.	26° 21.1' N 126° 49.6' E	Fl.R. period 3s	59 18	7	Red concrete structure; 31.	
13490 <i>M 4739.37</i>	Torisima Ko.	26° 19.7' N 126° 45.0' E	Fl.R. period 3s	16 5	4	STARBOARD (B) R, beacon, topmark; 18.	
13491 <i>M 4739.39</i>	-Approach.	26° 20.6' N 126° 45.0' E	Fl.G. period 3s	30 9	3	White tower; 22.	
13492 <i>M 4739.2</i>	Kume Sima.	26° 22.3' N 126° 43.8' E	Fl.(2)W. period 6s	177 54	12	White concrete structure; 69.	
13496 <i>M 4801</i>	Kita-daito Shima.	25° 57.0' N 131° 17.6' E	Fl.W. period 15s	295 90	22	White round concrete structure; 72.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RYUKYU ISLANDS							
SAKISHIMA GUNTO:							
13500 <i>M 4739</i>	-Hude Iwa.	24° 58.8' N 125° 21.6' E	Fl.W. period 3s	52 16	12	White square concrete tower; 36.	
13504 <i>M 4738</i>	Ikema Shima.	24° 55.9' N 125° 14.3' E	Fl.W. period 12s	138 42	18	White round concrete structure; 85.	
13506 <i>M 4738.5</i>	Ikema Sima.	24° 55.8' N 125° 15.8' E	Fl.(2)R. period 6s	16 5	3	STARBOARD (B) R, beacon, topmark.	
13508 <i>M 4738.4</i>	Ikema Gyoko.	24° 55.2' N 125° 15.0' E	Fl.R. period 3s	36 11	5	Red tower; 19.	
13510 <i>M 4738.6</i>	Ogami Sa, breakwater.	24° 54.4' N 125° 18.5' E	Fl.R. period 3s	27 8	6	Red tower; 19.	
13512 <i>M 4737.8</i>	Sarahama.	24° 50.3' N 125° 14.2' E	Fl.R. period 5s	43 13	12		
13513 <i>M 4737.7</i>	Sarahama Ko, breakwater, S. head.	24° 50.0' N 125° 13.1' E	Fl.(2)R. period 6s	49 15	9	Red round concrete tower; 31.	
13516 <i>M 4737</i>	Agari-Henna Saki.	24° 42.9' N 125° 28.2' E	Al.Fl.W.R. period 20s	141 43	18	White octagonal concrete structure; 82.	
13520 <i>M 4737.5</i>	Hirara Ko.	24° 48.8' N 125° 16.7' E	Fl.(2)G. period 7s	39 12	5	White round concrete tower; 31.	
13524 <i>M 4736</i>	Minna Shima.	24° 44.4' N 124° 42.2' E	Fl.W. period 4s	72 22	14	White square concrete tower; 43.	
13528 <i>M 4734</i>	Hirakubosaki.	24° 36.5' N 124° 18.9' E	Iso.W. period 6s	243 74	12	White round concrete tower; 43.	
13532 <i>M 4733</i>	Ogan Misaki.	24° 27.0' N 124° 05.0' E	Fl.W. period 10s	203 62	21	White round concrete tower; 56.	
13536 <i>M 4732</i>	Ryukyu, Kannon Zaki.	24° 21.6' N 124° 06.8' E	Iso.W. period 6s	66 20	13	White round concrete structure; 36.	
13540 <i>M 4734.26</i>	Ishigaki Ko.	24° 20.0' N 124° 07.9' E	Fl.(2)R. period 6s	43 13	4	Red tower; 30.	
13542 <i>M 4734.15</i>	-Eastward.	24° 19.9' N 124° 09.7' E	Fl.R. period 3s	30 9	3	Red tower; 20.	
13544 <i>M 4734.3</i>	-Outer breakwater, S. head.	24° 20.2' N 124° 08.4' E	Fl.G. period 3s	39 12	4	White round concrete structure; 31.	
13548 <i>M 4734.4</i>	-Entrance to Isigaki.	24° 20.1' N 124° 08.2' E	Fl.(2)G. period 8s	56 17	7	White concrete structure; 52.	
13550 <i>M 4734.5</i>	-Inner breakwater.	24° 20.6' N 124° 08.7' E	Fl.G. period 3s	23 7	3	White tower; 19.	
13554 <i>M 4734.7</i>	Nakama Ko, breakwater, head.	24° 15.9' N 123° 53.2' E	Fl.G. period 3s	26 8	6		
13556 <i>M 4729</i>	Kuma Saki, .Obama Jima, SW. point.	24° 20.0' N 123° 57.0' E	Fl.W. period 5s	69 21	14	White round concrete structure; 31.	
13560 <i>M 4730</i>	Hatoma Jima.	24° 28.0' N 123° 49.3' E	Iso.W. period 8s	154 47	18	White tower; 52.	
13564 <i>M 4731</i>	Funauke Ko.	24° 21.0' N 123° 42.0' E	Fl.W. period 6s	79 24	14	White round concrete tower; 36.	
13568 <i>M 4735</i>	Haterumia Jima.	24° 03.3' N 123° 47.3' E	Iso.W. period 6s	230 70	22	Square white tower; 36.	May be obscured by trees 218° -250° .
13576 <i>M 4728.4</i>	Yonaguni Jima.	24° 27.5' N 123° 02.6' E	Fl.W. period 8s	276 84	22	White round concrete tower; 32.	
13580 <i>M 4728</i>	Yonaguni Jima, Irii Saki.	24° 27.0' N 122° 55.0' E	Fl.W. period 5s	246 75	22	White square concrete tower; 66.	F.W. auxiliary light.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RYUKYU ISLANDS							
13586 <i>M 4728.3</i>	--W. extension, head.	24° 27.2' N 122° 56.0' E	Fl.G. period 3s	52 16	8		
TAIWAN							
13588 <i>F 4690</i>	P'eng-chia Hsu (T).	25° 38.0' N 122° 04.2' E	Fl.W. period 15s	480 146	25	White round brick structure; 86.	Within 2 miles the light may be obscured from 264° to 316°.
13592 <i>F 4670</i>	Fu-kuei Chiao.	25° 17.8' N 121° 32.2' E	Fl.(2)W. period 15s	103 31	27	Octagonal concrete tower, black and white bands.	Visible 069° -272°. Horn: 1 bl. ev. 30s.
13596 <i>F 4672</i>	Yeh-liu Pan-tao.	25° 13.0' N 121° 41.0' E	L.Fl.W. period 10s fl. 3s, ec. 7s	325 99	16	White concrete column on tripod; 37.	
13600 <i>F 4672.2</i>	Chi-Lung Tao.	25° 11.6' N 121° 47.2' E	Fl.W. period 5s	621 189	14	Octagonal concrete tower, white and black stripes; 40.	
CHI-LUNG:							
13604 <i>F 4674</i>	-Wan-Jentui Pi.	25° 09.3' N 121° 44.9' E	Mo.(A)W. period 7s fl. 0.5s, ec. 1.5s fl. 1s, ec. 4s	132 40	16	White round tower; 36.	Visible 151° -347°.
13612 <i>F 4672.4</i>	-Shei-ho Power Plant AVIATION LIGHT.	25° 09.0' N 121° 44.0' E	Fl.W. period 1.5s fl. 0.3s, ec. 1.2s	646 197	12	Chimney.	Obstruction. Three sets of lights vertically disposed.
13616 <i>F 4675</i>	-E. breakwater, head.	25° 09.6' N 121° 45.3' E	Fl.G. period 3s fl. 0.6s, ec. 2.4s	54 16	10	Green octagonal concrete tower; 36.	
13620 <i>F 4676</i>	-W. breakwater, head.	25° 09.5' N 121° 45.2' E	Fl.R. period 3s	54 16	8	Red octagonal concrete tower; 36.	Radar reflector.
13624 <i>F 4675.5</i>	-E. breakwater extension.	25° 09.8' N 121° 45.2' E	Fl.G. period 4s fl. 0.5s, ec. 3.5s	72 22	14	Green round concrete tower; 56.	
-RACON			C(- • - •) period 75s		15		
13628 <i>F 4676.6</i>	-E. inner breakwater, head.	25° 09.4' N 121° 45.4' E	Fl.G. period 6s fl. 0.5s, ec. 5.5s	35 11	8	Green round concrete column; 23.	Fl.G. light marks stranded wreck 195 meters SSW. 4 Fl.G. lights mark stranded wreck 330 meters SE.
13632 <i>F 4677</i>	-W. inner breakwater, head.	25° 09.4' N 121° 44.8' E	F.R.	98 30	8	Blue round tower; 85.	
13634 <i>F 4680</i>	-Berth No. 19, SE. corner.	25° 08.7' N 121° 45.2' E	Fl.R. period 5s		5		
13635 <i>F 4680.5</i>	-Berth 18B.	25° 08.7' N 121° 45.1' E	Fl.R. period 4s			Concrete post.	
13636 <i>F 4679</i>	-An Lan.	25° 08.9' N 121° 44.9' E	Fl.G. period 2s fl. 0.4s, ec. 1.6s	35 11	8	Green round concrete column; 22.	
13640 <i>F 4678</i>	-Yu Chiang, Entrance.	25° 09.2' N 121° 45.3' E	F.G.	24 7	9	Green round concrete tower; 21.	
13652 <i>F 4682.5</i>	-Chien-shan Pi, breakwater.	25° 09.5' N 121° 46.8' E	Fl.Y. period 4s	53 16	6		
13656 <i>F 4683</i>	-Pachimen Log Basin.	25° 09.4' N 121° 46.5' E	Iso.G. period 4s	35 11	5	White round concrete column; 22.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TAIWAN							
PA-TOU:							
13658 <i>F 4684</i>	-W. breakwater, head.	25° 08.9' N 121° 47.4' E	Fl.(3)R. period 10s	46 14	9		
13659 <i>F 4685</i>	-E. breakwater, head.	25° 08.9' N 121° 47.5' E	Fl.G. period 4s fl. 1s, ec. 3s	46 14	9	Green tower; 30.	
13660 <i>F 4686</i>	-Inner N. breakwater, head.	25° 08.8' N 121° 47.5' E	Fl.G. period 4s				
13661 <i>F 4687</i>	-Inner S. breakwater, head.	25° 08.8' N 121° 47.4' E	Fl.R. period 4s				
13662 <i>F 4688</i>	-Quay.	25° 08.7' N 121° 47.5' E	Fl.R. period 4s				
SHEN AO OIL HARBOR:							
13664 <i>F 4692.4</i>	-Shen-ao, bay, SE. side.	25° 07.6' N 121° 49.7' E	Oc.G. period 11s	43 13	3		
13668 <i>F 4692.2</i>	-Entrance Range, front.	25° 07.5' N 121° 49.2' E	F.G.	59 18	3		
13672 <i>F 4692.21</i>	--Rear, 87 meters 228° from front.	25° 07.5' N 121° 49.2' E	F.G.	70 21	3		
13676 <i>F 4693</i>	Pi-tou Chiao.	25° 08.0' N 121° 55.0' E	Oc.W. period 11s lt. 6s, ec. 5s	214 65	16	White round concrete tower; 40.	Visible 090° -325°.
13677 <i>F 4693.2</i>	-Lung-tung meteorological service.	25° 06.0' N 121° 55.3' E	Fl.W. period 7s				
13677.2 <i>F 4693.4</i>	-Beacon 1.	25° 05.9' N 121° 55.1' E	Fl.W. period 4s				
13678	Observation platform.	25° 06.8' N 122° 02.5' E	Fl.W. period 15s	10 3			
13680 <i>F 4694</i>	San-tiao Chiao.	25° 01.0' N 122° 00.0' E	L.Fl.(2)W.R. period 28s 2 fl. 7s, ec. 21s	331 101	W. 25 R. 20	White round concrete tower; 54.	R. 011° -021°, W. elsewhere.
13682 <i>F 4697</i>	Kui-shan Tao.	24° 50.6' N 121° 56.4' E	Q.(3)W. period 10s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 7.5s	39 12	9		
SU-AO CHIANG:							
13684 <i>F 4700</i>	-Pei Chiao.	24° 36.0' N 121° 53.1' E	Fl.W.R. period 7s	185 56	W. 16 R. 12	White square concrete tower; 26.	W. 164° -210°, R.-240°, W.-268°, R.-303°, W.-073°.
	-RACON		G(- - •) period 75s		15		Located 190 meters 286° from light.
13688 <i>F 4700.5</i>	-N. outer breakwater, head.	24° 35.7' N 121° 52.9' E	Fl.(2)R. period 5s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 3.5s	70 21	10	Red round concrete tower; 62.	
13692 <i>F 4700.6</i>	-S. outer breakwater, head.	24° 35.6' N 121° 52.8' E	Fl.(2)G. period 5s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 3.5s	71 22	11	Green round concrete tower; 60.	
13696 <i>F 4701</i>	-On heights about 2.8 kilometers W. of Pei Chiao.	24° 36.0' N 121° 51.0' E	Oc.W.R.G. period 3s lt. 2s, ec. 1s	240 73	W. 12 R. 9 G. 9	White steel framework tower.	R. 284° -292°, W.-295°, G.-309°, obscured elsewhere.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TAIWAN							
13700 F 4701.2	-Breakwater, N. head.	24° 35.8' N 121° 52.1' E	Fl.G. period 5s fl. 1s, ec. 4s	44 13	11	Green round concrete column; 34.	
13704 F 4701.22	-Breakwater, S. head.	24° 35.4' N 121° 52.1' E	Fl.(3)R. period 8s	6 2			
13712 F 4701.25	-Training Wall, head.	24° 36.0' N 121° 51.0' E	Fl.(3)R. period 8s				
13716 F 4701.15	-Suao Kang, N. inner breakwater.	24° 35.8' N 121° 52.3' E	Oc.R. period 5s lt. 3s, ec. 2s	69 21	9	Red octagonal concrete column; 62.	Q.R. lights mark entrance to Pei-fang Wan, close NW.
13718	-Nan-fang Wan, Pier 13.	24° 35.2' N 121° 52.1' E	Fl.W. period 3s				
13719	--S2.	24° 35.2' N 121° 52.0' E	F.G.				
13721 F 4702	Nan-fang-ao, breakwater, W.	24° 35.1' N 121° 52.1' E	F.R.	16 5	7	Red concrete column.	
13722 F 4703	-E.	24° 35.1' N 121° 52.2' E	F.G.	16 5	7	White concrete column.	
13725 F 4704	Ho-p'ing Hsi , front.	24° 18.4' N 121° 45.8' E	Dir.W.R.G.	75 23	16		F.R. 005°-007° 30', A.I.R.- 009° 30', F.G.-010° 30', A.I.G.-012° 30', F.W.- 015°.
13725.5 F 4704.1	-Rear.	24° 19.1' N 121° 45.9' E	Q.G.	174 53	17	Red and white iron tower; 197.	
13726 F 4704.2	-W. Breakwater, head.	24° 17.5' N 121° 45.5' E	Fl.(2)G. period 8s	75 23	10	Green structure; 43.	Fl.(2)R. 8s 25m 13M light on E. Breakwater.
13728 F 4705	Chi-lai Pi .	24° 01.0' N 121° 38.6' E	Iso.W. period 6s	108 33	17	White pentagonal concrete tower; 43.	Visible 150°-024°. Partially obscured 352°- 001°.
HUA-LIEN ANCHORAGE:							
13732 F 4706	-Hua-Lien.	23° 58.6' N 121° 36.8' E	Fl.(3)G. period 12s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 7s	148 45	10	White square steel trellis tower; 91.	Visible 232°-019°.
13736 F 4708	-Hua-lien Range, front.	23° 59.7' N 121° 38.3' E	F.G.	46 14	7	White concrete column, red triangular topmark, point up; 39.	
13740 F 4708.1	--Rear, 600 meters 022° 30' from front.	24° 00.0' N 121° 38.4' E	F.R.	79 24	8	Red square concrete column, white triangular topmark, point down; 69.	
13746 F 4709.5	-Mei-Lun.	23° 59.6' N 121° 38.2' E	Fl.G. period 2s	29 9	2		
13747 F 4709.7	Mei-Lun retaining wall.	23° 59.1' N 121° 38.0' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s			Round steel pole.	
13747.5 F 4710	Mei-Lun boat basin.	23° 59.9' N 121° 38.3' E	Fl.R. period 2s	11 3	2	Red round steel column.	
13748 F 4709	-E. breakwater, S. head.	23° 58.3' N 121° 37.7' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	43 13	8	Red round concrete column; 36.	
13749	-E. breakwater, head.	23° 58.2' N 121° 37.7' E	Fl.R. period 4s fl. 1s, ec. 3s	78 24	11	Red round concrete tower; 75.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TAIWAN							
13750 F 4709.3	-W. breakwater, head.	23° 58.4' N 121° 37.6' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	59 18	12	Green round concrete column; 36.	
	-RACON		D(- • •)		15		(3 & 10 cm)
13752 F 4714	San-hsien-t'ai.	23° 07.8' N 121° 25.2' E	Fl.W. period 6s	200 61	9	White square concrete column; 23.	Visible 137° -039° .
13756 F 4716	Ch'eng-kung Anchorage, E. breakwater.	23° 05.8' N 121° 22.7' E	Fl.(2)W. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	38 12	12	White concrete column; 33.	
13760 F 4724	Huo-shao Tao.	22° 40.4' N 121° 27.9' E	Fl.(2)W. period 20s	157 48	26	White round concrete tower; 100.	
13764 F 4725	Lan Yu.	22° 04.8' N 121° 29.9' E	Fl.(4)W. period 24s fl. 0.3s, ec. 3.7s fl. 0.3s, ec. 3.7s fl. 0.3s, ec. 3.7s fl. 0.3s, ec. 11.7s	710 216	26	White round tower; 48.	Obscured by high land of island.
13768 F 4602	O-luan Pi.	21° 54.2' N 120° 51.0' E	Fl.W. period 10s	185 56	27	White round metal tower; 70.	Visible 234° -099° . Fl.G. 4s 13m marks small harbor 4.5 miles N. Signal station.
13769 F 4603.04	Hou-Pi Hu Fishing Harbor.	21° 56.6' N 120° 44.7' E	Fl.(3)G. period 10s			White concrete tower.	
13769.5 F 4603.06	-N. side.	21° 56.6' N 120° 44.8' E	Fl.R. period 3s			White concrete tower.	
13770	Fang-liao Fishing Harbor.	22° 21.8' N 120° 35.4' E	Fl.R. period 4s			Concrete pillar.	F.Y. on white concrete water tower close E.
13776 F 4612	Liu-ch'iu Hsu.	22° 20.0' N 120° 22.0' E	L.Fl.W. period 8s fl. 2s, ec. 6s	291 89	14	White round concrete tower; 36.	Visible 226° -217° , obscured elsewhere.
13780 F 4610	-Breakwater, head.	22° 21.0' N 120° 23.0' E	Fl.R. period 4s	27 8	3	Red concrete column; 23.	Visible 138° -300° .
13784	<i>Ta-Lin-Pu Terminal Buoy No. 1.</i>	22° 30.2' N 120° 18.4' E	Fl.(2)W. period 15s fl. 1s, ec. 2s fl. 1s, ec. 11s			SBM.	Horn: 1 bl. ev. 20s.
13784.2	-No. 2.	22° 29.7' N 120° 17.2' E	Fl.(4)W. period 15s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 8s			SBM.	Horn: 1 bl. ev. 20s. Radar reflector.
13784.4	-No. 3.	22° 28.3' N 120° 17.4' E	Mo.(A)W. period 15s			SBM.	Radar reflector.
13784.6	-No. 4.	22° 28.8' N 120° 18.6' E	Fl.(2)W. period 15s fl. 1s, ec. 1s fl. 2s, ec. 11s			SBM.	
13786	Ta-lin p'u, N. breakwater, head.	22° 31.8' N 120° 19.5' E	Fl.W. period 3s	39 12	6	Steel post; 3.	
13786.1	-S. breakwater.	22° 31.8' N 120° 19.5' E	Fl.R. period 3s	39 12	4	Steel post; 3.	
KAO-HSUNG CHIANG:							
13788 F 4624.4	-S. entrance, N. breakwater, head.	22° 33.1' N 120° 18.0' E	Fl.(3)G. period 10s	59 18	15	Green square concrete tower; 42.	N. mole marked by three 2 F.G. (vert.) 6M lights.
	-RACON		Y(- • - -) period 60s		15		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TAIWAN							
13792 F 4624.42	-S. breakwater, head.	22° 32.9' N 120° 17.9' E	Fl.R. period 4s	59 18	14	Red square concrete tower; 43.	S. mole marked by three 2 F.R. (vert.) 6M lights. Radar reflector.
13793 F 4624.5	-Range, front.	22° 33.3' N 120° 19.8' E	F.R.G. (vert.)	131 40	5	Beacon, triangular daymark, point up.	
13793.1 F 4624.51	--Rear, 490 meters 079° 30' from front.	22° 33.3' N 120° 20.1' E	F.R.G. (vert.)	164 50	5	Beacon, triangular daymark, point down.	
13794 F 4621.52	-Container Terminal No. 1.	22° 36.6' N 120° 17.0' E	Q.R.		3		
13794.1 F 4621.5	-Dock No. 142 Range, front.	22° 36.8' N 120° 16.4' E	Q.R.		3		
13794.2 F 4621.51	--Rear.	22° 36.7' N 120° 16.5' E	Q.R.		3		
13796 F 4618	-Ch'i-hou Shan.	22° 36.9' N 120° 15.9' E	Fl.(4)W. period 30s fl. 0.4s, ec. 4.6s fl. 0.4s, ec. 4.6s fl. 0.4s, ec. 4.6s fl. 0.4s, ec. 14.6s	191 58	25	White octagonal brick tower; 50.	Visible 320° -158° . Traffic signals. Signal station.
13800 F 4620	-N. entrance, N. breakwater, head.	22° 37.2' N 120° 15.4' E	Iso.G. period 4s	48 15	16	Green round concrete column; 45.	
	-RACON		AA(• - • -) period 75s		15		
13804 F 4621	-S. breakwater, head.	22° 37.1' N 120° 15.4' E	Fl.R. period 6s	49 15	12	Red round concrete column; 46.	Radar reflector.
13806 F 4622	-Narrows, N. side.	22° 37.0' N 120° 16.0' E	F.W.G. (vert.)	42 13	5		2 F.G. (vert.) shown from W. end of N. side.
13807 F 4623.4	--S. side.	22° 36.9' N 120° 16.0' E	F.R.G. (vert.)	31 9	5		F.R. shown from W. end of S. side. 2 F.R. (vert.) shown from E. end of S. side.
13808 F 4625	Tso-ying.	22° 42.0' N 120° 15.0' E	Fl.W. period 6s	61 19	21		Aero Radiobeacon 5.5 miles NNE.
13812 F 4625.2	-S. breakwater, head.	22° 41.8' N 120° 15.1' E	Fl.R. period 4s	59 18	6		
13816 F 4625.4	-Spur, head.	22° 42.0' N 120° 15.0' E	Fl.R. period 5s	46 14	5		
TSO-YING:							
13820 F 4626	-Entrance Range, front.	22° 41.4' N 120° 16.5' E	F.R.	61 19	8		
13824 F 4626.1	--Rear, 585 meters 103° 48' from front.	22° 41.3' N 120° 16.8' E	F.G.	106 32	3		
13824.5 F 4626.2	-N. breakwater, head.	22° 43.5' N 120° 15.1' E	Fl.G. period 5s	39 12	3	Green square concrete post; 33.	
13825 F 4626.3	-Tug berth.	22° 49.1' N 120° 11.5' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	74 23	17	White round concrete tower; 65.	
13825.1 F 4626.4	-Breakwater, head.	22° 49.2' N 120° 11.4' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s	92 28	9	Red octagonal concrete tower; 69.	
13825.12 F 4626.43	-N. breakwater, head.	22° 49.1' N 120° 11.8' E	Fl.G. period 4s fl. 0.5s, ec. 3.5s	89 27	9	White octagonal concrete tower; 69.	
13825.2 F 4626.45	-E. breakwater, head.	22° 49.2' N 120° 12.4' E	Fl.Y. period 10s				

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TAIWAN							
13826 <i>F 4626.5</i>	-Unloading platform.	22° 48.7' N 120° 11.4' E	Mo.(U)W. period 12s	47 14	7	Metal pole on control tower.	Mo.(U)W. 12s mark dolphins 220 meters N. and 280 meters S. Horn: 1 bl. ev. 20s.
AN-P'ING-CHIANG:							
13828 <i>F 4628</i>	-N.	22° 59.5' N 120° 08.7' E	Fl.(3)W. period 15s	74 23	15	White steel square trellis tower; 72.	Visible 305° - 145°.
13829 <i>F 4629.24</i>	-Anping Harbor, N. outer breakwater, head.	22° 57.8' N 120° 08.9' E	Iso.G. period 3s	77 24	17	Green round concrete column; 74.	
13830	-Anping entrance, N. breakwater.	22° 58.2' N 120° 09.1' E	Fl.W. period 8s	20 6	8		
13832 <i>F 4629</i>	-Anping Harbor, N. breakwater.	22° 58.0' N 120° 09.3' E	Fl.W. period 6s fl. 1.5s, ec. 4.5s	52 16	8	White metal post; 42.	
13834 <i>F 4629.23</i>	-Anping Harbor, S. outer breakwater, head.	22° 57.6' N 120° 08.9' E	Iso.R. period 3s	77 24	13	Red octagonal concrete tower; 75.	
13836 <i>F 4629.2</i>	-Anping Harbor, S. breakwater.	22° 57.9' N 120° 09.4' E	Fl.R. period 6s fl. 1.5s, ec. 4.5s	52 16	8	Red metal post; 42.	
13836.5	--S. breakwater.	22° 57.7' N 120° 09.4' E	Fl.R. period 8s	20 6	8		
13837 <i>F 4629.3</i>	---S. wharf, No. 1.	22° 58.2' N 120° 09.8' E	2 F.R. (vert.)	33 10	5	White concrete pole.	
13837.2 <i>F 4629.35</i>	---No. 2.	22° 58.3' N 120° 09.4' E	2 F.R. (vert.)	33 10	5	White concrete pole.	
13837.4 <i>F 4629.4</i>	---No. 3.	22° 58.4' N 120° 09.5' E	F.R.	33 10	5	White concrete pole.	
13838 <i>F 4629.5</i>	--N. wharf, No. 1.	22° 58.2' N 120° 09.8' E	F.G.	47 14	5	Steel structure, white and green bands.	
13838.2 <i>F 4629.55</i>	---No. 2.	22° 58.3' N 120° 09.8' E	F.G.	47 14	5	Steel structure, white and green bands.	
13838.4 <i>F 4629.6</i>	---No. 3.	22° 58.3' N 120° 09.9' E	F.G.	47 14	5	Steel structure, white and green bands.	
13839	--N. Channel.	22° 58.5' N 120° 09.9' E	Fl.G. period 4s				Channel marked by Fl.G. 4s lights.
13840 <i>F 4630</i>	Kuo-sheng Kang.	23° 06.0' N 120° 02.2' E	Fl.(2)W. period 15s	112 34	16	White metal framework structure, black bands; 107.	Fl.W. 4s, Fl.R. 4s marks end of peninsula 1.3 miles NNE.
13844 <i>F 4658.4</i>	Wengangdui.	23° 27.2' N 120° 02.6' E	Fl.W. period 4s fl. 0.6s, ec. 3.4s	46 14	11	Black square metal framework tower; 52.	
13852 <i>F 4659.5</i>	Fong-Yuan.	23° 58.3' N 120° 19.5' E	Iso.W. period 10s	117 36	17	Octagonal tower, black and white stripes; 122.	
	RACON		Q(- - • -) period 75s		15		
13854 <i>F 4659.415</i>	Mai-liao Kang, S. breakwater.	23° 46.8' N 120° 09.7' E	Fl.R. period 3s	79 24	13	Red octagonal tower; 75.	F.R. 12m 10M light marks breakwater SE.
13855 <i>F 4659.412</i>	-W. breakwater.	23° 46.8' N 120° 09.1' E	Fl.G. period 3s	79 24	16	Green round concrete column: 73.	
	RACON		X(- • • -)				
13855.1 <i>F 4659.428</i>	-W. inner breakwater.	23° 47.2' N 120° 09.6' E	Oc.G. period 5s lt. 3s, ec. 2s	52 16	12	Green metal column; 43.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TAIWAN							
P'ENG-HU-LIEH-TAO:							
13856 <i>F 4658</i>	-Mu-t'ou Hsu.	23° 47.2' N 119° 36.0' E	Fl.W. period 20s	160 49	27	White round metal tower, black bands; 131.	
13858	-Hsiao ch'ih-chiao Range, front.	23° 35.6' N 119° 30.8' E	F.G.	66 20	3		
13858.1	--Rear, 371 meters 317° from front.	23° 35.8' N 119° 30.6' E	F.R.	85 26	3		
13860 <i>F 4654</i>	-Hai-kan Yen.	23° 35.0' N 119° 32.0' E	Fl.W. period 6s fl. 0.6s, ec. 5.4s	29 9	6	White metal framework tower; 25.	
13864 <i>F 4653</i>	-P' eng Hu Tao.	23° 34.4' N 119° 33.5' E	F.G.	89 27	7		
13868 <i>F 4653.2</i>	--Rear, 1200 meters 063° 30' from front.	23° 34.6' N 119° 34.0' E	F.R.	89 27	7		
13872 <i>F 4652</i>	-Yu-weng Tao.	23° 34.0' N 119° 28.0' E	L.Fl.(2)W. period 30s 2 fl. 8s, ec. 22s	199 61	25	White round metal tower; 36.	Partially obscured by islands. Horn: 1 bl. ev. 30s.
13876 <i>F 4651</i>	-Fou-Wen.	23° 32.3' N 119° 31.5' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	45 14	9	Red concrete tower.	
13878	-Chu-mu-shui Range, front.	23° 31.6' N 119° 34.9' E	F.G.	30 9	3		
13878.1	--Rear, 561 meters 137° from front.	23° 31.3' N 119° 35.1' E	F.R.	59 18	3		
13880 <i>F 4650</i>	-Ch'a-mou Hsu.	23° 32.1' N 119° 43.1' E	Fl.W. period 6s fl. 0.4s, ec. 5.6s	81 25	9	Octagonal brick structure, white and black stripes; 39.	Radar reflector
13884 <i>F 4640</i>	-Ch'u-t'ou Hsu.	23° 16.0' N 119° 40.0' E	L.Fl.W. period 12s fl. 2s, ec. 10s	220 67	21	White round concrete structure, black bands; 65.	
13888 <i>F 4642</i>	-Chi-mei Yu on, Ta Hsu, S. head.	23° 11.4' N 119° 25.8' E	Fl.(2)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 8s	134 41	11	White round concrete tower; 26.	Visible 228° -158° .
13892 <i>F 4646</i>	-Hua Hsu, island, W. side.	23° 24.0' N 119° 19.0' E	Fl.W. period 5s	212 65	10	White round concrete structure; 41.	
13892.3	Mai Liao Refinery.	23° 47.5' N 120° 09.8' E	Fl.R. period 4s				Fl.R. 4s marks S. breakwater 1.3 miles SSE.
13892.5	Chang Sheng.	24° 11.0' N 120° 25.5' E	Fl.R. period 4s				Marks wreck Chang Sheng. Lights on bow and stern.
13893 <i>F 4659.7</i>	Taichung Power Plant, S. training wall, head.	24° 13.0' N 120° 27.6' E	Fl.R. period 4s				Fl.R. 4s marks center of S. wall and head of N. training wall.
13896 <i>F 4660.15</i>	Taichung Kan.	24° 17.4' N 120° 31.4' E	Fl.(3)W. period 30s	203 62	27	White concrete tower; 205.	
13900 <i>F 4660.4</i>	Taichung Harbor.	24° 18.0' N 120° 29.2' E	F.G. period 4s	72 22	18	Green round concrete tower; 60.	
RACON					M(- -)	15	
13901 <i>F 4660.48</i>	-Entry Channel Range, front.	24° 17.7' N 120° 29.9' E	F.Y.	43 13	11		
13901.1 <i>F 4660.481</i>	--Rear, 500 meters 065° from front.	24° 17.8' N 120° 30.2' E	F.Y.	128 39	11		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TAIWAN							
13904 F 4660.6	-S. breakwater.	24° 17.4' N 120° 30.0' E	Fl.R. period 2s	69 21	14	Red round concrete tower; 65.	
	-RACON		F(••••)				
13906 F 4660.94	-Main Channel Range, front.	24° 17.0' N 120° 31.4' E	Dir.F.W.R.G.	147 45	17	Square steel tower; 138.	White light visible on range line only.
13907 F 4660.941	--Rear, 815 meters 114° 15' from front.	24° 16.8' N 120° 31.9' E	F.W.	230 70	10	Square steel tower; 220.	Strobe.
13908 F 4660.64	-Fishing harbor, outer breakwater, head.	24° 17.5' N 120° 30.6' E	Fl.G. period 6s fl. 0.6s, ec. 5.4s	29 9	8	Green round concrete column; 23.	
13909 F 4660.66	--Inner breakwater.	24° 17.5' N 120° 30.7' E	Fl.G. period 4s fl. 0.5s, ec. 3.5s	33 10	8	Green round concrete tower; 23.	
13909.5 F 4660.67	--E. inner breakwater.	24° 17.5' N 120° 30.8' E	F.W.	62 19		Yellow structure.	
13912 F 4660.7	-N. inner breakwater.	24° 17.3' N 120° 30.8' E	Fl.G. period 3s	42 13	10	White round concrete tower; 33.	
13916 F 4660.8	-S. inner breakwater.	24° 17.1' N 120° 30.7' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	66 20	10	Red round concrete tower; 33.	
13918 F 4660.92	-W. basin, E. arm.	24° 17.3' N 120° 30.9' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	26 8	8	Red round concrete tower; 23.	
13919 F 4660.9	--W. arm.	24° 17.3' N 120° 30.8' E	Fl.G. period 4s	49 15		Green round concrete tower.	
13920 F 4660.93	-Taichung Harbor Craft Basin, W. breakwater.	24° 17.2' N 121° 31.1' E	Fl.G. period 4s	26 8	8	Green round concrete column; 23.	
13920.1 F 4660.932	--E. breakwater.	24° 17.2' N 120° 31.1' E	Fl.R.	49 15	8		
13921.1 F 4660.675	-Collier Channel N. Range, front.	24° 17.4' N 120° 31.1' E	F.G.	75 23	9	Gray column, steel framework post.	
13921.11 F 4660.676	--Rear, 601 meters 021° 32' from front.	24° 17.7' N 120° 31.3' E	F.G.	141 43	9	Gray column, steel framework post.	
13921.2 F 4660.617	-Collier Channel S. Range, front.	24° 14.2' N 120° 29.8' E	F.G.	131 40	9	Gray column, steel framework post.	
13921.21 F 4660.618	--Rear, 864 meters 201° 32' from front.	24° 13.8' N 120° 29.6' E	F.G.	187 57	9	Gray column, steel framework post.	
13921.3 F 4660.614	-Coal Wharf Range, front.	24° 14.2' N 120° 29.0' E	F.G.	43 13	3	Gray column, steel framework post.	
13921.31 F 4660.615	--Rear, 100 meters 231° 30' from front.	24° 14.1' N 120° 29.0' E	F.G.	59 18	3	Gray column, steel framework post.	
13921.4 F 4660.62	-S. Pier Range, front.	24° 15.3' N 120° 30.5' E	F.G.	43 13	3	Gray column, steel framework post.	
13921.41 F 4660.621	--Rear, 100 meters 051° 30' from front.	24° 15.3' N 120° 30.5' E	F.G.	59 18	3	Gray column, steel framework post.	
13921.5 F 4660.61	-W. Pier Range, front.	24° 15.1' N 120° 29.6' E	F.G.	43 13	9	Gray column, steel framework post.	
13921.51 F 4660.611	--Rear, 116 meters 021° 30' from front.	24° 15.1' N 120° 29.6' E	F.G.	79 24	9	Gray column, steel framework post.	
13922 F 4660.63	China American Petrochemical Co. Ltd. E. AVIATION LIGHT.	24° 15.9' N 120° 29.8' E	Fl.W. period 1.5s	328 100			
13922.1 F 4660.635	-W. AVIATION LIGHT.	24° 15.9' N 120° 29.9' E	Fl.W. period 1.5s	246 75			

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TAIWAN							
13940 <i>F 4660.2</i>	Taichung Harbor, N. jetty.	24° 18.8' N 120° 31.2' E	Fl.(3)W. period 10s fl. 0.4s, ec. 0.9s fl. 0.4s, ec. 0.9s fl. 0.4s, ec. 7s	43 13	7	White round concrete tower, red bands; 39.	
13942	Tung-shiao, power plant, prohibited area.	24° 30.0' N 120° 39.3' E	2 Fl.R. (vert.) period 5s	36 11	3		Five 2 Fl.R. 5s (vert.) lights mark pipelines.
13944 <i>F 4661</i>	Pai-sha-t'un.	24° 34.0' N 120° 43.0' E	F.R.				
13948 <i>F 4661.5</i>	AVIATION LIGHT (Hsinchu).	24° 49.0' N 120° 56.0' E	Al.FI.W.G. period 9.5s W. fl. 1s, ec. 4s G. fl. 0.5s, ec. 4s		15		
13949 <i>F 4661.6</i>	Hsinchu, S. breakwater.	24° 51.1' N 120° 54.8' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s	45 14	4	Red round concrete column.	
13950 <i>F 4661.7</i>	-N. breakwater.	24° 51.2' N 120° 54.8' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	45 14	4	White round concrete column.	
13952 <i>F 4662</i>	Pai-sha-Chia (Hakusha Ko).	25° 02.5' N 121° 04.3' E	Al.FI.W.R. period 20s W. fl. 0.2s, ec. 9.8s R. fl. 0.2s, ec. 9.8s	122 37	W. 26 R. 23	White round brick tower; 82.	Visible 055° -235° . Partially obscured 075° -078° .
13960 <i>F 4664</i>	Tan-Shui Kang.	25° 10.6' N 121° 25.2' E	L.FI.W. period 8s fl. 2s, ec. 6s	59 18	17		Q.(5)R.G. 14m 7M marks observation post 1.8 miles W.
13960.05 <i>F 4663.2</i>	-Shoal Warning LT7.	25° 08.8' N 121° 19.8' E	Q.(2)W. period 5s fl. 0.4s, ec. 0.6s fl. 0.4s, ec. 3.6s	59 18	10	Black metal column.	
13960.1 <i>F 4663.4</i>	-N. Outer Breakwater, head.	25° 09.3' N 121° 21.5' E	Fl.G. period 5s fl. 1s, ec. 4s	56 17	12	Green round concrete tower; 52.	
	-RACON		T(-)				
13960.13 <i>F 4663.5</i>	--S. head.	25° 09.4' N 121° 22.3' E	Q.(2)G. period 4s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 2.5s	33 10	10	Green metal pole; 25.	
13960.6 <i>F 4663.6</i>	-SB5.	25° 09.3' N 121° 22.1' E	Fl.G. period 4s	39 12	12	Green pole.	
13960.61	-SB7.	25° 09.0' N 121° 22.3' E	Fl.R. period 5s	39 12	12	Red pole.	
13960.62 <i>F 4663.65</i>	-SB10.	25° 09.2' N 121° 22.7' E	Q.R.	39 12	12	Red pole.	
13961.9 <i>F 4664.5</i>	-Pa-li Ocean , Outfall pipeline.	25° 09.8' N 121° 24.6' E	F.R.		19	White round metal column; 61.	Visible 135° -145° .
13962 <i>F 4665.2</i>	-Fishing harbor, N. side.	25° 11.0' N 121° 24.3' E	Fl.G. period 4s		8		
13962.5 <i>F 4665</i>	--S. side.	25° 11.0' N 121° 24.4' E	Fl.R. period 4s		8		
13962.8 <i>F 4665.5</i>	--Inner entrance, N. side.	25° 11.0' N 121° 24.5' E	Fl.G. period 4s		8		
13962.9 <i>F 4665.4</i>	---S. side.	25° 11.0' N 121° 24.5' E	Fl.R. period 4s		8		
13964 <i>F 4666.5</i>	-N. side.	25° 10.2' N 121° 26.3' E	F.R.	59 18	9	Red square steel framework, red triangular daymark; 44.	

Section 9

Philippines and Pacific Coast of Russia

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PHILIPPINES							
13985 <i>F 2819</i>	Balintang Island.	19° 57.6' N 122° 08.5' E	Fl.W. period 5s		12		
13988 <i>F 2822</i>	Batan Island.	20° 22.0' N 121° 58.0' E	Fl.R.		10		
13990 <i>F 2822.5</i>	Basco.	20° 26.9' N 121° 57.9' E	Fl.R. period 4s		7	Concrete structure.	
13991 <i>F 2820</i>	Sabtang Island.	20° 20.4' N 121° 52.3' E	Fl.W. period 5s		7	Concrete structure.	
13991.5 <i>F 2819.5</i>	-Chavayan.	20° 17.2' N 121° 52.9' E	Fl.W. period 5s		12		
13992 <i>F 2823</i>	Amianan Island.	21° 07.0' N 121° 56.9' E	Fl.W. period 5s	65 20	15		Visible 200° -310°.
13996 <i>F 2720</i>	Arboledan Point.	18° 01.0' N 120° 28.9' E	Fl.R. period 5s	161 49	19	White concrete tower; 33.	
14000 <i>F 2722</i>	Cape Bojeador.	18° 30.8' N 120° 35.8' E	Fl.(3)W. period 5s	386 118	20	White octagonal tower and dwelling; 65.	Visible 014° -236°.
14002 <i>F 2723</i>	Dialao Point.	18° 37.8' N 120° 47.3' E	Fl.(4)W. period 20s			Fiberglass structure.	
14004 <i>F 2724</i>	Pata Point.	18° 37.3' N 121° 09.3' E	Fl.W. period 5s fl. 0.4s, ec. 4.6s	202 62	15	Small white dwelling; 21.	Visible 098° -299°.
14006 <i>F 2737</i>	Palanan Point.	17° 08.4' N 122° 30.5' E	Fl.W. period 5s			Fiberglass structure.	
14007 <i>F 2735</i>	Maconacon.	17° 23.0' N 122° 14.3' E	Fl.W. period 5s			Fiberglass structure.	
14008 <i>F 2728</i>	Linao Point.	18° 22.3' N 121° 35.8' E	Fl.W. period 5s	36 11	9	White metal tower and dwelling; 30.	Visible 104° -287°.
14009 <i>F 2728.5</i>	Aparri.	18° 21.7' N 121° 37.7' E	Fl.W. period 5s			Fiberglass structure.	
14012 <i>F 2729</i>	Port Irene.	18° 23.8' N 122° 07.6' E	Fl.G. period 5s		10	Concrete structure.	
14014 <i>F 2730.5</i>	Palawig.	18° 28.1' N 122° 08.6' E	Fl.W. period 5s		7	Concrete structure.	
14016 <i>F 2730</i>	Port San Vicente.	18° 31.0' N 122° 08.0' E	Fl.R. period 5s	31 9	7	White concrete pillar; 31.	
14020 <i>F 2732</i>	Cape Engano.	18° 34.9' N 122° 08.2' E	Fl.W. period 5s	327 100	18	Light gray tower and dwelling, white lantern, red roof; 47.	Visible 061° -272°.
14024 <i>F 2742</i>	Baler, on beach.	15° 45.0' N 121° 34.0' E	Fl.R. period 5s		7	White pyramidal concrete tower; 30.	
14024.6 <i>F 2743</i>	Maligaya.	14° 57.8' N 121° 34.0' E	Fl.W. period 5s		15		
14025 <i>F 2747.6</i>	Babaon River.	15° 01.7' N 121° 52.1' E	Fl.W. period 5s				
14026 <i>F 2747.5</i>	Polillo Island, Hook Bay.	14° 55.8' N 121° 48.7' E	Fl.(3)W. period 5s				

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(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PHILIPPINES							
14028 F 2746	Polillo Harbor Range, front, on beach.	14° 43.1' N 121° 56.1' E	F.R.	30 9	7	Post, white triangular daymark; 26.	
14032 F 2746.1	-Rear, 145° from front.	14° 43.0' N 121° 56.2' E	F.R.	57 17	9	Platform on church tower; 54.	
14036 F 2747	Burdeos, Polillo Island, E. side.	14° 51.1' N 121° 58.8' E	Fl.W. period 5s		7		
14036.4 F 2747.65	Bonifacio.	15° 02.7' N 121° 58.4' E	Fl.G. period 5s				
14036.5 F 2747.67	Bongliw.	15° 03.5' N 121° 55.8' E	Fl.W. period 5s	20 6	10	Concrete structure; 20.	
14037 F 2747.7	Buguitay.	14° 57.1' N 122° 03.7' E	Fl.W. period 5s			Concrete structure.	
14038 F 2747.8	Patnanongan Island.	14° 45.2' N 122° 13.8' E	Fl.G. period 5s				
14040 F 2748	Jamalig Island, NW side.	14° 42.3' N 122° 19.9' E	F.R.		6		Private.
14040.5 F 2747.9	-SW. point.	14° 41.9' N 122° 18.9' E	Fl.W. period 5s				
14040.7 F 2748.5	-S. side.	14° 41.2' N 122° 23.0' E	Fl.W. period 10s				
14044 F 2749	Dinahican Point.	14° 41.8' N 121° 43.8' E	Fl.W. period 5s		7	Concrete tower.	
14044.5 F 2749.2	Balobo.	14° 41.7' N 121° 40.3' E	Fl.W. period 7s		7	Concrete tower; 33.	
14045 F 2749.5	Puerto Real.	14° 40.3' N 121° 36.6' E	F.R.			Concrete tower; 33.	
14048 F 2766	Tailon Island.	14° 24.5' N 122° 40.0' E	Fl.W. period 5s	60 18	18	White concrete pillar; 30.	
14050 F 2767	Panganiban.	14° 18.7' N 122° 39.2' E	Fl.W. period 5s				
14051 F 2769	Paracale.	14° 17.2' N 122° 48.2' E	Fl.(2)W. period 5s			Fiberglass structure.	
14052 F 2764	Capalonga.	14° 20.0' N 122° 31.0' E	Fl.R. period 5s	32 10	18	White concrete tower; 28.	Visible 113° -152°.
14056 F 2750	Balliscan Island.	14° 14.7' N 121° 54.0' E	Fl.W. period 5s	55 17	12	White concrete pillar; 30.	
14060 F 2757	Mauban, on Malazor Point.	14° 12.0' N 121° 45.0' E	Fl.R. period 5s		10		
ALABAT ISLAND:							
14063 F 2755	-Villa Norte.	14° 08.2' N 122° 02.8' E	Fl.W. period 5s			Concrete structure.	
14064 F 2754	-On beach at Alabat.	14° 06.0' N 122° 00.0' E	Fl.R. period 5s	35 11	7	White concrete tower; 30.	Visible 346° -095°.
14068 F 2756	-Perez.	14° 11.7' N 121° 55.4' E	Fl.R. period 5s	33 10	5	White concrete tower; 30.	Visible 331° -057°.
14070 F 2756.5	Sangirin Point. Tawig.	14° 11.3' N 121° 54.6' E	Fl.W. period 5s		12		
14072 F 2758	Atimonan, E. side of river entrance.	14° 00.1' N 121° 55.8' E	Fl.W. period 3s	13 4		White metal pipe.	A F.R. light is shown about 19 miles ESE., near Hondagua.

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PHILIPPINES							
14074 <i>F 2759</i>	Gamau Point.	13° 57.5' N 122° 01.4' E	Fl.W. period 5s			7 Concrete structure.	
14076 <i>F 2760</i>	Silangan Pass.	13° 59.9' N 122° 10.9' E	Fl.W. period 5s	31 9	18	White concrete tower.	Visible 205° -271° and 038° -100°.
14080 <i>F 2762</i>	Hondaqua.	13° 56.8' N 122° 14.4' E	F.R.	148 45		Concrete beacon; 10.	
14084 <i>F 2772</i>	Canimo Island.	14° 07.7' N 123° 03.2' E	Fl.(2)W. period 10s	138 42	12	White concrete tower; 25.	Visible 341° -264°.
14088 <i>F 2774</i>	Cabusao.	13° 44.1' N 123° 06.8' E	Fl.W. period 5s	33 10	7	White metal framework tower; 26.	
14089 <i>F 2775</i>	Tarallo.	13° 43.7' N 123° 12.8' E	Fl.W. period 3s	39 12		Concrete structure.	
14090 <i>F 2775.5</i>	Tinambac.	13° 49.1' N 123° 19.4' E	F.R.			Green concrete tower.	
14092 <i>F 2778</i>	Ocata.	13° 59.0' N 123° 49.5' E	Fl.W. period 5s	125 38	12	White concrete tower; 33.	Visible 052° -296°.
14092.3 <i>F 2776</i>	Basot Island, N. point.	13° 58.0' N 123° 51.4' E	Fl.W. period 5s			Fiberglass structure.	
14093 <i>F 2778.5</i>	Gata.	13° 54.8' N 123° 48.8' E	Fl.(3)W. period 15s			Fiberglass structure.	
14095 <i>F 2779</i>	Colongcogong.	13° 43.5' N 123° 58.6' E	Fl.W. period 15s			Fiberglass structure.	
14096 <i>F 2784</i>	Sialat Point.	13° 39.8' N 124° 01.6' E	Fl.W. period 4s	355 108	15	White steel framework structure; 33.	Visible 323° -224°.
14100 <i>F 2786</i>	Calolbon.	13° 35.9' N 124° 05.8' E	Fl.R. period 10s	36 11	7	White concrete pillar; 30.	Visible 318° -087°.
14104 <i>F 2788</i>	Virac, about 435 meters W. of Pandamon Point.	13° 35.0' N 124° 14.0' E	Fl.R. period 5s	38 12	10	White concrete pillar; 24.	Visible 292° -018°.
14108 <i>F 2790</i>	Baras.	13° 39.3' N 124° 22.6' E	Fl.R. period 5s	70 21	7	White concrete tower; 30.	
14112 <i>F 2794</i>	Lolong Point.	13° 56.8' N 124° 21.3' E	Fl.W. period 5s fl. 0.2s, ec. 4.8s	184 56	22	White octagonal tower; 99.	Visible 192° -321°.
14114 <i>F 2782</i>	Tabugoc Cove.	14° 03.5' N 124° 14.0' E	Fl.(2)W. period 10s			Fiberglass structure.	
14116 <i>F 2780</i>	Pandan, on beach.	14° 03.2' N 124° 10.1' E	Fl.R. period 5s	35 11	12	White concrete tower; 30.	Visible 115° -196°.
14120 <i>F 2798</i>	Sabang, Lagonoy Gulf.	13° 43.4' N 123° 34.7' E	Fl.W. period 5s	52 16	10	White concrete tower; 30.	
14122 <i>F 2798.5</i>	Patitinan.	13° 33.5' N 123° 32.4' E	Fl.(2)W. period 5s				
14124 <i>F 2802</i>	Malinao Range, front.	13° 24.3' N 123° 42.8' E	F.R.	36 11	7	White concrete pillar; 24.	Visible 155° -275°.
14128 <i>F 2802.1</i>	-Rear, 1207 meters 238° 55' from front.	13° 24.0' N 123° 42.3' E	Fl.W. period 5s	60 18	7	Wooden framework tower.	
14129 <i>F 2800</i>	San Miguel Island.	13° 24.3' N 123° 45.8' E	Fl.(2)G. period 4s				
14129.4 <i>F 2813</i>	Bacacay.	13° 18.0' N 123° 47.6' E	Fl.W. period 5s	16 5			
14130 <i>F 2809.5</i>	Labcan Point, Batan Island.	13° 17.4' N 123° 58.8' E	Iso.W. period 4s				

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PHILIPPINES							
14132 <i>F 2810</i>	Port Sula.	13° 13.5' N 123° 52.2' E	Fl.R. period 5s	53 16	7	White concrete post; 7.	
14133 <i>F 2504.2</i>	Siramag Bay.	13° 19.7' N 123° 13.6' E	Fl.W. period 3s	16 5	6	White steel tower.	
14134 <i>F 2504</i>	Ragay Gulf, Laganac.	13° 20.5' N 123° 12.8' E	Fl.(3)W. period 10s			Fiberglass structure.	
14134.5 <i>F 2504.5</i>	-Salingogon.	13° 27.3' N 123° 09.1' E	Fl.W. period 5s			Fiberglass structure.	
14135 <i>F 2505</i>	-Pasacao.	13° 30.1' N 123° 02.1' E	Fl.(2)W. period 5s				
14135.3 <i>F 2505.3</i>	-Guinayangan.	13° 53.9' N 122° 27.0' E	Iso.G. period 3s			Fiberglass structure.	
14135.5 <i>F 2503.7</i>	-Bondoc Point.	13° 10.0' N 122° 35.7' E	Fl.(2)W. period 15s				
14136 <i>F 2808</i>	Ungay Point.	13° 10.7' N 124° 12.8' E	Fl.W. period 5s	307 94	17	White round metal tower; 33.	Visible 175° -047° .
14138 <i>F 2809</i>	Prieto Diaz.	13° 02.5' N 124° 11.7' E	Fl.W. period 15s				
14140 <i>F 2814</i>	Legaspi, Albay Gulf, N. of town.	13° 09.5' N 123° 45.2' E	Fl.R. period 5s	59 18	13	White steel framework tower; 51.	Visible 190° -345° .
14144 <i>F 2818</i>	Port Gubat.	12° 55.5' N 124° 07.7' E	Fl.W. period 5s	39 12	10	White metal tower; 33.	Visible 246° -323° .
14145 <i>F 2818.4</i>	Barcelona.	12° 52.1' N 124° 08.6' E	Fl.W. period 10s				
14146 <i>F 2818.8</i>	Calayan Island, S. point.	19° 14.7' N 121° 30.7' E	Fl.W. period 5s				
14148 <i>F 2488</i>	San Bernardino Island.	12° 45.2' N 124° 17.0' E	Fl.W. period 10s fl. 0.2s, ec. 9.8s	207 63	17	White concrete tower; 39.	
14150 <i>F 2547</i>	Balusingan Bay.	12° 38.2' N 124° 05.7' E	Fl.(2)W. period 10s				
14152 <i>F 2492</i>	Capul Island.	12° 28.9' N 124° 08.5' E	Fl.W. period 17s fl. 0.2s, ec. 16.8s	142 43	17	White tower; 39.	Visible 026° -319° .
14156 <i>F 2494</i>	Calantas Rock.	12° 30.6' N 124° 04.7' E	Fl.R. period 5s	33 10	10	White concrete tower; 28.	Visible 201° -209° and 232° - 111° .
14160 <i>F 2546</i>	Bulan.	12° 40.3' N 123° 52.4' E	Fl.R. period 5s	32 10	7	White concrete tower; 28.	Visible 355° -149° .
14164 <i>F 2536</i>	Bagatao Island.	12° 49.9' N 123° 47.5' E	Fl.W. period 5s	135 41	17	White round metal tower, dwelling; 30.	Visible seaward over an arc of 130° .
14168 <i>F 2538</i>	Sorsogon, Bagatao Island, W. head.	12° 50.1' N 123° 47.5' E	Fl.R. period 5s	43 13	10	Concrete tower; 23.	
14169 <i>F 2535.5</i>	Macalaya.	12° 52.8' N 123° 46.3' E	Fl.(2)W. period 10s			Fiberglass structure.	
14170 <i>F 2535</i>	-Pilar.	12° 53.4' N 123° 39.7' E	Fl.(3)G. period 3s			Fiberglass structure; 33.	
14172 <i>F 2544</i>	Casiguran.	12° 52.5' N 124° 00.5' E	Fl.W. period 5s	69 21	10	White concrete tower; 33.	Visible 097° -248° .
14176 <i>F 2540</i>	Castilla, Dolagnan River entrance, N. side.	12° 56.8' N 123° 52.9' E	Fl.R. period 5s	49 15	7	White concrete tower; 33.	Visible 203° -358° .

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PHILIPPINES							
14180 F 2534	Donsol, on E. bank of river, W. head.	12° 54.3' N 123° 35.5' E	Fl.R. period 5s	37 11	10	White wooden framework tower; 33.	Visible 332° -118° .
14182 F 2503.8	Cabarian Point.	13° 00.5' N 123° 19.3' E	Fl.W. period 10s	151 46	10	White metal tower; 16.	
14184 F 2580	Baltasar Island.	13° 13.7' N 121° 48.8' E	Fl.W. period 6s	417 127	23	White round steel tower; 62.	
14188 F 2584	Gasán, Tiguion River, S. side.	13° 19.6' N 121° 50.6' E	Fl.W. period 10s	37 11	8	White concrete tower; 32.	Visible 347° -130° except where obscured by Tres Reves Islands.
14192 F 2586	Boac, on beach at Laylay River.	13° 26.3' N 121° 49.0' E	Fl.R. period 5s	28 9	8	White concrete tower; 24.	
14196 F 2602	Tayabas River Entrance.	13° 54.0' N 121° 36.0' E	Fl.W. period 5s		10	White concrete tower; 29.	Visible 294° -027° .
14200 F 2588	Balanacan.	13° 32.0' N 121° 51.9' E	Fl.(2)W. period 15s	45 14	12	White concrete tower; 28.	Partially obscured by shore.
14204 F 2590	Santa Cruz Harbor, W. side.	13° 30.1' N 122° 03.0' E	Fl.W. period 5s	24 7	7	White concrete tower; 24.	Visible through both channels from seaward.
14208 F 2594	Catanauan.	13° 35.5' N 122° 19.2' E	Fl.R. period 5s	36 11	18	White concrete tower; 33.	Visible 346° -071° .
14210 F 2596	General Luna.	13° 41.2' N 122° 10.2' E	Fl.W. period 5s	49 15	7	Concrete structure.	
14212 F 2598	Macalelon River, entrance, N. side.	13° 45.0' N 122° 07.9' E	Fl.R. period 4s	48 15	8	White concrete tower; 30.	Visible seaward over an arc of 93° .
14216 F 2600	Pitogo.	13° 47.0' N 122° 05.2' E	Fl.R. period 5s	79 24	15	White concrete tower; 34.	Visible 328° -075° .
14218 F 2603	Locoloco Point.	13° 39.3' N 121° 25.2' E	Fl.(3)W. period 10s			Fiberglass beacon.	
14220 F 2604	Malabrigo Point.	13° 36.0' N 121° 15.8' E	Fl.(3)W. period 15s	184 56	20	White round tower on white dwelling, red roof; 56.	Visible 274° -134° .
14221 F 2604.2	Verde Island, NE. point.	13° 34.4' N 121° 04.7' E	Fl.W. period 3s		10		
14222 F 2604.6	Arenas Point.	13° 37.2' N 121° 04.7' E	Fl.W. period 5s		10	Concrete beacon.	
14224 F 2607	Malajibomanoc Islet.	13° 37.7' N 120° 57.9' E	Fl.(3)W. period 15s	44 13	10	White concrete tower; 32.	Visible 133° -088° .
14226 F 2604.8	Matoca Point.	13° 38.0' N 121° 02.1' E	Fl.W. period 8s		10		
14227 F 2605	-Shell Refinery Wharf Range, front.	13° 43.5' N 121° 03.3' E	Q.R.			Red tower, yellow bands.	
14227.1 F 2605.1	-Rear, 350 meters 141° from front.	13° 43.2' N 121° 03.6' E	F.R.			Red tower, yellow bands.	
14228 F 2605.4	Batangas, on wide portion of pier.	13° 45.3' N 121° 02.5' E	Fl.W. period 5s	30 9	7	Concrete beacon; 10.	
14229 F 2604.9	-Building.	13° 45.3' N 121° 02.6' E	Fl.W. period 3s	39 12	10	Beacon on PPA building.	
14232 F 2606.6	Mainaga.	13° 45.6' N 120° 57.3' E	Fl.G. period 5s	83 25	7	Concrete beacon; 11.	
14234 F 2607.5	Mabini.	13° 45.7' N 120° 55.6' E	Fl.W. period 5s				
14236 F 2608	Lemery (Taal), 27 meters from beach.	13° 52.5' N 120° 54.7' E	Fl.(2)W.	29 9	7	White concrete column; 24.	Obscured by trees.

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PHILIPPINES							
14240 <i>F 2610</i>	Balayan, on beach.	13° 56.0' N 120° 44.0' E	F.R.	36 11	7	White frame structure; 33.	Obscured by trees.
14244 <i>F 2614</i>	Cape Santiago.	13° 46.3' N 120° 39.2' E	Fl.(2)W. period 10s	89 27	11	White round metal tower, dwelling; 51.	Visible 252° -150° .
14248 <i>F 2616</i>	Golo Island.	13° 37.7' N 120° 25.1' E	Fl.W. period 7s	186 57	18	Concrete tower; 36.	Visible 185° -096° .
14252 <i>F 2618</i>	Tilic.	13° 49.0' N 120° 12.0' E	Fl.R. period 5s		7	Concrete tower; 32.	Visible 165° -237° .
14256 <i>F 2620</i>	Cabra Island.	13° 53.4' N 120° 01.3' E	Fl.(2)W. period 10s	216 66	22	White square brick tower, rectangular dwelling; 67.	Visible 320° -253° .
14260 <i>F 2624</i>	Fortune Island, summit.	14° 03.5' N 120° 29.4' E	Fl.W. period 10s	415 126	10	White concrete tower; 30.	
14261 <i>F 2615</i>	Balatoc, on reef.	13° 50.4' N 120° 36.3' E	Fl.W. period 5s			Concrete structure.	
14262 <i>F 2626</i>	Nasugbu.	14° 05.0' N 120° 37.3' E	Fl.G. period 5s		7		
14264 <i>F 2632</i>	La Monja Island.	14° 22.8' N 120° 31.3' E	Fl.W. period 5s	128 39	9	Concrete - Wooden platform.	
MANILA BAY:							
14268 <i>F 2630</i>	-Mariveles, at foot of pier.	14° 26.0' N 120° 29.0' E	Fl.(2)G. period 10s	40 12	7	Concrete tower; 36.	
14270 <i>F 2631</i>	-Sisiman, on Gorda Point.	14° 25.4' N 120° 31.1' E	Fl.W. period 3s		7	Concrete tower; 36.	
14272 <i>F 2634</i>	-Corregidor Island.	14° 22.8' N 120° 34.5' E	Fl.(3)W. period 20s	633 193	23	White round tower, dwelling surrounds base; 48.	Obscured in North Channel by hills 110° -192° .
14274 <i>F 2634.5</i>	-Calungpang Point.	14° 16.5' N 120° 37.7' E	Fl.G. period 5s				
14276 <i>F 2635</i>	--El Fraile.	14° 18.4' N 120° 37.8' E	Fl.W. period 5s		10		
14280 <i>F 2635.5</i>	-Puerto Azul.	14° 17.0' N 120° 40.9' E	Fl.G. period 5s				
14284 <i>F 2643</i>	San Nicolas Shoals.	14° 26.3' N 120° 45.8' E	Fl.R. period 5s	36 11	7		
14286 <i>F 2645</i>	Cavite City.	14° 28.7' N 120° 53.4' E	Fl.G. period 5s				
14286.2 <i>F 2645.9</i>	-Canacao Bay, Fort San Felipe.	14° 28.9' N 120° 55.3' E	Fl.(2)R. period 5s	16 5	3	Concrete pile beacon.	
14287 <i>F 2645.5</i>	--CBB Wharf.	14° 29.8' N 120° 55.0' E	Fl.R. period 5s				
14287.3 <i>F 2645.8</i>	--San Antonio.	14° 29.4' N 120° 54.4' E	Fl.(2)R. period 3s	36 11			
14288 <i>F 2647</i>	-- Sangley Point AVIATION LIGHT.	14° 29.8' N 120° 55.0' E	Al.W.G. period 10s	120 37	15	Tower; 108.	Oc.R. 2s 47m on radio mast 0.8 mile SW.
14288.1 <i>F 2647.2</i>	--Heracleo Alano Naval Base.	14° 29.9' N 120° 55.2' E	Fl.(2)R. period 5s	16 5	3	Concrete pile beacon.	
14292 <i>F 2648</i>	-AVIATION LIGHT Manila International Airport.	14° 31.0' N 121° 01.0' E	Al.W.G. period 10s	180 55	10	Concrete water tower; 134.	

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PHILIPPINES							
-Manila Harbor:							
14296 <i>F 2662</i>	--Yacht basin entrance, jetty spur, head.	14° 33.8' N 120° 58.8' E	Fl.R. period 5s	35 11	7	White concrete column; 26.	
14300 <i>F 2663</i>	--Detached jetty, SW. head.	14° 33.8' N 120° 58.9' E	Fl.(3)G. period 10s	23 7	7	Gray concrete pyramid; 13.	
14304 <i>F 2650</i>	--Napindan, outlet of Pasig River from Laguna de Bay.	14° 31.3' N 121° 06.9' E	Fl.R. period 5s	30 9	7	White concrete pillar; 30.	
14308 <i>F 2660</i>	S. breakwater, S. head.	14° 34.0' N 120° 58.0' E	Fl.G. period 5s	24 7	8	White concrete pillar; 18.	
14312 <i>F 2660.2</i>	-N. head.	14° 34.3' N 120° 57.4' E	Fl.R. period 5s	36 11	8	White metal column; 36.	
14316 <i>F 2654</i>	W. breakwater, S. head.	14° 34.4' N 120° 57.3' E	Fl.G. period 5s	40 12	8	White steel round tower on concrete base, black bands; 34.	
14320 <i>F 2653</i>	--Custom House.	14° 35.2' N 120° 58.0' E	Fl.R. period 5s	198 60	10	Tower on building.	Visible 322° -130° .
14321 <i>F 2653.5</i>	HPCG Wharf.	14° 34.9' N 120° 58.4' E	Fl.W. period 10s	105 32			
14324 <i>F 2669</i>	-- Pasig River.	14° 35.9' N 120° 57.5' E	Fl.W. period 5s	49 15	15	White round tower, dwelling; 46.	
14328 <i>F 2670</i>	--Entrance, N. side of International Port Basin.	14° 36.4' N 120° 56.0' E	Fl.G. period 5s	39 12	8		
14332 <i>F 2670.5</i>	--Entrance, S. side of International Port Basin.	14° 36.2' N 120° 56.0' E	Fl.R. period 5s	43 13	8		
14334 <i>F 2670.8</i>	--N. breakwater, head.	14° 37.1' N 120° 56.6' E	Fl.R. period 5s		6		
MANILA BAY:							
-Manila Harbor:							
14334.8 <i>F 2642.6</i>	--Bulacan River.	14° 42.1' N 120° 52.1' E	Fl.W. period 5s				
14335 <i>F 2642.4</i>	--Pamarauan.	14° 45.4' N 120° 48.9' E	Fl.(2)W. period 8s	33 10		Metal structure; 10.	
14335.6 <i>F 2642.2</i>	--Binangbang River.	14° 45.5' N 120° 45.0' E	Fl.W. period 5s	33 10			
14336 <i>F 2641</i>	--Pugad River.	14° 45.7' N 120° 44.5' E	Fl.W. period 5s	36 11			
14336.2	--Hagonoy River.	14° 46.2' N 120° 41.1' E	Fl.W. period 5s				
14340 <i>F 2640</i>	-Luzon Point, pier, head.	14° 32.0' N 120° 36.0' E	Fl.R.				
14344 <i>F 2636</i>	-Lokanin Point, dolphin No. 1.	14° 28.0' N 120° 36.0' E	Fl.W.	19 6		Black square daymark, green reflective border on pile.	Occasional. Radar reflector.
14352 <i>F 2639</i>	--No. 2B Range, front.	14° 29.0' N 120° 36.0' E	Fl.G.	63 19		On oil tank.	Occasional.
14356 <i>F 2639.1</i>	---Rear, No. 2A, about 105 meters 285° 12' from front.	14° 29.0' N 120° 36.3' E	Fl.G.	85 26		On oil tank.	Occasional.

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PHILIPPINES							
14360 <i>F 2672.8</i>	Cabayoc Point.	14° 37.0' N 120° 22.0' E	Oc.R., F.R. (vert.) period 2s lt. 1.5s, ec. 0.5s			Skeleton tower.	
SUBIC BAY:							
14364 <i>F 2673</i>	-Sueste Point.	14° 45.1' N 120° 11.3' E	Fl.W. period 5s	207 63	20	White round metal tower, dwelling, red roof; 30.	Visible 216° -048° .
14366 <i>F 2675.8</i>	-Grande Island.	14° 46.5' N 120° 13.4' E	Fl.(2)W. period 10s		12	White concrete tower.	
14368 <i>F 2673.4</i>	-Ilanin Bay.	14° 46.0' N 120° 15.2' E	Dir.Iso.W. period 6s	50 15	8	Column on platform, red and white checkered diamond.	Intensified bearing 141° .
14372 <i>F 2674</i>	-Cubi point AVIATION LIGHT.	14° 48.0' N 120° 15.9' E	Al.Fl.W.G.				
14372.5 <i>F 2675.4</i>	-POL Pier.	14° 48.5' N 120° 17.6' E	Fl.R. period 5s				
14372.8 <i>F 2675.3</i>	-Rivera Wharf.	14° 48.8' N 120° 17.3' E	Fl.R. period 5s				
14374 <i>F 2675.45</i>	-Marine Terminal Approach, SE.	14° 49.0' N 120° 17.6' E	Fl.R. period 5s				
14374.1 <i>F 2675.46</i>	--NW.	14° 49.0' N 120° 17.6' E	Fl.R. period 5s				
14374.7 <i>F 2675.5</i>	-Yacht Club, West.	14° 49.2' N 120° 17.4' E	Fl.G. period 4s				
14374.8 <i>F 2675.52</i>	--East.	14° 49.2' N 120° 17.5' E	Fl.R. period 4s				
14376 <i>F 2675</i>	-Kalaklan Point.	14° 49.5' N 120° 16.0' E	Fl.G. period 6s fl. 1s, ec. 5s	77 23		White concrete tower; 32.	Visible 11 miles when bearing 051° .
14377 <i>F 2676</i>	-Mayagna Island.	14° 49.9' N 120° 14.1' E	Fl.G. period 6s			Concrete tower.	
14380 <i>F 2680</i>	Capones.	14° 54.9' N 120° 00.5' E	Fl.(3)W. period 5s	243 74	22	White concrete tower on dwelling; 56.	Visible 302° -243° .
14381 <i>F 2677</i>	Botolan.	15° 14.0' N 120° 00.7' E	Fl.(3)W. period 15s				
14382 <i>F 2681</i>	Scarborough Reef.	15° 07.6' N 117° 48.7' E	Fl.W. period 5s		15		
14384 <i>F 2682</i>	Palauig Point.	15° 26.0' N 119° 54.0' E	Fl.(2)W. period 10s	89 27	12	White steel framework tower; 29.	Visible 330° -180° .
14388 <i>F 2684</i>	Hermana Mayor Island.	15° 47.5' N 119° 47.8' E	Fl.W. period 5s	157 48	20	White concrete tower; 29.	Visible 340° -165° .
14390 <i>F 2686</i>	Cabaongan.	16° 00.4' N 119° 45.7' E	Fl.(3)W. period 15s			Fiberglass structure.	
14391 <i>F 2686.6</i>	Sabangan Point.	16° 08.0' N 119° 46.6' E	Fl.G. period 5s		10	Concrete structure.	
14392 <i>F 2688</i>	Cape Bolinao.	16° 18.5' N 119° 47.1' E	Fl.(2)W. period 10s	292 89	22	White round concrete tower; 89.	Visible 017° -215° .
14396 <i>F 2690</i>	Bolinao Harbor.	16° 22.7' N 119° 54.8' E	Fl.W. period 5s	85 26	15	White concrete tower, white square daymark; 44. Floodlit.	
14396.2 <i>F 2690.5</i>	Anda.	16° 18.8' N 120° 00.8' E	Fl.G. period 5s			Fiberglass structure.	

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PHILIPPINES							
14397 F 2689	Silaqui Island.	16° 26.7' N 119° 55.4' E	Fl.(2)W. period 10s			Fiberglass structure.	
14398 F 2691	Lucap.	16° 11.7' N 120° 00.1' E	Fl.G. period 5s		10		
14399 F 2692	Portuguese Point.	16° 04.5' N 120° 06.7' E	Fl.R. period 5s		12	Concrete mast; 33.	
14400 F 2694	Dagupan.	16° 04.6' N 120° 20.5' E	Fl.W. period 5s	47 14	15	White concrete house; 16.	
14404	AVIATION LIGHT, about 914 meters E. of Dagupan.	16° 04.0' N 120° 21.0' E	Fl.R.				
14405 F 2696	Damortis.	16° 16.3' N 120° 23.6' E	Fl.R. period 5s	39 12	10	Concrete tower; 33.	
14406 F 2697	Santa Rita.	16° 21.3' N 120° 20.4' E	Fl.R. period 5s		7		
14408 F 2698	San Fernando Point.	16° 36.9' N 120° 16.8' E	Fl.(2)W. period 10s	107 33	20	White round metal tower; 27.	
14412 F 2702	San Fernando Range, front.	16° 37.0' N 120° 18.7' E	Fl.G.	21 6	7	Orange pole, orange triangular daymark, black stripe.	Difficult to distinguish when unlit.
14416 F 2702.1	-Rear, about 640 meters 144° 36' from front.	16° 36.7' N 120° 18.9' E	Fl.G.	110 34	7	Orange pole, triangular daymark, point down.	Difficult to distinguish when unlit.
14420 F 2704	Carlatan Lagoon.	16° 39.0' N 120° 19.0' E	Fl.W.		4	Conspicuous tower.	<i>Reported destroyed (Oct. 1984).</i>
14424 F 2705	Darigayos Point.	16° 49.2' N 120° 20.3' E	Fl.G. period 5s	33 10	12	Concrete structure.	
14428 F 2708	Tagudin NW. of town.	16° 57.0' N 120° 26.0' E	Fl.(2)R. period 5s	26 8	7	White concrete tower; 24.	
14432 F 2712	Candon, on beach.	17° 12.2' N 120° 25.0' E	Fl.R. period 5s	48 15	7	White concrete structure.	Visible 350° -123° .
14434 F 2713	Apatot.	17° 19.9' N 120° 27.6' E	Iso.R. period 5s	32 10			
14436 F 2714	Pandan, on beach near town.	17° 31.9' N 120° 22.2' E	Fl.G. period 5s	41 12	9	White concrete tower; 25.	Visible 325° -120° .
14438 F 2715	Puropingit.	17° 41.3' N 120° 21.3' E	Fl.W. period 10s			Fiberglass structure.	
14440 F 2716	Salomangue.	17° 46.5' N 120° 25.5' E	Fl.R. period 5s	33 10	15	White framework tower; 30.	Visible 058° -114° .
14442	Cabangtalan.	17° 51.3' N 120° 26.8' E	Fl.W. period 5s				
14448 F 2568	Cape Calavite.	13° 26.0' N 120° 18.0' E	Fl.W. period 5s	137 42	18	White round steel tower; 62.	Visible 349° -203° .
14450 F 2569	Tubili Point.	13° 13.6' N 120° 31.5' E	Fl.(4)W. period 20s				
14452 F 2560	Escarceo Point.	13° 31.3' N 120° 59.5' E	Fl.W. period 10s	136 41	18	White concrete house; 47.	Visible 112° -020° .
14456 F 2562	Port Galera.	13° 30.8' N 120° 57.6' E	Fl.R. period 3s	60 18	7	White triangular beacon, black stripe; 10.	
14460 F 2564	Varadero Bay.	13° 30.1' N 120° 57.3' E	Fl.G. period 5s	85 26	7	White concrete column; 26.	
14462 F 2555	Herrera.	13° 14.3' N 121° 25.2' E	Fl.W. period 5s	151 46	6	Metal pipe with platform; 26.	

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PHILIPPINES							
14464 <i>F 2558</i>	Calapan, Government Dock, end.	13° 26.0' N 121° 12.0' E	Fl.W. period 5s	36 11	10	White concrete tower; 24.	Visible 071° -198° .
14465 <i>F 2566</i>	Wawa.	13° 27.8' N 120° 45.0' E	Fl.W. period 5s		12	Concrete structure.	
14466 <i>F 2556</i>	Sta Cruz.	13° 18.7' N 121° 20.0' E	Fl.R. period 10s			Fiberglass structure.	
14467 <i>F 2554.5</i>	Tuntung Point.	13° 09.4' N 121° 26.3' E	Fl.(2)W. period 5s	10 3		Metal pipe on white platform; 10.	
14468 <i>F 2554</i>	Dumali Point.	13° 07.3' N 121° 33.2' E	Fl.(2)W. period 10s	173 53	20	White round steel tower, dwelling with red roof; 62.	Visible 132° -357° .
14469 <i>F 2553</i>	Bugol Point.	13° 04.0' N 121° 31.5' E	Fl.W. period 5s		3		
14470 <i>F 2551</i>	Dayugan Point.	12° 36.5' N 121° 33.3' E	Fl.(3)W. period 15s			Fiberglass structure.	
14472 <i>F 2550</i>	Bongabong.	12° 45.0' N 121° 29.3' E	Fl.W. period 10s	42 13	9	White fiberglass tower; 30.	Visible 182° -309° .
14472.5 <i>F 2549.5</i>	Bansud, on Bonsod Point.	12° 51.6' N 121° 29.3' E	Fl.W. period 5s			Concrete structure.	
MAESTER DE CAMPO ISLAND:							
14473 <i>F 2532</i>	-Tunggo Point.	12° 54.3' N 121° 43.3' E	Fl.W. period 10s			Concrete structure.	
14474 <i>F 2531</i>	-Port Concepcion.	12° 54.1' N 121° 43.4' E	Fl.R. period 5s		12	Concrete structure.	
14475 <i>F 2533</i>	-Mahaba Point.	12° 56.0' N 121° 41.0' E	Fl.W. period 7s	33 10	12	White metal and fiberglass tower; 33.	
14475.4 <i>F 2549.3</i>	Balete.	12° 54.5' N 121° 28.8' E	Fl. R. period 3s			Metal structure.	
14476 <i>F 2552</i>	Pinamalayan, on beach at town.	13° 02.3' N 121° 29.5' E	Fl.R. period 5s		7	White metal and fiberglass tower; 33.	Visible 231° -357° .
14477 <i>F 2287.75</i>	Sibolo Island.	12° 05.8' N 121° 34.6' E	Fl.W. period 10s	184 56	10	White metal tower; 33.	
14478 <i>F 2287.7</i>	Alegria.	12° 00.9' N 121° 24.1' E	Fl.W. period 5s	361 110	10	White metal tower; 33.	
14480 <i>F 2576</i>	Ambulong Island.	12° 12.6' N 121° 00.7' E	Fl.W. period 5s	446 136	21	White steel framework structure; 53.	Visible 292° -160° . Structure obscured by trees.
14484 <i>F 2575</i>	Caminawit Point.	12° 20.0' N 121° 05.2' E	Fl.R. period 5s	33 10	7	White concrete tower.	F.R. 110 ft. light shown from tower about 1.6 miles NW.
14486 <i>F 2574.5</i>	Bantac Island.	12° 12.8' N 120° 23.4' E	Fl.(3)W. period 10s				
14488 <i>F 2570</i>	Sablayan Point.	12° 49.8' N 120° 45.9' E	Fl.(3)W. period 10s	157 48	9	Concrete tower; 38.	Visible 344° -175° .
14492 <i>F 2574</i>	Apo Island.	12° 39.8' N 120° 24.8' E	Fl.W. period 10s	115 35	17	White tower.	
14494 <i>F 2173</i>	Decabaito Island.	11° 38.1' N 119° 58.1' E	Fl.(2)W. period 3s			Fiberglass tower.	
14496 <i>F 2174</i>	Culion Island, fort at N. point of entrance to Culion.	11° 53.5' N 120° 01.5' E	Fl.R. period 5s	115 35	7	Pole on bastion of fort; 11.	Visible 154° -293° .
14497 <i>F 2176</i>	Delian Island.	11° 49.7' N 120° 18.6' E	Mo.(A)W. period 6s				

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PHILIPPINES							
14497.2 F 2179.2	Coron Harbor, Coron Point.	11° 59.1' N 120° 13.3' E	Fl.W. period 5s				
14497.4 F 2180	-On reef.	11° 59.1' N 120° 12.6' E	Fl.R.	30 9			
14498 F 2287.5	Caluya Island.	11° 54.7' N 121° 34.7' E	Fl.(2)W. period 15s			Fiberglass structure.	
14498.5 F 2287.4	Dinago Point.	11° 50.3' N 121° 25.0' E	Fl.W. period 5s			Metal and fiberglass structure.	
14499 F 2287.2	Malaqui Island.	11° 51.7' N 121° 17.6' E	Fl.W. period 10s		10	White metal and fiberglass tower; 33.	
14500 F 2288	Maniguin Island.	11° 36.4' N 121° 41.1' E	Fl.(2)W. period 10s	191 58	20	White round masonry tower; 98.	
14504 F 2287	Manamoc Island, W. side.	11° 18.5' N 120° 40.5' E	Fl.(2)W. period 10s	200 61	10	Concrete tower; 39.	
14506 F 2286.5	Agutaya Island.	11° 08.8' N 120° 56.4' E	Fl.W. period 5s		8	Concrete pole.	
14508 F 2286	Cuyo Island, pier on W. side.	10° 51.2' N 121° 00.3' E	Fl.(2)W. period 10s	42 13	7	Concrete tower; 26.	
14512 F 2338	Manucan Islet.	9° 38.5' N 121° 20.8' E	Fl.W. period 5s	70 21	14	Octagonal concrete column.	
14512.1 F 2339	Cagayancillo.	9° 34.8' N 121° 12.1' E	Fl.(2)W. period 5s				
14513 F 2172	Palawan, Tarumpitao.	9° 02.8' N 117° 38.8' E	Fl.(2)W. period 10s			Red mast, white bands; 121.	
14514 F 2171	Malanut Bay, Quezon.	9° 14.4' N 117° 59.7' E	Fl.W. period 5s fl. 0.7s, ec. 4.3s	50 15	9	White fiberglass tower; 29.	
14514.7 F 2169	Taytay.	10° 49.7' N 119° 30.6' E	Fl.W. period 5s	30 9	9	Fiberglass structure.	
14515 F 2170	Cagnipa Island.	10° 30.5' N 119° 04.4' E	Fl.(2)W. period 6s				
14516 F 2168	Langoy Island.	10° 29.7' N 119° 59.6' E	Fl.W. period 5s	364 111	16	White round metal tower and dwelling; 36.	
14516.8 F 2169.25	Lalutaya.	11° 21.8' N 119° 24.7' E	Fl.W. period 5s			Fiberglass structure.	
14517 F 2169.5	Barbacan Point.	10° 19.1' N 119° 21.0' E	Fl.W. period 5s		9	Fiberglass structure; 30.	
14518 F 2166	Bold Point.	10° 01.7' N 119° 08.7' E	Fl.R. period 5s				
14519 F 2167	Camungyan Island.	10° 09.3' N 118° 45.9' E	Fl.(3)W. period 15s	16 5	17		
14520 F 2164	Puerto Princesa, Tidepole Point.	9° 43.9' N 118° 43.9' E	Fl.R. period 5s	43 13	10	White tower; 25.	Visible 285° -326° . 2 F.R. (vert.) on radio mast 550 meters NE. R. Lts. on water tank 0.8 mile NW.
14524 F 2163	-Bancaobancaon Point.	9° 43.4' N 118° 46.1' E	Fl.(3)W. period 5s	35 11	15	White concrete tower; 35.	Visible 225° -080° except where obscured by vegetation.
14526 F 2162	Calver Point.	9° 21.5' N 118° 32.2' E	Fl.W. period 5s				
14527 F 2161	Panacan.	9° 14.7' N 118° 24.4' E	Fl.R. period 5s				

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PHILIPPINES							
14527.5 <i>F 2160.5</i>	Pescado Point.	8° 58.0' N 118° 02.6' E	Fl.W. period 5s				
14528 <i>F 2340</i>	Tubbataha Reefs.	8° 44.9' N 119° 49.2' E	Fl.W. period 5s		15	White round stone structure, white square building.	
14532 <i>F 2160</i>	Sir J. Brooke Point.	8° 46.2' N 117° 50.2' E	Fl.W. period 5s	35 11	15	Pole on SE. corner of block house; 15.	Visible seaward over arc of 180°.
14534 <i>F 2158</i>	Comiran Island.	7° 55.0' N 117° 13.1' E	Fl.W. period 5s		7		
14536 <i>F 2156</i>	Espina Point.	7° 59.6' N 117° 04.4' E	Fl.W. period 5s	131 40	15	White concrete tower, dwelling; 33.	Visible 190° -336°.
14540 <i>F 2152</i>	Cape Melville.	7° 49.2' N 117° 00.0' E	Fl.W. period 5s	296 90	20	Yellow octagonal masonry tower, white lantern, detached dwelling; 90.	Visible 245° -150°.
14542 <i>F 2159</i>	Mangsee Island.	7° 30.5' N 117° 18.3' E	Fl.W. period 5s			Metal structure.	
14544 <i>F 2142</i>	Tandotao Point, on Cagayan Sulu Island.	6° 58.1' N 118° 31.9' E	Fl.W. period 5s	387 118	12	White concrete tower; 32.	
14548 <i>F 2520</i>	Apunan Point.	12° 28.6' N 122° 17.1' E	Fl.W. period 10s	97 30	17	Steel framework tower, white dwelling; 62.	Visible 264° -133°.
14550 <i>F 2519</i>	Calabago Point.	12° 33.2' N 122° 19.2' E	Fl.W. period 7s				
ROMBLON HARBOR:							
14552 <i>F 2516</i>	-Binagon Point, reef, head.	12° 34.8' N 122° 15.8' E	Fl.G. period 5s	15 5	7	Post on square concrete beacon; 16.	
14556 <i>F 2517</i>	-Agbatan Point, reef, head.	12° 35.0' N 122° 15.8' E	Fl.R. period 5s		7		Only shown until 2200 hours.
14560 <i>F 2514</i>	-Sabang Point, 274 meters from extremity.	12° 35.6' N 122° 15.9' E	Fl.W. period 5s	116 35	5	White concrete tower with dwelling S. of tower; 16.	Visible in approaching Romblon through all three channels. Obscured on E. side of N. channel at 197°.
14564 <i>F 2527.8</i>	Nalumsan Point.	12° 34.1' N 122° 08.2' E	Fl.W. period 5s		7	Concrete tower.	
14566 <i>F 2528.5</i>	Biaringan Island.	12° 37.7' N 122° 09.8' E	Fl.(2)W. period 10s			Fiberglass structure.	
14568 <i>F 2529</i>	Gorda Point.	12° 39.7' N 122° 09.1' E	Fl.(3)W. period 15s	212 65	22	White metal framework tower and dwelling; 62.	Visible 110° -333°, except where obscured by Guindauahan Island.
14572 <i>F 2530</i>	Simara Island.	12° 47.9' N 122° 01.1' E	Fl.W. period 5s	66 20	16	White concrete tower; 32.	Visible 309° -215°.
14576 <i>F 2528</i>	Carmen Bay.	12° 37.0' N 122° 07.2' E	Fl.W. period 5s	36 11	7	White concrete tower; 33.	Visible 262° -317°.
14578 <i>F 2523</i>	Bantiano Point.	12° 25.2' N 121° 59.3' E	F.R.			Concrete tower; 33.	
14580 <i>F 2524</i>	Tablas Island, on beach at Odiongán.	12° 24.2' N 121° 58.9' E	Fl.R. period 5s	32 10	7	White concrete tower; 30.	Visible 096° -194°.
14582 <i>F 2525</i>	Guinawayan.	12° 17.6' N 121° 55.6' E	Fl.W. period 7s				
14584 <i>F 2526</i>	Looc Reef.	12° 14.8' N 121° 58.8' E	Fl.G. period 5s	46 14	18	White concrete tower; 46.	Visible 062° -127°.

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PHILIPPINES							
14588 <i>F 2527</i>	Port Malbog.	12° 13.6' N 122° 00.2' E	Fl.R. period 5s			6 Concrete tower; 16.	
14592 <i>F 2527.6</i>	Cabalian Point.	12° 06.1' N 122° 00.8' E	Fl.W. period 5s	122 37		9 Concrete mast; 30.	Visible 238° -144° .
14593 <i>F 2527.7</i>	Calaton Point.	12° 10.9' N 122° 04.1' E	Fl.W. period 10s				
14594 <i>F 2511</i>	Magdiwang.	12° 29.7' N 122° 29.5' E	Fl.W. period 5s			12 Concrete beacon.	
14596 <i>F 2512</i>	Cauit Point.	12° 16.1' N 122° 38.0' E	Fl.(2)W. period 5s	33 10		16 White concrete tower; 33.	
14596.5 <i>F 2512.5</i>	Cresta de Gallo Island.	12° 11.1' N 122° 41.8' E	Fl.W. period 5s			Metal structure.	
14597 <i>F 2513</i>	Cajidiocan Point.	12° 21.8' N 122° 41.0' E	Fl.(2)W. period 5s				
14598 <i>F 2292.5</i>	Pagbulungan Point.	12° 13.1' N 123° 13.6' E	Fl.(2)G. period 5s				
14600 <i>F 2510</i>	Bugui Point.	12° 36.0' N 123° 14.3' E	Fl.W. period 10s	218 66		20 White round masonry tower, gray dwelling; 49.	Visible 008° -277° .
14602 <i>F 2503</i>	Aguja Point.	12° 41.6' N 123° 23.1' E	Fl.(3)W. period 10s			White fiberglass tower.	
14602.5 <i>F 2503.2</i>	Bagasiang Point.	12° 50.6' N 123° 12.1' E	Fl.W. period 5s			Fiberglass structure.	
14603 <i>F 2503.5</i>	San Pascual.	13° 08.9' N 122° 59.0' E	Fl.W. period 10s			Fiberglass structure.	
14604 <i>F 2508</i>	Colorada Point.	12° 32.5' N 123° 22.7' E	Fl.(2)R. period 5s	109 33		16 White concrete tower and dwelling; 16.	Visible 130° -085° .
14606 <i>F 2505.5</i>	Caduruan Point.	11° 43.3' N 124° 03.9' E	Fl.(2)W. period 10s				
14607 <i>F 2506</i>	Masbate Harbor, NW. Point.	12° 23.0' N 123° 36.5' E	Fl.R. period 5s	52 16		7 White metal framework tower, concrete tower house; 43.	
14612 <i>F 2502</i>	San Miguel Island.	12° 43.0' N 123° 35.4' E	Fl.(3)W. period 5s	222 68		12 Concrete tower; 36.	Visible 006° -288° .
14616 <i>F 2498</i>	Matabao Island.	12° 18.6' N 123° 48.5' E	Fl.W. period 5s	106 32		10 White steel round tower; 33.	
14620 <i>F 2500</i>	Port San Jacinto.	12° 34.2' N 123° 44.1' E	Fl.R. period 5s	55 17		15 White concrete tower; 26.	Visible 177° -334° .
14622 <i>F 2293</i>	Pulanduta Pt.	11° 54.4' N 123° 09.8' E	Fl.(2)W. period 4s			Fiberglass structure.	
14623 <i>F 2293.5</i>	Milagros.	12° 13.0' N 123° 31.9' E	Fl.(2)R. period 4s				
14623.5 <i>F 2293.8</i>	Cawayan.	11° 55.2' N 123° 45.1' E	Fl.G. period 5s				
14623.55 <i>F 2293.85</i>	Guinauayan Island.	11° 48.7' N 123° 54.5' E	Fl.(2)W. period 10s				
14623.7 <i>F 2296.5</i>	Naro Island.	11° 52.3' N 123° 40.1' E	Fl.G. period 5s			10	
14624 <i>F 2292</i>	Jintotolo Island.	11° 50.5' N 123° 07.2' E	Fl.(3)W. period 10s	187 57		20 Gray square stone tower, dwelling at base; 51.	
14626 <i>F 2301</i>	-Apga Point.	11° 47.7' N 122° 15.4' E	Fl.(2)W. period 5s				

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PHILIPPINES							
14628 F 2302	Batan Point.	11° 35.6' N 122° 30.2' E	Fl.(3)W. period 10s	39 12	12	Round metal tower; 36.	
14629 F 2303	Sonculan.	11° 33.3' N 122° 33.5' E	Fl.W. period 5s	33 10	15	White metal and fiberglass tower.	
14632 F 2304	Culasi Point.	11° 36.6' N 122° 42.3' E	Fl.W. period 7s	157 48	18	Concrete structure; 16.	Visible 345° -254° .
14636 F 2305	Capiz Bay, Libas Cove, S. breakwater, W. head.	11° 36.1' N 122° 42.4' E	Fl.R. period 5s	13 4	11	Concrete tower.	
14640 F 2306	--N. breakwater, S. head.	11° 36.2' N 122° 42.4' E	Fl.G. period 3s	20 6	7	White concrete tower; 16.	
14642 F 2307	Zapato Menor Island.	11° 42.8' N 122° 59.0' E	Fl.(2)W. period 10s				
14644 F 2308	Manigonigo Island.	11° 36.3' N 123° 10.6' E	Fl.W. period 7s	68 21	16	White round tower, dwelling; 29.	
14648 F 2294	North Gigante Island.	11° 38.4' N 123° 21.4' E	Fl.W. period 10s	77 23	17	White round tower, white dwelling with red roof; 38.	Visible 076° -343° , obscured by Uaidajun Island 267° -275° .
14652 F 2296	Tanguingui Island.	11° 29.3' N 123° 43.5' E	Fl.W. period 5s	128 39	17	Black steel tower, white lantern, concrete dwelling, white roof; 112.	
14656 F 2310	Estancia.	11° 27.0' N 123° 09.1' E	Fl.R. period 7s fl. 0.7s, ec. 6.3s	49 15	9	White fiberglass tower; 32.	Partly obscured by islands.
BANTAYAN ISLAND:							
14660 F 2298	-Bantayan, on beach off the town.	11° 11.0' N 123° 42.7' E	Fl.(2)W. period 10s	39 12	10	White metal tower; 33.	Visible 355° -150° .
14664 F 2300	-Buntay Point.	11° 18.1' N 123° 43.7' E	Fl.W. period 5s	33 10	10	White concrete tower.	
14665 F 2297	Guintacan Island.	11° 17.9' N 123° 53.5' E	Fl.W. period 10s fl. 0.3s, ec. 9.7s	213 65	17	White metal octagonal tower; 66.	Visible 225° -135° .
14668 F 2314	Baliguian Island.	11° 12.2' N 123° 20.3' E	Fl.W. period 7s fl. 0.2s, ec. 6.8s	75 23	14	White octagonal tower; 66.	
14672	<i>Carmen Shoals Buoy</i> , S. side of shoal.	11° 02.0' N 123° 20.0' E	Fl.W. period 5s			Red buoy.	
14676 F 2357.4	Cadiz.	10° 57.4' N 123° 19.3' E	Fl.W. period 5s		18		
14680 F 2357.6	Victorias.	10° 55.0' N 123° 04.0' E	F.G.			White tower.	
14681 F 2357.7	Tomonton Point.	10° 53.7' N 122° 56.9' E	Fl.(2)W. period 6s	39 12	7		
14684 F 2357	Himugann River Entrance.	10° 58.0' N 123° 24.0' E	F.R.W. (vert.)				In range with Sagay Water Tower 170° . Private light.
14686 F 2358.2	Bacolod City.	10° 42.4' N 122° 56.0' E	Fl.R. period 5s				
14686.2 F 2358.5	Bredco.	10° 41.1' N 122° 56.3' E	Fl.W. period 5s		7	Tower.	
14686.7 F 2359	Pulupandan.	10° 31.2' N 122° 47.7' E	Fl.(2)R. period 5s			Fiberglass structure.	

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PHILIPPINES							
14687 <i>F 2318</i>	San Juan Point.	11° 00.0' N 122° 50.0' E	FW.				
14688 <i>F 2316</i>	Calabazas Island.	11° 04.4' N 123° 01.4' E	Fl.W. period 10s	131 40	17	White metal octagonal tower; 66.	
ILOILO:							
14692 <i>F 2320</i>	-Siete Pecados.	10° 46.0' N 122° 40.7' E	Fl.W. period 5s fl. 0.7s, ec. 4.3s	89 27	9	White tower; 32.	
14694 <i>F 2319</i>	-Navalas Point.	10° 43.0' N 122° 42.7' E	Fl.(3)W. period 15s			Fiberglass structure.	
14695 <i>F 2319.5</i>	-San Enrique.	10° 37.0' N 122° 43.4' E	Fl.W. period 5s	33 10	15	White metal and fiberglass tower.	
14696 <i>F 2326.2</i>	-River entrance, N. side.	10° 41.6' N 122° 35.1' E	Fl.R. period 4s fl. 0.7s, ec. 3.3s	30 9	6	White fiberglass tower; 20.	
14700 <i>F 2326</i>	--S. side.	10° 41.5' N 122° 35.0' E	Fl.G. period 4s fl. 0.7s, ec. 3.3s	26 8	6	White fiberglass tower; 20.	Obscured by Fort San Pedro 038° -047°.
14702 <i>F 2327</i>	Bundolan Point.	10° 40.0' N 122° 33.7' E	Fl.W. period 7s			White metal and fiberglass tower; 33.	
14704	<i>-Morubuan Point Buoy 4.</i>	10° 39.0' N 122° 32.0' E	Fl.W. period 4s			Red buoy.	
14706 <i>F 2329</i>	Sinapsapan Point.	10° 35.3' N 122° 30.8' E	Fl.W. period 10s	33 10		White metal and fiberglass tower.	
14708 <i>F 2328</i>	Lusaran Point.	10° 28.9' N 122° 28.5' E	Fl.(2)W. period 10s	111 34	20	White round metal tower, dwelling at base, gray trimming; 38.	Visible 339° -184°.
14716 <i>F 2359.5</i>	S. side of Himamaylan River.	10° 06.0' N 122° 51.0' E	Fl.R. period 5s	23 7	7	Concrete beacon; 23.	Visible 070° -175°.
14717 <i>F 2359.7</i>	Sojoton Point.	9° 58.5' N 122° 27.3' E	Fl.(2)W. period 10s			Fiberglass structure.	
14720 <i>F 2332</i>	Nogas Island.	10° 25.1' N 121° 55.3' E	Fl.W. period 10s fl. 0.3s, ec. 9.7s	115 35	17	White octagonal tower; 98.	Visible 271° -170°, except where obscured by Jurao Jurao Island 278° -285°.
14724 <i>F 2334</i>	Tubigan Point, San Jose de Buenavista.	10° 44.3' N 121° 56.2' E	Fl.W. period 5s	49 15	7	White fiberglass tower on old fort; 39.	
14724.3 <i>F 2335</i>	Amparo.	10° 55.5' N 121° 58.9' E	Fl.W. period 5s		15	White metal and fiberglass tower; 33.	
14725 <i>F 2336</i>	Tibiao Point.	11° 17.7' N 122° 01.6' E	Fl.W. period 10s				
14727 <i>F 2336.5</i>	Libertad.	11° 46.1' N 121° 54.9' E	Fl.W. period 5s	49 15	7		
14727.5 <i>F 2336.8</i>	Nasag Point.	11° 54.0' N 121° 53.1' E	Fl.W. period 5s				
14728 <i>F 2337</i>	Pucio Point.	11° 45.7' N 121° 50.7' E	Fl.W. period 7s			Metal tower.	
14729	Cansilan.	9° 23.0' N 122° 40.5' E	Fl.W. period 5s				
14730 <i>F 2345</i>	Antulang.	9° 02.4' N 123° 01.0' E	Fl.(3)W. period 15s	85 26	7	Fiberglass tower; 36.	

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PHILIPPINES							
14732 F 2346	Dumaguete, middle corner of wharf.	9° 18.8' N 123° 18.5' E	Fl.G. period 5s	38 12	8	White concrete tower; 34.	Visible 198° -359° .
14736 F 2347	-Center of town.	9° 19.0' N 123° 19.0' E	Oc.W. period 5s lt. 3s, ec. 2s	97 30	10	Steel tower.	
14740 F 2356	San Carlos.	10° 28.6' N 123° 25.3' E	Fl.R. period 5s	41 12	10	Steel lattice covered by fiberglass; 30.	Visible 228° -268° and 008° - shore. F.W. shown from stack of San Carlos Milling Co.
14744 F 2354	Refugio Island.	10° 28.2' N 123° 26.9' E	Fl.W. period 7s	122 37	15	Steel lattice covered by aluminum.	
14748 F 2356.4	Escalante, on ruins of wharf in Danao River.	10° 49.0' N 123° 33.0' E	F.R.	37 11	7	White concrete tower; 33.	Visible 250° -288° .
14750 F 2356.6	Matabas Island, Molocaboc.	10° 58.6' N 123° 32.5' E	Fl.W. period 5s	33 10	10	White metal and fiberglass tower; 33.	
14752 F 2362	Balamban.	10° 30.3' N 123° 42.8' E	Fl.W. period 5s	43 13	10	White concrete tower; 28.	
14756 F 2363.4	Sangi.	10° 24.0' N 123° 38.0' E	F.R.	13 4	7		Visible 049° -205° .
14760 F 2363	Toledo.	10° 22.7' N 123° 38.0' E	Fl.W. period 5s		6	Concrete tower; 20.	
14764 F 2352	Guihulgan.	10° 07.3' N 123° 16.3' E	Fl.(3)W. period 12s	36 11	7		
14768 F 2364	Dumanjug, on beach at Tangil.	10° 04.2' N 123° 26.8' E	Fl.R. period 5s	33 10	12	White metal and fiberglass tower; 31.	
14772 F 2366	Pescador Island.	9° 55.4' N 123° 20.6' E	Fl.W. period 5s fl. 0.7s, ec. 4.3s	82 25	9	White concrete tower; 32.	
14774 F 2359.85	Looc Point.	9° 37.3' N 123° 19.2' E	Fl.W. period 7s			White steel and fiberglass tower; 31.	
14775 F 2350.5	Dacu.	9° 35.6' N 123° 08.8' E	Fl.(2)W. period 10s				
14776 F 2350	South Bais Bay, jetty, E. head.	9° 33.0' N 123° 09.0' E	F.R.				
14780 F 2348	Amblan Point, SE. part Negros Island.	9° 28.0' N 123° 13.6' E	Fl.W. period 5s	36 11	10	White concrete tower; 29.	Visible 140° -327° .
14781 F 2344.5	Sumilon.	9° 25.8' N 123° 23.4' E	Fl.W. period 5s	105 32		Concrete tower; 49.	
14783 F 2367	Minarcahan Point.	9° 18.0' N 123° 37.3' E	Fl.(3)W. period 15s	26 8	15	Fiberglass structure; 15.	
14784 F 2368	Port Canoan, Siquijor Island, front, near bridge, harbor, head.	9° 15.1' N 123° 36.1' E	F.R.		7	White triangular daymark, point up, black stripe.	
14788 F 2368.1	-Rear, 777 meters 115° from front.	9° 14.9' N 123° 36.1' E	F.R.		7	White triangular daymark, point down, black stripe.	
14791 F 2371	Cambalaguio.	9° 09.2' N 123° 30.8' E	Fl.(3)W. period 10s	89 27	15	Fiberglass tower; 15.	
14792 F 2370	Lazi, Siquijor Island.	9° 08.0' N 123° 38.0' E	F.R.		4	Concrete tower; 33.	
14793 F 2369	Minalulan Point.	9° 07.2' N 123° 40.9' E	Fl.(2)W. period 10s	184 56	17	White metal tower; 66.	
14796 F 2344	Apo Island.	9° 05.2' N 123° 15.9' E	Fl.W. period 5s	428 130	15	Concrete tower, white lantern and dwelling; 35.	

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PHILIPPINES							
14800 <i>F 2406</i>	Capitancillo Island.	10° 59.5' N 124° 06.2' E	Fl.W. period 10s	98 30	15	Black steel tower, white lantern, red-roofed stone dwelling at base; 83.	
14804 <i>F 2408</i>	Bogo Harbor, on reef at N. side of entrance.	11° 05.2' N 124° 01.7' E	Fl.(2)R. period 5s	13 4	9	White square concrete tower, red diamond daymark; 23.	
14808 <i>F 2410</i>	Chocolate Island, center.	11° 18.3' N 124° 03.8' E	Fl.W. period 3s	170 52	18	White concrete tower; 32.	Visible 250° -288° .
14810 <i>F 2412.5</i>	Carnasa Island.	11° 30.9' N 124° 06.1' E	Fl.(2)W. period 5s			Fiberglass structure.	
14812 <i>F 2412</i>	Malapascua Island.	11° 20.6' N 124° 06.4' E	Fl.(2)W. period 10s	112 34	18	White steel tower; 37.	
14816 <i>F 2360</i>	N. side, entrance to Hagnaya Bay.	11° 07.1' N 123° 56.4' E	Fl.R. period 5s	46 14	7	Beacon.	Visible 036° -160° and 170° -181° .
14819 <i>F 2405</i>	Tabuelan.	10° 50.0' N 123° 52.0' E	Fl.W. period 5s	20 6	10	Metal tower; 20.	
14820 <i>F 2404</i>	Sogod Bay.	10° 45.0' N 124° 00.0' E	Fl.(3)W. period 10s				Private light.
14824 <i>F 2402</i>	Bagacay Point.	10° 23.0' N 124° 01.1' E	Fl.(3)W. period 15s	144 44	20	Concrete tower and dwelling; 72.	Visible 179° -043° . Reported obscured approaching from NE.
14826 <i>F 2401</i>	Tilhaon.	10° 21.2' N 124° 00.2' E	F.W.	66 20	7		
CEBU HARBOR:							
14828 <i>F 2400</i>	-Bantolinao Point, reef, edge.	10° 20.1' N 123° 59.2' E	Fl.G. period 5s	30 9	11	White concrete tower; 30.	Visible 060° -294° .
14832 <i>F 2399</i>	-AVIATION LIGHT.	10° 19.3' N 123° 58.8' E	Al.Fl.W.G. period 6s	194 59	15	Concrete tower.	Aero Radiobeacon.
14845 <i>F 2393</i>	-Shell Island.	10° 17.1' N 123° 54.1' E	V.Q.(2)W. period 4s		10	Fiberglass structure; 36.	
14845.4 <i>F 2398</i>	-Lapu Lapu City.	10° 18.8' N 123° 56.9' E	Fl.(2)R. period 10s	33 10	6	White concrete tower.	
14846 <i>F 2390</i>	-Cauit Island.	10° 16.3' N 123° 52.9' E	Fl.W. period 5s		10	Fiberglass structure.	
14848 <i>F 2388</i>	-Lauis Ledge.	10° 14.1' N 123° 53.5' E	Fl.W. period 10s	53 16	13	White metal mast on concrete structure; 26.	Visible 304° -184° .
BOHOL ISLAND:							
14852 <i>F 2376</i>	-Maribojoc.	9° 44.2' N 123° 50.5' E	Fl.W. period 5s fl. 0.2s, ec. 4.8s	43 13	9	White fiberglass tower; 32.	
14856 <i>F 2386</i>	-Jetafe, on wharf.	10° 09.3' N 124° 09.5' E	Fl.R. period 5s	35 11	3	Fiberglass mast.	Visible 081° -166° 06' .
14860 <i>F 2387</i>	-Tubigon, pier, head.	9° 57.5' N 123° 57.4' E	Fl.R. period 5s		10		
14861 <i>F 2387.7</i>	-Inabanga.	10° 02.0' N 124° 03.4' E	Fl.(2)R. period 4s				
14862 <i>F 2387.5</i>	-Catagbacan.	9° 51.7' N 123° 49.0' E	Fl.G. period 5s		12		
14863 <i>F 2378</i>	-Tagbilaran, No. 1.	9° 39.5' N 123° 49.7' E	Fl.G. period 7s	33 10	6	Green hexagonal metal tower; 16.	

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PHILIPPINES							
14864.3 <i>F 2378.4</i>	--No. 5.	9° 39.4' N 123° 49.9' E	Fl.G. period 5s	7 2	3	Metal beacon, green square daymark.	
14864.4 <i>F 2378.6</i>	--No. 7.	9° 39.2' N 123° 50.4' E	Fl.G. period 5s	30 9	3		
14864.8 <i>F 2378.7</i>	--No. 8.	9° 39.0' N 123° 50.4' E	Fl.R. period 5s	7 2	3	Metal beacon, red triangular daymark, point up; 7.	
14864.9 <i>F 2378.8</i>	--Pier.	9° 39.0' N 123° 50.7' E	Fl.R. period 5s	49 15	10		
14866 <i>F 2374.5</i>	-Argao.	9° 52.6' N 123° 36.5' E	Fl.(2)W. period 10s				
14868 <i>F 2380</i>	-Baclayon.	9° 37.3' N 123° 54.7' E	Fl.R. period 5s	40 12	3	White concrete tower; 33.	Visible 288° -098° .
14872 <i>F 2382</i>	-Loay, river entrance, E. side.	9° 36.0' N 124° 00.0' E	Fl.R. period 5s	32 10	7	White concrete tower; 31.	Visible 322° 45' -064° 40' , 069° 10' -070° 50' .
14875 <i>F 2383.5</i>	-Gorda Point.	9° 35.9' N 124° 15.7' E	Fl.(2)W. period 4s			Fiberglass tower.	
14876 <i>F 2384</i>	-Jagna, inner end of wharf, S. coast of island.	9° 39.0' N 124° 22.0' E	Fl.R. period 5s	35 11	7	White concrete tower; 30.	Visible 268° 55' -352° 30' .
14876.5 <i>F 2384.3</i>	-Talisay.	9° 45.9' N 124° 35.6' E	Fl.(3)W. period 8s				
14877 <i>F 2384.6</i>	-Tugas Point.	10° 09.0' N 124° 37.0' E	Fl.(3)W. period 6s				
14877.3 <i>F 2384.4</i>	-Ubay.	10° 03.0' N 124° 28.0' E	Fl.G. period 3s		10		
14877.6 <i>F 2385.7</i>	-Talbon Bohol.	10° 16.4' N 124° 21.8' E	Fl.W. period 10s				
14877.7 <i>F 2330</i>	Taklong Island.	10° 24.2' N 122° 30.3' E	Fl.W. period 5s		10	White metal and fiberglass tower; 33.	
14877.8 <i>F 2385</i>	-Talibon.	10° 09.0' N 124° 19.6' E	Fl.R. period 3s		10	Concrete.	
14878 <i>F 2385.3</i>	-Tambo Island.	10° 11.5' N 124° 17.1' E	Fl.(2)R. period 5s				
14878.6 <i>F 2387.57</i>	-NW. Bank, No. 1.	10° 03.5' N 123° 59.1' E	Fl.G. period 3s	7 2	3		
14878.8 <i>F 2387.58</i>	--No. 2.	10° 00.5' N 123° 56.9' E	Fl.R. period 3s	7 2	3		
14879 <i>F 2387.6</i>	-Bagambanua.	10° 03.5' N 123° 53.9' E	Fl.(3)W. period 15s	7 2	3	Fiberglass structure.	
14879.6	-Pangangan Island.	9° 54.6' N 123° 48.8' E	Fl.R. period 5s				
14880 <i>F 2375</i>	-Cabilao Island.	9° 53.5' N 123° 45.5' E	Fl.W. period 5s	33 10	8	Concrete tower; 30.	
14884 <i>F 2374</i>	Balicasag Island.	9° 31.0' N 123° 41.1' E	Fl.W. period 7s fl. 0.2s, ec. 6.8s	121 37	17	White octagonal tower; 98.	
14885 <i>F 2383</i>	Pamilican Island.	9° 29.5' N 123° 55.2' E	Mo.(U)W. period 10s				
14888 <i>F 2416</i>	Biliran Strait.	11° 27.4' N 124° 28.7' E	Fl.W. period 4s	35 11	8	White concrete tower; 30.	Visible 270° -294° and 078° - 126° .
14892 <i>F 2418</i>	Carigara.	11° 18.2' N 124° 41.2' E	Fl.G. period 5s	29 9	2	White concrete tower; 25.	Visible 075° -225° .

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PHILIPPINES							
14896 F 2423.1	San Juanico Bridge, N. head.	11° 18.1' N 124° 58.2' E	Fl.G. period 2.5s		10		Navigable span marked by lights.
14907 F 2421	-Ivantacut.	11° 27.0' N 124° 52.5' E	Fl.R. period 3s		3		
14908 F 2420	Canauay Islet.	11° 26.1' N 124° 51.2' E	Fl.W. period 5s fl. 0.7s, ec. 4.3s	105 32	9	White octagonal tower; 66.	Visible 080° -265° . Channel is marked by lights and light buoys.
14912 F 2423.5	-Santa Rita.	11° 25.8' N 124° 57.6' E	Fl.W. period 5s		15		
14916 F 2457	Tacloban.	11° 15.1' N 125° 00.3' E	Fl.R. period 5s	52 16	15	White structure on top of building.	Visible 031° -322° , obscured by Dio Island 309° -311° .
14920 F 2458	Jinamoc Island, W. side.	11° 15.6' N 125° 04.5' E	Fl.(2)W. period 10s	78 24	12	White concrete tower; 30.	Partially obscured by land.
14924 F 2456	Mariquitdaquit Island.	11° 04.4' N 125° 09.3' E	Fl.W. period 4s	60 18	11	Black concrete tower; 32.	
14928 F 2455	Tolosa.	11° 04.1' N 125° 02.2' E	Fl.R. period 5s	416 127	12	Concrete tower on fort; 30.	
14932 F 2454.7	Abuyog.	10° 44.7' N 125° 00.8' E	Fl.W. period 5s fl. 0.7s, ec. 4.3s	77 23	24	White metal tower; 66.	
14932.5 F 2425	San Pedro.	10° 28.5' N 125° 13.5' E	Fl.W. period 5s	200 61	10	White aluminum and fiberglass tower; 31.	
14933 F 2252.7	Kanhandon.	10° 27.6' N 125° 27.9' E	Fl.W. period 10s	46 14	10	White aluminum and fiberglass tower; 31.	
14935 F 2253	Capintac, on Dingat Island.	10° 26.5' N 125° 36.8' E	Fl.(4)W. period 12s				
14935.5 F 2253.5	-Loreto, Looc Bay.	10° 21.7' N 125° 34.7' E	Fl.R. period 5s				
14935.7 F 2252.5	Kahinaan Island.	10° 10.2' N 125° 27.8' E	Fl.W. period 7s	33 10	10	White metal and fiberglass structure.	
14936 F 2426	Liloan Harbor, on extreme N. point of Panaon Island.	10° 09.7' N 125° 07.0' E	Fl.R. period 5s	32 10	7	Concrete post.	Visible 030° -340° .
14936.5 F 2426.2	Ilijan Island.	10° 04.0' N 125° 08.5' E	Fl.W. period 7s	118 36	10	White aluminum and fiberglass tower; 31.	
14937 F 2426.1	Caligangan.	10° 07.6' N 125° 12.8' E	Fl.W. period 5s	692 211	10	White aluminum and fiberglass tower; 31.	
14938 F 2427	Anahawan.	10° 15.3' N 125° 14.9' E	Fl.W. period 5s			Fiberglass structure.	
14938.5 F 2427.2	San Jose.	10° 15.9' N 125° 10.6' E	Fl.W. period 5s			Fiberglass structure.	
14938.6 F 2426.6	St. Bernard.	10° 16.7' N 125° 08.3' E	Fl.R. period 5s		7	Concrete structure.	
14939 F 2427.5	Sogod.	10° 22.9' N 124° 58.8' E	Fl.W. period 5s				
14940 F 2428	Malitbog, Sogod Bay, near root of wharf.	10° 09.5' N 125° 00.2' E	Fl.R. period 3s	35 11	7	White steel and fiberglass tower; 31.	
14944 F 2429	Limasawa Island, N. head.	9° 57.7' N 125° 03.7' E	Fl.(2)W. period 8s	128 39	5	Metal pole; 32.	
14948 F 2430	Maasin, boat landing.	10° 08.0' N 124° 50.0' E	Fl.R. period 5s	35 11	10	White concrete tower; 30.	Visible 279° -061° .

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PHILIPPINES							
14952 F 2434	Canigao Island.	10° 14.9' N 124° 45.1' E	Fl.W. period 5s fl. 0.7s, ec. 4.3s	78 24	10	White octagonal tower; 67.	
14953 F 2435	Adam Reef.	10° 14.6' N 124° 42.2' E	Fl.W. period 5s	36 11	17	White hexagonal tower; 16.	
14954 F 2435.5	Tood Islets.	10° 15.6' N 124° 39.3' E	Fl.(3)W. period 15s	16 5	10		
14956 F 2436	Hindang, fort, NW. corner.	10° 26.2' N 124° 43.5' E	Fl.G. period 5s	37 11	10	White steel and fiberglass tower; 31.	
14958 F 2436.5	Tulang.	10° 36.0' N 124° 18.9' E	Fl.(3)W. period 15s				
14958.2 F 2436.7	Pacijan.	10° 36.4' N 124° 16.6' E	Fl.(2)W. period 10s				
14960 F 2438	Baybay.	10° 40.5' N 124° 48.0' E	Fl.W. period 5s fl. 0.7s, ec. 4.3s	43 13	9	White fiberglass tower; 32.	Visible over an arc of 109°.
14964 F 2437	Poro Island.	10° 38.0' N 124° 28.0' E	F.R.	159 48	4	Concrete pole; 30.	Visible 265° -066°.
14968 F 2442	Ormoc.	11° 00.3' N 124° 36.5' E	Fl.W. period 5s fl. 0.7s, ec. 4.3s	43 13	9	White tower; 29.	Visible 328° 52' -102° 50'.
14969 F 2436.8	Poro Island.	10° 37.7' N 124° 24.5' E	Fl.W. period 7s			White steel and fiberglass tower; 31.	
14970 F 2442.5	Calunangan.	10° 52.4' N 124° 30.1' E	Fl.(2)W. period 10s			Fiberglass structure.	
14971 F 2442.2	Pilar.	10° 48.3' N 124° 34.0' E	Fl.(2)W. period 10s			White steel and fiberglass tower; 31.	
14972 F 2443	Sacay Point.	10° 54.9' N 124° 24.9' E	Fl.R. period 5s	33 10	10	Metal and fiberglass tower; 33.	Visible 008° -054°.
14976 F 2440	Albuera.	10° 54.9' N 124° 41.7' E	Fl.W. period 10s	39 12	10		
14980 F 2444	Palompon, 229 meters N. of wharf.	11° 03.2' N 124° 22.9' E	Fl.R. period 5s	35 11	11	White concrete tower; 30.	Occasional. Private light.
14984 F 2484	Catarman, on beach, N. coast of Samar.	12° 31.0' N 124° 39.0' E	F.R.	35 11	5	White concrete tower; 33.	Partially obscured by Hirapsan Island.
14988 F 2474	Allen, N. of entrance to Sabag River.	12° 30.1' N 124° 16.9' E	Fl.W. period 5s fl. 0.7s, ec. 4.3s	41 12	9	White tower; 32.	Visible 043° -150°.
14992 F 2482	San Jose, Carangian.	12° 32.0' N 124° 29.1' E	Fl.G. period 10s	43 13	9	White fiberglass tower; 33.	
14996 F 2446	-Laoang Bay, Ipil Point.	12° 35.5' N 125° 00.0' E	Fl.W. period 5s				
14997 F 2447	-Port Laoang.	12° 34.2' N 125° 00.3' E	Fl.R. period 5s		6		
15000 F 2480	-Tinau.	12° 37.0' N 124° 26.0' E	Fl.R. period 5s	32 10	7	Concrete pole; 31.	
15004 F 2448	Batag Island.	12° 39.6' N 125° 03.5' E	Fl.W. period 10s	313 95	20	White round concrete tower, red and white lantern, dwelling; 101.	
15005 F 2448.5	Sila Point.	12° 24.4' N 125° 20.1' E	Fl.(2)W. period 10s				
15005.5 F 2448.3	Hiunatungan Island.	12° 17.5' N 125° 23.9' E	Fl.R. period 5s			Fiberglass.	

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15006 <i>F 2449</i>	Linao Island.	12° 01.0' N 125° 33.1' E	Fl.W. period 5s		10		
15008 <i>F 2452</i>	Borongan.	11° 36.8' N 125° 26.3' E	Fl.W. period 5s	36 11	10	White concrete tower; 24.	Partially obscured by Andis and Divinubo Islands.
15012 <i>F 2450</i>	Divinubo Island, highest point.	11° 35.9' N 125° 30.2' E	Fl.W. period 5s	136 41	11	White framework tower on house; 46.	Visible 172° -335° .
15014 <i>F 2452.5</i>	Tugnung Point.	11° 21.0' N 125° 37.8' E	Fl.W. period 5s				
15016 <i>F 2453</i>	Guiuan, on church.	11° 01.9' N 125° 43.4' E	Fl.W. period 5s		7	Church spire.	
15017 <i>F 2245.5</i>	Punta Alegria, on Siargao Island.	10° 03.7' N 126° 03.9' E	Fl.(2)W. period 10s				
15020 <i>F 2454</i>	Suluan Island.	10° 45.3' N 125° 57.9' E	Fl.(3)W. period 15s	452 138	28	Aluminum tower; 52.	Visible 162° -142° .
15022 <i>F 2465</i>	Daram, on Danaodanauan Island.	11° 44.2' N 124° 42.8' E	Fl.W. period 5s				
15024 <i>F 2462</i>	Uacuac Island, N. point, at entrance to Calbiga River.	11° 40.0' N 124° 58.0' E	Fl.W. period 5s	37 11	10	Concrete tower; 32.	Visible 009° -197° .
15028 <i>F 2464</i>	Catbalogan.	11° 46.8' N 124° 52.7' E	Fl.R. period 5s	100 30	10	White concrete tower; 24.	Visible 347° -104° , obscured by Darajuy and Cagdullon Islands.
15032 <i>F 2470</i>	Gandara River, entrance, S. side.	11° 59.0' N 124° 41.5' E	Fl.R. period 5s	33 10	12	White concrete tower; 30.	Visible 103° -162° .
15034 <i>F 2468</i>	Santo Nino.	11° 53.5' N 124° 27.9' E	Fl.W. period 5s			Fiberglass structure.	
15036 <i>F 2466</i>	Cabilison Island.	11° 53.4' N 124° 16.6' E	Fl.W. period 10s	231 70	17	White hexagonal metal tower; 33.	Obscured partially by Alamargo, Maripipi and Tagapula Islands.
15037 <i>F 2473</i>	Malaga.	12° 14.1' N 124° 22.5' E	Fl.W. period 5s			White steel and fiberglass tower; 31.	
15039 <i>F 2415</i>	Kawayan, N. coast of Biliran Island.	11° 40.9' N 124° 21.3' E	Fl.R. period 5s			Fiberglass structure.	
15040 <i>F 2413</i>	Mabini Light.	11° 34.0' N 124° 16.0' E	Fl.W. period 7s		18		
15044 <i>F 2472</i>	Calbayog, W. end of town at mouth of river.	12° 04.0' N 124° 35.0' E	Fl.R. period 5s	33 10	7	White concrete tower; 33.	Visible 296° -073° .
15048 <i>F 2284</i>	Pulauan.	8° 38.3' N 123° 22.8' E	Fl.(2)W. period 5s	146 44	4	Concrete tower; 32.	Visible 126° -311° .
15050 <i>F 2281.6</i>	Pinahon Island.	8° 39.5' N 123° 30.5' E	Fl.(2)W. period 10s				
15051 <i>F 2281.3</i>	Baliangao Point.	8° 40.0' N 123° 37.2' E	Fl.W. period 7s			White metal and fiberglass tower; 33.	
15051.8 <i>F 2281.8</i>	Silino Island.	8° 51.3' N 123° 25.1' E	Fl.W. period 5s				
15052 <i>F 2282</i>	Tagolo Point.	8° 43.7' N 123° 22.7' E	Fl.W. period 10s	109 33	15	White concrete house; 26.	Visible 002° -265° .
15056 <i>F 2281</i>	Plaridel.	8° 36.7' N 123° 43.5' E	Fl.R. period 5s	20 6	7		Private light.
15060 <i>F 2280.4</i>	Inamucan Bay, W. side on edge of reef.	8° 40.0' N 123° 44.0' E	F.R.				Private light.

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PHILIPPINES							
15064 <i>F 2280</i>	Polo Point.	8° 35.5' N 123° 45.4' E	Fl.(3)W. period 10s	60 18	20	White steel tower; 53.	Visible 121° -327° .
15066 <i>F 2278</i>	Oroquieta City.	8° 29.8' N 123° 47.7' E	Iso.W. period 4s				
15068 <i>F 2276</i>	Tabu Point.	8° 19.6' N 123° 51.7' E	Fl.W. period 5s	32 10	15	White concrete tower; 30.	Visible 156° -357° .
15069 <i>F 2275.5</i>	Sinacaban.	8° 18.1' N 123° 51.8' E	Fl.W. period 5s				
15070 <i>F 2275</i>	Panguil Bay.	8° 02.6' N 123° 47.3' E	Fl.G. period 5s		7	White metal and fiberglass tower; 33.	
15080 <i>F 2274</i>	Ozamiz, Misamis Point.	8° 08.5' N 123° 50.7' E	Fl.(2)R. period 10s	55 17	9	Concrete tower; 30.	
15081 <i>F 2269</i>	Labuay.	8° 09.7' N 123° 57.0' E	Fl.(2)W. period 6s				
15082 <i>F 2270</i>	Kolambugan Range, front.	8° 06.8' N 123° 53.2' E	F.R.	65 20	7		
15084 <i>F 2270.1</i>	-Rear, about 180 meters 193° from front.	8° 06.7' N 123° 53.2' E	F.R.	75 23	7	Beacon, triangular daymark, point down; 28.	
15088 <i>F 2268</i>	Iligan, bank of river, at root of dock.	8° 13.9' N 124° 13.9' E	Fl.R. period 2s	37 11	7	White steel cylindrical tower; 34.	
15092 <i>F 2266</i>	Macabalan Point.	8° 30.3' N 124° 39.7' E	Fl.W. period 5s	58 18	9	White steel tower; 53.	Visible 119° -300° .
15093 <i>F 2266.5</i>	Molugan Point.	8° 31.8' N 124° 34.3' E	Fl.G. period 5s	39 12	7		
15094 <i>F 2267</i>	Sulauan Point.	8° 37.0' N 124° 28.6' E	Fl.W. period 10s			White steel and fiberglass tower; 31.	
15095 <i>F 2267.5</i>	Salimbal.	8° 20.3' N 124° 15.6' E	Fl.W. period 10s				
15096	Bugo.	8° 31.0' N 124° 45.0' E	F.W., F.G.	135 41	W. 11	Metal colored water tank.	
15097 <i>F 2265.5</i>	Tagoloan.	8° 31.6' N 124° 45.0' E	Fl.W. period 4s	142 43	11	White beacon on control tower.	
15098 <i>F 2265</i>	Villanueva.	8° 34.6' N 124° 45.6' E	F.R.			Red and white tower.	
15098.5 <i>F 2264.8</i>	Alutaya Reef.	8° 40.3' N 124° 41.3' E	Fl.R. period 5s				
15099 <i>F 2264.5</i>	Balingasag.	8° 42.4' N 124° 44.7' E	Fl.W. period 5s			White metal and fiberglass tower; 33.	
15100 <i>F 2264</i>	Balinguan, pier, root.	9° 00.0' N 124° 51.0' E	F.R.	25 8		Pole.	Private light.
15101 <i>F 2264.3</i>	Binuangan.	8° 58.0' N 124° 46.2' E	Fl.W. period 5s	33 10	15	White metal and fiberglass tower.	
15104 <i>F 2262</i>	Mambajao, angle of pier, Camiguin Island.	9° 15.4' N 124° 42.9' E	Fl.(2)W. period 6s	42 13	7	White concrete tower; 38.	
15104.3 <i>F 2261.9</i>	Catarman.	9° 12.1' N 124° 38.1' E	Fl.(3)W. period 10s				
15105 <i>F 2263.5</i>	Farol Point.	9° 05.0' N 124° 46.1' E	Fl.(2)W. period 7s			White steel and fiberglass tower; 31.	
15106 <i>F 2263</i>	-E. side of island.	9° 08.8' N 124° 47.8' E	Fl.G. period 5s		7		

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PHILIPPINES							
15108 <i>F 2261.4</i>	Gingoog Bay, on pier.	8° 50.8' N 125° 04.2' E	Fl.R. period 5s	36 11		Red and white daymark.	
15110 <i>F 2261.5</i>	-NW.	8° 51.4' N 125° 03.8' E	Fl.G. period 5s	26 8	7		
15112 <i>F 2261.7</i>	Medina.	8° 54.5' N 125° 01.3' E	Fl.G. period 5s	43 13	7	White concrete tower; 33.	
15116 <i>F 2258</i>	Nasipit Harbor.	8° 59.1' N 125° 19.8' E	Fl.W. period 5s	94 29	7	White concrete tower; 30.	
15120 <i>F 2256</i>	Agusan River, entrance.	9° 00.8' N 125° 31.3' E	Fl.R. period 5s	36 11	7	Concrete tower; 36.	
15121	Magsaysay.	9° 00.7' N 125° 10.3' E	Fl.(2)W. period 10s				
15124 <i>F 2254</i>	Cabadbaran.	9° 07.4' N 125° 31.8' E	Fl.W. period 7s	33 10	16	White steel and fiberglass tower; 66.	
15124.5 <i>F 2253.9</i>	Diuata Point.	9° 05.6' N 125° 12.4' E	Fl.W. period 10s	66 20	10	White aluminum and fiberglass tower; 31.	
15125 <i>F 2426.5</i>	Panaon Island, Benit Point.	9° 54.8' N 125° 16.9' E	Fl.W. period 3s			White concrete tower; 66.	
15125.5 <i>F 2253.8</i>	Punta Beach.	9° 33.9' N 125° 25.1' E	Fl.W. period 10s			White metal and fiberglass tower; 33.	
15126 <i>F 2252</i>	Sumilon Island.	9° 54.9' N 125° 26.6' E	Fl.(3)W. period 15s				
15127.8 <i>F 2251</i>	Punta Bilaa.	9° 49.3' N 125° 26.1' E	Fl.W. period 10s				
15128 <i>F 2250</i>	Surigao.	9° 47.1' N 125° 30.0' E	Fl.(2)R. period 5s	23 7	8	White pyramid tower, black spiral staircase.	Visible 139° -029° .
15130 <i>F 2247.5</i>	Hinatuan Island, E.	9° 47.0' N 125° 44.2' E	Fl.W. period 7s	46 14	10	White metal and fiberglass tower; 31.	
15131 <i>F 2247.6</i>	-North.	9° 48.7' N 125° 42.9' E	Fl.W. period 5s	36 11	10	White metal and fiberglass tower; 31.	
15132 <i>F 2248</i>	Rasa Island, S. end.	9° 47.5' N 125° 35.1' E	Fl.(3)W. period 10s	10 3	7	Square concrete tower; 10.	Visible 235° -146° .
15134 <i>F 2247</i>	-S. side.	9° 44.7' N 126° 01.9' E	Fl.W. period 5s				
15134.4 <i>F 2247.2</i>	Dapa.	9° 44.6' N 126° 02.7' E	Fl.W. period 5s	32 10	6	Concrete tower; 29.	
15136 <i>F 2246</i>	Dahakit Point.	9° 33.7' N 125° 56.0' E	Fl.W. period 5s fl. 0.7s, ec. 4.3s	141 43	9	White fiberglass tower; 33.	
15138 <i>F 2245</i>	Auqui.	9° 23.4' N 126° 03.0' E	Fl.(3)W. period 10s				
15140 <i>F 2244</i>	Cautit Point.	9° 18.4' N 126° 12.3' E	Fl.(3)W. period 8s	36 11	9	White concrete tower; 32.	Visible 157° -001° .
15142 <i>F 2243.5</i>	Maboa.	9° 05.2' N 126° 11.9' E	Fl.(2)W. period 15s				
15144 <i>F 2242</i>	Arangasa Island.	8° 52.7' N 126° 20.5' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	36 11	15	White concrete tower; 36.	Visible 176° -350° .
15145 <i>F 2243</i>	-Bitanogan Bay.	8° 53.6' N 126° 19.7' E	Fl.W. period 10s				

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PHILIPPINES							
15146 <i>F 2240</i>	Sanco Point.	8° 14.7' N 126° 27.2' E	Fl.W. period 5s	33	15	Concrete tower; 33.	
15147 <i>F 2239.5</i>	Baculin Point.	7° 27.0' N 126° 35.6' E	Fl.(2)W. period 10s				
15147.5 <i>F 2239.3</i>	Pusan Point.	7° 17.7' N 126° 36.1' E	Fl.W. period 5s			Concrete structure.	
15148 <i>F 2238</i>	Mati, Pujada Bay, E. of pier, on beach.	6° 57.1' N 126° 13.0' E	Fl.R. period 5s	36 11	4	White frame structure; 34.	Visible seaward over an arc of 180°.
15150 <i>F 2237</i>	Pujada Island.	6° 46.8' N 126° 16.4' E	Fl.R. period 5s		12		
15151 <i>F 2239</i>	Lamigan Point.	6° 48.2' N 126° 20.1' E	Fl.W. period 5s	33 10	12	Concrete tower; 32.	
15152 <i>F 2236</i>	Cape San Augustin.	6° 16.2' N 126° 11.6' E	Fl.W. period 5s	112 34	15	Concrete tower; 32.	
15156 <i>F 2138</i>	Palmas Island.	5° 33.7' N 126° 35.6' E	Fl.(3)W. period 20s	426 130	23	White framework structure; 98.	
	RACON		M(- -)				
15160 <i>F 2232</i>	Talikulud Island.	6° 54.6' N 125° 41.3' E	Fl.W. period 5s		10	Round concrete tower; 33.	Visible 313° -151°.
15160.1 <i>F 2233</i>	Paet Point.	6° 54.3' N 125° 46.2' E	Fl.W. period 5s				
15161 <i>F 2235.3</i>	Mapanga.	7° 03.0' N 125° 57.0' E	Fl.(2)W. period 10s				
15161.5 <i>F 2226.8</i>	Kiambing.	6° 01.8' N 124° 30.7' E	Fl.W. period 5s	328 100	12	Metal tower; 20.	
15162 <i>F 2226.7</i>	Buca Point.	5° 57.5' N 124° 40.5' E	Fl.(2)W. period 10s				
15163 <i>F 2235</i>	Panacan.	7° 09.2' N 125° 39.6' E	Fl.G. period 5s		8	Concrete structure.	
15164 <i>F 2234</i>	Davao, on beach, S. of wharf.	7° 04.7' N 125° 37.6' E	Fl.G. period 5s	37 11	10	White metal and fiberglass tower; 33.	Visible 226° -033°.
15166 <i>F 2234.5</i>	Lanang Point.	7° 07.3' N 125° 39.8' E	Fl.R. period 5s		11	Concrete structure.	
15167 <i>F 2235.5</i>	-Bitaugan.	6° 46.4' N 126° 04.6' E	Fl.W. period 10s				
15167.3 <i>F 2235.7</i>	-Sigaboy Island.	6° 37.7' N 126° 04.1' E	Fl.W. period 5s				
15168 <i>F 2230</i>	Colapsin Point.	6° 37.9' N 125° 25.6' E	Fl.W. period 5s	244 74	15		Visible 047° -313°.
15172 <i>F 2231</i>	Malalag Bay, NE. side of bay.	6° 36.9' N 125° 25.6' E	Fl.R. period 5s	444 135			Visible 306° -170°.
15176 <i>F 2231.2</i>	Port Malalag.	6° 35.9' N 125° 24.7' E	Fl.W. period 5s	102 31	15	Concrete structure.	Visible 108° -354°.
15178 <i>F 2231.3</i>	-Malalag River.	6° 36.2' N 125° 23.9' E	Fl.R. period 5s		7	Structure, triangular daymark.	
15180 <i>F 2231.4</i>	-Bolton Reef.	6° 37.7' N 125° 24.5' E	Fl.R. period 5s	10 3	8	Beacon.	
15181 <i>F 2229</i>	Tubalan Head.	6° 30.0' N 125° 35.6' E	Fl.(2)G. period 5s			Fiberglass structure.	

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PHILIPPINES							
15181.3 <i>F 2228.9</i>	Tingulo Point.	6° 21.6' N 125° 38.3' E	Fl.W. period 10s				
15181.5 <i>F 2228.7</i>	Davao del Sur.	6° 15.0' N 125° 41.2' E	Fl.(3)W. period 15s			Fiberglass structure.	
15181.7 <i>F 2228.6</i>	Banos Point.	5° 55.3' N 125° 39.6' E	Fl.W. period 10s				
15181.8 <i>F 2227</i>	Makar.	6° 05.7' N 125° 09.6' E	Fl.G. period 5s				
15182 <i>F 2227.2</i>	Canalasan Cove.	5° 49.6' N 125° 12.2' E	Fl.W. period 5s	25 8	5	Concrete post; 25.	
15184 <i>F 2228</i>	Tinaca Point.	5° 33.3' N 125° 19.9' E	Fl.W. period 5s	140 43	11	White concrete tower; 35.	
15185 <i>F 2228.3</i>	Balut Island, on Manamil Point.	5° 22.3' N 125° 21.0' E	Fl.(2)W. period 10s				
15185.5 <i>F 2228.5</i>	Olanivan Island.	5° 31.0' N 125° 29.2' E	Fl.W. period 8s				
15186 <i>F 2226.5</i>	Lebak Point.	6° 33.2' N 124° 02.2' E	Fl.W. period 5s		10	White steel and fiberglass tower; 31.	
15187 <i>F 2226.2</i>	Tapian Point.	7° 08.7' N 124° 04.0' E	Fl.W. period 7s			White steel and fiberglass tower; 31.	
15188 <i>F 2226</i>	Cotabato, river entrance.	7° 15.0' N 124° 12.0' E	Fl.G. period 5s	34 10	10	Galvanized steel tower; 29.	
15190 <i>F 2225.5</i>	Polloc Harbor.	7° 21.3' N 124° 13.2' E	Fl.R. period 5s		15		
15191.5 <i>F 2225.3</i>	Sultan Naga Dimaporo.	7° 48.0' N 123° 43.0' E	Fl.G. period 5s		10		
15191.7 <i>F 2225.2</i>	Tukuran.	7° 51.0' N 123° 34.5' E	Fl.W. period 7s				
15192 <i>F 2225</i>	Pagadian Bay.	7° 49.5' N 123° 26.0' E	Fl.R. period 5s		12	Pole; 33.	Private light.
15194 <i>F 2224.7</i>	Dumagok Island.	7° 47.6' N 123° 26.0' E	Fl.(2)W. period 5s		12		
15196 <i>F 2224</i>	Margosatubig, pier, head.	7° 34.6' N 123° 10.0' E	Fl.(2)W. period 5s		6	Pole; 12.	
15197 <i>F 2224.2</i>	Malangas.	7° 37.7' N 123° 02.4' E	Fl.(2)W. period 10s			Concrete structure.	
15198 <i>F 2222.5</i>	Naga.	7° 47.0' N 122° 41.7' E	Fl.(3)W. period 15s			Fiberglass structure.	
15200 <i>F 2218</i>	Little Santa Cruz Island.	6° 53.1' N 122° 02.6' E	Fl.(3)W. period 15s	53 16	20	White framework structure; 53.	Partially obscured by Great Santa Cruz Island.
15204 <i>F 2220</i>	Zamboanga, outer extremity of Government Wharf.	6° 54.1' N 122° 04.5' E	Fl.R. period 5s	36 11	9	Light hoisted between two iron supports, iron cabin at base; 29.	
15212 <i>F 2219</i>	-Ruined pier, head.	6° 54.2' N 122° 04.3' E	Fl.R.			Wooden post, white triangular daymark; 10.	
15214 <i>F 2210</i>	Batorampon Point.	7° 06.5' N 121° 53.8' E	Fl.(3)W. period 8s				
15214.3 <i>F 2209</i>	Sirawai.	7° 35.2' N 122° 08.3' E	Fl.(3)W. period 6s	33 10		White steel and fiberglass tower; 33.	
15214.5 <i>F 2208</i>	Santa Maria.	7° 45.6' N 122° 06.3' E	Q.(2)W. period 2s				

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PHILIPPINES							
15214.7 <i>F 2207.5</i>	Murcielagos.	8° 07.0' N 122° 26.7' E	Fl.W. period 7s	36 11	15	Metal and fiberglass tower; 33.	
15214.8 <i>F 2207.8</i>	Coronado Point.	7° 57.4' N 122° 13.5' E	Fl.(2)W. period 10s				
15215 <i>F 2207</i>	Sindangan.	8° 09.7' N 122° 39.7' E	Fl.(4)W. period 15s				
15216 <i>F 2214</i>	Sibago Island.	6° 45.0' N 122° 24.0' E	Fl.W. period 10s	705 215	32	Galvanized metal tower; 75.	
15220 <i>F 2216</i>	Malamaui Island.	6° 44.7' N 121° 59.4' E	Fl.R. period 5s	36 11	7	Concrete tower; 33.	Visible 190°-265° and in Isabela Channel.
15222 <i>F 2221</i>	Kulibato Point.	6° 40.3' N 122° 09.6' E	Fl.W. period 5s	236 72	7	Metal tower; 36.	
15224 <i>F 2206</i>	Mataja Island, S. point.	6° 34.0' N 121° 41.8' E	Fl.W. period 5s	62 19		Red framework structure; 49.	Obscured by Balukbaluk Island and trees 090° - 172°.
15228 <i>F 2204</i>	Tatalan Islands, S. end.	6° 13.0' N 121° 50.0' E	Fl.W. period 5s	45 14	12	White concrete tower; 29.	Visible 260° -145°.
15232 <i>F 2196</i>	Jolo Harbor.	6° 03.5' N 120° 59.9' E	Fl.R. period 5s	58 18	18	White steel framework tower; 54.	Visible 071° -207°.
15236 <i>F 2192</i>	Siasi Island, Siasi Wharf.	5° 32.8' N 120° 48.8' E	F.R.			Mast; 17.	
15236.5 <i>F 2192.5</i>	-Busbus Pt.	5° 34.4' N 120° 49.2' E	Fl.W. period 5s	30 9	7	Concrete structure.	
15240 <i>F 2200</i>	N. Ubian Island.	6° 10.0' N 120° 27.0' E	Fl.W. period 5s	35 11	18	White concrete tower; 32.	Visible 086° -289°.
15244 <i>F 2194</i>	Pearl Bank.	5° 49.9' N 119° 44.2' E	Fl.W. period 5s	62 19	15	Red round steel tower; 57.	Partially obscured by trees 018° -020° and 031° - 033°.
15246 <i>F 2189</i>	Saluag Island.	4° 35.4' N 119° 28.1' E	Fl.W. period 5s	95 29	20	Metal structure.	
15248 <i>F 2190</i>	Port Bongao, extremity of reef.	5° 02.2' N 119° 46.4' E	Fl.W. period 5s	30 9	12	Concrete tower; 32.	Visible 294° -339°.
15252 <i>F 2191</i>	New Batu Batu, on pier.	5° 04.2' N 119° 53.2' E	Fl.G. period 5s	14 4	1	Wooden tripod.	

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RUSSIA

BERING STRAIT:

15260 <i>M 8232</i>	-Pamyatnik Dezhneva.	66° 00.9' N 169° 43.7' W	L.Fl.W. period 6s	262 80	14	Concrete obelisk, lantern with gallery; 32.	Visible 215° -010° . Reserve light Fl.(3)W. 60s 18M 0.1 mile E.
15268 <i>M 8226</i>	-Ostrov Ratmanova (Big Diomedes Island), N. shore.	65° 48.5' N 169° 01.8' W	Fl.W. period 5s fl. 0.5s, ec. 4.5s	138 42	11	White four-sided pyramidal structure; 12.	Shown Jul. 25 to Dec. 1.

ZALIV LAVRENTIYA:

15272 <i>M 8220</i>	-Mys Nunyamo.	65° 36.2' N 170° 37.3' W	L.Fl.W. period 8s fl. 2s, ec. 6s	59 18	10	Beacon; 26.	
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RUSSIA							
15280 <i>M 8214</i>	-Mys Krigygun.	65° 28.0' N 171° 03.5' W	Fl.W. period 4s fl. 0.5s, ec. 3.5s	72 22	11	White square pyramidal structure, black stripe; 31.	Visible 250° -080° . Shown Jul. 25 to Dec. 1.
15281 <i>M 8216</i>	-Mys Khargilakh.	65° 35.3' N 170° 58.9' W	Fl.W. period 5s		7		Radar reflector.
15281.1 <i>M 8217</i>	-Lavrentiya.	65° 35.6' N 171° 01.4' W	Fl.W. period 5s		3		Radar reflector.
15282 <i>M 8212</i>	Lorino.	65° 30.4' N 171° 38.8' W	Fl.W. period 5s		13		Radar reflector.
15283 <i>M 8211</i>	Mechigmenskaya Guba.	65° 28.7' N 172° 04.2' W	Fl.W. period 5s		10		Radar reflector.
15284 <i>M 8208</i>	Mys Nygligan.	65° 04.0' N 172° 06.0' W	Fl.W. period 2.5s fl. 0.5s, ec. 2s	152 46	10	White square pyramidal structure, black band in middle; 21.	
15288 <i>G 7110</i>	Saint Lawrence Island, NW. end, AVIATION LIGHT.	63° 46.0' N 171° 44.0' W	Al.Fi.W.G.				
15289 <i>M 8210</i>	Ostrov Arakamchechen.	64° 45.4' N 172° 03.8' W	L.Fi.W. period 10s		10		
15289.1 <i>M 8195</i>	Yanrakynnot.	64° 54.6' N 172° 30.3' W	Fl.W. period 10s		9		
15289.3 <i>M 8194.2</i>	Ostrov Kynkay.	64° 40.4' N 172° 43.8' W	Fl.W. period 2.5s		6		
15289.7 <i>M 8194.8</i>	Ostrov Nuneangan.	64° 36.7' N 172° 20.2' W	L.Fi.W. period 5s		10		
15300 <i>M 8196</i>	Mys Chaplina.	64° 24.3' N 172° 14.2' W	L.Fi.W. period 6s	92 28	14	Black 4-sided pyramidal structure, platform on top; 59.	Reserve light Fl.W. 12s 11M. Radar reflector.
15302 <i>M 8194</i>	Mys Galechnyy.	64° 25.5' N 172° 47.8' W	Fl.W. period 5s		10		
15303 <i>M 8193</i>	Novoye Chapalino.	64° 29.8' N 172° 51.3' W	Fl.W. period 5s		10		
15304 <i>M 8192</i>	Mys Ploskiy.	64° 18.0' N 172° 52.0' W	L.Fi.W. period 10s fl. 2s, ec. 8s	180 55	11	White pyramidal structure; 39.	
15308 <i>M 8190</i>	Kivak, about 4.7 kilometers SW. of Mys Ploskiy.	64° 15.7' N 172° 57.8' W	Fl.W. period 4s	157 48	11	Metal mast, brown rectangle with white stripe; 39.	
15312 <i>M 8188</i>	Gora Lysaya Golova.	64° 17.5' N 173° 21.4' W	Fl.W. period 6s	240 73	14	White 4-sided pyramidal structure, black stripe; 20.	
BUKHTA PROVIDENIYA:							
15316 <i>M 8186</i>	-Mys Gaydamak, W. side of entrance to Reyd Plover.	64° 22.0' N 173° 21.0' W	Fl.R. period 5s fl. 0.5s, ec. 4.5s	41 12	8	White square brick tower, red band; 26.	Radar reflector.
15317 <i>M 8183</i>	-Bukhta, Yasnaya Polyana, Range, front.	64° 26.6' N 173° 10.8' W	Fl.G. period 1.5s	43 13	5	Black mast, white panel with black stripe; 26.	Visible on range line only.
15317.5 <i>M 8183.1</i>	---Rear, 366 meters 035° 48' from front.	64° 26.7' N 173° 10.3' W	L.Fi.G. period 6s fl. 2s, ec. 4s	46 14	5	Black mast, white panel with black stripe; 26.	Visible on range line only.
15320 <i>M 8180</i>	-Komsomol' skiye, Range, front.	64° 25.4' N 173° 11.3' W	Fl.R. period 1.5s fl. 0.5s, ec. 1s	46 14	9	Orange concrete 3 sided pyramid, white stripe; 26.	Visible on range line only.
15324 <i>M 8182</i>	--Rear, 224 meters 070° 36' from front.	64° 25.4' N 173° 10.6' W	Fl.R. period 3s fl. 1s, ec. 2s	105 32	9	Orange concrete triangular pyramid, white stripe; 29.	Visible on range line only.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RUSSIA							
-Bukhta Emma:							
15328 <i>M 8176</i>	--Approach Range, front, SW. extension of Mys Likhacheva.	64° 25.1' N 173° 15.0' W	L.F.I.G. period 6s fl. 2s, ec. 4s	121 37	8	White pyramidal stone structure, red stripe; 29.	Reserve light Q.W. 8M.
15332 <i>M 8178</i>	---Rear, 567 meters 051° 54' from front.	64° 25.3' N 173° 14.5' W	L.F.I.G. period 6s fl. 2s, ec. 4s	167 51	8	White pyramidal stone structure, red stripe; 36.	Reserve light Iso.W. 2s 8M.
15336 <i>M 8173</i>	-Zapadnyy.	64° 22.5' N 173° 25.5' W	F.I.G. period 5s fl. 1s, ec. 4s	29 9	2	White pyramidal target, red stripe; 19.	Color unknown.
15340 <i>M 8172.5</i>	-Mys Severnyy.	64° 20.5' N 173° 31.0' W	F.I.W. period 3s fl. 1s, ec. 2s	108 33	8	White rectangle on pyramid, platform on top; 23.	
15344 <i>M 8172</i>	-Mys Lesovskogo.	64° 20.3' N 173° 33.7' W	L.F.I.W. period 10s fl. 2s, ec. 8s	167 51	18	White panel on red metallic pipe; 29.	
ANADYRSKIY LIMAN:							
15345 <i>M 8169</i>	-Bukhta Melkaya Range, front.	64° 47.6' N 177° 34.1' E	2 V.Q.R.		11		
15345.01 <i>M 8169.1</i>	--Rear, 732 meters 073° from front.	64° 47.7' N 177° 35.0' E	Iso.R. period 3s		11		
15348 <i>M 8150</i>	Mys Navarin.	62° 22.2' N 179° 09.6' E	F.I.W. period 8s		18		Visible 223° -350° . Radiobeacon.
15352 <i>M 8153</i>	Mys Korobitsina.	62° 49.8' N 179° 34.3' E	F.I.W. period 6s	180 55	8	Metal framework tower, cylindrical daymark with red and white bands; 39.	Shown Jul. 20 to Nov. 1.
15353 <i>M 8157</i>	Beringovskiy Range, front.	63° 03.8' N 179° 20.5' E	Oc.R. period 4s		7		
15353.1 <i>M 8157.1</i>	-Rear, 1.2 miles 139° from front.	63° 04.4' N 179° 18.2' E	F.I.R. period 3s		7		
15353.5 <i>M 8157.5</i>	-Pier.	63° 03.8' N 179° 22.5' E	Oc.R. period 3s		3		
15356 <i>M 8159</i>	Mys Barykova.	63° 05.8' N 179° 26.8' E	F.I.W. period 4s	338 103	9	Red octagonal concrete tower; 26.	Shown Jul. 20 to Nov. 1.
15400 <i>M 8121.8</i>	Mys Kreshchnyy Ognem.	60° 32.9' N 169° 13.2' E	F.I.R. period 3s		3		
ZALIV KORFA:							
15408 <i>M 8128</i>	-Skrtyy.	60° 26.6' N 166° 09.4' E	Iso.W. period 3s	203 62	9	White octagonal stone tower, black band; 26.	Visible 240° -070° .
15410 <i>M 8129</i>	-Smirnova.	59° 54.3' N 166° 23.9' E	F.I.W. period 8s		18		Visible 040° -194° . Radiobeacon.
15412 <i>M 8130</i>	-Mys Govena.	59° 48.2' N 166° 05.5' E	L.F.I.W. period 6s fl. 2s, ec. 4s	276 84	9	White square concrete tower, black band; 40.	Visible 302° -184° .
15416 <i>M 8126</i>	-Mys Oria.	59° 59.2' N 165° 12.6' E	F.I.W. period 3s	305 93	9	Tower, yellow panel with black stripe; 36.	
15420 <i>M 8125</i>	Ostrov Verkhoturova.	59° 37.1' N 164° 38.8' E	F.I.W. period 4s		4		Visible 350° -232° .
15424 <i>M 8120</i>	Mys Ozernoi.	57° 43.5' N 163° 18.9' E	F.I.W. period 8s fl. 1s, ec. 7s	194 59	18	White round tower, lower part black; 82.	Nautophone: 5 bl. ev. 60s (bl. 2s, si. 4s, bl. 6s, si. 3s, bl. 3s, si. 6s, bl. 6s, si. 7s, bl. 7s, si. 16s). Radiobeacon.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RUSSIA							
15428 <i>M 8108</i>	Mys Afrika.	56° 11.1' N 163° 21.2' E	Fl.W. period 6s fl. 1.5s, ec. 4.5s	125 38	20	Black round tower, white bands; 95.	Reserve light range 8M. Radiobeacon.
15432 <i>M 8102</i>	Mys Kronotskiy.	54° 45.0' N 162° 07.0' E	Fl.(3)W. period 10s fl. 0.2s, ec. 1.9s fl. 0.2s, ec. 1.9s fl. 0.2s, ec. 5.6s	174 53	20	Black octagonal concrete tower, white stripes; 43.	Visible 247° -043° . Reserve light Fl.W. 10s 8M.
15440 <i>M 8096</i>	Mys Shipunskiy.	53° 06.0' N 160° 01.9' E	Fl.W. period 6s	817 249	22	Red square masonry tower, white bands; 39.	Visible 197° -100° . Radiobeacon.
15440.5 <i>M 8076</i>	-On shore.	53° 04.5' N 158° 58.5' E	Fl.W. period 3s	203 62	9	Metal framework tower, red daymarks, white bands; 49.	
15441 <i>M 8069</i>	Mys Mayachnyy.	52° 53.2' N 158° 42.7' E	Oc.W. period 7s lt. 5s, ec. 2s	305 93	25	White metal tower, black bands; 45.	Visible 060° -228° . Reserve light range 9M. Radiobeacon.
15441.3 <i>M 8072</i>	-Mys Bezymyannyy.	52° 53.9' N 158° 38.7' E	Fl.W. period 12s	249 76	22	Red metal framework tower; 13.	
15441.6 <i>M 8068</i>	-Ostrov Starichkov.	52° 46.6' N 158° 37.4' E	Fl.W. period 4s	512 156	9	Metal framework tower, black square daymark; 20.	
15442 <i>M 8067</i>	Mys Opasnyy.	52° 41.6' N 158° 35.5' E	Fl.W. period 6s	561 171	13	Metal framework tower, red daymark, white bands; 32.	Visible 322° -202° .
15442.5 <i>M 8066</i>	Russkiy.	52° 26.1' N 158° 30.5' E	Fl.W. period 4.5s	200 61	9	White octagonal tower, black bands; 26.	Visible 249° -106° . Radiobeacon.
15442.7 <i>M 8065</i>	Mys Povorotnyy.	52° 18.6' N 158° 32.5' E	Fl.W. period 4s	594 181	9	Metal framework tower, white square daymark, red bands; 26.	Visible 015° -195° .
15516 <i>M 8064</i>	Kruglyy.	52° 04.1' N 158° 19.1' E	Fl.(2)W. period 10s fl. 0.2s, ec. 2.4s fl. 0.2s, ec. 7.2s	479 146	29	White octagonal tower, black bands; 52.	Visible 212° -015° 30' . Reserve light Fl.W. 10s 10M. Radiobeacon.
15520 <i>M 8062</i>	Lopatka.	50° 56.2' N 156° 46.5' E	Fl.W. period 5s		9		
15522 <i>M 8041.5</i>	Poluostrov Vladimira.	50° 50.3' N 155° 39.8' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	43 13	9	White octagonal stone tower, black bands; 26.	
15525 <i>M 8063</i>	Mys Lopatka.	50° 52.3' N 156° 39.9' E	L.Fl.(2)W. period 15s fl. 3s, ec. 4s fl. 3s, ec. 5s	226 69	22	Round metal tower, white bands; 96.	Reserve light Fl.W. 7.5s 10M.
15526 <i>M 8063.5</i>	Mys Kambalnyy.	51° 06.2' N 156° 42.3' E	L.Fl.W. period 6s		9		
15528 <i>M 8038</i>	Ozernovskiy.	51° 29.2' N 156° 29.6' E	Fl.R. period 6s fl. 1.5s, ec. 4.5s	184 56	9	Square metal tower; 20.	Reserve light range 3M. Radiobeacon.
15530 <i>M 8037.5</i>	Vtoraya Yavinskaya.	51° 41.8' N 156° 30.1' E	Fl.W. period 5s		7		
15532 <i>M 8036</i>	Oktyabr'skiy.	52° 33.8' N 156° 18.5' E	Fl.W. period 6s fl. 1.5s, ec. 4.5s	115 35	18	Round iron tower, black and white stripes; 82.	Reserve light Fl.W. 6s 8M. Radiobeacon.
15538 <i>M 8043</i>	Mys Levashova.	50° 30.6' N 156° 09.8' E	Fl.W. period 5s	256 78	9	8-sided concrete tower, black and white stripes; 26.	Visible 180° -025° .
15552 <i>M 8030</i>	Krutogorava.	55° 05.4' N 155° 35.3' E	Fl.(3)W. period 15s fl. 0.4s, ec. 2.8s fl. 0.3s, ec. 2.7s fl. 0.4s, ec. 8.4s	262 80	23	White round structure, black top; 112.	Appears as F.W. at short range. Reserve light 9M. Radiobeacon.
15553 <i>M 8028</i>	Mys Matugun.	61° 40.9' N 160° 12.9' E	Fl.W. period 5s		8		Visible 110° -055° .

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RUSSIA							
15553.05 <i>M 8026</i>	Mys Nadezhda.	61° 30.2' N 156° 41.5' E	Fl.W. period 5s		8		Visible 079° -193° .
15553.1 <i>M 8024</i>	Mys Vilginskiy.	61° 11.6' N 156° 38.2' E	Fl.W. period 3s		8		Visible 200° -060° .
15553.15 <i>M 8022</i>	Mys Ostrovnoy.	60° 42.6' N 155° 54.3' E	Fl.W. period 4s		8		
15560 <i>M 8021</i>	Mys Alevina.	58° 50.2' N 151° 20.6' E	L.Fl.W. period 7.5s fl. 3s, ec. 4.5s	190	19	White concrete tower, black bands; 62.	Visible 270° -152° . Reserve light Fl.W. 7.5s 9M.
15561 <i>M 8015</i>	Mys Taran.	59° 06.4' N 151° 06.2' E	Fl.(3)W. period 15s fl. 0.3s, ec. 2.7s fl. 0.3s, ec. 2.7s fl. 0.3s, ec. 8.7s		18		Visible 175° -100° . Reserve light Fl.W. 7.5s 8M.
15561.1	Mys Yuzhnyy.	59° 00.0' N 150° 28.1' E	Fl.W. period 3s		8		
15561.12	-Bukhta Zavlova.	59° 05.5' N 150° 37.1' E	Fl.W. period 4s		8		
15561.4	Ola.	59° 33.7' N 151° 20.1' E	Fl.W. period 3s		4		
15562 <i>M 8011</i>	Mys Chirkova.	59° 29.0' N 150° 30.0' E	Fl.W. period 7.5s	243	19	White octagonal concrete tower; 46.	Visible 126° -050° . Radiobeacon.
15562.2	Bukhta Nosayeva Range, front.	59° 33.8' N 150° 46.0' E	F.R.				
15562.21	-Rear, 400 meters 071° 48' from front.	59° 33.8' N 150° 46.4' E	F.R.				
15563	Ostrov Nedorozumeniy.	59° 34.8' N 150° 21.6' E	Fl.W. period 3s		8		
15564 <i>M 8009</i>	Ostrov Spafar'yeva.	59° 09.9' N 149° 05.8' E	L.Fl.W. period 9s fl. 3s, ec. 6s	285	23	White round tower, red bands; 65.	Visible 263° -013° .097° -156° . Reserve light Fl.W. 9s 8M. Radiobeacon.
15564.1	-NW. point.	59° 12.3' N 149° 03.1' E	Fl.W. period 3s		8		
15566 <i>M 8008.2</i>	Mys Duga Vostochnaya.	59° 09.0' N 146° 03.0' E	Fl.(2)W. period 15s	269	23	Red round metal tower; 112.	Visible 070° -270° . Reserve light range 10M. Radiobeacon.
15566.2 <i>M 8008.1</i>	Mys Ushkalova.	59° 15.0' N 145° 49.6' E	Fl.W. period 4s	161	8	Black tower, white band; 26.	Visible 142° -358° . Radiobeacon.
15566.5	Mys Shilken.	59° 22.7' N 145° 46.3' E	Fl.W. period 2.5s		8		
15566.55	Inya.	59° 22.5' N 144° 43.4' E	Fl.W. period 5s		9		
15568 <i>M 8007</i>	Mys Marekan.	59° 19.2' N 143° 28.7' E	L.Fl.W. period 12s fl. 4.5s, ec. 7.5s	174	20	White round tower, black bands; 112.	Reserve light Fl.W. 12s 10M. Radiobeacon.
15569 <i>M 8006</i>	Kukhtuy.	59° 21.3' N 143° 10.3' E	Fl.W. period 3s fl. 1s, ec. 2s	74	9	Metal framework tower; 57.	
15582 <i>M 7986</i>	Mys Litke.	53° 57.0' N 140° 19.0' E	Fl.W. period 7.5s fl. 1.5s, ec. 6s		17		Visible 305° -176° . Shown June 15 to December 1. Reserve light range 8M. Radiobeacon.
15584 <i>M 7985</i>	Mys Men'shikova.	53° 17.7' N 141° 24.7' E	L.Fl.W. period 7.5s fl. 3s, ec. 4.5s	331	22	White round tower, black bands; 62.	Shown June 5 to November 15. Reserve light range 8M. Radiobeacon.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RUSSIA							
15584.45 <i>M 7679.4</i>	Petunbopovskiy Range, front.	53° 21.1' N 141° 46.3' E	Fl.W. period 3s		14		
15584.46 <i>M 7679.41</i>	-Rear, 2,222 meters 121° 06' from front.	53° 20.5' N 141° 48.0' E	F.W.		14		
15585 <i>M 7910</i>	Mys Moskalvo.	53° 38.9' N 142° 29.6' E	Iso.W. period 3s		18		Radiobeacon about 3 miles S.
15587 <i>M 7679</i>	Mys Marii.	54° 18.6' N 142° 15.8' E	Fl.W. period 6s		17		Visible 066° -210° . Seasonal. Reserve light range 10M.
15588 <i>M 7902</i>	Mys Yelizavety.	54° 25.2' N 142° 43.2' E	Fl.(2)W. period 15s fl. 0.3s, ec. 3.5s fl. 0.3s, ec. 10.9s	240 73	24	White square tower, white stone building; 39.	Visible 111° -338° . Reserve light Fl.W. 3s 8M. Radiobeacon.
15589 <i>M 7904</i>	Mys Vnutrenniy.	53° 34.5' N 142° 28.3' E	Iso.W. period 3s	30 9	7	Round metal tower, black and white bands; 16.	Seasonal. Radar reflector.
15590 <i>M 7903</i>	Platform.	52° 43.0' N 143° 34.1' E	Mo.(U)W. period 15s		15		Horn.
			Mo.(U)R. period 15s		4		
PORT UGLEGORSK							
15717 <i>M 7712</i>	-Pier.	49° 05.8' N 142° 01.9' E	Fl.(2)G. period 5s fl. 1s, ec. 1s fl. 1s, ec. 2s	16 5	1	Green square metal tower, white band; 10.	
15720 <i>M 7714</i>	-Mole, W. head.	49° 04.6' N 142° 01.8' E	Fl.(2)R. period 5s fl. 1s, ec. 1s fl. 1s, ec. 2s	33 10	2	Red metal post, white band; 23.	
15720.1 <i>M 7714.2</i>	-Mole, E. head.	49° 04.6' N 142° 01.9' E	Fl.(2)G. period 5s fl. 1s, ec. 1s fl. 1s, ec. 2s	26 8	1	Green square metal tower, white band; 20.	
15736 <i>M 7704</i>	-L. pier, SW. head.	50° 53.8' N 142° 07.7' E	Fl.R. period 3s	31 9	2	Red metal mast, white band; 26.	
15740 <i>M 7703</i>	-Small spur, NW. head.	50° 53.8' N 142° 07.7' E	Fl.(2)G. period 5s	31 9	1	Green metal mast, white band; 30.	Shown Apr. 15 to Dec. 15.
15744 <i>M 7700</i>	Mys Zhonkiyer.	50° 53.3' N 142° 07.1' E	L.Fl.W. period 33s	259 79	22	White octagonal tower and dwelling; 59.	Visible 029° -171° . Radiobeacon.
AMURSIKY LIMAN:							
15744.2 <i>M 7679.5</i>	-Vereshchaginskiy Range, front.	53° 18.2' N 141° 47.7' E	L.Fl.R. period 5s		10		
15744.21 <i>M 7679.51</i>	--Rear, 556 meters 133° 54' from front.	53° 18.0' N 141° 48.1' E	L.Fl.R. period 5s		10		
15744.26	-Mys Rybnovsk Range, front.	53° 14.5' N 141° 48.1' E	Fl.R.		14		
15744.27	--Rear, 928 meters 028° 54' from front.	53° 15.0' N 141° 48.5' E	Fl.R.		14		
15744.31 <i>M 7682</i>	-Mys Khalezova.	53° 08.8' N 141° 50.4' E	Fl.W.		7		
15744.36 <i>M 7982.2</i>	-Mys Uarke.	52° 30.9' N 141° 12.5' E	Fl.W.		17		
15744.4 <i>M 7982.1</i>	-Mys Tkhadgou Range, front.	52° 15.5' N 141° 20.2' E	Iso.W.		13		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RUSSIA							
15744.41 <i>M 7982.11</i>	--Rear, 1,113 meters 199° 12' from front.	52° 15.0' N 141° 20.0' E	Iso.W.		13		
15744.45 <i>M 7982</i>	-Mys Lazareva.	52° 12.0' N 141° 30.7' E	Iso.W. period 6s	827 252	22	White square tower, black bands; 43.	Seasonal. Reserve light range 8M. Radiobeacon.
15744.46	--Breakwater, head.	52° 12.4' N 141° 33.6' E	Fl.R.		3		
15744.51 <i>M 7685</i>	-Pogibi North Range, front, 1392 meters 114° to common rear.	52° 13.5' N 141° 38.7' E	Iso.R.		12		
15744.52 <i>M 7685.1</i>	--Common rear.	52° 13.2' N 141° 39.7' E	Fl.R.		12		
15744.53	-South Range, front, 742 meters 034° 42' from common rear.	52° 12.8' N 141° 39.4' E	Fl.R.		12		
15744.6 <i>M 7686</i>	-Mys Uanga Range, front.	52° 06.5' N 141° 39.0' E	Iso.W.		12		
15744.61 <i>M 7686.1</i>	--Rear, 369 meters 157° 12' from front.	52° 06.3' N 141° 39.1' E	Iso.W.		11		
	-Amur Reka:						
15745 <i>M 7982.4</i>	--Mys Khuzi Range, front.	52° 41.8' N 141° 14.8' E	Iso.W.		14		
15745.1	---Rear, 1114 meters 230° 18' from front.	52° 41.5' N 141° 14.0' E	Iso.W.		17		
15745.15 <i>M 7982.3</i>	--Mys Dzhaore South Range, front.	52° 39.9' N 141° 16.9' E	L.Fl.W. period 7.5s		14		
15745.16 <i>M 7982.31</i>	---Rear, 334 meters 321° 06' from front.	52° 40.0' N 141° 16.7' E	L.Fl.W. period 7.5s		16		
15745.2 <i>M 7982.35</i>	--Mys Dzhaore N. Range, front.	52° 40.0' N 141° 16.7' E	L.Fl.G. period 7.5s		10		
15745.21 <i>M 7982.351</i>	---Rear, 373 meters 172° 30' from front.	52° 39.8' N 141° 16.8' E	L.Fl.G. period 7.5s		10		
15760 <i>M 7678</i>	Mys Orlova.	51° 25.0' N 140° 53.0' E	L.Fl.(3)W. period 20s fl. 2s, ec. 1s fl. 2s, ec. 1s fl. 2s, ec. 12s	277 84	23	White stone tower, dwelling; 55.	Pilots. Signal station. Radiobeacon.
DE KASTRI:							
15761 <i>M 7677</i>	-Mys Klykova Range, front.	51° 28.0' N 140° 45.8' E	Fl.R. period 3s		14		
15761.1 <i>M 7677.1</i>	--Rear, 0.5 mile 286° 36' from front.	51° 28.2' N 140° 45.0' E	F.R.		14		
15761.2 <i>M 7677.5</i>	-Mys Innokentiya Range, front.	51° 27.3' N 140° 46.9' E	Fl.G. period 3s		10		
15761.21 <i>M 7677.51</i>	--Rear, 0.4 mile 252° from front.	51° 27.3' N 140° 46.9' E	Fl.G. period 3s		10		
15761.3 <i>M 7675</i>	-Mys Nepimentyy.	51° 29.4' N 140° 52.5' E	L.Fl.W. period 5s		9		Visible 240° -067° .
15761.35 <i>M 7676.5</i>	-Ostrov Observatorii.	51° 27.9' N 140° 49.0' E	Q.W.		8		Visible 201° -039° 30' .
15761.4 <i>M 7676</i>	-Jetty, head.	51° 27.9' N 140° 47.0' E	Iso.G. period 4s		2		Visible 190° -120° .

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RUSSIA							
15768 <i>M 7674</i>	Mys Syurkum.	50° 05.6' N 140° 40.8' E	Fl.W. period 8s fl. 0.5s, ec. 7.5s	246 75	17	Round tower, red and white bands; 46.	Visible 110° -350° . Reserve light range 10M.
15776 <i>M 7670</i>	Mys Datta.	49° 17.8' N 140° 25.4' E	L.Fl.W. period 7.5s fl. 3s, ec. 4.5s	279 85	20	White round tower, black band, concrete.	Visible 197° 30' -036° 30' . Reserve light L.Fl.W. 5s 10M. Radiobeacon.
SOVETSKAYA GAVAN:							
15784 <i>M 7643</i>	-Mys Milyutina.	49° 02.6' N 140° 19.5' E	L.Fl.R. period 7.5s fl. 3s, ec. 4.5s	78 24	15	White octagonal tower; 25.	Visible 190° -036° . Reserve light range 5M. Autophone: 3 bl. ev. 30s.
15786 <i>M 7650</i>	-Mys Burnyy.	49° 05.6' N 140° 20.4' E	Fl.W. period 6s		9		
15788 <i>M 7651</i>	-Mys Khoy.	49° 05.5' N 140° 18.8' E	L.Fl.G. period 7.5s		5		Visible 263° -071° .
15790 <i>M 7652</i>	-Mys Yuzhnyy.	49° 04.6' N 140° 18.8' E	Fl.R. period 5s		3		Visible 125° 30' -030° .
15792 <i>M 7653</i>	-Vanina Range, front.	49° 05.4' N 140° 15.8' E	Oc.R. period 3s		12		Visible 220° -340° .
15792.2 <i>M 7653.1</i>	--Middle, 330 meters 280° 06' from front.	49° 05.4' N 140° 15.5' E	Fl.R.		12		Visible 220° -340° .
15792.4 <i>M 7653.2</i>	--Rear, 750 meters 280° 06' from front.	49° 05.4' N 140° 15.2' E	Fl.R.		12		Visible 220° -340° .
15794 <i>M 7654</i>	-Prichal No. 3.	49° 05.3' N 140° 18.0' E	Fl.G. period 5s		2		
15796 <i>M 7660</i>	-Muchkye.	49° 06.1' N 140° 20.5' E	Fl.W. period 5s		4		Visible 063° 30' -316° .
15798 <i>M 7642</i>	-Mys Putyatina.	49° 01.5' N 140° 20.9' E	Oc.W. period 3s		10		Visible 105° -345° .
15812 <i>M 7640</i>	-Mys Krasnyy Partizan.	48° 58.5' N 140° 23.2' E	Fl.(2)W. period 30s fl. 0.7s, ec. 7.1s fl. 0.7s, ec. 21.5s	278 85	23	White octagonal tower on dwelling; 52.	Visible 138° -018° . Reserve light Fl.W. 6s 12M. Autophone: Mo.(R) 30s. Signal station. Radiobeacon.
15820 <i>M 7636</i>	Mys Peschanyy.	48° 27.1' N 140° 10.4' E	Iso.W. period 3s	89 27	15	White round concrete tower; 78.	Visible 185° -053° . Reserve light Iso.W. 3s 10M. Radiobeacon.
15824 <i>M 7634</i>	Mys Krestovozhvizhenskiy.	47° 58.0' N 139° 32.0' E	L.Fl.W. period 7.5s fl. 3s, ec. 4.5s	90 27	10	Red quadrangular framework structure, white base; 37.	
15828 <i>M 7630</i>	Bukhta Nel' ma.	47° 39.4' N 139° 11.5' E	L.Fl.W. period 12s fl. 4.5s, ec. 7.5s	262 80	17	White round metal tower; 26.	Visible 198° -020° . Reserve light L.Fl.W. 12s 7M.
15832 <i>M 7626</i>	Mys Zolotoy.	47° 19.0' N 138° 59.3' E	Iso.W. period 6s	103 31	16	Octagonal stone structure, red and white stripes; 66.	Visible 155° -079° . Reserve light range 7M. Radiobeacon.
15836 <i>M 7622</i>	Mys Sosunova.	46° 32.0' N 138° 20.0' E	Fl.W. period 6s fl. 1.5s, ec. 4.5s	217 66	17	White octagonal masonry tower, black horizontal bands, with gallery; 59.	Reserve light range 10M. Radiobeacon.
15840 <i>M 7618</i>	Mys Belkina.	45° 49.5' N 137° 41.8' E	Iso.W. period 20s	324 99	25	White octagonal masonry tower; 46.	Visible 204° -000° . Reserve light L.Fl.W. 13.5s 12M. Autophone: (117 meters S.) 5 bl. ev. 60s. Radiobeacon.
15844 <i>M 7617</i>	Mys Mayachnyy.	45° 23.1' N 137° 08.7' E	Fl.W. period 6s	394 120	17	Red iron framework structure; 13.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RUSSIA							
15848 <i>M 7616</i>	Mys Strashnyy.	45° 01.9' N 136° 38.8' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	305 93	12	Red square framework tower; 21.	Obscured 244° -249° .
15852 <i>M 7614</i>	Mys Yegorova.	44° 46.4' N 136° 26.9' E	L.Fl.W. period 12s fl. 4.5s, ec. 7.5s	302 92	22	White round metal tower, black bands; 62.	Reserve light L.Fl.W. 12s 9M. Radiobeacon.
15854 <i>M 7613</i>	Yakubovskogo.	44° 43.8' N 136° 20.2' E	Iso.R. period 4s	318 97	6	White square masonry tower, red band; 23.	Visible 060° -340° . Reserve light range 4M.
15856 <i>M 7612</i>	Zaliv Oprichnik.	44° 26.9' N 136° 02.1' E	L.Fl.W. period 7.5s fl. 3s, ec. 4.5s	702 214	23	White octagonal stone tower; 46.	Reserve light L.Fl.W. 12s 6M.
15860 <i>M 7610</i>	Mys Brinera.	44° 20.6' N 135° 50.4' E	Fl.(2)W. period 7s fl. 0.2s, ec. 1.8s fl. 0.2s, ec. 4.8s	220 67	22	White octagonal masonry tower; 50.	Visible 182° -172° . Reserve light Oc.W. 7.5s 9M. Radiobeacon.
15864 <i>M 7608</i>	Mys Yuzhnyy.	44° 02.0' N 135° 38.0' E	Fl.W. period 3s fl. 1s, ec. 2s	290 88	9	White octagonal masonry tower; 15.	
ZALIV VLADIMIRA:							
15868 <i>M 7604</i>	-Mys Balyuzek.	43° 55.0' N 135° 31.0' E	Fl.(3)W. period 15s	262 80	23	White square masonry tower, red cupola and white stone building; 46.	Reserve light L.Fl.W. 20s 8M. Nautophone: 3 bl. ev. 30s. Radiobeacon.
15880 <i>M 7596</i>	-Mys Sobora.	43° 46.1' N 135° 26.2' E	Fl.R. period 4s fl. 1.5s, ec. 2.5s	420 128	5	Red quadrangular iron framework tower; 26.	
15896 <i>M 7588</i>	-Ostrov Chikhacheva.	43° 40.6' N 135° 16.8' E	L.Fl.W. period 7.5s fl. 3s, ec. 4.5s	364 111	23	White square tower on dwelling; 39.	Reserve light range 9M.
15900 <i>M 7584</i>	Mys Nizmennyy.	43° 30.4' N 135° 09.3' E	Fl.(3)W. period 7.5s	206 63	18	White octagonal tower on white building; 59.	Radiobeacon.
15908 <i>M 7581</i>	Mys Dal'niy.	43° 18.8' N 134° 46.5' E	Iso.W. period 6s	608 185	19	Red octagonal stone tower adjacent to single story white building; 47.	Reserve light Iso. W. 6s 8M.
15909 <i>M 7579.5</i>	Mys Titova.	43° 06.2' N 134° 18.8' E	Fl.W. period 3s		10		
15909.5 <i>M 7579</i>	Ostrov Opasnyy.	43° 01.9' N 134° 11.0' E	Fl.W. period 4s		7		
15920 <i>M 7578</i>	Ostrov Orekhova, SW. part of island.	42° 53.6' N 133° 52.9' E	Iso.R. period 3s	200 61	13	White octagonal stone tower; 26.	Reserve light Iso.R. 3s 6M.
15924 <i>M 7576</i>	Mys Ostrovnoy.	42° 48.7' N 133° 43.4' E	Iso.W. period 3s	512 156	19	White metal framework tower, white building; 36.	Reserve light Iso.W. 3s 10M. Radiobeacon.
15926 <i>M 7574</i>	Mys Yakimova.	42° 49.0' N 133° 30.9' E	Fl.R.				
15934 <i>M 7573</i>	Bugristyy.	42° 42.5' N 133° 11.9' E	Fl.(3)R. period 10s fl. 0.1s, ec. 1.2s fl. 0.1s, ec. 1.2s fl. 0.1s, ec. 7.3s	387 118	14	Red round column with platform; 25.	Radar reflector.
ZALIV NAKHODKA:							
15936 <i>M 7572</i>	-Mys Povorotnyy.	42° 40.6' N 133° 02.5' E	Oc.W. period 8s lt. 6s, ec. 2s	219 67	22	White octagonal stone tower; 42.	Visible 262° 30' -127° 30' . Reserve light range 12M. Signal station. Radiobeacon.
15940 <i>M 7569</i>	-Mys Kamenskogo.	42° 45.5' N 133° 03.1' E	Fl.W.R.G. period 3s fl. 1s, ec. 2s	30 9	7	White octagonal stone tower; 16.	W.-230° -048° , G.-063° , R- 079° , W.-133° .

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RUSSIA							
15942 <i>M 7570</i>	-Beregovoy.	42° 46.4' N 133° 02.7' E	Fl.Y. period 4s fl. 0.5s, ec. 3.5s	187 57	4	Red metal tower; 26.	
15944 <i>M 7563.2</i>	-Mys Nepristupnyy.	42° 47.8' N 133° 00.3' E	Iso.W. period 6s	100 30	16	Octagonal brick tower, lower part and lantern white, upper part and dome red-orange, on white house; 47.	Calibration Radiobeacon.
15948 <i>M 7562</i>	-Mys Erzhikovicha, Ostrov Lisiy, S. extremity.	42° 45.3' N 132° 54.0' E	L.Fl.W. period 6s fl. 2s, ec. 4s	286 87	7	Red quadrangular framework, white tower; 17.	Visible 242° -169° .
15952 <i>M 7563</i>	-Mys Shvedova.	42° 48.2' N 132° 54.6' E	Oc.W. period 7.5s lt. 4.5s, ec. 3s	143 44	18	White octagonal stone tower; 23.	Reserve light Oc.W. 7.5s 9M.
15956 <i>M 7567</i>	-Mys Astafyeva.	42° 48.5' N 132° 54.5' E	L.Fl.G. period 7.5s fl. 3s, ec. 4.5s	68 21	8	Octagonal concrete tower, black and white bands; 61.	Visible 049° -324° .
15958 <i>M 7567-7</i>	-Bukhta Kozmina, Mys Krylova.	42° 42.8' N 133° 00.0' E	Fl.W.R.G. period 3s fl. 1s, ec. 2s	289 88	7	Red square metal framework tower, red and white bands; 66.	W.-327° -141° , R.-153° , G.-173° , R.-191° 30' , W.-244° 30' .
15960 <i>M 7564</i>	-Nakhodka Approach Range, front.	42° 50.4' N 132° 56.4' E	Iso.R. period 6s	36 11	12	White stone building, black median stripe; 43.	Visible 358° 30' -001° 30' . Radiobeacon.
15964 <i>M 7564.1</i>	--Rear, 1574 meters 000° from front.	42° 51.2' N 132° 56.3' E	FR.	121 37	10	White quadrangular stone structure, black median stripe; 52.	Visible 358° 30' -001° 30' .
15965 <i>M 7568.5</i>	Ozero Vtoroye entrance, N. side.	42° 43.0' N 133° 01.4' E	Fl.(2)R. period 5s fl. 1s, ec. 1s fl. 1s, ec. 2s	20 6	2	Red round metal tower, white stripe with platform; 13.	
15965.1 <i>M 7568.4</i>	-S. side.	42° 43.0' N 133° 01.4' E	Fl.(2)G. period 5s fl. 1s, ec. 1s fl. 1s, ec. 2s	23 7	1	Green round metal tower, white stripe with platform; 17.	
15968 <i>M 7566</i>	--Harbor entrance Range, front.	42° 48.7' N 132° 53.1' E	FR. (neon)	118 36	6	White octagonal tower, black median stripe; 52.	Visible on range line only. Reserve light Q.R. 6M.
15972 <i>M 7566.1</i>	---Rear, 130 meters 267° 54' from front.	42° 48.7' N 132° 53.0' E	FR. (neon)	154 47	6	White octagonal tower, black median stripe; 23.	
15992 <i>M 7563.4</i>	-Bukhta Chadaudzha, entrance Range, front.	42° 46.3' N 132° 52.9' E	Iso.G. period 3s	364 111	6	White square masonry tower, black stripe; 20.	Visible 251° 48' -286° 48' .
15996 <i>M 7563.41</i>	--Rear, 347 meters 269° 18' from front.	42° 46.3' N 132° 52.7' E	Iso.G. period 3s	489 149	6	White square masonry tower, black stripe; 20.	Visible 251° 48' -286° 48' .
16000 <i>M 7563.6</i>	--Pier, head.	42° 46.3' N 132° 53.6' E	Iso.R. period 3s	35 11	2	Red metal round structure; 22.	
16004 <i>M 7558</i>	-Mys Likhacheva.	42° 44.1' N 132° 51.0' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	201 61	9	White octagonal stone tower; 18.	
16008 <i>M 7538</i>	Ostrov Trambetskogo.	42° 50.4' N 132° 32.3' E	Fl.W. period 3s	66 20	9	White octagonal stone tower; 20.	Radar reflector.
16052 <i>M 7532</i>	Mys Yelagina.	42° 43.8' N 132° 20.5' E	Fl.W. period 6s fl. 1.5s, ec. 4.5s	371 113	22	White octagonal stone tower, red lantern; 25.	Visible 264° -126° . Reserve light range 9M. Radiobeacon.
16053 <i>M 7533</i>	-Mys Stupenchatyy.	42° 46.8' N 132° 20.4' E	Fl.W. period 8s		7		
16054 <i>M 7534</i>	Mys Ogorodnyy.	42° 48.8' N 132° 21.7' E	Fl.W. period 5s	144 44	9		
16056 <i>M 7528</i>	Mys Sysoyeva.	42° 50.8' N 132° 19.0' E	Iso.W. period 3s		19		
16160 <i>M 7498</i>	Ostrova Verkhovskogo, SE. island.	42° 53.0' N 131° 48.6' E	Fl.(3)W. period 10s	124 38	11	White octagonal stone tower; 24.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RUSSIA							
VLADIVOSTOK:							
16166 M 7470	-Ostrov Skrypleva.	43° 01.7' N 131° 57.1' E	Fl.R. period 15s	177 54	20	White square stone tower; 39.	Visible 128° -030° . Reserve light range 6M. Radiobeacon.
16167 M 7471	-Mys Basargina.	43° 03.5' N 131° 57.8' E	Oc.G. period 7.5s	92 28	10	White octagonal stone tower, red bands; 26.	Visible 193° -092° . Reserve light range 6M.
16169 M 7472	-Proliv Bosfor Vostochny Range, front.	43° 05.0' N 131° 51.3' E	F.R.	105 32	15	White building with lantern on square tower; 49.	Visible 289° 30' -309° 30' . Reserve light range 8M.
	-RACON		X (- • • -) period 30s		15		Azimuth coverage 073° -203° .
16169.1 M 7472.01	--Middle, 125 meters 299° 30' from front.	43° 05.1' N 131° 51.2' E	Oc.R. period 3s	164 50	15	White octagonal stone tower, black stripe, on square base; 49.	Visible 289° 30' -309° 30' .
16169.2 M 7472.02	--Rear, 520 meters 299° 30' from front.	43° 05.2' N 131° 51.0' E	F.R.	226 69	15	White octagonal stone tower, black stripe, on square base; 49.	Visible 289° 30' -309° 30' .
16169.3 M 7473	-Mys Balka.	43° 01.8' N 131° 54.9' E	L.F.I.R.G. period 5s	69 21	R. 3 G. 2	White quadrangular metal framework pyramid; 10.	R. 357° -162° 30' , G.-357° .
16169.7 M 7474	-Bukhty Uliss Range, front.	43° 04.8' N 131° 55.5' E	F.G.	59 18	2	White trapezoid, red stripe; 16.	Visible 049° -069° .
16169.8 M 7474.01	--Rear, 87 meters 058° 24' from front.	43° 04.8' N 131° 55.5' E	Iso.G. period 3s	108 33	2	White trapezoid, red stripe; 16.	
16169.91 M 7478	-Mys Rosetta.	43° 05.2' N 131° 50.9' E	Oc.G. period 15s	217 66	5	Lantern on white stone building; 13.	Visible 045° -227° .
16169.92 M 7479	-Tokarevskogo.	43° 04.3' N 131° 50.6' E	L.F.I.W.R. period 7.5s	39 12	12	White stone tower with lantern; 39.	W. 237° 30' -125° 30' , R.-165° 30' .
16170 M 7480	-Mys Pospyelovskiy, W. approach Range, front.	43° 03.7' N 131° 53.4' E	Oc.R. period 3s	26 8	10	Metal framework tower with platform, white diamond daymark, black stripe; 33.	Visible 092° -112° .
16170.1 M 7480.01	--Rear, 225 meters 103° 30' from front.	43° 03.7' N 131° 53.5' E	Oc.R. period 3s	52 16	10	Metal framework tower with platform, white diamond daymark, black stripe; 39.	Visible 092° -112° .
16170.18 M 7482	-Torpedo Boat Canal Entrance, W. side.	43° 03.7' N 131° 50.6' E	Fl.G. period 3s	20 6	1	Green round metal column with platform; 16.	E. side marked by Fl.R. light. Radar reflector.
16170.25 M 7440	-Prednozhnoye Range, front.	43° 02.8' N 131° 49.2' E	Oc.W. period 3s	16 5	3	Metal framework tower, white trapezoid daymark, black stripe; 20.	Visible 164° 30' -171° .
16170.26 M 7440.1	--Rear, 220 meters 167° 48' from front.	43° 02.6' N 131° 49.3' E	F.W.	43 13	3	Metal framework tower, white trapezoid daymark, black stripe; 20.	Visible 157° 48' -177° 48' .
AMURSUKEY ZALIV:							
16170.3 M 7435.5	-Mys Vasileva.	43° 00.2' N 131° 45.4' E	Fl.W. period 3s	141 43	6	White octagonal stone tower; 16.	Visible 024° -278° .
16170.35 M 7438	-Ostrov Ushi.	43° 03.8' N 131° 48.4' E	Fl.R. period 2s	43 13	3	Red metal framework pyramid; 10.	
16170.4 M 7436	-Mys Firsova.	43° 10.3' N 131° 53.8' E	Iso.W.R. period 3s	85 26	W. 15 R. 8	White square metal pyramid, platform, on white square concrete base; 23.	R002° 36' -050° W.-205° 30' .
16172 M 7434	Mys Bryusa.	42° 52.8' N 131° 28.1' E	Iso.W.R.G. period 12s	217 66	W. 21 R. 15 G. 10	White square stone tower on hut; 33.	G. 099° -216° , W.-234° , R.-306° , W.-342° , G.-046° . Reserve light Iso R 3s 6M. Radiobeacon.
16188 M 7430	Mys Klerka.	42° 46.0' N 131° 22.0' E	Fl.R. period 4s fl. 1s, ec. 3s	246 75	4	White hexagonal masonry tower; 13.	Visible 185° -150° .

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RUSSIA							
16192 <i>M 7428</i>	Ostrova Rimskogo-Korsakova.	42° 40.0' N 131° 28.0' E	Fl.W. period 3s	662 202	9	Red iron framework structure; 10.	
16196 <i>M 7422</i>	Mys Gamova.	42° 33.2' N 131° 13.0' E	Fl.(2)W. period 15s	223 68	22	White stone tower and dwelling; 63.	Visible 197° -070° . Reserve light Fl.W. 3s 10M. Signal station. Radiobeacon.
16198 <i>M 7420</i>	Russia, N. Korea Maritime Border Range, front.	42° 19.1' N 130° 40.0' E	Oc.W.R.G. period 4s		W. 18 R. 10 G. 10		W230° -300° 48' G.-310° 48' , W.-320° 48' ,R.-330° 48' , W.-050° .
16198.1 <i>M 7420.01</i>	-Rear, 2778 meters 315° 48' from front.	42° 20.2' N 130° 38.6' E	F.W.		19		

Section 10

Korea

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
NORTH KOREA							
16200 <i>M 4570</i>	Nan Do.	42° 13.8' N 130° 31.7' E	Fl.W. period 14s	138 42	17	White square concrete tower; 36.	Visible 237° -193° . Siren.
16204 <i>M 4590</i>	Ogaram San, about 914 meters NNE. of Ogaram Dan.	42° 16.5' N 130° 38.0' E	F.G.	180 55	8	White square metal tower, concrete base; 21.	Visible shore-298° , 087° - 124° Horn.
SOSURA HANG:							
16208 <i>M 4582</i>	-E. breakwater, head.	42° 16.5' N 130° 35.7' E	F.W.	19 6	7	White iron column, concrete base; 17.	
16212 <i>M 4584</i>	-W. breakwater, head.	42° 16.4' N 130° 36.0' E	F.R.	19 6	6	Red iron column, concrete base; 17.	
UNGGI MAN:							
16216 <i>M 4578</i>	-E. breakwater, head.	42° 19.9' N 130° 24.2' E	F.G.	33 10	4	Red iron structure, concrete base; 15.	
16220 <i>M 4574</i>	-W. breakwater, head.	42° 19.8' N 130° 24.1' E	F.R.	20 6	6	White iron structure, concrete base; 18.	
16224 <i>M 4576</i>	-Detached breakwater, W. head.	42° 19.7' N 130° 24.2' E	F.R.	21 6	8	Red iron structure, concrete base; 17.	
16228 <i>M 4568</i>	Kwak Tan.	42° 15.0' N 130° 24.1' E	Fl.W. period 12s	200 61	13	White square concrete structure; 25.	Visible 198° -050° . Horn.
NAJIN MAN:							
16232 <i>M 4558</i>	-Toech'o Do.	42° 08.9' N 130° 16.7' E	Fl.(3)W. period 25s	394 120	27	White square concrete tower; 41.	Visible 228° -142° . Siren: 1 bl. ev. 45s. Signal station.
16234 <i>M 4560.8</i>	-Detached breakwater.	42° 14.1' N 130° 18.3' E	F.R.	17 5	1		
16248 <i>M 4556</i>	-Oryong Am, NE. side of Injin Man.	42° 04.5' N 130° 07.8' E	Fl.(2)W. period 6s	60 18	12	Black round concrete structure; 54.	
16252 <i>M 4540</i>	Komalsan Dan.	41° 45.6' N 129° 51.0' E	L.Fl.W. period 6s	194 59	20	White hexagonal brick structure; 46.	Visible 222° -091° . Siren: 1 bl. ev. 45s.
CHONGJIN:							
16260 <i>M 4542</i>	-Dong Hang, breakwater, head.	41° 46.5' N 129° 49.3' E	F.G.	45 14	8	Red round concrete structure; 36.	
16262 <i>M 4543</i>	--SW. corner of W. pier.	41° 46.6' N 129° 49.3' E	Oc.R.				
16264 <i>M 4544</i>	--E. pier, head.	41° 46.5' N 129° 49.8' E	F.R.	23 7	2	Red metal column on concrete base; 18.	
16268 <i>M 4546</i>	-So Hang, breakwater, head.	41° 44.8' N 129° 46.3' E	F.G.	49 15	5		
16269 <i>M 4547</i>	--Root.	41° 45.3' N 129° 46.2' E	F.R.		2		

The existence and operation of all navigational aids should be considered unreliable on the east coast of North Korea.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
NORTH KOREA							
16272 <i>M 4534</i>	Orang Dan.	41° 22.5' N 129° 48.5' E	Iso.W. period 4s	151 46	18	White round brick tower; 28.	Visible 125° -005° . Siren.
16276 <i>M 4536</i>	Odaejin Hang, N. breakwater, head.	41° 23.2' N 129° 46.7' E	F.R.	23 7	8	White round iron pillar; 19.	
16276.5 <i>M 4533</i>	Koeadan.	41° 19.0' N 129° 46.5' E	Oc.W. period 13s	308 94	10	Beacon.	
16277 <i>M 4531</i>	Unmandae Dan.	40° 56.4' N 129° 45.7' E	Fl.W. period 14s	390 119	10		Horn.
16278 <i>M 4532</i>	Ryanghwa.	41° 12.2' N 129° 44.0' E	Fl.W. period 3s	157 48	18		Horn.
16280 <i>M 4530</i>	Musu Dan.	40° 50.0' N 129° 43.2' E	Fl.(2)W. period 15s	272 83	23	White round concrete structure; 28.	Visible 206° -092° . Siren.
KIMCH'AEK:							
16284 <i>M 4516</i>	-Songjin Peninsula.	40° 39.5' N 129° 12.8' E	Iso.W. period 6s	180 55	20	White octagonal concrete structure; 25.	Visible 161° -023° .
16288 <i>M 4522</i>	-S. breakwater, head.	40° 39.7' N 129° 12.4' E	F.R.	26 8	5	White iron column, concrete base; 15.	Visible 025° -295° .
16292 <i>M 4524</i>	-N. breakwater, head.	40° 39.7' N 129° 12.4' E	F.R.	16 5	4	Red iron column, concrete base; 15.	
16296 <i>M 4520</i>	-Lumber storage, S. breakwater, head.	40° 40.2' N 129° 12.5' E	F.G.	22 7	5	White round iron column; 15.	
16300 <i>M 4526</i>	-Fishing harbor, S. of peninsula, breakwater, head.	40° 39.4' N 129° 12.2' E	F.G.	26 8	5	White round iron structure; 20.	
16301 <i>M 4514</i>	Yongdae Gap.	40° 28.3' N 129° 04.0' E	L.Fl.W. period 9s	200 61	12		
16302 <i>M 4514.4</i>	-Breakwater.	40° 28.7' N 129° 03.5' E	F.R.	20 6	2		
16303 <i>M 4513</i>	Sabvjin, breakwater, head.	40° 24.5' N 128° 55.3' E	F.R.	43 13	1		
16304 <i>M 4512</i>	Ch'aho Hang, E. side of bay, peninsula, head.	40° 12.0' N 128° 39.7' E	F.W.	77 23	7	White iron structure surmounted by metal pole; 66.	Fishing light. Horn.
16305 <i>M 4512.2</i>	Chonchodo.	40° 11.5' N 128° 39.5' E	Iso.W. period 6s	299 91	12	Beacon.	
16306 <i>M 4510.4</i>	Song Do Gap.	40° 01.7' N 128° 19.6' E	L.Fl.W. period 7s	194 59	12		
16306.1 <i>M 4511.4</i>	Shinchang Hang.	40° 08.0' N 128° 28.4' E	F.G.	20 6	2		
16307 <i>M 4510.6</i>	Tonghodong.	40° 04.3' N 128° 16.3' E	F.R.	10 3	1		
16308 <i>M 4510</i>	Mayang Do (Bayo To).	39° 59.6' N 128° 13.7' E	Fl.(4)W. period 22s	223 68	16	White octagonal concrete tower; 27.	Visible 196° -058° , obscured by Song Do Gap when bearing less than 236° .
16308.5 <i>M 4506.5</i>	Ansong Gap.	39° 53.3' N 127° 52.7' E	L.Fl.W. period 7s	285 87	13	White hexagonal concrete tower; 26.	Visible 200° -160° .
16309 <i>M 4508</i>	Songnyong Man.	40° 01.5' N 127° 59.5' E	F.R.	49 15	8		Horn.
16310 <i>M 4507</i>	Chuk Do.	39° 58.8' N 127° 57.0' E	F.R.	49 15	8		Horn.
16312 <i>M 4506</i>	Sohojin.	39° 48.2' N 127° 39.9' E	Fl.(2)W. period 30s	161 49	18	White round concrete structure; 24.	Visible 198° -133° . Siren.

The existence and operation of all navigational aids should be considered unreliable on the east coast of North Korea.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
NORTH KOREA							
16316 <i>M 4492</i>	Hungnam, breakwater.	39° 49.3' N 127° 38.0' E	F.R.	39 12	2		
16320 <i>M 4494</i>	-Harbor wall.	39° 49.8' N 127° 37.7' E	F.G.				
16322 <i>M 4495</i>	-Breakwater.	39° 49.0' N 127° 39.2' E	F.R.	26 8	2	Metal post; 10.	F.G. 2M marks S. breakwater head 80 meters SE.
16323 <i>M 4490</i>	Kwangsunggotchi.	39° 31.6' N 127° 31.6' E	L.FI.W. period 9s	151 46	8		Horn.
YONGHUNG MAN:							
16324 <i>M 4488</i>	-Sokkun Som.	39° 17.2' N 127° 33.9' E	FI.W. period 7s	82 25	9	Round concrete beacon, black and red bands; 55.	Horn.
16325 <i>M 4487</i>	-Yubundo.	39° 17.3' N 127° 31.7' E	FI.W. period 3.5s	121 37	5	Beacon.	
16326 <i>M 4485</i>	Yongjin.	39° 17.9' N 127° 24.3' E	L.FI.W. period 12s	213 65	8	White square framework tower.	Visible 130° -086°.
16328 <i>M 4474</i>	Worhyanam.	39° 15.0' N 127° 34.4' E	FI.W. period 5s	56 17	6		
16332 <i>M 4472</i>	Yo Do.	39° 13.5' N 127° 38.2' E	Oc.W. period 20s	220 67	20	White octagonal concrete structure; 27.	
16340 <i>M 4480</i>	Wonsan Hang, Changdok To.	39° 10.5' N 127° 26.5' E	FI.W. period 5.5s	82 25	5		
16344 <i>M 4484.5</i>	-Dolphin.	39° 09.5' N 127° 27.6' E	F.R.		2		
16348 <i>M 4484</i>	-Gensanri fishing harbor, breakwater, head.	39° 09.3' N 127° 27.0' E	F.G.	25 8	2	Red iron pole, concrete base; 21.	
16350	Apryongdan.	39° 07.9' N 127° 44.3' E	FI.W. period 10s		8		
16352 <i>M 4468</i>	Ch'ongsok Tan.	38° 57.8' N 127° 54.8' E	FI.(2)W. period 30s	128 39	18		Visible 158° -010°.
16356 <i>M 4466</i>	Kojo P'o, breakwater, head.	38° 57.2' N 127° 53.5' E	F.R.	36 11	3	White square iron framework structure; 27.	
16358 <i>M 4465</i>	Sol Som.	38° 51.5' N 128° 03.7' E	L.FI.W. period 25s	216 66	16		
16359 <i>M 4462</i>	Changadaedan.	38° 45.1' N 128° 16.0' E	FI.(2)W. period 18s	246 75	18	White octagonal concrete tower; 46.	Visible 158° -203°.
16360 <i>M 4464</i>	Changjon Man.	38° 44.5' N 128° 12.3' E	Iso.W. period 7s	269 82	18	White square iron framework structure, concrete base; 21.	
16362 <i>M 4464.5</i>	Changjon Hang, breakwater.	38° 44.0' N 128° 11.9' E	F.G.	16 5	3	White round concrete tower; 10.	
16364 <i>M 4461</i>	Suwon Dan.	38° 40.9' N 128° 21.7' E	FI.(2)W. period 15s 2 fl. 3s, ec. 12s	134 41	17	White octagonal concrete structure; 56.	Siren: 1 bl. ev. 60s.

The existence and operation of all navigational aids should be considered unreliable on the east coast of North Korea.

SOUTH KOREA

16365 <i>M 4460</i>	Chojin Dan Range , front.	38° 33.0' N 128° 24.6' E	F.W.	203 62	24	Red and white square concrete tower; 114.	Horn: 4 bl. ev. 60s.
16365.1 <i>M 4460.1</i>	-Rear, 270° from front.	38° 33.0' N 128° 23.9' E	F.W.	377 115	24	Red and white square concrete tower; 65.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
16366	Chojin Dan, RACON.	38° 33.0' N 128° 24.5' E	Q(- - • -)		10		Azimuth coverage 270° - 315°.
16369 M 4459.9	Taejin.	38° 30.2' N 128° 25.9' E	Fl.W. period 12s	201 61	20	White octagonal concrete tower; 102.	Horn: 1 bl. ev. 20s.
16374 M 4459.75	-N. breakwater, head.	38° 29.8' N 128° 25.9' E	Fl.R. period 5s	52 16	6	Red round concrete tower; 33.	
16376 M 4459.7	-S. breakwater, head.	38° 29.9' N 128° 25.8' E	Fl.G. period 5s	46 14	5	White square steel tower; 36.	
16376.5 M 4459.45	Kajin Hang, breakwater.	38° 22.0' N 128° 30.8' E	Fl.R. period 5s	33 10	5	Red square metal tower; 21.	
16376.7 M 4458.7	Pongpo Hang, breakwater.	38° 15.0' N 128° 34.2' E	Fl.R. period 5s	33 10	5	Red square metal tower; 23.	
16377 M 4459.43	Gonghyeonjin.	38° 21.3' N 128° 30.8' E	Fl.(4)Y. period 8s	36 11	7	Yellow staff; 20.	
16378 M 4459.3	Oho Ri.	38° 19.6' N 128° 32.0' E	Fl.W. period 5s	89 27	12	White round concrete tower; 33.	
16379 M 4459.4	Oho Hang, breakwater.	38° 19.3' N 128° 32.0' E	Fl.R. period 5s	43 13	5	Red round concrete tower; 33.	
16380 M 4459	Ayajin-ni.	38° 16.3' N 128° 33.4' E	Fl.W. period 6s	75 23	8	White tower; 26.	Visible 175° -327°.
16384 M 4459.1	-N. breakwater.	38° 16.2' N 128° 33.7' E	Fl.R. period 5s	56 17	5	Red round concrete tower; 33.	
16385 M 4459.15	-S. breakwater.	38° 16.2' N 128° 33.6' E	Fl.G. period 5s	43 13	5	White round concrete tower; 33.	
			F.W.				Visible 310° -351° (over rock).
16386 M 4459.2	Munam Hang, N. breakwater.	38° 18.1' N 128° 33.0' E	Fl.R. period 4s	36 11	5	Red metal tower; 20.	
16386.1 M 4459.25	-S. breakwater.	38° 17.7' N 128° 33.1' E	Fl.R. period 6s	33 10	5	Red metal tower; 20.	
16387 M 4459.65	Chodo Hang, breakwater.	38° 29.1' N 128° 26.4' E	Fl.R. period 4s	33 10	5	Red metal tower; 20.	
16388 M 4459.5	Kojin-ni.	38° 27.0' N 128° 28.0' E	Al.Fl.W.R. period 32s	285 87	W. 22 R. 19	White round concrete tower; 38.	Visible 160° -333°. Horn: 1 bl. ev. 30s.
16392 M 4459.6	-E. breakwater, S. head.	38° 26.4' N 128° 27.7' E	Fl.R. period 4s	52 16	6	Red round concrete tower; 28.	
16396 M 4459.54	-W. breakwater, head.	38° 26.4' N 128° 27.6' E	Fl.G. period 5s	36 11	5	White round concrete tower; 30.	
16396.5 M 4458.63	Sajin Hang, breakwater.	38° 13.5' N 128° 35.5' E	Fl.R. period 5s	33 10	5	Red metal tower; 20.	
16397 M 4458.64	-SW.	38° 13.5' N 128° 35.4' E	Fl.G. period 5s	39 12	5	White round concrete tower; 33.	
16404 M 4458	Sokch'o.	38° 12.8' N 128° 36.0' E	Fl.(4)W. period 45s	217 66	19	White round concrete tower; 92.	Visible 160° -005°. Siren: 1 bl. ev. 45s (bl. 5s, si. 40s).
16406 M 4458.1	-E.	38° 12.2' N 128° 36.8' E	Q.W.	52 16	7	N. CARDINAL BY, beacon, topmark; 66.	
16408 M 4458.3	Sokch'o Hang, N. breakwater.	38° 12.2' N 128° 36.2' E	Fl.R. period 4s	59 18	12	Red metal pipe; 36.	
16409.5 M 4458.4	-S. breakwater.	38° 12.1' N 128° 35.9' E	Fl.(2)G. period 6s	33 10	8	White round steel tower.	
16410 M 4458.45	-W. breakwater.	38° 12.1' N 128° 35.8' E	Fl.(2)R. period 6s	30 9	8	Red round steel tower.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
16410.5 <i>M 4458.605</i>	-A.	38° 12.3' N 128° 35.6' E	Fl.(4)Y. period 8s	23 7	7	Yellow spar, X topmark; 3.	
16411 <i>M 4458.606</i>	-C.	38° 12.3' N 128° 35.6' E	Fl.(4)Y. period 8s	56 17	7	Yellow spar; 7.	
16412 <i>M 4458.6</i>	-NW. breakwater.	38° 12.4' N 128° 36.0' E	Fl.G. period 4s	36 11	10	White round concrete tower; 26.	F.W. 12m spotlight, visible 093° -099°.
16414 <i>M 4458.2</i>	Jodo (Cho-do).	38° 11.9' N 128° 36.8' E	Fl.W. period 6s	118 36	12	White round concrete tower; 49.	
16416 <i>M 4458.15</i>	-E.	38° 12.0' N 128° 37.4' E	Q.(6)+L.Fl.W. period 15s	52 16	8	S. CARDINAL YB, beacon, topmark; 72.	
	-RACON		X(- • • -)		10		(3 & 10 cm).
16418 <i>M 4458.18</i>	-SW.	38° 11.6' N 128° 36.5' E	Fl.(2)G. period 6s	46 14	4	Green round concrete tower, green square daymark; 82.	
16420 <i>M 4457</i>	Taep'o Hang.	38° 10.3' N 128° 36.6' E	Fl.R. period 4s	43 13	6	Red round concrete structure; 36.	
16421 <i>M 4456.9</i>	Mulchi Hang, E. breakwater.	38° 09.2' N 128° 36.7' E	Fl.R. period 5s	46 14	5	Red round concrete tower; 36.	
16422 <i>M 4456.93</i>	-W. breakwater.	38° 09.2' N 128° 36.7' E	Fl.G. period 5s	49 15	5	White round concrete tower; 33.	
16423 <i>M 4456.85</i>	Hujin Hang.	38° 07.9' N 128° 37.5' E	Fl.R. period 4s	33 10	5	Red square metal tower; 20.	
16423.1 <i>M 4456.8</i>	Jeonjin Hang.	38° 07.4' N 128° 38.1' E	Fl.R. period 5s	33 10	5	Red metal tower; 20.	
16424 <i>M 4456.5</i>	Susan Dan.	38° 04.8' N 128° 40.7' E	Fl.W. period 5s	240 73	12	White round tower; 23.	
16428 <i>M 4456</i>	Kisamun Dan.	38° 01.3' N 128° 44.1' E	Fl.W. period 6s	106 32	12	White round concrete tower; 33.	
16429 <i>M 4456.2</i>	Gisamun Hang.	38° 00.4' N 128° 44.0' E	Fl.R. period 6s	36 11	5	Red square steel tower; 21.	
16430 <i>M 4455.6</i>	Dongsan Hang.	37° 58.7' N 128° 45.8' E	Fl.R. period 4s	36 11	5	Red square steel tower; 21.	
16431 <i>M 4455.5</i>	Ingu Hang, breakwater.	37° 58.2' N 128° 45.9' E	Fl.R. period 5s	33 10	5	Red square metal tower; 20.	
16432 <i>M 4455</i>	Namae Hang.	37° 56.5' N 128° 47.5' E	Fl.R. period 4s	46 14	6	Red iron tower; 33.	
16433 <i>M 4455.4</i>	-Namae Hang, S. breakwater.	37° 56.4' N 128° 47.4' E	Fl.G. period 4s	36 11	5	White round concrete tower.	
16435.1 <i>M 4449.9</i>	Uamjin Hang, breakwater.	37° 54.2' N 128° 49.9' E	Fl.R. period 5s	33 10	5	Red square metal tower; 23.	
CHUMUNJIN HANG:							
16436 <i>M 4450</i>	-Chumunjin Dan.	37° 53.9' N 128° 50.0' E	Fl.W. period 15s	131 40	20	White round brick tower; 33.	Visible 148° -025°. Siren: 1 bl. ev. 60s. (bl. 5s, si. 55s). DGPS Station.
16440 <i>M 4452</i>	-E. breakwater, head.	37° 53.2' N 128° 50.0' E	Fl.R. period 4s	46 14	6	Red round concrete tower; 32.	
	-RACON		Z(- - • •)				
16444 <i>M 4452.5</i>	--W. breakwater, head.	37° 53.1' N 128° 50.0' E	Fl.G. period 4s	36 11	5	White round concrete tower; 28.	
16448 <i>M 4453</i>	-No. 2 jetty, head.	37° 52.9' N 128° 50.1' E	Fl.G. period 6s	40 12	5	White round concrete tower; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
16449 <i>M 4449.3</i>	-Breakwater, head.	37° 38.7' N 129° 03.2' E	Fl.R. period 5s	52 16	6	Red round concrete tower; 33.	
16450 <i>M 4449.35</i>	-Groin, head.	37° 38.8' N 129° 03.1' E	Fl.G. period 5s	39 12	5	White round concrete tower; 33.	
16451 <i>M 4449.8</i>	Sach'onjin Hang, N. breakwater.	37° 49.9' N 128° 52.9' E	Fl.R. period 5s	49 15	5	Red round concrete tower; 33.	
16451.5 <i>M 4449.85</i>	-S. breakwater.	37° 49.8' N 128° 52.9' E	Fl.G. period 5s	39 12	5	White round concrete tower; 33.	
16451.6 <i>M 4449.7</i>	Anmok Hang, N. breakwater.	37° 46.3' N 128° 57.4' E	Fl.R. period 5s	59 18	5	Red round concrete tower; 33.	
16451.65 <i>M 4449.75</i>	-S. breakwater, head.	37° 46.3' N 128° 57.3' E	Fl.G. period 5s	59 18	6	White round concrete tower; 33.	
16451.7 <i>M 4449.6</i>	Anin-dan.	37° 44.2' N 128° 59.5' E	Fl.R. period 4s	33 10	5	Red square steel tower; 21.	
16451.8 <i>M 4449.65</i>	-Groin.	37° 44.1' N 128° 59.4' E	Fl.G. period 4s	33 10	5	White square steel tower; 21.	
16452 <i>M 4449.5</i>	Chongdongjin Dan.	37° 40.4' N 129° 03.3' E	Fl.W. period 8s	292 89	12	White round tower; 33.	Visible 142° -333° .
16453 <i>M 4449.4</i>	-Simgok Hang, breakwater.	37° 39.9' N 129° 03.3' E	Fl.R. period 4s	36 11	5	Red square metal tower; 20.	
16454 <i>M 4449.1</i>	Okgye Hang, N. breakwater.	37° 37.4' N 129° 03.9' E	Fl.R. period 4s	49 15	7	Red round concrete tower; 33.	Horn: 1 bl. ev. 55s (bl. 5s, si. 50s).
16454.1 <i>M 4449.2</i>	-S. breakwater.	37° 37.4' N 129° 03.6' E	Fl.G. period 4s	49 15	7	White round concrete tower; 33.	
16454.2	-Sea berth.	37° 37.2' N 129° 03.7' E	Fl.(4)Y. period 8s	21 6	6	Yellow round fiberglass tower; 13.	
16456 <i>M 4449</i>	-Kanshin Tan.	37° 34.3' N 129° 07.1' E	Fl.W. period 5s	59 18	8	White round concrete structure; 34.	Visible 154° -344° .
16463 <i>M 4447.5</i>	Eodal, N. breakwater.	37° 33.6' N 129° 07.4' E	Fl.R. period 6s	30 9	7	Red round concrete tower; 20.	
16463.5 <i>M 4447.51</i>	-S. breakwater.	37° 33.6' N 129° 07.3' E	Fl.G. period 6s	30 9	7	White round concrete tower; 20.	
16464 <i>M 4447</i>	Mukho Hang.	37° 33.3' N 129° 07.1' E	Fl.W. period 10s	289 88	26	White round concrete tower; 69.	Visible 174° -328° . Horn: 1 bl. ev. 55s.
16466 <i>M 4448</i>	-W. breakwater, head.	37° 32.6' N 129° 06.9' E	Fl.G. period 6s	49 15	5	White round concrete tower; 36.	
16467 <i>M 4448.4</i>	-E. breakwater, head.	37° 32.4' N 129° 07.2' E	Fl.R. period 4s	59 18	7	Red square concrete tower; 36.	
16469 <i>M 4448.5</i>	-S. groin.	37° 32.4' N 129° 07.0' E	Fl.G. period 4s	46 14	9	White round concrete tower; 33.	
16478 <i>M 4446.8</i>	Tonghae Hang, wharf.	37° 29.8' N 129° 08.3' E	Fl.(2)G. period 5s	28 9	5	White pillar; 19.	
16480 <i>M 4446.6</i>	Bugpyeong Hang, N. breakwater, head.	37° 29.8' N 129° 09.2' E	Fl.(2)R. period 5s	46 14	9	Red round concrete tower; 28.	
	RACON		B(- • • •)		10		
16484 <i>M 4446.5</i>	-S. breakwater, head.	37° 29.7' N 129° 08.9' E	Fl.G. period 4s	52 16	8	White round tower; 36.	
16485	-S. breakwater.	37° 29.8' N 129° 08.7' E	F.W.	49 15			Visible 023° -045° .
16486 <i>M 4446.7</i>	Yugong Seaberth.	37° 29.8' N 129° 08.6' E	Fl.(4)Y. period 8s	23 7	7	Yellow fiberglass pillar; 13.	Private light.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
16487 <i>M 4437.2</i>	Samchok Hang.	37° 26.1' N 129° 11.5' E	Dir.F.W.R.G.	105 32	W. 21 R. 17 G. 17	White steel tower, 102.	R. 317° 36' -319° 12' , W.- 320° 48' , G.-322° 24' .
16488 <i>M 4436</i>	-S. breakwater, head.	37° 25.8' N 129° 11.8' E	Fl.G. period 4s	46 14	8	White round concrete structure; 33.	
16492 <i>M 4437</i>	-N. breakwater, head.	37° 25.9' N 129° 11.8' E	Fl.R. period 4s	52 16	8	Red round concrete tower; 33.	
16496 <i>M 4435</i>	Pi Mal.	37° 22.7' N 129° 15.5' E	Fl.W. period 5s	236 72	12	White round concrete structure; 28.	
16500 <i>M 4434</i>	Jangho.	37° 17.3' N 129° 19.1' E	Fl.W. period 5s	184 56	12	White round tower; 23.	
16502 <i>M 4434.3</i>	-Groin.	37° 17.1' N 129° 19.0' E	Fl.R. period 5s	36 11	5	Red round concrete tower; 32.	
16504 <i>M 4434.2</i>	-Breakwater, head.	37° 17.1' N 129° 19.0' E	Fl.G. period 5s	56 17	5	White round steel tower; 33.	
16505 <i>M 4434.75</i>	Toksan Hang, N. breakwater.	37° 22.4' N 129° 15.4' E	Fl.R. period 5s	52 16	6	Red round concrete tower; 33.	
16506 <i>M 4434.7</i>	-S. breakwater.	37° 22.3' N 129° 15.4' E	Fl.G. period 5s	46 14	5	White round concrete tower; 36.	
16508 <i>M 4433.7</i>	Imunae Hang.	37° 13.9' N 129° 21.5' E	Fl.W. period 8s	197 60	14	White round concrete tower; 33.	
16516 <i>M 4433.8</i>	-N. breakwater, head.	37° 13.5' N 129° 20.6' E	Fl.G. period 6s	43 13	4	White round concrete tower; 33.	
16518 <i>M 4433.9</i>	--Breakwater, head.	37° 13.5' N 129° 20.7' E	Fl.R. period 4s	52 16	6	Red round concrete tower; 33.	
	--RACON		G(- - •)		10		
	ULLUNG DO:						
16520 <i>M 4446.2</i>	-Hyongnangap.	37° 29.0' N 130° 55.0' E	Fl.W. period 14s	354 108	18	White octagonal tower; 30.	Visible 183° -040° . Horn: 1 bl. ev. 60s.
16524	--Jeodong Hang, N. breakwater, head.	37° 29.9' N 130° 54.8' E	Fl.R. period 5s	52 16	6	Red round concrete tower; 28.	
16528	---S. breakwater, head.	37° 29.8' N 130° 54.8' E	Fl.G. period 5s	52 16	5	White round concrete tower; 28.	
16536 <i>M 4443</i>	-Ch'onbu Hang, breakwater, head.	37° 32.6' N 130° 52.4' E	Fl.G. period 4s	29 9	5	White round concrete column; 25.	
16541 <i>M 4446.4</i>	-Ssangjongcho.	37° 33.4' N 130° 56.4' E	Fl.(2)W. period 5s	56 17	8	ISOLATED DANGER BRB, topmark; 75.	
	-RACON		C(- • - •)				
16542	-N. breakwater.	37° 31.8' N 130° 49.7' E	Fl.R. period 5s	56 17	5	STARBOARD (B) R, tower; 33.	
16544 <i>M 4445</i>	-Kanryong Mal.	37° 27.3' N 130° 52.5' E	Fl.W. period 5s	69 21	19	White octagonal concrete tower; 49.	Visible 270° -110° .
16548 <i>M 4440</i>	Dokto.	37° 14.4' N 131° 52.2' E	Fl.W. period 10s	341 104	25	White round concrete tower; 49.	Obscured 117° -140° . Radar reflector.
	RACON		K(- • -)		10		
16551	Hosan Hang.	37° 10.5' N 129° 21.1' E	Fl.R. period 5s	46 14	5	Red round steel tower; 33.	
16551.1	-Hosan groin.	37° 10.5' N 129° 21.0' E	Fl.G. period 5s	46 14	5	White round steel tower; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
16552 <i>M 4432</i>	Chukpyon Dong.	37° 03.5' N 129° 25.8' E	Fl.W. period 20s fl. 1s, ec. 19s	161 49	20	White octagonal concrete structure; 52.	Visible 162° -352° . Horn: 1 bl. ev. 50s.
16556 <i>M 4432.6</i>	-E. breakwater, head.	37° 03.0' N 129° 25.4' E	Fl.R. period 4s	33 10	5	Red round concrete tower; 27.	
16560 <i>M 4433</i>	-W. breakwater.	37° 03.1' N 129° 25.3' E	Fl.G. period 4s	36 11	5	White quadrangular iron framework; 27.	
16564 <i>M 4431.5</i>	Jinmimal.	36° 53.6' N 129° 25.1' E	Fl.W. period 6s	190 58	19	White round concrete tower; 39.	Visible 184° -340° .
16565 <i>M 4431.45</i>	Osan Hang, N. breakwater, head.	36° 53.4' N 129° 25.3' E	Fl.R. period 4s	49 15	6	Red round metal tower; 26.	
16566 <i>M 4431.2</i>	Sadong, N. breakwater.	36° 49.3' N 129° 27.3' E	Fl.R. period 5s	56 17	5	Red round concrete tower; 33.	
16566.2 <i>M 4431.4</i>	-S. breakwater.	36° 49.3' N 129° 27.2' E	Fl.G. period 5s	49 15	5	White round concrete tower; 34.	
16568 <i>M 4431</i>	Hwamo Mal.	36° 45.9' N 129° 28.7' E	Fl.W. period 7s	157 48	12	White round concrete tower; 33.	
16569 <i>M 4430.5</i>	Gusan Hang, N. breakwater.	36° 45.4' N 129° 28.5' E	Fl.R. period 5s	49 15	5	Red tower; 26.	
16569.1 <i>M 4430.8</i>	-S. breakwater.	36° 45.4' N 129° 28.4' E	Fl.G. period 5s	52 16	6	White round concrete tower; 33.	
16569.5 <i>M 4430.85</i>	-SW.	36° 45.3' N 129° 28.3' E	Q.(6)+L.Fl.W. period 15s	30 9	8	S. CARDINAL YB, tower, topmark; 20.	
16569.7 <i>M 4430.3</i>	Jiksan Hang, S. breakwater.	36° 43.4' N 129° 28.4' E	Fl.G. period 4s	46 14	5	White round metal tower; 33.	
16569.9 <i>M 4430.31</i>	-E. breakwater.	36° 43.4' N 129° 28.5' E	Fl.R. period 4s	46 14	5	Red round metal tower; 33.	
16571 <i>M 4430.2</i>	Wangdolcho.	36° 43.1' N 129° 43.9' E	Fl.(2)W. period 5s	52 16	10	ISOLATED DANGER BRB, tower, topmark; 98.	
	RACON		Y(- • - -)		10		
	HUP'O HANG:						
16572 <i>M 4426</i>	-Hup'o.	36° 41.0' N 129° 28.0' E	Fl.W. period 10s	210 64	19	White octagonal concrete tower; 34.	Visible 210° -014° . Siren: 1 bl. ev. 60s.
16574 <i>M 4427</i>	-Hup'o Chedong.	36° 41.0' N 129° 28.4' E	Fl.R. period 5s	49 15	5	Red round concrete tower; 33.	
16576 <i>M 4430.04</i>	-E. breakwater, head.	36° 40.3' N 129° 27.3' E	Fl.R. period 4s	52 16	8	Red round steel tower; 33.	
16580 <i>M 4430</i>	-W. breakwater, head.	36° 40.3' N 129° 27.5' E	Fl.G. period 4s	43 13	5	White round concrete tower; 33.	
16581 <i>M 4428.1</i>	Baekseok Hang, S. breakwater.	36° 37.4' N 129° 24.8' E	Fl.G. period 5s	43 13	6	White round concrete tower; 33.	
16584 <i>M 4424</i>	Ch'uksan Hang.	36° 30.5' N 129° 27.1' E	Fl.W. period 5s	335 102	19	White octagonal concrete tower; 75.	
16588 <i>M 4420</i>	-S. breakwater, head.	36° 30.6' N 129° 27.0' E	Fl.G. period 4s	33 10	5	White round concrete tower; 26.	
16592 <i>M 4421</i>	-N. breakwater, head.	36° 30.6' N 129° 27.1' E	Fl.R. period 5s	49 15	6	Red octagonal concrete structure; 26.	
16594 <i>M 4420.3</i>	-E. breakwater, head.	36° 30.6' N 129° 27.1' E	Fl.G. period 5s	49 15	6	White octagonal concrete tower; 26.	
16595 <i>M 4419</i>	Gyeonjeon Hang, E. breakwater.	36° 28.9' N 129° 26.1' E	Fl.R. period 4s	49 15	6	Red round concrete tower; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
16596 <i>M 4418</i>	Changp'o Mal.	36° 25.5' N 129° 26.1' E	Fl.W. period 6s	200 61	23	White round concrete tower; 39.	Visible 197° -010° .
16596.5 <i>M 4417</i>	Changp'o Mal, breakwater.	36° 24.3' N 129° 25.6' E	Fl.R. period 5s	43 13	6	Red round metal tower; 23.	
16597 <i>M 4424.5</i>	Taejin Hang, N. breakwater.	36° 33.5' N 129° 26.2' E	Fl.R. period 5s	49 15	6	Red round concrete tower; 28.	
16598 <i>M 4424.6</i>	-S. breakwater.	36° 33.5' N 129° 26.1' E	Fl.G. period 5s	43 13	6	White round concrete tower; 33.	
GANGGU HANG:							
16600 <i>M 4415</i>	-E. breakwater.	36° 21.2' N 129° 23.7' E	Fl.R. period 5s	49 15	11	Red round metal tower; 36.	
16604 <i>M 4414</i>	-W. breakwater.	36° 21.3' N 129° 23.4' E	Fl.G. period 5s	30 9	11	White square iron framework structure; 32.	
KUKYE HANG:							
16609 <i>M 4413.7</i>	-Kukye Hang, breakwater.	36° 18.9' N 129° 23.0' E	Fl.R. period 5s	56 17	5	Red round concrete tower; 33.	
16610 <i>M 4413.75</i>	-E. breakwater.	36° 19.1' N 129° 22.9' E	Fl.R. period 5s	56 17	8	Red round concrete tower; 33.	
16611 <i>M 4413.8</i>	-S. breakwater.	36° 18.9' N 129° 22.9' E	Fl.G. period 5s	42 13	5	White round concrete tower; 33.	
16611.5 <i>M 4413.65</i>	Jigyeong Hang, breakwater.	36° 15.6' N 129° 22.6' E	Fl.R. period 5s	49 15	5	Red round concrete tower; 33.	
16611.6 <i>M 4413.638</i>	Hwanjin Hang, N. breakwater.	36° 14.6' N 129° 23.0' E	Fl.G. period 4s	46 14	6	White round concrete tower; 33.	
16611.65 <i>M 4413.636</i>	-S. breakwater.	36° 14.4' N 129° 23.2' E	Fl.G. period 5s	39 12	6	White round concrete tower; 36.	
16611.8 <i>M 4413.63</i>	Josa Hang, breakwater.	36° 13.3' N 129° 23.3' E	Fl.R. period 4s	46 14	5	Red round concrete tower; 33.	
16611.9 <i>M 4413.625</i>	Igari Hang, N. breakwater.	36° 11.1' N 129° 23.2' E	Fl.R. period 5s	43 13	5	Red round concrete tower; 33.	
POHANG HANG:							
16612 <i>M 4413.6</i>	-Wol'po Man.	36° 10.8' N 129° 23.5' E	Fl.W. period 7s	79 24	19	White round concrete tower; 33.	
16612.2 <i>M 4413.58</i>	-Cheongjin Hang, N. breakwater.	36° 10.4' N 129° 23.8' E	Fl.R. period 4s	62 19	5	Red round concrete tower; 33.	
16612.5 <i>M 4413.55</i>	-Chilpo Hang, breakwater.	36° 08.6' N 129° 23.8' E	Fl.R. period 5s	46 14	5	Red round concrete tower; 33.	
16613 <i>M 4410.8</i>	-Singhang, breakwater, NW. head.	36° 07.1' N 129° 26.4' E	Fl.(4)Y. period 8s	66 20	9	Yellow round concrete tower; 72.	
16613.5 <i>M 4410.9</i>	--SE. head.	36° 05.9' N 129° 27.8' E	Fl.(2)R. period 6s	46 14	6	Red round tower; 30.	
16614 <i>M 4410.6</i>	-Yongil Man , N. breakwater, head.	36° 06.7' N 129° 26.4' E	Fl.R. period 4s	49 15	15	Red octagonal concrete tower; 46.	
16614.5 <i>M 4410.52</i>	--Inner breakwater, N. head.	36° 06.7' N 129° 25.9' E	Fl.R. period 5s	23 7	6	Red round metal tower; 16.	
16615 <i>M 4410.54</i>	---S. head.	36° 06.7' N 129° 25.9' E	Fl.G. period 5s	23 7	5	White round metal tower; 16.	
16615.5 <i>M 4410.65</i>	--S. breakwater, head.	36° 06.6' N 129° 26.4' E	Fl.G. period 4s	33 10	6	White round metal tower; 26.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
16616 M 4410.5	-Yonam-gap.	36° 04.6' N 129° 25.2' E	Fl.W. period 5s	108 33	20	White octagonal concrete tower; 46.	
16620 M 4413.2	-Old Harbor, N. breakwater, head.	36° 02.8' N 129° 23.1' E	Fl.R. period 5s	49 15	15	Red round concrete tower; 36.	
16620.5 M 4413	--S. breakwater, head.	36° 02.8' N 129° 22.9' E	Fl.G. period 5s	43 13	10	White round concrete structure; 33.	
16621 M 4413.4	-Dongbin Bridge.	36° 02.4' N 129° 22.3' E	Iso.W. period 4s	30 9	6	White round daymark, red stripes.	Iso.R. 4s 8m 6M and Iso.G. 4s 8m 6M mark width of navigable span. Iso.Y. 4s 3m 6M, Iso.Y. 4s 6m 6M and Iso.Y. 4s 4m 6M mark piers.
16624 M 4412	-Pohang Shin Hang.	36° 01.4' N 129° 24.0' E	Dir.F.W.R.G.	236 72	W. 18 R. 15 G. 14	White square framework tower; 226.	R. 258° 42' -262° , W.- 265° 18' , G.-268° 36' .
16626 M 4411.4	--Range, front.	36° 01.2' N 129° 25.4' E	F.G.	115 35	14	Framework tower; 98.	Visible 237° 30' -245° 30' .
16627 M 4411.41	---Rear, 1,290 meters 241° 30' from front.	36° 00.9' N 129° 24.7' E	F.G.	240 73	14	Framework tower; 230.	Visible 237° 30' -245° 30' .
16628 M 4412.6	--Inner Harbor, inner detached breakwater, W. head.	36° 01.2' N 129° 24.3' E	Fl.G. period 5s	39 12	10	Red octagonal concrete tower; 33.	
16632 M 4412.5	---E. head.	36° 01.1' N 129° 24.6' E	Fl.R. period 5s	39 12	9	Red octagonal concrete tower; 33.	
16633 M 4412.72	---Outer detached breakwater, W. head.	36° 01.3' N 129° 24.9' E	Fl.G. period 4s	33 10	5	White round fiberglass structure; 23.	
16634 M 4412.7	---E. head.	36° 01.1' N 129° 25.1' E	Fl.R. period 4s	33 10	5	Red round fiberglass structure; 23.	
16636 M 4411	--Entrance, N. breakwater, head.	36° 01.6' N 129° 25.9' E	Fl.R. period 6s	66 20	17	Red octagonal column; 49.	
16640 M 4411.2	---S. breakwater, head.	36° 01.3' N 129° 25.4' E	Fl.G. period 6s	56 17	15	White round concrete structure; 43.	
16642 M 4412.8	-Seawater Sampling Tower.	36° 00.3' N 129° 25.3' E	Fl.Y. period 5s	20 6	7	SPECIAL Y, topmark; 36.	
16642.5 M 4408.5	-Palsan-dong, S. breakwater, head.	36° 01.9' N 129° 30.2' E	Fl.R. period 4s	39 12	6	Red round concrete tower; 33.	
16642.6 M 4408.55	--N. breakwater, head.	36° 01.9' N 129° 30.1' E	Fl.G. period 4s	46 14	5	White round concrete tower; 33.	
16643 M 4408	-Taedongbae-dong, breakwater.	36° 03.5' N 129° 31.9' E	Fl.G. period 5s	31 10	5	White round metal tower; 23.	
16644 M 4409	-Gyoseokcho.	36° 05.5' N 129° 33.5' E	Fl.G. period 5s	49 15	5	PORT (B) G, tower; topmark; 66.	
	-RACON		Z(- - • •)		10		
16648 M 4410	Daebo Hang, N. breakwater, head.	36° 04.8' N 129° 33.8' E	Fl.R. period 4s	49 15	6	Red round concrete tower; 26.	
16648.5 M 4410.2	-S. breakwater, head.	36° 04.8' N 129° 33.8' E	Fl.G. period 4s	42 13	6	White round concrete tower; 26.	
16648.6 M 4410.1	-Detached breakwater, N. head.	36° 04.9' N 129° 33.9' E	Fl.(2)G. period 6s	39 12	5	White round concrete tower; 23.	
16652 M 4406	Homigot.	36° 04.6' N 129° 34.0' E	Fl.W. period 12s	102 31	27	White octagonal brick tower; 85.	Obscured 347° -106° . Horn: 1 bl. ev. 60s (bl. 4s, si. 56s).
16654 M 4404.6	Seokbyeong, breakwater.	36° 00.7' N 129° 34.7' E	Fl.R. period 5s	43 13	5	Red round concrete tower; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
GURYONGPO HANG:							
16656 <i>M 4404</i>	-Saramal.	35° 59.5' N 129° 34.0' E	Fl.W. period 9s	59 18	19	White round concrete tower; 33.	Visible 208° -011°.
16660 <i>M 4405</i>	-Breakwater, head.	35° 59.0' N 129° 33.6' E	Fl.R. period 4s	46 14	6	Red round concrete tower; 33.	
16661 <i>M 4405.5</i>	-S. breakwater.	35° 59.1' N 129° 33.6' E	Fl.G. period 5s	46 14	5	White round steel tower; 20.	
16661.3 <i>M 4403.9</i>	Janggireo Hang.	35° 57.1' N 129° 32.7' E	Fl.R. period 6s	46 14	9	Red pillar; 33.	
16661.4 <i>M 4403.88</i>	Gupyeongni Hang.	35° 56.6' N 129° 32.2' E	Fl.G. period 5s	39 12	6	White round concrete tower; 33.	
16661.5 <i>M 4403.8</i>	Mopo Hang, breakwater.	35° 55.9' N 129° 31.5' E	Fl.R. period 5s	49 15	5	Red round concrete tower; 33.	
16661.7 <i>M 4403.5</i>	Koejon-mal, Yeongam Hang, breakwater.	35° 54.3' N 129° 31.8' E	Fl.R. period 4s	33 10	6	Red round steel tower; 20.	
16661.9 <i>M 4403.3</i>	--Inner breakwater.	35° 52.7' N 129° 31.3' E	Fl.G. period 4s	33 10	6	White round metal tower; 20.	
16662 <i>M 4403</i>	Yangp'o Hang.	35° 52.4' N 129° 31.9' E	Fl.R. period 4s	46 14	5	Red round concrete tower; 33.	
16664 <i>M 4402</i>	Yangp'o.	35° 52.2' N 129° 32.1' E	Fl.W. period 7s	79 24	19	White round concrete tower; 31.	Visible 110° -021°.
16665 <i>M 4401</i>	Cheoksa Hang, breakwater.	35° 48.8' N 129° 30.8' E	Fl.R. period 5s	26 8	5	Red metal tower; 20.	
KAMPO HANG:							
16668 <i>M 4400</i>	-Songdae Khut.	35° 48.4' N 129° 30.7' E	Al.Fl.W.R. period 34s	112 34	16	White square concrete structure; 69.	Visible 197° -014°. F.W. 30m visible 301° -309° , illuminates reef 350 meters SE. Siren: 1 bl. ev. 50s.
16669 <i>M 4399.5</i>	-Gwanam.	35° 48.3' N 129° 30.9' E	Q.(6)+L.Fl.W. period 15s	59 18	8	S. CARDINAL YB, beacon, topmark; 56.	
16672 <i>M 4398</i>	-S. breakwater, head.	35° 48.3' N 129° 30.4' E	Fl.G. period 4s	43 13	5	White round concrete tower; 36.	
16672.1 <i>M 4398.2</i>	-N. breakwater, head.	35° 48.3' N 129° 30.5' E	Fl.R. period 4s	49 15	6	Red round concrete tower; 26.	
16672.2 <i>M 4399.2</i>	N. Kamp'o Hang.	35° 48.2' N 129° 30.5' E	Fl.(2)G. period 6s	43 13	5	White round concrete tower; 23.	
16672.3 <i>M 4397.85</i>	Jeonchon Hang.	35° 47.3' N 129° 29.7' E	Fl.R. period 5s	49 15	6	Red round concrete tower; 33.	
16672.5 <i>M 4397.86</i>	-S. breakwater.	35° 47.4' N 129° 29.7' E	Fl.G. period 5s	46 14	6	White round concrete tower; 33.	
16672.6 <i>M 4397.77</i>	Jukjeon, breakwater.	35° 42.0' N 129° 28.5' E	Fl.(2)Y. period 6s	49 15	7	Yellow round beacon; 30.	
16672.7	Upchon Hang, N. breakwater.	35° 41.3' N 129° 28.8' E	Fl.R. period 5s	49 15	5	STARBOARD (B) R, tower; 33.	
16673 <i>M 4397.4</i>	Chongja Hang, N. breakwater.	35° 36.8' N 129° 27.4' E	Fl.(2)R. period 6s	52 16	5	Red round concrete tower; 33.	
16673.1 <i>M 4397.5</i>	-S. breakwater.	35° 36.8' N 129° 27.3' E	Fl.G. period 6s	52 16	5	White round concrete tower; 36.	
16673.5 <i>M 4397.3</i>	Wisuga Hang.	35° 35.8' N 129° 27.8' E	Fl.(2)G. period 6s	36 11	8	White round steel pipe; 26.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
16673.6 <i>M 4397.1</i>	Uga Hang.	35° 35.6' N 129° 27.8' E	Fl.R. period 5s	36 11	5	Red round steel pipe; 26.	
16674 <i>M 4397</i>	Idokso.	35° 33.8' N 129° 28.6' E	Fl.(2)W. period 5s	46 14	7	ISOLATED DANGER BRB, topmark; 59.	AIS (MMSI No 994401551).
16675 <i>M 4396.8</i>	Jujeon Hang, E. breakwater.	35° 33.7' N 129° 27.5' E	Fl.R. period 5s	43 13	5	Red concrete tower; 25.	
16675.5 <i>M 4396.7</i>	-W. breakwater.	35° 33.7' N 129° 27.5' E	Fl.G. period 5s	43 13	6	White round steel tower; 30.	
16680 <i>M 4394</i>	Ulgi.	35° 29.6' N 129° 26.6' E	Fl.W. period 10s	174 53	26	White octagonal concrete structure; 79.	Visible 184° -014° . AIS (MMSI No 994401546). Horn.
MIPO HANG:							
16680.9 <i>M 4396.5</i>	-N. breakwater.	35° 31.6' N 129° 27.2' E	Fl.R. period 5s	56 17	9	Red round concrete tower; 33.	
16681.2 <i>M 4396.6</i>	-S. breakwater.	35° 31.5' N 129° 27.0' E	Fl.G. period 5s	59 18	8	White round concrete tower; 49.	
16682 <i>M 4395</i>	-Jeonhaman.	35° 30.5' N 129° 26.9' E	Fl.(2)R. period 6s	52 16	7	Red round tower; 30.	
16683 <i>M 4394.5</i>	-Ilsan Hang.	35° 29.9' N 129° 26.4' E	Q.(6)+L.Fl.W. period 15s	56 17	8	S. CARDINAL YB, tower, topmark; 62.	
BANGEOJIN HANG:							
16684 <i>M 4390</i>	-Breakwater, head.	35° 28.8' N 129° 25.8' E	Fl.G. period 5s	49 15	9	White square metal framework tower; 36.	
16686 <i>M 4389</i>	-Seul Do, breakwater, head.	35° 28.7' N 129° 25.7' E	Fl.R. period 5s	52 16	8	Red round concrete tower; 33.	
16687 <i>M 4388</i>	--Elbow.	35° 28.7' N 129° 25.9' E	Fl.W. period 6s	75 23	19	White octagonal concrete tower; 53.	Visible 255° -075° .
ULSAN MAN:							
16688 <i>M 4385</i>	-Hwaam Chu.	35° 28.4' N 129° 24.4' E	Al.Fl.W.R. period 20s	161 49	W. 26 R. 21	White round concrete tower; 144.	Visible 250° -162° . AIS (MMSI No 994401545). Horn: 1 bl. ev. 60s (bl. 5s, si. 55s).
16690 <i>M 4381.3</i>	-Detached E. breakwater, E. head.	35° 28.1' N 129° 24.4' E	Fl.Y. period 4s	56 17	9	Yellow round concrete tower; 32.	
16690.1 <i>M 4381.301</i>	--A.	35° 28.0' N 129° 24.0' E	Fl.Y. period 4s	39 12	6	Yellow metal post; 20.	
16690.2 <i>M 4381.302</i>	--B.	35° 28.0' N 129° 24.1' E	Fl.Y. period 4s	39 12	6	Yellow metal post; 20.	
16690.3 <i>M 4381.303</i>	--C.	35° 28.0' N 129° 24.1' E	Fl.Y. period 4s	39 12	6	Yellow metal post; 20.	
16690.4 <i>M 4381.304</i>	--D.	35° 28.0' N 129° 24.2' E	Fl.Y. period 4s	39 12	6	Yellow metal post; 20.	
16690.5 <i>M 4381.305</i>	--E.	35° 28.1' N 129° 24.2' E	Fl.Y. period 4s	39 12	6	Yellow metal post; 20.	
16690.6 <i>M 4381.306</i>	--F.	35° 28.1' N 129° 24.3' E	Fl.Y. period 4s	39 12	6	Yellow metal post; 20.	
16690.7 <i>M 4381.307</i>	--G.	35° 28.1' N 129° 24.3' E	Fl.Y. period 4s	39 12	6	Yellow metal post; 20.	
16690.8 <i>M 4381.308</i>	--H.	35° 28.1' N 129° 24.3' E	Fl.Y. period 4s	39 12	6	Yellow metal post; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
16691 <i>M 4381.36</i>	--W. head.	35° 28.0' N 129° 24.0' E	Fl.R. period 4s	85 26	19	Red round concrete tower; 66.	AIS (MMSI No 994401550).
	--RACON		O(---)		7		
16691.5 <i>M 4381.38</i>	-Hwaam Budu.	35° 28.3' N 129° 24.3' E	Fl.(2)Y. period 5s	56 17	12	Yellow round metal tower; 43.	
16692 <i>M 4381.4</i>	-Yugong Seaberth, A.	35° 28.6' N 129° 23.4' E	Fl.(2)Y. period 6s	36 11	7	Yellow round fiberglass tower; 16.	
16696 <i>M 4381.5</i>	--B.	35° 29.2' N 129° 23.5' E	Fl.Y. period 4s	30 9	11	SPECIAL Y, beacon, topmark; 16.	
16696.1 <i>M 4381.6</i>	--Inner pier, head.	35° 29.0' N 129° 23.2' E	Fl.(3)Y. period 7s	36 11	7	Yellow round tower; 26.	
16698 <i>M 4382.5</i>	-Jangsaengpo Hang, S. wharf.	35° 29.9' N 129° 22.1' E	Fl.Y. period 4s	26 8	8	Yellow round fiberglass tower; 23.	
16699 <i>M 4382.7</i>	--Pier, No. 1.	35° 30.1' N 129° 21.9' E	Fl.(2)Y. period 6s	24 7	10	Yellow round fiberglass tower; 16.	
16699.5 <i>M 4381.8</i>	-Maeam Wharf.	35° 30.1' N 129° 23.4' E	Fl.G. period 4s	56 17	7	White round concrete tower; 43.	
16700 <i>M 4382</i>	-Ulsan Hang, breakwater, head.	35° 30.3' N 129° 23.4' E	Fl.G. period 6s	62 19	13	White concrete tower; 52.	AIS (MMSI No 994401547).
16702 <i>M 4383</i>	-Exports and Imports Wharf, A.	35° 31.1' N 129° 23.6' E	Fl.(4)Y. period 8s	20 6	7	SPECIAL Y, beacon, topmark; 13.	Private light.
16702.5 <i>M 4383.2</i>	--B.	35° 31.5' N 129° 23.4' E	Fl.Y. period 4s	20 6	7	SPECIAL Y, beacon, topmark; 13.	Private light.
16704 <i>M 4379</i>	-Onsan Hang, N. breakwater, head.	35° 27.1' N 129° 22.4' E	Fl.R. period 6s	46 14	13	Red round concrete tower; 33.	
	--RACON		B(-...)		10		
16705 <i>M 4381.19</i>	--Detached breakwater, S. head.	35° 27.0' N 129° 22.7' E	Fl.(2)Y. period 4s	102 31	8	Red round concrete tower.	
16705.1 <i>M 4381.2</i>	---Elbow.	35° 27.3' N 129° 22.8' E	Fl.R. period 6s	36 11	7	Yellow round steel pipe.	
16706 <i>M 4381.12</i>	--S. breakwater, E. head.	35° 26.7' N 129° 22.7' E	Fl.Y. period 4s	56 17	12	Yellow round concrete tower; 43.	
16708 <i>M 4379.2</i>	---Elbow.	35° 26.9' N 129° 22.2' E	Fl.G. period 6s	72 22	13	White round structure; 56.	
16709 <i>M 4379.7</i>	--Jeongil Wharf.	35° 27.0' N 129° 22.0' E	Fl.Y. period 4s		7	Yellow round fiberglass structure; 14.	
16710 <i>M 4379.4</i>	--Ssanyang Oil Refining Wharf.	35° 27.1' N 129° 21.6' E	Fl.(4)Y. period 8s	30 9	7	Yellow square metal tower; 16.	
16710.5 <i>M 4379.45</i>	---Pier, No. 1.	35° 27.1' N 129° 21.4' E	Fl.(3)Y. period 7s	30 9	7	Square yellow metal tower; 20.	
16710.6 <i>M 4379.48</i>	----No. 3.	35° 27.1' N 129° 21.2' E	Fl.Y. period 4s	46 14	10	Yellow round metal tower; 33.	
16711 <i>M 4379.5</i>	--Yuhwa Wharf, No. 1, A.	35° 27.2' N 129° 21.2' E	Fl.(2)Y. period 6s	32 10	7	SPECIAL Y, tower, topmark; 15.	
16711.3 <i>M 4379.6</i>	--OTK Wharf, No. 1, B.	35° 27.4' N 129° 21.1' E	Fl.(2)Y. period 6s	30 9	7	Yellow round fiberglass column; 13.	Horn: 1 bl. ev. 20s.
16711.35 <i>M 4379.65</i>	---No. 2.	35° 27.5' N 129° 21.0' E	Fl.(4)Y. period 8s	26 8	7	Yellow round fiberglass column; 13.	
16711.6 <i>M 4381.14</i>	--W. breakwater, N. head.	35° 26.7' N 129° 22.9' E	Fl.G. period 4s	98 30	19	White round concrete tower.	AIS (MMSI No 994401549).
16711.65 <i>M 4381.16</i>	-S. head.	35° 25.6' N 129° 22.6' E	Fl.(2)R. period 6s	102 31	10	Red round concrete tower.	AIS (MMSI No 994401548).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
16711.8 <i>M 4381.18</i>	-S. breakwater, E. head.	35° 25.9' N 129° 22.4' E	Fl.(2)G. period 6s	102 31	10	White round concrete tower.	
16711.85 <i>M 4381</i>	Donghae-1.	35° 25.8' N 130° 00.0' E	Mo.(U)W. period 15s	154 47	14	Platform; 581.	Horn: Mo.(U) 30s (bl. 1s, si. 29s).
	RACON		D(- • •)		20		
16711.89 <i>M 4378.1</i>	Gangyang Hang Bridge.	35° 23.4' N 129° 20.8' E	Fl.(2)W. period 6s		6	Red circular daymark, white stripes.	Fl.(2)G. 6s 7M and Fl.(2)R. 6s 7M mark width of navigable span. Fl.(2)Y. 6s 7M mark piers and bridge span.
16711.9 <i>M 4378.2</i>	Gangyang.	35° 23.4' N 129° 20.8' E	Fl.G. period 5s	33 10	7	Green concrete tower; 36.	
16711.94 <i>M 4378.05</i>	Songjeong Hang.	35° 22.1' N 129° 21.4' E	Fl.R. period 6s	39 12	5	Red round concrete tower; 30.	
16711.95 <i>M 4378.03</i>	Daesong Hang.	35° 21.8' N 129° 21.7' E	Fl.(2)R. period 6s	39 12	5	Red round concrete tower; 30.	
16712 <i>M 4378</i>	Kanjol Gap.	35° 21.6' N 129° 21.6' E	Fl.W. period 15s	115 35	26	White octagonal concrete tower; 55.	AIS (MMSI 994401544). Visible 165° -045°. Horn: 1 bl. ev. 55s (bl. 5s, si. 50s).
16713 <i>M 4377.9</i>	Nasa.	35° 21.1' N 129° 20.7' E	Fl.W. period 6s	59 18	19	White round concrete tower; 39.	
16714 <i>M 4377.6</i>	Wolnae Hang, S. breakwater.	35° 19.5' N 129° 16.8' E	Fl.G. period 5s	39 12	5	White round concrete tower; 32.	
16716.1 <i>M 4377.53</i>	Sinpyeong Hang, S. breakwater, head.	35° 17.8' N 129° 15.7' E	Fl.R. period 5s	49 15	8	Red round concrete tower; 36.	
16716.2 <i>M 4377.7</i>	Dongbaegeo Hang, N. breakwater, head.	35° 17.3' N 129° 15.5' E	Fl.R. period 5s	39 12	8	Red round concrete tower; 33.	
16718	Hakri Hang, breakwater.	35° 15.7' N 129° 14.8' E	Fl.(2)G. period 5s	49 15	5	White round concrete tower; 37.	
16718.5 <i>M 4376.6</i>	Duho Hang.	35° 14.5' N 129° 15.1' E	Fl.G. period 4s	62 19	8	Green round concrete tower, green quadrangular daymark; 39.	
16718.6 <i>M 4376.4</i>	Woljeon Hang, breakwater.	35° 14.2' N 129° 14.7' E	Fl.R. period 4s	43 13	8	Red quadrangular concrete tower; 36.	
16719 <i>M 4376.3</i>	Gwanggyemal.	35° 13.8' N 129° 14.7' E	Fl.W. period 6s	75 23	8	White octagonal concrete tower; 43.	
16720 <i>M 4376</i>	Taebyon Hang, inner breakwater, head.	35° 13.2' N 129° 13.8' E	Fl.R. period 5s	59 18	12	Red round concrete tower; 43.	
16721 <i>M 4375.9</i>	-E. breakwater, head.	35° 12.9' N 129° 14.0' E	Fl.(2)R. period 6s	75 23	12	Red round concrete tower; 56.	
16722.5 <i>M 4375.95</i>	-S. breakwater, E. head.	35° 12.8' N 129° 14.0' E	Fl.G. period 5s	79 24	8	White round concrete tower; 56.	
16723 <i>M 4375.98</i>	-S. breakwater, W. head.	35° 12.8' N 129° 13.9' E	Fl.Y. period 5s	66 20	8	Yellow round concrete tower; 46.	
16723.5 <i>M 4375.7</i>	Songjeong Hang, E. breakwater.	35° 10.9' N 129° 12.4' E	Fl.R. period 5s	36 11	8	Red round concrete tower; 33.	
16723.51 <i>M 4375.71</i>	-W. breakwater.	35° 10.8' N 129° 12.5' E	Fl.G. period 5s	36 11	8	White round concrete tower; 33.	
16724 <i>M 4375.6</i>	Songjungri.	35° 10.0' N 129° 13.2' E	Q.(3)W. period 10s	52 16	7	E. CARDINAL BYB, tower, topmark; 50.	
16724.2	Kyosokchu.	35° 09.3' N 129° 12.4' E	Q.(3)W. period 5s	65 20	7	E. CARDINAL BYB, tower, topmark; 62.	
16724.21 <i>M 4375.53</i>	Chongsapo, W. breakwater.	35° 09.5' N 129° 11.5' E	Fl.G. period 5s	62 19	8	White round concrete tower; 56.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
16724.22 M 4375.52	-E. breakwater.	35° 09.6' N 129° 11.5' E	Fl.R. period 5s	62 19	8	Red round concrete tower; 56.	
PUSAN HANG:							
16724.3	-Suyeong Man.	35° 09.1' N 129° 10.3' E	Fl.(2)W. period 5s	92 28	7	R/YR round steel tower; 65.	
16724.4 M 4374.4	-Yacht Port, breakwater, E. head.	35° 09.3' N 129° 08.5' E	Fl.R. period 4s	36 11	5	Red conical framework structure; 7.	
16724.8 M 4374.7	--W. breakwater, head.	35° 09.4' N 129° 08.4' E	Fl.(2)G. period 6s	36 11	5	White conical framework structure; 7.	
16725.2 M 4374.5	-Center, breakwater, E. head.	35° 09.3' N 129° 08.5' E	Fl.G. period 4s	36 11	5	White conical framework structure; 7.	
16725.6 M 4374.6	--W. head.	35° 09.3' N 129° 08.4' E	Fl.(2)R. period 6s	36 11	5	Red conical framework structure; 7.	
16725.8 M 4374.8	--Suyong Man fishing harbor, E. breakwater.	35° 09.5' N 129° 08.2' E	Fl.R. period 6s	33 10	5	Red round fiberglass tower on concrete base; 22.	
16725.9 M 4374.81	---W. breakwater.	35° 09.5' N 129° 08.2' E	Fl.G. period 6s	33 10	5	White round fiberglass tower, concrete base; 22.	
16726.5 M 4374.123	Gwangandaero Bridge.	35° 09.3' N 129° 08.2' E	Fl.(4)G. period 8s	67 20	5		
16727 M 4374.2	Millaktong, E. breakwater.	35° 09.0' N 129° 07.9' E	Fl.(2)R. period 6s	52 16	5	Red round concrete tower; 32.	
16727.1 M 4374.3	-W. breakwater.	35° 09.0' N 129° 08.0' E	Fl.(2)G. period 6s	52 16	5	White round concrete tower; 32.	
16727.5	Kwangalli Meteorological Observation Station.	35° 07.9' N 129° 08.1' E	Fl.(4)Y. period 8s	36 11	7	SPECIAL Y, tower, topmark; 69.	
16727.6 M 4374.05	Yonghoman, wharf, N. corner.	35° 07.9' N 129° 07.1' E	Fl.(2)R. period 6s	21 6	7	Red steel pipe; 16.	
16727.7 M 4374.051	-E. corner.	35° 07.9' N 129° 07.1' E	Fl.(2)R. period 6s	21 6	7	Red steel pipe; 16.	
16727.8	-Sangdo.	35° 02.1' N 129° 05.7' E	Fl.(2)W. period 5s	187 57	11	ISOLATED DANGER BRB, tower, topmark; 79.	
16728 M 4356	-Yong Do.	35° 03.1' N 129° 05.5' E	Fl.(3)W. period 18s	285 87	24	White round steel tower; 112.	Visible 205° -045° . Horn. (bl. 5s, si. 40s). Radiobeacon. DGPS Station.
16730	Pusan fairway buoy.	35° 04.0' N 129° 07.9' E	Mo.(A)W. period 8s			SAFE WATER RW, pillar, topmark.	
RACON G(- - •)							
16732 M 4374	Oryuk To.	35° 05.5' N 129° 07.6' E	Fl.W. period 10s	174 53	22	White round concrete structure; 89.	Visible 203° -099° . Horn: 1 bl. ev. 40s (bl. 5s, si. 35s).
16732.8 M 4356.8	Inner breakwater, SE. head.	35° 05.5' N 129° 06.3' E	Fl.(3)G. period 7s	31 9	6	White round concrete tower; 20.	
16732.9 M 4356.9	Outer breakwater, SW. head.	35° 05.5' N 129° 06.6' E	Fl.(3)R. period 7s	31 9	5	White round concrete tower; 20.	
16733 M 4356.7	Oryukto Breakwater, NE. head.	35° 05.5' N 129° 06.8' E	Fl.Y. period 5s	59 18	8	Yellow round concrete tower; 39.	
16733.1 M 4356.6	-SW. head.	35° 05.1' N 129° 06.3' E	Iso.R. period 4s	66 20	10	Red round concrete tower; 49.	
16734 M 4356.4	Chodo Breakwater, E. head.	35° 04.8' N 129° 06.3' E	Iso.G. period 4s	66 20	12	White round concrete tower; 46.	
RACON I(• •)							

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
16735 <i>M 4356.5</i>	-W. head.	35° 04.7' N 129° 05.9' E	Fl.Y. period 5s	52 16	7	Yellow round concrete tower; 33.	
16737	Tongsan-Dong, breakwater.	35° 04.1' N 129° 05.2' E	Fl.G. period 5s	46 14	5	White round concrete tower; 29.	
16738 <i>M 4356.55</i>	Haegyeong, wharf.	35° 05.1' N 129° 05.0' E	Fl.G. period 4s	62 19	5	White round concrete tower; 43.	
16739 <i>M 4356.58</i>	Bukbin, wharf.	35° 05.4' N 129° 04.7' E	Fl.G. period 4s	36 11	7	White round steel tower; 33.	
16740.2 <i>M 4361</i>	Inner harbor, S. breakwater, head.	35° 06.2' N 129° 03.8' E	Fl.G. period 5s	59 18	11	White round concrete tower; 49.	
16748 <i>M 4360</i>	-Deungmudari.	35° 06.2' N 129° 03.5' E	Q.W.	43 13	12	N. CARDINAL BY, tower, topmark; 56.	
16748.5 <i>M 4359</i>	Gamman Wharf.	35° 06.7' N 129° 04.0' E	Fl.(2)R. period 6s	39 12	8	White round concrete tower; 33.	
16749 <i>M 4357.6</i>	Uam Viaduct, No. 1.	35° 07.6' N 129° 04.0' E	Fl.(4)Y. period 8s	17 5	5	SPECIAL Y, tower; 36.	
16749.5 <i>M 4357.8</i>	-No. 2.	35° 07.7' N 129° 04.0' E	Fl.(4)Y. period 8s	17 5	5	SPECIAL Y, tower; 36.	
16750 <i>M 4363</i>	Pusan Shipyard, pier, N. head.	35° 06.1' N 129° 03.3' E	Fl.(4)Y. period 8s	19 6	6	Yellow 4-sided metal tower; 16.	
16751 <i>M 4365</i>	Taehan Shipyard, pier, head.	35° 06.0' N 129° 02.9' E	Fl.(4)Y. period 8s	39 12	7	Yellow round metal tower; 33.	
16752 <i>M 4366</i>	Nam Hang, W. breakwater, head.	35° 05.1' N 129° 01.8' E	Fl.G. period 5s	72 22	12	White round concrete tower; 46.	
16756 <i>M 4368</i>	-E. breakwater, head.	35° 05.1' N 129° 02.0' E	Fl.R. period 5s	72 22	12	Red round concrete tower; 56.	
16756.5 <i>M 4369</i>	Namhang Bridge.	35° 04.8' N 129° 01.9' E	Fl.(3)W. period 7s	128 39	7	White ball, red stripes.	Fl.(3)Y. 7s 6M and Fl.Y. 4s 6M mark bridge and piers.
			Fl.(3)R. period 7s	128 39	7	Red cone.	36m E. of center light.
			Fl.(3)G. period 7s	128 39	7	Green square.	31m W. of center light.
	RACON		C(- • - •)		3		
16757 <i>M 4369.45</i>	South Harbour, Songdo.	35° 04.5' N 129° 01.5' E	Q.(3)W. period 10s	43 13	7	E. CARDINAL BYB, tower, topmark; 49.	
16759	-Fairway Buoy.	35° 01.7' N 129° 01.5' E	L.Fl.W. period 10s			SAFE WATER RW, pillar, topmark.	
	-RACON		N(- •)		3		
16759.3	Chonjong-san, breakwater.	35° 04.3' N 129° 01.2' E	Fl.(2)G. period 6s	52 16	5	White spar; 23.	
16759.4	-Chonjong-san, wharf.	35° 04.3' N 129° 01.1' E	Fl.(2)R. period 6s	52 16	4	Red spar; 23.	
16760 <i>M 4355.4</i>	Kamch' on Hang, E. breakwater.	35° 03.1' N 129° 00.5' E	Fl.(2)R. period 6s	105 32	12	Red round concrete tower; 99.	
16760.5 <i>M 4355.5</i>	-W. breakwater.	35° 02.9' N 129° 00.4' E	Fl.(2)G. period 6s	105 32	12	White round concrete tower; 99.	
	-RACON		Y(- • - -)		10		
16763 <i>M 4354.81</i>	-Entrance Range, front.	35° 03.7' N 128° 59.6' E	F.G.	348 106	23	Red and white metal tower; 331.	
16763.5 <i>M 4354.82</i>	--Rear, 775 meters 314° 18' from front.	35° 04.0' N 128° 59.3' E	F.G.	535 163	23	Red and white round concrete tower; 128.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
16764 M 4355	Tudo.	35° 02.9' N 129° 00.9' E	Fl.(3)W. period 7s	177 54	8	White round concrete tower; 26.	Visible 204° -163° .
16765	-SW.	35° 02.6' N 129° 01.0' E	Fl.(2)R. period 6s	59 18	8	STARBOARD (B) R, beacon, topmark; 59.	Visible 249° -176° .
16768 M 4354	So Do.	35° 01.5' N 128° 58.5' E	Fl.W. period 6s	390 119	8	White round concrete structure; 30.	
	RACON		M(- -)		10		
16768.5	Songdo.	35° 02.6' N 128° 59.5' E	Fl.R. period 4s	66 20	5	STARBOARD (B) R, tower, topmark; 49.	
16769 M 4354.7	-Jadam Mal.	35° 02.4' N 129° 00.1' E	Q.(6)+L.Fl.W. period 15s	63 19	8	S. CARDINAL YB, tower, topmark; 46.	
16770 M 4354.5	Kyungdo.	35° 02.0' N 128° 59.1' E	Fl.W. period 5s	135 41	11	White octagonal concrete tower; 33.	
16771 M 4354.8	Tadaepo.	35° 03.2' N 128° 59.0' E	Fl.G. period 10s	36 11	6	White round concrete tower; 30.	
16771.5	-Fishing harbor.	35° 03.2' N 128° 58.9' E	Fl.(3)R. period 8s	36 11	9	STARBOARD (B) R, beacon; 33.	
16772 M 4353.5	Mokto.	34° 58.8' N 128° 59.4' E	Fl.(2)W. period 6s	226 69	11	White round concrete tower; 30.	
	RACON		B(- • • •)		10		
16773 M 4353.965	Nagdong Gang, breakwater, head.	35° 05.8' N 128° 55.7' E	Fl.G. period 5s	26 8	8	White round concrete tower; 36.	
16773.5 M 4353.8	Sinjeon eo Hang, S. breakwater.	35° 05.6' N 128° 53.9' E	Fl.R. period 5s	36 11	8	Red round concrete tower; 26.	
16773.51 M 4353.85	-N. breakwater.	35° 05.6' N 128° 53.9' E	Fl.G. period 5s	36 11	8	White round concrete tower; 26.	
16774 M 4352.4	Shinho Bridge Navigaton Channel, center.	35° 05.2' N 128° 53.8' E	Iso.W. period 4s	23 7	10	White round daymark, red stripes.	
16774.5	Naktongpo Bridge Navigation channel, center.	35° 06.2' N 128° 55.9' E	Fl.W. period 4s	23 7	7	White round daymark, red stripes.	
16775	Pukyongjedo.	34° 56.0' N 128° 58.4' E	Fl.W. period 4s	164 50	12	White round concrete tower; 63.	
16775.5 M 4353.7	Namhyongjedo.	34° 53.1' N 128° 57.1' E	Fl.(2)W. period 5s	108 33	12	ISOLATED DANGER BRB, tower, topmark; 92.	
16775.7	Taehang-ni, E.	35° 00.9' N 128° 50.1' E	Fl.G. period 5s	36 11	5	White octagonal structure; 30.	
16776 M 4352	Tongdu-mal.	34° 59.4' N 128° 49.7' E	Fl.W. period 12s	344 105	21	White octagonal concrete tower; 133.	Visible 223° -137° . Siren: 1 bl. ev. 55s.
16778 M 4351.8	Daejug Do.	35° 00.3' N 128° 47.0' E	Fl.W. period 6s	66 20	8	White round concrete tower; 39.	
	RACON		O(- - -)		10		
16779 M 4352.3	Taehang-ni.	35° 00.7' N 128° 49.5' E	Fl.G. period 5s	49 15	8	White round concrete tower; 34.	
16779.5 M 4350.8	Geoga Bridge.	35° 00.9' N 128° 45.2' E	Iso.W. period 4s	125 38	7	White circular daymark, red stripes.	Iso.R. 4s 38m 8M and Iso.G. 4s 38m 7M mark width of navigable span.
16779.7 M 4350.5	Jeo Do Bridge, N. span.	35° 01.0' N 128° 43.6' E	Iso.W. period 6s	125 38	7	White circular daymark, red stripes.	Iso.R. 6s 38m 7M and Iso.G. 6s 38m 7M mark width of navigable span. Visible 089° -269° .

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
16779.71 <i>M 4350.6</i>	-S. span.	35° 01.0' N 128° 43.8' E	Iso.W. period 6s	125 38	7	White circular daymark, red stripes.	Iso.R. 6s 38m 7M and Iso.G. 6s 38m 7M mark width of navigable span. Visible 269° -089°.
	-RACON		G(- - •)		13		
16780 <i>M 4351</i>	Saegeun Seo.	35° 01.7' N 128° 44.1' E	Fl.(2)W. period 5s	38 12	8	ISOLATED DANGER BRB, tower, topmark; 36.	
16780.4 <i>M 4350.1</i>	Uho Hang, E. breakwater.	35° 01.7' N 128° 43.0' E	Fl.G. period 4s	30 9	5	White round steel tower; 15.	
16780.5 <i>M 4350.2</i>	-N. breakwater.	35° 01.7' N 128° 42.9' E	Fl.R. period 4s	26 8	5	Red round steel tower; 15.	
16781	Chang-mal, breakwater, W. head.	35° 04.7' N 128° 46.9' E	Fl.(2)R. period 6s	20 6	6	Red square steel tower; 12.	
16781.1	-E. head.	35° 04.7' N 128° 47.1' E	Fl.(2)Y. period 6s	20 6	7	Yellow square steel tower; 12.	
16781.5 <i>M 4351.15</i>	Angolpo.	35° 05.6' N 128° 47.4' E	Fl.R. period 5s	46 14	8	Red octagonal concrete tower; 36.	
16782 <i>M 4351.4</i>	Kojin-mal, breakwater, W. head.	35° 02.9' N 128° 47.2' E	Fl.R. period 4s	128 39	11	Red square concrete tower; 89.	
16782.1 <i>M 4351.5</i>	--E. head.	35° 02.9' N 128° 47.6' E	Fl.Y. period 6s	75 23	10	Yellow octagonal concrete tower; 69.	
16783 <i>M 4351.3</i>	Yondo, breakwater.	35° 03.5' N 128° 46.7' E	Fl.G. period 4s	112 34	12	White square concrete tower; 62.	
16784	<i>Kadok Sudo Center Buoy No. C.</i>	35° 01.4' N 128° 47.3' E	Mo.(A)W. period 8s			SAFE WATER RW, pillar.	
	RACON		N(- •)				
16788	-No. 2.	35° 02.5' N 128° 40.5' E	L.Fl.W. period 10s			SAFE WATER RW, pillar.	
	-RACON		K(- • -)		10		
16792 <i>M 4345</i>	Toggi Seom.	35° 04.6' N 128° 42.9' E	Fl.W. period 4s	226 69	8	White round concrete tower; 49.	
16796 <i>M 4344</i>	Ch'ori Do.	35° 04.5' N 128° 41.3' E	Fl.W. period 6s	164 50	8	White round concrete tower; 39.	
16800 <i>M 4347</i>	Madang So.	35° 06.4' N 128° 40.8' E	Fl.(2)W. period 5s	46 14	8	ISOLATED DANGER BRB, beacon, topmark; 43.	Storm signal.
16802 <i>M 4347.5</i>	Chungjuk To.	35° 08.1' N 128° 40.9' E	Fl.(2)W. period 5s	46 14	8	ISOLATED DANGER BRB, tower, topmark; 46.	
16803 <i>M 4347.7</i>	Jinhae-hang, breakwater.	35° 08.5' N 128° 40.5' E	Fl.G. period 4s	43 13	5	White round concrete tower; 33.	
16804 <i>M 4346</i>	Dotumari Am.	35° 05.8' N 128° 40.7' E	Fl.(2)W. period 5s	46 14	12	ISOLATED DANGER BRB, beacon, topmark; 46.	
16805 <i>M 4345.3</i>	Umji-do.	35° 05.4' N 128° 43.0' E	Fl.(2)W. period 5s	36 11	8	ISOLATED DANGER BRB, beacon, topmark; 43.	
16808 <i>M 4343</i>	Dochinyeo.	35° 04.6' N 128° 40.4' E	Fl.(2)W. period 5s	33 10	8	ISOLATED DANGER BRB, beacon, topmark; 39.	
	RACON		C(- • - •)		10		(3 & 10 cm)
16810	-Bridge.	35° 12.6' N 128° 37.3' E	F.W.	36 11	5	White round daymark, red stripes.	Marks center of navigable span.
MASAN HANG:							
16811	-E. breakwater, E. head.	35° 12.2' N 128° 35.1' E	Fl.G. period 4s	30 9	8	White round fiberglass tower; 21.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
16812	--W. head.	35° 12.2' N 128° 35.0' E	Fl.R. period 4s	30 9	8	Red round fiberglass tower; 21.	
16813 <i>M 4349.2</i>	-Detached breakwater, E. head.	35° 12.1' N 128° 35.0' E	Fl.G. period 6s	38 12	8	White round concrete tower; 32.	
16814 <i>M 4349.3</i>	--W. head.	35° 12.0' N 128° 34.8' E	Fl.R. period 6s	38 12	8	Red round concrete tower; 32.	
16815 <i>M 4348.8</i>	--W. detached breakwater, E. head.	35° 12.0' N 128° 34.7' E	Fl.G. period 4s	28 9	8	White round fiberglass tower; 25.	
16815.5 <i>M 4348.9</i>	---W. head.	35° 12.1' N 128° 34.7' E	Fl.R. period 4s	30 9	8	White round fiberglass tower; 25.	
16815.9 <i>M 4348.7</i>	Masan Hang.	35° 11.9' N 128° 34.6' E	Fl.G. period 4s	43 13	8	White round structure.	
16816 <i>M 4348</i>	Makkae Do.	35° 08.3' N 128° 36.0' E	Fl.W. period 4s	65 20	16	White round concrete tower; 33.	
16817	Breakwater, head.	35° 08.0' N 128° 37.7' E	Fl.G.	7 2		White concrete cone; 10.	
16817.1 <i>M 4342.54</i>	Paengnaegi-san, E. breakwater, N. head.	35° 04.2' N 128° 38.2' E	Fl.G. period 5s	16 5	6	White round steel tower; 13.	
16817.2 <i>M 4342.53</i>	--S. head.	35° 04.1' N 128° 38.3' E	Fl.R. period 5s	16 5	6	Red round steel tower; 13.	
16817.3 <i>M 4342.5</i>	-W. breakwater, head.	35° 04.0' N 128° 37.8' E	Fl.G. period 4s	46 14	6	White round concrete tower; 30.	
16817.4 <i>M 4342.51</i>	-S. breakwater, E. head.	35° 04.0' N 128° 37.9' E	Fl.G. period 4s	46 14	6	White round concrete tower; 30.	
16817.5 <i>M 4342.52</i>	--W. head.	35° 03.9' N 128° 37.8' E	Fl.R. period 4s	46 14	5	Red round concrete tower; 30.	
16818 <i>M 4342.4</i>	Paegam (Baeg Am).	35° 02.5' N 128° 37.7' E	Fl.G. period 5s	46 14	5	PORT (B) G, beacon, topmark; 43.	
	RACON		B (- • • •)		10		
16819 <i>M 4342</i>	Hugam.	35° 02.4' N 128° 36.6' E	Fl.(2)W. period 5s	39 12	8	ISOLATED DANGER BRB, beacon, topmark; 43.	
16820.5	Bokjingaeyeo.	35° 03.9' N 128° 34.0' E	Fl.G. period 4s	23 7	5	Green round concrete tower; 27.	
16820.9 <i>M 4340.978</i>	Jindong Hang, E. breakwater.	35° 05.9' N 128° 28.8' E	Fl.R. period 6s	33 10	6	Red round concrete tower; 26.	
16820.93 <i>M 4340.979</i>	-W. breakwater.	35° 05.9' N 128° 28.8' E	Fl.G. period 4s	33 10	5	White round concrete tower; 26.	
16821 <i>M 4340.98</i>	Kwangam Hang, breakwater.	35° 06.1' N 128° 29.7' E	Fl.R. period 4s	39 12	5	Red round concrete tower; 23.	
16821.03 <i>M 4340.983</i>	-Pier.	35° 06.2' N 128° 29.7' E	Fl.G. period 4s	23 7	5	White round metal tower; 16.	
16821.1 <i>M 4340.99</i>	Changgun-san Bridge.	35° 04.5' N 128° 28.0' E	Iso.Y. period 4s	79 24	6		
16821.2 <i>M 4340.984</i>	Suu-do.	35° 05.3' N 128° 30.5' E	Fl.(2)W. period 5s	36 11	8	ISOLATED DANGER BRB, tower, topmark; 52.	
16821.5 <i>M 4340.974</i>	Dangdong Hang.	34° 59.3' N 128° 24.6' E	Fl.R. period 4s	36 11	5	Red round concrete tower; 26.	
16822 <i>M 4342.7</i>	Sobombuk To.	35° 00.1' N 128° 39.7' E	Q.W.	43 13	8	N. CARDINAL BY, beacon, topmark; 46.	
16823 <i>M 4340.85</i>	Chilcheon Bridge.	34° 58.8' N 128° 38.9' E	Iso.W. period 4s	62 19	7	Red round daymark, white stripes.	Iso.R. 4s 19m 4M and Iso.G. 4s 19m 4M mark width of navigable span. Iso.Y. 4s 14m 6M mark bridge pilings.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
16824 <i>M 4340.8</i>	Mae Am.	34° 58.3' N 128° 38.9' E	Fl.G. period 4s	31	9	5 PORT (B) G, tower, topmark; 33.	
16826	Buoy 1.	35° 00.3' N 128° 34.8' E	Fl.G. period 4s			PORT (B) G, pillar, topmark.	
	RACON		M(- -)				
16828 <i>M 4341</i>	Hwangdok To.	35° 00.7' N 128° 37.2' E	Fl.W. period 6s	299	91	15 White round concrete tower; 52.	
16829 <i>M 4351.9</i>	Kyok-to.	34° 58.8' N 128° 42.7' E	Q.(3)W. period 10s	56	17	8 E. CARDINAL BYB, beacon, topmark; 52.	
16830 <i>M 4340.9</i>	Samsong, seaberth.	34° 54.6' N 128° 35.8' E	Fl.R. period 4s	27	8	5 Red round fiberglass tower; 13.	
16832 <i>M 4341.4</i>	Yech' im Do.	34° 56.7' N 128° 35.1' E	Fl.W. period 6s	138	42	8 White round concrete tower; 36.	
16836 <i>M 4340.7</i>	Ogapo Hang, N. harbor.	34° 56.2' N 128° 43.3' E	Fl.G. period 4s	33	10	5 White round concrete structure; 26.	
16838 <i>M 4340.75</i>	-E. breakwater.	34° 56.2' N 128° 43.3' E	Fl.R. period 6s	46	14	5 Red octagonal concrete tower; 27.	
16840 <i>M 4340.5</i>	Okp'o Hang, S. breakwater, head.	34° 53.5' N 128° 43.3' E	Fl.G. period 4s	33	10	5 White round concrete structure; 23.	
16844 <i>M 4340.6</i>	-N. breakwater, head.	34° 53.6' N 128° 43.2' E	Fl.R. period 4s	39	12	6 Red round concrete structure; 36.	
16846 <i>M 4340.4</i>	Nungpo Hang, E. breakwater, head.	34° 53.2' N 128° 44.4' E	Fl.G. period 6s	42	13	5 White round concrete tower; 36.	
16847 <i>M 4340.45</i>	-W. breakwater, head.	34° 53.1' N 128° 44.3' E	Fl.R. period 6s	42	13	5 Red round concrete tower; 36.	
16848 <i>M 4340.3</i>	Yangjiam Chwi.	34° 53.5' N 128° 45.2' E	Fl.W. period 6s	190	58	8 White octagonal tower; 28.	
CHANGSUNGPO MAN:							
16852 <i>M 4338</i>	-E. breakwater, head.	34° 51.8' N 128° 43.7' E	Fl.R. period 5s	36	11	5 Red round concrete tower; 26.	
16856 <i>M 4340</i>	-W. breakwater, head.	34° 51.8' N 128° 43.7' E	Fl.G. period 5s	39	12	5 White round concrete tower; 20.	
16857 <i>M 4337.3</i>	Chisepo Hang, detached breakwater, E. head.	34° 49.7' N 128° 42.8' E	Fl.R. period 5s	39	12	5 Red octagonal concrete tower; 29.	
16857.5 <i>M 4337.4</i>	-W. head.	34° 49.7' N 128° 42.5' E	Fl.G. period 5s	39	12	5 White octagonal concrete tower; 29.	
16860 <i>M 4336</i>	Soi Mal.	34° 47.0' N 128° 44.5' E	Fl.W. period 20s	354	108	20 White concrete tower; 25.	Visible 207° -038°. Siren: 2 bl. ev. 60s.
16861	Tadaetap'o Hang, E. breakwater, head.	34° 43.6' N 128° 37.8' E	Fl.R. period 5s	42	13	5 Red octagonal concrete tower; 27.	
16861.5	-W. breakwater, head.	34° 43.6' N 128° 37.9' E	Fl.G. period 5s	46	14	5 White octagonal concrete tower; 27.	
16862 <i>M 4335</i>	Bugyeo Do.	34° 41.0' N 128° 46.5' E	Fl.(2)W. period 5s	79	24	8 ISOLATED DANGER BRB, tower; 75.	
	RACON		B(- • • •)			10	
16864 <i>M 4334</i>	Hong Do.	34° 32.0' N 128° 44.1' E	Fl.W. period 10s	384	117	19 White framework structure; 26.	
	RACON		Y(- • - -)			10	
16868 <i>M 4322.7</i>	Chwasari Do.	34° 33.2' N 128° 20.7' E	Fl.W. period 4s	177	54	8 White round concrete tower; 24.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
16872 <i>M 4332</i>	Somaemul To.	34° 37.2' N 128° 32.9' E	Fl.W. period 13s	298 91	26	White round concrete tower; 43.	Visible 235° -285° , 295° - 305° , 320° -170° . Siren: 1 bl. ev. 50s (bl. 5s, si. 45s).
16873 <i>M 4334.2</i>	Maemuldo Hang, N. breakwater.	34° 39.0' N 128° 34.4' E	Fl.R. period 5s	46 14	5	Red round concrete tower; 26.	
16873.1 <i>M 4334.21</i>	-E. breakwater.	34° 38.9' N 128° 34.5' E	Fl.G. period 5s	33 10	6	White round tower; 26.	
16874 <i>M 4333</i>	Goam Island.	34° 29.9' N 128° 28.6' E	Fl.W. period 6s	98 30	8	White round concrete tower; 23.	
	RACON		M(- -)		10		
16875 <i>M 4332.5</i>	Sojido.	34° 38.5' N 128° 28.3' E	Fl.W. period 6s	161 49	8	White round tower; 29.	
16875.5	Taebyongdaedo.	34° 40.9' N 128° 37.6' E	Fl.G. period 5s	85 26	5	PORT (B) G, tower, topmark; 69.	Visible 225° -089° .
16876 <i>M 4331.7</i>	Sokmun-do.	34° 41.6' N 128° 36.0' E	Fl.W. period 5s	56 17	8	White round concrete tower; 25.	
16876.5	Kaodo.	34° 40.7' N 128° 35.0' E	Fl.W. period 6s	56 17	8	White round concrete tower; 39.	
16876.7	Oyudo.	34° 39.3' N 128° 34.5' E	Fl.W. period 6s	52 16	8	White round concrete tower; 39.	
16876.9 <i>M 4331.55</i>	Daepo Hang, breakwater.	34° 43.0' N 128° 35.1' E	Fl.R. period 4s	36 11	5	Red round concrete tower; 27.	
16877 <i>M 4331.6</i>	Mangsangak.	34° 41.2' N 128° 34.6' E	Fl.W. period 5s	49 15	8	White round concrete tower; 25.	
16879 <i>M 4330.2</i>	Kajo-do, breakwater.	34° 57.6' N 128° 31.9' E	Fl.W. period 5s	26 8	8	White round metal tower; 15.	
16879.3 <i>M 4330.3</i>	Dolkkeuchyeo.	34° 57.5' N 128° 30.0' E	Fl.(2)W. period 10s	33 10	8	ISOLATED DANGER BRB, tower, topmark; 33.	
16879.5 <i>M 4330.15</i>	Gajo Do Bridge.	34° 55.6' N 128° 31.6' E	F.W.	89 27	7	Center light, round, red vertical stripes.	F.R. 26m 8M and F.G. 26m 7M mark width of navigable span. F.Y. 26m 7M mark bridge pilings.
16880 <i>M 4330</i>	Songp'o Hang, E. breakwater.	34° 55.4' N 128° 31.5' E	Fl.G. period 6s	33 10	5	White round concrete tower; 27.	
16880.5 <i>M 4330.1</i>	-W. breakwater.	34° 55.3' N 128° 31.4' E	Fl.R. period 6s	33 10	5	Red round concrete tower; 26.	
16881 <i>M 4329.5</i>	Norusom.	34° 55.3' N 128° 31.2' E	Fl.G. period 5s	33 10	5	PORT (B) G, tower, topmark; 43.	
16882 <i>M 4325.1</i>	Iun Hang, breakwater.	34° 48.0' N 128° 26.1' E	Fl.G. period 4s	39 12	5	White round concrete tower; 26.	
16884 <i>M 4322.9</i>	Pu-do.	34° 46.1' N 128° 22.2' E	Fl.W. period 5s	151 46	8	White round concrete tower; 27.	
16886 <i>M 4322.85</i>	Ch'u Do.	34° 45.1' N 128° 18.5' E	Fl.W. period 6s	434 132	8	White round concrete tower; 39.	
16886.5 <i>M 4322.82</i>	Hangnim Hang, breakwater.	34° 45.0' N 128° 24.5' E	Fl.G. period 4s	39 12	5	White round concrete tower; 26.	
16886.7 <i>M 4331.15</i>	Hapo Hang, breakwater.	34° 45.6' N 128° 28.7' E	Fl.G. period 4s	39 12	5	White round concrete tower; 26.	
16887 <i>M 4322.87</i>	Tongyeong, breakwater No. A.	34° 45.8' N 128° 23.3' E	Fl.G. period 4s	20 6	6	White round steel tower; 13.	
16887.1 <i>M 4322.875</i>	-No. B.	34° 45.9' N 128° 23.2' E	Fl.R. period 4s	20 6	5	Red round steel tower; 13.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
16887.5 <i>M 4331.515</i>	Naehang Hang, breakwater.	34° 44.0' N 128° 27.6' E	Fl.R. period 4s	39 12	5	Red round concrete tower; 26.	
16888 <i>M 4322.8</i>	Jeo Do, on islet close W. of Jo Do.	34° 44.7' N 128° 23.7' E	Fl.(2)W. period 5s	29 9	8	ISOLATED DANGER BRB, tower, topmark; 33.	
16892 <i>M 4324</i>	Jo Do, N. end of island.	34° 45.1' N 128° 25.6' E	Fl.W. period 4s	180 55	8	White round concrete tower; 52.	Visible 331° -066°.
16893 <i>M 4322.75</i>	Ogokdo.	34° 43.1' N 128° 25.8' E	Fl.W. period 6s	200 61	8	White hexagonal concrete tower; 37.	
16894 <i>M 4322.72</i>	P'yongso.	34° 41.4' N 128° 24.3' E	Fl.G. period 4s	49 15	5	PORT (B) G, tower, topmark; 46.	
16896 <i>M 4331.5</i>	Kaksu-so.	34° 45.0' N 128° 27.6' E	Fl.(2)W. period 5s	49 15	8	ISOLATED DANGER BRB, tower, topmark; 43.	
	RACON		C(- • - •)		10		
16898 <i>M 4330.7</i>	Pongam Do.	34° 44.8' N 128° 33.7' E	Fl.W. period 6s	72 22	8	White round concrete tower; 43.	
16899 <i>M 4330.8</i>	Pisando.	34° 48.6' N 128° 29.5' E	Fl.G. period 6s	33 10	5	Green round concrete tower; 36.	
16900 <i>M 4331</i>	Cheolcho, on islet close W. of Pongram Do.	34° 45.3' N 128° 30.5' E	Fl.R. period 4s	36 11	6	STARBOARD (B) R, tower, topmark; 33.	
16902 <i>M 4331.25</i>	Changjakji Hang, breakwater.	34° 46.3' N 128° 28.3' E	Fl.R. period 4s	39 12	5	Red round concrete tower; 26.	
16904 <i>M 4330.9</i>	Koje Man.	34° 46.9' N 128° 32.0' E	Fl.W. period 5s	49 15	8	White round concrete tower; 46.	
16908 <i>M 4325</i>	Hansan Hang.	34° 47.9' N 128° 28.3' E	Fl.W. period 4s	42 13	8	Round concrete structure; 42.	
16911 <i>M 4325.4</i>	Taech'o.	34° 49.4' N 128° 27.8' E	Fl.R. period 5s	33 10	5	STARBOARD (B) R, tower, topmark; 33.	
16912 <i>M 4326</i>	Panghwa Do.	34° 50.1' N 128° 27.5' E	Fl.W. period 4s	95 29	8	White square metal tower; 32.	
16914 <i>M 4325.7</i>	Tonam Hang, breakwater, E. head.	34° 49.6' N 128° 26.3' E	Fl.R. period 4s	40 12	5	White octagonal concrete tower; 28.	
16915 <i>M 4325.8</i>	-W. head.	34° 49.7' N 128° 26.2' E	Fl.(2)G. period 6s	40 12	5	White octagonal concrete tower; 28.	
16915.5 <i>M 4325.55</i>	--Breakwater, W. head.	34° 49.9' N 128° 26.1' E	Fl.(2)R. period 6s	40 12	5	Red octagonal concrete tower; 28.	
16915.7 <i>M 4325.5</i>	---E. head.	34° 49.6' N 128° 26.4' E	Fl.G. period 4s	30 9	5	White octagonal concrete tower; 20.	
16916 <i>M 4326.5</i>	Tongyeong Hang, Changso.	34° 50.3' N 128° 26.1' E	Q.(6)+L.Fl.W. period 15s	39 12	8	S. CARDINAL YB, beacon, topmark; 43.	
16918 <i>M 4325.9</i>	-N. breakwater.	34° 50.3' N 128° 26.6' E	Fl.R. period 4s	42 13	5	Red round concrete tower; 34.	
16918.5 <i>M 4325.85</i>	-S. breakwater.	34° 50.2' N 128° 26.6' E	Fl.G. period 4s	42 13	5	White round concrete tower; 34.	
16919 <i>M 4326.55</i>	Dongho-dong, breakwater, head.	34° 50.2' N 128° 25.8' E	Fl.R. period 5s	39 12	8	Red round concrete tower; 23.	
16920 <i>M 4323.6</i>	Tongyeong Hang, No. 7.	34° 50.2' N 128° 25.0' E	Fl.G. period 5s	31 9	8	PORT (B) G, tower, topmark; 52.	
16924 <i>M 4323.8</i>	-No. 8.	34° 50.2' N 128° 25.0' E	Fl.R. period 5s	26 8	8	STARBOARD (B) R, tower, topmark; 46.	
16928 <i>M 4327</i>	Saso.	34° 50.9' N 128° 27.8' E	Fl.W. period 6s	59 18	8	White round concrete tower; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
16929 <i>M 4326.3</i>	-Ch'ungmu Hang Approach.	34° 50.5' N 128° 27.3' E	Fl.G. period 5s	49 15	5	PORT (B) G, tower, topmark; 37.	
16929.9	Yepo Hang, breakwater.	34° 56.4' N 128° 25.6' E	Fl.G. period 4s	36 11	5	White round concrete tower; 27.	
16930	Kojedo.	34° 56.1' N 128° 26.6' E	Fl.(2)W. period 5s	36 11	8	ISOLATED DANGER BRB, beacon, topmark; 33.	
16931 <i>M 4340.975</i>	Anjeong Hang, breakwater.	34° 57.0' N 128° 26.0' E	Fl.R. period 6s	49 15	7	Red round concrete tower; 36.	
16931.1 <i>M 4340.977</i>	-Dolphin.	34° 57.0' N 128° 26.4' E	Fl.(4)Y. period 8s	40 12	7	Yellow round fiberglass tower; 13.	Horn: 1 bl. ev. 20s (bl. 5s, si. 15s).
16932 <i>M 4329</i>	Myeongdeungdo.	34° 53.9' N 128° 28.9' E	Fl.(2)W. period 6s	82 25	8	White round concrete tower; 43.	Visible 016° -302° .
16936 <i>M 4328</i>	Kyonnaeryang Haehyop (Hyonnaeryang Haehyop).	34° 52.9' N 128° 28.5' E	Fl.G. period 4s	37 11	5	PORT (B) G, tower, topmark; 39.	
16940	Tongyong bridge.	34° 49.9' N 126° 24.4' E	Iso.W. period 4s	66 20	7		
16942 <i>M 4323.1</i>	Shrirammal.	34° 49.6' N 128° 23.2' E	Fl.W. period 6s	56 17	8	White square concrete tower; 36.	
16952 <i>M 4323</i>	Pil To.	34° 51.0' N 128° 20.6' E	Fl.W. period 4s	46 14	8	White round concrete tower; 17.	
16953	Tongyoung, breakwater.	34° 51.4' N 128° 23.0' E	Fl.R. period 6s	36 11	5	Red round concrete tower; 27.	
16953.5	Kyobon-cho.	34° 42.3' N 128° 18.4' E	Fl.(2)W. period 5s	46 14	10	ISOLATED DANGER BRB, beacon, topmark; 46.	
	RACON		K(- • -)		10		(3 & 10 cm).
16954 <i>M 4322.5</i>	Bong Do.	34° 39.9' N 128° 18.3' E	Fl.W. period 6s	351 107	8	White round concrete tower; 36.	
16956 <i>M 4322.6</i>	Yogji Do, W. breakwater.	34° 37.8' N 128° 16.6' E	Fl.R. period 4s	46 14	5	Red octagonal concrete tower; 27.	
16956.3	-E. breakwater.	34° 37.7' N 128° 16.6' E	Fl.G. period 4s	39 12	5	White octagonal concrete tower; 27.	
16956.5 <i>M 4322.65</i>	-S. breakwater.	34° 38.0' N 128° 16.4' E	Fl.(2)Y. period 6s	37 11	7	Yellow octagonal concrete tower; 27.	
16958	Napjakyeo.	34° 39.3' N 128° 20.5' E	Fl.(2)W. period 5s	43 13	8	ISOLATED DANGER BRB, beacon; 46.	
16960 <i>M 4322.4</i>	Yokjido , SW point.	34° 36.9' N 128° 14.5' E	Fl.W. period 5s	640 195	19	White round concrete tower; 43.	Visible 269° -146° .
16961	Heukcho.	34° 36.4' N 128° 15.6' E	Fl.(2)W. period 5s	46 14	8	ISOLATED DANGER BRB, beacon; 46.	
16962 <i>M 4321.55</i>	Hadaeho Do.	34° 52.5' N 128° 14.8' E	Fl.W. period 6s	154 47	8	White round concrete tower; 39.	
16963 <i>M 4321.8</i>	Maekjomp'o Hang, W. breakwater.	34° 53.7' N 128° 10.1' E	Fl.G. period 6s	33 10	6	White steel staff; 16.	
16963.5	-Inner breakwater, head.	34° 53.8' N 128° 10.1' E	Fl.R. period 6s	39 12	5	Red octagonal concrete tower; 27.	
16964 <i>M 4321</i>	Yulpo Mal.	34° 53.2' N 128° 08.1' E	Fl.W. period 4s	105 32	8	White round tower; 18.	Visible 270° -132° .
16965 <i>M 4321.08</i>	Shinsu Hana, N. breakwater.	34° 54.0' N 128° 04.4' E	Fl.G. period 4s	40 12	5	White round concrete tower; 31.	
16966 <i>M 4321.12</i>	-S. breakwater.	34° 53.9' N 128° 04.4' E	Fl.R. period 4s	39 12	5	Red round concrete tower; 31.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
16968 <i>M 4320.45</i>	Chu Do.	34° 54.4' N 128° 05.2' E	Q.(3)W. period 10s	39 12	8	E. CARDINAL BYB, beacon, topmark; 29.	
16972 <i>M 4317</i>	Jeo Do.	34° 56.4' N 128° 01.9' E	Fl.W. period 6s	59 18	8	White round concrete structure; 19.	
16974 <i>M 4317.5</i>	Changso.	34° 55.8' N 128° 02.6' E	Fl.G. period 6s	43 13	5	PORT (B) G, beacon, topmark; 56.	
16974.2 <i>M 4318.2</i>	Taebang-Mogaesom bridge.	34° 55.7' N 128° 03.0' E	Iso.W. period 4s	115 35	7	Center light, red round daymark.	Iso.R. 4s 35m 5M and Iso.G. 4s 35m 4M mark width of navigable span. Iso.Y. 4s 33m 6M mark bridge pilings.
16974.4 <i>M 4318.4</i>	Mogaesom-Choyangsom bridge.	34° 55.6' N 128° 02.8' E	Iso.W. period 4s	85 26	7	Center light, red round daymark.	Iso.R. 4s 26m 5M and Iso.G. 4s 26m 4M mark width of navigable span. Iso.Y. 4s 25m 6M mark bridge pilings.
16974.6 <i>M 4317.9</i>	Choyangsom-Nukto bridge.	34° 55.4' N 128° 02.5' E	Iso.W. period 4s	75 23	7	Center light, white round daymark, red stripes.	Iso.R. 4s 23m 5M and Iso.G. 4s 23m 4M mark width of navigable span. Iso.Y. 4s 13m 6M mark piers.
16975 <i>M 4317.7</i>	Nuk-to, E. breakwater.	34° 55.5' N 128° 02.4' E	Fl.G. period 4s	36 11	6	White round steel tower; 26.	
16976 <i>M 4318</i>	-On rock, E. entrance to Chinju Man.	34° 55.3' N 128° 03.3' E	Fl.R. period 5s	42 13	5	STARBOARD (B) R, tower, topmark; 49.	
16977 <i>M 4318.5</i>	Gwangseo.	34° 55.1' N 128° 03.3' E	Q.W.	39 12	8	N. CARDINAL BY, beacon, topmark; 39.	
16978 <i>M 4319.5</i>	Paman.	34° 54.5' N 128° 04.1' E	Fl.(2)W. period 5s	43 13	8	ISOLATED DANGER BRB, beacon, topmark; 49.	
SAMCHEONPO:							
16981 <i>M 4320.3</i>	-Daebang Hang, E. breakwater.	34° 55.7' N 128° 03.4' E	Fl.R. period 4s	39 12	5	Red round concrete tower; 30.	
16981.5 <i>M 4320.35</i>	--W. breakwater, head.	34° 55.6' N 128° 03.5' E	Fl.G. period 4s	39 12	6	White round concrete tower; 30.	
16983 <i>M 4320.42</i>	---S.	34° 55.5' N 128° 03.9' E	Fl.(2)G. period 6s	36 11	7	White round concrete tower; 33.	
16983.1 <i>M 4320.43</i>	---N.	34° 55.6' N 128° 03.8' E	Fl.(4)Y. period 8s	26 8	7	Yellow round steel tower; 16.	
16983.3 <i>M 4320.4</i>	-E. breakwater, head.	34° 55.4' N 128° 04.1' E	Fl.(2)R. period 6s	39 12	7	Red round concrete tower; 33.	
16984	-Hang Nae, breakwater, head.	34° 55.2' N 128° 04.2' E	Fl.R. period 4s	39 12	9	Red round concrete tower; 26.	
16986 <i>M 4320.2</i>	-Shin Hang.	34° 55.0' N 128° 05.0' E	Fl.R. period 5s	49 15	8	Red round concrete tower; 33.	
16988 <i>M 4320.6</i>	--Range, front.	34° 54.0' N 128° 06.0' E	FR.	102 31	7	Red square metal framework tower; 82.	Visible 018° -033° .
16992 <i>M 4320.61</i>	---Rear, 370 meters 025° 24' from front.	34° 54.8' N 128° 06.4' E	FR.	128 39	7	Black square metal framework tower; 108.	Visible 018° -033° .
16995	-Breakwater, head.	34° 53.8' N 128° 06.3' E	Fl.(2)R. period 6s	36 11	5	Red round fiberglass tower; 22.	
16996 <i>M 4320.5</i>	-Coal pier.	34° 54.0' N 128° 07.0' E	FR.	33 10	6	Red square metal tower; 13.	
16999 <i>M 4319.2</i>	-W. breakwater, head.	34° 55.3' N 128° 04.5' E	Fl.R. period 6s	43 13	9	Red round concrete tower; 30.	
17000 <i>M 4319</i>	-Hang Do.	34° 55.2' N 128° 04.9' E	Fl.W. period 4s	49 15	8	White round concrete tower; 26.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
17001 <i>M 4321.13</i>	Chongnyang Hang.	34° 51.4' N 128° 03.6' E	Fl.R. period 6s	49 15	5	Red octagonal concrete tower; 36.	
17004 <i>M 4321.2</i>	Jang Got, on SE point of Ch' angson Do.	34° 49.6' N 128° 05.3' E	Fl.W. period 5s	118 36	8	White round fiberglass structure; 23.	
17006 <i>M 4321.31</i>	Myoso.	34° 52.7' N 128° 11.5' E	Fl.(2)W. period 5s	49 15	8	ISOLATED DANGER BRB, tower, topmark; 36.	
17008 <i>M 4321.5</i>	Saryang-do.	34° 51.0' N 128° 12.0' E	Fl.W. period 5s	52 16	8	White round concrete tower; 33.	
17008.1	Donji Hang.	34° 50.2' N 128° 10.9' E	Fl.G. period 6s	33 10	5	White round concrete tower; 26.	
17008.5 <i>M 4321.52</i>	Tonggang.	34° 50.3' N 128° 14.3' E	Fl.W. period 4s	197 60	8	White round concrete tower; 24.	
17010 <i>M 4321.58</i>	Neunryang Po, W. breakwater.	34° 48.4' N 128° 14.7' E	Fl.G. period 6s	33 10	5	White round concrete tower; 24.	
17010.5 <i>M 4321.59</i>	-E. breakwater.	34° 48.4' N 128° 14.8' E	Fl.R. period 6s	39 12	5	Red round concrete tower; 31.	
17012 <i>M 4321.45</i>	-Moksokto, entrance to bay.	34° 48.9' N 128° 12.1' E	Fl.R. period 4s	62 19	6	STARBOARD (B) R, tower, topmark; 33.	
17013 <i>M 4321.47</i>	Nammudo.	34° 46.5' N 128° 13.0' E	Q.W.	62 19	7	N. CARDINAL BY, tower, topmark; 56.	
17016 <i>M 4322.95</i>	Paek So.	34° 47.7' N 128° 17.0' E	Fl.(2)W. period 5s	52 16	8	ISOLATED DANGER BRB, tower, topmark; 36.	
17018	Mulgon Hang, N. breakwater.	34° 47.6' N 128° 03.7' E	Fl.R. period 5s	46 14	5	Red round concrete tower; 31.	
17018.5	-S. breakwater.	34° 47.6' N 128° 03.7' E	Fl.G. period 5s	43 13	5	White octagonal concrete tower; 27.	
17020 <i>M 4321.4</i>	Suu Do, island, W. side.	34° 49.7' N 128° 07.7' E	Fl.W. period 7s	56 17	8	White round concrete tower; 32.	Visible 328° -192° .
17024 <i>M 4322.2</i>	Mijo Nam Hang, W. breakwater.	34° 42.1' N 128° 02.9' E	Fl.G. period 4s	33 10	5	White round concrete tower; 25.	
17028 <i>M 4322.3</i>	-S. breakwater.	34° 42.2' N 128° 03.0' E	Fl.R. period 4s	36 11	6	Red octagonal concrete tower; 29.	
17032 <i>M 4322</i>	Mijo Man, breakwater.	34° 42.8' N 128° 02.9' E	Fl.G. period 5s	29 9	5	White round concrete tower; 20.	
17036 <i>M 4321.6</i>	Jijog.	34° 49.8' N 128° 00.2' E	Fl.R. period 5s	24 7	3	STARBOARD (B) R, beacon, topmark.	
17040 <i>M 4315</i>	Koki To.	34° 56.8' N 127° 58.0' E	Fl.W. period 5s	89 27	8	White round concrete tower; 98.	
17044 <i>M 4314</i>	Namhae Do, N. end of island.	34° 56.7' N 127° 53.6' E	Fl.(2)W. period 6s	36 11	8	White round tower; 25.	Visible 075° -282° .
17046 <i>M 4311.8</i>	Wado Island.	34° 56.2' N 127° 51.5' E	Fl.W. period 5s	62 19	8	White round concrete tower; 33.	Visible 326° -261° .
17047	Noryang.	34° 55.9' N 127° 51.4' E	Fl.R. period 5s	36 11	5	STARBOARD (B) R, beacon, topmark; 43.	
17048 <i>M 4311.6</i>	Wa Gi.	34° 55.0' N 127° 50.0' E	Fl.(2)G. period 6s	29 9	3	PORT (B) G, beacon, topmark.	
17050 <i>M 4311.65</i>	Hadong Hukki.	34° 56.5' N 127° 50.1' E	Fl.W. period 4s	33 10	8	White square steel tower; 24.	
17051 <i>M 4311.7</i>	-Seaberth A.	34° 56.4' N 127° 49.6' E	Fl.Y. period 4s	39 12	6	Yellow metal post; 16.	Horn: 1 bl. ev. 50s (bl. 5s, si. 45s).
17051.5 <i>M 4311.75</i>	--B.	34° 56.8' N 127° 49.6' E	Fl.Y. period 4s	39 12	6	Yellow metal post; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
17052 <i>M 4312</i>	Noryangjin.	34° 56.7' N 127° 51.6' E	Fl.W. period 6s	43 13	5	White square tower; 30.	Visible 253° -100° .
17053	Noryang sudo Bridge, N. span.	34° 56.5' N 127° 52.5' E	F.W.	77 23	7	White round daymark, red stripes.	F.R., F.G. and F.Y. mark bridge pilings.
17053.5	-S. span.	34° 56.4' N 127° 52.5' E	F.W.	77 23	7	White round daymark, red stripe.	F.R., F.G and F.Y. mark bridge pilings.
17056 <i>M 4311</i>	Umo So.	34° 53.2' N 127° 48.8' E	Fl.R. period 6s	33 10	6	STARBOARD (B) R, beacon, topmark; 30.	
17058.1 <i>M 4311.73</i>	Korea Electric Pier, seaberth.	34° 56.5' N 127° 49.3' E	Fl.(4)Y. period 8s	39 12	6	Yellow metal post; 13.	
17060 <i>M 4311.4</i>	Umsu Do.	34° 54.6' N 127° 49.5' E	Fl.R. period 5s	32 10	6	STARBOARD (B) R, beacon, topmark; 31.	
17063 <i>M 4308.15</i>	Jakdo.	34° 25.0' N 127° 54.2' E	Fl.W. period 10s	390 119	8	Square steel tower; 66.	
17064 <i>M 4308</i>	Sorido.	34° 24.7' N 127° 48.0' E	Fl.W. period 12s	269 82	26	White hexagonal concrete tower; 30.	Visible 231° -110° . Siren: 1 bl. ev. 54s (bl. 5s, si. 49s).
17066 <i>M 4308.05</i>	-W. side.	34° 25.6' N 127° 47.2' E	Fl.G. period 6s	36 11	3	PORT (B) G, beacon, topmark.	
17068 <i>M 4307.3</i>	Kumong-am.	34° 28.2' N 127° 46.1' E	Fl.W. period 5s	69 21	8	White octagonal concrete tower; 33.	
17069	Ando Hang, E. breakwater.	34° 28.5' N 127° 47.8' E	Fl.R. period 5s	43 13	5	Red round concrete tower; 26.	
17069.1	-W. breakwater.	34° 28.4' N 127° 47.8' E	Fl.G. period 5s	43 13	5	Green round concrete tower; 26.	
17069.5	Suri Do.	34° 27.6' N 127° 48.5' E	Q.W.	39 12	8	N. CARDINAL BY, beacon, topmark; 26.	
17072 <i>M 4307.5</i>	An Do, (Paekum).	34° 29.7' N 127° 49.7' E	Fl.W. period 6s	71 22	8	White octagonal tower; 29.	
17073	Yeosu, Geumodo.	34° 29.5' N 127° 45.8' E	Q.(9)W. period 15s	39 12	8	W. CARDINAL YBY, beacon, topmark; 36.	
17073.1 <i>M 4307.27</i>	-Wolpo.	34° 30.0' N 127° 45.1' E	Q.(9)W. period 15s	43 13	8	W. CARDINAL YBY, beacon, topmark; 46.	
17074 <i>M 4307.7</i>	Soyu.	34° 31.4' N 127° 46.6' E	Q.(3)W. period 10s	39 12	8	E. CARDINAL BYB, beacon, topmark; 43.	
17074.5	Huso.	34° 31.7' N 127° 47.1' E	Fl.(2)W. period 5s	49 15	8	ISOLATED DANGER BRB, beacon, topmark; 43.	
17075 <i>M 4307.8</i>	Sohoenggando.	34° 33.6' N 127° 46.1' E	Fl.W. period 6s	237 72	8	White octagonal concrete tower; 33.	
17080 <i>M 4308.2</i>	Ganyeo Am.	34° 17.3' N 127° 51.3' E	Fl.W. period 6s	98 30	8	White octagonal concrete tower; 59.	
	RACON		Y(- • - -)		11		
17084 <i>M 4308.3</i>	Sejondo.	34° 29.8' N 128° 05.2' E	Fl.W. period 12s	73 22	8	White round concrete tower; 39.	
17088 <i>M 4308.35</i>	Gudoj Seo.	34° 37.1' N 128° 07.2' E	Fl.W. period 6s	132 40	8	White round concrete tower; 46.	
17090	Mijo-gundo.	34° 40.8' N 128° 03.7' E	Fl.R. period 5s	66 20	5	STARBOARD (B) R, beacon, topmark; 49.	Visible 096° 30' -248° .
17092 <i>M 4308.9</i>	Baekseo.	34° 37.9' N 127° 59.6' E	Fl.W. period 6s	105 32	8	White octagonal concrete structure; 49.	
	RACON		Q(- - • -)		10		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
17096 <i>M 4308.94</i>	Kumsan.	34° 42.4' N 127° 59.0' E	Fl.(2)W. period 6s	203 62	3	White round concrete tower; 30.	Visible 298° -089° .
17100 <i>M 4308.8</i>	Dae Do.	34° 40.4' N 127° 57.0' E	Fl.W. period 10s	187 57	17	White round concrete structure; 24.	Visible 251° -168° .
17100.5 <i>M 4308.97</i>	Pam-som.	34° 36.5' N 127° 48.0' E	Q.(3)W. period 10s	49 15	8	E. CARDINAL BYB, beacon, topmark; 56.	
17101 <i>M 4308.98</i>	Taedan.	34° 39.7' N 127° 48.4' E	Fl.W. period 4s	108 33	8	White octagonal concrete tower; 43.	
17102	<i>Oechi-do.</i>	34° 41.7' N 127° 53.1' E	Fl.(2)W. period 5s			ISOLATED DANGER BRB, pillar, topmark.	
	RACON		N(- •)				
17104 <i>M 4309</i>	Yosu Hang.	34° 42.0' N 127° 47.4' E	Fl.W. period 5s	377 115	8	White octagonal concrete tower; 29.	Visible 176° -352° .
17108 <i>M 4309.4</i>	U Am.	34° 42.9' N 127° 48.0' E	Fl.(2)W. period 5s	43 13	8	ISOLATED DANGER BRB, beacon, topmark.	
17112 <i>M 4310.2</i>	P'yongsan.	34° 44.8' N 127° 50.4' E	Fl.W. period 5s	194 59	8	White round concrete structure; 27.	Visible 320° -166° .
17116 <i>M 4310</i>	Odong Do.	34° 44.5' N 127° 46.2' E	Fl.W. period 10s	200 61	25	White octagonal concrete tower; 82.	Horn: 1 bl. ev. 30s.
17120 <i>M 4309.8</i>	Yang Am.	34° 44.6' N 127° 46.8' E	Fl.(2)W. period 10s	39 12	8	ISOLATED DANGER BRB, tower, topmark; 30.	
17123 <i>M 4310.63</i>	Tunpyongtan.	34° 47.3' N 127° 46.0' E	Fl.(2)W. period 5s	49 15	8	ISOLATED DANGER BRB, beacon, topmark; 33.	
17124 <i>M 4310.6</i>	Sam Gi.	34° 47.7' N 127° 49.1' E	Fl.(2)W. period 5s	33 10	8	ISOLATED DANGER BRB, beacon, topmark.	
	RACON		K(- • -)		11		
17126 <i>M 4310.3</i>	Yosu Hang, N. breakwater.	34° 45.1' N 127° 45.7' E	Fl.R. period 4s	46 14	7	Red round concrete tower; 33.	
17128 <i>M 4310.4</i>	Yosu Hang, No. 2 breakwater, N. head.	34° 44.8' N 127° 45.2' E	Fl.G. period 5s	43 13	5	White round concrete structure; 33.	
17132 <i>M 4310.5</i>	-No. 2 Breakwater, S. head.	34° 44.6' N 127° 45.2' E	Fl.R. period 5s	43 13	6	Red round concrete structure; 33.	
17134	-Bridge, center span.	34° 43.6' N 127° 44.1' E	F.W.	66 20	7		F.R., F.G. and F.Y mark bridge pilings.
17135 <i>M 4310.52</i>	Chongpo, breakwater, head.	34° 44.2' N 127° 44.8' E	Fl.R. period 5s	46 14	5	Red round metal tower; 33.	
17136 <i>M 4310.57</i>	Changgundo.	34° 43.8' N 127° 44.2' E	Fl.(2)W. period 6s	36 11	8	White octagonal concrete tower; 33.	
17140 <i>M 4310.54</i>	Yosu Gu Hang.	34° 44.1' N 127° 44.1' E	Fl.G. period 4s	33 10	5	White round fiberglass structure; 24.	
17144 <i>M 4310.7</i>	Sangtan.	34° 51.4' N 127° 48.4' E	Fl.(2)W. period 6s	36 11	8	White round concrete tower; 23.	Visible 346° -204° .
17148 <i>M 4308.72</i>	-Ya Do.	34° 43.1' N 127° 42.9' E	Fl.R. period 4s	36 11	6	Round red tower; 24.	
17152 <i>M 4308.74</i>	-Ammog Do.	34° 42.4' N 127° 41.9' E	Fl.W. period 5s	79 24	8	White round concrete tower; 25.	
17153 <i>M 4307.25</i>	Tolsan-do Approaches.	34° 35.4' N 127° 42.9' E	Q.(9)W. period 15s	30 9	8	W. CARDINAL YBY, beacon, topmark; 46.	
17154	Hwataedo.	34° 34.6' N 127° 44.6' E	Fl.G. period 6s	36 11	5	PORT (B) G, tower, topmark; 36.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
17156 <i>M 4308.4</i>	Taehoenggan Do.	34° 34.7' N 127° 45.2' E	Q.(9)W. period 15s	33 10	5	W. CARDINAL YBY, beacon, topmark; 30.	
17160 <i>M 4308.5</i>	Kumsong.	34° 35.3' N 127° 45.4' E	Fl.R. period 6s	33 10	5	STARBOARD (B) R, tower, topmark; 33.	
17161 <i>M 4308.45</i>	Jakgeum Hang.	34° 35.5' N 127° 45.9' E	Fl.R. period 5s	49 15	5	Red round concrete tower; 33.	
17165 <i>M 4308.55</i>	Hajungdo.	34° 36.8' N 127° 42.8' E	Fl.R. period 4s	33 10	5	Red beacon; 33.	
17166 <i>M 4308.58</i>	Dolsan Hang, E. breakwater.	34° 36.8' N 127° 43.3' E	Fl.R. period 5s	33 10	5	Red round metal tower; 23.	
17170 <i>M 4310.72</i>	-Tanker terminal No. 1.	34° 51.5' N 127° 46.5' E	Fl.Y. period 4s	23 7	7	SPECIAL Y, tower, topmark; 13.	Horn: 1 bl. ev. 30s (bl. 5s, si. 25s).
17171 <i>M 4310.74</i>	--No. 2.	34° 51.7' N 127° 46.4' E	Fl.Y. period 4s	23 7	7	SPECIAL Y, tower, topmark; 13.	
17173 <i>M 4310.65</i>	Seaberth, S.	34° 50.5' N 127° 46.9' E	Fl.Y. period 4s	46 14	6	Yellow metal tower; 23.	
17173.5 <i>M 4310.66</i>	-N.	34° 50.9' N 127° 46.9' E	Fl.(4)Y. period 8s		8	Red metal pipe; 23.	Horn: 1 bl. ev. 25s (bl. 5s, si. 20s).
17174 <i>M 4310.86</i>	Myodo Sudo, fog signal.	34° 51.8' N 127° 44.1' E				Dolphin.	Horn: 1 bl. ev. 20s (bl. 5s, si. 15s).
17174.5 <i>M 4310.88</i>	-Honamjongyu, fog signal.	34° 51.8' N 127° 43.6' E					Horn: 1 bl. ev. 20s (bl. 5s, si. 15s).
17188 <i>M 4310.9</i>	-Myodo Sudo (Honam Hwaryok) Range, front.	34° 51.2' N 127° 44.2' E	F.R.	79 24	10	White metal framework tower; 66.	Visible 176° -184° .
17192 <i>M 4310.91</i>	--Rear, 160 meters 180° from front.	34° 51.1' N 127° 44.2' E	F.R.	98 30	10	White metal framework tower; 85.	Visible 176° -184° .
17196 <i>M 4310.94</i>	-Honam Hwaryok Range, front.	34° 51.2' N 127° 44.0' E	F.R.	92 28	10	White round metal tower; 79.	Visible 197° -205° .
17200 <i>M 4310.95</i>	--Rear, 115 meters 201° from front.	34° 51.2' N 127° 44.0' E	F.R.	102 31	10	White metal framework tower; 89.	Visible 197° -205° .
17200.2 <i>M 4310.96</i>	Kwangyang, A.	34° 51.7' N 127° 42.4' E	Fl.Y. period 4s	26 8	7	Yellow metal post; 13.	Horn: 1 bl. ev. 25s (bl. 5s, si. 20s).
	RACON		K(- • -)		10		
17200.5 <i>M 4310.97</i>	-B.	34° 51.7' N 127° 42.3' E	Fl.Y. period 4s	26 8	7	Yellow metal post; 13.	
17200.8 <i>M 4310.82</i>	Kwangyang Passage III.	34° 52.9' N 127° 45.6' E	Fl.(2)W. period 5s	59 18	10	ISOLATED DANGER BRB, beacon, topmark; 79.	
	RACON		Z(- - • •)		10		
17205	Kwangyang Hang Bridge.	34° 57.6' N 127° 45.2' E	F.W.	56 17	7	Red round daymark, white stripes.	F.R. 17m 5M and F.G. 17m 4M mark width of navigable span. F.Y. 17m 6M mark bridge pilings.
17205.1	Somjindaegyo Bridge.	34° 57.2' N 127° 46.3' E	F.W.	33 10	7	Red round daymark, white stripes.	F.R. 10m 7M and F.G. 10m 4M mark width of navigable span. F.Y. 10m 6M mark bridge pilings.
17211 <i>M 4308.75</i>	Mamuram.	34° 43.0' N 127° 41.0' E	Fl.(2)W. period 5s	43 13	8	ISOLATED DANGER BRB, beacon, topmark; 43.	
17212 <i>M 4308.6</i>	Yo Ch'o.	34° 41.3' N 127° 42.0' E	Q.(9)W. period 15s	31 10	8	W. CARDINAL YBY, beacon, topmark; 28.	
17215	Horido.	34° 35.0' N 127° 40.7' E	Q.W.	40 12	8	N. CARDINAL BY, beacon, topmark; 26.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
17216 M 4306	Paegya Do, E. end of island.	34° 36.6' N 127° 39.3' E	Fl.W. period 20s	164	21 50	White round concrete structure; 46.	Visible 157° -070° . Horn: 1 bl. ev. 40s.
17218 M 4305.5	Yoja Man.	34° 47.0' N 127° 31.5' E	Fl.(2)W. period 5s	46	8 14	ISOLATED DANGER BRB, beacon, topmark; 43.	
17218.1 M 4305.45	Soyoja-do.	34° 45.0' N 127° 31.0' E	Fl.W. period 6s	49	8 15	White round concrete tower; 26.	
17218.2 M 4305.43	Chuk-to.	34° 45.0' N 127° 26.9' E	Fl.(2)W. period 5s	36	8 11	ISOLATED DANGER BRB, beacon, topmark; 36.	
17219 M 4305.4	Chokkum-do.	34° 37.6' N 127° 31.5' E	Fl.W. period 6s	62	8 19	White octagonal concrete tower; 36.	
17219.1 M 4305.36	Jobal Sudo.	34° 37.2' N 127° 31.6' E	Q.(6)+L.Fl.W. period 15s	26	8 8	S. CARDINAL YB, beacon, topmark; 46.	
17220 M 4305	Nang Do.	34° 35.5' N 127° 33.1' E	Fl.W. period 5s	69	8 21	White octagonal concrete tower; 30.	Visible 233° -097° .
17221 M 4305.2	Nangdo Hang, entrance.	34° 36.0' N 127° 31.9' E	Fl.R. period 4s	59	5 18	Red octagonal concrete tower; 43.	
17221.1 M 4305.3	-Inner breakwater, N. end.	34° 36.3' N 127° 32.1' E	Fl.Y. period 6s	39	7 12	Yellow round metal tower; 26.	
17221.2 M 4305.25	--S. end.	34° 36.1' N 127° 32.0' E	Fl.G. period 4s	36	5 11	White round concrete tower; 23.	
17222 M 4305.6	Changgu Do.	34° 35.6' N 127° 36.3' E	Fl.R. period 4s	43	5 13	STARBOARD (B) R, beacon, topmark; 49.	
17224 M 4307	Koso.	34° 32.5' N 127° 39.0' E	Fl.W. period 6s	110	8 34	White octagonal concrete tower; 30.	
17226	Yongdu-san.	34° 32.3' N 127° 41.7' E	Fl.W. period 6s	49	8 15	White round concrete tower; 36.	Visible 325° -247° .
17227 M 4299.72	Chijuk-to.	34° 26.5' N 127° 19.0' E	Q.(6)W.+L.Fl.W. period 15s	52	8 16	S. CARDINAL YB, beacon, topmark; 69.	
17228 M 4297	Sisan Do.	34° 22.5' N 127° 16.6' E	Fl.W. period 12s	121	8 37	White round concrete tower; 20.	
17229.2	Shisando, W. breakwater.	34° 23.8' N 127° 15.8' E	Fl.(3)G. period 7s	36	5 11	White octagonal concrete tower; 27.	
17229.4 M 4297.3	-S. breakwater.	34° 23.8' N 127° 16.0' E	Fl.G. period 4s	52	5 16	White octagonal concrete tower; 33.	
17229.5	-E. breakwater.	34° 23.5' N 127° 16.0' E	Fl.R. period 5s	36	5 11	Red octagonal concrete tower; 27.	
17230 M 4297.4	-N. end of island.	34° 24.7' N 127° 14.7' E	Fl.W. period 6s	177	8 54	White round concrete tower; 25.	Visible 351° -286° .
17230.2 M 4298.55	Gamdeungseo.	34° 30.3' N 127° 14.3' E	Fl.(2)W. period 5s	46	8 14	ISOLATED DANGER BRB, beacon, topmark; 33.	
17230.5 M 4298.6	Pungnam, W. breakwater.	34° 30.9' N 127° 15.0' E	Fl.G. period 5s	56	5 17	White octagonal concrete tower; 43.	
17230.51 M 4298.65	--W. breakwater.	34° 31.0' N 127° 15.0' E	Fl.R. period 5s	36	5 11	Red round steel tower; 23.	
17230.52 M 4298.66	--N. breakwater.	34° 31.1' N 127° 15.0' E	Fl.R. period 4s	36	7 11	Red round steel tower; 23.	
17231	-Chuiuyo.	34° 27.0' N 127° 33.9' E	Fl.(2)W. period 5s	56	8 17	ISOLATED DANGER BRB, beacon, topmark; 30.	
17231.1 M 4302.5	Taengmunam.	34° 26.3' N 127° 35.0' E	Fl.(2)W. period 10s	62	8 19	ISOLATED DANGER BRB, beacon, topmark; 69.	
17232 M 4300.4	Sonjukdo.	34° 17.7' N 127° 21.1' E	Fl.W. period 15s	49	8 15	White round concrete tower; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
17233 <i>M 4296.8</i>	Podunaji.	34° 18.8' N 127° 14.4' E	Fl.(2)W. period 6s	262 80	8	White round concrete tower; 33.	
17234	Cho Do, N. breakwater.	34° 14.4' N 127° 14.4' E	Fl.G. period 5s	59 18	5	White octagonal concrete tower; 42.	
17234.1 <i>M 4295.4</i>	-S. breakwater.	34° 14.4' N 127° 14.5' E	Fl.R. period 5s	36 11	5	Red round metal tower; 33.	
17236 <i>M 4295</i>	Cho Do.	34° 12.6' N 127° 15.9' E	Fl.W. period 6s	184 56	8	White round tower; 24.	
17236.1 <i>M 4295.2</i>	-E.	34° 13.8' N 127° 16.3' E	Q.(3)W. period 10s	43 13	8	E. CARDINAL BYB, beacon, topmark; 36.	
17240 <i>M 4294.5</i>	Yokman-do.	34° 11.0' N 127° 21.0' E	Fl.W. period 9s	69 21	8	White round concrete tower; 19.	
17243 <i>M 4293.5</i>	Sosambudo.	34° 02.6' N 127° 21.7' E	Fl.W. period 6s	131 40	8	White octagonal concrete tower; 43.	
17244 <i>M 4286</i>	Geomun Do.	34° 00.4' N 127° 19.4' E	Fl.W. period 15s	302 92	23	White hexagonal concrete tower; 108.	Visible 197° -109° . Every other flash intensified. Horn: 1 bl. ev. 50s (bl. 5s, si. 45s). DGPS Station.
17246 <i>M 4293</i>	Pan-yo.	34° 04.4' N 127° 18.7' E	Fl.(2)W. period 5s	49 15	8	ISOLATED DANGER BRB, beacon, topmark; 49.	
17248 <i>M 4292</i>	Nogsan Got.	34° 03.8' N 127° 17.6' E	Fl.W. period 6s	312 95	11	White concrete column; 30.	Visible 075° -266° .
17249	Komundo Hang Bridge, center span.	34° 01.4' N 127° 18.5' E	F.W.	36 11	7	White round daymark, red stripe.	F.R. 7m 5M and F.G. 7m 4M mark limits of navigable span.
17250 <i>M 4290.2</i>	Komondo Hang, W. breakwater.	34° 01.5' N 127° 18.6' E	Fl.G. period 5s	33 10	5	White concrete column, 23.	
17251 <i>M 4286.5</i>	-E. breakwater.	34° 01.6' N 127° 18.8' E	Fl.G. period 4s	72 22	5	White octagonal concrete tower; 30.	
17252 <i>M 4287</i>	-S. breakwater.	34° 01.8' N 127° 18.7' E	Fl.R. period 4s	43 13	5	Red octagonal concrete tower; 29.	
17260 <i>M 4294</i>	Habaeg Do.	34° 03.4' N 127° 35.0' E	Fl.W. period 6s	525 160	11	White square concrete tower; 25.	
	RACON		G(- - •)		10		
17260.5 <i>M 4294.3</i>	Munseo.	34° 08.4' N 127° 33.7' E	Fl.W. period 4s	108 33	8	White octagonal concrete tower; 59.	
17261	Muhakto.	34° 19.3' N 127° 19.2' E	Fl.W. period 6s	36 11	8	White round concrete tower; 23.	Visible 304° -048° .
17262	Chimudo.	34° 19.8' N 127° 22.7' E	Fl.(2)W. period 6s	78 24	8	White round concrete tower; 56.	Visible 076° -279° .
17264 <i>M 4300.6</i>	Daeduyeog Seo.	34° 14.3' N 127° 32.2' E	Fl.W. period 5s	112 34	17	White round concrete tower; 20.	
17268 <i>M 4302</i>	Tanggeon Yeo.	34° 22.0' N 127° 30.6' E	Fl.W. period 10s	171 52	11	White octagonal tower; 33.	
	RACON		T(-)		10		
17272 <i>M 4304</i>	Naenaro Do.	34° 29.3' N 127° 30.4' E	Fl.W. period 5s	328 100	10	White round concrete structure; 18.	Visible 157° -333° .
17272.5 <i>M 4298.5</i>	Gyedo.	34° 29.5' N 127° 14.1' E	Fl.W. period 4s	46 14	8	White hexagonal concrete tower; 39.	
17273 <i>M 4299.75</i>	Naebal Hang.	34° 28.9' N 127° 20.7' E	Fl.G. period 5s	36 11	5	White octagonal concrete tower; 26.	
17274 <i>M 4299.8</i>	Balpo, breakwater.	34° 28.7' N 127° 20.7' E	Fl.R. period 5s	39 12	5	Red round metal tower; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
17280 <i>M 4300</i>	Sayang Do.	34° 28.0' N 127° 26.6' E	Fl.W. period 5s	210 64	8	White round concrete structure; 34.	Visible 237° -088° .
17280.4 <i>M 4300.2</i>	Naro Yolto Bridge, S. span.	34° 28.7' N 127° 27.5' E	F.W.	85 26	7	White circular daymark, red stripes.	F.G. 22m 5M and F.R. 22m 5M mark width of navigable span. F.Y. 6M mark piers. Passing prohibited. Horn: 1 bl. ev. 20s (bl. 5s, si. 15s).
17280.5 <i>M 4300.35</i>	-W. span.	34° 31.2' N 127° 26.0' E	F.W.	75 23	7	White circular daymark, red stripes.	F.R. 23m 5M and F.G. 23m 5M mark width of navigable span. F.Y. 6M mark piers. Passing prohibited.
17282 <i>M 4300.3</i>	Samam.	34° 29.2' N 127° 26.5' E	Q.(9)W. period 15s	43 13	8	W. CARDINAL YBY, beacon, topmark; 39.	
17283	Naroyolto, bridge.	34° 30.9' N 127° 26.1' E	F.G.	39 12	4		
17284 <i>M 4301</i>	Oenaro Do, NW. side, W. breakwater.	34° 27.3' N 127° 27.1' E	Fl.G. period 6s	62 19	5	White square steel tower; 8.	
17290 <i>M 4295.5</i>	Hwangjedo.	34° 11.4' N 127° 04.9' E	Fl.W. period 5s	171 52	18	White round concrete tower; 33.	Visible 152° -002° .
17291 <i>M 4295.7</i>	-W. end of island.	34° 11.2' N 127° 04.4' E	Fl.(2)W. period 6s	92 28	8	White hexagonal metal tower; 28.	Visible 334° -208° .
17291.3	Satong Hang, S. breakwater.	34° 19.8' N 127° 04.9' E	Fl.(2)R. period 6s	39 12	5	Red octagonal tower; 26.	
17291.35	-N. breakwater.	34° 19.9' N 127° 04.9' E	Fl.G. period 6s	39 12	5	White octagonal tower; 26.	
17292 <i>M 4296</i>	Sopto.	34° 18.0' N 127° 07.9' E	Fl.W. period 10s fl. 0.5s, ec. 9.5s	187 57	11	White octagonal concrete tower; 30.	Obscured 097° -197° .
	RACON		C(- • - •)		10		
17292.5	Taebuyong Pungdo.	34° 16.8' N 127° 09.6' E	Fl.W. period 6s	46 14	8	White round concrete tower; 31.	
17293	Sadong Hang, W. breakwater.	34° 19.9' N 127° 04.9' E	Fl.R. period 4s	46 14	5	Red round concrete tower; 28.	
17294 <i>M 4297.8</i>	Sorokdo.	34° 30.4' N 127° 05.7' E	Q.(9)W. period 15s			W. CARDINAL YBY, beacon, topmark; 56.	
17295 <i>M 4298.9</i>	Sapyogido.	34° 31.5' N 127° 06.7' E	Q.W.	39 12	12	N. CARDINAL BY, beacon, topmark; 36.	
17298 <i>M 4299.2</i>	Nokdong Hang, N. breakwater.	34° 31.5' N 127° 07.5' E	Fl.(2)G. period 6s	39 12	5	White octagonal concrete tower; 27.	
17298.1 <i>M 4299.3</i>	-Nokdong Sorokdo Bridge.	34° 31.6' N 127° 07.4' E	F.W.	75 23	7	White circular daymark, red stripe.	F.R. 23m 4M and F.G. 23m 5M mark width of navigable span.
17298.5 <i>M 4299.6</i>	-S. breakwater.	34° 31.1' N 127° 08.3' E	Fl.G. period 5s	36 11	5	White octagonal concrete tower; 27.	
17299 <i>M 4299.4</i>	-N. detached breakwater, head.	34° 31.6' N 127° 07.3' E	Fl.(2)R. period 6s	36 11	5	Red octagonal concrete tower; 26.	
17299.1 <i>M 4299.61</i>	-SE. breakwater, head.	34° 31.0' N 127° 09.1' E	Fl.R. period 4s	56 17	6	Red round concrete tower; 39.	
17300 <i>M 4299</i>	-E. breakwater, head.	34° 31.4' N 127° 08.1' E	Fl.R. period 5s	36 11	6	Red round concrete tower; 26.	
17300.5 <i>M 4299.68</i>	Tungnyang Man, Sinhung.	34° 35.8' N 127° 08.5' E	Fl.(2)W. period 10s	43 13	7	ISOLATED DANGER BRB, beacon, topmark; 49.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
17300.8 <i>M 4297.65</i>	Yeonheungdo.	34° 28.1' N 127° 05.2' E	Q.W.	39	11	N. CARDINAL BY, beacon, topmark; 33.	
17301 <i>M 4281.7</i>	Kumdang Do.	34° 27.1' N 127° 01.6' E	Fl.W. period 6s	164	8	White round concrete tower; 32.	Visible 035° -252° .
17301.5 <i>M 4279.6</i>	Odongdo.	34° 26.5' N 127° 05.6' E	Fl.W. period 5s	128	8	White octagonal concrete tower; 46.	Visible 117° -156° , 299° -013° .
17301.55 <i>M 4297.55</i>	Geumdangdo.	34° 25.6' N 127° 04.6' E	Fl.G. period 4s	36	8	Green square daymark on green beacon; 52.	
17301.6 <i>M 4297.5</i>	Geogeumdo, Monyeodo.	34° 25.9' N 127° 13.1' E	Fl.(2)W. period 5s	59	8	ISOLATED DANGER BRB, beacon, topmark; 63.	
17302 <i>M 4281.6</i>	Kongdaejisan.	34° 21.9' N 126° 57.0' E	Fl.W. period 6s	92	8	White round concrete tower; 36.	Visible 230° -066° .
17302.1 <i>M 4281.58</i>	Hyeoldo.	34° 20.4' N 126° 54.8' E	Fl.W. period 4s	46	8	White round concrete tower; 30.	Obscured 010° -090° .
17302.5 <i>M 4281.55</i>	Saengildo, E.	34° 19.2' N 127° 01.1' E	Fl.W. period 6s	141	8	White round concrete tower; 30.	
17303 <i>M 4281.65</i>	Tooduji.	34° 24.7' N 126° 57.4' E	Fl.W. period 4s	115	8	White round concrete tower; 32.	Visible 073° -350° .
17304 <i>M 4281</i>	Shinchi Do.	34° 19.1' N 126° 47.6' E	Fl.W. period 4s	121	8	White round concrete structure; 20.	
17304.5	Molso.	34° 18.9' N 126° 46.4' E	Fl.G. period 6s	36	5	PORT (B) G, beacon, topmark; 39.	Visible 095° -348° .
17305 <i>M 4280.8</i>	Wando Hang, breakwater.	34° 19.3' N 126° 45.3' E	Fl.(2)R. period 6s	62	5	Red square concrete tower; 49.	
17305.1 <i>M 4280.75</i>	Wandosinjido Bridge.	34° 20.1' N 126° 44.9' E	F.W.	135	7	White circular daymark, red stripes.	F.R. 41m 5M and F.G. 41m 5M mark width of navigable span. F.Y. 32m 6M mark piers.
17306 <i>M 4281.8</i>	Kkamaksom.	34° 26.6' N 126° 48.9' E	Q.(6)+L.Fl.W. period 15s	36	8	S. CARDINAL YB, beacon, topmark; 36.	
17307 <i>M 4281.9</i>	Maryang Hang, E. breakwater.	34° 26.7' N 126° 49.5' E	Fl.R. period 4s	36	5	Red round concrete tower; 28.	
17307.5	-Center breakwater.	34° 26.7' N 126° 49.5' E	Fl.G. period 4s	36	5	White round concrete tower; 28.	
17308 <i>M 4281.4</i>	Sodogu Do.	34° 17.0' N 127° 00.0' E	Fl.W. period 6s	105	8	White round concrete tower; 16.	
17309	Togudo.	34° 15.1' N 127° 00.7' E	Fl.W. period 5s	75	8	White octagonal concrete tower; 26.	
17310	Toryongnangdo.	34° 18.2' N 127° 00.2' E	Fl.W. period 4s	66	8	White octagonal concrete tower; 27.	Visible 235° -080° .
17312 <i>M 4281.2</i>	Mohwang Do.	34° 16.9' N 126° 54.0' E	Fl.(2)W. period 6s	164	8	White round concrete tower; 16.	
17316 <i>M 4284</i>	Yoso Do.	33° 59.1' N 126° 55.3' E	Fl.W. period 10s	292	18	White round concrete structure; 26.	Visible 046° -267° .
17316.5	-W. breakwater.	33° 59.3' N 126° 55.3' E	Fl.R. period 5s	43	5	Red octagonal concrete tower; 26.	
17320 <i>M 4279.4</i>	Hoenggan Do.	34° 15.0' N 126° 37.0' E	Fl.W. period 4s	121	8	White round concrete tower; 16.	
17320.5 <i>M 4278.16</i>	Yongjon Hang, E. breakwater.	34° 20.1' N 126° 36.2' E	Fl.R. period 6s	30	5	Red hexagonal steel tower; 19.	
17321	Haeman Pando.	34° 20.3' N 126° 36.3' E	Fl.Y. period 6s	26	7	SPECIAL Y, beacon; 19.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
17321.5	Tal to bridge, center span.	34° 24.1' N 126° 37.6' E	F.W.	16 5	7	White round daymark, red stripes.	F.R. 5m 5M and F.G. 5m 4M mark limits of navigable span.
17322 M 4279.45	Yongjoncho.	34° 14.3' N 126° 39.3' E	Fl.(2)W. period 10s	46 14	8	ISOLATED DANGER BRB, beacon, topmark; 56.	
17324 M 4279.5	Kaksi So.	34° 12.8' N 126° 38.8' E	Fl.(2)W. period 5s	30 9	8	ISOLATED DANGER BRB, beacon, topmark; 27.	
17325 M 4279.6	Daeseo.	34° 12.1' N 126° 38.7' E	Fl.R. period 5s	39 12	6	STARBOARD (B) R, beacon, topmark; 36.	
17326 M 4279.7	Sokto.	34° 10.3' N 126° 37.7' E	Q.(3)W. period 10s	33 10	8	E. CARDINAL BYB, beacon, topmark; 36.	
17327	Soan Hang, W. breakwater.	34° 09.0' N 126° 38.0' E	Fl.R. period 5s	46 14	5	Red octagonal concrete tower; 28.	
17327.1	-N. breakwater.	34° 09.1' N 126° 38.0' E	Fl.G. period 5s	43 13	5	Green octagonal concrete tower; 28.	
17328 M 4280.5	Meeruum.	34° 16.2' N 126° 45.4' E	Fl.(2)W. period 5s	39 12	8	ISOLATED DANGER BRB, beacon, topmark; 43.	
17332 M 4280	Somo Do, NW. extremity of island.	34° 13.5' N 126° 46.2' E	Fl.W. period 4s	216 66	8	White round concrete structure; 18.	Visible 031° -276° .
17336 M 4283.4	Ch'ongsando, S. breakwater.	34° 10.9' N 126° 51.0' E	Fl.R. period 6s	36 11	5	Red round concrete tower; 26.	
17338 M 4283.6	-N. breakwater.	34° 10.7' N 126° 51.3' E	Fl.G. period 6s	49 15	5	White round concrete tower; 30.	Visible 039° -141° .
17340 M 4282	Jagae Do.	34° 06.0' N 126° 36.0' E	Fl.W. period 20s	312 95	19	White round concrete structure; 27.	Visible 197° -107° . Siren: 1 bl. ev. 48s. Sounds in answer to vessel's signals. Signal station.
17341	Churuncho.	34° 04.4' N 126° 31.1' E	Fl.(2)W. period 10s	66 20	8	ISOLATED DANGER BRB, beacon, topmark; 78.	
	RACON		C(- • - •)		10		(3 & 10 cm).
17344 M 4277.8	Heonggan Do.	34° 00.7' N 126° 19.6' E	Fl.W. period 10s	82 25	18	White round concrete tower; 32.	
17348 M 4276	Chuja Kundo, on Sangchua Do.	33° 57.4' N 126° 18.3' E	Fl.G. period 5s	46 14	5	PORT (B) G, tower, topmark; 39.	
17352 M 4277	-Chuja Hang, breakwater, head.	33° 57.7' N 126° 18.1' E	Fl.R. period 4s	52 16	9	Red round concrete tower; 36.	
17356 M 4277.5	Sangchujado.	33° 57.3' N 126° 17.8' E	Fl.W. period 20s	479 146	26	White round concrete tower; 66.	Visible 135° -277° , 292° -113° . Horn: 1 bl. ev. 40s (bl. 5s, si. 35s).
17360 M 4275	Chuja Do Kamegyeo.	33° 57.4' N 126° 19.9' E	Q.W.	49 15	8	N. CARDINAL BY, tower, topmark; 33.	
17364 M 4277.9	Mang Do.	33° 59.5' N 126° 23.6' E	Fl.(2)W. period 9s	246 75	8	White round concrete tower; 28.	
17366	-Breakwater, head.	33° 56.2' N 126° 19.9' E	Fl.R. period 5s	52 16	5	Red round concrete tower; 33.	
17366.5 M 4274.85	-S. breakwater.	33° 56.2' N 126° 19.8' E	Fl.G. period 6s	46 14	5	White round concrete tower; 33.	
17368 M 4274.7	Bang Seo.	33° 55.3' N 126° 23.9' E	Fl.W. period 6s	82 25	8	White round concrete tower; 36.	
17372 M 4274.65	Hwa Do.	33° 43.9' N 126° 21.6' E	Fl.W. period 5s	302 92	17	White square concrete tower; 23.	
	RACON		K(- • -)		10		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
17374 <i>M 4265.65</i>	Sebaeyeo.	33° 30.3' N 126° 27.1' E	Q.W.	46 14	8	N. CARDINAL BY, tower, topmark; 52.	
17376 <i>M 4266</i>	Sanchi.	33° 31.3' N 126° 32.7' E	Fl.W. period 15s	236 72	26	White round concrete tower; 59.	Visible 071° -252° . Storm signals. Horn: 1 bl. ev. 50s. Radiobeacon 755 meters SSW.
17380 <i>M 4266.5</i>	-Jeju Hang, breakwater, head.	33° 32.0' N 126° 32.5' E	Fl.R. period 5s	69 21	8	Red round concrete tower; 52.	
	-RACON		C(- • - •)		10		
17381 <i>M 4267</i>	--Inner W. breakwater, head.	33° 31.2' N 126° 32.3' E	Fl.(2)R. period 6s	36 11	5	Red round steel column; 26.	
17382 <i>M 4267.5</i>	--Outer port, E. breakwater, head.	33° 31.8' N 126° 32.5' E	Fl.G. period 5s	46 14	9	White round concrete tower; 59.	
17391 <i>M 4265.9</i>	Daegot, E.	33° 31.1' N 126° 30.1' E	Fl.R. period 4s	36 11	5	Red round metal tower; 26.	
17392	-AVIATION LIGHT.	33° 30.9' N 126° 29.3' E	Al.Fl.W.G. period 5s	148 45			
17392.9 <i>M 4265.6</i>	Iho Hang.	33° 30.3' N 126° 27.6' E	Fl.R. period 4s	43 13	5	Red round metal tower; 30.	
			F.W.	30 9		Floodlit.	Illuminates Iho Hang beacon in direction 157° .
17393 <i>M 4265.7</i>	-Dudo Hang, N. breakwater.	33° 30.5' N 126° 27.9' E	Fl.G. period 6s	50 15	8	White round concrete tower; 33.	
17393.5 <i>M 4265.8</i>	-S. breakwater.	33° 30.4' N 126° 28.0' E	Fl.R. period 6s	62 19	9	Red octagonal concrete tower; 39.	
17396 <i>M 4269</i>	-Hwabuk Hong, W. breakwater, head.	33° 31.3' N 126° 33.9' E	Fl.R. period 5s	39 12	6	Red round concrete structure; 20.	
17396.3 <i>M 4269.25</i>	Samyang, No. 1 breakwater.	33° 32.0' N 126° 35.2' E	Fl.R. period 4s	46 14	5	Red round pipe; 26.	
17396.4 <i>M 4269.26</i>	-No 3.	33° 31.7' N 126° 34.7' E	Fl.R. period 4s	43 13	5	Red round pipe; 26.	
17396.5 <i>M 4269.1</i>	Korean Electric A.	33° 31.9' N 126° 35.7' E	Fl.(2)Y. period 6s	46 14	6	SPECIAL Y, tower.	Beacon B Fl.(2)Y. 6s 14m 6M close W.
17396.8 <i>M 4269.28</i>	Sinchon Hang, E. breakwater.	33° 32.3' N 126° 37.0' E	Fl.G. period 5s	36 11	5	White round metal tower; 26.	
17396.9 <i>M 4269.29</i>	-Chochoon Hang, breakwater.	33° 32.5' N 126° 38.0' E	Fl.(2)G. period 6s	33 10	5	White round metal tower; 26.	
17396.91 <i>M 4269.35</i>	Hamdeok Hang, E. breakwater.	33° 32.9' N 126° 39.7' E	Fl.G. period 4s	39 12	6	White round metal tower; 26.	Reserve light F.W.
17397 <i>M 4269.3</i>	Shinhangkwaggoch.	33° 33.1' N 126° 38.8' E	Fl.W. period 6s	42 13	8	White octagonal concrete tower; 33.	
17398 <i>M 4283.8</i>	Sasudo.	33° 55.3' N 126° 38.4' E	Fl.W. period 6s	276 84	11	White octagonal concrete tower; 36.	
	RACON		G(- - •)		10		
17400 <i>M 4269.5</i>	-Talso.	33° 33.5' N 126° 41.8' E	Fl.(2)W. period 6s	46 14	8	White octagonal tower; 33.	
17401 <i>M 4269.4</i>	-W. breakwater.	33° 33.0' N 126° 41.7' E	Fl.R. period 5s	33 10	5	Red round steel tower; 26.	
17401.5 <i>M 4269.6</i>	Dongbok Hang, breakwater.	33° 33.3' N 126° 42.9' E	Fl.(2)R. period 6s	43 13	5	Red round metal tower; 30.	
17402	-Kimnyong Hang, W. breakwater.	33° 33.5' N 126° 44.6' E	Fl.R. period 6s	59 18	5		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
17402.1 <i>M 4269.9</i>	--E. breakwater.	33° 33.6' N 126° 44.4' E	Fl.G. period 6s	52 16	5	White round concrete tower; 36.	
17404 <i>M 4270</i>	-Haengwon-Ri, W. breakwater, head.	33° 33.4' N 126° 48.4' E	Fl.R. period 4s	39 12	6	Red round concrete tower; 23.	
17407 <i>M 4270.1</i>	-Pyeongdae Hang, E. breakwater.	33° 32.2' N 126° 50.5' E	Fl.R. period 5s	36 11	5	Red round metal tower; 26.	
17407.5 <i>M 4270.15</i>	Sehwa Hang.	33° 31.8' N 126° 51.5' E	Fl.(2)R. period 6s	43 13	6	Red round metal tower; 30.	
17408 <i>M 4270.2</i>	-E. breakwater, head.	33° 31.8' N 126° 51.5' E	Fl.G. period 4s	56 17	5	White round concrete tower; 39.	
17412 <i>M 4271</i>	Pandatan.	33° 31.3' N 126° 54.6' E	Fl.R. period 6s	43 13	5	Red octagonal tower; 33.	
17414	U do, Tuksaenggot.	33° 31.3' N 126° 57.3' E	Fl.(2)W. period 6s	52 16	8	White octagonal concrete tower; 43.	
17416 <i>M 4272.2</i>	-U Do.	33° 30.9' N 126° 58.4' E	Q.(3)W. period 10s	46 14	8	E. CARDINAL BYB, beacon, topmark; 43.	
17420 <i>M 4272</i>	-U Do.	33° 29.6' N 126° 58.0' E	Fl.W. period 20s	459 140	27	White round brick tower; 54.	Visible 042° -019° . Horn: 2 bl. ev. 52s.
17424 <i>M 4272.3</i>	-E. breakwater.	33° 28.7' N 126° 56.2' E	Fl.G. period 4s	56 17	8	White round concrete tower; 49.	
17425	-S. breakwater.	33° 29.3' N 126° 57.1' E	Fl.R. period 6s	51 16	5	Red round concrete tower; 36.	
17429	Songsanpo.	33° 29.3' N 126° 55.5' E	Fl.(2)R. period 6s	49 15	6	STARBOARD (B) R, beacon, topmark; 65.	
17432 <i>M 4272.42</i>	---W. breakwater.	33° 28.5' N 126° 55.7' E	Fl.R. period 5s	39 12	5	Red round concrete tower; 36.	
17434 <i>M 4272.35</i>	---N. breakwater, E. head.	33° 28.4' N 126° 56.2' E	Fl.(2)R. period 6s	52 16	5	Red round concrete tower; 49.	
17435 <i>M 4272.36</i>	----W. head.	33° 28.4' N 126° 55.9' E	Fl.(2)G. period 6s	52 16	5	White round concrete tower; 49.	
17436 <i>M 4272.5</i>	-Pangdupo.	33° 25.5' N 126° 56.2' E	Fl.W. period 4s	131 40	8	White octagonal concrete tower; 39.	
17437	Sinyang hang.	33° 25.7' N 126° 55.2' E	Fl.G. period 6s	39 12	5	White round steel tower; 26.	
17438 <i>M 4272.52</i>	Onpyeong.	33° 24.2' N 126° 54.3' E	Fl.G. period 4s	36 11	5	White round structure; 30.	
17440 <i>M 4272.54</i>	-On Pyeong.	33° 23.5' N 126° 54.8' E	Q.(3)W. period 10s	46 14	8	E. CARDINAL BYB, tower, topmark; 43.	
17441 <i>M 4272.55</i>	Sincheon Hang, breakwater.	33° 20.4' N 126° 51.5' E	Fl.G. period 6s	46 14	5	White round metal tower; 33.	
			F.W.				Seen above beacon.
17444 <i>M 4272.6</i>	-Kaeminpo.	33° 19.0' N 126° 51.0' E	Fl.W. period 5s	46 14	8	White octagonal concrete tower; 22.	
17448 <i>M 4272.57</i>	-Pyoseon Hang.	33° 19.5' N 126° 50.9' E	Fl.G. period 4s	39 12	5	White round concrete tower; 30.	
17452 <i>M 4272.7</i>	-Kaeminpo, Got (Kama).	33° 17.9' N 126° 48.6' E	Fl.W. period 9s	51 16	8	White square metal framework tower; 21.	
17452.5 <i>M 4272.71</i>	Sinheung Hang.	33° 17.9' N 126° 46.1' E	Fl.(2)G. period 6s	39 12	5	White round structure; 30.	
17453 <i>M 4272.73</i>	Taeheung Hang.	33° 17.1' N 126° 45.1' E	Fl.G. period 6s	43 13	5	White round metal tower; 26.	

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SOUTH KOREA							
17454 M 4272.75	-Taebonggot.	33° 16.4' N 126° 44.7' E	Fl.W. period 6s	43	8	White concrete tower; 39.	
17454.5 M 4272.78	Bang-iyeo.	33° 16.4' N 126° 43.2' E	Q.(6)+L.Fl.W. period 15s	56	8	S. CARDINAL YB, beacon, topmark; 72.	
17455 M 4272.9	-Wimi Hang, E. breakwater.	33° 16.1' N 126° 39.7' E	Fl.R. period 6s	59	8	Red round concrete tower; 33.	
17455.5 M 4272.95	--W. breakwater.	33° 15.9' N 126° 39.8' E	Fl.G. period 6s	56	5	White round concrete tower; 33.	
17456 M 4272.8	-Chigwi Do.	33° 13.6' N 126° 39.4' E	Fl.W. period 5s	56	8	White round concrete tower; 39.	
	-RACON		Y(- • - -)		10		
17456.1 M 4272.96	Hahyo Hang, breakwater.	33° 14.8' N 126° 37.3' E	Fl.Y. period 6s	49	7	Yellow round steel tower; 26.	
17457 M 4272.97	Pomongtong Hang, E. breakwater.	33° 14.2' N 126° 36.5' E	Fl.R. period 5s	39	5	Red round metal tower; 26.	
17460 M 4274.5	Sogwip'o Hang, E. breakwater, head.	33° 14.1' N 126° 33.9' E	Fl.R. period 6s	30	6	Red post; 10.	
17462 M 4274.2	-S. breakwater.	33° 13.9' N 126° 33.8' E	Fl.G. period 4s	33	5	White round steel tower; 11.	
17467 M 4274.505	Seogwipo Oehang, breakwater.	33° 14.0' N 126° 34.0' E	Fl.R. period 4s	56	7	Red round concrete tower; 49.	Visible 095° 30' -101°.
17468 M 4273	Nok Do.	33° 13.5' N 126° 34.0' E	Fl.W. period 6s	315	17	White round concrete tower; 31.	
17472	Beophwan Hang, S. breakwater.	33° 14.2' N 126° 31.0' E	Fl.G. period 6s	39	5	White round steel tower; 26.	
17476.1 M 4274.55	Sebyeolgot.	33° 13.4' N 126° 28.7' E	Q.(3)W. period 10s	62	11	E. CARDINAL BYB, beacon, topmark; 72.	
17477 M 4274.58	Hayejinhwang.	33° 13.7' N 126° 22.8' E	Fl.W. period 7s	72	16	White round concrete tower; 40.	
17480 M 4254	-Mara Do.	33° 07.0' N 126° 16.2' E	Fl.W. period 10s	167	26	White octagonal concrete tower; 36.	Siren: 1 bl. ev. 30s (bl. 5s, si. 25s).
	-RACON		M(- -)		30		
17481 M 4252	Socotra Rock.	32° 07.4' N 125° 10.9' E	Mo.(U)W. period 15s	121	14	Platform with helipad; 16.	100 miles SW. of Cheju Do. Horn: 3 bl. ev. 30s (bl. 0.75s, si. 1s, bl. 0.75s, si. 1s, bl. 2.5s, si. 24s).
	RACON		D(- • •)		35		
17482 M 4254.2	Kap'a Hang, S. breakwater.	33° 09.7' N 126° 16.6' E	Fl.G. period 6s	36	5	White square steel tower; 28.	
17483	Kwangpotan.	33° 10.2' N 126° 17.6' E	Fl.(2)W. period 5s	49	8	ISOLATED DANGER BRB, beacon, topmark; 36.	
17483.5	Kwabutan.	33° 10.3' N 126° 14.3' E	Fl.(2)W. period 10s	52	8	ISOLATED DANGER BRB, tower, topmark; 76.	
17484 M 4254.6	-Mosulpo Hang, E. breakwater, head.	33° 12.6' N 126° 15.1' E	Fl.R. period 5s	49	9	Red round concrete tower; 33.	
17488 M 4254.4	-W. breakwater, head.	33° 12.8' N 126° 15.0' E	Fl.G. period 5s	56	9	White round concrete tower; 33.	
17489 M 4254.9	Hwasun Hang, outer breakwater.	33° 13.9' N 126° 19.7' E	Fl.Y. period 4s	56	7	Yellow round metal tower; 20.	
17490 M 4254.8	Sagye Hang, breakwater.	33° 13.6' N 126° 18.4' E	Fl.R. period 6s	52	8	Red round concrete tower; 43.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
17496 <i>M 4255</i>	-Ch'agwi Do.	33° 18.7' N 126° 08.9' E	Fl.W. period 6s	220 67	11	White concrete column; 16.	Visible 332° -208° .
	-RACON		O(---)		10		
17496.5 <i>M 4255.15</i>	Sindo.	33° 16.6' N 126° 10.1' E	Fl.G. period 6s	33 10	5	White round structure; 30.	
17497 <i>M 4255.25</i>	-Jejudo.	33° 18.8' N 126° 09.4' E	V.Q.(9)W. period 10s	52 16	7	W. CARDINAL YBY, beacon, topmark; 75.	
17498 <i>M 4255.35</i>	Yongsu.	33° 19.3' N 126° 09.8' E	Fl.G. period 6s	39 12	5	White round structure; 30.	
17500 <i>M 4256</i>	-Shingchang.	33° 20.6' N 126° 10.3' E	Fl.W. period 4s	62 19	8	White round concrete structure; 36.	
17500.5 <i>M 4256.2</i>	Sinchang-ni, NE.	33° 21.0' N 126° 10.7' E	Fl.R. period 6s	43 13	5	Red round metal tower; 26.	
17500.6 <i>M 4256.3</i>	Dumo Hang, breakwater.	33° 21.4' N 126° 10.7' E	Fl.G. period 5s	43 13	5	White round metal tower; 30.	
17501 <i>M 4256.5</i>	Suyonggot.	33° 23.2' N 126° 13.5' E	Fl.W. period 6s	49 15	8	White octagonal concrete tower; 40.	
17501.2 <i>M 4259.5</i>	-Hyeopjae Hang, breakwater.	33° 23.9' N 126° 14.5' E	Fl.G. period 4s	36 11	5	White round steel tower; 25.	
17502 <i>M 4255.5</i>	-Yongdang Sanggot.	33° 20.1' N 126° 09.0' E	Q.(9)W. period 15s	49 15	8	W. CARDINAL YBY, tower, topmark; 46.	
17504 <i>M 4258</i>	Piyang-do.	33° 24.6' N 126° 13.7' E	Fl.W. period 6s	390 119	17	White round concrete tower; 16.	
	RACON		B(-...)		10		
17505 <i>M 4259</i>	--S. end.	33° 24.2' N 126° 13.8' E	Q.(6)+L.Fl.W. period 15s	42 13	8	S. CARDINAL YB, tower; 39.	
17506 <i>M 4260</i>	Piyangdo Hang, E. breakwater.	33° 24.3' N 126° 13.8' E	Fl.(2)R. period 6s	26 8	5	Red round metal tower; 16.	
17508 <i>M 4257</i>	-Sobiyo.	33° 25.0' N 126° 13.5' E	Q.W.	39 12	8	N. CARDINAL BY, tower, topmark; 33.	
17512 <i>M 4263</i>	-Hallim, N. breakwater, head.	33° 25.0' N 126° 15.2' E	Fl.G. period 5s	59 18	9	White round concrete tower; 49.	
17516 <i>M 4262</i>	--W. breakwater, head.	33° 25.0' N 126° 15.2' E	Fl.R. period 4s	43 13	9	Red round concrete tower; 26.	
17518 <i>M 4263.5</i>	-Unyongot.	33° 26.1' N 126° 15.9' E	Fl.W. period 5s	43 13	8	White round concrete tower; 33.	
17519 <i>M 4263.7</i>	Younguntong Hang, W. breakwater.	33° 26.3' N 126° 16.3' E	Fl.R. period 5s	36 11	5	Red round metal tower; 26.	
17519.5 <i>M 4263.9</i>	-Kwidok, 2-ri.	33° 26.8' N 126° 16.6' E	V.Q.W.	49 15	7	N. CARDINAL BY, tower, topmark; 52.	
17519.6 <i>M 4263.92</i>	-1-ri.	33° 26.9' N 126° 17.6' E	Fl.R. period 6s	46 14	5	Red round concrete tower; 56.	
17520 <i>M 4264</i>	-Kwideok.	33° 26.8' N 126° 17.5' E	Fl.W. period 6s	59 18	8	White round concrete tower; 42.	
17528 <i>M 4265.2</i>	Aewol Hang, N. breakwater.	33° 28.2' N 126° 19.6' E	Fl.R. period 5s	52 16	8	Red round concrete tower; 33.	
17528.5 <i>M 4265.3</i>	-E. breakwater.	33° 28.1' N 126° 19.7' E	Fl.G. period 5s	49 15	8	White concrete tower; 33.	
17528.6 <i>M 4265.4</i>	Gonae Hang, breakwater.	33° 28.1' N 126° 20.3' E	Fl.(2)R. period 6s	30 9	6	Red round steel tower; 16.	
17528.62 <i>M 4265.43</i>	Sineom.	33° 28.5' N 126° 21.1' E	Fl.R. period 6s	36 11	6	Red round pillar; 30.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
17528.65 <i>M 4265.45</i>	Gueom Hang, breakwater.	33° 29.1' N 126° 22.5' E	Fl.G. period 6s	33 10	5	White round metal tower; 30.	
17528.7 <i>M 4265.5</i>	Gamundong Hang.	33° 29.2' N 126° 23.6' E	Fl.R. period 5s	36 11	5	Red round steel tower; 26.	
17528.8 <i>M 4265.55</i>	Ihohyeonsa.	33° 29.9' N 126° 27.0' E	Fl.(2)R. period 6s	36 11	5	Red round pillar; 30.	
17529 <i>M 4278.3</i>	Milmae Do.	34° 15.0' N 126° 19.9' E	Fl.W. period 4s	177 54	8	White round concrete tower; 37.	
17530 <i>M 4278.2</i>	Juggul Do (Chukkul do).	34° 14.0' N 126° 25.2' E	Fl.W. period 6s	167 51	8	White round concrete tower; 37.	Visible 351° -345°.
17531 <i>M 4278.15</i>	Seoneob Do.	34° 11.4' N 126° 28.4' E	Fl.W. period 4s	167 51	8	White round concrete tower; 37.	Visible 351° -237°.
17531.5 <i>M 4279.37</i>	Hugil-to.	34° 16.5' N 126° 32.4' E	Fl.W. period 5s	46 14	8	White round concrete tower; 30.	
17532 <i>M 4278</i>	Oryong Do.	34° 17.2' N 126° 28.4' E	Fl.W. period 15s	305 93	21	White octagonal concrete structure; 27.	Horn: 1 bl. ev. 40s.
	RACON		O(---)		8		(3 & 10 cm).
17533.5 <i>M 4279.36</i>	Galdu Hang.	34° 17.9' N 126° 31.8' E	Fl.G. period 5s	46 14	8	White square concrete tower; 36.	
17534	Yangdo.	34° 17.6' N 126° 30.7' E	Fl.W. period 4s	75 23	8	White octagonal concrete tower; 27.	Visible 310° -150°.
17535	Eobuldo.	34° 19.9' N 126° 28.3' E	Fl.(3)W. period 7s	52 16	8	White hexagonal steel tower; 30.	
17536 <i>M 4279</i>	Oran-ni.	34° 20.9' N 126° 28.5' E	Fl.G. period 6s	36 11	5	White round concrete tower; 26.	
17540 <i>M 4279.3</i>	Sang ma Do.	34° 27.0' N 126° 25.0' E	Fl.(2)W. period 6s	157 48	8	White round concrete structure; 17.	
17544 <i>M 4278.4</i>	Guja Do (Ku-do).	34° 19.1' N 126° 18.2' E	Fl.(2)W. period 6s	138 42	8	White round concrete tower; 26.	Visible 200° -098°.
17546	Marohae.	34° 21.6' N 126° 12.8' E	Fl.W. period 5s	69 21	8	White hexagonal metal tower; 19.	
17548 <i>M 4243</i>	Tokko-do.	34° 15.5' N 126° 11.1' E	Fl.W. period 6s	223 68	8	White round concrete tower; 10.	Visible 038° -101° and 116° -315°.
17549 <i>M 4242.6</i>	Poksacho.	34° 05.9' N 126° 10.1' E	Fl.(2)W. period 10s	56 17	10	ISOLATED DANGER BRB, beacon, topmark; 29.	
	RACON		K(- • -)				
17551.8 <i>M 4247.6</i>	Turyang-do.	34° 21.1' N 125° 53.9' E	Fl.(2)W. period 10s	39 12	8	ISOLATED DANGER BRB, beacon, topmark; 39.	
17552 <i>M 4247.25</i>	Nulog Do (Nurok-to), SE. end.	34° 20.7' N 125° 57.5' E	Fl.W. period 4s	43 13	8	White round concrete tower; 28.	
17554 <i>M 4247.7</i>	Oebyeong Do.	34° 22.5' N 125° 56.5' E	Fl.W. period 10s	267 81	18	White octagonal concrete tower; 34.	Visible 068° -264°.
17556 <i>M 4246</i>	Hajo Do.	34° 18.5' N 126° 05.4' E	Fl.W. period 10s	157 48	21	White round concrete structure; 46.	Visible 130° -336°. Siren: 1 bl. ev. 55s.
17557	Dang Dan.	34° 19.1' N 126° 02.9' E	Fl.(2)W. period 5s	33 10	8	ISOLATED DANGER BRB, beacon, topmark; 26.	
17558	Pulmu Do.	34° 19.3' N 126° 10.3' E	Fl.W. period 4s	148 45	8	White round concrete tower; 34.	
17559	Hangando.	34° 19.0' N 126° 07.9' E	Fl.(2)W. period 6s	105 32	8	White octagonal concrete tower; 27.	
17559.5	Changjukto.	34° 20.8' N 126° 06.7' E	Fl.W. period 6s	59 18	8	White octagonal concrete tower; 27.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
17560 <i>M 4247</i>	Semog.	34° 18.0' N 126° 01.0' E	Fl.W. period 4s	56 17	8	White round concrete tower; 26.	Visible 018° -073° and 146° -215°.
17561 <i>M 4249.6</i>	Taema-Do.	34° 17.3' N 125° 59.2' E	Q.(6)+L.Fl.W. period 15s	33 10	8	S. CARDINAL YB, tower, topmark; 25.	
17562 <i>M 4249.8</i>	Haesu So.	34° 16.0' N 126° 01.5' E	Fl.(2)W. period 10s	36 11	8	ISOLATED DANGER BRB, beacon, topmark; 36.	
17563 <i>M 4249.7</i>	Koma-do.	34° 13.7' N 125° 59.5' E	Fl.W. period 4s	164 50	9	White round concrete tower; 33.	Obscured 045° -090°.
17564 <i>M 4249</i>	Seogeocho Do.	34° 15.4' N 125° 55.5' E	Fl.W. period 6s	98 30	8	White round concrete tower; 19.	
17568 <i>M 4249.2</i>	-Seogeocho. Do Hang, E. breakwater.	34° 14.9' N 125° 55.0' E	Fl.R. period 4s	46 14	5	Red round concrete tower; 28.	
17572 <i>M 4249.4</i>	--W. breakwater.	34° 14.8' N 125° 54.9' E	Fl.G. period 4s	46 14	5	White round concrete tower; 28.	
17576 <i>M 4248</i>	Chuk-to.	34° 13.5' N 125° 50.8' E	Fl.W. period 10s	279 85	21	White round concrete tower; 30.	Visible 350° -323° . Siren: 1 bl. ev. 35s.
	RACON		Z(- - • •)		10		
17577	Pyonso.	34° 11.5' N 125° 49.6' E	Fl.(2)W. period 5s	36 11	8	ISOLATED DANGER BRB, beacon, topmark; 43.	
17580 <i>M 4250</i>	Pyongp'ung - do.	34° 08.0' N 125° 57.0' E	Fl.W. period 6s	154 47	8	White round concrete tower; 30.	
17581 <i>M 4246.6</i>	Somang Hang, S. breakwater.	34° 21.9' N 126° 07.9' E	Fl.(2)R. period 6s	49 15	5	Red round concrete tower; 33.	
17581.5 <i>M 4246.65</i>	-N. breakwater.	34° 21.9' N 126° 07.8' E	Fl.G. period 6s	49 15	5	White round concrete tower; 33.	
17581.7	Songnamdo.	34° 23.4' N 126° 03.4' E	Fl.W. period 4s	43 13	8	White round steel tower; 26.	
17581.8	Chindo.	34° 24.1' N 126° 05.9' E	Fl.(2)W. period 6s	36 11	8	White round concrete tower; 26.	
17582 <i>M 4232.6</i>	Pulto.	34° 26.4' N 126° 03.8' E	Fl.W. period 6s	171 52	8	White round concrete tower; 33.	Visible 202° -086°.
	RACON		B(- • • •)		10		
17583	Kalduri.	34° 28.5' N 126° 07.6' E	Fl.(2)W. period 10s	46 14	8	ISOLATED DANGER BRB, tower, topmark; 36.	
17584 <i>M 4232</i>	Kasa Do.	34° 27.6' N 126° 02.6' E	Fl.W. period 15s	249 76	27	White octagonal concrete tower; 56.	Horn: 1 bl. ev. 45s (bl. 5s, si. 40s).
17585	Kadokdo.	34° 26.9' N 126° 00.2' E	Fl.(2)W. period 6s	36 11	8	White round concrete tower; 26.	
17586	Chisi Do.	34° 31.7' N 126° 00.9' E	Fl.W. period 6s	165 50	8	White round concrete tower; 34.	Visible 143° -269°.
17587	Shindo.	34° 35.5' N 125° 57.6' E	Fl.W. period 5s	59 18	8	White round concrete tower; 26.	
17588 <i>M 4228.5</i>	Bi Do (Pi-do).	34° 34.0' N 125° 54.9' E	Fl.(2)W. period 6s	95 29	8	White round concrete tower; 30.	
17592 <i>M 4234</i>	Cho Do, NW. Point.	34° 30.7' N 126° 09.7' E	Fl.(2)W. period 6s	36 11	8	White round concrete tower; 26.	Visible 036° -248°.
17593 <i>M 4234.6</i>	To-so.	34° 31.5' N 126° 04.5' E	Fl.(2)W. period 5s	46 14	9	ISOLATED DANGER BRB, tower, topmark; 36.	
17594 <i>M 4234.8</i>	Man-so.	34° 30.4' N 126° 02.2' E	Fl.(2)W. period 10s	52 16	9	ISOLATED DANGER BRB, tower, topmark; 46.	
17596 <i>M 4236</i>	Ku Do, on small islet S. of Yul To.	34° 34.1' N 126° 11.8' E	Fl.W. period 4s	95 29	8	White round brick structure; 24.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
17598	Chindo Bridge.	34° 34.1' N 126° 18.4' E	F.W.	65 20	7	White round daymark, red stripes.	Marks center of navigable span.
17600 <i>M 4241</i>	Nog Do, SW. end of island.	34° 33.6' N 126° 19.2' E	Fl.W. period 4s	89 27	8	White round concrete tower; 26.	
17604 <i>M 4242</i>	Pangt'an Rock.	34° 33.5' N 126° 20.6' E	Fl.R. period 4s	43 13	5	STARBOARD (B) R, beacon, topmark; 42.	
17608 <i>M 4238</i>	Imha Do.	34° 36.5' N 126° 15.7' E	Fl.(2)W. period 6s	69 21	8	White round concrete structure; 20.	Visible 323° -180°.
17612 <i>M 4237</i>	Changdo.	34° 37.4' N 126° 13.3' E	Fl.W. period 6s	102 31	8	White round concrete tower; 30.	
	RACON		M(- -)		10		
17614 <i>M 4235</i>	Chi Do.	34° 40.0' N 126° 12.7' E	Fl.(2)W. period 6s	92 28	8	White round concrete tower; 37.	
	RACON		Y(- • - -)		10		
17615 <i>M 4219.5</i>	Bokhocho.	34° 41.9' N 126° 10.4' E	Fl.G. period 5s	46 14	7	Green concrete tower, green square daymark; 33.	
17616 <i>M 4220</i>	Siha Do.	34° 42.0' N 126° 14.5' E	Fl.W. period 12s	128 39	22	White round concrete tower; 25.	Visible 350° -213°. Horn: 1 bl. ev. 35s. (bl. 5s, si. 30s).
17617	Chungsando.	34° 42.4' N 126° 11.7' E	Fl.W. period 6s	43 13	8	White octagonal concrete tower; 27.	
17620 <i>M 4215</i>	Pyon Do.	34° 45.2' N 126° 10.4' E	Fl.W. period 4s	52 16	8	White round concrete structure; 20.	Visible 183° -330°.
	RACON		G(- - •)		10		
17621 <i>M 4216.9</i>	Pulmugi-do.	34° 45.6' N 126° 13.4' E	Fl.W. period 5s	105 32	15	White square concrete tower; 36.	
	RACON		Z(- - • •)		10		
17622 <i>M 4217.3</i>	Oedalto Island.	34° 46.5' N 126° 17.5' E	Fl.W. period 4s	49 15	8	White concrete tower; 27.	Visible 312° -205°.
17623 <i>M 4217.38</i>	Maek-to, SW.	34° 47.3' N 126° 19.0' E	Fl.(2)W. period 6s	49 15	8	White octagonal concrete tower; 43.	
17624 <i>M 4217</i>	-Hwaweon Bando.	34° 45.7' N 126° 17.9' E	Fl.W. period 5s	121 37	20	White round concrete structure; 118.	Obscured 305° -067°. Siren: 1 bl. ev. 30s. (bl. 5s, si. 25s).
17625 <i>M 4217.7</i>	--Eastern.	34° 44.9' N 126° 19.2' E	Fl.W. period 6s	108 33	8	White round concrete tower; 27.	Visible 127° -304°.
17626	Tallido.	34° 45.4' N 126° 19.3' E	Fl.(2)W. period 6s	49 15	8	White concrete tower; 23.	Visible 245° -104°.
17627	Changjwa-do.	34° 46.9' N 126° 20.3' E	Fl.W. period 5s	46 14	8	White octagonal concrete tower; 46.	Visible 207° -135°.
17627.7 <i>M 4217.8</i>	Mokpo Hang Bridge.	34° 45.1' N 126° 21.9' E	F.W.	33 10	7	Red round daymark, white stripes.	F.G. 10m 4M and F.R. 10m 5M mark width of navigable span.
17628 <i>M 4218</i>	Monghado.	34° 46.0' N 126° 22.9' E	Fl.W. period 4s	98 30	6	Tower on concrete base; 49.	
17628.5 <i>M 4218.1</i>	-No. 2 Wharf, Pontoon.	34° 46.9' N 126° 23.3' E	Fl.(2)R. period 6s	20 6	6	Red round steel pipe; 13.	
17629	Tabul Hang A.	34° 46.6' N 126° 26.1' E	Fl.(4)Y. period 8s	30 9	6	Yellow tower; 15.	
17629.5	-B.	34° 46.6' N 126° 25.9' E	Fl.Y. period 6s	30 9	7	Yellow tower; 15.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
17630 <i>M 4218.3</i>	Tongyang dolphin A.	34° 46.7' N 126° 25.6' E	Fl.(2)Y. period 6s	30 9	7	Yellow round pipe.	Horn: 1 bl. ev. 20s.
17630.5 <i>M 4218.35</i>	-B.	34° 46.7' N 126° 25.7' E	Fl.Y. period 4s	30 9	7	Yellow round pipe.	
17632 <i>M 4215.5</i>	Hanaptokto.	34° 48.3' N 126° 13.0' E	Fl.W. period 6s	85 26	8	Round white tower.	
17633	Amchido.	34° 49.7' N 126° 09.9' E	Fl.(2)W. period 5s	40 12	8	ISOLATED DANGER BRB, beacon, topmark; 40.	
17636 <i>M 4216</i>	Amtae Do, E. extremity of island.	34° 51.7' N 126° 09.6' E	Fl.W. period 4s	125 38	8	White round brick structure; 23.	Visible 144° -339°.
17640 <i>M 4216.5</i>	Chaun-do.	34° 55.1' N 126° 05.6' E	Fl.(2)W. period 6s	112 34	8	White round concrete tower; 30.	Visible 133° -330°.
17641	Haeso.	34° 53.7' N 126° 07.2' E	Q.W.	26 8	8	N. CARDINAL BY, tower, topmark; 25.	
17642 <i>M 4217.5</i>	Hwangdo.	34° 55.5' N 126° 09.3' E	Fl.W. period 6s	108 33	8	White round concrete tower; 37.	
17642.5	Pigum-Toch'odo Bridge.	34° 43.0' N 125° 56.4' E	F.W.	79 24	7	Center span.	F.R., F.G. and F.Y. mark bridge pilings.
17643 <i>M 4230</i>	Daegog Do.	34° 42.4' N 125° 54.5' E	Fl.(2)W. period 6s	115 35	8	White round tower; 26.	
	RACON		X(- • • -)		10		
17643.1 <i>M 4210.8</i>	Oegalto.	34° 59.8' N 126° 05.3' E	Fl.W. period 5s	108 33	8	White round concrete tower; 27.	Visible 328° -208°.
17643.5	Pyongpungdo.	34° 59.1' N 126° 11.8' E	Fl.(2)W. period 5s	36 11	8	ISOLATED DANGER BRB, beacon, topmark; 36.	
17644 <i>M 4211</i>	Odo.	34° 56.5' N 125° 57.5' E	Fl.W. period 4s	236 72	8	White round concrete tower; 36.	
17644.2 <i>M 4211.2</i>	Jasonyeo.	35° 01.4' N 125° 51.7' E	Q.W.	69 21	8	N. CARDINAL BY, tower, topmark; 36.	
17644.5 <i>M 4229.8</i>	Changgu-so.	34° 43.7' N 125° 52.6' E	Fl.W. period 5s	62 19	8	White round concrete tower; 29.	
17645 <i>M 4229.5</i>	Pokto.	34° 42.0' N 125° 50.3' E	Fl.(2)W. period 10s	52 16	8	ISOLATED DANGER BRB, beacon, topmark; 36.	
	RACON		O(- - -)		10		
17646	Uido.	34° 37.1' N 125° 48.3' E	Fl.W. period 5s	272 83	15	White round concrete tower; 27.	Visible 345° -156°.
17648 <i>M 4229</i>	Kyongch'i Do.	34° 38.9' N 125° 53.8' E	Fl.W. period 4s	154 47	8	White round concrete tower; 29.	Visible 120° -061°.
17649 <i>M 4229.1</i>	Chongdar-am.	34° 39.1' N 125° 55.5' E	Fl.(2)W. period 5s	26 8	8	ISOLATED DANGER BRB, beacon, topmark; 59.	
17650	-Touch'ado.	34° 44.0' N 125° 57.8' E	Fl.W. period 6s	45 14	8	White octagonal concrete tower; 27.	
17652 <i>M 4213</i>	Sangsuchsi Do.	34° 45.8' N 126° 01.2' E	Fl.(2)W. period 6s	121 37	8	White round concrete structure; 27.	Visible 018° -299°.
17656 <i>M 4231</i>	Jeung Do.	34° 44.2' N 125° 59.3' E	Fl.W. period 4s	49 15	8	White round concrete tower; 26.	Visible 085° -307°.
	RACON		K(- • -)		10		
17658 <i>M 4231.5</i>	Migido.	34° 41.0' N 126° 00.9' E	Fl.W. period 4s	66 20	8	White concrete tower; 49.	
17660 <i>M 4213.5</i>	Samdo.	34° 46.1' N 126° 03.1' E	Fl.W. period 4s	49 15	8	White round concrete tower; 30.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
17661	Sangsachi Do.	34° 45.6' N 126° 02.7' E	Q.(9)W. period 15s	36 11	8	W. CARDINAL YBY, tower, topmark; 43.	
17664 M 4214	P'algum Do.	34° 47.1' N 126° 05.1' E	Fl.W. period 6s	59 18	8	White round concrete structure; 20.	Visible 296° -206° .
17664.1 M 4214.3	P'algum Do/Amt'ae Do, bridge.	34° 48.0' N 126° 07.2' E	F.W.	62 19	7	Bridge center.	F.G. 19m 5M and FR. 19m 5M mark either side of navigable channel.
17665	Somajindo.	34° 46.4' N 126° 07.1' E	Fl.W. period 4s	45 14	8	White octagonal concrete tower; 28.	
17665.5	Sinan bridge, center span.	34° 45.9' N 126° 07.9' E	F.W.	82 25	7		
17666 M 4211.5	Chinso Mal.	34° 52.3' N 125° 58.2' E	Fl.W. period 5s	197 60	18	White round concrete tower; 32.	Visible 335° -216° .
17668 M 4212.5	Use Do.	34° 47.3' N 125° 54.6' E	Fl.W. period 4s	222 68	8	White round tower; 30.	
17669 M 4212.7	Wonpy'ong Hang, W. breakwater.	34° 46.7' N 125° 54.7' E	Fl.(2)R. period 6s	45 14	5	Red round concrete tower; 30.	Visible 125° -235° .
17670 M 4212.8	-E. breakwater.	34° 46.7' N 125° 54.8' E	Fl.(2)G. period 6s	31 9	5	White steel mast; 16.	
17672 M 4212	Ch'ilbal Do.	34° 47.4' N 125° 47.3' E	Fl.W. period 15s	345 105	19	White brick column; 29.	
	RACON		B(- • •)		10		
17676 M 4225	Hajuk To.	34° 45.8' N 125° 26.7' E	Fl.W. period 5s	328 100	18	White round concrete tower; 19.	
17678 M 4222.5	Hojangdo.	34° 42.8' N 125° 24.5' E	Fl.W. period 10s	256 78	18	White round concrete tower; 27.	Visible 191° -100° .
17679 M 4222.1	Pulgun-yo.	34° 42.3' N 125° 28.1' E	Q.W.	39 12	8	N. CARDINAL BY, beacon, topmark; 36.	
17680 M 4224	Ka Do.	34° 42.1' N 125° 28.1' E	Fl.(2)W. period 6s	213 65	8	White round concrete structure; 20.	Visible 347° -311° .
	RACON		C(- • - •)		10		
17682 M 4223.3	Taehuksan Do, S. breakwater.	34° 41.7' N 125° 26.8' E	Fl.(2)G. period 6s	43 13	5	White octagonal concrete tower; 26.	
17683 M 4223.4	-N. breakwater.	34° 41.7' N 125° 26.5' E	Fl.(2)R. period 6s	43 13	5	Red square metal framework tower; 27.	
17684 M 4223	Taehuksan Do, inner breakwater.	34° 41.3' N 125° 26.5' E	Fl.G. period 4s	39 12	5	White fiberglass tower; 24.	
17688 M 4223.5	Yongsan Do (Taehand-do).	34° 39.0' N 125° 28.8' E	Fl.W. period 4s	167 51	8	White round concrete tower; 30.	Visible 106° -020° .
17692 M 4225.5	Kyomaek To (Maemulda).	34° 31.2' N 125° 41.3' E	Fl.W. period 10s	420 128	16	White round fiberglass tower; 18.	Visible 225° -175° .
17694 M 4223.8	Taehuksan Do.	34° 38.6' N 125° 23.1' E	Fl.W. period 6s	154 47	8	White hexagonal steel tower; 20.	
17695 M 4223.9	Taejangdo, Songammal.	34° 40.0' N 125° 22.2' E	Fl.W. period 4s	75 23	8	White metal pipe; 26.	
17696 M 4222	Hong-do.	34° 42.7' N 125° 12.3' E	Fl.(3)W. period 20s	291 89	24	White square concrete tower; 33.	Visible 035° -039° , 044° - 237° . Siren: 1 bl. ev. 50s.
17697	-Chuk Hang.	34° 40.6' N 125° 12.2' E	Fl.(2)W. period 6s	98 30	8	White round concrete tower; 26.	Visible 220° -040° .
17700 M 4226	Hat'ae Do.	34° 24.0' N 125° 18.0' E	Fl.W. period 6s	105 32	8	White round concrete structure; 20.	Visible 116° -308° .

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
17704 M 4228	Manjae Do.	34° 12.6' N 125° 28.4' E	Fl.W. period 5s	640 195	16	White round concrete tower; 18.	
17708 M 4227	Sohuksan Do.	34° 05.5' N 125° 06.2' E	Fl.W. period 15s	276 84	27	White round brick structure; 36.	Visible 032° -268° except where obscured by shore (149° -153°). Siren: 1 bl. ev. 60s.
17709 M 4227.2	Kagodo-ri.	34° 02.9' N 125° 07.4' E	Fl.R. period 5s	49 15	5	Red round concrete tower; 23.	
17710 M 4227.4	-Mulsogmal.	34° 02.9' N 125° 08.7' E	Fl.W. period 10s	512 156	17	White octagonal tower; 21.	
17712 M 4210	Taerorok To.	35° 06.6' N 125° 59.4' E	Fl.W. period 5s	236 72	18	White round concrete tower; 23.	Visible 159° -035° and 046° -077°.
17713 M 4210.5	Naedo.	35° 01.1' N 126° 12.6' E	Q.(9)W. period 15s	30 9	8	W. CARDINAL YBY, beacon; 25.	
17714	Sambongdan.	35° 08.5' N 126° 09.9' E	Fl.W. period 4s	102 31	8	White round concrete tower; 33.	Visible 202° -035°.
17716 M 4209	Anma Do.	35° 20.1' N 125° 59.4' E	Fl.W. period 10s	279 85	18	White concrete column; 17.	Visible 333° -338° and 350° -199°.
17718	Kyema Hang, groin.	35° 23.2' N 126° 24.4' E	Fl.R. period 5s	39 12	5	Red octagonal concrete tower; 26.	
17718.5	-Breakwater.	35° 23.2' N 126° 24.3' E	Fl.G. period 5s	46 14	5	White octagonal concrete tower; 26.	
17720 M 4208	Popsong, N. side of entrance.	35° 22.5' N 126° 24.8' E	Fl.W. period 4s	230 70	12	White concrete tower; 17.	Visible 049° -159°.
17721	Anma Hang, S. breakwater.	35° 20.7' N 126° 00.6' E	Fl.R. period 5s	49 15	5	Red round concrete tower; 33.	
17722	-N. breakwater.	35° 20.7' N 126° 00.5' E	Fl.G. period 5s	52 16	5	Red round concrete tower; 33.	
17726	Koryundo.	35° 34.2' N 126° 14.5' E	Fl.W. period 6s	115 35	8	White square concrete tower; 46.	
17726.5 M 4207.2	Pejam-yo.	35° 35.8' N 126° 13.6' E	Fl.(2)W. period 5s	49 15	8	ISOLATED DANGER BRB, beacon, topmark; 52.	
17727 M 4206.7	Kalmaeyo.	35° 36.8' N 126° 14.7' E	Fl.(2)W. period 10s	46 14	8	ISOLATED DANGER BRB, tower, topmark; 56.	
17727.5	Taeri Hang, breakwater, head.	35° 34.2' N 126° 16.1' E	Fl.G. period 6s	43 13	5	White round concrete tower; 29.	
17727.6 M 4206.955	Wido.	35° 34.0' N 126° 16.0' E	Fl.W. period 4s	72 22	8	White round concrete tower; 33.	
17728 M 4206.8	Wi Do, on Pajanggeum Hang, breakwater.	35° 37.3' N 126° 18.0' E	Fl.G. period 5s	43 13	5	White round concrete tower; 27.	
	RACON		B(- • • •)		10		
17729	-Pajanggeum Hang, groin.	35° 37.1' N 126° 18.1' E	Fl.(2)R. period 6s	39 12	5	Red round concrete tower; 28.	
17731 M 4207.3	Heukseo.	35° 37.1' N 126° 21.8' E	Fl.W. period 6s	66 20	8	White round concrete tower; 39.	Obscured 213° -223°.
17732 M 4207.4	-Changun So.	35° 34.5' N 126° 23.9' E	Fl.(2)W. period 10s	49 15	8	ISOLATED DANGER BRB, beacon, topmark; 46.	
17733	-Kokunsan Kundo.	35° 39.0' N 126° 24.6' E	Fl.(2)W. period 5s	56 17	8	ISOLATED DANGER BRB, beacon, topmark; 46.	
17736 M 4207.5	-Kaesom.	35° 35.8' N 126° 28.0' E	Fl.W. period 5s	56 17	8	White round structure; 20.	
17737 M 4207.65	Kyongpo Hang, N. breakwater.	35° 37.3' N 126° 27.7' E	Fl.G. period 7s	56 17	5	White round concrete tower; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
17738 M 4207.6	-S. breakwater, head.	35° 37.2' N 126° 27.8' E	Fl.R. period 7s	59 18	5	Red round concrete tower; 33.	
17740 M 4207.7	-Chulpa Hong.	35° 35.1' N 126° 36.5' E	Fl.W. period 10s	56 17	5	White metal framework tower; 46.	
17744 M 4206.6	Sangwangdung Do.	35° 39.5' N 126° 06.5' E	Fl.W. period 5s	571 174	18	White round concrete structure; 17.	
17746 M 4206.38	Saemangeum beacon A.	35° 43.2' N 126° 24.6' E	Fl.(4)Y. period 8s	28 9	6	SPECIAL Y, tower, topmark; 76.	
17746.5 M 4206.85	Pian-do.	35° 43.6' N 126° 27.6' E	Fl.W. period 6s	56 17	8	White round concrete tower; 32.	
17748 M 4206	Maldo.	35° 51.5' N 126° 18.9' E	Fl.W. period 10s	197 60	13	White octagonal concrete structure, on dwelling; 52.	Visible 324° -276° . Siren: 1 bl. ev. 55s.
	RACON		C(- • - •)		10		
17749 M 4206.1	-W. breakwater.	35° 51.2' N 126° 19.0' E	Fl.G. period 5s	59 18	5	White round concrete tower; 33.	
17749.5 M 4206.15	-E. breakwater.	35° 51.3' N 126° 19.0' E	Fl.R. period 5s	59 18	5	Red round concrete tower; 33.	
17751 M 4205.5	Solp'un-so.	35° 51.8' N 126° 21.0' E	Fl.(2)W. period 10s	49 15	8	ISOLATED DANGER BRB, tower, topmark; 49.	
17752 M 4206.3	Sohoenggyong Do.	35° 51.3' N 126° 23.7' E	Fl.W. period 4s	98 30	8	White hexagonal concrete tower; 33.	Visible 270° -224° .
17753	Golseo.	35° 49.5' N 126° 22.8' E	Fl.(2)W. period 5s	62 19	8	ISOLATED DANGER BRB, beacon, topmark; 72.	
17753.1	Heukdo.	35° 49.6' N 126° 22.3' E	Fl.(2)W. period 10s	62 19	8	ISOLATED DANGER BRB, beacon, topmark; 49.	
17754 M 4206.35	-Hoenggan Do.	35° 51.3' N 126° 25.9' E	Fl.W. period 6s	177 54	8	White round concrete tower; 26.	
17756 M 4192	-AVIATION LIGHT.	35° 55.2' N 126° 37.1' E	Al.Oc.W.G. period 10s	125 38	21		
GUNSAN HANG:							
17757	-Detatched breakwater, S. head.	35° 58.7' N 126° 29.5' E	Fl.(2)G. period 6s	79 24	8	White round concrete tower; 65.	
	-RACON		G(- • - •)		10		
17758.5 M 4193.38	-Myeongam.	35° 59.3' N 126° 30.8' E	Fl.(2)W. period 10s	62 19	7	ISOLATED DANGER BRB, beacon, topmark; 82.	
17760 M 4191	-Yok' yong.	36° 02.0' N 126° 30.9' E	Fl.W. period 7s	75 23	8	White round structure; 20.	
17761 M 4193.6	-No. 6 wharf, A.	35° 58.5' N 126° 33.2' E	Fl.(4)Y. period 8s	30 9	6	Yellow column; 20.	Horn: 1 bl. ev. 20s (bl. 5s, si. 15s).
17762 M 4193.63	--B.	35° 58.5' N 126° 33.8' E	Fl.(4)Y. period 8s	30 9	6	Yellow column; 20.	
17764 M 4193	-Bieung Do.	35° 56.7' N 126° 31.5' E	Fl.W. period 4s	46 14	8	White hexagonal concrete tower; 43.	Visible 337° -228° .
17772 M 4196	-Kunsan Hang Ulho, B.	35° 58.7' N 126° 36.6' E	Fl.R. period 4s	46 14	9	STARBOARD (B) R, beacon, topmark; 48.	
17774 M 4195	-Sea-berth No. A.	35° 58.6' N 126° 36.4' E	Fl.(4)Y. period 8s	31 9	7	SPECIAL Y, tower, topmark; 15.	Private. Horn: 1 bl. ev. 20s (bl. 5s, si. 15s).
17774.5 M 4194	-Jetty.	35° 58.7' N 126° 36.0' E	Fl.(4)Y. period 8s	30 9	7	Yellow beacon; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
17775 <i>M 4193.8</i>	-Hyundai Oil, seaberth.	35° 58.7' N 126° 36.0' E	Fl.Y. period 4s	33 10	7	Yellow round fiberglass tower; 15.	Horn: 1 bl. ev. 15s (bl. 5s, si. 10s).
17776 <i>M 4196.5</i>	-Gunsan, E. end.	35° 58.8' N 126° 36.8' E	Fl.(4)Y. period 8s	49 15	12	SPECIAL Y, tower, topmark; 33.	
17780 <i>M 4197</i>	-Changsan Do.	35° 58.6' N 126° 37.0' E	Fl.R. period 5s	56 17	8	Red hexagonal concrete tower; 46.	
17788 <i>M 4198</i>	-On drying rock, N. of Ip lee Do (Pari Do).	35° 59.0' N 126° 38.5' E	Fl.(2)R. period 6s	36 11	8	STARBOARD (B) R, beacon, topmark; 36.	
17788.5 <i>M 4198.3</i>	-BASF, mooring light.	35° 59.0' N 126° 38.9' E	Fl.Y. period 4s	49 15	7	SPECIAL Y, beacon, topmark; 16.	
17789	-Training wall, head.	35° 59.0' N 126° 40.2' E	Fl.(4)Y. period 8s	33 10	7	Yellow round iron tower; 13.	
17789.5	--Tidal wall.	35° 59.3' N 126° 40.2' E	Fl.(4)Y. period 8s	33 10	7	SPECIAL Y, tower; 14.	
17792 <i>M 4199</i>	-Chonmang San.	36° 00.3' N 126° 40.3' E	Fl.G. period 4s	49 15	8	PORT (B) G, beacon, topmark.	
17794	-Changhang Hang No. A.	36° 00.5' N 126° 40.9' E	Fl.(4)Y. period 8s	11 3	7	Post.	Private light.
17796 <i>M 4205.2</i>	-Breakwater, N. head.	35° 59.5' N 126° 42.2' E	Fl.R. period 4s	31 9	5	White round concrete tower; 18.	
17800 <i>M 4204</i>	-Minya Am.	35° 59.2' N 126° 43.4' E	Fl.(2)W. period 10s	42 13	8	ISOLATED DANGER BRB, beacon, topmark; 36.	
17802 <i>M 4205</i>	-Hwajin Sea-berth.	35° 58.9' N 126° 43.9' E	Fl.Y. period 10s	33 10	7	Yellow metal framework tower; 18.	
17803	Gwangam.	36° 09.9' N 126° 29.5' E	Fl.R. period 5s	52 16	6	Red round concrete tower; 48.	
17804 <i>M 4190</i>	Yeon Do.	36° 04.9' N 126° 26.2' E	Fl.W. period 5s	636 194	12	White round concrete tower; 33.	
17806 <i>M 4190.6</i>	-N. breakwater.	36° 04.9' N 126° 26.8' E	Fl.R. period 7s	52 16	5	Red round concrete tower; 33.	
17808 <i>M 4190.5</i>	-S. breakwater.	36° 04.6' N 126° 26.8' E	Fl.G. period 7s	36 11	5	White round concrete structure; 26.	
17812 <i>M 4206.4</i>	Shibidonga Do.	35° 59.4' N 126° 13.4' E	Fl.W. period 7s	299 91	18	White round concrete tower; 16.	
17816 <i>M 4188</i>	Och'ong Do.	36° 07.5' N 125° 58.1' E	Fl.W. period 12s	200 61	26	White round concrete tower; 39.	Visible 341° -224°. Storm signals. Siren: 1 bl. ev. 45s (bl. 5s, si. 40s).
17817 <i>M 4188.3</i>	-W. breakwater.	36° 06.8' N 125° 59.2' E	Fl.G. period 5s	59 18	5	White round concrete tower; 33.	
17817.2 <i>M 4188.7</i>	-E. breakwater.	36° 06.7' N 125° 59.2' E	Fl.R. period 4s	95 29	8	Red round concrete tower; 69.	
17818 <i>M 4188.5</i>	-Kajin So.	36° 06.4' N 125° 59.9' E	Fl.W. period 4s	95 29	8	White round concrete tower; 20.	
	-RACON		T(-)		10		
17820 <i>M 4189.5</i>	Oeyon Do Hang, E. breakwater.	36° 13.4' N 126° 04.9' E	Fl.R. period 4s	36 11	6	Red round structure; 26.	
17821 <i>M 4189.55</i>	-W. breakwater.	36° 13.2' N 126° 04.9' E	Fl.(2)G. period 6s	56 17	5	White round concrete tower; 33.	
17824 <i>M 4189</i>	-Breakwater, head.	36° 06.9' N 125° 59.2' E	Fl.(2)G. period 6s	46 14	5	White round concrete structure; 26.	
17825 <i>M 4189.6</i>	Pulan Do.	36° 13.1' N 126° 06.4' E	Fl.W. period 6s	200 61	8	White round concrete tower; 27.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
17825.5	Hangwon Hang, E. breakwater.	36° 09.5' N 126° 30.4' E	Fl.(2)G. period 6s	52 16	5	White round concrete tower; 36.	
17825.7	-Breakwater.	36° 09.5' N 126° 30.3' E	Fl.(2)R. period 6s	59 18	5	Red round concrete tower; 36.	
17825.9 <i>M 4187.4</i>	Muchangpo.	36° 15.0' N 126° 31.8' E	Q.W.	52 16	8	N. CARDINAL BY, beacon, topmark; 66.	
17826 <i>M 4187.3</i>	Muchangpo Hang, breakwater.	36° 15.0' N 126° 32.1' E	Fl.R. period 6s	52 16	5	Red round concrete tower; 36.	
17827	Kodaedo Hang, breakwater.	36° 23.6' N 126° 22.2' E	Fl.R. period 6s	52 16	5	Red round concrete tower; 36.	
17827.1	Oejanggodo, E.	36° 24.3' N 126° 21.9' E	Fl.(2)W. period 10s	56 17	8	ISOLATED DANGER BRB, beacon, topmark; 49.	
17827.15	Oedo.	36° 27.2' N 126° 18.5' E	Fl.W. period 6s	171 52	8	White round concrete tower; 39.	
17827.5	Oejanggodo.	36° 23.2' N 126° 20.7' E	Fl.G. period 4s	36 11	5	White round tower; 20.	
17827.7	Sapsido, NW.	36° 21.8' N 126° 21.7' E	Fl.R. period 5s	46 14	5	STARBOARD (B) R, beacon, topmark; 60.	
17827.8 <i>M 4185.8</i>	Bapjakdo.	36° 20.6' N 126° 23.6' E	Fl.(2)W. period 5s	39 12	8	ISOLATED DANGER BRB, beacon, topmark; 52.	
17828 <i>M 4189.7</i>	-Nok To.	36° 16.1' N 126° 16.2' E	Fl.R. period 6s	42 13	5	STARBOARD (B) R, beacon, topmark; 26.	
17829 <i>M 4189.74</i>	Chudo.	36° 17.3' N 126° 18.0' E	Fl.G. period 4s	43 13	5	Green round concrete tower, green square daymark; 56.	
17830 <i>M 4189.8</i>	Taehwasa Do.	36° 14.9' N 126° 17.0' E	Fl.W. period 10s	331 101	17	White square concrete tower; 36.	
17831 <i>M 4189.63</i>	Sanghongseo.	36° 16.4' N 126° 20.7' E	Fl.(2)W. period 5s	49 15	8	ISOLATED DANGER BRB, beacon, topmark; 72.	
17831.5 <i>M 4189.735</i>	Otakseo.	36° 21.4' N 126° 14.5' E	Fl.(2)W. period 5s	46 14	8	ISOLATED DANGER BRB, beacon, topmark; 69.	
17832 <i>M 4187</i>	Sonyeoam.	36° 19.2' N 126° 28.4' E	Fl.R. period 4s	46 14	5	STARBOARD (B) R, beacon, topmark; 56.	
	RACON		Q(- - -)		10		
17836 <i>M 4186</i>	T'aech'on Hang, breakwater.	36° 20.0' N 126° 30.9' E	Fl.R. period 6s	56 17	5	Red round concrete tower; 32.	
17838 <i>M 4186.2</i>	-N. breakwater.	36° 19.7' N 126° 30.5' E	Fl.G. period 5s	39 12	5	PORT (B) G, beacon, topmark; 26.	
17839 <i>M 4185.12</i>	-Oejukto.	36° 23.6' N 126° 26.0' E	Fl.R. period 4s	49 15	5	STARBOARD (B) R, beacon, topmark; 59.	
17839.2 <i>M 4185.15</i>	-Ganseo.	36° 23.8' N 126° 26.6' E	Fl.(2)W. period 10s	49 15	8	ISOLATED DANGER BRB, beacon, topmark; 49.	
17839.5 <i>M 4185.4</i>	-Range, front.	36° 24.8' N 126° 29.5' E	F.R.	82 25	4	White square framework tower; 75.	Visible 019° -035° . Radar reflector.
17839.6 <i>M 4185.41</i>	--Rear, 750 meters 027° from front.	36° 25.2' N 126° 29.6' E	F.R.	105 32	4	White square framework tower; 16.	Visible 019° -035° . Radar reflector.
17839.8 <i>M 4184.5</i>	Taeon Bando, SW.	36° 37.3' N 126° 16.9' E	Fl.W. period 6s	56 17	8	White round concrete tower; 56.	
17840 <i>M 4154</i>	Ong Do.	36° 38.9' N 126° 00.5' E	Fl.W. period 15s	246 75	26	White octagonal concrete structure; 46.	Siren: 1 bl. ev. 43s.
	RACON		Z(- - •)		10		
17840.8 <i>M 4154.25</i>	Geomeunyo.	36° 39.2' N 126° 07.1' E	Fl.(2)W. period 5s	62 19	8	ISOLATED DANGER BRB, beacon, topmark; 52.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
17841 <i>M 4154.2</i>	Haengyo.	36° 38.9' N 126° 09.9' E	Fl.(2)W. period 10s	49 15	8	ISOLATED DANGER BRB, tower, topmark; 56.	
17844 <i>M 4184</i>	Kyongnyolbi.	36° 37.4' N 125° 33.6' E	Fl.W. period 10s	351 107	26	White hexagonal concrete structure; 32.	Obscured by Kaori, 299° - 308°.
	RACON		K(- • -)		10		
17848 <i>M 4185</i>	Amma Do.	36° 33.8' N 126° 17.4' E	Fl.G. period 6s	26 8	5	Green round concrete tower; 30.	
17849 <i>M 4154.22</i>	Gauido.	36° 41.0' N 126° 04.5' E	Fl.G. period 5s	49 15	5	PORT (B) G, beacon, topmark; 69.	
17850 <i>M 4154.3</i>	Anhung Shin Hang, N. breakwater.	36° 40.6' N 126° 07.5' E	Fl.G. period 6s	56 17	15	White round concrete tower; 36.	
17851 <i>M 4154.4</i>	-S. breakwater.	36° 40.4' N 126° 07.8' E	Fl.R. period 6s	52 16	5	Red round concrete tower; 33.	
17852 <i>M 4154.5</i>	Anheung Hang, breakwater.	36° 40.7' N 126° 09.4' E	Fl.(2)R. period 6s	52 16	6	Red round concrete structure; 26.	
17853 <i>M 4154.69</i>	Yeoeundol Hang, breakwater.	36° 44.8' N 126° 07.6' E	Fl.G. period 4s	56 17	6	White octagonal concrete tower; 33.	
17853.5 <i>M 4153.3</i>	Heukdo.	36° 43.4' N 125° 56.8' E	Fl.(2)W. period 6s	328 100	8	White metal tower; 66.	
17854 <i>M 4153</i>	Kadae Am.	36° 46.3' N 125° 58.9' E	Q.(3)W. period 10s	49 15	8	E. CARDINAL BYB, tower, topmark; 56.	
	RACON		X(- • • -)		10		
17856 <i>M 4152</i>	Moktok To.	36° 55.5' N 125° 47.3' E	Al.L.Fl.W.R. period 20s	217 66	W. 17 R. 13	White round concrete structure; 19.	
	RACON		Q(- - • -)		10		
17856.5 <i>M 4151</i>	Pan-so.	36° 58.2' N 125° 51.2' E	Fl.(2)W. period 10s	66 20	8	ISOLATED DANGER BRB, beacon, topmark; 75.	
	RACON		G(- - •)		10		
17858 <i>M 4155.1</i>	Chi-do.	37° 03.0' N 125° 58.9' E	Fl.(2)W. period 5s	49 15	8	ISOLATED DANGER BRB, beacon, topmark; 78.	
17860 <i>M 4154.7</i>	-Manripo.	36° 47.0' N 126° 08.0' E	Fl.R. period 6s	42 13	5	Red round concrete tower; 26.	
17862 <i>M 4156.33</i>	-Taeon Hang.	36° 50.8' N 126° 10.6' E	Fl.G. period 5s	36 11	5	Green round concrete tower; 52.	
17863 <i>M 4156.35</i>	Sindo Taseo.	36° 53.7' N 126° 09.0' E	Fl.G. period 6s	52 16	12	PORT (B) G, beacon, topmark; 50.	
	RACON		G(- - •)		12		
17863.2 <i>M 4330.4</i>	Jungnim Hang, breakwater.	34° 50.5' N 128° 34.7' E	Fl.R. period 4s	36 11	5	Red octagonal concrete tower; 27.	
17863.5	Kudo.	36° 55.2' N 126° 11.0' E	Fl.G. period 5s	52 16	5	STARBOARD (B) G, beacon, topmark; 46.	
17864 <i>M 4156</i>	-An Do.	36° 57.3' N 126° 10.2' E	Fl.W. period 10s	141 43	22	White round concrete tower; 59.	
	-RACON		M(- -)		10		
17864.5	Taesang Hang, T'aeon Hwaryok No. 1.	36° 54.8' N 126° 14.7' E	Fl.(4) Y. period 8s	39 12	7	Yellow round steel tower; 15.	
17864.6	-No. 2.	36° 54.8' N 126° 14.0' E	Fl.(4)Y. period 8s	39 12	7	Yellow round steel tower; 15.	Horn: (80 meters SW.) 1 bl. ev. 20s (bl. 5s, sl. 15s).
17865 <i>M 4156.6</i>	-Samsung Seaberth A.	37° 00.3' N 126° 20.6' E	Fl.(4)Y. period 8s	49 15	7	SPECIAL Y, tower; 18.	Horn: 1 bl. ev. 20s (bl. 5s, sl. 15s).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
17865.1 <i>M 4156.65</i>	--B.	37° 00.2' N 126° 20.4' E	Fl.(4)Y. period 8s	46 14	7	SPECIAL Y, tower; 18.	
17865.8	-Samsung Quay A.	37° 00.4' N 126° 21.1' E	Fl.Y. period 6s	20 6	7	Yellow round fiberglass structure; 21.	
17865.9	-B.	37° 00.5' N 126° 21.2' E	Fl.Y. period 6s	20 6	7	Yellow round fiberglass structure; 21.	
17866 <i>M 4156.7</i>	-Taesan Seaberth A.	37° 01.0' N 126° 21.3' E	Fl.Y. period 4s	49 15	7	SPECIAL Y, tower; 22.	
17866.1 <i>M 4156.75</i>	--B.	37° 01.0' N 126° 21.1' E	Fl.Y. period 4s	46 14	7	SPECIAL Y, tower; 22.	Horn: 1 bl. ev. 25s.
17866.2	-Hyundai oil B.	37° 01.2' N 126° 24.3' E	Fl.(2)Y. period 5s	49 15	7	SPECIAL Y, tower; 11.	Horn: 1 bl. ev. 15s.
17867	--A.	37° 01.1' N 126° 24.8' E	Fl.(2)Y. period 5s	36 11	7	SPECIAL Y, tower; 11.	Horn: (500 meters WNW.) 1 bl. ev. 20s.
17867.1 <i>M 4156.97</i>	-Samgilpo Hang, breakwater.	37° 00.4' N 126° 27.1' E	Fl.R. period 6s	59 18	9	Red round concrete tower; 43.	
17868	-Chongkoktu.	36° 53.1' N 126° 10.6' E	Fl.W. period 5s	79 24	15	White round concrete tower; 23.	
17892 <i>M 4155</i>	Ui To.	37° 01.0' N 126° 00.0' E	Fl.W. period 6s	758 231	8	White round concrete tower; 30.	
17893.5 <i>M 4156.58</i>	Daesan Hang.	36° 59.0' N 126° 18.1' E	Fl.R. period 5s	52 16	5	Red round concrete tower; 52.	
17894 <i>M 4156.5</i>	Gain Seo.	37° 00.2' N 126° 18.9' E	Fl.W. period 5s	79 24	8	Round fiberglass tower; 31.	
	RACON		C(- • - •)		10		
17895 <i>M 4149.3</i>	Udu-am.	37° 03.6' N 126° 04.4' E	Fl.(2)W. period 10s	52 16	6	ISOLATED DANGER BRB, beacon, topmark; 56.	
	RACON		Y(- • - -)		10		
17896 <i>M 4157</i>	Changan So.	37° 04.4' N 126° 17.7' E	Fl.(2)W. period 5s	59 18	8	Red round concrete tower, black bands; 69.	
	RACON		G(- - •)		10		Azimuth coverage 137° - 130°.
PYONGTAEK HANG:							
17897 <i>M 4158.598</i>	-Seonggumi Hang.	37° 00.1' N 126° 41.7' E	Fl.R. period 4s	52 16	7	Red round concrete tower; 33.	
17897.5 <i>M 4158.57</i>	-Maehyangni.	37° 01.7' N 126° 44.5' E	Fl.G. period 6s	39 12	6	Green 4-sided metal framework tower; 52.	
17898 <i>M 4158.59</i>	-Pang-do.	37° 00.6' N 126° 43.5' E	Q.(6)+L.Fl.W. period 15s	49 15	8	S. CARDINAL YB, beacon, topmark; 62.	
	-RACON		X(- • • -)		10		
17899 <i>M 4158.601</i>	-Dangjing Hang A.	37° 00.0' N 126° 42.3' E	Fl.(4)Y. period 8s	52 16	7	Yellow 4-sided metal tower; 52.	
17900.5 <i>M 4158.62</i>	--B.	36° 59.5' N 126° 43.3' E	Fl.Y. period 6s	59 18	9	Yellow round metal tower; 33.	
17902 <i>M 4158.64</i>	-Naedo.	36° 59.3' N 126° 43.9' E	Dir.F.W.R.G.	122 37	W. 22 R. 18 G. 18	White tetragonal steel tower; 99.	R. 141° 15' -142° 27' , W.- 145° 21' , G.-146° 33' .
17902.1 <i>M 4158.641</i>	--C.	36° 59.3' N 126° 43.9' E	Fl.(4)Y. period 8s	52 16	8	Yellow round metal tower; 33.	
17903 <i>M 4158.645</i>	-Godaeri.	36° 59.3' N 126° 44.4' E	Fl.R. period 4s	46 14	7	Red round tower; 23.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
17905 <i>M 4158.65</i>	-Dongbu Steel, A.	36° 59.2' N 126° 44.9' E	Fl.(4)Y. period 8s	43 13	9	Yellow round fiberglass tower; 23.	Horn: 1 bl. ev. 30s.
17906 <i>M 4158.662</i>	--B.	36° 59.2' N 126° 45.0' E	Fl.(4)Y. period 8s	52 16	7	Yellow round metal pipe; 33.	
17906.1 <i>M 4158.664</i>	--C.	36° 58.9' N 126° 45.8' E	Fl.(4)Y. period 8s	52 16	7	Yellow round metal pipe; 33.	
17910.6 <i>M 4158.7</i>	-Haenjon, A.	37° 00.1' N 126° 46.7' E	Fl.Y. period 4s	39 12	9	Yellow 4-sided metal tower; 13.	
17910.7 <i>M 4158.71</i>	--B.	37° 00.0' N 126° 46.8' E	Fl.Y. period 6s	39 12	9	Yellow 4-sided metal tower; 13.	Horn: 1 bl. ev. 35s. (bl. 5s, si. 30s).
17911 <i>M 4158.73</i>	-Korea Gas Seaberth, A.	37° 00.0' N 126° 46.8' E	Fl.(2)Y. period 6s	39 12	7	Dolphin; 13.	Horn: 1 bl. ev. 20s. (bl. 5s, si. 15s).
17911.1 <i>M 4158.74</i>	--B.	36° 59.9' N 126° 47.0' E	Fl.(2)Y. period 6s	39 12	7	Dolphin; 13.	
17911.4 <i>M 4158.77</i>	-Petroleum Development Corp., A.	36° 59.9' N 126° 47.1' E	Fl.(4)Y. period 8s	49 15	7	SPECIAL Y, tower, topmark; 16.	Horn: 1 bl. ev. 20s. (bl. 5s, si. 15s).
17911.45 <i>M 4158.78</i>	--B.	36° 59.8' N 126° 47.2' E	Fl.(4)Y. period 8s	49 15	7	SPECIAL Y, tower, topmark; 16.	
17911.5 <i>M 4158.79</i>	--C.	36° 59.7' N 126° 47.2' E	Fl.Y. period 4s	49 15	7	Dolphin; 23.	
17911.6 <i>M 4158.82</i>	-Seaberth, A.	36° 59.7' N 126° 47.3' E	Fl.Y. period 4s	49 15	9	Yellow metal tower on dolphin; 20.	Horn: 1 bl. ev. 50s. (bl. 5s, si. 45s).
17911.7 <i>M 4158.83</i>	--B.	36° 59.6' N 126° 47.5' E	Fl.Y. period 4s	49 15	6	Yellow metal tower on dolphin; 20.	
17911.9 <i>M 4158.81</i>	-SK Gas Berth.	36° 59.6' N 126° 47.7' E	Fl.(4)Y. period 8s	39 12	9	Yellow round tower; 13.	
17912 <i>M 4158.8</i>	-Asan Myoji.	36° 59.7' N 126° 47.7' E	Fl.Y. period 4s	46 14	10	White round concrete tower; 30.	
17912.1 <i>M 4158.92</i>	-W. Docks, W. breakwater.	36° 59.5' N 126° 47.9' E	Fl.(2)G. period 6s	39 12	7	White round concrete tower; 23.	Horn: 1 bl. ev. 20s. (bl. 2s, si. 18s).
17912.2 <i>M 4158.93</i>	--E. breakwater.	36° 59.5' N 126° 48.1' E	Fl.(2)R. period 6s	39 12	7	Red round concrete tower; 23.	
17912.3 <i>M 4158.9</i>	-E. Docks, W. breakwater.	36° 59.3' N 126° 48.6' E	Fl.(4)G. period 8s	39 12	7	White round concrete tower; 23.	
17912.4 <i>M 4158.91</i>	--E. breakwater.	36° 59.2' N 126° 48.8' E	Fl.(4)R. period 8s	39 12	7	Red round concrete tower; 23.	
17912.5 <i>M 4158.86</i>	-Hanjin-gak.	36° 58.9' N 126° 46.8' E	Q.W.	49 15	8	N. CARDINAL BY, tower, topmark; 56.	
17912.6 <i>M 4158.87</i>	-Hanjin.	36° 58.7' N 126° 48.1' E	Q.W.	46 14	8	N. CARDINAL BY, tower, topmark; 59.	
17912.7 <i>M 4158.963</i>	-Hanjin-ri.	36° 57.8' N 126° 48.3' E	Q.(3)W. period 10s	43 13	8	E. CARDINAL BYB, tower, topmark; 52.	
17912.8 <i>M 4158.96</i>	-Yong-am.	36° 58.0' N 126° 49.0' E	Q.(9)W. period 15s	52 16	8	W. CARDINAL YBY, tower, topmark; 46.	
17913 <i>M 4158.95</i>	-N. breakwater.	36° 58.1' N 126° 49.3' E	Fl.R. period 4s	56 17	7	Red round concrete tower; 36.	
17913.1 <i>M 4158.965</i>	-Haengdam-do.	36° 56.9' N 126° 47.9' E	Fl.R. period 6s	39 12	6	Red 4-sided metal framework tower, triangular daymark, point up; 56.	
17913.5 <i>M 4158.97</i>	-Seohae Bridge, W. span.	36° 56.7' N 126° 49.5' E	F.W.	141 43	8	White circular daymark, red stripes.	F.R. 43m 5M and F.G. 43m 4M mark width of navigable span. Fl.Y. 4s 43m 6M mark bridge piers.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
17914 <i>M 4158.975</i>	--E. span.	36° 57.1' N 126° 50.4' E	Iso.W. period 4s	203 62	6	White circular daymark, red stripes.	Iso.R., Iso.G., Iso.Y 4s 62m 6M mark bridge span. Fl.R. and Fl.G. 4s 14m 8M mark bridge piers.
17920 <i>M 4150</i>	Minotan.	37° 07.3' N 125° 55.6' E	Fl.(2)W. period 10s	43 13	8	ISOLATED DANGER BRB, tower; 26.	
17924 <i>M 4155.4</i>	Kakhul To.	37° 07.0' N 126° 01.0' E	Fl.W. period 6s	112 34	8	White round concrete tower; 23.	
17926 <i>M 4160</i>	Haksanso.	37° 07.1' N 126° 31.9' E	Fl.(2)R. period 6s	49 15	7	STARBOARD (B) R, beacon, topmark; 62.	
	RACON		Y(- • - -)		10		
17928 <i>M 4159</i>	Tori Do.	37° 07.0' N 126° 37.0' E	Fl.W. period 6s	190 58	5	White round structure; 30.	
17932 <i>M 4158</i>	Bu Do.	37° 09.0' N 126° 20.8' E	Fl.W. period 15s	125 38	27	White round stone tower; 52.	AIS (MMSI No 004405001). Storm signals. Horn: 1 bl. ev. 40s (bl. 5s, si. 35s).
	RACON		B(- • • •)		10		
17934 <i>M 4163</i>	Tongso.	37° 11.0' N 126° 22.2' E	Fl.G. period 5s	39 12	5	Green round concrete tower; 53.	
17936 <i>M 4158.3</i>	Pungdo.	37° 06.8' N 126° 23.3' E	Fl.W. period 6s	125 38	8	White octagonal concrete tower; 32.	AIS (MMSI No 994401002).
17936.3	-Breakwater.	37° 06.8' N 126° 23.7' E	Fl.(2)R. period 6s	49 15	5	Red round concrete tower; 30.	
17936.5 <i>M 4158.47</i>	-S.breakwater.	37° 06.7' N 126° 23.7' E	Fl.(2)G. period 6s	49 15	8	White round concrete tower; 33.	
17937 <i>M 4161</i>	Mallyukdo.	37° 07.0' N 126° 27.2' E	Fl.W. period 5s	138 42	8	White round tower; 30.	
	RACON		O(- - -)		3		
17938 <i>M 4162.62</i>	Tangjin, 143° 12' .	37° 03.7' N 126° 30.5' E	Dir.F.W.R.G.	105 32	W. 21 R. 18 G. 18	White square steel tower; 85.	R. 140° 24' -141° 24' , W- 144° 54' , G.-145° 54' .
	Range, front.		F.W.	105 32	23		Same structure.
17938.05 <i>M 4162.621</i>	-Rear, 750 meters 143° from front.	37° 03.4' N 126° 30.8' E	F.W.	125 38	23	Green square steel tower; 98.	
17938.1 <i>M 4162.5</i>	Dangjin Power Station Seaberth, A.	37° 04.0' N 126° 30.3' E	Fl.(4)Y. period 8s	56 17	7	Yellow round structure; 23.	
17938.2 <i>M 4162</i>	-B.	37° 03.8' N 126° 30.8' E	Fl.(4)Y. period 8s	59 18	7	Yellow round structure; 23.	
17938.3 <i>M 4162.72</i>	Gukhwado.	37° 03.1' N 126° 32.9' E	Q.(6)+L.Fl.W. period 15s	49 15	8	S. CARDINAL YB, beacon, topmark; 62.	
17938.35 <i>M 4162.75</i>	-Breakwater.	37° 03.6' N 126° 33.6' E	Fl.R. period 6s	43 13	7	Red round metal tower; 39.	
17938.4 <i>M 4162.76</i>	Janggohang.	37° 02.2' N 126° 33.8' E	Fl.R. period 4s	46 14	8	Red round metal pipe; 26.	
17940 <i>M 4158.2</i>	Mudang Seo.	37° 09.2' N 126° 25.1' E	Fl.(2)W. period 5s	39 12	8	ISOLATED DANGER BRB, beacon, topmark; 36.	
	RACON		C(- • - •)		10		
17944 <i>M 4164</i>	-Paek Am, N. edge of reef.	37° 13.6' N 126° 24.6' E	Fl.(2)G. period 6s	59 18	7	PORT (B) G, beacon, topmark; 46.	
	-RACON		Z(- - • •)		10		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
17949 <i>M 4164.25</i>	-Yonghung-Do bridge, center span.	37° 15.3' N 126° 30.4' E	F.W.	92 28	8	Round daymark, red stripes.	F.R. 28m 5M and F.G. 28m 4M mark width of navigable span. Fl.Y. 4s 6M mark piers close E. and W.
17953 <i>M 4164.3</i>	-Chi-do bridge, center span.	37° 14.0' N 126° 32.3' E	F.W.	39 12	8	Round daymark, red stripes.	F.R. 12m 5M and F.G. 12m 4M mark width of navigable span. F.Y. 6M mark piers.
INCH'ON HANG APPROACH:							
17954 <i>M 4165</i>	-Seo Sudo.	37° 19.5' N 126° 23.6' E	Fl.R. period 6s	56 17	7	Red round concrete tower on red building on metal piles; 36.	
	-RACON		K(- • -)		10		
17956 <i>M 4166</i>	Pukchangja Yo.	37° 19.8' N 126° 28.7' E	Fl.(2)W. period 5s	59 18	9	ISOLATED DANGER BRB, beacon, topmark; 46.	AIS (MMSI No 004405009).
	RACON		X(- • • -)		10		
17956.5 <i>M 4164.5</i>	Namjangjaso.	37° 18.8' N 126° 28.9' E	Oc.R. period 4s	59 18	7	STARBOARD (B) R, tower, topmark; 49.	
17957 <i>M 4170.43</i>	-Sorae Pogu, Korea Gas, A.	37° 20.3' N 126° 34.9' E	Fl.(4)Y. period 8s	39 12	7	Yellow round fiberglass tower; 13.	Horn: 1 bl. ev. 50s (bl. 5s, si. 45s).
17957.1 <i>M 4170.44</i>	--B.	37° 20.3' N 126° 35.2' E	Fl.(4)Y. period 8s	39 12	7	Yellow round fiberglass tower; 13.	
17957.2 <i>M 4170.6</i>	---Jetty.	37° 20.7' N 126° 36.1' E	Fl.G. period 4s	33 10	6	White round fiberglass tower; 13.	
17957.4 <i>M 4170.5</i>	--Hanguk Gas, C.	37° 20.3' N 126° 35.3' E	Fl.Y. period 6s	39 12	7	Yellow round fiberglass tower; 13.	Horn: 1bl. ev. 30s (bl. 5s, si. 25s).
17957.5 <i>M 4170.45</i>	---D.	37° 20.3' N 126° 35.6' E	Fl.Y. period 6s	39 12	7	Yellow round fiberglass tower; 13.	
17957.6	Korean Gas Wharf A.	37° 20.3' N 126° 36.4' E	Fl.(4)Y. period 8s	52 16	7	Yellow steel tower; 26.	
17957.7	-B.	37° 20.3' N 126° 36.6' E	Fl.(4)Y. period 8s	52 16	7	Yellow steel tower; 26.	Horn: 1 bl. ev. 20s (bl. 5s, si. 15s).
17960 <i>M 4167</i>	-P'almi Do.	37° 21.5' N 126° 30.7' E	Fl.W. period 10s	279 85	27	White round concrete structure; 85.	AIS (MMSI No 004405000). Horn: 1 bl. ev. 30s (bl. 5s, si. 25s). Storm signal.
17960.1 <i>M 4167.4</i>	-Haerido.	37° 21.7' N 126° 26.5' E	Fl.G. period 6s	69 21	8	White round concrete tower; 59.	Visible 227° -126°.
17961 <i>M 4167.3</i>	-Paedangcha.	37° 22.8' N 126° 27.2' E	Fl.(2)W. period 5s	43 13	8	ISOLATED DANGER BRB, beacon, topmark; 41.	
INCH'ON HANG:							
17961.1 <i>M 4170.64</i>	-Inchon Grand Bridge, W. span.	37° 25.0' N 126° 33.7' E	Q.W.	220 67	5	Red circular daymark, white stripes.	Iso.Y. 4s 6M mark piers and span. Collision prevention lights.
			Q.R.	226 69	5	Red cone daymark.	
			Q.G.	210 64	5	Green square daymark.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
17961.15 <i>M 4170.65</i>	--Center span.	37° 24.8' N 126° 34.0' E	Q.W.	256 78	5	Red circular daymark, white stripes.	
			Q.R.	240 73	5	Red cone daymark.	
			Q.G.	240 73	5	Green square daymark.	
17961.2 <i>M 4170.66</i>	--E. span.	37° 24.7' N 126° 34.3' E	Q.W.	220 67	5	Red circular daymark, white stripes.	Iso.Y. 4s 6M mark piers and span. Collision prevention lights.
			Q.R.	210 64	5	Red cone daymark.	
			Q.G.	226 69	5	Green square daymark.	
17962 <i>M 4170.92</i>	-Seaberth, A.	37° 26.0' N 126° 36.5' E	Fl.(2)Y. period 6s	39 12	7	Yellow metal tower; 13.	Horn: 1 bl. ev. 50s (bl. 5s, si. 45s).
17962.5 <i>M 4170.94</i>	--B.	37° 26.0' N 126° 36.6' E	Fl.(2)Y. period 6s	49 15	7	Yellow metal tower; 23.	
17962.7 <i>M 4170.9</i>	-Tongyang Cement Berth.	37° 26.0' N 126° 36.7' E	Fl.Y. period 5s	36 11	7	Yellow round fiberglass tower; 13.	Horn: 1 bl. ev. 30s (bl. 5s, si. 25s).
17962.8 <i>M 4172.16</i>	-Ssangyong Cement Berth, A.	37° 26.3' N 126° 36.7' E	Fl.(4)Y. period 8s	52 16	7	SPECIAL Y, tower, topmark; 13.	Horn: 1 bl. ev. 20s (bl. 5s, si. 15s).
17962.9 <i>M 4172.18</i>	--B.	37° 26.3' N 126° 36.8' E	Fl.(4)Y. period 8s	52 16	7	SPECIAL Y, tower, topmark; 13.	
17962.95 <i>M 4172.153</i>	-Inchon Namhang, A.	37° 26.3' N 126° 35.7' E	Fl.(4)Y. period 8s	36 11	7	Yellow round fiberglass tower; 13.	
17962.96 <i>M 4172.155</i>	--B.	37° 26.3' N 126° 36.1' E	Fl.(3)Y. period 7s	36 11	7	Yellow post; 13.	
17963 <i>M 4171</i>	-Coal Wharf, A.	37° 26.3' N 126° 35.2' E	Fl.Y. period 7s	49 15	20	SPECIAL Y, tower, topmark; 30.	AIS (MMSI No 004405005).
17963.5 <i>M 4171.2</i>	--B.	37° 26.5' N 126° 35.2' E	Fl.Y. period 5s	46 14	7	SPECIAL Y, tower, topmark; 26.	
17964.1 <i>M 4171.5</i>	-Dolphin.	37° 26.6' N 126° 35.5' E	Fl.(4)Y. period 8s	36 11	7	Yellow metal post; 13.	
17964.5 <i>M 4172.1</i>	-S. K Seaberth.	37° 26.7' N 126° 35.5' E	Fl.Y. period 4s	39 12	7	SPECIAL Y, sphere, topmark; 13.	
17965 <i>M 4172.15</i>	-Ssangyong.	37° 27.0' N 126° 35.5' E	Fl.Y. period 4s	52 16	7	SPECIAL Y, tower, topmark; 10.	Private light.
17965.5 <i>M 4173.3</i>	-E. breakwater.	37° 27.3' N 126° 35.5' E	Fl.R. period 5s	59 18	9		
17966 <i>M 4173.35</i>	-International Ferry Wharf, A.	37° 27.3' N 126° 35.6' E	Fl.(2)Y. period 6s	33 10	7	Yellow metal tower; 16.	
17966.5 <i>M 4173.36</i>	--B.	37° 27.3' N 126° 35.7' E	Fl.(2)Y. period 6s	33 10	7	Yellow quadrangular metal tower; 16.	
17967 <i>M 4173.4</i>	-Sowolmi-do, S. breakwater.	37° 27.4' N 126° 35.7' E	Fl.G. period 5s	66 20	5	White round concrete tower; 49.	
17967.5 <i>M 4173.5</i>	--Head.	37° 27.7' N 126° 35.5' E	Fl.(3)R. period 7s	46 14	9	Red octagonal concrete tower; 30.	
17968 <i>M 4173.52</i>	--N. breakwater, head.	37° 27.8' N 126° 35.5' E	Fl.(3)G. period 7s	46 14	5	White octagonal concrete tower; 30.	
17968.5 <i>M 4173.6</i>	-Lock Gate, S. breakwater.	37° 27.9' N 126° 35.6' E	Fl.R. period 5s	52 16	18	Red square concrete structure; 30.	Fl.W., Fl.R., Fl.G. mark W. end of Lock complex.
17969 <i>M 4173.8</i>	--N. breakwater.	37° 28.1' N 126° 35.7' E	Fl.G. period 5s	39 12	17	White octagonal concrete structure; 30.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
17969.5 M 4175	-Inner Harbor, Korea TBT, head.	37° 28.4' N 126° 36.6' E	Fl.Y. period 4s	30 9	7	SPECIAL Y, tower, topmark; 10.	
17970 M 4174.5	--Taehan Silo, head.	37° 28.4' N 126° 36.6' E	Fl.Y. period 6s	30 9	7	SPECIAL Y, tower, topmark; 10.	
17970.5 M 4175.2	-Hojeong, A.	37° 28.6' N 126° 35.7' E	Fl.Y. period 6s	52 16	18	SPECIAL Y, tower, topmark; 10.	Horn.
17971 M 4175.4	--B.	37° 28.7' N 126° 35.7' E	Fl.Y. period 8s	52 16	18	SPECIAL Y, tower, topmark; 10.	
17971.5 M 4174	-Sodu Am.	37° 28.9' N 126° 35.8' E	Fl.R. period 4s	52 16	5	Red round concrete tower; 52.	
17972 M 4176	-Chagyak To.	37° 29.8' N 126° 35.4' E	Fl.W. period 10s	190 58	17	White octagonal concrete tower; 66.	
17973 M 4176.3	-Inchon Hang.	37° 29.7' N 126° 36.3' E	Fl.W. period 5s	39 12	8	White round concrete tower; 23.	
	-RACON		Q(- - • -)		10		
17976 M 4176.5	-Air Seaberth, A.	37° 29.9' N 126° 36.2' E	Fl.(4)Y. period 8s	43 13	7	Yellow fiberglass tower; 16.	Horn: 1 bl. ev. 20s (bl. 5s, si. 15s).
17980 M 4176.7	--B.	37° 30.0' N 126° 36.2' E	Fl.Y. period 6s	43 13	7	Yellow fiberglass tower; 16.	Horn: 1 bl. ev. 43s. 90 meters N. of light.
17983 M 4177	-Inchon Oil Refinery, E.	37° 30.3' N 126° 36.2' E	Fl.(4)Y. period 8s	43 13	7	Yellow square metal tower; 13.	
17984 M 4178	--A.	37° 30.3' N 126° 36.2' E	Fl.Y. period 4s	26 8	7	SPECIAL Y, tower, topmark; 13.	
17988 M 4178.4	--B.	37° 30.4' N 126° 36.1' E	Fl.Y. period 6s	26 8	7	SPECIAL Y, tower, topmark; 13.	Horn: 1 bl. ev. 30s (bl. 5s, si. 25s).
17989 M 4178.5	--C.	37° 30.5' N 126° 36.1' E	Fl.(3)Y. period 7s	33 10	7	SPECIAL Y, tower, topmark; 20.	
17990 M 4178.6	--D.	37° 30.6' N 126° 36.1' E	Fl.(2)Y. period 6s	33 10	7	SPECIAL Y, tower, topmark; 20.	
17992 M 4179.2	-Hwaryok, A.	37° 30.6' N 126° 36.1' E	Fl.Y. period 4s	36 11	7	SPECIAL Y, tower, topmark; 13.	Horn: 1 bl. ev. 20s (bl. 2s, si. 18s).
17996 M 4179	--B.	37° 30.8' N 126° 36.1' E	Fl.Y. period 6s	36 11	7	SPECIAL Y, tower, topmark; 13.	
18033 M 4180	Yeongjongdo Bridge.	37° 32.7' N 126° 35.0' E	F.W.	128 39	7	White circular daymark, red stripes.	F.R. 39m 7M and F.G. 39m 7M mark width of navigable span. Fl.Y. 4s 10m 7M mark piers.
	RACON		C(- • - •)		10		
18035 M 4146.58	Sinsidoyeondo Bridge.	37° 31.8' N 126° 26.1' E	F.W.	23 7	7	White circular daymark, red stripes.	F.R. 7m 5M and F.G. 7m 5M mark width of navigable span. F.Y. 7m 6M mark piers.
18040 M 4148	-Sonmi Do.	37° 17.2' N 126° 04.6' E	Fl.W. period 12s	541 165	18	White round concrete structure; 31.	Visible 351° -281°.
18044 M 4155.6	-Seongab Do.	37° 05.4' N 126° 05.1' E	Fl.W. period 5s	164 50	8	White structure; 29.	
18048 M 4149	-Tokchok Pukni, breakwater.	37° 15.0' N 126° 07.0' E	Fl.R. period 4s	49 15	6	Red round concrete tower; 24.	
18049	-S.	37° 12.8' N 126° 05.5' E	Fl.(2)W. period 10s	43 13	8	ISOLATED DANGER BRB, beacon, topmark; 59.	
18050	Soyari.	37° 13.3' N 126° 09.6' E	Fl.R. period 4s	39 12	5	STARBOARD (B) R, beacon, topmark; 40.	
18051 M 4149.1	Dohang Sudo.	37° 13.8' N 126° 10.2' E	Fl.(2)R. period 6s	49 15	5	Red round concrete tower; 52.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH KOREA							
18052 <i>M 4168.5</i>	Soya Do.	37° 12.4' N 126° 11.7' E	Fl.W. period 4s	79 24	8	White octagonal concrete tower; 32.	
18056 <i>M 4168</i>	-Tongbaek To.	37° 11.8' N 126° 12.6' E	Fl.W. period 5s	115 35	11	White round concrete structure; 30.	
	-RACON		Q(- - • -)				
18060 <i>M 4170</i>	-Ijak To.	37° 10.8' N 126° 15.3' E	Fl.G. period 4s	49 15	5	Green round concrete tower; 46.	
18062 <i>M 4170.4</i>	-Kwangyo.	37° 10.1' N 126° 17.3' E	Fl.R. period 5s	43 13	5	STARBOARD (B) R, beacon, topmark; 52.	
18063	-Haejonso.	37° 10.8' N 126° 17.9' E	Fl.(2)W. period 10s	39 12	8	ISOLATED DANGER BRB, beacon, topmark.	
18063.5 <i>M 4163.5</i>	-Wolamdu, on islet.	37° 14.0' N 126° 19.2' E	Fl.R. period 5s	33 10	6	STARBOARD (B) R, beacon, topmark; 46.	
18063.7	-Chawolto.	37° 13.4' N 126° 21.3' E	Fl.(3)G. period 7s	39 12	5	PORT (B) G, beacon, topmark; 53.	
	-RACON		M(- -)		10		
18064 <i>M 4169</i>	-Mukt'ong Do.	37° 16.0' N 126° 17.0' E	Fl.W. period 6s	85 26	8	White round concrete structure; 31.	
18068 <i>M 4169.5</i>	Sochochi Do.	37° 19.0' N 126° 17.0' E	Fl.W. period 4s	89 27	8	White square concrete tower; 28.	
18069	-Chociam.	37° 19.5' N 126° 13.5' E	Fl.(2)W. period 5s	46 14	8	ISOLATED DANGER BRB, beacon, topmark; 49.	
18076 <i>M 4146</i>	-Sin Do.	37° 30.0' N 126° 03.0' E	Fl.W. period 6s	161 49	8	White round concrete tower; 20.	
18076.5	Songmodo.	37° 45.9' N 126° 20.5' E	Fl.R. period 6s	39 12	5	STARBOARD (B) R, beacon; 63.	
18077 <i>M 4146.5</i>	-Soiyo.	37° 36.1' N 126° 15.2' E	Fl.(2)W. period 5s	43 13	8	ISOLATED DANGER BRB, beacon, topmark; 46.	
NORTH KOREA							
18080 <i>M 4145</i>	-Soyonpyong.	37° 36.0' N 125° 43.0' E	Fl.(2)W. period 6s	128 39	7	White round concrete tower; 20.	Visible 224° -122°.
18083	Nounso.	37° 34.8' N 125° 43.0' E	Fl.(2)W. period 10s	52 16	8	ISOLATED DANGER BRB, beacon, topmark; 52.	
18087 <i>M 4137.2</i>	--Yonpang, S. breakwater.	37° 39.4' N 125° 42.8' E	Fl.G. period 6s	43 13	5	White octagonal concrete tower; 30.	
18088 <i>M 4137.4</i>	--E. breakwater, head.	37° 39.5' N 125° 42.8' E	Fl.R. period 6s	49 15	5	Red round concrete structure; 19.	
	HAEJU MAN:						
18093 <i>M 4138</i>	-Haricho.	37° 45.7' N 125° 38.2' E	Fl.W. period 12s	30 9	5	Red round concrete tower; 56.	Seasonal.
18094 <i>M 4139</i>	-Pupo Hang.	37° 48.0' N 125° 37.4' E	F.R.		2		
18096 <i>M 4140</i>	-Jincho.	37° 48.4' N 125° 43.2' E	Fl.W. period 12s	30 9	5	Black round concrete structure; 55.	Seasonal.
18103 <i>M 4135.8</i>	Yonggipo Hang, outer breakwater, S. head.	37° 57.2' N 124° 44.4' E	Fl.R. period 5s	49 15	8	Red round concrete tower; 30.	

The existence and operation of all navigational aids should be considered unreliable on the west coast of North Korea.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
NORTH KOREA							
18103.1 <i>M 4135.85</i>	-Inner breakwater, head.	37° 57.2' N 124° 44.3' E	Fl.G. period 5s	49 15	9	White round concrete tower; 30.	
18104 <i>M 4136</i>	Soch'ong Do.	37° 45.6' N 124° 43.8' E	Fl.(4)W. period 40s 4 fl. 20s, ec. 20s	328 100	19	White round concrete tower; 59.	Visible 254° -205° . Siren: 1 bl. ev. 45s. (bl. 5s, si. 40s).
	RACON		K(- • -)		10		
18105	Monggumpo.	38° 11.3' N 124° 47.1' E	Fl.(2)W. period 30s	141 43	20		Siren.
18106	Oryuji Gi.	38° 20.7' N 124° 51.4' E	Fl.W. period 15s		15		
TAEDONG GANG:							
18112 <i>M 4116</i>	-So Do.	38° 32.9' N 124° 45.9' E	Fl.W. period 20s	308 94	15	White round concrete structure; 31.	Visible 346° -268° .
18116 <i>M 4118</i>	-Chamae Do.	38° 40.8' N 124° 58.6' E	Fl.W. period 18s	138 42	17	White round concrete structure; 31.	Visible 359° -279° . Horn.
18118 <i>M 4117.5</i>	-Kuro Iso.	38° 35.6' N 124° 57.5' E	Fl.W. period 9s	26 8	5		
18118.5	-Huibonggang, SE. point of Chodo.	38° 30.4' N 124° 53.7' E	Fl.W. period 3s	118 36	10	White octagonal concrete tower; 29.	
18119 <i>M 4117</i>	-Songmun Am.	38° 30.5' N 124° 54.4' E	Fl.W. period 10s		5		
18120 <i>M 4119</i>	-Toku Somu.	38° 45.2' N 124° 58.2' E	Fl.W. period 15s	302 92	10		
18124 <i>M 4120</i>	-Ch'an Do.	38° 40.9' N 125° 07.0' E	Fl.W. period 15s	124 38	10	White round concrete structure; 18.	Visible 040° -308° . Seasonal.
18128 <i>M 4122</i>	-Chiri Do, on islet.	38° 42.0' N 125° 08.5' E	Fl.W. period 12s	66 20	10	White octagonal concrete structure; 25.	Seasonal.
18132 <i>M 4126</i>	-P' i Do.	38° 40.9' N 125° 10.6' E	Fl.(2)W. period 3s	282 86	25	White square concrete tower; 108.	
18136 <i>M 4128</i>	-Orip'o-ri, on point.	38° 39.4' N 125° 13.5' E	F.W.	118 36	5	White concrete structure; 23.	
18148 <i>M 4132</i>	-Namp'o, Bu Pibalto.	38° 43.2' N 125° 24.6' E	Fl.W. period 9s	85 26	4	Framework tower on white hexagonal concrete structure; 36.	
18149	-Taegamdo.	39° 28.6' N 125° 06.8' E	Fl.W. period 12s		6		
YALU RIVER:							
18152 <i>M 4113</i>	-Nap To, on islet.	39° 16.1' N 124° 43.0' E	Fl.W. period 5s		6		
18156 <i>M 4112</i>	-Taehwa Do.	39° 26.3' N 124° 35.4' E	Fl.W. period 20s	312 95	20	White hexagonal iron framework structure; 79.	Visible 324° -188° .
18160 <i>M 4104</i>	-Suun Do, in E. channel of Yalu River entrance.	39° 41.2' N 124° 24.6' E	Fl.W. period 10s	157 48	12	White round concrete structure; 26.	Visible 345° -189° .
18164 <i>M 4105</i>	-Un Do (Un To), summit of island.	39° 43.7' N 124° 24.2' E	Fl.(2)W. period 6s 2 fl. 1.5s, ec. 4.5s	83 25	13	White square concrete structure; 22.	
18166 <i>M 4106</i>	-Munbakdo.	39° 49.4' N 124° 20.5' E	Fl.W. period 3s		6		Seasonal.

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(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
NORTH KOREA							
18168 <i>M 4107</i>	-Sampo.	39° 56.0' N 124° 21.0' E	Iso.W. period 6s	203 62	12	Red hexagonal brick structure; 33.	
18176 <i>M 4100</i>	-Maan Do, in W. channel of Yalu River.	39° 48.1' N 124° 11.3' E	Fl.W. period 5s	237 72	10	White round brick structure; 26.	Visible 282° -241° . Discontinued during winter, when Yalu River is closed.

The existence and operation of all navigational aids should be considered unreliable on the west coast of North Korea.

Section 11

China

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
18208 <i>F 4067</i>	Guanglu Dao.	39° 10.1' N 122° 25.5' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	292 89	11	White round concrete tower.	
18210 <i>F 4068.1</i>	Jiaoliu Dao.	39° 16.5' N 122° 42.7' E	Fl.R. period 6s	82 25	10	White square tower; 26.	
18211 <i>F 4066.5</i>	Haiyang Dao.	39° 04.1' N 123° 08.9' E	Fl.W. period 5s	200 61	12	White round concrete tower; 43.	Siren: 1 bl. ev. 80s (bl. 40s, si. 40s).
	RACON		K(- • -)				
18212 <i>F 4064</i>	Yuan Dao.	38° 40.5' N 122° 09.8' E	Fl.W. period 15s	215 66	20	White round concrete structure; 66.	Reserve light Fl.W. 5s 10M.
	RACON		B(- • • •)				
18216 <i>F 4062</i>	Yu Yan.	38° 34.2' N 121° 38.4' E	Fl.W. period 4s fl. 1.5s, ec. 2.5s	65 20	14	White round concrete tower; 52.	
	RACON		Z(- - • •)				
18220 <i>F 4058</i>	Dasanshan Dao.	38° 51.9' N 121° 49.6' E	Fl.W. period 10s	266 81	23	White round stone structure; 39.	Visible 248° -158° . Reserve light range 10M. Siren: 4 bl. ev. 30s. Radiobeacon.
18222 <i>F 4060</i>	Xian Jiao.	38° 57.8' N 121° 59.2' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	82 25	15	White concrete column, red bands; 52.	
	RACON		O(- - -)				
18225 <i>F 4065</i>	Nandaquan.	39° 01.1' N 121° 54.9' E	Fl.(2)W. period 10s	187 57	20	White square concrete tower; 72.	
18225.3 <i>F 4065.3</i>	Dayao Wan, N. entrance, N. head.	39° 00.7' N 121° 54.6' E	Iso.G. period 6s	66 20	12	White concrete column, black bands; 66.	
18225.5 <i>F 4065.4</i>	-S. head.	39° 00.5' N 121° 54.5' E	Iso.R. period 6s	66 20	10	White concrete column; 66.	
18226 <i>F 4066</i>	Dayao Wan, S. breakwater, head.	39° 00.1' N 121° 54.0' E	Fr.R.	85 26	12	Round concrete pile, red and white stripes; 72.	Channel marked by buoys.
18226.2 <i>F 4065.5</i>	-N. breakwater.	39° 00.2' N 121° 54.2' E	Fl.G. period 5s	66 20	10	White round concrete tower; 20.	
18227 <i>F 4059.2</i>	Dalian Gang, Oil Pier.	38° 59.0' N 121° 53.8' E	Fr.R.	39 12			
18228 <i>F 4059</i>	Shatuozi.	38° 58.1' N 121° 54.3' E	Fl.W. period 6s	120 37	18	White round concrete tower; 121.	
	RACON		Y(- • - -)				
18229 <i>F 4059.3</i>	Daliangangxin Gang, Oil Terminal.	38° 58.6' N 121° 54.2' E	F.G.	52 16	2	White triangular framework structure; 56.	
18231 <i>F 4059.5</i>	-Operations Pier.	38° 58.3' N 121° 53.9' E	Fr.R.	33 10	8	White round concrete structure; 33.	
18232 <i>F 4059.12</i>	LNG pier, No. 10.	38° 57.5' N 121° 53.3' E	Iso.G. period 8s	52 16	8	Green pole; 26.	
18232.1 <i>F 4059.13</i>	-No. 1.	38° 57.3' N 121° 53.0' E	Iso.R. period 8s	52 16	8	Red pole; 26.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
18233 F 4059.18	Bulk Cargo Pier, head.	38° 56.8' N 121° 52.3' E	F.R.	26 8	14	White metal tower, red bands; 33.	
18233.5 F 4058.4	Fujiadahua Chemical Industry Pier, head.	38° 56.5' N 121° 51.3' E	Iso.G. period 4s	52 16	7	White pillar, black bands; 33.	
18234 F 4058.5	Jiucaituozi.	38° 57.0' N 121° 52.0' E	Fl.(2)W. period 6s	59 18	7	White round concrete tower; 26.	
18234.05 F 4058.2	Dagushan Wan, Dayang Jetty.	38° 57.9' N 121° 49.7' E	Iso.R. period 4s	39 12	8	White pillar, red bands; 26.	
18234.1 F 4053	Beiliang Gang, Oil Pier, breakwater, head.	38° 58.7' N 121° 47.8' E	Fl.(2)W. period 10s	52 16	8	White fiberglass tower, black bands; 33.	
18235.2 F 4053.2	-Grain pier.	38° 58.7' N 121° 48.3' E	F.R.	30 9	7	White fiberglass tower, red bands; 20.	
18235.3 F 4056	-Breakwater, head.	38° 58.3' N 121° 48.1' E	F.G.	98 30	10	White fiberglass tower, red bands; 66.	
DALIAN GANG:							
18236 F 4010	-Huangbai Zui.	38° 54.2' N 121° 42.9' E	Al.W.R. period 10s	312 95	W. 20 R. 10	White concrete tower; 51.	Visible 122° -007° .
18238 F 4012	-Zhongyue Pier, head.	38° 54.9' N 121° 42.1' E	F.G.		3	White beacon.	
18240 F 4016	-Jijiko Oil Pier No. 1, N. head.	38° 55.3' N 121° 41.0' E	F.G.	49 15	4	White square concrete post; 38.	
18244 F 4018	--Pier No. 2.	38° 55.2' N 121° 41.4' E	F.R.	49 15	8	White round concrete structure; 36.	
18246 F 4018.6	-Fuel supply pier.	38° 55.9' N 121° 40.2' E	F.G.	62 19	7	Grey metal framework tower; 46.	
18256 F 4022	-Dagang Qu, E. entrance, N. side.	38° 56.3' N 121° 40.2' E	Iso.W. period 12s	43 13	5	Round stone pile; 43.	
18260 F 4020	--S. side.	38° 56.1' N 121° 40.1' E	Iso.R. period 12s	36 11	6	Round stone tower; 43.	
18264 F 4026	--N. entrance, E. side.	38° 56.7' N 121° 38.8' E	F.R.	62 19	6	White round concrete pile; 62.	
18268 F 4028	---W. side.	38° 56.3' N 121° 38.2' E	F.R.	66 20	6	White square concrete pile; 62.	
18272 F 4030	--W. entrance, N. side.	38° 56.3' N 121° 38.2' E	F.R.	36 11	4	White round concrete pile; 30.	
18276 F 4032	---S. side.	38° 56.3' N 121° 38.2' E	F.W.	36 11	6	White round concrete pile; 27.	
18277 F 4033	--Inner spur.	38° 56.2' N 121° 38.3' E	F.G.	30 9	8	White round concrete structure; 27.	
18279 F 4045	-Fuel pier.	38° 58.1' N 121° 39.1' E	F.R.	46 14	6	White round metal pile; 36.	
18279.1 F 4045.22	-Ganjingzi Oil Wharf.	38° 58.0' N 121° 39.7' E	Iso.W. period 4s	52 16	8	White fiberglass tower, black bands; 33.	
18280 F 4044	-Ganjingzi Big Wharf.	38° 57.5' N 121° 38.5' E	F.G.	39 12	6	White square iron framework tower; 40.	
18282 F 4043	--E. jetty.	38° 57.5' N 121° 38.0' E	F.W.	42 13	5	White round metal pile.	
18283 F 4045.23	-Liaohaixun, breakwater, head.	39° 00.5' N 121° 40.4' E	Iso.W. period 4s	39 12	8	Black and white fiberglass structure; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
18286	-Heshing Dao, No. 11.	38° 59.1' N 121° 46.3' E	FI.G. period 4s			STARBOARD (A) G, pillar, topmark.	
	-RACON		G(— — •)				
18287 F 4047.3	-Breakwater, head.	39° 00.9' N 121° 45.1' E	F.R.	23 7	6	White concrete structure; 20.	
18312 F 3986	Laotieshan Xijiao.	38° 43.8' N 121° 08.0' E	FI.(2)W. period 30s	328 100	25	White round iron structure; 46.	Visible 282° -178°. Reserve light Fl.W. 4s 10M. Radiobeacon.
	RACON		M(— —)				
18316 F 4011	Xiaolongshan Dao.	38° 57.2' N 120° 58.5' E	Fl.W. period 5s	226 69	15	White round concrete tower; 28.	Visible 342° -227°.
18334 F 3983	Changxing Dao.	39° 31.4' N 121° 13.8' E	Fl.W. period 25s	653 199	25	White round concrete tower; 33.	Visible 354° -200°. Reserve light range 10M.
18334.3	Dagushan.	39° 51.6' N 121° 32.4' E	Fl.W. period 20s	259 79	20	Red and white concrete structure; 64.	Reserve light Fl.(3)W. 20s 12M
18334.6	Taiping Jiao.	40° 01.6' N 121° 49.6' E	Fl.W. period 15s	115 35	20	White concrete structure; 42.	
18334.61 F 3979.44	Xianren Dao, N. breakwater.	40° 13.2' N 121° 56.9' E	Oc.R. period 6s lt. 4s, ec. 2s	46 14	5	Red and white concrete column; 40.	
18334.62 F 3979.45	-S. breakwater.	40° 12.6' N 121° 57.1' E	Oc.G. period 6s lt. 4s, ec. 2s	56 17	7	White concrete column, green bands; 46.	
	-RACON		Y(— • — —)				
BAYUQUAN GANG:							
18334.7 F 3979	-Approach channel Range, front.	40° 17.2' N 122° 05.3' E	F.W.	69 21	10	Orange triangular daymark on orange and white pile; 82.	S. limit marked by F.G. lights in line. N. limit marked by F.R. lights in line. Reserve light F.W. 8M. AIS (MMSI No 994131201).
18334.71 F 3979.1	--Rear, 1740 meters 097° 24' from front.	40° 16.8' N 122° 07.4' E	F.W.	157 48	10	Orange and white beacon, triangular topmark, point down; 147.	Reserve light F.W. 10M.
18334.75 F 3979.15	-N. breakwater.	40° 17.4' N 122° 04.9' E	Q.R.	30 9	4	White round structure; 38.	
18334.8 F 3979.2	-W. breakwater, N. head.	40° 17.2' N 122° 04.8' E	Q.G.	30 9	4	White concrete structure.	
18335 F 3978	Taizi Shan.	40° 17.7' N 122° 06.4' E	Fl.W. period 10s	430 131	25	Yellow concrete tower; 69.	Reserve light range 7M.
18336 F 3970	YINGKOU LIGHTSHIP.	40° 31.1' N 121° 59.0' E	Fl.W. period 12s	36 11	10	Red hull, name painted on sides.	
	RACON		Y(— • — —)				
YING KOU:							
18338 F 3970.5	-Turning beacon.	40° 35.8' N 122° 09.3' E	F.W.	52 16	8	Black framework structure, ball topmark; 62.	
18340 F 3950.71	-Bar Range, front.	40° 35.7' N 122° 09.6' E	F.W.	56 17	8	Black framework structure, triangular topmark, point up; 73.	Turning lights.
18344 F 3971.1	--Rear, 950 meters 061° from front.	40° 36.0' N 122° 10.2' E	F.W.	105 32	8	Black framework structure, triangular topmark, point down; 106.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
18348 <i>F 3971.9</i>	-Inner Channel Range, front.	40° 37.5' N 122° 08.8' E	F.R.	46 14	7	Black framework structure triangular topmark, point up; 59.	Forms range 040° 15' with common rear. Visible 027° -057° .
18352 <i>F 3972</i>	--Common rear.	40° 37.9' N 122° 09.2' E	F.R.	95 29	7	Black framework structure, triangular topmark, point down; 95.	Visible 035° -185° .
18353 <i>F 3972.1</i>	---No. 4 Range, front.	40° 38.1' N 122° 09.2' E	F.R.	62 19	4	Black framework structure, triangular topmark, point up; 66.	Forms range 173° 20' with common rear. Visible 099° -189° .
18355 <i>F 3972.15</i>	-Paotai beacon.	40° 39.3' N 122° 09.8' E	Q.G.		4		
18358 <i>F 3972.3</i>	Xishiba beacon.	40° 39.3' N 122° 08.5' E	Fl.R. period 4s				
18373 <i>F 3972.5</i>	-W. channel Range, front.	40° 40.9' N 122° 08.4' E	F.W.	52 16	8	Black framework structure, triangular daymark, point up; 59.	
18374 <i>F 3972.51</i>	--Rear, 650 meters 014° 45' from front.	40° 41.3' N 122° 08.5' E	F.W.	85 26	8	Black framework structure, triangular daymark, point down; 92.	
18375 <i>F 3975</i>	-Zaomu Gou.	40° 41.9' N 122° 08.5' E	Fl.W. period 4s	36 11	4	Black steel framework structure; 33.	
18376 <i>F 3976</i>	-W. Channel Range No. 2, front.	40° 42.2' N 122° 08.7' E	F.R.	43 13	4	Black framework tower, black triangular daymark, point up; 39.	
18377 <i>F 3976.1</i>	--Rear, 160 meters 353° 20' from front.	40° 42.3' N 122° 08.7' E	F.R.	56 17	4	Black framework tower, black triangular daymark, point down; 52.	
18378 <i>F 3977</i>	-Yongyuau Jiao.	40° 42.7' N 122° 09.9' E	Fl.W. period 6s	36 11	4	Black steel framework structure; 33.	
18380	Huludao Jiao.	40° 42.9' N 121° 01.3' E	Fl.(2)W. period 12s	423 129	18		
18382	Jinzhou Gang Range, front.	40° 48.7' N 121° 03.9' E	F.W.	138 42	12	White beacon, round daymark.	Channel marked by lighted port and starboard buoys.
18382.1	-Rear, 1820 meters 005° 41' from front.	40° 49.7' N 121° 04.0' E	Fl.W. period 4s	240 73	12	White beacon, round daymark.	
18383 <i>F 3966.5</i>	Basin No. 5 Range, front.	40° 47.8' N 121° 04.6' E	F.R.	79 24	6		
18383.1 <i>F 3966.51</i>	-Rear, 110 meters 060° from front.	40° 47.9' N 121° 04.7' E	F.R.	92 28	6		
18384 <i>F 3966.2</i>	-Breakwater, head.	40° 47.8' N 121° 04.0' E	Fl.W. period 4s	49 15	6		
18387 <i>F 3964</i>	Tuan-shan Chiao.	40° 12.8' N 120° 27.2' E	Fl.(2+1)W. period 20s	135 41	18	3-sided concrete tower, red and white stripes; 128.	Reserve light range 10M. AIS (MMSI No 004131203).
	RACON		Z(- - • •)				
18388 <i>F 3960.4</i>	Longwangmiao.	40° 04.4' N 120° 00.6' E	Fl.R. period 4s	75 23	6	Black tower; 16.	Fishing light.
18390	Huanhaisidi Zui.	40° 00.1' N 119° 54.8' E	Fl.W. period 10s	82 25	15	White round concrete tower; 40.	
	RACON		K(- • -)				
18408 <i>F 3937</i>	Nanshan Tou.	39° 54.7' N 119° 37.0' E	Fl.W. period 15s	194 59	20	White round concrete tower; 161.	Reserve light range 10M. Radiobeacon.
18412 <i>F 3937.4</i>	-Qinhungdao Gang Range, front.	39° 55.0' N 119° 37.3' E	F.W.	102 31	6	White concrete structure, V daymark; 98.	E. and W. channel limits marked by F.G. and F.R., 2 F.G. and 2 F.R. ranges, respectively. 2 F.W. mark dredged channel.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
18416 <i>F 3937.41</i>	--Rear, 2180 meters 340° from front.	39° 56.1' N 119° 36.8' E	Iso.W. period 4s	154 47	6	White concrete structure, V daymark; 154.	
18420 <i>F 3937.6</i>	-Zhongxin Biao.	39° 53.7' N 119° 37.9' E	Iso.W. period 2s	52 16	6	Concrete tower; 49.	
	-RACON		M(- -)				
18424 <i>F 3949.5</i>	-Oil pier, outer head.	39° 55.3' N 119° 39.3' E	F.R.	49 15	3	White concrete tower; 39.	
18428 <i>F 3950</i>	-Fuel oil pier.	39° 55.6' N 119° 39.1' E	Fl.R. period 4s	39 12	3	White concrete tower; 39.	
18432 <i>F 3950.5</i>	--Outer head.	39° 55.1' N 119° 39.4' E	Fl.W. period 3s	36 11	3	White concrete tower; 39.	
18440 <i>F 3943</i>	-Range, front.	39° 54.5' N 119° 36.1' E	F.W.	72 22	3		Lights in line mark either side of fairway; front F.G., rear F.R.
18444 <i>F 3943.1</i>	--Rear, 1056 meters 352° 32' from front.	39° 55.0' N 119° 36.0' E	F.W.	118 36	3		
18448 <i>F 3948</i>	-E. Channel Range, common front.	39° 56.1' N 119° 39.4' E	F.W.	105 32	12	White concrete tower, red bands; 84.	F.W. lights in line mark either side of fairway. Channel marked by Fl.R. and Fl.G. articulated beacons.
18448.1 <i>F 3948.11</i>	--Middle, 926 meters 330° from common front.	39° 56.6' N 119° 39.1' E	Fl.W. period 6s	141 43	12	Red and white concrete tower, diamond daymark.	
18448.2 <i>F 3948.15</i>	--Rear, 1946 meters 330° from common front.	39° 57.1' N 119° 38.7' E	F.W.	190 58	12	White concrete tower.	
18452 <i>F 3948.1</i>	--Rear, 1200 meters 011° from front.	39° 56.8' N 119° 39.5' E	Oc.W. period 5s	144 44	6	White concrete tower, red bands; 148.	
18452.6 <i>F 3953.81</i>	--Middle, 400 meters 035° from front.	39° 56.4' N 119° 40.5' E	F.W.	91 28	6	White iron framework structure, diamond daymark; 101.	
18452.7 <i>F 3953.82</i>	--Rear, 1235 meters 035° from front.	39° 56.6' N 119° 41.0' E	Fl.W. period 5s	131 40	6	White iron framework structure, diamond daymark; 130.	
	RACON		O(- - -)				
18452.8 <i>F 3953.9</i>	-Meisanqi terminal, head.	39° 55.5' N 119° 40.1' E	F.G.	52 16	3	Iron post; 58.	Harbor limits marked by lit articulated beacons.
18453 <i>F 3954.65</i>	-Chenxiang Hangdao.	39° 55.7' N 119° 39.9' E	Fl.(2)W. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	52 16	4	White concrete cylinder.	
18453.2 <i>F 3954.9</i>	-S. pier, head.	39° 56.0' N 119° 40.1' E	Fl.(2)W. period 4s	39 12	3		
18453.4 <i>F 3954.91</i>	-E. pier, head.	39° 56.1' N 119° 40.1' E	Fl.R. period 2s	16 5	1		
18454 <i>F 3942</i>	-Detached breakwater, E. end.	39° 54.0' N 119° 35.8' E	Fl.R. period 4s	39 12	3	Round concrete tower; 33.	
18454.5 <i>F 3942.1</i>	-Detached breakwater, W. end.	39° 54.0' N 119° 34.4' E	Fl.W. period 4s	39 12	3	Round fiberglass pole, green and white bands.	
18456 <i>F 3943.8</i>	-S. breakwater, head.	39° 54.2' N 119° 36.4' E	Oc.W. period 2s	56 17	3	Round fiberglass beacon, green and white bands; 36.	
18460 <i>F 3944.5</i>	-Tideguage.	39° 54.4' N 119° 36.6' E	Fl.R. period 3s	9 3	1		
18464 <i>F 3943.9</i>	-Pier, head.	39° 54.4' N 119° 36.4' E	F.G.	66 20	3	Square concrete post; 56.	
18466 <i>F 3945</i>	-Pier A.	39° 54.3' N 119° 35.7' E	F.G.	39 12	3	Concrete tower; 40.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
18468 <i>F 3941</i>	-W. Channel Range, front.	39° 54.4' N 119° 35.3' E	F.W.	98 30	6	White concrete tower, red bands; 102.	
18472 <i>F 3941.1</i>	--Rear, 1250 meters 310° from front.	39° 54.9' N 119° 34.7' E	Oc.W. period 5s	144 44	6	White concrete tower, red bands; 148.	Limits of channel marked by F.W. lights in line.
18476 <i>F 3936</i>	Jinshan Zui.	39° 48.6' N 119° 31.6' E	Fl.(2)W. period 6s	171 52	8	White iron framework structure; 92.	
	RACON		Z(- - • •)				
18494	Jingtang Gang.	39° 12.8' N 119° 00.8' E	Fl.(2)W. period 10s	131 40	18	Red round tower, white bands; 115.	
18496 <i>F 3932</i>	Caofeidian.	38° 55.0' N 118° 30.3' E	Fl. W. period 15s	69 21	14	Black steel framework tower, can topmark; 75.	Radar Reflector.
	-RACON		C(- • - •)				
18497 <i>F 3932.35</i>	-W.	38° 55.0' N 118° 29.3' E	Iso.R. period 4s	52 16	7	White round tower, red bands; 33.	
	PO HAI:						
18500 <i>F 3908</i>	-Dagu.	38° 56.3' N 117° 58.8' E	Fl.W. period 10s	118 36	17	White round concrete tower, red and white checkered bands; 126.	Reserve light Fl.W. 10s 10M. Channel marked by lighted buoys and beacons.
	-RACON		K(- • -)		15		Frequency coverage 9330- 9450 MHz. Azimuth coverage 050° - 130°.
18501 <i>F 3909.5</i>	-Oil Pier, E.	38° 56.9' N 117° 52.3' E	Iso.R. period 4s	56 17	7	White fiberglass tower, red bands; 49.	AIS (MMSI No 994131404).
18502 <i>F 3909.6</i>	--W.	38° 56.9' N 117° 52.0' E	Iso.G. period 4s	56 17	7	White fiberglass tower, green bands; 49.	
18504 <i>F 3910</i>	-Xingang, front, center of channel.	38° 58.8' N 117° 44.1' E	Oc.W. period 5s lt. 4s, ec. 1s	92 28		Steel framework structure, black diamond daymark; 92.	Marks center of two-way channel.
18506 <i>F 3911.8</i>	-Cicum Ro-Ro pier.	39° 01.2' N 117° 46.2' E	Iso.R. period 4s	46 14	7	White fiberglass tower, red bands; 40.	
18508 <i>F 3910.1</i>	--Rear, 1,700 meters 281° 36' from front.	38° 59.0' N 117° 43.0' E	Iso.W. period 4s	171 52		Steel framework structure, black diamond daymark; 13.	
	--RACON		M(- -)				
18512 <i>F 3909.83</i>	-N. channel Range, front.	38° 58.8' N 117° 44.1' E	F.W.	79 24		Steel framework structure, black triangular daymark; 79.	Marks middle of north channel. North limit of channel marked by front and rear beacons in line 281° 36' each F.R. with square daymark.
18516 <i>F 3909.831</i>	--Rear, 1,700 meters 281° 36' from front.	38° 59.0' N 117° 43.0' E	F.W.	154 47		Steel framework structure, black triangular daymark; 154.	
18520 <i>F 3910.2</i>	-S. channel Range, front.	38° 58.8' N 117° 44.1' E	F.W.	82 25		Steel framework structure, black triangular daymark, point down; 75.	Marks middle of south channel. South limit of channel marked by front and rear beacons in line 281° 36' each F.R. with black square daymark.
18524 <i>F 3910.21</i>	--Rear, 1,700 meters 281° 36' from front.	38° 58.9' N 117° 43.0' E	F.W.	148 45		Steel framework structure, black triangular daymark, point down; 144.	
18524.5 <i>F 3909.815</i>	-Hangzheng, Service Pier.	38° 58.6' N 117° 44.8' E	Iso.R. period 4s	36 11	5	Round fiberglass pile, red and white bands; 26.	
18526	-HSA Pier.	38° 58.9' N 117° 44.0' E	Fl.R. period 3s	36 11	5	Round structure, red and white bands; 27.	

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CHINA							
18527 <i>F 3911.6</i>	-E. breakwater, pier, S.	38° 58.4' N 117° 47.3' E	Iso.W. period 4s	39	12	White fiberglass tower, black bands.	
18527.1 <i>F 3911.62</i>	--N.	38° 58.6' N 117° 47.4' E	Iso.R. period 4s	39	12	White fiberglass tower, red bands.	
18527.2 <i>F 3911.5</i>	-Bomaik Wharf, N.	38° 56.5' N 117° 46.2' E	Iso.G. period 4s	46	14	White column, green bands; 39.	
18527.5 <i>F 3906.4</i>	Dongying Gang.	38° 08.3' N 119° 02.7' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	59	18	White metal tower, green bands; 39.	
18528 <i>F 9690.4</i>	Laizhou Wan.	38° 07.6' N 119° 33.3' E	Mo.(U)W. period 15s	66	20		Mo.(U) 15s 15M Siren marks wellhead 2.5 miles NNE. Fl.(2) 5s mark wellheads 1.4 miles and 5.8 miles S Siren.
18532 <i>F 3897</i>	Qimu Jiao.	37° 41.2' N 120° 13.7' E	Fl.W. period 5s	187	57	White round masonry tower; 16.	
	RACON		C(- • - •)				
18532.5 <i>F 3898.5</i>	Xinhangdao Range, front.	37° 37.4' N 120° 15.6' E	FR.	92	28	Black metal framework tower; 79.	
18532.51 <i>F 3898.51</i>	-Rear, 1000 meters 143° 59' from front.	37° 37.0' N 120° 16.0' E	FR.	144	44	Black metal framework, black diamond daymark; 131.	
18533 <i>F 3898</i>	Longkou Gang Range, front.	37° 38.6' N 120° 19.1' E	FW.	85	26	Black iron framework tower, diamond daymark; 52.	
18533.5 <i>F 3898.1</i>	-Rear, 400 meters 086° 30' from front.	37° 38.6' N 120° 19.8' E	FW.	135	41	Black iron framework tower, diamond daymark; 69.	
18534 <i>F 3899</i>	-Turning lights Range, front.	37° 39.4' N 120° 19.1' E	FR.	52	16	Black iron framework tower, diamond daymark; 69.	
18534.5 <i>F 3899.1</i>	-Rear, 240 meters 037° 28' from front.	37° 39.5' N 120° 19.2' E	FG.	69	21	Black iron framework tower, diamond daymark; 62.	
18535.1 <i>F 3905.365</i>	Laizhou Wan.	37° 25.4' N 119° 56.4' E	Q.G.	43	13	Black and white square metal framework tower; 26.	
18535.5 <i>F 3896.2</i>	Luanjiakou Gang, pier, N. head.	37° 47.6' N 120° 38.1' E	Q.G.	26	8	Black and white metal column; 20.	
18535.7 <i>F 3896.15</i>	--S. head.	37° 47.4' N 120° 38.1' E	Iso.G. period 4s	26	8	White metal column.	
18536 <i>F 3894</i>	Beichangshan Dao.	37° 59.2' N 120° 42.8' E	Fl.W. period 10s	335	102	White round concrete tower; 40.	Visible 122° -253° . Reserve light range 10M.
18537 <i>F 3895.35</i>	Lujjabazi.	37° 58.8' N 120° 39.2' E	Fl.W. period 3s	82	25	White round stone tower; 16.	
18538 <i>F 3895.3</i>	Miao Zui.	37° 58.0' N 120° 38.4' E	Fl.W. period 6s	157	48	White round stone tower; 16.	
18539 <i>F 3895.28</i>	Niutuozi.	37° 55.9' N 120° 40.1' E	Fl.(2)W. period 6s	105	32	White round stone tower; 16.	
18556 <i>F 3892</i>	Houji Dao.	38° 03.5' N 120° 38.4' E	Fl.W. period 12s	341	104	Black round tower, building white; 46.	
	RACON		Z(- - • •)				
18558 <i>F 3895.85</i>	Penglai Gang.	37° 49.8' N 120° 44.6' E	Fl.W. period 5s fl. 1s, ec. 4s	295	90	White round stone tower.	
18559.1 <i>F 3895.22</i>	Quezuijianzi.	37° 54.8' N 120° 43.0' E	Fl.W. period 10s fl. 1s, ec. 9s	69	21	White round stone pile; 23.	
	RACON		Q(- - • -)				

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
18560 <i>F 3893.5</i>	Dazhushan.	38° 01.2' N 120° 56.3' E	Fl.W. period 8s	669 204	15	Round tower, black and white bands; 33.	Reserve light range 15M.
	RACON		B(- • • •)				
18564 <i>F 3893</i>	Xiaozhushan Dao.	38° 01.3' N 120° 52.2' E	Fl.W. period 5s	340 104	18	White round tower; 16.	Obscured 258° -271° .
18568 <i>F 3892.5</i>	Beihuangcheng Dao.	38° 23.5' N 120° 54.7' E	Fl.(2)W. period 15s	561 171	25	White round stone tower; 33.	
	RACON		M(- -)				
	YEN-TAI:						
18569 <i>F 3891.3</i>	-W. harbor, breakwater, elbow.	37° 43.4' N 121° 03.8' E	F.G.	33 10	6	White metal column, black bands; 13.	
18569.1 <i>F 3891.2</i>	---Head.	37° 43.4' N 121° 04.9' E	Iso.G. period 4s	33 10	6	White metal column; 20.	
18572 <i>F 3892</i>	-Yantai Shan.	37° 32.9' N 121° 24.0' E	Fl.W. period 9s	263 80	20	White concrete tower.	Visible 210° -284° , partially obscured by shore.
18576 <i>F 3884</i>	-Breakwater, N. head.	37° 33.5' N 121° 23.8' E	Fl.R. period 4s	49 15	5	Red square iron framework structure; 39.	
18580 <i>F 3886</i>	-Breakwater, S. head.	37° 33.1' N 121° 24.0' E	Q.G.	49 15	8	Green square iron framework structure; 39.	
18584 <i>F 3888</i>	-Mole, head.	37° 33.3' N 121° 23.7' E	Fl.G. period 4s	33 10	8	Green square iron framework structure; 23.	
18586 <i>F 3887</i>	-Inner Harbor Range, front.	37° 33.1' N 121° 23.2' E	FR.	102 31	3	Red square framework tower, white bands, triangular daymark, point up; 97.	
18586.1 <i>F 3887.1</i>	--Rear, 280 meters 280° from front.	37° 33.2' N 121° 23.1' E	FR.	141 43	3	Red square framework tower, white bands, triangular daymark, point down; 128.	
18587 <i>F 3882.5</i>	-W. Port Area Range, front	37° 33.7' N 121° 22.1' E	FR.	125 38	15	Round structure, red and white diamond daymark; 115.	N. and S. channel limits marked by F.G. range lights.
	RACON		K(- • -)				
18587.1 <i>F 3882.51</i>	--Rear, 830 meters 248° from front.	37° 33.6' N 121° 21.6' E	FR.	161 49	15	Round structure, red and white diamond daymark; 148.	
18587.3 <i>F 3886.55</i>	-No. 3 Basin, S. Breakwater.	37° 34.3' N 121° 23.5' E	Q.G.	36 11	5	Black square framework tower; 26.	
18587.5 <i>F 3886.5</i>	-W. Port Area, E. breakwater.	37° 34.1' N 121° 23.4' E	Q.R.	56 17	5	Red square framework structure.	
18587.6 <i>F 3881.4</i>	-Vehicle Ferry Pier.	37° 35.4' N 121° 22.8' E	FR.	30 9	6	Black steel framework structure; 5.	
18587.7 <i>F 3881.5</i>	-Operations Pier, head.	37° 35.6' N 121° 22.6' E	F.G.	42 13	8	White steel pipe; 26.	
18587.8 <i>F 3881.6</i>	-Salvage Pier, head.	37° 35.7' N 121° 23.5' E	Q.W.				
18588 <i>F 3881</i>	-Xiaoshanzi.	37° 35.6' N 121° 26.0' E	Fl.W. period 6s	69 21	6	White square brick tower; 26.	
18592 <i>F 3880.5</i>	-Dajiaoshi (Stickup Rock).	37° 34.8' N 121° 28.1' E	Fl.(2)R. period 6s	52 16	2	Red metal pole; 13.	Visible 031° 30' -273° 30' . Fishing light.
18596 <i>F 3878</i>	Kongtong Dao.	37° 33.7' N 121° 30.9' E	Fl.W. period 15s	256 78	20	White round concrete structure; 62.	
	RACON		G(- - •)				

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
18600 <i>F 3876</i>	Jingzi Tou.	37° 33.7' N 122° 07.2' E	Fl.W. period 15s	302 92	25	White round stone tower; 26.	
18604 <i>F 3880</i>	Pei Shih.	37° 36.5' N 121° 35.4' E	Fl.(2)W. period 6s	92 28	8	White square stone tower; 12.	
18608 <i>F 3868</i>	Zhaobei Zui.	37° 27.7' N 122° 14.6' E	Fl.W. period 8s	95 29	15	White round iron tower and dwelling; 29.	Partially obscured by shore.
18612 <i>F 3870</i>	-Dahong, E. entrance, N. side.	37° 29.7' N 122° 12.9' E	Fl.W. period 5s	33 10	8	Round stone tower, red and white bands; 23.	Occasional.
18616 <i>F 3869</i>	Ri Dao.	37° 28.7' N 122° 12.1' E	Fl.(2)W. period 6s	62 19	7	White round stone tower; 16.	
18617 <i>F 3868.5</i>	Weihai Gang, breakwater head.	37° 27.4' N 122° 12.0' E	FR.	26 8	4	Red metal framework beacon; 16.	
18620 <i>F 3874</i>	Yashi Dao.	37° 31.7' N 122° 10.5' E	Fl.G. period 5s	46 14	8	White round stone tower; 16.	
18624 <i>F 3871</i>	-Qigan Zui.	37° 29.5' N 122° 08.4' E	Fl.W. period 12s	75 23	16	White round stone tower; 36.	Reserve light Fl.W. 3s.
18626 <i>F 3871.7</i>	Weihai Gang Range, front.	37° 30.4' N 122° 07.2' E	Oc.R. period 4s	102 31	4	Red and white framework tower, black triangular topmark, point up; 33.	
18626.1 <i>F 3871.71</i>	-Rear, 190 meters 270° from front.	37° 30.4' N 122° 07.1' E	FR.	135 41	4	Red and white framework tower, black triangular topmark, point down; 122.	
18628 <i>F 3871.63</i>	Weihai pier, N side.	37° 30.4' N 122° 07.5' E	Q.R.	75 23	4		
18628.5 <i>F 3871.6</i>	-S. side.	37° 30.3' N 122° 07.5' E	FR.	75 23	4		
18629 <i>F 3871.3</i>	Weihai Gang, head.	37° 28.9' N 122° 08.4' E	FR.	16 5	3	White metal framework tower.	
18634 <i>F 3867</i>	Jiming Dao.	37° 27.1' N 122° 29.0' E	Fl.W. period 10s	252 77	15	Round stone tower, red and white bands; 26.	
18636 <i>F 3866</i>	Hailu Dao.	37° 26.8' N 122° 39.9' E	Fl.W. period 5s	233 71	15	White round stone tower; 23.	
	RACON		X(- • • -) period 20s		20		
18640 <i>F 3864</i>	Chengshan Jiao.	37° 23.7' N 122° 42.1' E	Fl.(2)W. period 20s	198 60	25	White round tower; 53.	Obscured 044° -117° and intermittently between 117° - 158° by 7 peaks including 150° -153° by Hailu Dao. Reserve light range 12M. Radiobeacon.
18644 <i>F 3863</i>	Waizhe Dao.	37° 15.5' N 122° 35.0' E	Fl.W. period 6s	128 39	6	White round stone tower; 18.	
18648 <i>F 3862</i>	Haimaozi Tau.	37° 09.6' N 122° 34.1' E	Fl.W. period 12s	247 75	25	White round stone tower; 46.	
	RACON		Y(- • - -)				
18652 <i>F 3860</i>	Moye Dao.	36° 53.8' N 122° 30.9' E	Fl.W. period 15s	93 28	15	Round stone tower, red and white bands; 70.	Siren: 2 bl. ev. 100s. Radiobeacon.
18656 <i>F 3858</i>	Sushan Dao.	36° 45.1' N 122° 15.4' E	Fl.W. period 25s	379 116	20	White round stone tower; 33.	
18660 <i>F 3856</i>	Qianli Yan.	36° 16.1' N 121° 23.2' E	Fl.W. period 15s	276 84	24	Round stone tower, red and white bands; 49.	Obscured 324° -332° .
18661 <i>F 3856.3</i>	Laolongtou.	36° 41.4' N 121° 14.3' E	Fl.W. period 6s fl. 0.4s, ec. 5.6s	52 16	10	Round stone tower.	AIS.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
18661.2 <i>F 3856.29</i>	Fengcheng Gang, pier.	36° 40.7' N 121° 14.1' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	46 14	8	Red concrete structure; 39.	
18664 <i>F 3850.6</i>	Laoshan Tou.	36° 08.1' N 120° 42.8' E	Fl.W. period 6s	381 116	15	White round stone tower; 16.	Obscured 072° -158° .
	RACON		O(- - -)				
18666 <i>F 3850.5</i>	Tuolou Dao.	36° 04.7' N 120° 35.0' E	L.Fl.W. period 10s fl. 2s, ec. 8s	69 21	3	White round stone tower.	
CHIAO-CHOU WAN:							
18668 <i>F 3814</i>	-Chaolian Dao.	35° 53.7' N 120° 52.6' E	Fl.W. period 10s fl. 1s, ec. 9s	262 80	24	White octagonal stone tower; 42.	Siren: 3 bl. ev. 90s.
18670 <i>F 3816</i>	Xiaogong Dao.	35° 59.8' N 120° 35.0' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	164 50	15	Concrete column.	
18672 <i>F 3818</i>	Dagong Dao.	35° 57.6' N 120° 29.5' E	Fl.W. period 5s	430 131	15	White round tower; 34.	
18676 <i>F 3820</i>	Zhucha Dao.	35° 56.4' N 120° 18.5' E	Fl.(3)W. period 10s	131 40	9	White round stone tower; 16.	Obscured 264° -276° .
18678 <i>F 3821</i>	Lian Dao.	35° 56.5' N 120° 19.6' E	Fl.W. period 6s	52 16	8	Fiberglass structure, red and white bands; 8.	
18679 <i>F 3812</i>	Liansan Dao.	35° 54.0' N 120° 10.8' E	Fl.(2)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 8s	318 97	12	Square stone tower.	
18679.2 <i>F 3811</i>	Laoling Shi.	35° 53.1' N 120° 09.8' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	26 8	6	White round concrete tower.	
18680 <i>F 3810</i>	Lingshan Dao.	35° 44.7' N 120° 09.4' E	Fl.W. period 6s	121 37	10	Round stone tower, red and white bands; 16.	Obscured 147° -310° .
18684 <i>F 3822</i>	Daqiao Dao.	35° 59.5' N 120° 19.7' E	Fl.(2)W. period 5s	59 18	15	Red structure, white concrete base; 41.	
	RACON		B(- • • •)				
18686 <i>F 3823</i>	<i>HUANDAO, OUTER CHANNEL LIGHTSHIP.</i>	36° 00.1' N 120° 19.9' E	Fl.(2)W. period 10s			Red hull.	Radar reflector.
	RACON		K(- • -)				
18688 <i>F 3826</i>	Ch'ing Tao.	36° 03.2' N 120° 19.1' E	Fl.R. period 7s fl. 0.5s, ec. 6.5s	91 28	12	White octagonal stone tower; 39.	Reserve light range 3M.
18690	-Tuandao Wan.	36° 03.0' N 120° 18.1' E	Fl.G. period 4s	32 10	8	Round concrete structure, green and white bands; 20.	
18692 <i>F 3824</i>	Tuan Dao.	36° 02.7' N 120° 17.0' E	Oc.W.R.G. period 5s	78 24	15	Octagonal stone tower, black and white bands; 50.	R. 253° -283° , W.-184° , G.-213° , obsc.-253° . Reserve light Fl.W. 3s 13M. Horn: 4 bl. ev. 30s.
	RACON		Y(- • - -)				
18694	Huandao, <i>Buoy No. 31.</i>	36° 01.9' N 120° 15.4' E	Q.R.			PORT (A) R, pillar, topmark.	
	RACON		M(- -)				

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
18700 <i>F 3825</i>	ZHONGSHA JIAO LIGHTSHIP	36° 04.0' N 120° 15.3' E	Fl.W. period 6s	33 10	6	Red hull with name painted on sides.	Radar reflector.
	RACON		Z(- - • •)				
18704 <i>F 3832</i>	-Mati Jiao.	36° 04.6' N 120° 17.4' E	Fl.W. period 8s	28 9	12	White round stone tower, black bands; 36.	
	-RACON		C(- • - •)				
18708 <i>F 3836</i>	Da Gang, N. breakwater, head.	36° 05.4' N 120° 18.2' E	Iso.W. period 4s	39 12	10	White concrete column; 26.	
18720 <i>F 3837.5</i>	-Da Gang Entrance Left, Wharf No. 5, S. head.	36° 05.4' N 120° 18.5' E	F.R.	28 9	7	Round stone structure, red and white bands; 16.	
18728 <i>F 3837</i>	-Da Gang Entrance Right, wharf No. 1, W. head.	36° 05.3' N 120° 18.7' E	F.G.	29 9	8	Round stone structure, green and white bands; 16.	
18732 <i>F 3844</i>	-Da Gang Range, front, mole No. 2, NW. head.	36° 05.4' N 120° 19.0' E	Iso.G. period 2s	36 11	3	White iron framework structure, black and white trapezoidal daymark; 30.	
18736 <i>F 3844.1</i>	--Rear, 1120 meters 074° from front.	36° 05.6' N 120° 19.7' E	Iso.G. period 2s	62 19	4	White iron framework structure, black and white trapezoidal daymark; 60.	
18740 <i>F 3847</i>	-Huang Dao oil wharf, front.	36° 04.2' N 120° 13.4' E	F.G.	52 16	3	Round steel tower, black and white bands; 37.	
18744 <i>F 3847.1</i>	--Rear, 1016 meters 163° 30' from front.	36° 03.6' N 120° 13.6' E	F.G.	62 19	3	Round steel tower, black and white bands; 37.	Visible 161° -166°.
18748 <i>F 3847.5</i>	--Wharf.	36° 03.8' N 120° 13.6' E	F.R.	36 11	3	Red round steel tower; 21.	
18749.2 <i>F 3824.41</i>	Qingdaohaiye Oil Pier, N. head.	36° 03.4' N 120° 14.6' E	Iso.G. period 4s	59 18	10	Green fiberglass tower, white bands; 26.	
18749.5 <i>F 3824.39</i>	-S. head.	36° 03.1' N 120° 14.6' E	Iso.R. period 4s	59 18	6	Red fiberglass tower, white bands; 26.	
18749.6 <i>F 3824.38</i>	Huangdao Oil Terminal, No. 2, N. head.	36° 03.1' N 120° 14.6' E	F.R.				
18749.65 <i>F 3824.37</i>	--S head.	36° 02.8' N 120° 14.5' E	F.G.				
18749.7 <i>F 3824.36</i>	-No. 3, N. head.	36° 02.8' N 120° 14.5' E	Fl.(2)G. period 5s				
18749.75 <i>F 3824.35</i>	--S. head.	36° 02.5' N 120° 14.5' E	Fl.(2)R. period 5s				
18749.8 <i>F 3824.34</i>	Huangdao, breakwater, head.	36° 02.5' N 120° 13.7' E	F.R.				
18750 <i>F 3813</i>	Lingshan Chuanchang, pier, head.	35° 54.6' N 120° 08.2' E	F.R.				
18751 <i>F 3809</i>	Dazhushan Zui.	35° 43.4' N 120° 00.4' E	Fl.W. period 3s	397 121	20	White round stone tower.	
18751.2 <i>F 3808.8</i>	Zhaitang.	35° 37.4' N 119° 55.3' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	262 80	10	Square stone tower.	
18751.3 <i>F 3808.65</i>	Dongjiakou Gangqu, Huaneng pier.	35° 35.9' N 119° 47.7' E	F.R.	39 12	8	White fiberglass tower, red bands; 26.	
18751.4 <i>F 3808.6</i>	Dongjiakou Zui.	35° 35.2' N 119° 45.4' E	Fl.W. period 1.5s	89 27	6	Round stone tower.	
18752 <i>F 3808</i>	Rizhao.	35° 23.7' N 119° 33.4' E	Fl.W. period 8s	128 39	18	White concrete tower, black bands; 119.	
18753 <i>F 3808.2</i>	-Coal Pier Range, front.	35° 22.7' N 119° 33.8' E	F.Y.	65 20		Steel pipe.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
18753.1 <i>F 3808.21</i>	--Rear, 350 meters 345° 45' from front.	35° 22.8' N 119° 33.8' E	F.Y.		85 26	Steel pipe.	
18753.4 <i>F 3808.1</i>	Bulk Pier.	35° 22.1' N 119° 32.4' E	Iso.W. period 4s		43 13	5 Red and white fiberglass tower; 26.	
18753.7 <i>F 3808.4</i>	--Head.	35° 21.9' N 119° 34.1' E	F.R.				
18753.9 <i>F 3807.7</i>	Kuishan Zui.	35° 20.3' N 119° 30.7' E	F.R.		55 17	6 Triangular wooden framework tower.	Fishing light.
18753.91 <i>F 3806.5</i>	Lanshan Gang, chemical pier.	35° 05.4' N 119° 22.5' E	Fl.(2+3)G. period 5s		43 13	8 Green and white round concrete tower; 33.	
18754.1 <i>F 3805.84</i>	Zhewanghai Kou, E.	35° 03.5' N 119° 13.7' E	Fl.(3)G. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6.5s		33 10	5 Square metal skeleton tower; 30.	
18756 <i>F 3806</i>	Cheniu Shan.	34° 59.7' N 119° 49.5' E	Fl.W. period 12s		285 87	24 White round concrete tower; 72.	Obscured over small area by Ping Dao and Danian Shan. Reserve light range 15M.
	RACON		C(- • - •)				
18758 <i>F 3800.4</i>	No. 1 LANBY.	34° 49.0' N 119° 41.8' E	Fl.(2)W. period 10s			8 Red spherical buoy.	
	RACON		O(- - -)		18		
LIANYUN GANG:							
18760 <i>F 3804</i>	-Yangwo Tou.	34° 45.4' N 119° 29.7' E	Fl.(3)W. period 20s		410 125	18 White square concrete tower; 52.	Reserve light range 5M.
18761 <i>F 3800.5</i>	-Tide gauge.	34° 45.9' N 119° 35.9' E	Fl.(2)W. period 5s			ISOLATED DANGER BRB, beacon, topmark.	
18762 <i>F 3801</i>	-W. breakwater.	34° 44.8' N 119° 27.3' E	Mo.(C)Y. period 12s		28 9	5 SPECIAL Y, beacon, topmark.	
18764 <i>F 3802</i>	-E. breakwater.	34° 44.5' N 119° 27.5' E	F.R.		43 13	3 Red round tower; 34.	
18768 <i>F 3802.5</i>	-Pier No. 2, NE. head.	34° 44.4' N 119° 27.1' E	Q.W.		20 6	5 N. CARDINAL BY, beacon, topmark; 18.	
18776 <i>F 3800.97</i>	-Shaoliang Hekou, S.	34° 40.1' N 119° 27.5' E	Fl.(2)R. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s		36 11	5 Square metal skeleton tower; 30.	
18777 <i>F 3800.7</i>	-Main Channel A Range, front.	34° 43.7' N 119° 29.2' E	F.R.		88 27	8 Steel structure on concrete base, diamond daymark, white and black stripe; 71.	F.Y. lights mark channel limits.
18777.1 <i>F 3800.71</i>	--Rear, 1470 meters 243° from front.	34° 43.3' N 119° 30.9' E	F.R.		151 46	8 Steel structure on concrete base, diamond daymark, white and black stripe; 53.	
18778 <i>F 3800.8</i>	-Main Channel B Range, front.	34° 43.8' N 119° 31.0' E	F.R.		52 16	5 Steel structure on concrete base, rectangular daymark, white and black stripe; 36.	
18778.1 <i>F 3800.81</i>	--Rear, 810 meters 112° from front.	34° 43.6' N 119° 31.5' E	F.R.		88 27	5 Steel structure on concrete base, rectangular daymark, white and black stripe; 71.	Warning light F.R. 1M.
18778.13 <i>F 3803</i>	-Basin No.1 Range, front.	34° 44.1' N 119° 27.1' E	Q.R.		69 21	3 Metal framework structure, white conical daymark, black stripe; 62.	
18778.15 <i>F 3803.1</i>	--Rear, 159 meters 210° 55' from front.	34° 44.0' N 119° 27.0' E	Q.R.		85 26	3 Metal framework structure, white conical daymark, black stripe; 43.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
18778.2 <i>F 3803.85</i>	-Kangyun Oil Pier Range, front.	34° 44.9' N 119° 28.6' E	F.R.	59 18	3	Metal framework structure, black and white rectangular daymark; 30.	
18778.21 <i>F 3803.86</i>	--Rear, 230 meters 000° from front.	34° 45.0' N 119° 28.7' E	F.R.	95 29	3	Masonry structure, black and white rectangular daymark; 15.	
18778.25 <i>F 3803.81</i>	-Kangyun Oil Basin Range, front.	34° 44.9' N 119° 28.5' E	F.G.	49 15	3	Metal framework structure, black and white round daymark; 20.	
18778.26 <i>F 3803.82</i>	--Rear, 130 meters 000° from front.	34° 45.0' N 119° 28.6' E	F.G.	69 21	3	Metal framework structure, black and white round daymark; 30.	
18778.5 <i>F 3803.25</i>	-Xidadi Range, front.	34° 45.8' N 119° 25.0' E	Iso.R. period 2s	98 30	10	White rectangular daymark, red stripe on 4-sided metal framework tower; 92.	
18778.55 <i>F 3803.251</i>	--Rear, 864 meters 291° 58' from front.	34° 45.9' N 119° 24.5' E	Iso.R. period 2s	174 53	10	White rectangular daymark, red stripe on 4-sided metal framework tower; 157.	
18778.6 <i>F 3803.6</i>	-Shuidao Range, front.	34° 45.1' N 119° 27.8' E	Iso.R. period 2s	299 91	10	White rectangular daymark, red stripe on 3-sided metal framework tower; 43.	
18778.7 <i>F 3803.61</i>	--Rear, 860 meters 090° from front.	34° 45.1' N 119° 28.4' E	Iso.R. period 2s	413 126	10	White rectangular daymark, red stripe on 3-sided metal framework tower; 92.	
18778.8 <i>F 3803.48</i>	-Miaosan Container Wharf.	34° 44.9' N 119° 26.9' E	Iso.R. period 4s	43 13	4	White metal column, red bands; 30.	
18779 <i>F 3803.5</i>	-Coal pier.	34° 45.0' N 119° 24.9' E	F.R.	49 15	3	Black metal framework structure; 39.	
18779.3 <i>F 3803.4</i>	-Xugou Range, front.	34° 45.1' N 119° 22.5' E	F.R.	164 50	5	Metal framework structure, white rectangular daymark, black stripe; 160.	Reserve light Fl.W. 4s 5M. N. and S. limit of channel marked by F.Y. lights in line.
18779.31 <i>F 3803.41</i>	--Rear, 1330 meters 269° 58' from front.	34° 45.1' N 119° 21.7' E	F.R.	266 81	5	Concrete tower, white rectangular daymark, black stripe; 76.	
	--RACON		M(- -)				Azimuth coverage 225° -315° .
18779.315 <i>F 3799.51</i>	Xuwei Ocean Station.	34° 39.9' N 119° 38.7' E	Mo.(U)W. period 15s	49 15	10	Yellow quadrangular concrete column; 46.	 AIS (MMSI No 999412112).
18779.32 <i>F 3798</i>	Kaishan Dao.	34° 31.7' N 119° 52.3' E	Fl.W. period 5s	154 47	18	White round concrete tower; 42.	Reserve light range 5M.
	RACON		K(- • -)				
18779.321 <i>F 3797.8</i>	--Wind Tower, No. 1.	34° 32.7' N 119° 54.1' E	Mo.(C)Y. period 12s	30 9	5	SPECIAL Y, beacon, topmark.	
	--RACON		C(- • - •)				
18779.33 <i>F 3796.5</i>	Biandangang Kou, R.	34° 08.8' N 120° 19.1' E	Fl.(3)G. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6.5s	36 11	5	Square metal skeleton tower; 30.	
18779.34 <i>F 3796.8</i>	Zhendongzha Kou, R.	34° 12.5' N 120° 17.8' E	Fl.(2)G. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	43 13	5	Square metal skeleton tower; 30.	
	Racon		X(- • • -)				
18779.38 <i>F 3795.3</i>	Sheyang Wind Tower.	33° 57.1' N 120° 35.4' E	Mo.(C)Y. period 12s	52 16	4	Yellow square metal framework tower.	 AIS (MMSI No 999412113).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
18779.4 F 3795	Sheyanghe Kou.	33° 49.2' N 120° 28.9' E	Fl.(2)W. period 12s fl. 0.5s, ec. 1s fl. 0.5s, ec. 10s	89 27	6	White metal framework tower, red bands.	
	RACON		O(---)				
18779.5 F 3794.5	Xinyanggang Kou.	33° 39.0' N 120° 34.0' E	Fl.W. period 12s	89 27	12	Wooden framework tower; 95.	
18779.6 F 3794.2	Doulonggang.	33° 28.9' N 120° 40.0' E	Fl.(3)W. period 12s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 7s	33 10	10	Black wooden framework tower.	
18779.7 F 3794.17	Chuandonggang Kou.	33° 03.9' N 120° 47.5' E	Fl.W. period 12s	33 10	10	Black metal pile.	
18779.79 F 3794.168	Yangkou Gang, NW.	32° 33.8' N 121° 02.3' E	Fl.G. period 4s	59 18	5	Metal lattice beacon; 39.	
	RACON		X(-••-)				
18779.8 F 3794.14	Xiaoyang Gang.	32° 30.2' N 121° 07.0' E	Fl.(2)W. period 6s	30 9	7	Framework tower.	
18779.85 F 3794.199	Macaiheng.	33° 21.8' N 121° 20.8' E	Fl.W. period 7s	85 26	15	White round beacon.	Reserve light Fl.W. 5s 5M.
	RACON		D(-••)				
18779.9 F 3794.172	Waikejiao.	33° 00.9' N 121° 38.4' E	Fl.W. period 5s	85 26	15	White round beacon.	Reserve light range 5M.
	RACON		D(-••)				
CHINA-CH'ANG CHIANG (YANGTZE RIVER)							
18780 F 3762	Sheshan.	31° 25.2' N 122° 14.5' E	Fl.W. period 6s	230 70	22	Round black tower; 55.	Reserve light Fl.W. 6s.
18784 F 3753	Jigu Jiao.	31° 10.4' N 122° 23.0' E	Fl.W. period 5s	171 52	18	White round tower, red bands; 30.	Reserve light range 8M.
	RACON		B(-•••)				
18792 F 3752	CHANGJIANG KOU LIGHTSHIP.	31° 06.2' N 122° 32.0' E	Fl.W. period 6s		10	Red hull.	AIS (MMSI No 999412205). Bell. Radar reflector.
	RACON		O(---)				
18793	<i>Changjiang Kou Buoy No. S12.</i>	31° 03.2' N 122° 08.2' E	Mo.(A)W. period 6s			SAFE WATER RW, buoy, topmark.	
	RACON		X(-••-)				
18794 F 3751	NANCAO LIGHTFLOAT.	30° 59.5' N 122° 32.0' E	Fl.(3)W. period 15s		10	Red hull.	AIS (MMSI No 999412204). Bell. Radar reflector.
	RACON		N(-•)				
18796 F 3750	NANZI LIGHTSHIP.	30° 58.5' N 122° 11.1' E	Fl.W. period 10s	31 9	10	Red hull, name on side.	Bell. Radar reflector.
	RACON		M(---)				
18808 F 3754.2	Niupi Jiao tide station.	31° 08.4' N 122° 15.1' E	V.Q.(6)+L.Fl.W. period 10s	39 12	7	S. CARDINAL YB, beacon, topmark.	
	RACON		C(-•••)				

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA-CH'ANG CHIANG (YANGTZE RIVER)							
18812 <i>F 3755</i>	Jiadian Sha E.	31° 06.5' N 122° 10.0' E	Fl.Y. period 4s	25 8	4	Square metal framework structure; 23.	
	RACON		X(- • • -)				
18816 <i>F 3767</i>	Zhong Jun.	31° 06.7' N 121° 54.3' E	Fl.(3)Y. period 12s	28 9	4	SPECIAL Y, beacon, topmark.	
18824 <i>F 3768</i>	<i>JIUDUAN LIGHTSHIP</i>	31° 05.5' N 121° 59.7' E	Fl.(2)W. period 10s	33 10	7	Metal pillar beacon on red hull, name on both sides.	AIS (MMSI No 999412208). Bell. Radar reflector.
	RACON		K(- • -)				
18824.1 <i>F 3768.9</i>	Chuanyang He, No. 1.	31° 13.5' N 121° 45.9' E	Fl.G. period 6s	33 10	3	White metal column, green bands; 23.	
18824.2 <i>F 3768.8</i>	-No. 2.	31° 13.2' N 121° 46.1' E	Fl.R. period 6s	33 10	3	White metal column, red bands; 23.	
18824.3 <i>F 3764.6</i>	Dazhi He, No.1.	31° 00.5' N 121° 56.0' E	Fl.G. period 6s	23 7	3	White metal column, green bands; 23.	
18824.4 <i>F 3764.5</i>	-No. 2.	31° 00.1' N 121° 56.2' E	Fl.R. period 6s	30 9	3	White metal column, red bands; 23.	
18825 <i>F 3754.61</i>	North Training Wall, No. 1.	31° 17.9' N 121° 52.8' E	Fl.Y. period 6s	16 5	3	Black pile.	
18825.01 <i>F 3754.613</i>	-No. 2.	31° 17.8' N 121° 55.3' E	Fl.(2)Y. period 6s	16 5	3	Black pile.	
18825.02 <i>F 3754.616</i>	-No. 3.	31° 17.7' N 121° 58.3' E	Fl.(3)Y. period 6s	16 5	3	Black pile.	
18825.03 <i>F 3754.619</i>	-No. 4.	31° 17.0' N 122° 02.0' E	Fl.Y. period 6s	16 5	3	Black pile.	
18825.04 <i>F 3754.622</i>	-No. 5.	31° 15.8' N 122° 05.5' E	Fl.(2)Y. period 6s	16 5	3	Black pile.	
18825.05 <i>F 3754.625</i>	-No. 6.	31° 14.4' N 122° 08.0' E	Fl.(3)Y. period 6s	16 5	3	Black pile.	
18825.06 <i>F 3754.626</i>	-No. 7.	31° 12.9' N 122° 10.6' E	Fl.Y. period 6s		5	Black pile; 26.	
18825.07 <i>F 3754.627</i>	-No. 8.	31° 11.6' N 122° 12.7' E	Fl.(2)Y. period 6s		5	Black pile; 33.	
18825.08 <i>F 3754.628</i>	-No. 9.	31° 10.2' N 122° 14.9' E	Fl.(3)Y. period 6s		5	Black pile; 33.	
18825.09 <i>F 3754.638</i>	-No. 10.	31° 08.9' N 122° 17.2' E	Fl.Y. period 6s		5	Black pile; 33.	
18825.1 <i>F 3754.63</i>	-N. spur, No. 1.	31° 17.2' N 121° 52.6' E	Q.Y.	26 8	5	Black metal column; 33.	
18825.11 <i>F 3754.633</i>	--No. 2.	31° 16.8' N 121° 55.1' E	Q.Y.	26 8	5	Black metal column; 33.	
18825.12 <i>F 3754.636</i>	--No. 3.	31° 15.9' N 121° 58.0' E	Q.Y.	26 8	5	Black metal column; 33.	
18825.13 <i>F 3754.6191</i>	--No. 4.	31° 15.4' N 122° 01.5' E	Q.Y.	26 8	5	Black metal column; 33.	
18825.14 <i>F 3754.6221</i>	--No. 5.	31° 14.8' N 122° 04.9' E	Q.Y.	26 8	5	Black metal column; 33.	
18825.15 <i>F 3754.6251</i>	--No. 6.	31° 13.8' N 122° 07.5' E	Q.Y.	33 10	5	Black metal column; 39.	
18825.16 <i>F 3754.6261</i>	--No. 7.	31° 12.4' N 122° 10.2' E	Q.Y.		5	Black pile; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA-CH'ANG CHIANG (YANGTZE RIVER)							
18825.17 <i>F 3754.6271</i>	--No. 8.	31° 11.1' N 122° 12.4' E	Q.Y.			5	Black pile; 39.
18825.18 <i>F 3754.6281</i>	--No. 9.	31° 09.8' N 122° 14.6' E	Q.Y.			5	Black pile; 39.
18825.19 <i>F 3754.6381</i>	--No. 10.	31° 08.4' N 122° 16.8' E	Q.Y.			5	Black pile; 39.
18825.2 <i>F 3754.639</i>	-Head.	31° 07.8' N 122° 18.9' E	Fl.(2)Y. period 6s			5	Green and white column; 39.
18826.01 <i>F 3754.67</i>	South Training Wall, S. spur, No. 1.	31° 15.4' N 121° 52.2' E	Q.Y.			16 5	3 Black pile.
18826.02 <i>F 3754.673</i>	--No. 2.	31° 14.7' N 121° 55.2' E	Q.Y.			16 5	3 Black pile.
18826.03 <i>F 3754.676</i>	--No. 3.	31° 14.1' N 121° 58.3' E	Q.Y.			26 8	5 Black metal column; 33.
18826.04 <i>F 3754.656</i>	--No. 4.	31° 13.5' N 122° 01.5' E	Q.Y.			26 8	5 Black metal column; 33.
18826.05 <i>F 3754.657</i>	--No. 5.	31° 12.7' N 122° 04.6' E	Q.Y.			26 8	5 Black metal column; 33.
18826.06 <i>F 3754.659</i>	--No. 6.	31° 11.4' N 122° 07.3' E	Q.Y.			33 10	5 Black metal column; 39.
18826.07 <i>F 3754.663</i>	--No. 7.	31° 10.0' N 122° 09.6' E	Q.Y.			33 10	5 Black metal column; 39.
18826.08 <i>F 3754.665</i>	--No. 8.	31° 08.5' N 122° 12.0' E	Q.Y.				5 Black pile; 39.
18826.09 <i>F 3754.667</i>	--No. 9.	31° 07.0' N 122° 14.3' E	Q.Y.				5 Black pile; 39.
18826.1 <i>F 3754.64</i>	-No. 1.	31° 16.9' N 121° 46.6' E	Fl.Y. period 6s			16 5	3 White pile, red bands.
18826.11 <i>F 3754.643</i>	-No. 2.	31° 15.7' N 121° 49.9' E	Fl.(2)Y. period 6s			16 5	3 Black pile.
18826.12 <i>F 3754.646</i>	-No. 3.	31° 15.0' N 121° 52.1' E	Fl.(3)Y. period 6s			16 5	3 Black pile.
18826.13 <i>F 3754.649</i>	-No. 4.	31° 14.3' N 121° 55.1' E	Fl.Y. period 6s			16 5	3 Black pile.
18826.14 <i>F 3754.652</i>	-No. 5.	31° 13.7' N 121° 58.2' E	Fl.(2)Y. period 6s			16 5	3 Black pile.
18826.15 <i>F 3754.655</i>	-No. 6.	31° 13.0' N 122° 01.3' E	Fl.(3)Y. period 6s			16 5	3 Black pile.
18826.16 <i>F 3754.658</i>	-No. 7.	31° 12.0' N 122° 04.1' E	Fl.Y. period 6s			16 5	3 Black pile.
18826.17 <i>F 3754.661</i>	-No. 8.	31° 10.5' N 122° 06.5' E	Fl.(2)Y. period 6s			16 5	3 Black pile.
18826.18 <i>F 3754.662</i>	-No. 9.	31° 09.0' N 122° 08.8' E	Fl.(3)Y. period 6s				5
18826.19 <i>F 3754.664</i>	-No. 10.	31° 07.5' N 122° 11.1' E	Fl.Y. period 6s				5
18826.2 <i>F 3754.666</i>	-Head.	31° 05.9' N 122° 13.6' E	Fl.(2)Y. period 6s				5
18826.3 <i>F 3754.679</i>	South Branch, No. 1.	31° 16.2' N 121° 47.2' E	Q.Y.			16 5	3 Black pile.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA-CH'ANG CHIANG (YANGTZE RIVER)							
18828 <i>F 3754.7</i>	Beicaozhong tide station.	31° 14.0' N 122° 00.6' E	Mo.(O)Y. period 12s	39 12	4	SPECIAL Y, beacon, topmark.	
	RACON		G(- - •)				
18829 <i>F 3754.69</i>	Hengsha.	31° 18.0' N 121° 50.9' E	Fl.W. period 8s	187 57	18	White rectangular concrete tower; 187.	
	-Reserve light.		Fl.W. period 8s		10		AIS (MMSI No 999412213).
18830 <i>F 3770</i>	-Sewer Warning Beacon No. 3.	31° 15.9' N 121° 45.1' E	Mo.(C)Y. period 15s	30 9	3	SPECIAL Y, beacon, topmark.	
	-RACON		Y(- • - -)				
18834 <i>F 3770.5</i>	-No. 24 LANBY.	31° 19.3' N 121° 42.2' E	Fl.W. period 6s		10	Red superbuoy.	Radar reflector.
	-RACON		Z(- - • •)				
18835 <i>F 3771</i>	-Fenghuang.	31° 22.7' N 121° 41.3' E	Mo.(C)Y. period 12s	31 9	3	SPECIAL Y, beacon, topmark.	
18836 <i>F 3779</i>	-Heliu No. 1.	31° 21.6' N 121° 37.4' E	Mo.(C)Y. period 12s			SPECIAL Y, articulated beacon, topmark.	Radar reflector.
	-RACON		Q(- - • -)				
HUANGPU JIANG:							
18840 <i>F 3780</i>	-Hetang.	31° 23.8' N 121° 31.2' E	Fl.W. period 5s	56 17	13	White round concrete tower; 66.	
	--Reserve light.		Fl.W. period 5s		7		AIS (MMSI No 999412212).
	--RACON		Y(- • - -)				
18841 <i>F 3780.2</i>	-Shigeng, breakwater No. 1.	31° 23.8' N 121° 31.1' E	Fl.Y. period 4s	22 7	6	Black iron framework structure, ball topmark; 27.	
18842 <i>F 3780.3</i>	--No. 2.	31° 23.7' N 121° 31.0' E	Fl.Y. period 4s	18 5	6	Black iron framework structure, ball topmark; 24.	
18843 <i>F 3780.4</i>	--No. 3.	31° 23.7' N 121° 30.9' E	Fl.Y. period 4s	19 6	6	Black iron framework structure, ball topmark; 23.	
18844 <i>F 3780.5</i>	--No. 4.	31° 23.7' N 121° 30.8' E	Fl.Y. period 4s	19 6	6	Black square concrete structure; 24.	
18845 <i>F 3780.6</i>	--No. 5.	31° 23.6' N 121° 30.7' E	Fl.Y. period 4s	21 6	6	Black square concrete structure; 24.	
18848 <i>F 3781</i>	--Range, front.	31° 23.4' N 121° 30.3' E	F.R.	85 26	8	White iron framework structure, red and white trapezoidal daymark; 79.	
18852 <i>F 3781.1</i>	---Rear, 210 meters 250° 20' from front.	31° 23.3' N 121° 30.1' E	F.R.	112 34	8	White iron framework structure, red and white conical daymark; 118.	Emergency light Iso.W.
18854 <i>F 3782</i>	-Wushui.	31° 22.8' N 121° 29.9' E	Mo.(C)Y. period 12s	27 8	3	SPECIAL Y, beacon, topmark.	
18855 <i>F 3783</i>	-Zhajing No. 1.	31° 20.6' N 121° 31.6' E	Mo.(C)Y. period 12s	22 7	4	SPECIAL Y, beacon, topmark.	
18857 <i>F 3785</i>	-Gaoqiao.	31° 19.8' N 121° 33.6' E	Fl.Y. period 4s	75 23	4	Concrete structure; 69.	
18858 <i>F 3785.4</i>	--Range, front.	31° 19.8' N 121° 33.6' E	F.R.	36 11		Triangular daymark.	
18858.1 <i>F 3785.41</i>	---Rear, 100 meters 139° from front.	31° 19.7' N 121° 33.6' E	F.W.R.W.(hor.)	43 13		Triangular daymark.	1m apart.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA-CH'ANG CHIANG (YANGTZE RIVER)							
18860 <i>F 3790</i>	Baoshan, breakwater No. 1.	31° 25.1' N 121° 29.2' E	Fl.Y. period 2s	20 6	3	White and red metal framework structure; 10.	
CHINA							
18864 <i>F 3747.4</i>	Tung Tao (Haijiao).	30° 44.1' N 123° 08.5' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	190 58	16	White conical concrete structure; 39.	
	RACON		K(- • -)				
18867 <i>F 3747.6</i>	Xiaoji Shan.	30° 42.8' N 122° 03.0' E	Fl.(2)W. period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6s	171 52	10	White metal column; 26.	AIS (MMSI No 999412203).
	RACON		Y(- • - -)				
18868 <i>F 3748</i>	Daji Shan.	30° 48.6' N 122° 10.4' E	Fl.(2)W. period 10s	302 92	20	White round tower; 42.	Reserve light range 8M.
18872 <i>F 3746</i>	Huaniao Shan.	30° 51.7' N 122° 40.3' E	Fl.W. period 15s fl. 1s, ec. 14s	292 89	24	Black and white round tower; 52.	AIS (MMSI No 004132202). Visible 071° -294° , 301° -306° . Reserve light Oc.(4)W. 34s 6M. Horn: 5 bl. ev. 60s (bl. 3s, si. 2s, bl. 3s, si. 2s, bl. 3s, si. 2s, bl. 3s, si. 37s).
	RACON		Y(- • - -)				
18876 <i>F 3747</i>	Taman Shan (Giffard Rock).	30° 50.1' N 122° 35.7' E	Fl.W. period 4s	108 33	8	White square structure; 10.	
18876.1 <i>F 3747.05</i>	Mantou Shan.	30° 48.4' N 122° 36.4' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	89 27	10	White concrete structure; 33.	AIS (MMSI No 999412394).
18876.2 <i>F 3747.14</i>	Huangshidong Dao.	30° 42.9' N 122° 44.1' E	Fl.W. period 4s	102 31	4	White round concrete structure; 23.	
18876.3 <i>F 3747.28</i>	Xiaogong Jiao.	30° 41.5' N 122° 47.7' E	Fl.G. period 4s	89 27	4	White and green round concrete structure; 23.	
18876.5 <i>F 3747.13</i>	Xibanyang Jiao.	30° 43.1' N 122° 40.0' E	Fl.(2)W. period 5s	56 17	10	Black metal column, red bands.	
	RACON		X(- • • -)				
18876.6 <i>F 3747.23</i>	Dazui Dao.	30° 46.4' N 122° 47.7' E	Fl.(2)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 8s	89 27	8	White round brick structure; 10.	Fishing light.
18876.7 <i>F 3747.26</i>	Menqian Jiao.	30° 41.4' N 122° 46.5' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	36 11	7	White metal column, black bands; 30.	
18876.9 <i>F 3747.3</i>	Manyutou Dao.	30° 42.2' N 122° 49.9' E	Fl.W.R. period 12s fl. 1s, ec. 11s	171 52	W. 14 R. 8	White square stone structure; 10.	W.220° -341° , R.-359° , W.-081° . Fishing light.
18877 <i>F 3741</i>	Lisi Jiao.	30° 46.4' N 122° 27.8' E	Fl.(3)W. period 10s	125 38	10	Stone pyramid, white tiles; 27.	
18877.4 <i>F 3740.73</i>	Houxiaoshan.	30° 46.2' N 122° 23.5' E	Q.W.	66 20	4	Black metal post; 23.	
18877.5 <i>F 3740.8</i>	Biandao Jiao.	30° 46.1' N 122° 26.6' E	Fl.W.R. period 3s fl. 0.5s, ec. 2.5s	30 9	W. 18 R. 14	White 4-sided concrete tower; 26.	R. 083° -117.5° , W.-166° , R.-183° . Occasional.
18878 <i>F 3740.02</i>	Mapigu.	30° 40.4' N 122° 24.6' E	Fl.(3)W. period 10s	420 128	9	White conical concrete structure, red bands; 52.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
18878.2 <i>F 3740.027</i>	Waimati Jiao.	30° 39.8' N 122° 26.1' E	Fl.(2)W. period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6s	49 15	8	White concrete tower; 36.	
	RACON		M(- -)				
18878.5 <i>F 3740.025</i>	Neimati.	30° 40.3' N 122° 26.1' E	Fl.W. period 1.5s	36 11	9	White conical concrete structure; 25.	
18879 <i>F 3740.08</i>	Daqianzui Tou.	30° 40.9' N 122° 33.3' E	Fl.(3)W. period 10s	115 35	10	White hexagonal tower; 28.	
18879.1 <i>F 3740.06</i>	Dahuanglong.	30° 40.0' N 122° 34.7' E	Fl.W. period 4s	299 91	9	White conical concrete structure, red bands; 52.	
18879.5 <i>F 3740.055</i>	Nandingxing.	30° 38.9' N 122° 30.6' E	Fl.(2+1)W. period 9s	423 129	15	White conical concrete structure, red bands; 55.	
	RACON		Y(- • - -)				
18879.6 <i>F 3739</i>	Xiaobanian Shan.	30° 37.5' N 122° 28.3' E	Fl.(2)W. period 6s	236 72	9	White conical concrete structure, red bands; 52.	
	PA-KO LIEH-TAO:						
18880 <i>F 3740</i>	-Pan-yang Shan, E. end of island.	30° 38.3' N 122° 22.3' E	Fl.W. period 3s	62 19	14	Black round tower; 32.	Reserve light F.W. 8M.
	-RACON		B(- • • •)				
18884 <i>F 3738</i>	-Pai-chieh Shan.	30° 36.8' N 122° 25.2' E	Al.FI.W.R. period 60s	246 75	22	Round tower, red and white bands; 47.	Obscured 166° -260° . Reserve light F.W. 8M.
18885 <i>F 3717.99</i>	-Wind Farm, No. 34.	30° 35.7' N 122° 01.6' E	Mo.(C)Y. period 15s		5		AIS (MMSI No 999412220).
18886 <i>F 3718.3</i>	Dajinshan Dao.	30° 41.5' N 121° 25.1' E	Fl.(3)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6.5s	344 105	10	White metal column, red stripes; 30.	
18886.5 <i>F 3718.498</i>	Yi Shan.	30° 37.4' N 121° 09.0' E	Fl.W. period 2s fl. 0.5s, ec. 1.5s	66 20	10	White concrete column; 43.	
18887 <i>F 3718.53</i>	Guancai Jiao.	30° 35.5' N 121° 08.5' E	Fl.(2)W. period 5s	43 13	4	Black round concrete tower, red bands; 33.	
18887.4 <i>F 3717.972</i>	--No 17.	30° 49.7' N 121° 55.7' E	F.G.				
18887.45 <i>F 3717.968</i>	--No 13.	30° 46.8' N 121° 57.4' E	F.G.				
18887.5 <i>F 3717.9</i>	Luchao Gang, No. 1.	30° 50.6' N 121° 50.6' E	Fl.Y. period 4s	36 11	5	Red metal tower; 36.	
18887.51 <i>F 3717.964</i>	--No 7.	30° 43.5' N 121° 58.5' E	F.G.				AIS (MMSI No 999412210). F.G. on each side.
	-RACON		B(- • • •)				
18887.52 <i>F 3717.96</i>	-Donghai Bridge, Trial Warning, No 3.	30° 40.6' N 121° 59.8' E	Fl.(2)W. period 5s	36 11	3	ISOLATED DANGER BRB, beacon, topmark; 16.	
18887.53 <i>F 3717.961</i>	--No 2.	30° 40.4' N 121° 59.9' E	F.G.				
18887.54 <i>F 3717.962</i>	--No 3.	30° 40.4' N 121° 59.9' E	F.G.				
18888 <i>F 3717.5</i>	Ziaowugui.	30° 39.6' N 122° 00.6' E	Fl.W. period 4s	98 30	10	Black and white round concrete tower; 35.	Fishing light.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
18892 <i>F 3717</i>	Tangnao Shan.	30° 35.8' N 121° 58.0' E	Fl.(3)W. period 10s	135 41	18	White round concrete tower; 72.	Obscured 323° -326° . Reserve light F.W. 7M.
	RACON		Z(- - • •)				
18892.3 <i>F 3717.754</i>	Qiqu Liedao.	30° 35.6' N 122° 05.1' E	Fl.W. period 10s	328 100	18		AIS (MMSI No 999412215).
18892.31 <i>F 3717.74</i>	Shaoji Dao.	30° 35.2' N 122° 07.6' E	Fl.(2)W. period 6s	115 35	10	White round concrete tower; 40.	
18892.32 <i>F 3717.78</i>	Huxiaoshe Dao.	30° 34.9' N 122° 09.0' E	Fl.W. period 4s	131 40	10	White round concrete tower; 46.	
18892.34 <i>F 3717.79</i>	Xima Shan Dao, N.	30° 34.1' N 122° 08.4' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	85 26	7	White metal column; 33.	
18892.4 <i>F 3718.84</i>	Huangze Shan.	30° 31.8' N 122° 20.5' E	Fl.(2)W. period 6s	115 35	10	Red and white round concrete tower; 46.	
18892.45 <i>F 3718.81</i>	-Xiaoqu Shan.	30° 31.5' N 122° 15.9' E	Fl.(4)W. period 15s	525 160	15	White concrete tower; 62.	
	-RACON		C(- • - •)				
18892.48 <i>F 3718.89</i>	Xugong Dao.	30° 37.9' N 122° 16.4' E	Fl.(4)W. period 10s	95 29	7	White concrete column; 33.	
	RACON		G(- - •)				
18892.5 <i>F 3718.82</i>	Xiaoqu Zui.	30° 30.9' N 122° 15.1' E	Fl.(2)W. period 8s	39 12	4	White round metal structure; 23.	
18892.7 <i>F 3734.8</i>	Xiahai Shan.	30° 29.2' N 122° 24.8' E	Fl.(3)W. period 10s	95 29	10	White round concrete tower; 46.	
18893 <i>F 3718.8</i>	Laitou Zhi.	30° 27.7' N 122° 14.5' E	Fl.(3)W. period 12s	121 37	10	White conical concrete structure; 31.	
	RACON		Q(- - • -)				
18896 <i>F 3734</i>	Xiasanxing Shan.	30° 26.0' N 122° 31.6' E	Fl.(3)W. period 20s	259 79	22	White hexagonal tower; 87.	Visible 112° -039° . Reserve light range 8M.
	RACON		M(-)				
18900 <i>F 3728</i>	Fengchao Yan.	30° 22.3' N 122° 41.3' E	Fl.W. period 10s	86 26	10	White round concrete post; 36.	
	RACON		N(- •)				
18902 <i>F 3730</i>	Langgang Shan.	30° 26.2' N 122° 56.3' E	Fl.(4)W. period 10s	350 107	10	White round concrete structure; 48.	
	RACON		Q(- - • -)				
18902.5 <i>F 3719.8</i>	Liangxiongdi Yu.	30° 10.2' N 122° 56.7' E	Fl.W. period 2s	105 32	15	White concrete column; 46.	AIS (MMSI No 999412382).
	RACON		M(- -)				
18903 <i>F 3724</i>	Dongfu Shan, NW.	30° 08.6' N 122° 45.2' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	69 21	7	White round concrete column; 33.	
18903.1 <i>F 3723</i>	Xifu Shan, S.	30° 10.3' N 122° 42.9' E	Fl.(4)W. period 12s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 7s	26 8	4	White steel skeleton tower, black bands; 20.	
18903.3 <i>F 3721.3</i>	Yezi Shan.	30° 10.2' N 122° 40.1' E	Fl.W. period 2s fl. 0.5s, ec. 1.5s	46 14	7	White steel skeleton tower; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
18903.5 <i>F 3720.7</i>	Huangxing Dao, N.	30° 12.8' N 122° 38.8' E	Fl.(2)W. period 4s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2s	30 9	4		
18903.7 <i>F 3720.3</i>	Xiaoqing Shan.	30° 12.2' N 122° 37.2' E	Fl.R. period 4s	33 10	4	Red and white round concrete column; 33.	
18904 <i>F 3720</i>	Xiaoguishan.	30° 12.6' N 122° 35.5' E	Fl.(2)W. period 10s	246 75	18	Black round tower; 36.	Obscured 019°-039°, 096°-114° and 269°-300°. Reserve light F.W. 8M.
	RACON		O(---)				
18904.5 <i>F 3719.9</i>	Dameimei Jiao.	30° 13.7' N 122° 33.2' E	Fl.(2)R. period 6s	89 27	4	Red and white round concrete column; 33.	
18905 <i>F 3719.88</i>	Guang Jiao.	30° 13.7' N 122° 32.0' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	26 8	7	White steel skeleton tower; 26.	
18906 <i>F 3716.753</i>	Yaque Jiao.	30° 20.4' N 121° 59.2' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	26 8	4	White metal pole; 20.	
18908 <i>F 3716.8</i>	Yuxingnao.	30° 20.8' N 121° 51.5' E	Fl.(2)W. period 20s	89 27	15	Black round tower; 33.	Reserve light F.W. 8M. Horn: 2 bl. ev. 90s.
	RACON		O(---)				
18908.5 <i>F 3716.751</i>	Daxiapa Jiao.	30° 21.7' N 122° 03.6' E	Fl.W. period 2s fl. 0.5s, ec. 1.5s	49 15	4	White round metal framework tower; 13.	
18908.7 <i>F 3716.66</i>	Donghuo Shan.	30° 15.0' N 121° 43.3' E	Fl.(2)W. period 6s	180 55	7	White concrete column, red band; 26.	
18909 <i>F 3716.71</i>	Xiaochang Shan.	30° 10.0' N 122° 06.9' E	Fl.W. period 3s	85 26	9	White stone tower; 13.	
18909.1 <i>F 3716.727</i>	Ming Jiao.Hanlinshi, E. Rock.	30° 12.5' N 122° 11.0' E	Fl.(3)W. period 10s	52 16	7	White hexagonal column; 52.	
	RACON		G(--•)				
18909.3 <i>F 3716.715</i>	Laitou Jiao.	30° 09.2' N 122° 07.3' E	Fl.(3)W. period 10s	39 12	7	White hexagonal concrete structure; 33.	
	RACON		K(-•-)				
18909.5 <i>F 3716.723</i>	Liangmao Shan.	30° 07.2' N 122° 09.5' E	Fl.(2)W. period 6s	49 15	9	White stone tower; 13.	
18909.6 <i>F 3716.722</i>	Zongzi Shan.	30° 07.5' N 122° 10.2' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	85 26	7	White concrete tower; 33.	
	RACON		B(-•••)				
18909.7 <i>F 3716.736</i>	Yeya Jiao.	30° 11.6' N 122° 15.1' E	Fl.W. period 2s fl. 0.5s, ec. 1.5s	46 14	3	White steel skeleton tower; 30.	
18909.75 <i>F 3716.737</i>	Chang Jiao.	30° 13.0' N 122° 17.1' E	Fl.(3)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6.5s	43 13	4	White metal framework tower; 13.	
18909.77 <i>F 3719.75</i>	Nanmuzhuang Dao, S.	30° 13.8' N 122° 25.8' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	36 11	7	White concrete tower, red bands; 30.	
18909.8 <i>F 3716.645</i>	Northwinds, Wind Gauge Tower.	30° 21.5' N 121° 33.5' E	Fl.(2)W. period 5s	36 11	3	ISOLATED DANGER BRB, beacon, topmark; 10.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
18909.85 F 3716.78	Huang Jiao.	30° 21.6' N 121° 55.8' E	Fl.(3)W. period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4.5s	30 9	4	White round lattice beacon; 13.	
18909.9 F 3716.79	Xiaozhi Shan.	30° 20.6' N 121° 53.3' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	36 11	4	White metal post; 20.	
18910 F 3716.435	Xiaocaihua.	30° 07.1' N 121° 52.1' E	Fl.(2)W. period 4s	82 25	4	White metal column; 9	
	RACON		N(- •)				
18912 F 3716.4	Taipingshan.	30° 05.1' N 121° 49.2' E	Fl.(3)W. period 10s	285 87	16	White round tower; 29.	Reserve light F.W. 8M.
18913 F 3716.39	Daochu Shan.	30° 03.0' N 121° 49.9' E	Fl.(2)R. period 6s	49 15	4	Red and white round concrete pillar; 23.	
18916 F 3716	Qili Yu.	30° 00.0' N 121° 45.6' E	Fl.W. period 5s	167 51	18	White octagonal tower; 84.	Reserve light range 5M. Siren.
18917 F 3714.82	Shuang Jiao.	29° 58.0' N 121° 51.6' E	V.Q.(6)+L.Fl.W. period 10s	43 13	4	S. CARDINAL YB, beacon, topmark; 20.	
18919 F 3715.6	Ningbo Gang.	29° 59.0' N 121° 48.3' E	Fl.(2)W. period 5s	52 16	10	ISOLATED DANGER BRB, beacon, topmark.	
18920 F 3715.4	Dahuangmang Dao.	29° 58.5' N 121° 48.5' E	Fl.(2)W. period 6s	262 80	9	White square pyramidal stone structure; 28.	
18922 F 3714.6	Zhongzhu Shan.	29° 58.4' N 121° 47.7' E	Fl.(3)W. period 10s	154 47	10		
18928 F 3715	Changtiaozui.	29° 58.4' N 121° 45.9' E	Fl.(4)W. period 12s	59 18	10	Red and white hexagonal structure; 52.	
	RACON		Y(- • - -)				
18929 F 3715.3	-N. breakwater, head.	29° 58.7' N 121° 45.4' E	Fl.Y. period 2s	33 10	8	Column, red and white bands; 37.	
18930.1 F 3715.21	--Rear, 450 meters 260° 30' from front.	29° 58.4' N 121° 43.9' E	F.R.	108 33	5	Iron frame structure, neon red square and diamond daymark; 103.	
18930.3 F 3714.965	Zhenhai Ferry.	29° 57.0' N 121° 43.1' E	Fl.W. period 10s	39 12	10	Red and white round tower; 43.	
18932 F 3714	Luojishan.	29° 58.5' N 122° 26.9' E	Fl.(3)W.R. period 9s	131 40	W. 15 R. 7	White round tower, red bands; 22.	W. 075°-088°, R.-203°, W.-256°, R.-272°, W.-332°, obsc.-075°. Reserve light F.W. 8M.
18936 F 3712	Dongtingshan, summit.	29° 52.0' N 122° 35.0' E	Fl.W. period 10s	180 55	20	White round tower; 28.	
18937 F 3714.143	Fulimen Jiao.	29° 50.5' N 122° 20.7' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s	33 10	7	White concrete column; 26.	
18938 F 3714.008	Qiji Shan.	30° 03.3' N 122° 19.0' E	Fl.(3)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6.5s	26 8	4	White round concrete tower; 23.	
18940 F 3714.14	Taohua Dao.	29° 46.3' N 122° 18.5' E	Fl.(3)W. period 12s	361 110	15	Round structure, black and white bands; 66.	Reserve light range 7M.
	RACON		Z(- - • •)		9		
18944 F 3714.16	Xiaoshuang Shan.	29° 47.8' N 122° 14.4' E	Fl.(2)W. period 6s	55 17	10	Octagonal structure, red and white stripes; 50.	
18948 F 3714.18	Xialan Shan.	29° 48.7' N 122° 14.3' E	Fl.W. period 4s	65 20	10	Octagonal structure, black and white stripes; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
18952 F 3714.2	Liuwang Shan.	29° 50.1' N 122° 12.3' E	Fl.W. period 6s	52 16	9	White conical concrete structure; 47.	
18953 F 3714.206	Dengbu Dao.	29° 51.9' N 122° 16.7' E	Fl.(2)W. period 5s	20 6	4	ISOLATED DANGER BRB, beacon, topmark; 23.	
18953.5 F 3714.21	Diandeng Shan.	29° 52.6' N 122° 13.8' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	82 25	10	White round concrete structure; 26.	
	RACON		B(- • • •)				
18954 F 3714.148	Putuo Shan.	29° 59.1' N 122° 21.9' E	Fl.W. period 4s	243 74	18	Yellow tower.	
18955 F 3714.02	Shuilaoshuweiba.	29° 55.1' N 122° 17.8' E	Fl.(2)W. period 5s	56 17	7	Black hexagonal concrete tower, red band; 52.	
	RACON		M(- -)				
18955.5 F 3714.015	Gangpan Jiao.	29° 57.9' N 122° 22.2' E	Fl.(2)R. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	52 16	4	Red concrete column; 23.	
18956 F 3714.22	Yangxiaomao Dao.	29° 54.0' N 122° 09.1' E	Fl.(2)W. period 10s	160 49	15	White hexagonal concrete structure; 36.	Reserve light range 5M.
18957 F 3714.245	Aoshan Oil Pier.	29° 57.2' N 122° 07.8' E	Fl.R. period 2s fl. 0.5s, ec. 1.5s	43 13	4	Red fiberglass tower, white bands; 26.	
18960 F 3714.24	Zhairuo Shan.	29° 56.6' N 122° 05.7' E	Fl.W. period 4s	59 18	7	White round stone structure; 21.	
18964 F 3714.26	Loutou Jiao.	29° 56.0' N 122° 02.1' E	Fl.(3)W. period 10s	72 22	10	White hexagonal structure; 27.	Visible 260° -138°.
18965 F 3714.254	Heshang Shan.	29° 58.3' N 122° 04.3' E	Fl.G. period 4s	30 9	5	Hexagonal concrete pillar; 26.	
18966 F 3716.48	Banyang Jiao.	30° 01.0' N 121° 57.8' E	Fl.W. period 5s	62 19	10	White concrete tower.	
	RACON		X(- • • -)				
18968 F 3714.28	Tuni Zui.	29° 57.4' N 121° 57.9' E	Fl.(3)W. period 6s	46 14	7	White round structure; 23.	
18972 F 3714.3	Huangniu Jiao.	29° 57.9' N 121° 54.1' E	Fl.W. period 6s	59 18	9	White hexagonal concrete structure; 50.	
	RACON		G(- - •)				
18973 F 3714.32	-Xiehe Oil Terminal, No 1.	29° 56.1' N 121° 54.5' E	Q.R.	46 14	7	PORT (A) R, beacon, topmark; 23.	
	-RACON		Q(- - • -)				
18973.1 F 3714.33	--No. 2.	29° 56.1' N 121° 54.2' E	Mo.(C)Y. period 12s	46 14	5	SPECIAL Y, beacon, topmark; 23.	
18973.3 F 3714.34	--No. 3.	29° 55.7' N 121° 54.4' E	Fl.R. period 4s	46 14	5	PORT (A) R, beacon, topmark; 23.	
18976 F 3714.266	Daxie Dao.	29° 55.1' N 122° 00.0' E	Q.G.	33 10	7	STARBOARD (A) G, beacon, topmark; 20.	
	RACON		K(- • -)				
18976.1 F 3692.28	Shanjiaotou Dao.	29° 45.8' N 122° 00.5' E	Fl.W. period 2s	39 12	4	White hexagonal concrete column; 33.	
18977 F 3714.186	Huangjiao Tou.	29° 43.5' N 122° 13.5' E	Fl.R. period 4s	39 12	4	Red and white metal column; 23.	
	RACON		Y(- - -)				

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
18978 F 3692	Shangshuangshi.	29° 44.1' N 122° 02.6' E	Fl.R. period 4s	89 27	6	Red square stone structure; 16.	
18979 F 3691.8	Quewei Jiao.	29° 42.5' N 122° 02.5' E	Fl.(2)W. period 6s	56 17	7	White concrete tower; 31.	
	RACON		G(- - •)				
18979.05 F 3691.7	Wenzhou Zhi.	29° 42.7' N 122° 00.3' E	Fl.W. period 2s fl. 0.5s, ec. 1.5s	59 18	4	White hexagonal concrete column; 33.	
18979.1 F 3691	Xiaoyezhu Jiao.	29° 34.6' N 122° 01.1' E	Fl.(3)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2.5s	46 14	6	Red round concrete tower; 49.	
	RACON		Y(- • - -)				
18979.15 F 3690.25	Si Jiao.	29° 33.4' N 122° 04.0' E	Fl.W. period 2s fl. 0.5s, ec. 1.5s	49 15	4	White concrete column, black bands; 23.	
18980 F 3689	Nanjiu Shan.	29° 26.0' N 122° 13.2' E	Fl.(2)W. period 10s	174 53	16	White four-sided pyramidal tower; 33.	
18980.5 F 3685	Aiqi Shan.	29° 25.4' N 122° 10.3' E	Fl.(3)W. period 10s	167 51	10	White conical concrete structure; 29.	
18981 F 3684	Jiushan Liedao.	29° 16.3' N 122° 08.1' E	Fl.(2)W. period 5s	49 15	10	ISOLATED DANGER BRB, beacon, topmark.	
	RACON		N(- •)				
18981.1 F 3683.45	Dongguayan Zui.	29° 09.3' N 122° 00.6' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	26 8	4	White concrete column; 23.	
18981.3 F 3683.48	-Niluo Yu.	29° 08.0' N 122° 03.0' E	Fl.(4)W. period 6s fl. 0.4s, ec. 0.6s fl. 0.4s, ec. 0.6s fl. 0.4s, ec. 0.6s fl. 0.4s, ec. 2.6s	69 21	7	White concrete column, black bands; 33.	
18981.5 F 3682.8	Jiaowei Dao.	29° 11.7' N 121° 59.5' E	Fl.(2)W. period 6s	108 33	10	White concrete structure, red stripes; 36.	
	RACON		M(- -)				
18981.6 F 3682.285	Guangtou Jiao.	29° 05.4' N 121° 52.3' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	20 6	4	White concrete column, red bands; 23.	
18982 F 3682	Yu Shan.	28° 53.2' N 122° 16.5' E	Fl.(2)W. period 20s	338 103	25	Red and white cylindrical tower; 49.	Reserve light Fl.(2)W. 20s 15M.
	RACON		O(- - -)				
18982.5 F 3680.25	Taizhou Wan, Yang Jiao.	28° 44.4' N 121° 44.0' E	Q.(3)W. period 10s	36 11	10	E. CARDINAL BYB, beacon, topmark; 43.	
	RACON		C(- • - •)				
18983 F 3681	Dongji Dao.	28° 43.4' N 121° 56.2' E	Fl.(2)W. period 6s	299 91	16	White round stone tower; 33.	
	RACON		Y(- • - -)				
18984 F 3675.5	Xiaojaotou.	28° 28.1' N 121° 54.7' E	Fl.(2)W. period 6s	75 23	10	White square stone structure; 17.	
18992 F 3676	Taizhou Gangpan Dao.	28° 28.6' N 121° 52.5' E	Fl.R. period 3s	24 7	3	White conical stone structure; 30.	
18996 F 3674	Zhu Yu, 1 mile W. of Xiadachen Dao.	28° 25.7' N 121° 50.1' E	Fl.(3)W. period 10s	207 63	10	White round concrete structure; 32.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
19000 <i>F 3670</i>	Luo Yu.	28° 16.2' N 121° 44.0' E	Fl.W. period 3s	259 79	16	White hexagonal stone tower; 28.	Reserve light range 5M.
	RACON		B(- • • •)				
19004 <i>F 3669</i>	Yisuan Shan.	28° 12.8' N 121° 39.8' E	Fl.(3)W. period 10s	269 82	10	White conical stone tower; 33.	
19008 <i>F 3668</i>	Wailongyan.	28° 12.6' N 121° 33.3' E	Fl.W. period 4s	59 18	10	White conical stone tower; 43.	
19010 <i>F 3667</i>	Dadongjing Dao.	28° 08.0' N 121° 29.2' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	269 82	10	White round stone tower.	
19012 <i>F 3665</i>	Xialangdang Dao.	28° 04.4' N 121° 31.9' E	Fl.(3)W. period 20s	194 59	16	White stone structure, red stripes; 31.	
19016 <i>F 3664.5</i>	Qian Shan.	28° 03.2' N 121° 24.3' E	Fl.W. period 4s	148 45	10	White conical stone tower; 33.	
19018 <i>F 3660.8</i>	Beipanshan Yu.	28° 00.8' N 121° 15.8' E	Fl.(2)W. period 6s	200 61	7	White round concrete tower.	
19020 <i>F 3662</i>	Wenzhou Jia.	27° 59.0' N 120° 57.7' E	Fl.(2)W. period 6s	42 13	8	White round concrete structure; 20.	
19024 <i>F 3663.22</i>	-Current guiding dam, No. 1.	28° 01.6' N 120° 40.0' E	Mo.(P)Y. period 12s	20 6	4	SPECIAL Y, beacon, topmark.	
19028 <i>F 3663.23</i>	-No. 2.	28° 01.7' N 120° 40.9' E	Mo.(P)Y. period 12s	20 6	4	SPECIAL Y, beacon, topmark.	
19032 <i>F 3663.24</i>	-No. 3.	28° 01.8' N 120° 40.9' E	Mo.(P)Y. period 12s	20 6	4	SPECIAL Y, beacon, topmark.	
19036 <i>F 3663.25</i>	-No. 4.	28° 01.9' N 120° 40.6' E	Mo.(P)Y. period 12s	20 6	4	SPECIAL Y, beacon, topmark.	
	OUJIANG BEI KOU:						
19040 <i>F 3662.3</i>	-Qili.	27° 59.9' N 120° 52.9' E	Fl.(3)W. period 10s	43 13	8	White metal framework tower; 39.	
19048 <i>F 3662.4</i>	-Cangxia.	27° 59.9' N 120° 51.1' E	Fl.(2)W. period 6s	36 11	7		
19052 <i>F 3662.6</i>	-Longwantou.	27° 58.3' N 120° 48.2' E	Fl.(4)W. period 10s	43 13	8	White round concrete structure; 20.	
19053 <i>F 3662</i>	-Laohu Yan Spur, N. beacon.	28° 01.8' N 120° 44.1' E	Fl.W. period 1.5s	13 4	4	SPECIAL Y, beacon, topmark.	
19054 <i>F 3663</i>	--S. beacon.	28° 01.6' N 120° 44.1' E	Mo.(P)Y. period 15s	20 6	5	SPECIAL Y, beacon, topmark.	
19060 <i>F 3663.6</i>	-Shizi Jiao.	28° 01.7' N 120° 38.4' E	Fl.W. period 6s	16 5	4	Gray square stone structure; 23.	
19064 <i>F 3663.5</i>	-Xiang.	28° 01.9' N 120° 38.8' E	Fl.(2)W. period 6s	49 15	4	Red concrete structure; 23.	
19066 <i>F 3662.7</i>	Mati Shan.	28° 00.2' N 120° 47.5' E	Fl.W. period 3s	39 12	7	Beacon; 33.	
19067 <i>F 3662.8</i>	Qidu Zui.	28° 01.4' N 120° 44.6' E	Fl.(3)W. period 10s	30 9	7	White concrete column; 33.	
19068 <i>F 3661</i>	Dong Tou.	27° 57.7' N 121° 08.5' E	Fl.(2)W. period 6s	128 39	7	White round structure; 32.	
19070 <i>F 3661.2</i>	Jianzui Jiao.	28° 04.7' N 121° 08.5' E	Fl.(2)W. period 5s	43 13	7	Black beacon, red band, double ball topmark; 33.	
19072 <i>F 3661.5</i>	Huangda Zui.	27° 56.7' N 121° 02.8' E	Fl.(2)W. period 6s	46 14	7	White square metal framework structure.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
19076 <i>F 3660.4</i>	Yuan Yu.	27° 56.0' N 121° 13.3' E	Fl.(3)W. period 10s	141 43	16	White conical stone tower; 39.	
	RACON		Y(- • - -)				
19080 <i>F 3660</i>	Tasanpang Shan.	27° 52.3' N 121° 10.5' E	Fl.W. period 4s	174 53	7	White square pyramidal concrete structure; 12.	
19084 <i>F 3659</i>	Hutou Yu.	27° 50.0' N 121° 15.0' E	Fl.(2)W. period 6s	338 103	16	White square pyramidal concrete structure; 29.	
19084.5 <i>F 3657.57</i>	Qicaobitou.	27° 46.9' N 121° 04.2' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	49 15	4	Metal framework beacon; 16.	
19085 <i>F 3648.6</i>	Lizhi Shan.	27° 41.0' N 120° 55.0' E	Fl.(3)W. period 10s	292 89	10	White round concrete tower, red bands.	
	RACON		M(- -)				
19085.3 <i>F 3656</i>	Tie Jiao.	27° 40.3' N 121° 02.3' E	Fl.(3)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6.5s	92 28	7	White concrete column; 26.	
19085.5 <i>F 3648.8</i>	Beilong Shan.	27° 38.9' N 120° 57.9' E	Fl.W. period 6s	121 37	7		
19086 <i>F 3650</i>	Beijishan Liedao.	27° 37.5' N 121° 12.2' E	Fl.(3)W. period 20s	443 135	25	Red conical concrete structure; 67.	Reserve light range 15M.
19086.3 <i>F 3649.3</i>	Shangma'an Dao.	27° 27.1' N 120° 57.9' E	Fl.(3)W. period 10s	302 92	10	White round stone structure, black bands; 33.	
	RACON		Z(- - • •)				
19086.5 <i>F 3649</i>	Nanji Liedao.	27° 25.3' N 121° 04.0' E	Fl.(2)W. period 12s	203 62	18	White round tower.	
19087 <i>F 3648</i>	Xitai Shan.	27° 00.6' N 120° 41.8' E	Fl.W. period 4s	469 143	25	White hexagonal concrete structure; 80.	Reserve light range 15M.
	RACON		K(- • -)				
19090 <i>F 3644</i>	Tung-yin Tao.	26° 22.7' N 120° 30.4' E	Fl.(3)W. period 15s	318 97	11	White round tower.	Visible 270° -060° .
19090.5 <i>F 3642</i>	Liu'er.	26° 34.7' N 120° 06.2' E	Fl.(3)W. period 10s	92 28	10	White hexagonal concrete structure; 33.	
	RACON		Q(- - • -)				
19090.7 <i>F 3642.3</i>	Changcao Yu.	26° 36.7' N 120° 06.4' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	89 27	4	White square concrete tower; 26.	
19090.9 <i>F 3642.4</i>	Lotou Wei.	26° 38.9' N 120° 07.9' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	62 19	4	White square concrete tower, red bands; 26.	
19091 <i>F 3641.95</i>	Kuishan Dao.	26° 29.3' N 120° 08.0' E	Fl.W. period 4s	249 76	15		
	RACON		Z(- - • •)				
19091.2 <i>F 3641.1</i>	Heiyan Dao.	26° 23.1' N 120° 05.2' E	Fl.(3)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6.5s	151 46	10	White hexagonal concrete tower, red bands; 43.	
	RACON		C(- • - •)				
19091.3 <i>F 3641.93</i>	Ma'anzi Dao.	26° 31.8' N 120° 01.1' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	49 15	4	White square concrete tower; 26.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
19091.5 <i>F 3641.2</i>	Yang Yu.	26° 22.2' N 119° 58.2' E	Fl.(2)W. period 6s	331 101	16	White square pyramidal concrete structure; 33.	
	RACON		Y(- • - -)				
	MINJIANG KOU:						
19092 <i>F 3634.8</i>	-Rizhuang Jiao.	26° 04.5' N 119° 43.4' E	Fl.(2)W. period 6s	42 13	8	White round tower; 59.	
	-RACON		K(- • -)				
19096 <i>F 3635</i>	-Baiyun Shan Range, front.	26° 05.4' N 119° 38.3' E	Fl.W. period 1.5s	154 47	13	White concrete tower, red band; 72.	Visible 263° 45' -267° 15' .
	-RACON		O(- - -)		12		(3cm)
19100 <i>F 3635.1</i>	--Rear, 1289 meters 265° 30' from front.	26° 05.3' N 119° 37.5' E	Iso.W. period 4s	298 91	13	White concrete tower, red band; 72.	Visible 263° 45' -267° 15' .
19104 <i>F 3635.2</i>	Hujiang Dao.	26° 07.3' N 119° 38.6' E	Fl.(3)W. period 10s	75 23	7	White round brick structure; 22.	
19112 <i>F 3635.4</i>	Fudou Shan Range, common front.	26° 08.0' N 119° 38.3' E	Fl.W. period 1.5s	98 30	10	Brick structure, red and white bands; 30.	
	RACON		M(- -)				
19114 <i>F 3635.42</i>	-Rear, 2001 meters 091° from common front.	26° 08.0' N 119° 39.5' E	Iso.W. period 4s	276 84	10	Brick tower, black and white stripes; 16.	
19116 <i>F 3635.41</i>	-Rear, 1960 meters 308° from common front.	26° 08.7' N 119° 37.4' E	Iso.W. period 4s	207 63	10	White brick structure; 30.	
19120 <i>F 3635.7</i>	-Jinpai Men.	26° 08.1' N 119° 35.6' E	Fl.W. period 5s	26 8	6	White pyramidal stone structure; 33.	
19122 <i>F 3635.65</i>	Dalu Jiao.	26° 05.5' N 119° 32.3' E	Fl.(2)W. period 5s	23 7	3	ISOLATED DANGER BRB, beacon, topmark.	
19122.2 <i>F 3635.723</i>	Shimen, W.	26° 02.7' N 119° 30.5' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	33 10	4	White concrete column, red bands; 26.	
19122.3 <i>F 3635.731</i>	Songmen.	26° 02.0' N 119° 30.2' E	Fl.(3)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6.5s	33 10	4	White concrete column, red bands; 26.	
19123 <i>F 3635.735</i>	Fuzhou Gang.	26° 01.8' N 119° 30.0' E	Fl.(2)W. period 5s			ISOLATED DANGER BRB, beacon, topmark.	
19124 <i>F 3628</i>	Wu-ch'iu Hsu.	24° 59.8' N 119° 27.2' E	Fl.W. period 5s	285 87	11	Black round tower; 64.	
19128 <i>F 3634.4</i>	-Qixing Jiao.	26° 04.9' N 119° 49.6' E	Fl.W. period 6s	39 12	10	White conical concrete structure; 53.	
	-RACON		X(- • • -)				
19132 <i>F 3634</i>	Tungchu Tao.	25° 58.1' N 119° 59.1' E	Fl.(1+2)W. period 20s	256 78	17	White round tower; 64.	Visible 150° -360° . Gun.
19132.5 <i>K 3634.2</i>	Bozhou Dao.	25° 58.6' N 119° 43.1' E	Fl.(3)W. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	66 20	10	White square concrete structure.	
19133 <i>F 3633.3</i>	Li Yu.	25° 45.7' N 119° 48.2' E	Fl.(3)W. period 10s	82 25	7	Hexagonal concrete structure, red and white stripes; 40.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
19133.2 <i>F 3633.9</i>	Shuangpi.	25° 47.0' N 119° 39.6' E	Fl.(2)W. period 6s	95 29	10	White square concrete structure; 29.	
	RACON		G(- - •)				
19133.4 <i>F 3633.8</i>	Songxia Gang, Xiluo.	25° 45.3' N 119° 38.9' E	Fl.R. period 4s	174 53	2	White conical concrete structure; 26.	Channel marked by articulated lights and buoys.
19133.5 <i>F 3633.87</i>	Zhutou Jiao.	25° 45.1' N 119° 39.5' E	V.Q.(9)W. period 10s	23 7	4	W. CARDINAL YBY, beacon, topmark; 30.	
19133.6 <i>F 3633.4</i>	-Gu Yu.	25° 40.7' N 119° 37.4' E	Fl.(2)W. period 4s	108 33	7	White square concrete structure; 41.	
19134 <i>F 3632.5</i>	Dongxiang Dao.	25° 36.2' N 119° 54.0' E	Fl.(3)W. period 10s	157 48	16	Round concrete structure, black and white bands; 54.	Reserve light range 7M.
19135 <i>F 3632.3</i>	Xiaosha Yu.	25° 28.5' N 119° 52.3' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	98 30	4	White square concrete tower, black bands; 26.	
19136 <i>F 3632</i>	Niushan Dao.	25° 26.2' N 119° 56.2' E	Fl.(2)W. period 12s	295 90	24	White octagonal stone tower; 75.	Reserve light range 15M.
	RACON		Z(- - ••)				
19136.4 <i>F 3633.15</i>	Bai Yu.	25° 19.0' N 119° 33.5' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	115 35	10	White masonry cone; 30.	AIS (MMSI No 999412532).
	RACON		B(- •••)				
19136.5 <i>F 3633.17</i>	Lu Yu Reef, S.	25° 19.4' N 119° 28.6' E	Fl.W. period 6s	33 10	10	Red and white concrete structure; 37.	
19136.7 <i>F 3633.025</i>	Xiaojia Dao.	25° 17.5' N 119° 46.2' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	72 22	4	White square concrete tower, black bands; 26.	
19137 <i>F 3627.5</i>	Jian Yu.	24° 58.1' N 119° 01.9' E	Fl.(3)W. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	72 22	10	Black round stone tower, white bands; 26.	
	RACON		G(- - •)				
19137.1 <i>F 3627.52</i>	-S.	24° 58.0' N 119° 01.9' E	Fl.W. period 10s	217 66	15	White hexagonal concrete tower, red bands; 52.	
19138	Meizhou Wan, RACON.	25° 04.6' N 119° 02.5' E	N(- •)				(3cm)
19139 <i>F 3627.8</i>	Meizhou Dao, E.	25° 04.7' N 119° 09.0' E	Fl.W. period 6s	36 11	4	Gray pile.	
19139.9 <i>F 3627.905</i>	Beiding Yu.	25° 08.3' N 119° 23.5' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	62 19	4	White hexagonal concrete column, red bands; 23.	
	RACON		C(- • - •)				
19140.1 <i>F 3627.908</i>	Nanri Dao.	25° 09.5' N 119° 31.1' E	Fl.(3)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6.5s	102 31	4	White concrete column, red bands; 26.	
19141 <i>F 3627</i>	Dazou Yan.	24° 53.0' N 118° 59.0' E	Fl.W. period 15s	246 75	18	Red and white concrete structure.	
19144 <i>F 3626</i>	Ch'ung-wu, SW. corner of city wall.	24° 53.0' N 118° 55.0' E	F.W.	118 36	10	White square brick structure.	Fishing light.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
19148 <i>F 3625</i>	Niao Yu.	24° 50.2' N 118° 49.6' E	Fl.(2)W. period 6s	88 27	10	Round black and white stone tower; 22.	
	RACON		Z(- - • •)				
19150 <i>F 3620.8</i>	Xiangzhi Jiao.	24° 46.4' N 118° 46.6' E	Fl.(3)W. period 15s	167 51	16	Hexagonal brick structure, red and white stripes; 53.	Reserve light range 6M.
19150.4 <i>F 3620.4</i>	Shenhu Wan.	24° 38.2' N 118° 41.0' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	56 17	10	Round tower, red and white bands.	
19150.6 <i>F 3620.25</i>	Baiyang.	24° 32.4' N 118° 33.1' E	Fl.W. period 4s	62 19	10		
19150.8 <i>F 3612.2</i>	Tu Dao.	24° 24.4' N 118° 04.0' E	Fl.(2)W. period 6s	74 22	7	White round tower, black bands; 34.	
19151.6 <i>F 3612.3</i>	Qing Jiao.	24° 25.1' N 118° 03.1' E	Fl.(3)W. period 10s	40 12	7	White round tower, red bands; 59.	
	RACON		B(- • • •)				
19151.7 <i>F 3612.57</i>	Mu Yu.	24° 24.6' N 118° 00.0' E	Q.W.	33 10	4	N. CARDINAL BY, beacon, topmark; 26.	
19152 <i>F 3613</i>	Huang Jiao.	24° 26.6' N 118° 04.4' E	Fl.(2)R. period 6s	46 14	3	Red octagonal concrete structure; 10.	
19156 <i>F 3613.5</i>	Zhangyu Jiao.	24° 27.0' N 118° 04.2' E	Fl.R. period 4s	25 8	3	PORT (A) R, tower, topmark; 30.	
19160 <i>F 3614</i>	Jiangxin Jiao.	24° 27.1' N 118° 04.1' E	Fl.(2)R. period 6s	26 8	3	PORT (A) R, tower, topmark; 30.	
19162 <i>F 3612.5</i>	Muquian Jiao.	24° 26.4' N 118° 02.6' E	Fl.(2)W. period 5s	39 12	7	ISOLATED DANGER BRB, beacon, topmark; 56.	
	RACON		N(- •)				
19163 <i>F 3614.5</i>	Niaoqi Jiao.	24° 27.5' N 118° 03.6' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	23 7	7	White concrete column, green bands; 16.	
19164 <i>F 3615.5</i>	Dayu, on S. end of island.	24° 27.6' N 118° 02.7' E	Fl.W. period 4s	144 44	7	White hexagonal tower, red stripes; 43.	
19168 <i>F 3615</i>	Hou Yu.	24° 28.1' N 118° 03.4' E	Fl.(2)W. period 6s	98 30	7	White round tower, red bands; 41.	
	RACON		K(- • -)				
19172 <i>F 3616</i>	Manyu Jiao.	24° 28.6' N 118° 03.7' E	Fl.W. period 4s	31 9	7	Green hexagonal structure; 46.	
19174 <i>F 3617</i>	Niufen Jiao.	24° 29.9' N 118° 04.3' E	Fl.(2)G. period 6s	16 5	7	STARBOARD (A) G, beacon, topmark.	
19175 <i>F 3618.385</i>	Wutongdao.	24° 31.7' N 118° 11.4' E	Fl.(3)W. period 15s	272 83	16	White round concrete pillar; 226.	
19176 <i>F 3620</i>	Pei-ting Tao.	24° 26.0' N 118° 30.3' E	Fl.(2)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 8s	119 36	11	White round brick tower; 57.	Gun: 1 report in answer to vessel's fog signal, 2 reports 5 minutes later, repeated while vessel's fog signal continues to be heard
19180 <i>F 3612</i>	-Ta-tan Tao, S. side.	24° 23.1' N 118° 10.1' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	299 91	10	White iron hut; 10.	
19184 <i>F 3610</i>	-Qing Yu.	24° 21.9' N 118° 07.6' E	Fl.(4)W. period 20s	135 41	18	White octagonal tower, red stripes; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
19186 <i>F 3609</i>	-Jiuzhe Jiao.	24° 20.2' N 118° 09.7' E	Fl.(2)W. period 6s	43 13	10	White round tower, red bands; 46.	
	-RACON		M(- -)				
19186.2 <i>F 3609.2</i>	Gui Jiao.	24° 20.2' N 118° 07.4' E	Fl.W. period 4s	43 13	7	White octagonal concrete structure; 33.	
19186.3 <i>F 3609.3</i>	Ta Jiao.	24° 21.4' N 118° 05.9' E	Fl.(2)W. period 6s	69 21	7		
19188 <i>F 3605</i>	Nanding Dao.	24° 08.0' N 118° 02.6' E	Fl.W. period 5s	197 60	10	Round stone structure, black and white bands; 33.	
	RACON		X(- • • -)				
19192 <i>F 3604</i>	Qian Yan.	23° 54.5' N 117° 51.8' E	Fl.W. period 4s	85 26	10	White hexagonal structure; 38.	
19193 <i>F 3603.6</i>	Waiying.	23° 47.0' N 117° 44.0' E	Fl.(2)W. period 6s	79 24	10		
	RACON		G(- - •)				
19196 <i>F 3606</i>	Tung-ting Tao, Tungting Hsu, summit.	24° 09.8' N 118° 14.2' E	Fl.W. period 10s	226 69	11	Round black tower; 63.	Gun: 1 report in answer to vessel's fog signal. 2 reports 5 minutes later, repeated while vessel's fog signal continues to be heard.
19197 <i>F 3607</i>	Zhenhai Jiao.	24° 16.2' N 118° 07.9' E	Fl.(2)W. period 6s	361 110	24	White hexagonal concrete structure; 74.	Reserve light range 15M.
19200 <i>F 3603</i>	Gulei Tou.	23° 43.2' N 117° 35.2' E	Fl.(2)W. period 10s	374 114	24	White round concrete structure; 77.	Reserve light range 15M.
19202 <i>F 3600.3</i>	Luci Jiao.	23° 42.2' N 117° 30.0' E	Fl.W. period 2s	20 6	5	White concrete column, red bands; 16.	
19204 <i>F 3598.5</i>	Shih Yu.	23° 34.7' N 117° 27.0' E	Fl.W. period 5s	180 55	9	Square concrete structure; 10.	
19205 <i>F 3598</i>	Xiongdi Yu.	23° 31.9' N 117° 41.3' E	Fl.(3)W. period 10s	240 73	16	Red and white hexagonal stone tower; 40.	Reserve light range 6M.
	RACON		M(- -)				
19206 <i>F 3587.7</i>	Nanpeng Liedao.	23° 15.7' N 117° 17.0' E	Fl.W. period 12s	302 92	24	White round tower; 75.	
	RACON		K(- • -)				
19206.3 <i>F 3587.74</i>	Sancongya.	23° 24.2' N 117° 08.2' E	Fl.W. period 8s	253 77	18	White concrete tower, red stripes; 98.	
19206.5 <i>F 3587.625</i>	Huafeng.	23° 33.9' N 117° 07.9' E	L.Fl.W. period 6s fl. 2s, ec. 4s	66 20	10	Red round metal dolphin; 43.	
19207 <i>F 3595.7</i>	Zhe Lin.	23° 32.5' N 117° 03.7' E	Fl.(2)W. period 6s	177 54	15		
19208 <i>F 3588</i>	Biao Jiao.	23° 14.2' N 116° 48.3' E	Fl.W. period 8s	200 61	20	White round tower; 51.	Horn: 1 bl. ev. 20s (bl. 5s, si. 15s).
	RACON		K(- • -)				
19210 <i>F 3588.5</i>	Guang'ao Gang, LPG terminal.	23° 12.3' N 116° 47.1' E	L.Fl.W. period 6s	82 25	10	White round metal tower; 52.	
19216 <i>F 3592</i>	De Zhou.	23° 19.5' N 116° 45.4' E	Fl.W. period 5s	242 74	18	White tower; 74.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
SHANTOU GANG:							
19223 <i>F 3587.43</i>	-Lanchangdukou breakwater, head.	23° 24.9' N 116° 51.4' E	Q.W.	43 13	5	White metal tower, red bands; 22.	
19224 <i>F 3593</i>	-No. 1 Range, front.	23° 19.5' N 116° 45.4' E	F.R.	108 33	7	White round structure, red stripe; 54.	
-RACON			B(- • • •)				
19224.1 <i>F 3593.1</i>	--Rear, 1,620 meters 322° from front.	23° 20.2' N 116° 44.8' E	F.R.	157 48	7	White round structure, red stripe; 133.	
19229 <i>F 3589.2</i>	-Submerged breakwater, head.	23° 17.2' N 116° 47.8' E	V.Q.(6)+L.FI.W. period 10s	27 8	5	S. CARDINAL YB, beacon, topmark.	
19230 <i>F 3589</i>	-Chi Yu.	23° 16.9' N 116° 47.3' E	Fl.(2)W. period 6s	56 17	5	White concrete structure; 9.	
19231 <i>F 3589.4</i>	-Breakwater, head.	23° 18.4' N 116° 46.8' E	Fl.G. period 4s	24 7	5	STARBOARD (A) G, beacon, topmark.	
19232 <i>F 3590</i>	Chien Shih, on summit.	23° 18.9' N 116° 45.6' E	Fl.W. period 4s	39 12	4	White concrete structure; 7.	
19234 <i>F 3592.3</i>	Lu Yu, S. side.	23° 19.5' N 116° 45.3' E	F.R.	22 7	3	White iron framework structure; 16.	
19236 <i>F 3595</i>	Shantou Range No. 2, front.	23° 21.5' N 116° 42.8' E	F.R.	72 22	4	White iron framework structure; 46.	
19236.1 <i>F 3595.1</i>	-Rear, 1,050 meters 311° from front.	23° 21.8' N 116° 42.3' E	F.FI.R. period 2s	128 39	4	White iron framework structure; 85.	
19240 <i>F 3594</i>	-Lu Yu Danger Range, front.	23° 19.6' N 116° 45.2' E	F.W.	115 35	5	White concrete structure, triangular daymark, point up; 13.	Lights in line 127° indicate rocks on S. side of Ma Yu and SW. extremity of fish stakes on which fishing lights shown.
19240.1 <i>F 3594.1</i>	--Rear, 243 meters 127° from front.	23° 19.6' N 116° 45.3' E	F.W.	164 50	5	White concrete structure, triangular daymark, point down; 23.	
19244 <i>F 3595.2</i>	-No. 3 Range, front.	23° 21.2' N 116° 40.9' E	F.R.	92 28	4		
19244.1 <i>F 3595.21</i>	--Rear, 1327 meters 283° from front.	23° 21.4' N 116° 40.1' E	F.FI.R. (vert.) period 3s	134 41	4	White metal framework structure; 33.	3 lights (vert.): 1 FI.R., 2 F.R.
19249 <i>F 3595.3</i>	Gui Yu.	23° 20.2' N 116° 38.4' E	Fl.(2)W. period 6s	89 27	10	White iron framework tower; 46.	
19264 <i>F 3586</i>	Shibeishan Jiao.	22° 56.4' N 116° 29.7' E	Fl.W. period 15s	223 68	22	Concrete tower; 195.	
RACON			C(- • - •)				
19272 <i>F 3585</i>	Jiazi Jiao.	22° 49.3' N 116° 05.8' E	Fl.W. period 9s	256 78	18	White square brick tower; 26.	Obscured 250°-070°.
19276 <i>F 3584</i>	Tianwei Jiao.	22° 44.7' N 115° 48.8' E	Fl.W. period 7s	272 83	18	Gray hexagonal structure; 20.	
19280 <i>F 3582</i>	Zhelang Jiao.	22° 39.0' N 115° 34.2' E	Fl.W. period 8s	131 40	18	White round brick structure; 20.	
19284 <i>F 3581.3</i>	Shan-Wei.	22° 46.7' N 115° 20.0' E	Fl.W. period 6s	31 9	9	White round concrete structure; 20.	
19286 <i>F 3581.35</i>	-Pier.	22° 46.9' N 115° 20.6' E	Fl.W. period 20s	49 15	10	White metal framework structure; 36.	
19288 <i>F 3581</i>	Fuji Jiao.	22° 34.2' N 114° 54.3' E	Fl.W. period 13s	715 218	24	White round tower; 80.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
19288.5 <i>F 3581.284</i>	Tiezchen Jiao.	22° 32.7' N 114° 52.2' E	Fl.W. period 5s	49 15	6	White round concrete structure.	
19289	Daya Wan.	22° 35.1' N 114° 42.9' E	L.Fl.W. period 8s	213 65	10	Concrete tower; 76.	
	RACON		G(- - •)				
19289.5 <i>F 3581.228</i>	Xiaochi Zhou.	22° 38.4' N 114° 38.6' E	Fl.W. period 8s	144 44	10	White round concrete structure; 26.	
19290 <i>F 3580.98</i>	Qing Zhou.	22° 24.3' N 114° 40.0' E	Fl.W. period 6s	351 107	18	White round concrete tower; 64.	
	RACON		K(- • -)				
19292 <i>F 3578.3</i>	Mirs Bay, Shek Ngau Chau.	22° 28.0' N 114° 26.0' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	85 26	12	White concrete tower.	
19296 <i>F 3578.4</i>	-Wong Mau Chau.	22° 27.0' N 114° 24.0' E	Fl.R. period 5s	75 23	5	White square concrete tower; 16.	
19300 <i>F 3580.95</i>	Fan Tsang Chau.	22° 22.0' N 114° 23.3' E	Fl.(2)W. period 6s		5	White column; 12.	Obscured 250° -008° .
19306 <i>F 3580.9</i>	Fu Tau Pun Chau, NW. end.	22° 20.0' N 114° 22.0' E	Fl.(4)W. period 15s	24 7	3	White concrete tower; 13.	
19310 <i>F 3580.93</i>	Wave Rock.	22° 20.0' N 114° 22.0' E	Q.R.	13 4	2	White column; 7.	
19312 <i>F 3580.94</i>	Victor Rock.	22° 18.0' N 114° 25.5' E	Mo.(U)W. period 15s		10	Yellow beacon.	AIS. Horn: Mo.(U) 30s.
19314 <i>F 3580.88</i>	Ki Yan Siak.	22° 22.0' N 114° 20.0' E	Fl.W. period 5s	26 8	5	White concrete structure.	
19318 <i>F 3580.6</i>	Ma Chai Pai.	22° 20.0' N 114° 20.0' E	Q.R.	12 4	1	White concrete column; 9.	
19322 <i>F 3580.7</i>	Kiu Tsui Pai.	22° 21.7' N 114° 17.1' E	Fl.(2)W. period 10s	25 8	5	White concrete tower.	
19326 <i>F 3578</i>	Waglan Island.	22° 10.8' N 114° 18.2' E	Fl.(2)W. period 20s	226 69	24	White round metal tower, red top, white lantern; 52.	Visible 112° -095° . Shown by day when fog signal is operating. Horn: 2 bl. ev. 60s.
	-RACON		K(- • -)				
19330 <i>F 3576</i>	Hok Tsui.	22° 12.5' N 114° 15.5' E	Fl.W. period 15s	197 60	20	White stone tower.	
19334 <i>F 3575.6</i>	Ninepin Island, N. end.	22° 16.0' N 114° 21.0' E	Fl.W.R. period 10s fl. 1s, ec. 9s	114 35	W. 10 R. 7	White square concrete tower; 16.	W058° 30' -212° R.-299° 30' , obsc.-058° 30' .
19338 <i>F 3575.8</i>	Jam Pan Wan.	22° 16.2' N 114° 18.2' E	Fl.G. period 3s	43 13	3	White column.	
19342 <i>F 3574</i>	Tung Lung Island.	22° 14.4' N 114° 17.3' E	Fl.(3)W.R. period 10s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 4s	184 56	W. 19 R. 10	White structure; 7.	R. 237° -264° 30' (covering Ninepin Group), W.- 137° 30' , obscured elsewhere. Horn: 3 bl. ev. 60s (bl. 5s, si. 5s, bl. 5s, si. 5s, bl. 5s, si. 35s). Aero Radiobeacon 150 meters N.
19346	Tathong Channel, <i>Buoy TCS1.</i>	22° 13.2' N 114° 20.2' E	L.Fl.W. period 10s			SAFE WATER RW, pillar, topmark.	
19349 <i>F 3575.4</i>	-Tai Long Pai.	22° 14.0' N 114° 16.0' E	Fl.(4)R. period 15s fl. 0.4s, ec. 1s fl. 0.4s, ec. 1s fl. 0.4s, ec. 1s fl. 0.4s, ec. 10.4s	45 14	5	Concrete tripod, red and white checkers.	Radar reflector.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
19352 F 3573.6	-Ngai Ying Pai, No. 91.	22° 14.6' N 114° 16.8' E	Fl.W. period 1.5s	39 12	6	White concrete tower.	
19353 F 3575	-Tai Miu Wan, jetty, head.	22° 15.0' N 114° 17.0' E	Q.W.	23 7	1	Galvanized column.	
19355 F 3572	-Hak Kok Tau.	22° 15.7' N 114° 15.4' E	Fl.(2)W.R. period 10s fl. 0.8s, ec. 1.5s fl. 0.8s, ec. 6.9s	163 50	W. 15 R. 12	White tower on dwelling; 20.	W. 156° 30' -337° , R. elsewhere. Aero.Q.R. marks summit close W.
19358 F 3573	-Fat Tau Chau (Junk Island).	22° 17.0' N 114° 16.0' E	Fl.(3)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2.5s	66 20	9	White concrete structure; 15.	
19364 F 3571.8	-Chi Wan, breakwater.	22° 16.4' N 114° 14.7' E	Fl.R. period 3s	20 6	3	White metal column.	
19367 F 3571.72	--Pier.	22° 16.4' N 114° 14.7' E	Fl.G. period 3s	20 6	2	White metal column.	
19370 F 3570	Eastern Fairway, A Kung Ngam.	22° 17.2' N 114° 13.9' E	Fl.R. period 5s	37 11	11	Red concrete tripod; 29.	Aero.F.Y. marks summit close SE.
19373 F 3571.5	--Typhoon shelter.	22° 17.2' N 114° 13.7' E	Fl.R. period 3s	23 7	3	White tower.	Fl.G. 3s, Fl.R. 3s and Q.R. mark inner breakwaters.
19373.5	---E. Entrance, on dolphin.	22° 17.0' N 114° 14.0' E	Fl.(2)W. period 10s	16 5	3	White beacon.	
19376 F 3568	-Sam Kok Tsui.	22° 17.3' N 114° 14.2' E	Fl.G. period 3s	29 9	5	Green pillar; 10.	
19379 F 3567	--Typhoon Shelter, breakwater.	22° 18.0' N 114° 14.0' E	Fl.R. period 3s	26 8	3	Red and white pillar; 20.	
19379.5 F 3566	---On shore, breakwater, SE.	22° 17.4' N 114° 14.2' E	Fl.G. period 3s	28 9	3		
19381 F 3569	-Lei Yue Mun.	22° 17.5' N 114° 13.9' E	Q.R.	16 5	1	White post on white beacon.	Radar reflector.
19386 F 3562.5	-Kwun Tong Typhoon Shelter, breakwater, E. head.	22° 18.4' N 114° 13.2' E	Fl.R. period 3s	23 7	3	White structure.	
19386.3 F 3562.55	--W. end.	22° 18.3' N 114° 13.1' E	F.R.	23 7	3	White structure.	Q.R. marks N. end of inner breakwater.
19386.6 F 3562.6	--E. breakwater, head.	22° 18.4' N 114° 13.2' E	Fl.G. period 3s	23 7	3	White structure.	
19389 F 3560.5	Kowloon Bay, To Kwa Wan Typhoon shelter, E.	22° 18.7' N 114° 12.1' E	Fl.R. period 3s	25 8	3	White structure.	
19389.2 F 3560.55	-S.	22° 18.6' N 114° 11.8' E	Fl.G. period 3s	25 8	3	White structure.	4 F.R. mark limits of anchoring prohibited area close SW.
19389.4 F 3560.6	-Middle.	22° 18.7' N 114° 11.8' E	Fl.R. period 3s	25 8	3	White structure.	
19389.6 F 3560.65	-N.	22° 18.8' N 114° 11.7' E	Fl.G. period 3s	25 8	3	White structure.	
19400 F 3551.2	-Wan Chai, entrance, E. side.	22° 17.1' N 114° 10.9' E	F.R.	22 7	3	White metal framework tower.	
19400.1 F 3551.4	--Entrance, E. side.	22° 17.1' N 114° 10.9' E	Fl.R. period 3s	24 7	5	White concrete tower.	
19400.2 F 3551	--W. side of entrance.	22° 17.1' N 114° 10.9' E	Fl.G. period 3s	23 7	3		
19400.3 F 3553.3	-W. Arm, Typhoon Anchorage.	22° 17.1' N 114° 10.9' E	Fl.G. period 3s	21 6	2	White column; 13.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
19400.4 F 3553	-N. Arm, W. end.	22° 17.1' N 114° 11.0' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	16 5	4	White metal column.	
19400.5 F 3553.6	-E. Arm.	22° 17.3' N 114° 11.2' E	Fl.R. period 3s	16 5	2	White column.	
19405 F 3576.6	Poi Toi Island.	22° 09.4' N 114° 15.5' E	Fl.(2)W. period 10s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 7.2s	220 67	18	White square building.	
19410 F 3577	Bluff Point.	22° 12.0' N 114° 13.0' E	Fl.(5)W. period 30s	220 67	20	White concrete tower; 10.	
19412 F 3577.2	Un Kok.	22° 11.0' N 114° 09.0' E	Fl.W. period 5s	116 35	10	White concrete tower; 13.	
19415 F 3576.8	Lo Chau, NW. end.	22° 11.0' N 114° 14.0' E	Fl.W.R. period 3s	122 37	W. 10 R. 8	White concrete structure; 27.	R. 000° -034°, W.-000° .
19417	E. Lamma Channel, <i>Buoy LCS1.</i>	22° 09.3' N 114° 12.7' E	L.Fl.W. period 10s			SAFE WATER RW, pillar.	Radar reflector.
19420 F 3577.1	-Ngan Chau.	22° 12.8' N 114° 11.1' E	Al.Fl.W.R.W. period 10s	92 28	W. 11 R. 8	White square building.	
19421.1 F 3577.3	-SW.	22° 09.2' N 114° 06.0' E	Mo.(U)W. period 15s		13		Wind monitoring station.
19422 F 3577.4	-Wong Chu Kok.	22° 12.6' N 114° 09.5' E	Fl.(4)W. period 20s fl. 0.2s, ec. 3.1s fl. 0.2s, ec. 3.1s fl. 0.2s, ec. 3.1s fl. 0.2s, ec. 9.9s	90 27	10	White concrete tower; 13.	
19425 F 3577.68	-Ap Lei Pai.	22° 14.0' N 114° 10.0' E	Fl.W. period 15s fl. 1s, ec. 14s	16 5	5	White concrete tower.	
19427 F 3577.84	-Aberdeen Harbor, E. entrance, E. breakwater.	22° 14.3' N 114° 09.8' E	Fl.G. period 3s	21 6	2	White column; 10.	
19427.5 F 3577.8	--W. breakwater.	22° 14.2' N 114° 09.8' E	Fl.R. period 3s	21 6	2	White column; 10.	
19430 F 3577.7	--W. entrance.	22° 15.0' N 114° 09.0' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	21 6	2	White column; 10.	
19431 F 3577.86	--Wong Nei Pai.	22° 15.0' N 114° 10.0' E	Fl.(2)W. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	16 5	5	White metal column.	
19432 F 3577.64	-Lung Shan Pai.	22° 14.5' N 114° 08.6' E	Fl.(3)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2.5s	33 10	7	White tower; 19.	4 F.R. mark limits of submarine cable area in vicinity.
19437 F 3577.6	-Fo Yeuk Chau, W. end of island.	22° 15.0' N 114° 08.0' E	Fl.W. period 1.5s	36 11	5	White concrete tower; 36.	
19442 F 3577.44	-NE. Lamma Island.	22° 14.3' N 114° 07.3' E	Fl.W. period 5s	43 13	6	White concrete tower.	Visible 122° -315° . 4 F.R. mark limits of submarine cable area in vicinity.
19445 F 3537.8	-Kong Sin Wan.	22° 15.8' N 114° 07.5' E	Q.Y.	16 5	1	SPECIAL Y, column, topmark.	
19460 F 3538	Tsing Chau.	22° 17.0' N 114° 07.0' E	Fl.W. period 10s fl. 0.4s, ec. 9.6s	121 37	16	White round tower; 58.	Visible 277° -186° . F.R. lights mark the piers in Hong Kong harbor.
19473 F 3548	--China Ferry Terminal, breakwater, No. 1.	22° 18.1' N 114° 09.8' E	Fl.R. period 3s	25 8	3	White column.	

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CHINA							
19473.3 <i>F 3548.2</i>	--No. 2.	22° 18.1' N 114° 09.8' E	Fl.G. period 3s	25 8	3	White column.	
19473.6	--N. breakwater.	22° 18.0' N 114° 10.0' E	Fl.R. period 3s	22 7	3	White tubular column.	
19476 <i>F 3545.4</i>	-Yau Ma Tei Typhoon Shelter, N. entrance, N. side.	22° 19.0' N 114° 09.3' E	Fl.R. period 3s	26 8	3	White column.	
19476.2 <i>F 3545.55</i>	--N. entrance, S. side.	22° 18.9' N 114° 09.2' E	Fl.G. period 3s	26 8	3	White column.	
19476.4 <i>F 3545.7</i>	--S. entrance, N. side.	22° 18.4' N 114° 09.3' E	Fl.R. period 3s	26 8	3	White column.	
19476.6 <i>F 3545.75</i>	---S. side.	22° 18.3' N 114° 09.2' E	Fl.G. period 3s	26 8	3	White structure.	
19480 <i>F 3541.3</i>	-Naval Typhoon Shelter, W. breakwater.	22° 19.5' N 114° 08.6' E	Fl.G. period 3s	23 7	2	White tubular structure.	
19480.5 <i>F 3541</i>	--E. breakwater, head.	22° 19.5' N 114° 08.7' E	Fl.R. period 3s	23 7	2	White column; 13.	F.R. shown near root.
19482 <i>F 3540.8</i>	-Naval Base, E. breakwater.	22° 18.9' N 114° 08.1' E	Fl.G. period 3s	19 6	3		
19482.1 <i>F 3540.85</i>	--W. breakwater.	22° 18.9' N 114° 08.0' E	Fl.R. period 3s	19 6	3		Head of breakwater marked by Q.R. 6m 1M.
19483 <i>F 3540.7</i>	--Range, front.	22° 19.2' N 114° 08.0' E	Q.W.	78 24	3	Black and white beacon, can topmark.	
19483.1 <i>F 3540.75</i>	---Rear, 100 meters 349° 30' from front.	22° 19.2' N 114° 08.0' E	Iso.W. period 3s	95 29	3	Black and white beacon, can topmark.	
RAMBLER CHANNEL:							
19483.2 <i>F 3537.4</i>	-Tsing Yi S. Marine Basin. No. 1.	22° 19.6' N 114° 06.8' E	Fl.G. period 3s	23 7	3	White column.	
19483.25 <i>F 3537.41</i>	---No. 2.	22° 19.6' N 114° 06.7' E	Fl.R. period 3s	23 7	3	White column.	
19483.3 <i>F 3537.432</i>	-Stonecutter's Bridge, S. side.	22° 19.5' N 114° 07.1' E	Iso.W. period 4s	269 82	4		Q.R. and Q.G. mark limits of northbound underpass.
19483.31 <i>F 3537.435</i>	--N. side.	22° 19.6' N 114° 07.1' E	Iso.W. period 4s	269 82	4		Q.R. and Q.G. mark limits of southbound underpass.
19483.5 <i>F 3535.666</i>	Rambler Channel, Tsing Yi Bridge, S. approach, W. side.	22° 20.9' N 114° 06.8' E	F.R.				
19483.6 <i>F 3535.668</i>	-E. side.	22° 20.9' N 114° 06.8' E	F.R.				
19484.1 <i>F 3535.42</i>	-N. side.	22° 20.9' N 114° 06.8' E	Iso.W. period 4s	71 22	5		Q.R. and Q.G. mark limits of southbound underpass.
19485 <i>F 3535.78</i>	-Kwai Tsing Bridge, S. side.	22° 21.0' N 114° 06.8' E	Iso.W. period 4s	85 26	3		Q.R. and Q.G. mark limits of northbound underpass.
19485.1 <i>F 3535.72</i>	--N. side.	22° 21.0' N 114° 06.8' E	Iso.W. period 4s	79 24	3		Q.R. and Q.G. mark limits of southbound underpass.
19486	-Tsing Lai Bridge, S. side.	22° 21.4' N 114° 06.7' E	Iso.W. period 4s	69 21	3		Q.R. and Q.G. mark limits of northbound underpass.
19486.1	--N. side.	22° 21.5' N 114° 06.6' E	Iso.W. period 4s	59 18	3		Q.R. and Q.G. mark limits of southbound underpass.
19488 <i>F 3534.2</i>	-Typhoon Shelter, N. entrance, N. side.	22° 21.5' N 114° 06.7' E	Fl.R. period 3s	16 5	3	White metal column.	
19488.2 <i>F 3534.22</i>	--N. entrance, S. side.	22° 21.5' N 114° 06.7' E	Fl.G. period 3s	23 7	2	White metal column.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
19488.4 F 3534.24	--S. entrance, N. side.	22° 21.2' N 114° 06.8' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	23 7	2	White column.	
19488.6 F 3534.3	--S. entrance, S. side.	22° 21.2' N 114° 06.8' E	Fl.G. period 3s	23 7	2	White column.	
19492 F 3534	-Channel Rock.	22° 22.0' N 114° 07.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	13 4	6	Black and white post, black triangular daymark, point up.	
19496 F 3536.5	-Tsing Tsuen Bridge, center.	22° 21.6' N 114° 06.6' E	Iso.W. period 4s	89 27	7	On span.	On N. and S. sides. Q.R. and Q.G. mark limits of each underpass. Bridge piers to N. marked by F.R.
19498	Ting Kau Bridge, center.	22° 21.7' N 114° 04.9' E	Iso.W. period 4s	218 66	5		On E. and W. sides. Q.R. and Q.G. mark limits of each underpass. Bridge piers N. and S. marked by F.R.
19504 F 3537.6	Kau Yi Chau.	22° 17.2' N 114° 04.8' E	Fl.(2)W.R. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	30 9	W. 11 R. 8	White concrete framework tower.	W. 128°-350°, obscured-081°, W.-092°, R.-128°. DGPS Station.
19508 F 3537.7	-S. side	22° 17.0' N 114° 04.6' E	Fl.(3)W. period 20s	23 7	3	White concrete structure.	
19512 F 3532.2	Ma Wan Fairway, channel lead light.	22° 21.8' N 114° 04.2' E	Dir.Oc.W.R.G. period 8s lt. 6s, ec. 2s	93 28	W. 8 R. 4 G. 4	White steel lattice tower.	Light shown when vessel constrained by draft is transiting Ma Wan Channel. G. 335°-338°, W.-342°, R.-345°.
19514 F 3532.25	-E.	22° 22.0' N 114° 04.4' E	3 Oc.R. (vert.) period 8s	46 14	2	White framework tower.	Obscured 015°-255°. Traffic signals.
19516 F 3531	Pun Shan Shek.	22° 19.3' N 114° 04.1' E	Fl.R. period 3s	23 7	5	White tower.	
19520 F 3530.6	Tang Lung Chau.	22° 20.4' N 114° 03.8' E	Fl.W. period 5s fl. 1s, ec. 4s	121 37	18	White framework tower; 39.	Visible 224°-099°. Aero Q.R. on summit 1770 meters WSW. Horn: 1 bl. ev. 15s (bl. 2s, si. 13s).
19521 F 3530.8	Kap Shui Mun Bridge, center.	22° 20.6' N 114° 03.3' E	Iso.W. period 4s	174 53	5		On N. and S. sides. Q.R. and Q.G. mark limits of each underpass. Bridge piers W. marked by F.R.
19523 F 3530.9	Tsing Ma Bridge, center.	22° 21.1' N 114° 04.5' E	Iso.W. period 4s	226 69	5		On N. and S. sides. Q.R. and Q.G. mark limits of each underpass. Bridge piers E. and W. marked by F.R.
19524 F 3532.3	Ma Wan, Ngau Lau Tsui.	22° 21.3' N 114° 03.9' E	L.Fl.W.Y.R.G. period 6s fl. 2s, ec. 4s	93 28	W. 5 R. 3 G. 3	White steel lattice tower.	Light shown when vessel constrained by draft is transiting Ma Wan Channel. Y. 091°-158°, R.-213°, G.-258°, R.-286°, W.-321°.
19526 F 3532	-NE. Point.	22° 21.0' N 114° 04.0' E	Fl.(2)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 8s	26 8	5	White concrete column; 26.	
19528 F 3529.5	-NW. point.	22° 21.3' N 114° 03.3' E	3 Oc.R. (vert.) period 8s	46 14 40 12 33 10	2	White steel lattice tower.	Lights shown when vessel constrained by draft transits Ma Wan Channel. Visible 053°-091°.

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CHINA							
19532 <i>F 3530</i>	-W. point.	22° 20.9' N 114° 03.2' E	Fl.W. period 3s	49 15	10	White framework tower; 25.	
19540 <i>F 3521.54</i>	Datum Rock.	22° 16.3' N 114° 03.8' E	Q.R.	23 7	3	White pillar; 21.	
19544 <i>F 3531.3</i>	Peng Chau, Wu Ying Pai.	22° 18.2' N 114° 02.0' E	Fl.(2)W. period 10s	16 5	3	White column.	
19546 <i>F 3531.5</i>	-W.	22° 18.0' N 114° 01.8' E	Q.R.	16 5	1	White column.	Q.R. shown from Tso Yuen Wan westward.
19548 <i>F 3521.66</i>	-Comber Rock	22° 17.0' N 114° 02.0' E	Q.R.	10 3	2	White column.	
19550 <i>F 3521.7</i>	Discovery Bay Marina, S. breakwater.	22° 17.4' N 114° 01.4' E	Fl.G. period 3s	23 7	3	White tubular structure.	
19550.5 <i>F 3521.72</i>	-N. breakwater.	22° 17.5' N 114° 01.4' E	Fl.R. period 3s	23 7	3	White tubular structure.	
19552 <i>F 3521.6</i>	Chau Kung Island.	22° 16.0' N 114° 03.0' E	Fl.R. period 5s	17 5	3	White metal column; 11.	F.W. on jetty 1.31 miles NW.
19554 <i>F 3521.83</i>	Ngan Kwong Wan.	22° 15.7' N 114° 00.3' E	Q.R.	20 6	2	Red and white checkered beacon.	
19554.5 <i>F 3521.8</i>	-Rock at entrance to bay.	22° 16.0' N 114° 01.0' E	Q.W.	25 8	4	White column; 19.	
19555	-Hei Ling Chau Island, Typhoon Shelter, N. entrance.	22° 15.2' N 114° 01.6' E	Fl.R. period 3s	23 7	3		
19556	-Hei Ling Chau Island, Typhoon Shelter, N. breakwater, N. head.	22° 15.1' N 114° 01.6' E	Fl.G. period 3s	23 7	3		
19556.2	--S. head.	22° 14.5' N 114° 01.9' E	Fl.R. period 3s	30 9	3		
19556.4	--S. breakwater, W. head.	22° 14.4' N 114° 01.8' E	Fl.G. period 3s	30 9	3		
19556.6	---E. head.	22° 14.5' N 114° 02.3' E	Fl.R. period 3s	30 9	3		
19556.7 <i>F 3521.922</i>	Hei Ling Chau beacon.	22° 14.5' N 114° 02.4' E	Fl.(2)W. period 10s	20 6	5	Black beacon, red band, double ball topmark.	
19556.8	-Hei Ling Chau Island, Rock SW.	22° 14.6' N 114° 02.2' E	Fl.(2)W. period 5s	16 5	1		
19557	--E. breakwater.	22° 14.6' N 114° 02.3' E	Fl.G. period 3s	30 9	3		
19558 <i>F 3577.46</i>	W. Lamma Island, Shek Kok Tsui, off point.	22° 14.1' N 114° 06.3' E	Fl.(3)W. period 15s	30 9	10	White concrete tower.	
19562 <i>F 3577.5</i>	-Otsi Kok.	22° 14.0' N 114° 06.0' E	Q.W.	11 3	1	White concrete pillar.	
19566 <i>F 3523</i>	S. Traffic Separation Scheme, Cheung Chau Rock.	22° 12.0' N 114° 03.0' E	Fl.(2)W. period 10s	21 6	9	White concrete tower.	
19570 <i>F 3522.3</i>	N. Traffic Separation Scheme, SE. extremity of Lantau Island.	22° 13.6' N 114° 01.1' E	Fl.(4)W. period 15s	16 5	4	White concrete tower.	
19574 <i>F 3522</i>	-Chang Chow Passage, on Adamaster Rock between Lan Tau Shan and Cheung Chau Island.	22° 13.0' N 114° 01.0' E	Fl.W. period 5s fl. 1s, ec. 4s	16 5	7	White concrete tower; 6.	Radar reflector.
19578 <i>F 3523.2</i>	-Cheuns Chau Island, Typhoon Shelter, N. breakwater, N. head.	22° 12.7' N 114° 01.4' E	Fl.G. period 3s	22 7	4	White column; 12.	
19578.2 <i>F 3523.22</i>	--S. head.	22° 12.5' N 114° 01.3' E	Fl.R. period 3s	22 7	4	White column; 12.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
19578.4 <i>F 3523.23</i>	--Middle breakwater, N. head.	22° 12.5' N 114° 01.2' E	Fl.G. period 3s	22 7	4	White column; 12.	
19578.6 <i>F 3523.24</i>	--S. head.	22° 12.4' N 114° 01.3' E	Fl.R. period 3s	22 7	4	White column; 12.	
19578.8 <i>F 3523.25</i>	--S. breakwater, N. head.	22° 12.3' N 114° 01.2' E	Fl.G. period 3s	22 7	4	White column; 12.	
19579 <i>F 3523.26</i>	---S. head.	22° 12.0' N 114° 01.1' E	Fl.R. period 3s	22 7	4	White column; 12.	
19582 <i>F 3523.4</i>	-Shek Ku Chau.	22° 12.0' N 113° 59.0' E	Fl.(3)W. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	46 14	6	White square concrete tower; 13.	Visible 048° 30' -274° .
19586 <i>F 3523.8</i>	-Siu A Chau.	22° 11.0' N 113° 54.0' E	Fl.(2)W. period 6s fl. 0.3s, ec. 2s fl. 0.3s, ec. 3.4s	90 27	7	White pedestal.	
19587 <i>F 3523.5</i>	Zhizhou Liedao. Dazhi Zhou. Yinjiao Zui.	22° 07.7' N 113° 53.4' E	Fl.W. period 6s fl. 1s, ec. 5s	46 14	5	Metal framework tower; 16.	
19588 <i>F 3524</i>	-Lantau Island, SW. extremity.	22° 11.8' N 113° 50.8' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	65 20	14	White square tower.	Visible 261° -154° , obscured elsewhere.
19590 <i>F 3515</i>	Wenwei Zhou.	21° 48.8' N 113° 56.2' E	L.Fl.W. period 6s	141 43	16	White round tower, white lantern, red top; 56.	
	RACON		O(---)				
19591 <i>F 3521.01</i>	Dawanshan Dao.	21° 55.6' N 113° 42.9' E	Fl.W. period 5s fl. 1s, ec. 4s	26 8	5	Metal framework; 13.	
19592 <i>F 3521.005</i>	Xiaowanshan Dao.	21° 56.6' N 113° 40.6' E	Fl.W. period 5s fl. 1s, ec. 4s	33 10	5	Metal framework; 16.	
19593 <i>F 3520.5</i>	Guizhou.	21° 59.2' N 113° 47.5' E	L.Fl.W. period 6s fl. 2s, ec. 4s	102 31	5	Metal framework tower; 13.	
19594 <i>F 3520</i>	Zhu Zhou.	21° 59.8' N 113° 49.5' E	Fl.W. period 4s	590 180	16	White round tower; 16.	
	RACON		N(-•)				
19606 <i>F 3521</i>	Sanya Pai.	22° 04.8' N 113° 48.2' E	Fl.W.R. period 6s	79 24	W. 13 R. 8	White square structure; 20.	W. 165° -320° , R.-165° .
19607 <i>F 3521.13</i>	Datouzhou, S.	22° 05.7' N 113° 42.3' E	Fl.W. period 5s fl. 1s, ec. 4s	72 22	5	Metal framework tower; 13.	
19608 <i>F 3523.53</i>	Xiaozhi Zhou.	22° 06.8' N 113° 52.1' E	Fl.W. period 3s fl. 1s, ec. 2s	217 66	18	White concrete column, red bands; 49.	
19609 <i>F 3521.15</i>	Chitan Dao.	22° 07.3' N 113° 45.7' E	Fl.W. period 3s fl. 1s, ec. 2s	66 20	5	Metal framework tower; 13.	
19610 <i>F 3523.6</i>	Tai A Chau.	22° 09.4' N 113° 54.2' E	Fl.(4)W. period 15s	98 30	9	White concrete tower; 13.	
19611 <i>F 3523.55</i>	Zhenxiang Dao.	22° 07.2' N 113° 50.1' E	Fl.W. period 8s fl. 1s, ec. 7s	69 21	5	Metal framework tower; 16.	
19612 <i>F 3523.58</i>	Guishan Dao.	22° 07.3' N 113° 49.4' E	Fl.W. period 4s fl. 1s, ec. 3s	66 20	5	Metal framework tower; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
19618 <i>F 3521.2</i>	Guishan Dao.	22° 08.1' N 113° 48.8' E	Fl.W. period 5s	187 57	18	White round tower; 49.	
	RACON		B(- • • •)				
19619 <i>F 3521.18</i>	Sichiyao Jiao.	22° 08.6' N 113° 46.6' E	Fl.(2)W. period 5s	66 20	10	ISOLATED DANGER BRB, beacon, topmark; 33.	
19622 <i>F 3521.3</i>	Shilong Jiao.	22° 10.1' N 113° 47.7' E	Fl.W. period 10s	131 40	13	White round tower; 33.	
19626 <i>F 3521.35</i>	Rongshutou Dao.	22° 10.8' N 113° 47.7' E	Fl.W. period 8s fl. 0.5s, ec. 7.5s	181 55	18	White square stone structure; 23.	
19627 <i>F 3521.37</i>	<i>GUI SHAN BEI.</i>	22° 10.9' N 113° 49.8' E	Mo.(A) period 6s			Red hull, name on side.	
	RACON		Q(- - • -)				
19628 <i>F 3521.4</i>	<i>MAYOU SHI LIGHTSHIP.</i>	22° 16.6' N 113° 48.3' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s			Red hull, name painted on sides.	AIS (MMSI No 999413095). Horn: Mo.(U) 30s.
	RACON		K(- • -)				
19640 <i>F 3416</i>	Fortaleza da Guia.	22° 12.0' N 113° 33.0' E	Fl.(2)W. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	354 108	16	White round tower, red lantern; 44.	Signals: Typhoon warnings.
19644 <i>F 3427</i>	Outer entrance range, front.	22° 11.7' N 113° 33.4' E	F.W.	46 14	5	Black metal tower; 23.	Range lights shown by day when hydrofoils are operating and at night as needed.
19644.1 <i>F 3427.01</i>	-Middle, 278 meters 305° from front.	22° 11.8' N 113° 33.3' E	F.W.	170 52	5	Black metal tower; 121.	
19644.2 <i>F 3427.1</i>	-Rear, 609 meters 305° from front.	22° 11.9' N 113° 33.1' E	F.W.	220 67	5	Black metal tower; 36.	
19648 <i>F 3424</i>	Beacon No. 3, SE of breakwater.	22° 10.7' N 113° 35.1' E	Fl.G. period 2s	26 8	3	White beacon, green band.	
19656 <i>F 3426</i>	Beacon No. 2.	22° 10.6' N 113° 35.0' E	Fl.R. period 4s fl. 0.3s, ec. 3.7s	26 8	3	Red and white beacon.	
	RACON		M(- -)				(3 & 10cm)
19658 <i>F 3427.5</i>	S. Breakwater, DS1.	22° 10.7' N 113° 34.8' E	Fl.Y. period 3s	26 8	5	Yellow metal tower on concrete base; 26.	Visible 125° -305° . Breakwater marked by beacons Fl.Y. 3s.
19660 <i>F 3427.2</i>	N. Breakwater, DN1.	22° 10.9' N 113° 34.8' E	Fl.Y. period 5s	26 8	5	Yellow metal tower on concrete base; 26.	Visible 305° -125° . Breakwater marked by beacons Fl.Y. 5s.
19664 <i>F 3428</i>	Beacon No. 5.	22° 10.9' N 113° 34.7' E	Fl.G. period 4s	26 8	3	White concrete structure, green band, on piles; 26.	
19668 <i>F 3429</i>	Beacon No. 4.	22° 11.0' N 113° 34.4' E	Fl.R. period 2s	26 8	3	White concrete structure, red band, on piles; 26.	
19672 <i>F 3430</i>	Beacon No. 7.	22° 11.2' N 113° 34.2' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	26 8	3	White beacon, green band; 26.	
19676 <i>F 3432</i>	Beacon No. 6.	22° 11.4' N 113° 33.8' E	Fl.R. period 2s	26 8	3	White concrete column, red bands; 26.	
19680	N. bridge pillar, PN.	22° 11.4' N 113° 33.8' E	Fl.W. period 2s fl. 0.3s, ec. 1.7s	26 8	5	White square column, black and yellow bands; 13.	
19684	S. bridge pillar, PS.	22° 11.4' N 113° 33.8' E	Fl.W. period 2.5s fl. 0.5s, ec. 2s	26 8	5	White square column, black and yellow bands; 13.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
19687 F 3433	Beacon No. 9.	22° 11.5' N 113° 33.8' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	26 8	3	White concrete column, green bands; 13.	
19690 F 3434	Beacon No. 8.	22° 11.5' N 113° 33.6' E	Fl.R. period 4s fl. 1s, ec. 3s	23 7	3	White beacon, red band; 23.	
19692 F 3450	Enseada da Areia Preta N.	22° 12.6' N 113° 33.2' E	F.R.	23 7	2	Post on dolphin; 10.	Occasional.
19693 F 3435.4	Porto Interior channel, No. 6.	22° 10.8' N 113° 33.8' E	Fl.(2)R. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	30 9	2	White square column, red bands; 16.	
19696 F 3435	-No. 5.	22° 10.8' N 113° 33.8' E	Fl.(2)G. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	30 9	2	White square column, green bands; 16.	
19699 F 3435.6	-No. 8.	22° 10.8' N 113° 33.8' E	Fl.(2)R. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	30 9	2	White square column, red bands; 16.	
19702 F 3435.2	-No. 7.	22° 10.9' N 113° 33.8' E	Fl.(2)G. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	30 9	2	White square column, green bands; 16.	
19705 F 3443	No. 16.	22° 10.6' N 113° 31.8' E	Fl.R. period 5s fl. 1s, ec. 4s	26 8	3	White beacon, red bands.	Radar reflector.
19708 F 3442	Pedra d'a Areca, Beacon No. 14.	22° 10.5' N 113° 32.2' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	26 8	2	White concrete structure.	
19711 F 3446	Pedra do Meio, Beacon 15.	22° 10.0' N 113° 32.0' E	Fl.W. period 5s fl. 1s, ec. 4s	26 8	2	Concrete structure.	
19717 F 3448.5	Coloane Power Station, NE. pier, head, No. 31.	22° 08.4' N 113° 34.7' E	Fl.W. period 4s fl. 0.2s, ec. 3.8s	16 5	5	White metal structure; 19.	Radar reflector.
19720 F 3420	Ponta de Ka-ho, Beacon No. 17.	22° 07.7' N 113° 35.4' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	157 48	12	White column; 19.	
19723 F 3420.5	-Ponta de Hac-Sa.	22° 06.8' N 113° 34.4' E	Fl.(2)W. period 8s	180 55	12	Metal structure on concrete base.	
19724 F 3524.5	Wong Fa Pi.	22° 14.0' N 113° 49.8' E	Fl.(3)W. period 15s	22 7	5		
19726 F 3525.5	Sha Chau.	22° 20.5' N 113° 53.4' E	Fl.(4)W. period 10s	93 28	10	White concrete structure.	
19727 F 3525.6	-	22° 21.0' N 113° 53.4' E	Dir.Oc.W. period 10s	24 7	2		Visible 082° -084°.
19728 F 3527.66	Tuen Mun, Typhoon Shelter, W. entrance, S. side.	22° 22.2' N 113° 58.4' E	Fl.R. period 3s	23 7	3	White column; 12.	
19728.2 F 3527.7	--W. entrance, N. side.	22° 22.3' N 113° 58.4' E	Fl.G. period 3s	23 7	2	White column, 12.	
19728.4 F 3527.72	--E. entrance, S. side.	22° 22.4' N 113° 58.6' E	Fl.R. period 3s	23 7	3	White column; 12.	
19728.6 F 3527.73	---N. side.	22° 22.4' N 113° 58.6' E	Fl.G. period 3s	23 7	2	White metal column; 12.	
19728.8 F 3527.8	-Gold Coast Marina, entrance, N. side.	22° 22.0' N 113° 59.3' E	Fl.R. period 3s	11 3	3	White column.	Aero Q.R. mark summits close N and NNE.
19729 F 3527.82	--S. side.	22° 21.9' N 113° 59.4' E	Fl.G. period 3s	11 3	3	White column.	Fl.R. and Fl.G. mark interior approach to marina.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
19729.2 F 3527.6	Tsing Shan Wan, Sewer outfall.	22° 22.0' N 113° 58.0' E	Q.R.	16 5	3	White concrete tripod.	
19729.4 F 3527.74	Tuen Mun Castle Peak Bay.	22° 21.8' N 113° 59.1' E	Q.R.	11 3	1	White column; 6.	
19732 F 3527.9	Chi Shui-Men, Siu Ho Wan.	22° 18.8' N 113° 59.6' E	Q.W.	7 2	3	Black and yellow beacon, double cone daymark, points up.	Aero Q.R. marks summit close E.
19734 F 3528	-Luk Keng.	22° 20.0' N 114° 01.0' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	50 15	6	White concrete beacon; 15.	Visible 334° -289° 30' .
19736 F 3529	-Ha Pang.	22° 21.4' N 114° 01.7' E	Oc.W.G. period 3s	26 8	W. 11 G. 9	White concrete pillar.	W. 305° -265° , G.-305° . Aero Q.R. marks summit close N.
19738 F 3529.3	--E.	22° 21.3' N 114° 01.8' E	3 Oc.R. (vert.) period 8s	46 14	2	White framework structure.	Obscured 090° -330° . Traffic signals.
19742 F 3526	Lung Kwu Chau.	22° 22.8' N 113° 52.7' E	Fl.W. period 5s	175 53	15	White square concrete tower.	
19746 F 3526.2	Lan Kok Tsui.	22° 24.4' N 113° 54.3' E	Fl.(3)W. period 10s	430 131	15	White tubular structure.	
19750 F 3526.6	Nim Wan, No. 1.	22° 25.3' N 113° 54.8' E	Fl.G. period 3s	30 9	2	Green steel pile.	Channel marked by lighted beacons. Radar reflector.
19752 F 3526.8	-NE.	22° 25.7' N 113° 55.2' E	Q.R.	10 3	2	White column.	
19753	Black Point Power Station.	22° 24.6' N 113° 54.2' E	Q.(9)W. period 15s	13 4	2	W. CARDINAL YBY, beacon, topmark.	
19754 F 3458	Chi-Wan Range, front.	22° 28.8' N 113° 52.8' E	Iso.R. period 4s	128 39	5	White square iron tower.	
19754.1 F 3458.1	--Rear, 460 meters 355° 25' from front.	22° 29.0' N 113° 52.8' E	Oc.R. period 5s	157 48	5	White concrete structure, triangular topmark, point down; 33.	
19762 F 3457.4	Shekou, New Channel Range, front.	22° 28.7' N 113° 54.7' E	Iso.G. period 2s	46 14	2	White structure on concrete platform, red triangular daymark, point up; 43.	
19762.1 F 3457.41	--Rear, 550 meters 036° 43' from front.	22° 28.8' N 113° 54.8' E	Oc.R. period 5s	60 18	3	White structure on concrete platform, red triangular daymark, point down; 58.	
19765 F 3527.1	Nam Sha Po.	22° 30.8' N 113° 59.7' E	Fl.(2)R. period 6s	20 6	10		
19766 F 3527	Hau Hoi Wan, on dolphin.	22° 28.6' N 113° 57.7' E	Q.R.	7 2	2	Dolphin.	
19768 F 3526.9	-Lau Fau.	22° 28.4' N 113° 56.8' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	20 6	5	White metal column.	
19770 F 3458.4	Dongma Zhou.	22° 29.9' N 113° 50.7' E	Fl.W. period 4s	187 57	5	White round brick structure; 7.	
19774 F 3458.5	Dachan Dao.	22° 31.2' N 113° 50.3' E	Fl.(2)R. period 6s	23 7	2	White concrete structure.	
19778 F 3459	Xiya Island.	22° 32.8' N 113° 49.1' E	Fl.(2)W. period 6s	82 25	3	White concrete post; 10.	Visible 272° -245° .
19779 F 3452	Tonggu Jiao.	22° 22.5' N 113° 37.4' E	Fl.(2)W. period 6s	180 55	18	White round stone tower and building; 36.	
19800 F 3526.5	Neilingding Dao.	22° 25.0' N 113° 47.0' E	Fl.(2)W. period 5s	46 14	12	White 3-sided stone structure.	
19804 F 3456	Dawang Jiao.	22° 26.1' N 113° 39.5' E	Fl.(2)W. period 6s	92 28	8	White triangular metal framework structure; 19.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
19810 F 3465	Jiaoyi Sha, S.	22° 41.1' N 113° 43.2' E	Q.(9)W. period 15s	17 5	4 5	W. CARDINAL YBY, beacon, topmark.	
19811 F 3467	-N.	22° 43.6' N 113° 41.6' E	Q.W.	17 5	4 5	N. CARDINAL BY, beacon, topmark.	
19812 F 3466	Shanban Zhou.	22° 43.0' N 113° 39.5' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	105 32	18	White square tower and building; 42.	Bell: 1 str. ev. 30s.
	RACON		C(- • - •)				
19815 F 3468.1	Humen Bridge Opening, W. Shanghengdang.	22° 47.4' N 113° 36.2' E	F.G.		3	Green arrowed daymarks on white square board.	F.R. 3M marks area closed to navigation. Q.Y. 3M mark bridge piers.
	RACON		M(- -)				
19815.1 F 3468.2	-E. Shanghengdang.	22° 47.9' N 113° 36.9' E	F.G.		3	Green arrowed daymarks on white square board.	F.R. 3M marks area closed to navigation. Fl.(2)R. 6s 3M marks SW. side of channel. Fl.(2)G. 6s 3M marks NE. side of channel. Q.Y. 3M mark bridge piers.
	-RACON		B(- • • •)				
19820 F 3473.9	S. Range, front, 580 meters 009° 03' from Nizhou Tou.	22° 54.2' N 113° 34.4' E	F.R.	59 18	5	White concrete pile, black stripe; 52.	Reserve light Iso.W. 2s.
19824 F 3474	-Nizhou Tou, common rear.	22° 54.6' N 113° 34.4' E	F.R.	78 24	5	Gray concrete pile, black stripe; 79.	Reserve lights Oc.W. 5s on S. range, Oc.G. 5s on N. range.
19828 F 3474.1	--N. Range, front, 400 meters 138° 43' from Nizhou Tou.	22° 54.8' N 113° 34.2' E	F.R.	59 18	5	White concrete pile, black stripe; 52.	Reserve light Iso.G. 6s.
19829 F 3474.6	La Sha, Oil Products, breakwater, head, No 1.	22° 55.7' N 113° 33.9' E	L.Fl.R. period 6s	43 13	5	Red metal column; 26.	
19829.1 F 3474.605	-No 2.	22° 55.9' N 113° 33.8' E	Iso.R. period 4s	43 13	5	Red metal column; 26.	
19832 F 3476	Lianshan Range, front.	22° 59.7' N 113° 30.6' E	Iso.R. period 2s	56 17	5	White concrete tower; 46.	
19836 F 3476.1	Rear, 400 meters 326° 04' from front.	22° 59.9' N 113° 30.5' E	Oc.R. period 6s	79 24	5	White concrete tower; 75.	
CANTON RIVER:							
19840 F 3482	-Dahao Zhou Range, front.	23° 04.9' N 113° 28.2' E	Fl.W. period 3s	30 9	5	White round tower; 24.	Tide gauge.
19844 F 3482.1	--Rear, 200 meters 132° 33' from front.	23° 04.8' N 113° 28.4' E	Iso.W. period 2s	33 10	5	White round brick tower; 34.	
19848 F 3483	-Huangpu Gang Range No. 1, front.	23° 05.5' N 113° 27.8' E	Iso.G. period 6s	33 10	5	White round brick tower; 33.	
19852 F 3483.1	--Rear, 180 meters 324° 40' from front.	23° 05.5' N 113° 27.8' E	F.G.	43 13	5	White round brick tower; 48.	
19856 F 3483.2	-Huangpu Gang Range No. 2, front.	23° 05.5' N 113° 27.6' E	Iso.G. period 6s	33 10	5	White round brick tower; 33.	
19860 F 3483.21	--Rear, 160 meters 312° 33' from front.	23° 05.5' N 113° 27.5' E	F.G.	46 14	5	White round brick tower; 48.	
19864	-Liyu Gang.	23° 01.9' N 113° 22.9' E	Fl.W. period 4s	18 5	5		
19868	-Comus Rock.	22° 12.6' N 113° 33.2' E	Fl.G. period 4s				

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
19872	-Fenshuitou.	23° 02.2' N 113° 21.5' E	Fl.W. period 6s	33	4	Red and white beacon, ball topmark.	
19900	<i>Hebao Dao Buoy 1.</i>	21° 49.8' N 113° 13.7' E	Fl.(2)G. period 6s			STARBOARD (A) G, pillar, topmark.	
	RACON		K(- • -)				
19980 <i>F 3407</i>	Xiaojin.	21° 47.9' N 113° 01.4' E	Fl.W. period 6s	269	15	White hexagonal structure; 10.	
19984 <i>F 3406</i>	Weijia Dao.	21° 34.3' N 112° 47.9' E	Fl.W. period 5s	538	18	White round brick tower; 10.	
	RACON		K(- • -)				
19984.5 <i>F 3406.5</i>	Modou Zhou.	21° 36.1' N 112° 44.0' E	Fl.W. period 4s	121	6	White square concrete pile; 7.	
19985 <i>F 3405.8</i>	Bijia Zhou.	21° 35.5' N 112° 34.3' E	Fl.(2)W. period 4s	72	6	White pyramidal framework skeleton; 10.	
19986 <i>F 3405.6</i>	Nanpeng Dao.	21° 32.8' N 112° 10.9' E	Fl.W. period 1.5s	626	20	White tower; 38.	Reserve light Fl.W. 8s 13M.
19988 <i>F 3405.5</i>	Huang-ching.	21° 33.0' N 112° 07.0' E	Fl.W. period 5s	42	8	White round concrete structure; 16.	
19992 <i>F 3405</i>	Hai-ling-shan Tao.	21° 33.4' N 111° 48.5' E	Fl.W. period 5s	145	12	White triangular steel tube framework structure; 26.	Fishing light.
19993 <i>F 3404.6</i>	Qing Zhou.	21° 28.9' N 111° 27.9' E	Fl.(2)W. period 10s	381	7	White metal pole; 13.	
19994	<i>Dazhu Zhou SBM.</i>	21° 20.9' N 111° 24.6' E	Fl.Y. period 3s				Horn.
	RACON		X(- • • -)				
19995 <i>F 3404.9</i>	Changhuan Zui.	21° 31.9' N 111° 40.0' E	Fl.(3)W. period 10s	230	7	White beacon; 43.	
19995.1 <i>F 3404.3</i>	Xi'ao Jiao.	21° 24.6' N 111° 17.2' E	Fl.(2)W. period 5s	29	3	ISOLATED DANGER BRB, beacon, topmark; 23.	
19995.3 <i>F 3404.2</i>	Baidan Shi.	21° 24.5' N 111° 14.9' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	56	3	White round concrete tower; 26.	
19996 <i>F 3404</i>	Dafangji.	21° 23.1' N 111° 11.2' E	Fl.W. period 6s	453	18	Red round concrete tower; 13.	
	RACON		Z(- - • •)				
20000 <i>F 3359</i>	Nao Chou.	20° 54.2' N 110° 36.2' E	Fl.W. period 5s fl. 0.3s, ec. 4.7s	337	26	White round stone tower; 62.	Radiobeacon.
20004 <i>F 3360</i>	-Doulong Cun N. Range, front.	20° 56.2' N 110° 37.8' E	F.W.	82	14	White pyramidal brick tower; 23.	Visible 136° -316° . Siren: (about 200 meters NE).
	-RACON		Z(- - • •)				
20008 <i>F 3360.1</i>	--Rear, 200 meters 270° from front.	20° 56.2' N 110° 37.6' E	Iso.W. period 6s	131	14	Round stone structure, white and black bands; 85.	Visible 250° -290° .
20010 <i>F 3360.4</i>	-Doulong Cun S. Range, front.	20° 56.4' N 110° 37.8' E	Oc.W. period 4s	49	8	White round concrete tower, black stripe; 44.	
20012 <i>F 3360.41</i>	--Rear, 1750 meters 166° 56' from front.	20° 55.4' N 110° 38.0' E	Q.W.	131	8	Truncated hexagonal pyramidal tower, upper part white and black stripes, middle part black and white stripes, lower part white; 57.	Visible 147° -187° .

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
20013 F 3370	Lijian Men.	21° 14.0' N 110° 38.0' E	Fl.(3)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6.5s		8	White structure; 66.	
20014 F 3372.1	Longteng Hangdao Range, front.	21° 03.5' N 110° 33.1' E	Iso.W. period 4s	135 41	15	Structure; 144.	
	RACON		C(- • - •)				
20015 F 3372.11	--Rear, about 2650 meters 276° 50' from front.	21° 03.7' N 110° 31.5' E	Iso.W. period 4s	210 64	15	Structure; 194.	
20016 F 3368	Longshui Ling Range, front.	21° 01.1' N 110° 32.2' E	F.W.	69 21	14	White truncated hexagonal pyramidal stone tower; 36.	
20020 F 3368.1	--Rear, about 1088 meters 303° 46' from front.	21° 01.4' N 110° 31.8' E	Fl.(2)W. period 4s	190 58	10	White truncated hexagonal pyramidal stone tower; 36.	Visible 289° -319°.
LIN-HAI TAO:							
20024 F 3374	-Nansan Dao Range, front.	21° 05.8' N 110° 33.7' E	Iso.W. period 6s	62 19	7	White truncated hexagonal pyramidal stone tower, black bands; 54.	Visible 210° -120°.
20028 F 3374.1	--Rear, 1100 meters 325° 05' from front.	21° 06.4' N 110° 33.4' E	F.W.	102 31	10	White truncated hexagonal pyramidal stone tower, black bands; 44.	Visible 237° -015°.
20029 F 3375	--Donghai Dao.	21° 03.7' N 110° 35.1' E	Fl.(2)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 8s	33 10	10	Red hull.	AIS (MMSI No 999413031).
	RACON		G(- - •)				
20032 F 3378	--SW. extremity of island Range, front.	21° 05.5' N 110° 32.5' E	Iso.W. period 4s	69 21	7	Concrete structure; 77.	Visible 300° -120°.
20036 F 3378.1	--Rear, 800 meters 076° 46' from front.	21° 05.6' N 110° 33.4' E	F.W.R.G.	98 30	W. 7 R. 4 G. 3	Concrete structure; 106.	W. 066° -084°, R.-124°, G.- 310° -066°.
20037 F 3379.9	--Donghai Dao, Bulk Cargo Pier, No 1.	21° 04.0' N 110° 29.1' E	F.R.		5	Red metal column.	
20038 F 3379.92	---No 2.	21° 04.0' N 110° 29.0' E	F.R.	33 10	5	White metal column, red bands; 23.	
20040 F 3380	--Donghai Dao Range, front.	21° 03.4' N 110° 28.6' E	Iso.W. period 4s	85 26	7	White hexagonal truncated pyramidal tower, black band; 23	
20044 F 3380.1	--Rear, 480 meters 142° 12' from front.	21° 03.2' N 110° 28.8' E	F.W.	138 42	7	White hexagonal truncated pyramidal tower, black bands; 46.	
20046 F 3381.18	--Dongcan, Ferry.	21° 05.7' N 110° 23.8' E	Q.W.	39 12	4	Red metal column; 26.	
20048 F 3381	--Dongtoushan Dao Range, front.	21° 06.8' N 110° 24.8' E	Iso.W. period 4s	43 13	8	White concrete structure, black stripe; 30.	Visible 168° -188°.
20052 F 3381.1	--Rear, 250 meters 177° 40' from front.	21° 06.6' N 110° 24.8' E	Fl.W. period 1.5s	75 23	12	White concrete structure, black stripe; 37.	Visible 168° -188°.
20053 F 3381.15	--Ferry.	21° 06.1' N 110° 24.4' E	Q.W.	33 10	4	Red metal column; 26.	
20054 F 3381.19	--New Oil Pier.	21° 08.9' N 110° 24.4' E	Iso.W. period 2s	46 14	5	Green fiberglass column; 33.	
20056 F 3379	--Shitou Jiao Range, front.	21° 09.4' N 110° 23.6' E	F.R.	33 10	7		Visible 191° -065°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
20060 F 3379.1	--Rear, 540 meters 322° 13' from front.	21° 09.7' N 110° 23.4' E	F.R.	62 19	7	White hexagonal truncated pyramidal tower, black bands; 40.	Visible 312° -332° .
20065.1 F 3381.652	--Techeng Dao, No 2.	21° 09.9' N 110° 25.8' E	Fl.(2)R. period 6s	33 10	4	Red round column; 23.	
20068 F 3383	-Zhanjiang Basin Range, front.	21° 11.1' N 110° 24.4' E	F.G.	72 22	2	Gray concrete structure, triangular daymark, point up.	
20072 F 3383.1	--Rear, 150 meters 344° 57' from front.	21° 11.1' N 110° 24.4' E	F.G.	82 25	2	Gray concrete structure, triangular daymark, point down.	Signal station.
20076 F 3382	-Maxie Range, front.	21° 11.8' N 110° 25.7' E	F.R.	56 17	5	White hexagonal truncated pyramidal tower; 12.	
20080 F 3382.1	--Rear, 160 meters 023° 10' from front.	21° 11.9' N 110° 25.7' E	F.R.	72 22	5	White hexagonal truncated pyramidal tower; 18.	
20080.1 F 3382.15	--Ferry.	21° 11.9' N 110° 25.6' E	Q.W.	33 10	4	Red metal column; 26.	
20082	-Moyanlou Range, front.	21° 14.3' N 110° 26.9' E	F.R.	43 13	5	White stone structure, black bands.	
20082.1	--Rear, 461 meters 030° 17' from front.	21° 14.5' N 110° 27.0' E	F.R.	49 15	7	White stone structure, black bands.	
20082.2 F 3382.362	Haiwan Bridge.	21° 15.1' N 110° 25.1' E	Iso.W. period 4s		4	Red circular daymark, white stripes.	Marks best passing point. Fl.(2)R. 6s 4M and Fl.(2)G. 10s 4M mark width of navigable span.
RACON			T(-)				
20083	-Xiahai Range, front.	21° 15.0' N 110° 24.4' E	F.R.	39 12	7	Black and white brick structure.	
20083.1	--Rear, 309 meters 199° 47' from front.	21° 14.8' N 110° 24.4' E	F.R.	69 21	7	Black and white brick structure.	
20083.2 F 3382.425	Diaoshun Pier Basin Range, front.	21° 16.7' N 110° 24.1' E	F.G.	46 14	3	White conical brick pile.	
20083.3 F 3382.426	--Rear, 440 meters 336° 36' from front.	21° 16.9' N 110° 24.0' E	F.G.	62 19	3	White conical brick pile.	
20084 F 3382.421	-Diaoshun Dao Range, front.	21° 16.8' N 110° 23.8' E	Iso.R. period 4s	49 15	6	White quadrangular stone tower, black stripe; 43.	
20084.1 F 3382.422	--Rear, 278 meters 322° 31' from front.	21° 16.9' N 110° 23.7' E	Iso.R. period 4s	79 24	6	White quadrangular stone tower, black stripe; 75.	
20086 F 3316.2	Fangcheng Gang.	21° 33.7' N 108° 23.7' E	Fl.W. period 6s	187 57	20	Red and white round steel tower; 98.	
20087 F 3320.5	-Beihai Xingang Range, front.	21° 28.3' N 109° 04.0' E	F.R.	72 22	3	Iron tower, triangular daymark, point up.	
20087.1 F 3320.51	--Rear, 450 meters 130° from front.	21° 28.2' N 109° 04.1' E	F.R.	92 28	3	Iron tower, triangular daymark, point down.	
20088 F 3321	Neigang Range, front.	21° 28.8' N 109° 05.2' E	F.R.	46 14	3	Black iron framework tower.	
20088.1 F 3321.1	--Rear, 151° 36' from front.	21° 28.7' N 109° 05.2' E	F.R.	69 21	3	Black iron framework tower.	
20092 F 3320	Guantou Ling.	21° 27.2' N 109° 03.1' E	Fl.W. period 3s	394 120	12	White brick tower.	
QINZHOU WAN:							
20093.5	-Damiaodum.	21° 35.5' N 108° 44.5' E	Fl.W. period 3s	118 36	6		Small craft channel on E. side of bay marked by light beacons.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
20093.55	-Tiaoduo Shi.	21° 33.8' N 108° 29.1' E	Fl.(2)W. period 6s	21 6	6		Fishing light.
20093.56	-Shabadun.	21° 34.2' N 108° 29.0' E	Fl.W. period 4s	30 9	6		Fishing light.
20093.6	-Emeiyue Shi.	21° 39.6' N 108° 34.2' E	Fl.(2)W. period 6s	19 6	4		Fishing light.
20093.65	-Xihaijiang Jiao.	21° 40.8' N 108° 35.6' E	Fl.W. period 3s				
20093.66	-Qingcaitou Dao.	21° 41.8' N 108° 36.1' E	Fl.W. period 4s				
20093.7	-Qinzhou Gang.	21° 42.5' N 108° 34.9' E	Fl.R. period 3s				
20093.8 F 3319	-Shatou Shi.	21° 41.5' N 108° 37.2' E	Fl.(2)G. period 6s	13 4	3	Green square concrete tower, triangular daymark, point up.	
20095 F 3316.1	Bailong Wei.	21° 30.1' N 108° 13.1' E	Fl.W. period 4s	295 90	18	White round tower.	
20096 F 3326	Weizhou Dao.	21° 00.7' N 109° 05.9' E	Fl.W. period 10s	301 92	15	White round stone tower; 49.	
	RACON		K(- • -)				
20100 F 3327	-Xieyang Dao.	20° 54.5' N 109° 12.5' E	Fl.W. period 4s	50 15	5	White wooden tripod; 19.	
20102 F 3361	<i>Zhanjiang Gang lightship.</i>	20° 56.0' N 110° 40.4' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	36 11	10	Red hull, name on sides.	
	RACON		M(- -)				
20103 F 3327.4	Shuiwei Cun.	20° 23.7' N 109° 52.0' E	Q.R.	13 4	4	Red metal post; 16.	
20104 F 3328	-Jiaowei Jiao.	20° 13.4' N 109° 55.2' E	Fl.W. period 6s	111 34	18	Concrete tower; 106.	
	-RACON		B(- • • •)				
20105 F 3328.5	Qionghaidian.	20° 15.3' N 109° 56.9' E	Mo.(C)W.R.G. period 12s	43 13	8	White metal pole, red bands, white triangular daymark, point up; 43.	
20106 F 3332	Toudun.	20° 13.9' N 110° 06.7' E	Fl.R. period 5s fl. 1s, ec. 4s	128 39	15	White round concrete structure, black band; 115.	
20107 F 3333	Santang.	20° 14.4' N 110° 10.7' E	Fl.(2)W. period 6s	75 23	5	White brick tower; 66.	
20108 F 3336	-Hongkan.	20° 18.5' N 110° 23.8' E	Fl.W. period 8s	144 44	18	White round stone tower; 49.	
20110 F 3358.5	-Luodou Sha.	20° 21.9' N 110° 34.8' E	Fl.W. period 4s	138 42	20	White round concrete tower; 42.	
	-RACON		K(- • -)				
20112 F 3358	-Shangouhou (Peterson Pt.).	20° 26.0' N 110° 31.0' E	Fl.(2)W. period 6s	65 20	15	White round tower; 19.	
20116 F 3334	-Paiwei Jiao.	20° 14.7' N 110° 16.9' E	Fl.W. period 3s	77 23	12	Round stone structure; 26.	
20120 F 3348.4	-Tonggu Zui.	19° 38.2' N 111° 02.3' E	Fl.(2)W. period 8s	459 140	18	Hexagonal concrete tower; 33.	
	-RACON		K(- • -)				

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
20122 F 3348.35	Beishi Dao.	19° 59.0' N 111° 16.1' E	Iso.W. period 2s	591 180	15	White hexagonal tower, red bands; 21.	
	RACON		X(- • • -)				
20124 F 3348.1	Mulan Tou.	20° 09.6' N 110° 41.0' E	Fl.(2)W. period 15s	289 88	25	White round concrete structure; 237.	Reserve light range 20M.
20128 F 3348.3	Baohu Jiao.	20° 00.1' N 110° 56.0' E	Fl.W. period 6s	177 54	18	White round stone tower; 39.	Radiobeacon about 0.5 mile NW.
	RACON		C(- • - •)				
20130.5 F 3348	Hainan Wan.	20° 06.5' N 110° 38.8' E	Fl.W. period 4s fl. 0.4s, ec. 3.6s	59 18	6	White square column.	
20131 F 3347.95	Baisha Men.	20° 04.3' N 110° 18.9' E	Fl.W. period 6s	256 78	18	White pyramidal concrete tower; 236.	
	RACON		K(- • -)				
20132 F 3346	Xiuying.	20° 01.2' N 110° 16.1' E	Al.Fl.(3+1)W.R. period 42s W. fl. 1.5s, ec. 5.5s W. fl. 1.5s, ec. 5.5s W. fl. 1.5s, ec. 12.5s R. fl. 1.5s, ec. 12.5s	131 40	15	White round metal tower on white building; 79.	
20136 F 3347	-Haikou Wan Range, front.	20° 01.0' N 110° 16.6' E	F.R.	138 42	10	White square iron tower, triangular daymark, point up; 89.	
20140 F 3347.1	--Rear, 430 meters, 163° 08' from front.	20° 00.8' N 110° 16.6' E	F.R.	157 48	10	Black iron framework structure, triangular daymark, point down; 87.	
20144 F 3347.3	-Breakwater, W. head.	20° 01.6' N 110° 16.4' E	Fl.G. period 2s	30 9	2	Square concrete tower; 32.	
20145 F 3343.3	Nangang.	20° 00.2' N 110° 07.8' E	L.Fl.R. period 5s fl. 2s, ec. 3s	128 39	15	White concrete tower, black stripe.	
20146 F 3342.73	Yubao Jiao.	19° 59.5' N 109° 56.5' E	Fl.(3)W. period 15s	243 74	18	White pyramidal concrete tower, red bands; 177.	
	RACON		C(- • - •)				
20147 F 3342.74	Chengmai Wan, W. shore.	19° 59.3' N 109° 56.8' E	Mo.(C)W.R.G. period 12s	112 34	8	Metal column, white triangular daymark, point up; 59.	
HAI NAN TAO:							
20148 F 3342	-Lingao.	20° 00.7' N 109° 42.7' E	Fl.W. period 10s	65 20	15	Iron framework structure, red and white bands; 67.	The lighthouse should be passed at a distance of not less than 2 miles.
	-RACON		K(- • -)				
HAINAN DAO:							
20151 F 3341	-Lingao Wind Tower.	20° 08.9' N 109° 29.3' E	Mo.(C)Y. period 12s	56 17	8	Triangular metal framework tower.	
20152 F 3339	-Bingma Jiao.	19° 53.5' N 109° 15.8' E	Fl.W. period 6s	233 71	22	White hexagonal structure, red stripes; 136.	Reserve light range 15M.
	-RACON		O(- - -)				
20153 F 3338.9	-Shenjian Oil Pier.	19° 47.7' N 109° 08.4' E	Fl.W. period 2s fl. 0.5s, ec. 1.5s	98 30	10	Silver and white metal framework tower.	
	-RACON		C(- • - •)				

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
20156 F 3338.4	-Guanyin Jiao.	19° 34.7' N 109° 00.6' E	Fl.(3)W. period 9s	197 60	18	White square stone tower; 19.	
	-RACON		X(- • • -)				
20157 F 3338.34	-Haitou.	19° 31.3' N 108° 56.6' E	Fl.(2)W. period 6s	30 9	4	White concrete tower.	
20160 F 3338.2	-Junbi Jiao.	19° 21.9' N 108° 41.0' E	Fl.W. period 8s	315 96	20	White hexagonal concrete tower; 27.	Reserve light range 12M.
	-RACON		K(- • -)				
20162 F 3337.89	-Sigeng Sha Lt Ho.	19° 11.7' N 108° 36.3' E	Fl.(2)W. period 6s	102 31	15	White concrete tower; 112.	
20163 F 3337.85	-Dongfang Wind Tower.	19° 11.1' N 108° 32.3' E	Mo.(C)Y. period 12s	52 16	8	Triangular metal framework tower.	
20164 F 3337	-Yulin Jiao.	19° 05.9' N 108° 36.7' E	Fl.(2)W. period 6s fl. 0.3s, ec. 0.9s fl. 0.3s, ec. 4.5s	203 62	18	Blue concrete column; 62.	AIS.
	-RACON		C(- • - •)				
20168 F 3337.6	-Basuo Gang Range, front.	19° 06.4' N 108° 37.9' E	FR.	69 21	6	White square structure, black stripe, triangular daymark, point up; 41.	Fl.R. 3s on same structure. Emergency light.
20172 F 3337.61	--Rear, 260 meters 089° 03' from front.	19° 06.4' N 108° 38.1' E	FR.	85 26	6	White square structure, black stripe, triangular daymark, point down; 66.	
20176 F 3337.1	-N. breakwater, head.	19° 06.5' N 108° 37.3' E	Fl.R. period 3s fl. 1s, ec. 2s	30 9	8	Red round concrete structure; 30.	
20180 F 3337.3	-W. breakwater, head.	19° 06.3' N 108° 37.3' E	Fl.G. period 3s fl. 1s, ec. 2s	31 9	8	Green round concrete structure; 30.	
20184 F 3357.5	-Ganen Jiao.	18° 50.6' N 108° 38.1' E	Fl.W. period 6s	154 47	18	Round tower, red and white bands; 154.	
	-RACON		Y(- • - -)				
20188 F 3357	-Yingge Zui.	18° 30.4' N 108° 41.3' E	Fl.W. period 10s fl. 0.5s, ec. 9.5s	131 40	22	White round concrete structure; 89.	AIS.
	-RACON		O(- - -)				
20192 F 3356	-Xigu Dao.	18° 19.4' N 108° 57.0' E	Fl.W. period 6s	292 89	18	White round tower; 50.	
	-RACON		K(• - •)				
20193 F 9584	-South Hainan Dao Gas Platform.	17° 30.7' N 109° 01.4' E	Mo.(U)R. period 15s FR.		10		Horn.
20194 F 3350	-Ximao Zhou.	18° 13.7' N 109° 22.0' E	Fl.W. period 3s	450 137	18	White concrete pile; 46.	AIS.
20194.5 F 3350.2	-Matou.	18° 14.5' N 109° 22.4' E	Fl.(2)G. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	39 12	10	White metal column, red bands; 36.	
20194.6 F 3350.4	-Yazhou Wan.	18° 18.1' N 109° 08.9' E	Fl.(2)W. period 6s	115 35	15	White concrete column; 112.	
20194.7 F 3352	-Sanya Jiao.	18° 12.6' N 109° 28.2' E	Fl.(3)W. period 9s	52 16	10		
20195 F 3350.5	-Baipai.	18° 14.2' N 109° 28.5' E	Fl.W. period 3s	52 16	10	White round concrete structure; 35.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CHINA							
20195.5 F 3351	-San Ya Range, front.	18° 14.2' N 109° 29.6' E	F.R.	85 26	6	Triangular daymark, point up, on concrete base; 43.	
20195.51 F 3351.1	--Rear, 290 meters 071° 30' from front.	18° 14.2' N 109° 29.9' E	F.R.	108 33	6	Metal structure, triangular daymark, point down; 52.	
20196 F 3349	-Jinmu Jiao.	18° 09.8' N 109° 34.3' E	Fl.W. period 10s	236 72	22	White round concrete tower; 59.	Reserve light range 15M.
	-RACON		O(- - -)				
20198 F 3348.93	-Dongzhou Dao.	18° 11.1' N 109° 41.8' E	Fl.W. period 5s fl. 0.3s, ec. 4.7s	404 123	18	White concrete column; 43.	
20199 F 3348.92	-Houhai.	18° 16.7' N 109° 43.5' E	Iso.R. period 2s	39 12	10	Red metal column; 36.	
20200 F 3348.8	-Linshui Jiao.	18° 23.3' N 110° 03.0' E	Fl.(3)W. period 20s	492 150	18	White octagonal tower; 33.	
	-RACON		K(- • -)				
20203 F 3348.65	-Niuling.	18° 35.3' N 110° 10.7' E	Iso.R. period 2s	33 10	10	Red metal column; 30.	
20204 F 3348.6	-Dazhou Dao.	18° 39.7' N 110° 28.9' E	Fl.W. period 5s	574 175	15	White round tower; 40.	AIS.
	-RACON		X(- • • -)				
20208 F 3348.5	-Bai'an Dao.	18° 48.8' N 110° 34.0' E	Fl.(2)W. period 15s	265 81	18	White square tower, red stripes, white triangular daymark, point down; 39.	
	-RACON		K(- • -)				
20212 F 3348.46	-Boao.	19° 10.0' N 110° 34.9' E	Fl.(3)W. period 9s	92 28	15	White round brick tower; 76.	
20212.5 F 3348.44	-Fengjia Wan.	19° 24.4' N 110° 44.1' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	36 11	10	White metal column; 30.	
20212.6 F 3348.43	-Qinglan Gang Kou.	19° 31.9' N 110° 50.7' E	Fl.(2)W. period 10s fl. 1s, ec. 1s fl. 1s, ec. 7s	85 26	15	White round stone tower; 62.	AIS.
20213 F 3316.3	Sanya Shi.	21° 30.7' N 108° 20.1' E	Fl.(2)W. period 6s	21 6	6	White stone structure.	

Section 12

Vietnam, Gulf of Thailand and South China Sea

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
VIETNAM							
20213.5	Dao Tran.	21° 14.2' N 107° 57.5' E	Fl.(4)W. period 15s	659 201	28	Yellow square tower, dwelling;	59.
20214 F 3306	Le Cancrelat.	20° 49.5' N 107° 18.0' E	F.W.		20	White tower, red top; 16.	
PASSE DE LA PEROUSSE:							
20214.1 F 3307	-Islet.	20° 52.5' N 107° 17.1' E	lt.				
20214.2 F 3309	-Ile Rousee.	20° 56.3' N 107° 18.3' E	lt.				
20214.3 F 3310	-L'Abille.	20° 57.9' N 107° 20.6' E	Fl.W. period 4s				
20214.4 F 3312	-Cap Pha Entrance Range, front.	21° 00.4' N 107° 22.3' E	F.W.	26 8	8	White square tower, black bands;	Visible 024° -045° . 39
20214.5 F 3312.1	--Rear, 816 meters 035° from front.	21° 00.6' N 107° 22.5' E	F.W.	39 12	12	White square tower, black bands;	Visible 024° -045° . 52
20214.6 F 3313	-Range, front.	21° 01.4' N 107° 22.4' E	F.R.	26 8	8	White square tower, black bands;	Visible 008° -028° . 49.
20214.7 F 3313.1	--Rear, 650 meters 018° from front.	21° 01.6' N 107° 22.4' E	F.R.	39 12	14	White square tower, black bands;	Visible 008° -028° . 59.
20214.8 F 3314	-Range, front.	21° 02.0' N 107° 22.1' E	F.G.	42 13	3	White square tower, black bands;	Occasional. 62.
20214.9 F 3314.1	--Rear, 50 meters 357° 30' from front.	21° 02.0' N 107° 22.2' E	F.G.	56 17	3	On wall.	Occasional.
20215 F 3316	Baisu Yan.	21° 23.1' N 108° 12.5' E	Fl.W. period 4s	32 10	6	White rectangular stone structure; 33.	
20216 F 3232	Xuy Nong Chao.	20° 37.3' N 107° 09.8' E	Fl.W. period 4s	361 110	20	Gray round masonry tower and dwelling; 98.	Radiobeacon.
20216.5 F 3315	Dao Vinh Thu'c.	21° 23.8' N 107° 59.8' E	Fl.W. period 6s	279 85	16	White tower; 59.	
20220 F 3293	Rocher du Large.	20° 39.0' N 107° 05.0' E	Fl.W. period 5s		5	White tower.	
CHENAL DE L'HAMELIN:							
20224 F 3296	-Ile de l'Index, E. side.	20° 52.0' N 107° 07.0' E	F.W.	46 14	4	Truncated pyramidal structure.	
20228 F 3297	-Ile de la Clochette, W. side.	20° 53.0' N 107° 08.0' E	F.W.	10 3	4	Truncated pyramidal structure.	
20232 F 3298	-Le Porte Fanal.	20° 55.0' N 107° 07.0' E	F.R.	85 26	3	White pyramid.	
20236 F 3299	-Ile de Repos, S. end.	20° 56.0' N 107° 06.0' E	F.W.	26 8	4	Truncated pyramidal structure.	
20240 F 3292	Lach Huyen.	20° 50.0' N 106° 53.0' E	Iso.W. period 2s	30 9	8	Red iron hut on piles; 46.	Visible 226° -136° .

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
VIETNAM							
CUA NAM TRIEU:							
20244	-Entrance Buoy O.	20° 42.0' N 106° 56.0' E	Fl.W. period 6s			Red buoy.	Pilot station.
20248 F 3268	-Bar Range, front.	20° 46.0' N 106° 51.0' E	Fl.(3)W. period 10s	26 8	10	Black piles, with hut on platform; 53.	
20252 F 3268.1	--Rear, 1.5 miles 303° 30' from front.	20° 46.6' N 106° 49.8' E	Dir.F.W.	69 21		Black pyramidal concrete beacon, platform; 89.	Visible 302° 30' -304° 30' .
20256 F 3272	-Channel Range, front.	20° 50.0' N 106° 49.0' E	Fl.(4)W.R. period 17s	26 8	10	White hut on piles.	W. 313° -098° , R.-133° .
20260 F 3272.1	--Rear, 3241 meters 331° from front.	20° 51.5' N 106° 48.1' E	F.W.	48 15	12	Red framework tower; 89.	Visible 318° -343° .
20264 F 3278	--Coude, bend of channel.	20° 50.0' N 106° 47.0' E	F.W.R.	16 5	W. 9 R. 6	Black hut on white piles; 43.	W. 126° -276° , R.-286° , obscured elsewhere.
			L.Fl.R. period 8s fl. 2s, ec. 6s	23 7	6	Same structure.	
20264.5 F 3280.4	-Song Bach Dang.	20° 52.7' N 106° 45.0' E	Mo.(B)W.R. period 6s	26 8	W. 10 R. 6	Red metal framework tower on white dwelling, on piles.	W. 180° -255° , R.-325° , W.- 118° .
DINH VU CUT:							
20265 F 3279	-E. entrance, N. side.	20° 50.9' N 106° 45.8' E	Iso.W.R. period 3s	36 11		Red column on piles; 65.	W. 240° -150° , R.-240° .
20265.1 F 3279.2	--S. side.	20° 50.8' N 106° 45.8' E	FR.	36 11	10	White triangular topmark on black tripod, white bands; 39.	Visible 092° -312° .
20265.5 F 3280	-W. entrance, N. side.	20° 51.2' N 106° 45.1' E	Iso.G. period 3s	46 14	10	Red metal framework tower on piles; 62.	Visible 277° -137° .
20266 F 3282	Song Cua Cam Range, front.	20° 52.7' N 106° 42.3' E	Oc.(3)W. period 6s	23 7	6	Red hut on piles; 46.	Visible 193° -073° .
20266.1 F 3282.1	-Rear, 335 meters 299° from front.	20° 52.8' N 106° 41.8' E	F.G.	26 8	3	Black tripod, white bands; 29.	
20267 F 3283	Haiphong Harbor.	20° 52.1' N 106° 40.3' E	FR.	26 8	3	Black tripod; 56.	Visible 140° -050° .
20268 F 3236	Hon Dau.	20° 40.0' N 106° 48.7' E	Fl.(2)W. period 10s	203 62	17	Gray octagonal tower; 66.	Visible 140° -050° . <i>Reported Fl.(2)W. 4.6s</i> <i>(1993).</i> Radiobeacon.
20272 F 3234	Cua Ba Lat.	20° 20.0' N 106° 38.0' E	Fl.W. period 4s		12		
20272.5 F 3233	Ba Lat.	20° 15.4' N 106° 35.7' E	Fl.(3+1)W. period 20s	121 37	17	Gray tower on yellow dwelling; 112.	Radiobeacon about 3 miles NNW.
RACON							
			M(- -)		13		
20273 F 3230	Dao Bach Long Vi.	20° 08.0' N 107° 43.4' E	Fl.(2)W. period 10s	262 80	26	Octagonal gray tower on yellow dwelling; 75.	
20274 F 3225	Hon Me.	19° 21.7' N 105° 56.2' E	Fl.(3+1)W. period 12s		18		Visible 180° -000° .
20276 F 3220	Vinh River.	18° 46.0' N 105° 46.0' E	Fl.W. period 2.5s				
20277 F 3216	Cua Viet.	16° 53.8' N 107° 12.2' E	Fl.W. period 4s	92 28	15	Tower on yellow dwelling; 72.	
20278 F 3213	Thai Duong Thuong.	16° 34.3' N 107° 37.2' E	Fl.(3)W. period 10s	112 34	15	White square tower; 59.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH CHINA SEA							
PARACEL ISLANDS:							
20280 <i>F 3197.5</i>	-Woody Island.	16° 50.2' N 112° 19.8' E	Fl.(3)W. period 9s	66 20	13	White round structure; 6.	Occasional.
20284 <i>F 3199.5</i>	-Bombay Reef.	16° 01.6' N 112° 26.5' E	Fl.W. period 4s	79 24	15	White round tower; 72.	
20288 <i>F 3196</i>	-North Reef.	17° 03.8' N 111° 28.0' E	Fl.(2)W. period 6s	75 23	15	White round tower; 72.	
NORTH DANGER REEF:							
20289 <i>F 2825</i>	-Northeast Cay.	11° 27.5' N 114° 21.3' E	Fl.(2)R. period 10s	23 7	5		
20289.2 <i>F 2824.5</i>	-Southwest Cay.	11° 25.9' N 114° 19.9' E	Fl.W. period 15s	118 36	21	Gray round masonry tower.	
20289.6 <i>F 2824</i>	Thitu (Pagasa) Island.	11° 02.5' N 114° 16.9' E	Fl.W. period 5s			Metal structure.	
20289.8 <i>F 2825.17</i>	Yongshu Jiao Reef.	9° 33.3' N 112° 54.1' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	95 29	20	White octagonal concrete tower; 105.	
SPRATLEY ISLANDS:							
20290 <i>F 2825.1</i>	-Ladd Reef.	8° 40.0' N 111° 39.9' E	Fl.W. period 5s	131 40	15	White metal framework tower, red bands on black piles; 138.	
20290.1 <i>F 2825.15</i>	-West Reef.	8° 50.7' N 112° 11.7' E	Fl.(3)W. period 10s	72 22	15	Grey round masonry tower on building; 66.	
20290.2 <i>F 2825.197</i>	Prince of Wales Bank.	8° 09.4' N 110° 35.9' E	Fl.W. period 5s	75 23	12	White framework tower, red band.	
20290.4 <i>F 2825.196</i>	Alexandra Bank.	8° 01.7' N 110° 37.0' E	Fl.(2+1)W. period 10s	75 23	12	White framework tower, red band.	
20290.6	Rifleman Bank.	7° 52.2' N 111° 44.5' E	Fl.(5)W. period 20s	72 22	12	Hut on pilings.	
20290.8 <i>F 2825.18</i>	Amboyna Cay.	7° 53.5' N 112° 55.3' E	Fl.(2)W. period 10s	72 22	15	Grey round masonry tower on building; 82.	
RACON							
A(• -)							
20291 <i>F 9534.9</i>	Prince Consort Bank.	7° 48.8' N 109° 56.9' E	Fl.(2)W. period 8s		12	Platform.	
20291.2 <i>F 2825.194</i>	Grainger Bank.	7° 48.1' N 110° 28.8' E	Fl.(3)W. period 10s	75 23	12	White framework tower, red band.	
VANGUARD BANK:							
20291.4	-Tu-Chin A.	7° 33.0' N 109° 42.0' E	Fl.(2)W. period 13s	72 22	12	Hut on pilings.	
20291.6	-Tu-Chin B.	7° 33.2' N 109° 48.0' E	Fl.(3)W. period 8s	72 22	12	Hut on pilings.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
VIETNAM							
VUNG DA NANG:							
20292 F 3204	Mui Da Nang.	16° 08.3' N 108° 19.6' E	Fl.(2)W. period 10s	518 158	27	White round masonry tower; 29.	Visible 127° -323° .
20296 F 3206	-Da Nang, N. Fort Point.	16° 07.0' N 108° 13.0' E	Fl.W. period 2.5s	135 41	10	White masonry tower; 16.	Visible 300° -210° .
20304 F 3210	-Range front.	16° 07.0' N 108° 13.0' E	Q.G.	13 4	1	White tower.	
20308 F 3210.1	--Rear, 384 meters 352° from front.	16° 07.2' N 108° 13.4' E	Oc.G. period 4s	13 4	1	White tower.	
20312 F 3209	-Beacon No. 1.	16° 06.0' N 108° 13.0' E	Fl.W. period 4s	13 4	2		Fl.G. on S. head.
20316 F 3211	-Breakwater, head.	16° 05.0' N 108° 14.0' E	Fl.R. period 2.5s	16 5	1	White pylon; 10.	
20320 F 3184	Cu Lao Re.	15° 23.1' N 109° 08.8' E	Fl.W. period 4s	171 52	12	Black and white metal tower.	Visible 107° -147° .
20324 F 3176	Vung Moi.	14° 15.0' N 109° 10.0' E	Iso.W. period 7s	167 51	11	White house; 18.	Visible 162° -338° .
QUI NHON HARBOR:							
20332 F 3162	-Presqu'île de Phuoc Moi, S. point.	13° 45.6' N 109° 15.4' E	Fl.G. period 4s	170 52	8	White tower, black bands; 26.	Visible 304° -233° .
20336 F 3163	-AVIATION LIGHT.	13° 46.0' N 109° 13.0' E	Al.Fl.W.G. period 10s				
20364 F 3158	Phuoc Chau (Ganbir).	13° 37.0' N 109° 22.0' E	Fl.(3)W. period 8s	387 118	16	White and black tower; 55.	Obsc. 104° -138° . Reported Fl.(3+1)W. 13s 28M (1986).
20368 F 3154	Cap Varella.	12° 53.5' N 109° 27.9' E	Fl.(3)Y. period 10s	338 103	20	White tower; 56.	Visible 171° -356° . Signal station. Storm signal.
20372 F 3148	Hon Tre (Mui Rachtrang).	12° 11.6' N 109° 20.3' E	Fl.(3)W. period 10s	335 102	26	White round tower, black bands; 47.	Difficult to distinguish during day due to white two-story building in proximity.
20376 F 3150	Mui Chut, S. of Baie de Nha Trang.	12° 13.0' N 109° 13.0' E	F.W.	138 42	9	Turret on white house.	Visible 118° -028° .
VINH CAM RANH:							
20384 F 3134	-Hon Chut, NE. end.	11° 46.9' N 109° 13.5' E	Fl.W. period 4s	192 59	5	Gray masonry tower; 19.	Visible 128° -038° .
20385 F 3140	-Cam Lam, pier.	11° 53.5' N 109° 09.1' E	Fl.W. period 4s	30 9	4	White round concrete tower, black bands.	
20386 F 3139	-Range, common front.	11° 55.4' N 109° 11.4' E	Oc.W.				
20386.1 F 3138.9	--Rear, 300 meters 015° from front.	11° 55.4' N 109° 11.6' E	Q.R.				
20386.2 F 3139.1	--Rear, 200 meters 260° from front.	11° 55.3' N 109° 11.5' E	Q.G.				
20388 F 3138	-Pointe Bai Sau.	11° 54.0' N 109° 12.0' E	Fl.R. period 4s	28 9	4	White conical tower, black bands; 25.	
20392 F 3137	-Ammo Channel No. 1.	11° 55.0' N 109° 11.0' E	Fl.W. period 2.5s	15 5	4		
20396 F 3137.2	--No. 2.	11° 54.8' N 109° 11.4' E	Fl.R. period 4s	15 5	2		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
VIETNAM							
20397 F 3137.4	--No. 3.	11° 55.1' N 109° 11.6' E	Fl.G. period 4s	15 5	3		
20400 F 3137.8	--No. 8.	11° 55.4' N 109° 12.2' E	Fl.R. period 4s	15 5	2		
20404 F 3122	Mui Dinh.	11° 21.5' N 109° 01.1' E	Fl.(2+1)W. period 16s	610 186	17	White square tower; 52.	Obscured when bearing more than 049°.
20406 F 3120	Dao Phu Qui.	10° 32.2' N 108° 56.4' E	Fl.(2)W. period 16s	351 107			
	RACON		O(---)				
20408 F 3118	Phan Thiet.	10° 55.1' N 108° 06.4' E	F.G.	65 20	6	Metal tower; 23.	Visible 055° -235°.
20412 F 3116	Mui Ke Ga.	10° 41.5' N 108° 59.7' E	Fl.(3+1)W. period 10s	213 65	7	Light colored octagonal granite tower; 135.	
20416 F 3066	Mui Vung Tau.	10° 19.9' N 107° 04.9' E	Fl.(2)W. period 10s fl. 0.2s, ec. 2.4s fl. 0.2s, ec. 7.2s	633 193	29	White tower; 59.	Storm signals. Signal station.
	RACON		B(-•••)				
20428 F 3070	-Mui do Cao Trang.	10° 21.3' N 107° 03.9' E	Fl.(3)G. period 12s	66 20	8	Black and white square tower; 56.	Visible 010° -175°.
20432 F 3076	-Pointe Ganh Rai.	10° 23.0' N 107° 03.7' E	Fl.(2)G. period 4s	62 19	6	Pylon, black and white bands; 46.	
20436 F 3078	-Vung Tau Range, front.	10° 24.0' N 107° 05.0' E	Q.G.	17 5		Red dayboard, white reflective stripe.	
20440 F 3078.1	--Rear, about 997 meters 95° 20' from front.	10° 23.5' N 107° 06.0' E	Oc.G.	38 12		Red dayboard, white reflective stripe.	
20444 F 3082	-Can Gio.	10° 23.9' N 107° 01.1' E	Fl.(3)W. period 8s	56 17	6	Octagonal hut on red and white piles.	Intensified 129° -335°.
20446 F 3083	-Song Nga.	10° 27.1' N 106° 56.4' E	Fl.(2)W. period 8s			Metal framework tower.	
20448 F 3084	-Ba Yen (Rach Cai Gau) Range, front.	10° 28.7' N 106° 56.4' E	Fl.(9)R. period 15s	30 9	3	Steel tower, red and white bands; 33.	Synchronized.
20452 F 3084.1	--Rear, 75 meters 335° from front.	10° 28.7' N 106° 56.4' E	Fl.(9)W. period 15s	39 12	5	Steel tower, red and white bands; 39.	Synchronized.
20452.5	-Beacon 15.	10° 32.3' N 106° 51.3' E	Fl.G. period 4s			White beacon, black band.	
20464 F 3110	Mui Den Do No. 24.	10° 44.0' N 106° 45.0' E	Q.(2)W. period 4s fl. 0.2s, ec. 0.6s fl. 0.2s, ec. 3s	30 9	4	White metal pylon, red lantern.	
SONG CAU TIEU:							
20472 F 3060	-Banc Norodom.	10° 14.8' N 106° 47.7' E	Dir.Fl.W. period 2.5s			Round tower on piles.	Intensified at 290°.
CON SON (POULO CONDORE):							
20476 F 3046	-Hon Bay Canh.	8° 39.9' N 106° 42.6' E	Fl.(2)W. period 10s	696 212	27	White round tower on house, red roof; 52.	Visible 150° -070°, but partially obscured by Hon Cau 230° - 240°.
20480 F 3048	-Vinh Con Son, front.	8° 41.0' N 106° 36.0' E	F.R.	49 15	5	White pyramidal tower; 23.	A F.G. light is shown from head of landing jetty.
20484 F 3048.1	--Rear, 875 meters 339° from front.	8° 41.0' N 106° 36.1' E	F.W.	81 25	10	White pyramidal tower; 30.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
VIETNAM							
20486 <i>F 3049.5</i>	-Den Da Trang.	8° 39.5' N 106° 35.3' E	Fl.W. period 5s	56 17	12	White round tower, red bands, concrete base; 33.	
20488 <i>F 3049</i>	-Con Dao, at White Mark.	8° 39.0' N 106° 36.0' E	Fl.W. period 2.5s	13 4	6	White rock.	
20492 <i>F 3042</i>	Hon Khoai.	8° 25.7' N 104° 50.2' E	Fl.W. period 5s	984 300	30	Square granite tower, dwelling; 52.	Obscured 041° -055°. Obscured arc increases on approach within 9 miles. <i>Reported Fl.(2)W. 9s (1989).</i>
20493 <i>F 3040</i>	Hon Chuoi.	8° 56.8' N 104° 31.9' E	Fl.(2)W. period 7s	525 160	12	House; 33.	
20494 <i>F 3039</i>	Hon Nam Du.	9° 40.6' N 104° 21.3' E	Fl.(3)W. period 10s	1047 319	12	House; 33.	
20494.5 <i>F 3039.5</i>	Den Tho Chu.	9° 17.6' N 103° 28.5' E	Fl.(4)W. period 15s	459 140	12	Grey tower, yellow top on building; 59.	
RACON			N(- •)				
20496 <i>F 3021</i>	Poulo Wai.	9° 55.0' N 102° 56.0' E	Iso.W. period 4s	269 82			
20500 <i>F 3036</i>	-Entrance to Rach Giadi Long Xuyen.	10° 00.7' N 105° 04.7' E	Fl.(2)W. period 8s	56 17	10	White metal tower; 52.	Visible 088° -358°.
20504 <i>F 3032</i>	Ha Tien Range, front.	10° 22.7' N 104° 28.7' E	Fl.(9)W. period 13.8s	29 9	10	White metal tower; 20.	
20508 <i>F 3032.1</i>	-Rear, about 750 meters 044° from front.	10° 23.0' N 104° 29.5' E	Fl.(5)W. period 10s	46 14	10	White metal tower; 39.	
20512 <i>F 3030</i>	Mui Nai.	10° 22.0' N 104° 26.0' E	Fl.W. period 4s fl. 0.4s, ec. 3.6s	203 62	6	Square stone tower; 26.	Visible 330° -107° , except where obscured by islands.
20516 <i>F 3022</i>	Rach Duong Dong.	10° 13.0' N 103° 57.6' E	Fl.(3)W. period 9s	49 15	10	White tower; 16.	
20518 <i>F 3025</i>	-An Thoi.	10° 00.8' N 104° 00.9' E	Mo.(A)W. period 6s	230 70	10	White tower; 16.	
20520 <i>F 3028</i>	-Ham-Ninh.	10° 11.0' N 104° 03.0' E	Fl.W. period 4s fl. 0.4s, ec. 3.6s	26 8	4	Red and white steel tower; 23.	
CAMBODIA-THAILAND							
BAIE DE RIEM:							
20524 <i>F 3019</i>	-Range, front.	10° 30.1' N 103° 36.6' E	F.W.	36 11	3	White metal framework pylon; 30.	Visible 334° -002°.
20528 <i>F 3019.1</i>	--Rear, 290 meters 348° from front.	10° 30.2' N 103° 36.6' E	F.W.	42 13	7	White metal framework pylon; 39.	Visible 334° -002°.
20532 <i>F 3014</i>	Kaoh Rung Samloen.	10° 33.0' N 103° 19.0' E	Fl.(2)W. period 10s fl. 0.3s, ec. 3.2s fl. 0.3s, ec. 6.2s	395 120	24	White tower, red band; 59.	Visible 210° -136°.
20536 <i>F 3015</i>	Kaoh Kaong Kang (Paletuiviers).	10° 36.0' N 103° 26.0' E	Oc.(2)W. period 9s lt. 4.5s, ec. 1.5s lt. 1.5s, ec. 1.5s	46 14	12	Metal pylon; 29.	
20540 <i>F 3016</i>	-Kaoh Dek Koul.	10° 38.0' N 103° 27.0' E	Fl.G. period 6s fl. 1.5s, ec. 4.5s	79 24	8	Iron framework tower; 28.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CAMBODIA-THAILAND							
20544 F 3017	-Kampong Saom (Sihanoukville), harbor basin, S. mole.	10° 39.0' N 103° 30.0' E	F.G.				
20548 F 3012	Kaoh Kon.	11° 26.0' N 103° 00.0' E	F.W.		62 19	9 Red metal pylon; 29.	Occasional.
20552 F 3010	Ko Kut.	11° 34.1' N 102° 35.2' E	Fl.W. period 10s fl. 1.5s, ec. 8.5s		679 207	10 White metal framework tower; 52.	
20556 F 3008	Khiong Yai.	11° 46.7' N 102° 53.2' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s		190 58	20 White metal framework tower; 105.	
20560 F 3004	Laem Nam.	12° 02.6' N 102° 35.1' E	Fl.(2)W. period 15s fl. 1s, ec. 2s fl. 1s, ec. 11s		62 19	8 White concrete tripod; 52.	
20564 F 3006	Laem Ko Pu.	12° 09.9' N 102° 34.4' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s		46 14	8 White concrete tripod; 39.	
20568 F 3002	Laem Ngop.	12° 10.2' N 102° 23.5' E	Oc.W. period 3s lt. 2s, ec. 1s		52 16	13 White concrete tower, red bands; 46.	
20570 F 3001	Ko Chang, Trat.	12° 05.7' N 102° 16.8' E	Fl.(3)W. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s		299 91	10 White round concrete tower, red band; 56.	
20572 F 3000	Hin Khi Chang, Chang Ko Channel.	12° 09.8' N 102° 18.3' E	Fl.(3)W. period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s		46 14	10 White metal framework tower; 36.	
20576 F 2998	Ko Chik Nok.	12° 17.8' N 102° 14.1' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s		59 18	10 White concrete tripod; 26.	
20580 F 2996	Laem Sing.	12° 28.2' N 102° 03.5' E	Fl.(3)W. period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 10.5s		272 83	10 White metal framework tower; 20.	
20584 F 2992	Mae Nam Prasae.	12° 41.8' N 101° 42.1' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s		59 18	21 White metal framework tower; 52.	
20592 F 2994	Ko Man Nok.	12° 34.1' N 101° 42.0' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s		154 47	10 White metal framework tower; 72.	
20596 F 2990	Ko Samet.	12° 34.7' N 101° 26.9' E	Fl.W.R.G. period 5s fl. 0.5s, ec. 4.5s		328 100	W. 10 R. 6 G. 5 White metal framework tower; 49.	W. 008° -078° , G.-083° 30' , W.-086° 30' , R.-090° , W.-099° , R.-102° 30' , W.-292° , obsc.-008° .
20597 F 2987.6	TPI Range, front.	12° 38.9' N 101° 18.4' E	Q.G.		98 30	12 Green and yellow beacon, triangular daymark, point upward.	
20597.1 F 2987.61	-Rear, 1370 meters 023° from front.	12° 39.6' N 101° 18.7' E	Iso.G. period 6s		164 50	12 Green and yellow beacon, triangular daymark, point down.	
20598	Map Ta Phut Approach Buoy B.	12° 29.8' N 101° 12.2' E	Fl.(4)Y. period 20s			SPECIAL Y, pillar, topmark.	
	RACON		B(- • • •)				
20599 F 2987.5	-SPM.	12° 29.1' N 101° 11.9' E	Fl.(6)W. period 15s			5 Orange mooring.	Horn: Mo.(U) ev. 30s.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CAMBODIA-THAILAND							
20600 <i>F 2988</i>	Rayong.	12° 39.4' N 101° 16.6' E	Fl.(3)W. period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 10.5s	49 15		White concrete tower; 52.	F.R. and F.G. lights mark river entrance.
20601 <i>F 2986.1</i>	Map Ta Phut Range, front, No 18.	12° 40.5' N 101° 08.6' E	Iso.G. period 6s	89 27	7		
20601.1 <i>F 2986.11</i>	-Rear, No 19, 1600 meters 345° 30' from front.	12° 41.4' N 101° 08.4' E	Q.G.	174 53	8		
20602 <i>F 2986.5</i>	-W. breakwater, head.	12° 38.6' N 101° 09.1' E	Fl.W. period 4s	6 2	8	Red and white checkered structure.	
20603.5 <i>F 2985</i>	AVIATION LIGHT.	12° 43.3' N 101° 02.0' E	F.R.	899 274	10		
20604 <i>F 2984</i>	AVIATION LIGHT.	12° 41.0' N 101° 00.0' E	Al.W.G.				
THAILAND-EAST COAST							
20608 <i>F 2976</i>	Hin Chula, off Laem Samae San.	12° 35.7' N 100° 57.9' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	33 10	8	White concrete tower, black bands; 26.	
20612 <i>F 2982</i>	Ko Chuang.	12° 31.0' N 100° 57.3' E	Fl.(2)W. period 20s fl. 0.5s, ec. 4s fl. 0.5s, ec. 15s	476 145	29	White brick tower; 72.	
			F.R.	425 130	8	Same tower.	Shows over Hin Chalan.
20616 <i>F 2973.5</i>	Ko Chorake.	12° 36.2' N 100° 55.0' E	Fl.(2)W. period 10s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	190 58	15	White round metal pipe; 16.	
20620 <i>F 2975.4</i>	Ko Mu, breakwater, head.	12° 37.0' N 100° 54.6' E	Fl.(2)W. period 5s	46 14	10	White concrete square column; 23.	
20624 <i>F 2975.3</i>	-Oil pier.	12° 37.1' N 100° 54.8' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	26 8	10	White metal pipe, red band; 7.	
20628 <i>F 2975</i>	-Range, front.	12° 37.4' N 100° 54.8' E	Q.Y.	69 21	8	White metal framework tower, red rectangular daymark, white stripe; 56.	Aero Radiobeacon 2.5 miles E.
20632 <i>F 2975.1</i>	--Rear, about 488 meters 017° 36' from front.	12° 37.6' N 100° 54.9' E	Iso.Y. period 4s	95 29	8	White metal framework tower, red rectangular daymark, white stripe; 85.	
20634 <i>F 2974</i>	-Ko Tao Mo, breakwater, head.	12° 38.7' N 100° 51.5' E	Fl.(2)W. period 6s fl. 0.3s, ec. 1s fl. 0.3s, ec. 4.4s	36 11	10	White round concrete pole; 20.	
20640 <i>F 2973</i>	Laem Pu Chau.	12° 39.0' N 100° 51.2' E	Fl.(3)W. period 15s fl. 0.3s, ec. 1.4s fl. 0.3s, ec. 1.4s fl. 0.3s, ec. 11.4s	561 171	30	White concrete tower; 49.	
20644 <i>F 2970</i>	Hin Khi Sua.	12° 40.9' N 100° 49.6' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	30 9	6	White concrete tower; 23.	
20648 <i>F 2968</i>	Hin Rang Kwian.	12° 47.7' N 100° 47.8' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	59 18	9	White concrete pile structure; 23.	
20649	Chon Buri.	12° 55.3' N 100° 52.0' E	Fl.W. period 5s	315 96	14	Radio tower.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
THAILAND-EAST COAST							
20652 <i>F 2964</i>	Ko Chun.	12° 56.8' N 100° 51.5' E	Fl.(3)W.R. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	43 13	W. 10 R. 8	White concrete beacon; 16.	R. 334° -024° , W.-044° , R.- 094° , W.-334° .
20656 <i>F 2966</i>	Ko Phai.	12° 55.9' N 100° 40.2' E	Fl.W. period 5s fl. 1s, ec. 4s	525 160	31	White concrete tower; 52.	
20660 <i>F 2962</i>	Ko Nok.	13° 01.5' N 100° 49.3' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	49 15	10	White framework tower; 36.	
20661 <i>F 2963</i>	Laem Chabang.	13° 04.7' N 100° 52.4' E	Fl.W. period 10s fl. 1s, ec. 9s	259 79	10	Structure; 29.	
	RACON		C(- • - •)		30		
20661.1 <i>F 2963.2</i>	-Harbor Entrance, Beacon A.	13° 03.3' N 100° 53.3' E	Dir.F.W.R.G.	102 31	21	Metal framework tower.	G. 128° 15' -130° 45' , W.- 132° 15' , R.-134° 45' .
20662 <i>F 2963.4</i>	-Breakwater, NW. head, Br 1.	13° 03.9' N 100° 52.4' E	Q.(3)W. period 10s	30 9	5	E. CARDINAL BYB, beacon, topmark.	3 Q.W. lights mark breakwater center. Radar reflector.
20662.1 <i>F 2963.5</i>	--SE. head, Br 2.	13° 02.3' N 100° 53.1' E	Q.(3)W. period 10s	33 10	5	E. CARDINAL BYB, beacon, topmark.	Radar reflector.
20662.25 <i>F 2963.86</i>	-Basin No. 1, Beacon C Range, front.	13° 04.3' N 100° 54.0' E	Q.G.	56 17	10	Concrete structure, black and white striped daymark.	
20662.26 <i>F 2963.88</i>	--Beacon D, rear, 700 meters 059° 18' from front.	13° 04.5' N 100° 54.3' E	Iso.G. period 6s	82 25	10	Concrete structure, red and white striped daymark.	
20662.3 <i>F 2963.7</i>	--SW. corner, B1.	13° 03.6' N 100° 53.1' E	Iso.G. period 6s	43 13	10	Green metal framework tower.	
20662.4 <i>F 2963.9</i>	-Basin No. 2, Beacon E Range, front.	13° 03.3' N 100° 54.5' E	Fl.G. period 5s	95 29	7	Metal framework tower.	
20662.41 <i>F 2963.91</i>	--Beacon F, rear, about 380 meters 073° from front.	13° 03.4' N 100° 54.7' E	Iso.G. period 4s	112 34	7	Metal framework tower.	
20662.5 <i>F 2963.73</i>	--NW. corner, B2.	13° 03.1' N 100° 53.3' E	Iso.R. period 6s	33 10	8	Metal framework tower.	
20662.51 <i>F 2963.75</i>	--SW. corner, B3.	13° 02.8' N 100° 53.4' E	Iso.G. period 6s	33 10	8	Metal framework tower.	
20664 <i>F 2960</i>	Ko Thai Ta Mun.	13° 06.5' N 100° 48.2' E	Fl.(2)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 8s	95 29	9	White concrete piles; 20.	
20666 <i>F 2959</i>	Si Racha Oil Terminal, Jetty No. 1, N. head.	13° 07.4' N 100° 52.9' E	Fl.R. period 2s	30 9	6		
20666.5 <i>F 2959.4</i>	-Jetty No. 2, N. head.	13° 07.4' N 100° 52.8' E	Q.(2)R. period 3s	30 9	6		
20666.7 <i>F 2958.8</i>	-SBM-1.	13° 07.8' N 100° 51.6' E	Mo.(U)W.	20 6	5	Yellow superbuoy.	Radar reflector.
			Q.R.				
20666.71 <i>F 2959.8</i>	-SBM-2.	13° 04.3' N 100° 46.7' E	Mo.(O)W. period 15s		5	Yellow superbuoy.	Horn: Mo(O) ev. 30s. Radar reflector.
	-RACON		Z(- • - •)				
20668 <i>F 2958</i>	Laem Wat (Wang).	13° 09.0' N 100° 49.2' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	46 14	7	White brick column; 30.	
20670	Ko Si Chang.	13° 09.7' N 100° 48.7' E	Oc.W. period 6s lt. 3.3s, ec. 2.7s	128 39	17	White round concrete tower, red top; 128.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
THAILAND-EAST COAST							
20672 <i>F 2954</i>	Hin Sampayu.	13° 11.3' N 100° 47.9' E	Fl.(3)W. period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 10.5s	46 14	10	White brick tower; 30.	
MAE NAM CHAO PHRAYA:							
20700 <i>F 2939</i>	-Bangkok Bar.	13° 22.7' N 100° 35.7' E	L.Fl.W. period 10s fl. 2s, ec. 8s	115 35	20	White concrete structure, red bands; 118. Helicopter platform.	Siren: 1 bl. ev. 20s.
	-RACON		O(---)		12		(3 & 10cm)
20701 <i>F 2943.5</i>	-Beacon J Range, front.	13° 27.1' N 100° 35.7' E	Q.R.	52 16	5	White framework tower, red rectangular daymark, white stripe.	
			Q.R.	49 15	8		Visible 205° -215° .
20702 <i>F 2943.51</i>	--Rear, 1.95 kilometers 210° from front.	13° 26.2' N 100° 35.2' E	Iso.R. period 6s	112 34	9	White framework tower, black rectangular daymark, white stripe.	
			Iso.R. period 6s	108 33	9		Visible 205° -215° .
20704 <i>F 2941</i>	-Beacon A Range, front.	13° 27.8' N 100° 36.9' E	Q.W.	49 15	5	White metal framework tower, red and white striped daymark.	Visible all around.
			Q.W.	46 14	8		Visible 029° -039° .
20708 <i>F 2941.1</i>	--Beacon B, rear, 1,750 meters 034° from front.	13° 28.6' N 100° 37.2' E	Iso.W. period 6s	79 24	4	White metal framework tower, black and white striped daymark.	Visible all around.
			Iso.W. period 6s	75 23	9		Visible 029° -039° .
20712 <i>F 2943</i>	-Beacon E Range, front.	13° 30.6' N 100° 38.1' E	Q.R.	46 14	8	White metal framework tower, yellow and black striped daymark.	Visible 025° -035° .
			Q.Y.	49 15	9	White metal framework tower, red and white striped daymark.	Visible 121° -131° .
20716 <i>F 2943.1</i>	--Beacon F, rear.	13° 31.4' N 100° 38.6' E	Iso.R. period 6s	79 24	9	White metal framework tower, white and red striped daymark.	Visible 025° -035° .
20720 <i>F 2944</i>	--Beacon I, rear.	13° 30.0' N 100° 39.0' E	Iso.Y. period 6s	79 24	9	White metal framework tower, black and white striped daymark.	Visible 121° -131° .
20724 <i>F 2942</i>	-Beacon C Range, front.	13° 29.5' N 100° 36.9' E	Q.G.	49 15	4	Grey metal framework tower, red and white striped daymark.	
			Q.G.	46 14	8		Visible 013° -023° .
20728 <i>F 2942.1</i>	--Beacon D, rear, 1725 meters 018° from front.	13° 30.0' N 100° 37.0' E	Iso.G. period 6s	79 24	4	White metal framework tower, black and white striped daymark.	Visible all around.
			Iso.G. period 6s	75 23	8		Visible 013° -023° .
20732 <i>F 2945</i>	-Beacon G Range, front.	13° 33.3' N 100° 34.4' E	Q.Y.	85 26	4	White metal framework tower, red and white striped daymark.	Visible all around.
			Q.Y.	82 25	8		Visible 301° -311° .

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
THAILAND-EAST COAST							
20736 F 2945.1	--Beacon H, rear, 0.5 mile 306° from front.	13° 33.6' N 100° 34.0' E	Iso.Y. period 6s	115 35	4	Concrete water tower, black daymark, white vertical stripe.	Visible all around.
			Iso.Y. period 6s	111 34	9		Visible 301° -311°.
20740 F 2948	-No. 25.	13° 37.4' N 100° 32.7' E	Q.(9)W. period 15s	20 6	2	W. CARDINAL YBY, beacon, topmark.	
20744 F 2948.2	-No. 19.	13° 37.6' N 100° 32.6' E	Fl.(4)Y. period 7s	20 6	2	SPECIAL Y, beacon, topmark.	
20748 F 2948.4	-No. 13.	13° 37.7' N 100° 32.5' E	Fl.(3)Y. period 5s	20 6	2	SPECIAL Y, beacon, topmark.	
20752 F 2948.6	-No. 7.	13° 37.9' N 100° 32.4' E	Fl.(2)Y. period 3s	20 6	2	SPECIAL Y, beacon, topmark.	
20756 F 2948.8	-No. 1.	13° 38.1' N 100° 32.3' E	Q.(9)W. period 15s	20 6	2	W. CARDINAL YBY, beacon, topmark.	
20757	-L1.	14° 41.5' N 100° 35.3' E	L.Fl.Y. period 10s fl. 3s, ec. 7s	49 15	10	Yellow metal framework tower, black band.	
20757.3	-L2.	14° 42.1' N 100° 34.8' E	L.Fl.Y. period 10s fl. 3s, ec. 7s	49 15	10	Yellow metal framework tower, black band.	
20760 F 2937	Tha Chin.	13° 30.7' N 100° 16.3' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	56 17	12	White metal framework tower; 49.	
20764 F 2935	Mae Nam Mae Khlong.	13° 20.9' N 100° 00.0' E	Fl.(3)W. period 12s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 6.5s	108 33	16	White framework tower; 98.	
20765 F 2936	-Entrance channel beacon.	13° 18.5' N 100° 01.0' E	Fl.(2)G. period 4s	30 9	11		
20766 F 2936.5	--N.	13° 18.8' N 100° 01.2' E	Fl.W. period 4s	39 12	15		
20767 F 2934.5	Ao Ban Laem.	13° 12.1' N 100° 02.3' E	Fl.W.R. period 9s fl. 0.9s, ec. 8.1s	39 12	W. 9 R. 5	White concrete tower; 36.	W. 123° -329° , R.-123° .
20768 F 2934	Laem Phak Bia.	13° 03.0' N 100° 05.9' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	75 23	10	White concrete tripod; 66.	
20772 F 2933	Hua Hin.	12° 34.2' N 99° 58.1' E	V.Q.(6)+L.Fl.R. period 10s	23 7	9	White concrete column, black bands; 16.	
20776 F 2932.7	Khao Takiap.	12° 30.9' N 99° 58.9' E	Fl.(2)W. period 12s fl. 0.5s, ec. 1s fl. 0.5s, ec. 10s	427 130	15	White metal tripod; 20.	
20780 F 2932.4	Ko Sattakut.	12° 12.4' N 100° 01.8' E	Fl.(3)W. period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 10.5s	525 160	16	White concrete tripod; 36.	
20784 F 2932	Ko Raet.	11° 47.6' N 99° 49.4' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	423 129	17	White concrete tower; 13.	
20788 F 2930	Laem Mae Ramphung.	11° 11.6' N 99° 34.6' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	269 82	10	White metal framework tower; 72.	
20792 F 2928	Ko Rang.	10° 49.3' N 99° 29.5' E	Fl.W. period 9s fl. 0.9s, ec. 8.1s	302 92	16	White metal framework tower; 23.	

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THAILAND-EAST COAST							
20796 F 2924	Ko Mattaphon.	10° 26.9' N 99° 15.2' E	L.FI.W.R. period 7s fl. 2s, ec. 5s	180 55	W. 16 R. 8	White metal framework tower; 39.	R. 208°-216°, W.-263°, R.- 298°, W.-309°, R.-339°, W.-208°.
20797 F 2924.2	-Beacon A.	10° 26.8' N 99° 14.8' E	FI.G. period 3s	26 8	5		
20797.1 F 2924.3	--B.	10° 26.7' N 99° 14.8' E	FI.W. period 4s	46 14	7		
20800 F 2922	Ko Rang Banthat.	10° 07.0' N 99° 12.9' E	FI.(3)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6.5s	102 31	10	White concrete tower; 20.	
20804 F 2923	Mae Nam Tako.	10° 05.5' N 99° 09.0' E	FI.W. period 3s fl. 0.3s, ec. 2.7s	30 9	10	White concrete column; 20.	
20808 F 2920	Lang Suan.	9° 56.6' N 99° 09.5' E	Oc.(2)W.R. period 5s	66 20	W. 15 R. 12	White concrete tower; 56.	R. 223°-308° over rocks, W.- 223°.
20812 F 2915.3	Ko Tao.	10° 07.3' N 99° 50.6' E	FI.W. period 5s fl. 1s, ec. 4s	243 74	16	White concrete tower; 36.	
20816 F 2915.2	Ko Phangan, Laem Thian.	9° 40.1' N 100° 04.3' E	FI.(2)W. period 12s fl. 0.5s, ec. 1s fl. 0.5s, ec. 10s	410 125	16	White metal framework tower; 72.	
20820 F 2915	Laem Yai, on Ko Samui.	9° 34.2' N 99° 54.8' E	FI.W. period 5s fl. 0.5s, ec. 4.5s	207 63	9	White metal framework tower; 56.	
20824 F 2914.8	Ban Ang Thong.	9° 32.0' N 99° 56.2' E	FI.(2)W.R. period 7s	47 14	W. 15 R. 12		R. shore-084°, W.-130°, R.- shore.
20828 F 2915.4	Ko Palikan.	9° 21.2' N 99° 40.9' E	FI.W. period 3s fl. 0.3s, ec. 2.7s	118 36	8	White metal framework tower; 56.	
20830	Erawan Gas Field RACON.	9° 08.3' N 101° 15.7' E	O(---)		15	Platform.	Azimuth coverage 010°-235° (3 & 10cm).
20830.4	Beanpot Gas Field RACON.	8° 50.8' N 101° 25.2' E	B(-•••)		15	Platform.	(3 & 10cm).
20832 F 2914	Ko Wang Nai.	9° 18.7' N 99° 53.5' E	FI.(3)W. period 9s fl. 0.3s, ec. 1s fl. 0.3s, ec. 1s fl. 0.3s, ec. 6.1s	226 69	16	White metal framework tower; 30.	
20836 F 2916	Ko Prap, Bandon River.	9° 15.9' N 99° 25.9' E	FI.W. period 6s fl. 1.5s, ec. 4.5s	243 74	21	White metal framework tower; 46.	
20840 F 2916.3	-Beacon A.	9° 16.7' N 99° 26.3' E	FI.(2)R. period 6s	29 9	11		
20840.1 F 2916.5	-Beacon B.	9° 16.0' N 99° 26.2' E	Oc.(2)W. period 7s	75 23	15		
20844 F 2917	-Beacon C.	9° 12.2' N 99° 23.2' E	FI.(2)G. period 6s	26 8	11		
20844.1 F 2917.3	-Beacon D.	9° 11.3' N 99° 22.9' E	Oc.(2)W. period 6s	75 23	15		
20848 F 2918	Laem Sui.	9° 23.4' N 99° 18.8' E	FI.(3)W. period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	112 34	9	White metal framework tower; 102.	
20852 F 2912	Sichon.	9° 00.9' N 99° 55.1' E	FI.W.R. period 3s fl. 0.3s, ec. 2.7s	75 23	W. 7 R. 3	White metal framework tower; 36.	W. shore-254°, R.-294°, W.- shore.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
THAILAND-EAST COAST							
20856 <i>F 2910</i>	Nakhon.	8° 33.9' N 100° 00.2' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	112 34	11	White metal framework tower; 105.	Aero Radiobeacon 3.4 miles SSW.
20860 <i>F 2908</i>	Laem Talumphuk.	8° 30.8' N 100° 08.8' E	Fl.(2)W. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	102 31	13	White metal framework tower; 95.	
20868 <i>F 2909</i>	Ko Kra.	8° 23.9' N 100° 44.0' E	Fl.(3)W. period 20s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 15.2s	518 158	17	White concrete tripod; 52.	
20870	Bangkok Gas Field, Platform W11 RACON.	8° 01.6' N 102° 28.5' E	S (• • •)				Lighted.
20872 <i>F 2907</i>	Amphoe Ranot.	7° 46.8' N 100° 22.0' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	115 35	9	White metal framework tower; 102.	
20876 <i>F 2895</i>	Ko Losin.	7° 20.1' N 101° 59.5' E	Fl.(2)W. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	42 13	10	Iron framework structure, truncated concrete base, black and red bands; 23.	
20876.2	Mae Nam Ko.	6° 14.5' N 102° 05.6' E	Fl.Y. period 5s	16 5	6	White mast; 16.	
20877 <i>F 2895.5</i>	Kelantan.	6° 14.5' N 102° 05.6' E	Fl.W. period 5s	33 10	10	White round concrete tower, diamond daymark.	
	RACON		A(• -)				
20878 <i>F 2895.4</i>	Sungai Kolok.	6° 14.2' N 102° 05.5' E	Oc.W.R.G. period 5s lt. 3s, ec. 2s	82 25	W. 15 R. 11 G. 11	White tower on concrete base; 86.	G. shore-197° 12' , W.- 200° 12' , R.-shore.
20880 <i>F 2904</i>	Songkhla Khao Tangkuan.	7° 12.6' N 100° 35.4' E	Fl.(4)W. period 30s fl. 0.2s, ec. 4.8s fl. 0.2s, ec. 4.8s fl. 0.2s, ec. 4.8s fl. 0.2s, ec. 14.8s	335 102	25	White brick tower; 26.	
20884 <i>F 2905</i>	-Range, front, A.	7° 13.5' N 100° 34.3' E	Fl.G. period 3s	36 11	11	White metal pillar, concrete base, diamond daymark.	
20888 <i>F 2905.1</i>	--Rear B, 250 meters 224° 18' from front.	7° 13.4' N 100° 34.2' E	Iso.G. period 5s	62 19	11	White metal pillar, concrete base, diamond daymark.	
20892 <i>F 2906</i>	-S. breakwater, head.	7° 14.0' N 100° 35.0' E	Fl.R. period 3s	20 6	4	White metal pillar, concrete base.	
20894 <i>F 2906.4</i>	-N. breakwater, head.	7° 14.1' N 100° 34.7' E	Fl.G. period 3s	26 8	4	White metal pillar, concrete base.	F.R. 3M marks each end of oil pier close WSW.
20896 <i>F 2900</i>	Laem Ta Chi.	6° 57.0' N 101° 17.0' E	Fl.(3)W. period 8s	102 31	10	White metal framework tower; 95.	
20912 <i>F 2898</i>	Khlong Sai Buri.	6° 42.6' N 101° 38.3' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	92 28	10	White iron framework structure; 85.	

MALAYSIA-EAST COAST

SUNGEI KELANTAN:

20920 <i>F 2894</i>	-Sungei Tapang.	6° 12.6' N 102° 08.3' E	Fl.W. period 10s		6		Fishing light.
20922	-Dalam Rhu.	6° 12.2' N 102° 09.9' E	Fl.R. period 4s	36 11	5	Wooden framework structure, white daymark.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MALAYSIA-EAST COAST							
20926 F 2893	-Pantai Sri Tujoh.	6° 13.2' N 102° 09.3' E	Fl.W. period 7s	36 11	12	White wooden framework tower.	
20930	Pulau Kuda.	6° 12.9' N 102° 13.9' E	Fl.(2)W. period 5s		8	White wooden tower, white square daymark.	
20932 F 2890	Sungai Kelantan Approach.	6° 10.7' N 102° 19.7' E	Fl.W. period 4s	60 18	10	Latticework tower, rectangular daymark; 50.	Visible 148° -299° . Temporarily removed (1986).
20934 F 2889	Pengkalan Daty, S. breadwater, head.	6° 10.1' N 102° 20.8' E	Fl.W. period 5s		10	White tower; 45.	
20935 F 2888.5	Kemasin.	6° 07.9' N 102° 22.5' E	Fl.G. period 6s	34 10	5	White tower.	
20936 F 2888	Menchat.	6° 04.0' N 102° 24.0' E	Fl.W. period 5s	40 12	10	Tower, white rectangular daymark.	
20937 F 2887.1	Tok Bali, N. breakwater.	5° 53.9' N 102° 29.1' E	Q.G.	46 14	10	White column, green triangular topmark, point up.	
20937.5 F 2887	-S. breakwater.	5° 53.9' N 102° 29.2' E	Q.R.	46 14	10	White column, red square topmark.	
20940 F 2885.7	Pulau Perhentian Besar.	5° 53.3' N 102° 44.7' E	Fl.W. period 7s	145 44	10	Pedestal on rock.	
20942 F 2885.6	Seabelle rock.	5° 54.6' N 102° 42.6' E	Fl.W. period 4s	30 9	8	White column on piles.	
20944 F 2886	Sungei Semerak.	5° 52.0' N 102° 31.0' E	Fl.W. period 5s	45 14	10	White wooden tower; 46.	
20948 F 2885.5	Sungai Besut.	5° 49.8' N 102° 33.8' E	Fl.W. period 2s	39 12	8	White metal tripod; 36.	Fishing.
20952 F 2885.2	Kuala Setiu Bharu.	5° 39.8' N 102° 44.5' E	Fl.R. period 5s	26 8	5	White framework tower, red square daymark; 26.	Fishing.
20955 F 2885.17	Pulau Cipu.	5° 40.6' N 102° 49.5' E	Fl.W. period 5s	102 31	10		
20956 F 2885.1	Pulau Penang.	5° 44.4' N 103° 00.3' E	Fl.W. period 10s	433 132	10	Metal framework tower; 26.	
20957 F 2885.05	Pulau Leng.	5° 44.2' N 103° 01.2' E	Fl.(2)W. period 6s	43 13	5		
20958 F 2885.15	Batu Bara.	5° 38.7' N 102° 58.2' E	Fl.W. period 4s	253 77	11		
20959 F 2885.03	Batuan Rusa Utara.	5° 34.3' N 102° 59.1' E	Fl.(2)W. period 5s	43 13	10		
20960 F 2885	Tanjong Merang.	5° 32.0' N 102° 57.0' E	Fl.W. period 4s	68 21	8	White mast, white rectangular daymark; 19.	Obscured when leaving more than 278.
20964 F 2884	Batu Rakit.	5° 27.3' N 103° 03.3' E	Fl.(2)W. period 5s	26 8	8	White concrete pile.	
20965 F 9532	Lawit-A Platform RACON.	6° 33.0' N 103° 21.0' E	X(- • • -)				Lighted.
20966 F 9531	Jerneh-A Platform RACON.	6° 34.5' N 103° 44.6' E	Y(- • - -)				Lighted.
KUALA TERENGGANU:							
20968 F 2880	-Bukit Peteri.	5° 20.2' N 103° 08.3' E	Fl.W. period 3s fl. 1s, ec. 2s	114 35	15	White brick pillar on fort.	
20970	-Kuala Terengganu No. 4.	5° 20.1' N 103° 08.0' E	Fl.(2)R. period 4s	26 8	5	White concrete pile.	
20974 F 2881	-Syahbandar beacon.	5° 20.5' N 103° 08.0' E	Fl.G. period 2s			White wooden framework tower, white square daymark; 19.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MALAYSIA-EAST COAST							
20975 F 2881.5	-Pulau Duyang.	5° 20.4' N 103° 07.9' E	Fl.G. period 3s	29 9	5	White wooden framework.	
20980	-Fairway Lighted Buoy.	5° 20.0' N 103° 09.0' E	L.Fl.W. period 10s			SAFE WATER RW, spherical.	
20992 F 2878	Chendering, head.	5° 16.0' N 103° 11.1' E	Fl.W. period 5s	249 76	10	White metal framework tower.	
20996 F 2878.5	-Breakwater, head.	5° 16.0' N 103° 11.0' E	Q.G.	26 8	5	White metal framework tower.	
20998 F 2877	Marang, breakwater.	5° 12.6' N 103° 12.9' E	Fl.R. period 3s	39 12	5	Red concrete tower.	
21000 F 2876	Pulau Kapas, S. end.	5° 13.0' N 103° 16.0' E	Fl.W. period 10s fl. 1.2s, ec. 8.8s	96 29	13	Steel structure.	Visible 300° -154°.
21002 F 2869.8	Pulau Tokong Batu Kemudi.	4° 52.0' N 103° 39.5' E	Fl.W. period 6s	52 16	10		
21003 F 2869.7	Batuan Tokong Dayak.	4° 46.9' N 103° 41.3' E	Fl.W. period 3s	75 23	10		
21004 F 2870	Tanjung Dungun.	4° 47.0' N 103° 26.0' E	Fl.W. period 10s fl. 0.7s, ec. 9.3s	226 69	20	Steel framework structure.	
21005 F 2873	Kuala Dungun.	4° 46.7' N 103° 25.6' E	Fl.R. period 4s	26 8	5	White post.	
21006 F 2869.5	Tanjung Pelor.	4° 39.3' N 103° 26.9' E	Fl.W. period 5s	70 21	8	White pillar on concrete base.	
21008 F 2869.4	Paka.	4° 38.7' N 103° 26.7' E	Fl.G. period 10s	27 8	5	White mast; 30.	
21010	Kertih Terminal, breakwater, N. head.	4° 35.9' N 103° 27.8' E	Fl.R. period 5s		11		
21011 F 2869.27	--S. head.	4° 35.1' N 103° 28.1' E	Q.G.		11		
21012 F 2869.3	-Sarus tower.	4° 36.0' N 103° 27.6' E	Q.Y.	30 9	10	SPECIAL Y, articulated beacon.	Marks cooling water intake.
21016 F 2869.15	Kertch Port Marine Control tower.	4° 34.0' N 103° 28.0' E	Iso.W.R. period 2s	115 35	W. 12 R. 9	Metal framework tower.	W. 180° -225°, R. -305°, W.- 329°. Mo.(U)W. 15s 2M Horn on SBM 1.2 miles ENE. Mo.(U)W. 7.5s 2M Horn on SPM 2.4 miles E and 2.8 miles ESE.
21020 F 2869	Tanjong Labohan.	4° 31.2' N 103° 28.2' E	Fl.(2)W. period 4s	250 76	15	White metal framework tower; 20.	
21022 F 2869.07	Kuala Kertih.	4° 30.8' N 103° 27.3' E	Fl.(2)W. period 5s	36 11	5	Beacon.	
21028 F 2867	Kijal Coast.	4° 20.0' N 103° 29.0' E	Fl.W. period 5s		10	White tower; 30.	
21032 F 2862	Sungai Kemaman.	4° 14.3' N 103° 27.3' E	Fl.W. period 12s	343 105	15	White and red masonry structure.	
21034 F 2859	-Entrance Range, front.	4° 15.0' N 103° 27.7' E	Q.R.	69 21	12	Framework tower, white triangular daymark, point up, red stripe.	
21034.1 F 2859.1	--Rear, 457 meters 310° from front.	4° 15.6' N 103° 27.6' E	Iso.R. period 4s	108 33	12	Framework tower, white triangular daymark, point down, red stripe.	
21034.15	-E.	4° 12.7' N 103° 32.0' E	Q.G.	39 12	8	STARBOARD (A) G, beacon.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MALAYSIA-EAST COAST							
21034.16	-N.	4° 13.1' N 103° 31.1' E	Fl.(2)G. period 10s	39 12	5	STARBOARD (A) G, beacon.	
21034.17	-S.	4° 12.9' N 103° 29.8' E	Q.R.	39 12	5	PORT (A) R, beacon.	
21034.2	-No. 1.	4° 13.8' N 103° 29.3' E	Fl.G. period 5s	33 10	2	Beacon on dolphin.	
21034.3 F 2860.2	-No. 3.	4° 13.5' N 103° 29.1' E	Fl.R. period 5s	36 11	8	Beacon on dolphin.	Front range beacon entrance of channel, lights in line 291° with rear light Sungai Kemaman, LL 21032.
21035	-No. 4.	4° 14.3' N 103° 28.3' E	Fl.R. period 3s	49 15	5	Red and white beacon.	
21036 F 2860.7	-Range, front.	4° 15.4' N 103° 27.8' E	Q.G.	69 21	12	Framework tower, white triangular daymark, point up, red stripe.	
21040 F 2860.71	--Rear, 210 meters 327° 30' from front.	4° 15.2' N 103° 27.3' E	Iso.G. period 4s	89 27	12	Framework tower, white triangular daymark, point down, red stripe.	R. light on tower 800 meters E.
21040.2 F 2860.76	-S. breakwater, head.	4° 14.8' N 103° 28.3' E	Fl.(2)R. period 5s	29 9	2		
21040.4 F 2860.8	-No. 5.	4° 15.0' N 103° 28.3' E	Fl.(2)G. period 5s	29 9	2	Beacon on dolphin.	
21040.6 F 2860.9	-E. breakeater, head.	4° 14.9' N 103° 28.5' E	Fl.Y. period 5s	33 10	3		L.P.G. jetty marked by F.R. lights.
SUNGAI KEMAMAN:							
21042 F 2865	-Range, front.	4° 14.6' N 103° 27.0' E	Q.G.	19 6	5	White pillar, white triangular daymark, point up.	
21042.1 F 2865.1	--Rear, 340° from front.	4° 14.7' N 103° 27.0' E	Fl.G. period 2s	33 10	5	White pillar on piles, white triangular daymark, point down.	
KUANTAN PORT:							
21052 F 2857	-Tanjung Gelang.	3° 57.8' N 103° 26.2' E	Fl.(3)W. period 10s	279 85	25	White masonry tower; 23.	
21056 F 2858	-Range, front.	3° 58.6' N 103° 25.9' E	Q.G.	43 13	13	Red square daymark, steel framework tower, 33.	Visible 296° 06' -326° 06' .
21060 F 2858.1	--Rear, 960 meters 311° 04' from front.	3° 58.9' N 103° 25.5' E	Oc.G. period 5s	112 34	15	Red square daymark, steel framework tower, 98.	Visible 296° 06' -326° 06' .
21062.4 F 2857.5	-No.2.	3° 57.0' N 103° 27.5' E	Fl.R. period 5s	56 17	8	PORT (A) R, beacon, topmark.	
21062.5 F 2857.6	-No.3.	3° 57.5' N 103° 27.3' E	Fl.(2)G. period 10s	46 14	10	STARBOARD (A) G, beacon, topmark.	
21064 F 2858.3	-N. breakwater, head.	3° 58.2' N 103° 26.5' E	Fl.(4)G. period 12s	30 9	9	Green beacon; 20.	5 F.Bu. mark breakwater.
21068 F 2858.2	-S. breakwater, head.	3° 58.1' N 103° 26.3' E	Fl.(4)R. period 12s	30 9	9	Red beacon; 20.	
21068.4 F 2858.35	-Inner breakwater, head.	3° 58.2' N 103° 26.2' E	Fl.R. period 2s		5		
21068.6 F 2858.5	-Naval Basin, N. mole.	3° 58.2' N 103° 26.0' E	Fl.G.				Fl.R. 300 meters SE.
21069.6 F 2858.6	-Palm oil berth.	3° 58.3' N 103° 25.8' E	F.W.				F.Bu. marks mineral oil berth 700 meters NW.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MALAYSIA-EAST COAST							
SUNGAI KUANTAN:							
21072 F 2854	-Sungai Balok.	3° 56.0' N 103° 23.0' E	Q.W.	25 8	4		Fishing light.
21076 F 2847	-Tg. Tembeling.	3° 48.0' N 103° 23.0' E	Fl.(2)W. period 10s fl. 0.2s, ec. 3.2s fl. 0.2s, ec. 6.5s	227 69	15	White lattice tower; 20.	Visible 197° -025° .
21080 F 2848	-Bukit Pelinding Range, front.	3° 48.6' N 103° 20.5' E	Fl.G. period 2s			10 White wooden mast, red diamond daymark, black stripe; 23.	
21084 F 2848.1	--Rear, 46 meters 323° 30' from front.	3° 48.6' N 103° 20.3' E	Q.G.			10 White metal framework tower, red diamond daymark, black stripe; 39.	
21087 F 2846.9	-Teluk Sisek.	3° 47.8' N 103° 21.2' E	Fl.(2)G. period 5s			10	
21088 F 2845	Kuala Pahang.	3° 32.1' N 103° 27.8' E	Fl.W. period 7s	39 12		10 White metal pole, white square daymark.	
ANAMBAS ISLANDS (INDO):							
21096 F 1832	-Mangkai Pulau.	3° 05.2' N 105° 35.9' E	Fl.(3)W. period 15s	643 196		25 White iron framework tower; 131.	Visible 338° -239° .
21096.5 F 1830	-Letong.	2° 59.5' N 105° 42.5' E	Fl.W. period 6s fl. 1s, ec. 5s	197 60	11		
21096.7 F 1831.5	-Tulai.	2° 59.5' N 105° 41.0' E	Fl.W. period 6s	82 25	15		
21096.8 F 1830.55	Tanjung Lelan.	2° 49.0' N 105° 43.8' E	Fl.(2)W. period 10s fl. 0.3s, ec. 3s fl. 0.3s, ec. 6.4s	131 40	18		
21097 F 1828	Pulau Damar.	2° 44.5' N 105° 22.8' E	Fl.W. period 3s	288 88	22		
21097.5 F 1831	Tokong Malangbiru.	2° 18.2' N 105° 35.8' E	Fl.W. period 4s	52 16	12	White beacon.	
21097.6 F 1830.8	Repong Island.	2° 21.7' N 105° 52.8' E	Fl.(4)W. period 12s fl. 0.3s, ec. 1.7s fl. 0.3s, ec. 1.7s fl. 0.3s, ec. 1.7s fl. 0.3s, ec. 5.7s	72 22	14		
21097.65 F 1830.7	Pulau Ritan.	2° 38.0' N 106° 18.1' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	56 17	12	White beacon.	
21097.7 F 1830.6	Serak Island.	2° 47.3' N 106° 00.8' E	Fl.(4)W. period 20s fl. 0.3s, ec. 3s fl. 0.3s, ec. 3s fl. 0.3s, ec. 3s fl. 0.3s, ec. 9.8s	72 22	14		
21097.8 F 1834	Nunsa Island.	2° 59.6' N 106° 24.8' E	Fl.(4)W. period 30s fl. 0.4s, ec. 4.6s fl. 0.4s, ec. 4.6s fl. 0.4s, ec. 4.6s fl. 0.4s, ec. 14.6s	82 25	15		
21098 F 1838.3	-NW. side.	3° 00.8' N 107° 45.4' E	Fl.(3)W. period 15s	41 12	11	White beacon.	
21100 F 1838	Midai Island.	2° 59.4' N 107° 46.7' E	Fl.W. period 20s	519 158	26	White metal framework structure; 98.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MALAYSIA-EAST COAST							
21100.1 <i>F 1838.35</i>	Karang Jackson.	2° 58.8' N 107° 48.7' E	Fl.W. period 5s fl. 1s, ec. 4s	49 15	12	White beacon.	
21101 <i>F 1836.8</i>	Seluan.	4° 07.0' N 107° 50.7' E	Fl.(4)W. period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	125 38	17		
21102 <i>F 1837</i>	Sedanau.	3° 47.8' N 108° 02.1' E	Fl.W. period 3s	41 12	11	White beacon.	
21104 <i>F 1837.6</i>	Karang Sedanau.	3° 44.5' N 108° 01.1' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	49 15	10	White iron framework structure; 49.	
21104.5 <i>F 1837.65</i>	Karang Burung.	3° 41.6' N 108° 02.4' E	Fl.W. period 3s	43 13	11	White beacon.	
21104.7 <i>F 1837.75</i>	Selat Lampa.	3° 40.0' N 108° 08.0' E	Fl.G. period 9s	102 31	15	Green metal framework tower; 98.	
21105 <i>F 1837.7</i>	-Karang Lampa.	3° 39.2' N 108° 06.3' E	Fl.G. period 3s	19 6	5	STARBOARD (A) G, beacon.	
21106 <i>F 1837.8</i>	Karang Setahi.	3° 37.5' N 108° 08.5' E	Fl.W. period 4s	43 13	11	White beacon.	
21108 <i>F 1836.7</i>	Tanjong Senoebing.	3° 57.7' N 108° 24.2' E	Fl.W. period 10s	348 106	24	Framework tower; 66.	
21112 <i>F 1836.5</i>	Sekatoeng.	4° 47.7' N 108° 01.2' E	Oc.W. period 3s lt. 2s, ec. 1s	321 98	26	White metal framework tower; 98.	
21114 <i>F 1836.6</i>	Semium.	4° 31.0' N 107° 43.9' E	Fl.W. period 5s	525 160	22	White lighthouse.	
SIANTAN:							
21117 <i>F 1835</i>	-Tanjung Pedas.	3° 13.9' N 106° 11.8' E	Fl.W. period 4s	269 82	15	White tower; 131.	
21120	--Terampa.	3° 13.0' N 106° 13.0' E	F.R.				
21121 <i>F 1836.1</i>	---NE.	3° 13.7' N 106° 14.3' E	Oc.G. period 5.5s lt. 3s, ec. 2.5s	20 6	7	STARBOARD (A) G, beacon, topmark.	
21122 <i>F 2842</i>	Pulau Berhala.	3° 14.7' N 103° 39.5' E	Fl.(2)W. period 5s	98 30	10	Wooden frame tower.	
21124 <i>F 2840</i>	Kampang Telaga Papan (Menasik).	3° 08.0' N 103° 27.0' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	43 13	5	White wooden framework tower, ball topmark.	
21128 <i>F 2839.5</i>	Kuala Pandan.	3° 05.0' N 103° 26.0' E	Fl.W. period 8s	32 10	6	White metal framework tower; 26.	Fishing light.
21129	Kuala Rompin, jetty.	2° 48.6' N 103° 28.8' E	Fl.R. period 4s	26 8	9	White concrete pile.	
21130	Batu Boya.	2° 45.4' N 103° 36.7' E	Fl.W. period 5s	26 8	8	White concrete pile.	
PULAU TIOMAN:							
21134	-Tanjung Penuba.	2° 51.3' N 104° 09.0' E	Fl.(2)W. period 5s	59 18	8	Concrete structure, white square daymark.	
21136	-Tanjung Lanting.	2° 43.3' N 104° 13.0' E	Fl.(3)W. period 15s	67 20	10	Concrete structure, white square daymark.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MALAYSIA-EAST COAST							
21138 <i>F 2836.7</i>	Palau Tokong Bahara.	2° 40.0' N 104° 03.8' E	L.F.I.W. period 15s	46 14	8	White column on concrete base.	
21140 <i>F 2837</i>	Padang Endau, inner.	2° 40.0' N 103° 38.9' E	Fl.R. period 3s	38 12	4	White column on pile, red square daymark.	
21144 <i>F 2837.2</i>	-Outer beacon.	2° 40.2' N 103° 39.7' E	Q.W.	36 11	10	White column on piles, white square daymark, black stripe.	
21148 <i>F 2836.3</i>	Pulau Achi.	2° 39.3' N 103° 52.8' E	Fl.(2)W. period 10s	187 57	6	White square lattice tower.	
21150 <i>F 2836.1</i>	Pulau Harimau.	2° 33.6' N 103° 56.5' E	Fl.W. period 5s	318 97	16	White square lattice tower, red bands.	
21152 <i>F 2834</i>	Mersing (Br.).	2° 26.0' N 103° 51.0' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	35 11	5	Iron framework tower.	Difficult to distinguish from lights of town.
21156 <i>F 2833</i>	-Outer Channel Beacon.	2° 26.7' N 103° 51.1' E	Fl.R. period 4s	37 11	5	White concrete pillar, red square topmark.	Fishing light.
21160 <i>F 2833.4</i>	-Inner Channel Beacon.	2° 26.5' N 103° 50.8' E	Fl.G. period 5s	37 11	5	White concrete pillar, green triangular topmark.	Fishing light.
21164 <i>F 2836</i>	Pulau Stindan.	2° 28.0' N 103° 51.0' E	Fl.W. period 11s fl. 1s, ec. 10s	30 9	10	Column.	
21165 <i>F 2835.5</i>	Batu Sakit Mata.	2° 27.5' N 104° 01.1' E	Fl.W. period 3s	43 13	18	White concrete tower.	
21166 <i>F 2835.3</i>	Batu Tikus.	2° 25.9' N 104° 03.0' E	Fl.(2)W. period 20s	39 12	12	White concrete tower.	
21167 <i>F 2835</i>	Pulau Lang.	2° 27.5' N 104° 29.3' E	Fl.W. period 5s	180 55	18	Steel framework tower.	
21167.5 <i>F 2832.5</i>	Batu Murau.	2° 18.3' N 104° 01.8' E	Fl.W. period 5s	49 15	7	White column on platform.	
21168	Tg. Tenggaroh.	2° 15.0' N 103° 58.8' E	Fl.W. period 10s		10		
21172 <i>F 2826</i>	Jason Bay, Sungai Sedili Besar.	1° 55.0' N 104° 08.0' E	Q.R.	18 5	1		
21173 <i>F 2827</i>	Kuala Sedili, Inner beacon.	1° 55.2' N 104° 07.4' E	Fl.(2)R. period 5s	37 11	5	White column on piles.	

Section 13

Singapore Strait and Strait of Malacca

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MALAYSIA-SINGAPORE-INDONESIA (SINGAPORE STRAIT)							
21176 F 1812	Tanjong Berakit.	1° 13.2' N 104° 34.7' E	Fl.(2)W. period 10s fl. 1.5s, ec. 2s fl. 1.5s, ec. 5s	223 68	20	White iron framework structure; 98.	Visible 085° -341° .
21180 F 1822	Pulau Mungging.	1° 21.7' N 104° 17.9' E	Fl.W. period 3s	79 24	15	White metal framework structure; 26.	Radar reflector.
	RACON		N(- •)				
21184 F 1737	Tanjong Setapa (Langkah Baik).	1° 20.6' N 104° 08.1' E	Fl.(3)W. period 20s fl. 0.1s, ec. 3.2s fl. 0.1s, ec. 3.2s fl. 0.1s, ec. 13.3s	140 43	18	Orange iron framework tower; 107.	
21185 F 1737.2	Malang Berendam.	1° 21.5' N 104° 05.3' E	Fl.(2)W. period 6s	62 19	7	White column on platform.	
21186 F 1821	Tompok Utara.	1° 27.8' N 104° 27.0' E	Fl.(3)W. period 15s	82 25	15	White round fiberglass tower on pile.	AIS (MMSI No 005330110).
21188 F 1820	Pulau Batu Puteh (Horsburgh).	1° 19.8' N 104° 24.3' E	Fl.W. period 10s fl. 0.7s, ec. 9.3s	102 31	20	White round tower, black bands; 112.	Radar reflector.
	RACON		O(- - -)		16		(3 & 10 cm)
21189 F 1738	Karang Si Ajar.	1° 25.5' N 104° 05.0' E	Fl.W. period 3s	26 8	18	White concrete tower.	
21200 F 1736	-Changi, AVIATION LIGHT.	1° 21.6' N 103° 59.4' E	Fl.W. period 1.5s	285 87	10	Control tower.	Al.W.G. 3s 1,330 meters 322°, identification beacon Mo.(CH)G. 7s 2, 650 meters 024° . Obstruction light.
21200.3 F 1735	Changi Naval Base.	1° 19.1' N 104° 02.1' E	Fl.(3)W. period 15s	43 13	15	White round tower on piles.	Obscured 084° -154° .
21200.4 F 1735.6	-S. breakwater.	1° 18.5' N 104° 01.8' E	Dir.F.W.R.G.	39 12	W. 7 R. 6 G. 6	White beacon, white triangular daymark, point down.	G080° -087° 30' ,W.-092° 30' , R.-100° .
21200.7 F 1734	-Frontier.	1° 18.9' N 104° 03.6' E	Fl.Y. period 3s	23 7	3	Yellow round tower on piles.	
21201 F 1736.5	--Cafni Jetty, W. head.	1° 23.4' N 104° 00.0' E	F.R.				
21201.5 F 1736.55	--E. head.	1° 23.4' N 104° 00.1' E	F.R.				
21202 F 1733.19	South Changi.	1° 18.9' N 103° 58.6' E	Fl.Y. period 10s	16 5	4	Yellow round metal tower; 10.	
21204 F 1739	-Tg. Chek Jawa.	1° 24.5' N 103° 59.5' E	Fl.W. period 5s	89 27	10	White triangular daymark, point down, white concrete base; 20.	Visible 309° -314° .
21208 F 1740	-Malang Papan.	1° 24.1' N 103° 59.4' E	Fl.G. period 5s	20 6	5	Green cone, point up, concrete base; 13.	
21212 F 1742	-Fairy, Batu Puteh.	1° 23.5' N 103° 58.3' E	Fl.(2)R. period 10s	23 7	4	Red mast on red concrete base; 16.	
21216 F 1744	-Loyang.	1° 23.0' N 103° 57.9' E	Dir.Fl.(2)W.R.G. period 10s	19 6	W. 10 R. 8 G. 8	Red concrete pile beacon, red triangular daymark, point up.	G. 128° -129° , W.-133° , R.- 135° .

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MALAYSIA-SINGAPORE-INDONESIA (SINGAPORE STRAIT)							
21220 <i>F 1748</i>	-Tg. Tajam.	1° 25.3' N 103° 55.6' E	Fl.(3)G. period 10s	20 6	4	Green triangular daymark, point up, green concrete base; 16.	
21222 <i>F 1745</i>	Dawes Rock.	1° 25.6' N 103° 57.1' E	Fl.G. period 5s		5	White pile.	
SINGAPORE:							
21240 <i>F 1766</i>	-Tebrau Reach Range, front.	1° 28.9' N 103° 48.4' E	Fl.G. period 5s	20 6	5	White concrete pile beacon, triangular topmark.	Visible 271° -061°.
21244 <i>F 1766.1</i>	--Rear, 1280 meters 289° 04' from front.	1° 29.2' N 103° 47.7' E	Iso.G. period 5s	30 9	5	White concrete pile beacon, triangular topmark.	Visible 280° -027°.
21252 <i>F 1770.6</i>	-Royal Malaysian Naval Base Jetty, head.	1° 27.3' N 103° 46.7' E	Q.R.		5	Metal column; 23.	
21256 <i>F 1770.62</i>	--Elbow.	1° 27.2' N 103° 46.7' E	Q.G.		5	Metal column; 23.	
21260 <i>F 1733</i>	-Bedok.	1° 18.5' N 103° 56.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	249 76	20	Red concrete cubicle on rooftop of 25 story apartment block; 249.	Visible 261° -067°.
21264 <i>F 1733.17</i>	-Keta.	1° 18.3' N 103° 58.1' E	Fl.Y. period 2s	33 10	5	Yellow metal tower, on piles, yellow triangular daymark.	Radar reflector.
21265	-Tanah Merah.	1° 18.7' N 103° 59.0' E	Fl.Y. period 5s	20 6	7	Yellow round tower.	
21268 <i>F 1732.5</i>	-Amber.	1° 17.9' N 103° 54.3' E	Fl.Y. period 2.5s	59 18	5	SPECIAL Y, tower; 49.	Visible 256° -058°.
21276 <i>F 1726.2</i>	-South Kallang.	1° 16.8' N 103° 52.6' E	Fl.Y. period 6s	16 5	4	SPECIAL Y, beacon, topmark.	
21280.5 <i>F 1726.4</i>	-South Marina.	1° 16.7' N 103° 52.4' E	Fl.Y. period 6s	16 5	4	SPECIAL Y, beacon, topmark.	
21296 <i>F 1725</i>	-AVIATION LIGHT.	1° 17.6' N 103° 51.2' E	Fl.W. period 2s	771 235	14	On hotel roof.	Obstruction light.
21298 <i>F 1718.7</i>	-Outer Shoal.	1° 15.0' N 103° 51.8' E	Fl.G. period 5s	26 8	5	STARBOARD (A) G, articulated beacon, topmark.	AIS.
21300 <i>F 1721</i>	-Terumbu Selegi.	1° 13.6' N 103° 49.6' E	Fl.R. period 2.5s	19 6	5	Red metal framework tower on red masonry base.	
21320 <i>F 1719.2</i>	-N.W. Boat.	1° 15.2' N 103° 50.5' E	Fl.(3)R. period 15s	13 4	4	Red box, on red triangular masonry base.	
21332 <i>F 1718.4</i>	-Kukor.	1° 14.4' N 103° 50.9' E	Fl.R. period 5s	23 7	3	PORT (A) R, beacon, topmark.	

SINGAPORE-INDONESIA

SINGAPORE:							
21336 <i>F 1698</i>	-Pulau Sakijang Pelepah.	1° 13.3' N 103° 51.3' E	Fl.W. period 2.5s fl. 0.8s, ec. 1.7s	195 59	15	Black wooden framework tower; 36.	AIS.
21340 <i>F 1699</i>	-Pulau Tembakul off SE. end.	1° 13.3' N 103° 51.8' E	Fl.R. period 5s	20 6	4	Red fiberglass tower; 13.	
21342 <i>F 1699.5</i>	-Kusu.	1° 13.5' N 103° 51.5' E	Fl.R. period 2.5s	16 5	3	PORT (A) R, beacon, topmark.	
21343 <i>F 1717</i>	-Seringat.	1° 13.9' N 103° 51.5' E	Fl.(2)R. period 10s	20 6	3	PORT (A) R, beacon, topmark.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SINGAPORE-INDONESIA							
21344 <i>F 1718</i>	-Kias Reef NW. of islet.	1° 13.9' N 103° 50.7' E	Fl.R. period 10s	16 5	3	Red tower on pile.	
21352 <i>F 1716</i>	-Rengat Beacon.	1° 13.6' N 103° 50.8' E	Fl.R. period 5s	20 6	3	PORT (A) R, beacon, topmark.	
21354 <i>F 1718.6</i>	-Buran.	1° 15.1' N 103° 50.9' E	Fl.W. period 2.5s	13 4	4	White pile on white round base.	Visible 234° 48' -196° 48' .
21354.5 <i>F 1718.8</i>	-Causeway Range, front.	1° 15.7' N 103° 49.4' E	Q.R.		11		
21354.6 <i>F 1718.81</i>	--Rear, 60 meters 240° 32' from front.	1° 15.7' N 103° 49.4' E	Iso.R. period 4s		11		
21355 <i>F 1720.6</i>	-SE. Buran.	1° 14.3' N 103° 50.5' E	Fl.G. period 5s	23 7	3	STARBOARD (A) G, beacon, topmark.	
21355.4 <i>F 1720.4</i>	-Sentosa.	1° 14.2' N 103° 50.0' E	Fl.R. period 2s	23 7	3	PORT (A) R, beacon, topmark.	
21384 <i>F 1701.86</i>	-Ampang SE. extremity of new E. breakwater.	1° 16.1' N 103° 47.7' E	Fl.R. period 2.5s	20 6	4	PORT (A) R, beacon, topmark.	Fl.Y. 2.5s on dolphin 0.8 mile ESE.
21388 <i>F 1702</i>	-Tanjong Berlayer, N. entrance to Keppel Harbor.	1° 15.8' N 103° 48.4' E	Fl.R. period 5s	27 8	4	Red concrete framework tower.	
21392 <i>F 1704</i>	-Tanjong Rimau.	1° 15.6' N 103° 48.4' E	Fl.G. period 5s	20 6	4	STARBOARD (A) G, beacon, topmark.	
21396 <i>F 1720</i>	-Terumbu Palawan.	1° 15.0' N 103° 48.9' E	Fl.G. period 2.5s	26 8	5	Green metal framework tower, green concrete base.	
PULAU BELAKANG PADANG (INDONESIA):							
21400 <i>F 1696</i>	-Batu Berhanti.	1° 11.1' N 103° 53.0' E	Fl.W. period 8s	54 16	13	White beacon, red band.	Radar reflector.
	-RACON		B(- • • •)		7		
21408 <i>F 1697</i>	-N. point of reef.	1° 10.1' N 103° 52.9' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	23 7	7	Green structure; 33.	
21412 <i>F 1697.2</i>	-Mariaman.	1° 09.1' N 103° 54.3' E	Fl.G. period 3s	95 29	8	STARBOARD (A) G, beacon, topmark.	Radar reflector.
21416 <i>F 1697.3</i>	-Tenggara Marian.	1° 08.8' N 103° 54.6' E	Fl.R. period 2s	20 6	4	PORT (A) R, beacon, topmark.	Radar reflector.
21424 <i>F 1697.7</i>	Pulau Batam, Sekupang, on reef W.	1° 07.7' N 103° 55.3' E	Fl.G. period 7s	16 5	4	STARBOARD (A) G, beacon, topmark.	Radar reflector.
21428 <i>F 1697.73</i>	--N.	1° 07.8' N 103° 55.5' E	Fl.R. period 6s	26 8	4	PORT (A) R, beacon, topmark.	Radar reflector.
21436 <i>F 1697.5</i>	--Tanjung Kemudi, NW.	1° 08.5' N 103° 54.8' E	Q.(2)W. period 5s	26 8	6	ISOLATED DANGER BRB, beacon, topmark.	Radar reflector.
21438	<i>Wreck buoy.</i>	1° 13.5' N 103° 57.7' E	Q.W.			N. CARDINAL BY, pillar, topmark.	Buoy marks dangerous wreck.
	RACON		O(- - -)				
21440 <i>F 1697.9</i>	Jodoh Bay, Baruampal.	1° 10.4' N 104° 00.6' E	Iso.W. period 3s	33 10	6	White beacon.	Radar reflector.
21452 <i>F 1697.94</i>	--Pu. Batan, S.	1° 10.0' N 104° 00.0' E	Fl.G. period 5s	26 8	4	STARBOARD (A) G, beacon, topmark.	Radar reflector.
21453 <i>F 1697.93</i>	---N.	1° 10.1' N 103° 59.9' E	Fl.R. period 4s	26 8	4	PORT (A) R, beacon, topmark.	Radar reflector.
21460 <i>F 1697.96</i>	-Batuampar.	1° 10.1' N 104° 00.4' E	Fl.W. period 5s	65 20	8	White beacon, white triangular daymark, point down.	Radar reflector.
	-RACON		B(- • • •)		15		Azimuth coverage 260° -000° .

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SINGAPORE-INDONESIA							
21460.5 <i>F 1697.965</i>	Teluk Joduh.	1° 09.6' N 103° 59.2' E	Fl.W. period 5s	30	8	White beacon.	
21461 <i>F 1697.97</i>	Tering Bay, W. beacon.	1° 09.5' N 104° 03.6' E	Fl.G. period 5s	23	7	STARBOARD (A) G, beacon, topmark.	
21461.1 <i>F 1697.971</i>	-E. beacon.	1° 09.5' N 104° 03.6' E	Fl.R. period 5s	23	7	PORT (A) R, beacon, topmark.	
21461.3 <i>F 1697.981</i>	-SW. beacon.	1° 08.1' N 104° 03.6' E	Fl.G. period 4s fl. 1.5s, ec. 2.5s	23	7	STARBOARD (A) G, beacon, topmark.	
21461.5 <i>F 1697.982</i>	-SE. beacon.	1° 07.9' N 104° 03.6' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	23	7	PORT (A) R, beacon, topmark.	
21461.7 <i>F 1697.983</i>	-S. beacon.	1° 07.8' N 104° 03.5' E	Fl.Y. period 2s fl. 0.5s, ec. 1.5s	23	7	SPECIAL Y, beacon, topmark.	
21461.9 <i>F 1697.979</i>	-N. beacon.	1° 08.3' N 104° 03.6' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	23	7	PORT (A) R, beacon, topmark.	
21462 <i>F 1697.99</i>	Pulau Nongsa.	1° 12.2' N 104° 04.7' E	Fl.W. period 8s	131	20	White beacon.	
21464 <i>F 1695.6</i>	Buffalo Rock.	1° 09.4' N 103° 48.8' E	Q.W.	72	15	N. CARDINAL BY, beacon, topmark; 30.	Radar reflector.
	RACON		K(- • -)				
21472 <i>F 1694.8</i>	Gusong.	1° 11.1' N 103° 47.6' E	Fl.(3)G. period 10s	19	6	STARBOARD (A) G, articulated beacon, topmark; 19.	
21476 <i>F 1694.7</i>	Helen Mar Reef.	1° 07.4' N 103° 46.5' E	Fl.W. period 6s	52	13	N. CARDINAL BY, beacon, topmark.	Radar reflector.
	RACON		M(- -)				
21480 <i>F 1694</i>	Pulau Takong Kecil.	1° 06.2' N 103° 43.1' E	Fl.(2)W.R. period 10s fl. 1s, ec. 1s fl. 1s, ec. 7s	157	12	White metal tower; 99.	R. 065° -136°, W.-065°. Radar reflector.
21484 <i>F 1694.2</i>	-SSE. of Pulau Takong.	1° 05.9' N 103° 43.2' E	Q.(6)+L.Fl.W. period 15s	23	9	S. CARDINAL YB, beacon, topmark.	
	-RACON		TK(- - • -)				
21487 <i>F 1693.95</i>	-Pulau Pelampong.	1° 07.7' N 103° 42.0' E	Fl.W. period 4s fl. 1s, ec. 3s	59	12	White beacon; 49.	
21491 <i>F 1691.8</i>	North Nipa.	1° 10.2' N 103° 39.7' E	Q.W.	39	14	N. CARDINAL BY, articulated beacon, topmark.	Radar reflector.
21492 <i>F 1692</i>	Nipa Reef, N. head.	1° 09.2' N 103° 39.4' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	46	7	White beacon; 33.	
	RACON		N(- •)				
21495 <i>F 1693.9</i>	Pulau Cula.	1° 02.4' N 103° 42.7' E	Fl.(3)W. period 15s	52	12	White beacon.	
21496 <i>F 1693.8</i>	<i>Phillip Channel, Deep Water Route.</i>	1° 03.5' N 103° 38.8' E	Q.(6)+L.Fl.W. period 15s	36	11	S. CARDINAL YB, buoy, topmark.	Radar reflector.
	RACON		D(- • •)		16		
21500 <i>F 1693</i>	Raffles.	1° 09.6' N 103° 44.5' E	Fl.(3)W. period 20s	105	20	White round tower; 95.	Radar reflector. DGPS Station.
	RACON		O(- - -)				(3 & 10cm)

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SINGAPORE-INDONESIA							
21504 F 1693.2	-Semaphore tower.	1° 09.6' N 103° 44.5' E	Iso.W. period 10s	135 41	6	Metal framework tower.	Traffic signals. At night, light X-shaped. By day, black cone points up over black cylinder. Occasional.
21508 F 1695	Pulau Sebarok.	1° 11.8' N 103° 48.4' E	Fl.R. period 5s	23 7	10	PORT (A) R, tower, topmark.	
21528 F 1695.3	-Jambi West.	1° 12.2' N 103° 47.6' E	Q.(9)W. period 15s	13 4	3	W. CARDINAL YBY, beacon, topmark.	Q.R. lights mark ends of jetty 500 meters NNW.
21540 F 1690.7	Gerita Beacon.	1° 13.4' N 103° 43.5' E	Fl.(2)W. period 10s	26 8	4	ISOLATED DANGER BRB, tower, topmark.	
21544 F 1690.6	Selat Pauh.	1° 13.4' N 103° 45.0' E	Fl.G. period 5s	20 6	3	Green tubular tower on dolphin.	
21545 F 1690.72	Semakau, N.	1° 13.1' N 103° 45.5' E	Q.W.	20 6	3	N. CARDINAL BY, beacon, topmark.	Radar reflector.
21545.5 F 1690.725	Pulau Sakeng.	1° 12.6' N 103° 46.6' E	Dir.F.W.R.G.	49 15	13		G. 015° 31' -016° 33' , W.- 017° 37' , R.-019° 18' . Occasional.
21546 F 1690.73	-NE.	1° 12.6' N 103° 46.8' E	Fl.Y. period 5s	16 5	3	Yellow round tower; 10.	
21552 F 1690	-First Bukom.	1° 14.3' N 103° 46.3' E	Q.W.	13 4	5	N. CARDINAL BY, beacon, topmark.	
21556 F 1690.1	-Second Bukom.	1° 14.2' N 103° 46.5' E	Q.(6)+L.Fl.W. period 15s	13 4	5	S. CARDINAL YB, tower, topmark.	
21560 F 1690.2	-Third Bukom.	1° 13.9' N 103° 46.7' E	V.Q.W.	13 4	5	N. CARDINAL BY, tower, topmark.	
21564 F 1690.4	-Fourth Bukom.	1° 13.8' N 103° 46.7' E	V.Q.(6)+L.Fl.W. period 10s	13 4	6	S. CARDINAL YB, tower, topmark.	
21568 F 1690.5	-South Bukom.	1° 13.2' N 103° 46.8' E	Q.(6)+L.Fl.W. period 15s	13 4	3	S. CARDINAL YB, tower, topmark.	
21572 F 1690.55	-Jong.	1° 12.8' N 103° 47.4' E	Q.(3)W. period 10s	13 4	4	E. CARDINAL BYB, beacon, topmark.	
21576 F 1688	Cyrene Reef.	1° 15.3' N 103° 45.5' E	Fl.R. period 2.5s	26 8	10	Red framework tower.	
	RACON		M(- -)				(3 & 10 cm)
21580 F 1687	Cyrene Reefs, Pandan.	1° 15.5' N 103° 44.5' E	Q.(9)W. period 15s	20 6	6	W. CARDINAL YBY, tower, topmark.	
21584 F 1686.4	Merbau.	1° 16.0' N 103° 44.0' E	Fl.(3)R. period 15s	23 7	5	Red metal framework tower, red concrete base.	
21586 F 1701.8	Seraya Chemical Pier Range, front.	1° 16.2' N 103° 44.3' E	Fl.Y. period 2s	26 8	1	Yellow steel pole, yellow cone daymark, point up.	
21586.1 F 1701.81	-Rear, 175 meters 281° 28' from front.	1° 16.2' N 103° 44.2' E	Fl.Y. period 4s	33 10	1	Yellow steel pole, yellow cone daymark, point down.	
21588 F 1701.75	Pulau Seraya, AVIATION LIGHT.	1° 16.8' N 103° 43.5' E	Fl.W.	597 182	12	Power station chimney.	Obstruction light.
21590 F 1700.6	Palau Seraya, OT1.	1° 16.7' N 103° 44.2' E	Fl.Y. period 10s	17 5		Yellow beacon.	
21590.5 F 1700.65	-OT2.	1° 16.8' N 103° 44.2' E	Fl.Y. period 2.5s	30 9		Yellow beacon.	
21591 F 1700.7	-OT3.	1° 16.8' N 103° 44.1' E	Fl.Y. period 4s	17 5		Yellow beacon.	
21595 F 1700.5	Pasir Panjang Terminal, PPT1.	1° 17.1' N 103° 45.2' E	Fl.G. period 5s	16 5	3	STARBOARD (A) G, beacon, topmark.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SINGAPORE-INDONESIA							
21595.1 <i>F 1700.52</i>	-PPT-2.	1° 17.1' N 103° 45.4' E	Fl.(2)G. period 10s	16 5	3	STARBOARD (A) G, beacon, topmark.	
21596 <i>F 1700.1</i>	-Damar Laut.	1° 18.0' N 103° 43.4' E	Dir.FI.W.R.G. period 2.5s	39 12	W. 9 R. 7 G. 7	Beacon, white triangular daymark, point up.	G. 308° 36' -310° 36', W.- 313° 36', R.-315° 36'. In line 312° 06' with beacon, white triangular daymark, point down.
21601 <i>F 1701.6</i>	Merlimau, E. terminal.	1° 17.6' N 103° 43.2' E	Fl.Y. period 3s				
21601.1 <i>F 1701.62</i>	-W. terminal.	1° 17.7' N 103° 42.9' E	Fl.Y. period 6s				
21604 <i>F 1685.48</i>	Chawan Beacon.	1° 17.2' N 103° 42.1' E	Fl.R. period 5s	10 3	3	PORT (A) R, pile, topmark.	
21608 <i>F 1685.6</i>	-Esso Bn. G.	1° 17.1' N 103° 41.9' E	V.Q.G.	26 8	5	Green tubular tower on dolphin; 6.	
21620 <i>F 1701.22</i>	GATX terminal, W. head.	1° 17.9' N 103° 43.8' E	Fl.Y. period 2.5s	13 4	4	Dolphin.	
21624 <i>F 1701.2</i>	-E. head.	1° 17.8' N 103° 44.0' E	Fl.Y. period 5s	16 5	4	Dolphin.	
21625 <i>F 1700.38</i>	-Caltex Range, front.	1° 17.6' N 103° 44.5' E	Fl.Y. period 2s	20 6	2	Triangular daymark, point up.	
21625.1 <i>F 1700.39</i>	--Rear, 110 meters 339° 52' from front.	1° 17.7' N 103° 44.5' E	Fl.Y. period 4s	30 9	2	Triangular daymark, point down.	
21628 <i>F 1686</i>	Selat Sinki Beacon.	1° 14.0' N 103° 43.3' E	Fl.(3)G. period 15s	27 8	10	Green concrete tower.	AIS.
21632 <i>F 1685.8</i>	Terumbu Serebut.	1° 14.8' N 103° 42.1' E	Fl.(2)R. period 10s	29 9	10	PORT (A) R, beacon, topmark.	
	RACON		G(- - •)		10		(3 & 10cm)
21636 <i>F 1686.3</i>	Ayer Beacon.	1° 16.1' N 103° 42.4' E	Dir.FI.W.R.G. period 3s	33 10	W. 10 R. 4 G. 4	White metal pipe, white triangular daymark.	G. 299° -305°, W.-309°, R.- 315°.
21656 <i>F 1684</i>	Sultan Shoal.	1° 14.4' N 103° 38.9' E	Fl.(2)W. period 15s fl. 0.2s, ec. 3.6s fl. 0.2s, ec. 11s	66 20	20	White round tower on 2-story dwelling; 59.	Radar reflector.
	RACON		K(- • -)		15		(3 & 10cm)
21660 <i>F 1685.65</i>	Helios Terminal Entrance, breakwater, head.	1° 13.7' N 103° 40.2' E	Fl.(2)G. period 4s	20 6	5	Green beacon, triangular daymark, point up.	
21664 <i>F 1685.03</i>	Tuas.	1° 17.0' N 103° 39.4' E	Fl.R. period 5s	20 6	3	PORT (A) R, articulated beacon, topmark.	
21672 <i>F 1685.05</i>	Gul.	1° 17.3' N 103° 39.6' E	Fl.(3)G. period 15s	16 5	3	STARBOARD (A) G, articulated beacon, topmark.	
21681 <i>F 1684.4</i>	Tuas Fuel Oil Jetty, E.	1° 16.7' N 103° 38.8' E	Fl.Y. period 2s	16 5		Yellow pole on dolphin.	
21681.1 <i>F 1684.5</i>	-W.	1° 16.7' N 103° 38.6' E	Fl.Y. period 4s	16 5		Yellow pole on dolphin.	
21682 <i>F 1679</i>	Tuas jetty, NW. head.	1° 17.2' N 103° 36.7' E	Fl.Y. period 5s			Yellow tower.	
21682.1 <i>F 1679.2</i>	-SE. head.	1° 17.2' N 103° 36.8' E	Fl.Y. period 2.5s			Yellow tower.	
21685 <i>F 1681</i>	Johore Strait.	1° 20.7' N 103° 38.0' E	Fl.W. period 10s	49 15		White concrete tower.	
21686 <i>F 1680</i>	Pulo Merambong, W. entrance to Johore Strait.	1° 18.9' N 103° 36.6' E	Fl.W. period 5s fl. 0.3s, ec. 4.7s	75 23	10	White round tower.	Visible 165° -083°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SINGAPORE-INDONESIA							
21686.1 <i>F 1678</i>	Tanjung Pelepas.	1° 20.0' N 103° 33.8' E	Dir.Iso.W.R.G.	62 19	6	White metal round tower.	G. 014° 06' -015° 06' , W.- 016° 12' , R.-017° 18' .
MALAYSIA-WEST COAST							
21686.5 <i>F 1676.5</i>	Pengkalan Penghulu.	1° 17.2' N 103° 28.8' E	Fl.(2)G. period 5s	30 9	5	White structure, green triangular daymark.	
21687 <i>F 1676</i>	Kukup, outer.	1° 17.7' N 103° 26.6' E	Fl.G. period 3s	47 14	8	White column, green triangular daymark.	
21687.1 <i>F 1676.2</i>	--Inner.	1° 18.7' N 103° 26.5' E	Fl.R. period 4s	46 14	5	Red square on white column.	
21688 <i>F 1670</i>	Pontian Kechii, S. side of entrance.	1° 29.0' N 103° 23.0' E	Fl.W. period 5s	33 10	6	Iron framework beacon.	Fishing light. F.R. on radio mast 0.3 mile N.
21689 <i>F 1670.1</i>	Sungai Pontian Besar.	1° 30.3' N 103° 22.2' E	Fl.G. period 5s	33 10	5	White column on pile.	
21690 <i>F 1669</i>	Mudah Selatan.	1° 25.2' N 103° 11.2' E	Fl.(3)W. period 15s	85 26	16	White round fiberglass tower on pile.	
	RACON		O(---)		15		(3 & 10cm)
21691 <i>F 1669.1</i>	Panjang Selatan.	1° 23.4' N 103° 07.8' E	Fl.W. period 5s	85 26	15	White round fiberglass tower on pile.	
21692 <i>F 1668</i>	Pulau Pisang.	1° 28.2' N 103° 15.4' E	Fl.W. period 10s	493 150	20	White iron round tower; 53.	Visible over Pulo Cocob.
21696 <i>F 1660</i>	Sungai Benut.	1° 35.0' N 103° 16.2' E	Fl.W. period 10s	41 12	8	White tower on concrete pile.	
21698	Kuala Sg. Rengit.	1° 38.9' N 103° 08.1' E	Fl.W. period 4s	33 10	8	White structure.	
21699 <i>F 1657</i>	Parit Botak.	1° 42.0' N 103° 04.4' E	Fl.G. period 7s	35 11	5	White column, green triangular daymark.	
21701 <i>F 1655</i>	Mudah Utara.	1° 37.2' N 102° 57.1' E	Fl.(2)W. period 6s	98 30	15	White round fiberglass tower on pile.	
21703 <i>F 1654</i>	Panjang Utara.	1° 35.5' N 102° 46.7' E	Fl.(2)W. period 10s	92 28	16	White fiberglass tower on piled platform.	
21703.5 <i>F 1653.5</i>	Kuala Sungai Ayam.	1° 44.8' N 102° 55.7' E	Fl.R. period 3s	39 12	5	White column on pile, red square daymark.	
21708 <i>F 1652</i>	Pulau Sialu.	1° 47.0' N 102° 53.0' E	Fl.W. period 3s	57 17	5	White masonry tower; 49.	F.R. and F.G. mark passage through bridge 4.6 miles NNE. F.R. on radio masts 3.75 miles ENE.
21712 <i>F 1652.5</i>	Bukit Segenting.	1° 47.7' N 102° 53.2' E	Fl.(4)W. period 30s	282 86	23	White masonry tower; 46.	
21716 <i>F 1650</i>	Tanjong Tohor.	1° 50.7' N 102° 42.4' E	Fl.W. period 5s	52 16	13		Radar reflector.
21718 <i>F 1648</i>	Parit Jawa.	1° 56.7' N 102° 37.6' E	Fl.R. period 4s	36 11	5	White column on piles, red square daymark.	
	MUAR:						
21720	-Entrance Lighted Buoy.	2° 03.0' N 102° 30.1' E	Fl.G. period 5s			Green buoy.	
21724 <i>F 1646</i>	-N. side of river entrance.	2° 03.0' N 102° 33.0' E	Fl.W. period 10s	41 12	5	White iron pile structure; 40.	Obscured by trees when bearing less than 011° .
21725 <i>F 1646.2</i>	-1G.	2° 02.5' N 102° 30.7' E	Q.G.	16 5	5	Green column on piles.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MALAYSIA-WEST COAST							
21726 F 1646.5	-2R.	2° 03.6' N 102° 31.1' E	Q.R.		16 5	5	Red column on piles.
21728 F 1644	Pulau Undan.	2° 02.9' N 102° 19.9' E	Fl.(2)W. period 15s		175 53	18	Red octagonal tower, white square house; 49.
21730 F 1642	Kuala Umbai.	2° 09.2' N 102° 20.1' E	Fl.G. period 5s		33 10	8	White concrete tower, green triangular daymark.
21731 F 1641	Sungay Duyong.	2° 10.3' N 102° 17.3' E	Fl.(2)W. period 5s		20 6	7	Metal post.
21732 F 1640	Pulau Panjang.	2° 10.0' N 102° 15.0' E	Fl.R. period 5s fl. 1s, ec. 4s		18 5	6	White beacon.
21734 F 1633	Batu Gelama.	2° 10.5' N 102° 14.9' E	Fl.W. period 5s		13 4	8	White round concrete tower; 12.
MELAKA (MALACCA):							
21735 F 1637	-Entrance.	2° 11.1' N 102° 14.5' E	Fl.R. period 4s		34 10	5	White piled structure, red square daymark.
21736 F 1634	-W. breakwater, head.	2° 11.3' N 102° 14.8' E	Fl.R. period 4s		12 4	4	Concrete column; 14. <i>Temporarily extinguished (1985).</i>
21740 F 1636	-E. breakwater, head.	2° 11.3' N 102° 14.7' E	Fl.G. period 4s		12 4	4	Concrete column; 14. <i>Temporarily extinguished (1985).</i>
21742	Tanjung Panchor.	2° 16.5' N 102° 04.1' E	Fl.G. period 4s		21 6	5	Beacon, white.
21744 F 1629	Tanjong Bruas.	2° 13.0' N 102° 09.0' E	Q.R.		25 8	8	Orange concrete column on 3 pile base.
21744.3 F 1628.65	NW. of Tanjung Keling.	2° 13.6' N 102° 08.0' E	Iso.Y. period 4s				Articulated beacon.
21744.4 F 1628.6	-NW.	2° 13.7' N 102° 07.9' E	Q.Y.				Articulated beacon.
PELABUHAN SUNGAI UDANG:							
21744.6 F 1628.1	-SBM.	2° 11.7' N 102° 06.5' E	Mo.(U)W. period 10s			Yellow SBM.	Horn: Mo.(U) ev. 30s. Radar reflector.
	-RACON		U(••-)				
21745 F 1628.3	-Oil terminal, N. dolphin.	2° 15.2' N 103° 10.0' E	F.R.				
21745.2 F 1628.35	-Berth 4.	2° 14.8' N 102° 07.4' E	Q.G.				
21745.4 F 1628.4	-Berth 3.	2° 14.5' N 102° 07.6' E	Q.R.				
21745.6 F 1628.45	-S. dolphin.	2° 14.3' N 102° 07.8' E	F.R.				
21746 F 1627.6	Sungai Baru.	2° 21.2' N 102° 02.1' E	Fl.R. period 4s		36 11	5	Beacon, white square daymark.
21746.5 F 1627.9	Telok Gong intake.	2° 19.9' N 102° 02.7' E	Fl.Y. period 5s		36 11	7	Yellow column on piles.
21747	Bu Tengah.	2° 21.2' N 101° 59.2' E	Fl.(4)W. period 6s		26 8	5	
21748 F 1626	Tanjong Tuan.	2° 24.5' N 101° 51.1' E	Fl.(3)W. period 15s		388 118	23	White round tower; 78.
21748.5 F 1625	-N.	2° 27.8' N 101° 50.7' E	Fl.(4)W. period 15s		26 8	5	White column.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MALAYSIA-WEST COAST							
21749 F 1627	Kuala Linggi, outer.	2° 22.0' N 101° 57.2' E	Fl.(2)W. period 10s	13 4	5	White round beacon.	
21750 F 1627.4	-Inner.	2° 23.5' N 101° 58.2' E	Fl.(2)G. period 10s	10 3	5	White round beacon.	
21752 F 1623	Port Dickson.	2° 31.2' N 101° 47.8' E	Fl.R. period 4s	20 6	7	Black steel pile, red platform and column.	
21756 F 1623.6	Port Dickson Intake, Seaward end.	2° 31.8' N 101° 47.1' E	F.R.	16 5	5	Metal post.	
21760 F 1622.5	Arang.	2° 30.8' N 101° 47.2' E	Fl.(2)W. period 8s			ISOLATED DANGER BRB, articulated beacon, topmark.	
21764 F 1622	Pulau Arang, SW. side.	2° 31.0' N 101° 48.0' E	Fl.W. period 10s	90 27	9	White metal framework tower.	Visible 289° -138° 30' .
21768 F 1621.5	-Kuala Lukut.	2° 33.6' N 101° 47.6' E	Fl.W. period 5s	26 8	8	White platform on concrete pile.	Fishing light.
21770 F 1621	Sungai Chuah.	2° 36.3' N 101° 45.3' E	Fl.W. period 15s	26 8	8	White square concrete tower.	Fishing light.
21771 F 1620.5	Sepang Outer.	2° 32.9' N 101° 43.9' E	Fl.G. period 2s	49 15	7	White metal framework tower, green triangular daymark.	
21772 F 1620	Kuala Sepang Besar.	2° 35.0' N 101° 42.8' E	Q.W.	61 19	8	White metal framework tower, white square daymark.	
21773 F 1620.3	-Jimah.	2° 34.1' N 101° 43.9' E	Fl.W. period 3s	33 10	11	White column on piles.	
21773.5 F 1619.7	Bambek Shoal.	2° 32.6' N 101° 40.7' E	Fl.W. period 5s	26 8	8	Pile, white platform.	
21774 F 1619.4	Sepat.	2° 33.9' N 101° 23.4' E	Q.W.	46 14	15	N. CARDINAL BY, beacon, topmark.	Radar reflector.
	RACON		C(- • - •)				
21776 F 1619	Tanjung Gabang.	2° 40.9' N 101° 29.0' E	Fl.W. period 4s	92 28	16	Round concrete tower on piles.	
21780 F 1614	Bukit Jugra.	2° 50.1' N 101° 25.1' E	Fl.W. period 10s	479 146	24	White column; 82.	
21782 F 1614.5	Kuala Langat.	2° 48.1' N 101° 24.1' E	Fl.G. period 5s	13 4	8	Pile, green square daymark.	
21784 F 1616	One Fathom Bank.	2° 53.3' N 100° 59.7' E	Fl.(4)W. period 20s	141 43	23	White round steel tower, red bands on piles.	
	RACON		O(- - -) period 120s		20		
21788 F 1617	Beacon, 9.4 km. SW. of One Fathom Bank.	2° 49.4' N 100° 56.1' E	Q.(6)+L.Fl.W. period 15s	43 13	11	S. CARDINAL YB, articulated beacon, topmark.	Radar reflector.
21792 F 1617.2	Beacon, 10.5 km. SW. of One Fathom Bank.	2° 48.6' N 100° 56.5' E	Q.W.	43 13	11	N. CARDINAL BY, articulated beacon, topmark.	Radar reflector.
	RACON		M(- -)		20		
21794 F 1617.4	Beacon, 13.8 km. SW. of One Fathom Bank.	2° 48.8' N 100° 53.7' E	Fl.Y. period 10s	36 11	11	SPECIAL Y, articulated beacon, topmark.	
21795 F 1616.5	One Fathom Bank North.	3° 00.9' N 100° 51.9' E	Fl.W. period 3s	98 30	15	White round tower on piles.	
	RACON		T(-)				
21800 F 1612	Tanjung Tenteram.	3° 00.1' N 101° 12.5' E	Fl.R. period 3s	33 10	6	White column on piles, red square daymark.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MALAYSIA-WEST COAST							
21806 <i>F 1609</i>	Tanjung Mahang Range, front.	2° 54.9' N 101° 16.2' E	Q.W.		62 19	10 White lattice tower on concrete platform, white cone daymark, point up.	
21806.1 <i>F 1609.1</i>	-Rear, 200 yards 011° 22' from front.	2° 55.0' N 101° 16.1' E	Iso.R. period 4s		85 26	8 White lattice tower on concrete platform, white cone daymark point down.	
21808 <i>F 1608</i>	-First Point Beacon No. 28.	2° 55.2' N 101° 16.6' E	Fl.R. period 4s		56 17	5 White column, red square topmark.	Visible 222° -032° .
21812 <i>F 1607</i>	-No. 27.	2° 55.6' N 101° 17.5' E	Fl.W. period 4s		56 17	5 White column, green triangular daymark.	
21816 <i>F 1606</i>	No. 25.	2° 59.0' N 101° 19.0' E	Fl.(2)R. period 15s		41 12	4 Black metal tower, white round daymark.	
21820 <i>F 1594</i>	-Tanjong Sarang Lang No. 24.	3° 00.0' N 101° 20.4' E	Fl.(2)W. period 10s		85 26	5 White steel framework structure, 2 white rectangular daymarks in vertical line; 82.	F.Y. lights mark NE. and SW. end on terminal 0.85 mile S.
	-Port Kelang (Swettenham):						
21824 <i>F 1598</i>	--South Port No. 14.	2° 59.9' N 101° 23.5' E	Fl.R.		30 9	3 White steel mast; 85.	
21825 <i>F 1596</i>	--South Port, entry.	2° 59.8' N 101° 23.6' E	Dir.Iso.W.R.G. period 4s		48 15	4 Top of 3 story building.	G. 080° 42' -081° 48' , W.-087° 54' , R.-090° 30' .
21826 <i>F 1597</i>	--Marine Department Signal Station.	3° 00.1' N 101° 23.4' E	Fl.R.		92 28	5 Building.	
21828 <i>F 1604</i>	--Beacon No. 17 Range, front.	2° 59.0' N 101° 23.6' E	Fl.W. period 3s		13 4	8 Beacon.	Marks W. limit of prohibited anchorage.
21832 <i>F 1604.1</i>	---Rear, No. 16, 21 meters 168° from front.	2° 59.1' N 101° 23.7' E	Fl.G. period 4s		17 5	8 Beacon.	
21834 <i>F 1595</i>	-Tanjung Harapan.	3° 00.0' N 101° 21.9' E	Fl.R. period 5s		36 11	5 White column on pile platform, red rectangular daymark.	
21836 <i>F 1592</i>	-Beacon No. 20A Range, front.	2° 59.7' N 101° 21.7' E	Q.W.		26 8	10 White concrete column.	
21840 <i>F 1592.1</i>	--Rear No. 19A, 145 meters 153° 58' from front.	2° 59.6' N 101° 21.7' E	Fl.G. period 2s		39 12	11 White concrete column.	
21844 <i>F 1593</i>	--Sungai Labohan Gurap No. 21.	3° 00.0' N 101° 21.0' E	Fl.W. period 3s		41 12	4 Beacon, white rectangular daymark.	
21846 <i>F 1591</i>	-Coal and Oil Jetty, N. head.	3° 06.6' N 101° 18.7' E	Fl.R. period 5s				
21846.2 <i>F 1591.2</i>	--S. head.	3° 06.5' N 101° 18.6' E	Fl.R. period 5s				
21848 <i>F 1586</i>	-Pulau Angsa.	3° 11.2' N 101° 13.0' E	Fl.W.R. period 10s		117 36	W. 22 R. 15 White round concrete tower; 35.	W. 145° -315° , R.-145° . Partially obscured by Obstruction light F.R. 28m 323° 30' -010° 30' .
21851 <i>F 1584</i>	-Batuan Penyau.	3° 13.8' N 101° 12.7' E	Fl.(2)W. period 5s		20 6	10 White column on piles.	
	-RACON		P(• - - •)				
21856 <i>F 1585</i>	-Kuala Sungai Buloh.	3° 15.1' N 101° 17.0' E	Fl.W. period 3s		46 14	8 White column on piles.	
21860 <i>F 1578</i>	Kuala Selangor.	3° 20.0' N 101° 15.0' E	Fl.(2)W. period 15s fl. 0.4s, ec. 3.4s fl. 0.4s, ec. 10.8s		238 73	18 White round metal tower, masonry base; 90.	
21861 <i>F 1580</i>	Permatang Angsa.	3° 20.0' N 101° 00.0' E	Q.W.		72 22	15 N. CARDINAL BY, beacon, topmark.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MALAYSIA-WEST COAST							
21862 F 1579	-Kuala Sungai.	3° 18.5' N 101° 13.1' E	Fl.W. period 6s	42 13	8	White column on piles.	
21864 F 1576	Sungai Haji Durani.	3° 38.0' N 101° 01.0' E	Fl.W. period 5s	39 12	9	White concrete column; 39.	Fishing light.
21866 F 1577	Kuala Si Tenggi.	3° 23.1' N 101° 09.9' E	Fl.R. period 5s	26 8	5	White structure.	
21868 F 1576.4	Sungai Tengorak.	3° 27.0' N 101° 07.0' E	Fl.W. period 3s	36 11	9	White concrete column; 39.	Fishing light.
21874 F 1576.2	Kuala Sg. Sekinchan.	3° 29.7' N 101° 05.4' E	Fl.G. period 4s	36 11	5	White structure.	
21876 F 1574.6	Sungai Burong.	3° 41.2' N 100° 55.7' E	Fl.W. period 3s	39 12	8	White column on piles.	Fishing light.
21878	Sungai Pulai.	3° 43.3' N 100° 54.9' E	Fl.(2)G. period 5s	38 12	5	White column on piles, green top.	
21880 F 1574.3	Kuala Bernam.	3° 45.6' N 100° 52.1' E	Fl.R. period 4s	39 12	5	White column on piles.	Fishing light.
21884 F 1573.5	Kuala Bernam.	3° 51.3' N 100° 49.2' E	Fl.W. period 4s	46 14	10	White round tower on pile.	
21888	-Fairway Lighted Buoy.	3° 49.0' N 100° 46.0' E	L.Fl.W. period 10s			SAFE WATER RW, spherical.	
21892 F 1573	-Sungai Belukang.	3° 51.0' N 100° 45.0' E	Q.W.	33 10	10	Tower.	Fishing light.
21896 F 1572	Sungai Tiang.	3° 54.3' N 100° 42.3' E	Fl.W. period 5s	26 8	8	White structure.	
21898	Pulau Jarak.	3° 58.7' N 100° 06.1' E	Fl.(2)W. period 15s	531 162	20	White metal framework tower, red bands.	
21900 F 1565	White Rock.	4° 00.4' N 100° 30.5' E	Fl.(2)W. period 10s	70 21	15	Metal framework tower on concrete base; 39.	
	RACON		K(- • -)				
	KUUALA PERAK:						
21904	-Fairway lighted buoy.	4° 03.5' N 100° 39.5' E	L.Fl.W. period 10s			SAFE WATER RW, pillar, topmark.	
21908 F 1569	-Began Datoh.	3° 59.5' N 100° 47.2' E	Fl.R. period 12s		7	Mast.	
21909 F 1570	-Kota Setia.	4° 01.3' N 100° 52.2' E	Fl.W. period 6s		10	Beacon.	
21911	<i>Tapis Oil Field SPM</i> RACON.	4° 08.0' N 105° 07.7' E	T(-)				
	LUMUT:						
21912 F 1558.5	-Pulau Katak.	4° 09.3' N 100° 37.2' E	Fl.W. period 4s	115 35	7	White brick tower; 36.	
	-Selat Dinding - S. Entrance:						
21916 F 1560	--South East Point, on Pulau Pangkor.	4° 11.3' N 100° 35.0' E	Fl.(2)W. period 4s	33 10	8	White round concrete tower; 17.	
21920 F 1560.2	-Hospital Rock.	4° 12.9' N 100° 34.7' E	Fl.R. period 6s fl. 0.5s, ec. 5.5s	16 5	5	White stone column; 8.	
21921 F 1560.5	--Muroh.	4° 13.3' N 100° 35.2' E	F.R.	38 12	5	White column, red square daymark.	Radar reflector.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MALAYSIA-WEST COAST							
21922 F 1560.6	--Batu Gajah.	4° 13.3' N 100° 35.9' E	Q.W.	30 9	3	White post, triangular daymark .	
21923 F 1560.7	--Beting.	4° 14.1' N 100° 35.1' E	F.R.	36 11	5	Black column, white triangular daymark.	2 F.Y. on head of jetty close E. Radar reflector.
21924 F 1554	-Tanjung Hantu.	4° 18.6' N 100° 33.6' E	Fl.W. period 5s	98 30	13	White tower; 20.	
-Selat Dinding - N. Entrance:							
21928 F 1554.9	--Dinding, NW. Entrance Range, front, 1482 meters 127° 57' to rear.	4° 14.7' N 100° 35.0' E	Fl.(2)G. period 5s		6	Black and white checkered tower, red square daymark.	
21932 F 1555	--Common rear.	4° 14.2' N 100° 35.6' E	Iso.W. period 4s	33 10	7		Visible 117° 54' -137° 54' .
21936 F 1555.1	--River Rock, N. Channel Range, front, 820 meters 152° 19' to rear.	4° 14.6' N 100° 35.4' E	Fl.W.R.G. period 3s	30 9	W. 7 R. 4 G. 4	White tower.	W. 150° -154° , R.-332, G.-150° .
21940 F 1557	--Batu Mandi.	4° 16.0' N 100° 33.0' E	Q.W.	23 7	5	Framework tower; 23.	Fishing light.
21944 F 1559	--S. entrance Range, front.	4° 17.4' N 100° 34.3' E	Fl.(3)W. period 20s	36 11	9	White tower, black bands.	
21948 F 1559.1	---Rear, 1852 meters 351° 15' from front.	4° 18.4' N 100° 34.1' E	Fl.W. period 3s	53 16	10	White tower.	
21952 F 1557.3	--NW. 3.	4° 16.2' N 100° 33.2' E	Oc.R. period 3s	19 6	3	Beacon.	
21956 F 1557.4	--NW. 1.	4° 15.7' N 100° 33.9' E	Oc.R. period 3s	30 9	5	White tower.	
21960 F 1558	--Tanjung Awang Kecil.	4° 15.2' N 100° 33.9' E	Fl.W. period 5s	23 7	8	White tower.	Fishing light.
21964 F 1557.5	--NW. 2.	4° 15.3' N 100° 33.8' E	Oc.G. period 3s	19 6	3	Beacon.	<i>Temporarily extinguished (1987).</i>
21964.5 F 1560.9	--Lloyd Rock.	4° 15.4' N 100° 35.1' E	Q.R.	33 10	8	Red can, white column on pile.	
-Sungai Dinding:							
21965 F 1562	--River Passage Range, front.	4° 14.1' N 100° 37.7' E	Fl.(3)W. period 20s	30 9	6	White tower, black bands.	R. lights on radio masts S. 120 meters and W. 1540 meters.
21965.5 F 1562.1	---Rear, 250 meters 114° 20' from front.	4° 14.0' N 100° 37.8' E	Q.W.	39 12	6	White tower.	
21966 F 1562.4	--Lumut Naval Base, W. breakwater, head.	4° 14.3' N 100° 36.7' E	Oc.G. period 6s			Beacon.	
21966.5 F 1562.5	--E. head.	4° 14.3' N 100° 36.8' E	Oc.R. period 6s			Beacon.	3 F.Y. 7m 4M mark dolphins 0.5 mile SE.
21967 F 1563	--Lumut Pier.	4° 14.2' N 100° 38.0' E	F.R.	20 6			
21967.5 F 1563.5	--MFM jetty.	4° 15.8' N 100° 39.4' E	Fl.Y. period 5s	16 5	3	Yellow post on dolphin.	
21968 F 1553.2	Palau Talang.	4° 25.3' N 100° 34.6' E	Fl.W. period 7s	69 21	8	Beacon.	
21970 F 1552.5	Kuala Beruas.	4° 26.7' N 100° 37.0' E	Fl.(2)W. period 10s	72 22	8	White tower, red bands.	
21972 F 1552	Kuala Jurum Mas.	4° 32.1' N 100° 37.7' E	Fl.W. period 4s	30 9	8	White column on piles; 20.	Fishing light.

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MALAYSIA-WEST COAST							
21976 <i>F 1550</i>	Bagan Kuala Larut.	4° 47.0' N 100° 33.0' E	L.F.I.W. period 10s fl. 2s, ec. 8s	22 7	9	Black metal structure, white stripes, concrete base.	Fishing light.
21980 <i>F 1546</i>	Kuala Kurau, entrance.	4° 59.5' N 100° 24.7' E	Fl.W. period 4s	23 7	8	Steel framework structure, concrete base.	Fishing light.
21984 <i>F 1544</i>	Tg. Piandang.	5° 05.0' N 100° 21.5' E	Fl.W. period 3s	30 9	8	White metal structure, concrete base on piles.	Fishing light.
21988 <i>F 1543</i>	Sungei Chenaam.	5° 07.6' N 100° 23.7' E	Fl.G. period 5s	42 13	5	White tower on piles.	
21990 <i>F 1542.5</i>	Kuala Sungai Kerian.	5° 10.6' N 100° 25.0' E	Fl.R. period 3s	34 10	5	White structure, red square daymark.	
PINANG:							
21992 <i>F 1540</i>	-Pulau Rimau.	5° 14.7' N 100° 16.5' E	Fl.(2)W. period 10s	129 39	22	White iron tower; 57.	Fl.Y. 7m 5M lights mark Anchoring Prohibited area to NE.
21996 <i>F 1540.6</i>	-Kuala Jalan Baru.	5° 02.0' N 100° 11.5' E	Fl.(2)W. period 5s	41 12	8	White column on piles.	Fishing light.
21998 <i>F 1540.3</i>	-Pulau Betung.	5° 18.6' N 100° 11.5' E	Fl.W. period 5s	20 6	8	White pillar.	
21999 <i>F 1540.8</i>	-Sungai Pinang.	5° 23.6' N 100° 11.5' E	Fl.W. period 4s	26 8	10	White square concrete column.	Fishing light.
22000 <i>F 1538</i>	-Teluk Tempoyak Kechil.	5° 16.0' N 100° 17.0' E	Aero.Fl.R. period 2s	519 158	12		Obstruction.
22004 <i>F 1538.4</i>	-Teluk Tempoyak Besar.	5° 16.0' N 100° 17.0' E	Aero.Fl.R. period 2.4s	692 211	12		Obstruction.
22005 <i>F 1537.5</i>	-SC 1.	5° 17.9' N 100° 17.9' E	Fl.Y. period 5s	39 12	5	Yellow column on piles.	
22005.1 <i>F 1537.3</i>	-SC 2.	5° 17.4' N 100° 18.5' E	Fl.Y. period 10s	39 12	5	Yellow column on piles.	
22005.2 <i>F 1537</i>	-SC 3.	5° 18.4' N 100° 20.4' E	Fl.Y. period 10s	26 8	5	Yellow column on piles.	
22005.3 <i>F 1537.1</i>	-SC 4.	5° 17.7' N 100° 19.5' E	Fl.Y. period 5s	39 12	5	Yellow column on piles.	
22005.4 <i>F 1536.3</i>	-SC 5.	5° 18.5' N 100° 21.5' E	Fl.Y. period 5s	39 12	5	Yellow column on piles.	
22005.5 <i>F 1536.5</i>	-SC 6.	5° 18.0' N 100° 21.8' E	Fl.Y. period 10s	26 8	5	Yellow column on piles.	
22005.6 <i>F 1536.1</i>	-SC 7.	5° 18.9' N 100° 24.1' E	Fl.Y. period 10s	23 7	5	Yellow column on piles.	
22005.7 <i>F 1536.7</i>	-SC 8.	5° 18.4' N 100° 24.3' E	Fl.Y. period 5s	23 7	5	Yellow column on piles.	
22006 <i>F 1536</i>	-Pulau Jerijak.	5° 19.4' N 100° 19.1' E	Fl.R. period 2.4s	712 217		Beacon.	
22008 <i>F 1532</i>	-Great Kra Flat Range, front.	5° 20.3' N 100° 21.1' E	Fl.W. period 3s	18 5	8	White metal beacon on piles, white triangular daymark, black stripe.	Visible 034° -064° .
22012 <i>F 1532.1</i>	--Rear, 580 meters 044° 05' from front.	5° 19.1' N 100° 20.6' E	Q.W.	19 6	8	White metal beacon on piles, white triangular daymark, black stripe.	Visible 035° -065° .
22016 <i>F 1529</i>	-Owen Beacon.	5° 19.8' N 100° 20.9' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	46 14	5	White column on piles.	

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MALAYSIA-WEST COAST							
22020 F 1527	-Great Kra Flat South Range, front.	5° 19.4' N 100° 20.6' E	Fl.W. period 3s	23 7	10	White column on piles, white triangular daymark, black stripe.	Visible 090° -270° .
22024 F 1527.1	--Rear, 570 meters 185° 02' from front.	5° 20.4' N 100° 21.3' E	Q.W.	38 12	10	White column on piles, white triangular daymark, point down, black stripe.	Visible 090° -270° .
22026 F 1526.5	-Pinang Bridge, Main Channel, S. Approach.	5° 21.2' N 100° 20.8' E	Oc.W.R.G. period 10s	121 37	W. 10 R. 8 G. 8		G. 358° 30' -001° 30' , W.-008° 30' , R.-018° 30' .
22026.1 F 1526.4	--N. Approach.	5° 21.2' N 100° 20.8' E	Oc.W.R.G. period 10s	121 37	W. 10 R. 8 G. 8		R.175° -181° 30' ,W.-188° 30' , G.-195° .
22028 F 1526	-Peal Beacon.	5° 22.2' N 100° 21.1' E	Fl.(2)G. period 5s	33 10	8	White column on piles, green triangular daymark.	
22031 F 1523.5	-Bulk Cargo Terminal.	5° 22.0' N 100° 22.0' E	Oc.W.R.G. period 5s	39 12	W. 10 R. 8 G. 8	Red beacon, white bands, red triangular daymark.	G.163° -166° 30' ,W.-169° 18' , R.-173° .
22032 F 1519	-Sungai Perai, jetty.	5° 23.0' N 100° 22.0' E	2 F.W.	20 6		Iron columns.	One at each end. 2 F.G. shown from outer end (1 at each corner) of Mitchell pier.
22034 F 1519.5	-Sungai Perai.	5° 23.2' N 100° 22.5' E	Iso.W.R.G. period 4s	48 15	W. 10 R. 5 G. 5	White concrete beacon, red bands.	G. 061° -063° , W.-065° , R.-067° .
22036 F 1522	-Light A.	5° 22.5' N 100° 21.9' E	Q.W.			Dolphin.	
22040 F 1523	-Light D.	5° 22.3' N 100° 21.9' E	Q.R.				
22048 F 1512	-Wellesley, S. beacon.	5° 25.3' N 100° 22.2' E	Fl.W. period 5s	44 13	10	White column on pile.	
22052 F 1514	-Naval and Petroleum anchorage.	5° 25.3' N 100° 22.4' E	Fl.R. period 3s	46 14	5	Beacon, white circle.	Visible 090° -180° .
22053	-Container terminal, N. head.	5° 24.9' N 100° 21.6' E	Fl.(3)R. period 5s				
22053.5	--S. head.	5° 24.7' N 100° 21.6' E	Fl.(3)G. period 5s				
22056 F 1494	-Fort Point.	5° 25.0' N 100° 21.0' E	Fl.R. period 2s	87 27	16	White iron framework tower; 70.	F.G. shown from N. and F.R. from S. end of Swetterham pier. 2 F.G. shown from Church Street pier.
22060	-Aston Beacon.	5° 24.3' N 100° 20.7' E	Q.W.	33 10	8	White column on piles, black double cone daymark, points up.	
22064 F 1524	-North limit of Prohibited Anchorage, No. 3 Range, front.	5° 22.9' N 100° 20.0' E	Fl.W. period 2s	42 13	6	Black column on piles, white disc topmark.	
22068 F 1524.1	--Rear, No. 2 about 914 meters 279° from front.	5° 22.9' N 100° 19.6' E	Fl.W. period 2s	43 13	6	Black column on piles, white disc topmark.	
22072 F 1525	-South limit of Prohibited Anchorage, PGB 7 Range, front.	5° 22.4' N 100° 19.9' E	Fl.G. period 5s	39 12	5	White column on piles, green triangular topmark.	
22076 F 1525.1	--Rear, PGB 6 about 704 meters 279° from front.	5° 22.5' N 100° 19.5' E	Fl.G. period 2s	39 12	5	White column on piles, green triangular topmark.	
22088 F 1486	-Muka Head.	5° 28.6' N 100° 10.8' E	Fl.W. period 10s fl. 0.3s, ec. 9.7s	795 242	25	White stone tower; 45.	

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MALAYSIA-WEST COAST							
22092 F 1490	Pulau Tikus.	5° 28.6' N 100° 17.9' E	Fl.W. period 3s fl. 1s, ec. 2s	49 15	10	White stone column; 22.	Visible 139° -278° .
22096 F 1488	NORTH CHANNEL FLOAT.	5° 36.0' N 100° 12.0' E	L.Fl.W. period 10s			Red hull, white stripes.	Liable to drag out of position during the height of SW. monsoon.
22100 F 1483	Kuala Muda.	5° 34.7' N 100° 19.8' E	Fl.W. period 3s	33 10	10	White column on piles.	
22104 F 1482	-Tg. Dawai.	5° 40.8' N 100° 21.7' E	Fl.W. period 8s	22 7	10	White square tower.	
22108 F 1480	Yen.	5° 49.0' N 100° 22.0' E	Fl.W. period 6s	26 8	5	White concrete structure.	Fishing light.
22112 F 1479	Sungai Tabangau Entrance.	5° 58.0' N 100° 21.0' E	Fl.W. period 4s	30 9	4	White concrete pillar.	Fishing light.
22116 F 1478	Sungai Kedah.	6° 06.0' N 100° 17.0' E	Fl.(2)W. period 10s	50 15	5	White tower.	
22118 F 1475	-Kuala Jerlun.	6° 12.4' N 100° 14.0' E	Fl.G. period 3s	33 10	5	White column, green triangular daymark.	
22120 F 1474	Sungai Sanglang.	6° 14.9' N 100° 11.5' E	Fl.W. period 8s	33 10	8	White column on piles.	
22122 F 1477.6	P. Singa Besar, T. Pak Kehar.	6° 11.7' N 99° 44.9' E	Fl.W. period 10s	79 24	10	Concrete structure, white square daymark.	
22123 F 1477.3	Pulau Kedera.	6° 15.4' N 99° 46.2' E	Fl.W. period 5s	260 79	15	White fiberglass tower.	
22124 F 1476	Pulau Enggang.	6° 14.6' N 99° 52.6' E	Fl.W. period 8s	197 60	15	Red metal framework tower, white bands, concrete base; 36.	
22124.5 F 1477.7	Pulau Rebak Besar.	6° 17.6' N 99° 41.4' E	Oc.R.			Beacon.	
22125 F 1476.4	Pulau Langkawi, SE. side.	6° 19.2' N 99° 53.1' E	Fl.G. period 5s	26 8	5	Metal pipe, white daymark.	
22126 F 1476.5	Pulau Timun. Tg Asam.	6° 18.7' N 99° 53.1' E	Fl.W. period 3s	33 10	8	Metal pipe, white daymark.	
22126.5 F 1476.6	-Tg. Penarak.	6° 18.4' N 99° 52.5' E	Fl.G. period 3s	22 7	5	Metal pipe, white daymark.	
22127 F 1476.7	-Pulau Bumbon Besar.	6° 17.4' N 99° 51.7' E	Fl.R. period 4s	33 10	4	Metal pipe, white daymark.	
22130 F 1476.3	Pulau Sigal.	6° 19.6' N 99° 55.6' E	Fl.W. period 5s	91 28	15	Beacon, triangular daymark, point up.	
22132 F 1470	Tanjung Chinchin, on Pulau Langkawi.	6° 26.0' N 99° 38.0' E	Fl.(3)W. period 15s	36 11	10		Temporarily extinguished (1989).
22134 F 1471	Pulau Dangli.	6° 27.0' N 99° 46.7' E	Fl.W. period 10s	282 86	15		
22138 F 1472	Kuala Perlis.	6° 24.2' N 100° 06.0' E	Fl.(2)W. period 5s	30 9	9	White beacon.	
22140 F 1473	Sungai Baharu.	6° 20.0' N 100° 09.4' E	Fl.W. period 4s	25 8	8	White square concrete tower; 28.	Fishing light.
THAILAND-WEST COAST							
22144 F 1194	Ko Yao.	6° 28.0' N 100° 04.2' E	Fl.(3)W. period 15s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 8s	282 86	15	White brick tower; 26.	

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THAILAND-WEST COAST							
22148 <i>F 1193.8</i>	Tanjong Pauh.	6° 29.6' N 100° 05.3' E	Fl.W. period 3s	56 17	9	White metal framework tower; 49.	
22152 <i>F 1192.4</i>	Ko Palai.	6° 30.0' N 99° 10.8' E	Fl.(2)W. period 12s fl. 1.5s, ec. 2s fl. 1.5s, ec. 7s	151 46	16	White metal framework tower; 72.	
22156 <i>F 1192.5</i>	Ko Tanga.	6° 33.4' N 99° 26.7' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	322 98	11	White metal framework tower; 72.	
22160 <i>F 1193</i>	Tanyong Po.	6° 37.1' N 99° 57.0' E	Fl.(2)W. period 12s fl. 0.5s, ec. 1s fl. 0.5s, ec. 10s	135 41	8	White framework tower; 52.	
22168 <i>F 1188</i>	Ko Bulaobot.	7° 04.5' N 99° 23.6' E	Fl.(2)W. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	135 41	16	White brick tower; 36.	
22172 <i>F 1186</i>	Yongsata, N. bank.	7° 06.9' N 99° 40.1' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	157 48	10	White metal framework tower; 59.	
22176 <i>F 1184</i>	Ko Nok.	7° 16.3' N 99° 28.5' E	Fl.W. period 9s fl. 0.2s, ec. 8.8s	43 13	8	White metal framework tower; 26.	
22177 <i>F 1184.5</i>	-Ban Na Klua Nua.	7° 21.5' N 99° 29.0' E	Fl.(2)W. period 6s	24 7	15		
22177.1 <i>F 1184.6</i>	--N.	7° 21.8' N 99° 28.9' E	Fl.R. period 3s	16 5	11		
22178 <i>F 1184.8</i>	-Ko Kho.	7° 23.6' N 99° 30.5' E	Fl.G. period 3s	30 9	5		
22178.1 <i>F 1184.9</i>	--E.	7° 23.6' N 99° 30.5' E	Fl.W. period 3s	46 14	7		
22179 <i>F 1185.1</i>	-Sawmill.	7° 24.0' N 99° 30.3' E	Fl.W. period 3s	33 10	7		
22179.2 <i>F 1185.2</i>	--N.	7° 24.0' N 99° 30.3' E	Fl.R. period 3s	30 9	5		
22179.4 <i>F 1185.4</i>	-Ban Hua Hin.	7° 24.3' N 99° 30.4' E	Fl.Y. period 3s	30 9	6		
22179.6 <i>F 1185.5</i>	--N.	7° 24.4' N 99° 30.4' E	Fl.W. period 3s	33 10	7		
22180 <i>F 1183</i>	Ko Lanta Yai.	7° 28.1' N 99° 05.9' E	Fl.(3)W. period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 10.5s	121 37	15	White concrete tower; 36.	
22181 <i>F 1182.8</i>	Ko Ma.	7° 36.9' N 98° 51.9' E	Fl.(2)W. period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6s	259 79	10	White framework tower; 20.	
22182	Laem Phra Chao.	7° 45.7' N 98° 18.3' E	Fl.W. period 9s fl. 0.2s, ec. 8.8s	312 95	22	White concrete tower; 62.	
22184 <i>F 1170</i>	Ko Kao Noi.	7° 44.2' N 98° 17.8' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	171 52	10	White concrete tower; 39.	
22188 <i>F 1174</i>	Ko Taphao Noi.	7° 49.9' N 98° 25.4' E	Fl.W. period 9s	223 68	20	White concrete tower; 39.	
22189 <i>F 1174.3</i>	Laem Phan Wa.	7° 48.0' N 98° 24.6' E	Fl.(3)W.R. period 15s	167 51	23		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
THAILAND-WEST COAST							
22189.1 <i>F 1174.5</i>	-SW. pier, Laem Phan Wa.	7° 47.9' N 98° 24.4' E	Fl.W. period 5s	10 3	6	Red and white beacon.	Radar reflector.
22189.3 <i>F 1174.6</i>	-Entrance Range A , front.	7° 49.5' N 98° 24.2' E	Fl.Y. period 3s	102 31	21	White beacon, diamond shaped daymark.	
22189.31 <i>F 1174.61</i>	--B , rear, about 260 meters 332° 06' from front.	7° 49.6' N 98° 24.2' E	Iso.Y. period 3s	105 32	21	White beacon, diamond shaped daymark.	
22189.5 <i>F 1174.8</i>	Phuket Wharf, SE. corner.	7° 49.8' N 98° 24.3' E	2 F.R. (vert.)				2 F.R. (vert.) mark NW. corner of wharf.
22190 <i>F 1175</i>	Ko Phuket, Laem Tukkae.	7° 52.1' N 98° 24.9' E	Fl.R. period 4s	7 2	5		2 Fl.R. lights 0.4 mile and 0.6 mile NNW.
22190.2 <i>F 1175.2</i>	-Khlong Tha Chin.	7° 52.5' N 98° 24.9' E	Fl.R. period 2s	26 8	4		
22190.4 <i>F 1175.4</i>	-Harbor.	7° 52.7' N 98° 24.9' E	Fl.W. period 5s	36 11	7		
KRABI:							
22191 <i>F 1182.6</i>	-Khlong Siboya Entrance Range, front, 7A.	7° 56.1' N 98° 59.4' E	Fl.W. period 3s		8	White beacon, diamond shaped daymark.	
22191.5 <i>F 1182.601</i>	--Rear, 7B, 1204 meters 075° 30' from front.	7° 56.3' N 99° 00.1' E	Iso.W. period 3s		10	White beacon, diamond shaped daymark.	
22192 <i>F 1182</i>	-Ko Nok.	8° 01.8' N 98° 54.4' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	79 24	7	White metal framework tower; 69.	
22193	-Entrance Range A, front.	8° 01.9' N 98° 54.0' E	Fl.R. period 3s			White beacon, diamond shaped daymark.	
22193.1	--B, rear, 000° from front.	8° 02.3' N 98° 54.0' E	Iso.W. period 3s			White beacon, diamond shaped daymark.	
22194	-Channel Range C, front.	8° 02.7' N 98° 54.4' E	Iso.W. period 3s			White beacon, diamond shaped daymark.	
22194.1	--D, rear, 018° from front.	8° 02.8' N 98° 54.5' E	Fl.R. period 3s			White beacon, diamond shaped daymark.	
22196 <i>F 1178</i>	Ko Nom Sao Noi.	8° 18.6' N 98° 31.0' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	89 27	7	White concrete tower; 7.	
22200 <i>F 1168</i>	Ko Similan Island.	8° 38.0' N 97° 38.9' E	Fl.(3)W. period 20s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 15.2s	561 171	17	White metal framework tower; 98.	
22204 <i>F 1166</i>	Ko Ra, N. point.	9° 15.8' N 98° 18.4' E	Fl.(3)W. period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4.5s	128 39	13	White brick tower; 30.	
22208 <i>F 1165</i>	Ko Luk Kham Tai.	9° 27.4' N 98° 19.6' E	Fl.W. period 8s fl. 0.5s, ec. 7.5s	253 77	15	White metal framework tower; 49.	
22212 <i>F 1164</i>	Ko Chi.	9° 28.6' N 97° 54.2' E	Fl.W. period 10s fl. 1s, ec. 9s	377 115	15	White metal framework tower; 49.	
22214 <i>F 1167</i>	Ban Thap Lamu.	8° 35.2' N 98° 13.2' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	233 71	15	White metal framework tower; 102.	
22215 <i>F 1166.8</i>	Hin Khi Nok.	8° 36.2' N 98° 13.9' E	Fl.(3)W. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	33 10	8	White metal structure on concrete base; 19.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
THAILAND-WEST COAST							
22216 <i>F 1162</i>	Ko Khom.	9° 52.6' N 98° 26.6' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	197 60	9	White brick tower; 36.	
22220 <i>F 1163</i>	Ko Phayam.	9° 43.9' N 98° 22.9' E	Fl.(2)W. period 12s fl. 1s, ec. 2s fl. 1s, ec. 8s	210 64	15	White metal framework tower; 49.	
22224 <i>F 1161</i>	Ko Son Thai.	9° 54.1' N 98° 31.0' E	Fl.(2)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 8s	108 33	10	White metal framework tower; 49.	
PAKCHAN RIVER:							
22228 <i>F 1160</i>	-Ko Phi.	9° 57.7' N 98° 35.2' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	69 21	9	White metal framework tower; 30.	Aero Radiobeacon 5.8 miles NNW. (in Burma).
22229 <i>F 1159</i>	-Ranong, Custom Pier.	9° 59.0' N 98° 35.8' E	Fl.W. period 4s fl. 1.2s, ec. 2.8s	154 47	10	White 8-sided concrete tower, orange roof; 50.	
INDONESIA (SUMATERA-NORTH COAST AND ADJACENT ISLANDS)							
22232 <i>F 1300</i>	Pulau Rondo.	6° 04.5' N 95° 06.9' E	Fl.(3)W. period 20s fl. 0.5s, ec. 3s fl. 0.5s, ec. 3s fl. 0.5s, ec. 12.5s	633 193	24	White metal framework tower; 131.	
22236 <i>F 1302</i>	Breueh.	5° 45.0' N 95° 03.4' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	524 160	20	Red stone tower, white band; 144.	Visible 083° -288° .
			FR.	433 132	18		Visible 084° -166° .
22238 <i>F 1295</i>	Pulau Bunta.	5° 33.3' N 95° 09.1' E	Fl.(4)W. period 20s	295 90	15	Metal framework tower.	
22240 <i>F 1312</i>	Teluk Sabang, Ujun Lho Me.	5° 53.2' N 95° 18.6' E	Fl.(3)W. period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9.5s	52 16	7	White iron skeleton structure; 49.	Obscured when bearing more than 132° .
22244 <i>F 1310</i>	-Pulau Klah.	5° 52.6' N 95° 18.5' E	L.Fl.W. period 30s fl. 7s, ec. 23s	79 24	15	White metal framework structure; 43.	Visible 109° -192° and in Lho Pria Laot 109° -087° .
22252 <i>F 1313</i>	-Peuninpun Signal Station.	5° 53.6' N 95° 18.8' E	FR.		12	Mast.	Radiobeacon 0.25 mile NE.
22256 <i>F 1313.5</i>	-Balohan.	5° 49.8' N 95° 20.7' E	Fl.Y. period 3s	30 9	6	Beacon.	
22258 <i>F 1314</i>	Ujung Seuke.	5° 48.5' N 95° 22.5' E	Fl.W. period 2.5s fl. 0.5s, ec. 2s	279 85	20	White tower.	
22260 <i>F 1308</i>	Le Meule, near Ujung Tapagajah.	5° 53.8' N 95° 20.0' E	Fl.W. period 5s fl. 1s, ec. 4s	95 29	16	White metal framework tower; 82.	Visible 125° -303° .
RACON							
			M(- -)				
22268 <i>F 1315</i>	Buro.	5° 41.3' N 95° 23.0' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	46 14	15	White beacon; 49.	
22272 <i>F 1317</i>	Krueng Raja Baai.	5° 35.1' N 95° 30.4' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	49 15	9	White metal framework structure; 49.	

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INDONESIA (SUMATERA-NORTH COAST AND ADJACENT ISLANDS)							
22273 F 1296	Palau Deudab, Ug Umpee.	5° 36.4' N 95° 11.3' E	Fl.W. period 4s	131 40	10	White fiberglass tower; 33.	Radar reflector.
22276 F 1316	Krueng Raya.	5° 36.8' N 95° 31.8' E	L.Fl.W. period 8s fl. 2s, ec. 6s	115 35	12	White beacon; 40.	
22280 F 1314.5	Atjeh River.	5° 35.7' N 95° 19.1' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	29 9	8	White beacon.	
22284 F 1294	Lhonga.	5° 27.1' N 95° 14.4' E	Fl.(3)G. period 10s fl. 0.6s, ec. 1.4s fl. 0.6s, ec. 1.4s fl. 0.6s, ec. 5.4s	36 11	8	Green light beacon; 36.	
22286 F 1319	Ujung Pidie.	5° 29.8' N 95° 53.3' E	Fl.(3)W. period 20s	197 60	41	White metal framework structure; 131.	
22292 F 1320.2	Sigli, approach.	5° 23.3' N 95° 58.4' E	Fl.W. period 3s	39 12	12	Beacon; 26.	Radar reflector.
22296 F 1293	Pulau Rusa.	5° 16.7' N 95° 12.0' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	390 119	11	White beacon; 33.	Radar reflector.
22300 F 1321.2	Kruenggeuken, W. breakwater, head.	5° 15.1' N 97° 02.1' E	L.Fl.G. period 10s fl. 2s, ec. 8s	26 8	6	Green framework structure; 25.	
22304 F 1321.4	-E. breakwater, head.	5° 15.1' N 97° 02.2' E	L.Fl.R. period 10s fl. 2s, ec. 8s		6	Red framework structure.	
22305 F 1321.7	-W. inner breakwater, head.	5° 14.9' N 97° 01.3' E	Fl.G. period 3s		4		
22307.5 F 1321.5	-Kuala Geukuech Range, front.	5° 14.5' N 97° 02.0' E	Q.W.	49 15	12	White beacon, white triangular topmark, point up; 39.	
22308.5 F 1321.51	--Rear, 100 meters 200° from front.	5° 14.5' N 97° 01.7' E	Oc.W. period 4s	59 18	12	White beacon, white triangular topmark, point down; 49.	
22309 F 1321.6	-Public berth.	5° 14.5' N 97° 02.2' E	Fl.Y. period 5s fl. 0.5s, ec. 4.5s	62 19	5	Tower; 59.	
22312 F 1321	Geukuch.	5° 14.5' N 97° 02.6' E	Fl.(2)W. period 10s fl. 0.5s, ec. 3s fl. 0.5s, ec. 6s	49 15	12	White beacon.	Radar reflector.
RACON			C(- • - •)				
22313 F 1321.8	-NE.	5° 14.7' N 97° 03.1' E	Fl.R. period 3s	16 5	10	Red iron framework structure; 16.	
22314 F 1321.1	SPM.	5° 15.3' N 97° 03.9' E	Fl.Y. period 15s		6	Mooring tower.	
22316 F 1323	Blang Lancang E. breakwater.	5° 13.4' N 97° 06.6' E	Fl.(3)R. period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4.5s	49 15	9	Red beacon; 26.	Radar reflector.
22320 F 1323.2	-W. breakwater.	5° 13.7' N 97° 06.3' E	Fl.(3)G. period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4.5s	49 15	10	Green beacon; 26.	Radar reflector.
22324 F 1323.4	-Inner breakwater.	5° 13.3' N 97° 06.2' E	Fl.G. period 2s fl. 0.5s, ec. 1.5s	49 15	10	Green beacon; 26.	Radar reflector.
22340 F 1322	-Range, front.	5° 13.0' N 97° 06.0' E	Iso.W. period 2s	131 40	15	White beacon, orange triangular daymark, point up, black bands; 118.	Radar reflector.

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INDONESIA (SUMATERA-NORTH COAST AND ADJACENT ISLANDS)							
22344 F 1322.1	--Rear, 157 meters 205° from front.	5° 12.9' N 97° 05.8' E	Oc.W. period 8s	148 45	18	White beacon, orange triangular daymark, point down, red bands; 141.	Radar reflector.
22352 F 1323.51	--Rear, 170 meters 295° from front.	5° 13.7' N 97° 05.2' E	Oc.W.R.G. period 4s	146 44	W. 12 R. 8 G. 8	White beacon, red bands, orange triangular daymark, point down; 144.	W. 000°-278°, R.-301°, G.-000°.
22356 F 1324	Lhokseumawe.	5° 12.4' N 97° 07.9' E	Fl.W. period 3s	72 22	8	White iron framework tower; 43.	Obscured when bearing less than 148°.
22360 F 1326	-Pier, head.	5° 10.7' N 97° 09.0' E	F.R.		4	White structure; 49.	
22364 F 1327	Tanjung Jambuair.	5° 15.0' N 97° 29.3' E	Fl.W. period 5s fl. 1.5s, ec. 3.5s	144 44	20	White framework tower, white octagonal base; 131.	
	RACON		K(- • -)		20		
22366	Platform NSO-A RACON.	5° 44.3' N 97° 50.6' E	B(- • • •)				
22367 F 1476.1	Pulau Perak.	5° 41.1' N 98° 56.3' E	Fl.(2)W. period 10s	420 128	16	White concrete tower, black bands.	
22368 F 1327.5	Idi.	4° 57.0' N 97° 46.2' E	Fl.W. period 3s	66 20	8	White iron framework structure; 66.	
22369 F 1327.8	Ujang Peureula.	4° 54.0' N 97° 53.9' E	Fl.(2)W. period 6s	39 12	11	White metal framework structure; 33.	
22372 F 1328	Ujung Peureulak.	4° 51.8' N 97° 54.7' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 6.5s	52 16	13	White metal framework mast; 46.	
			F.W.R.G.	43 13	10	Same structure.	R. (65°), G. (15°), W. (20°).
22374 F 1329	Tualang AVIATION LIGHT.	4° 43.1' N 97° 50.3' E	Oc.W. period 2s lt. 1.3s, ec. 0.7s	400 122		White radio tower, orange band; 299.	<i>Reported seen at 23M.</i>
22376 F 1330	-Kuala Langsa Range, front.	4° 34.0' N 98° 04.0' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	26 8	10	Beacon, white triangular daymark, point up.	
22380 F 1330.1	-Rear, about 1300 meters 219° 54' from front.	4° 33.0' N 98° 03.9' E	Iso.W. period 4s	59 18	12	Beacon, white triangular daymark, point down.	
22384 F 1330.5	-Entrance, N.	4° 33.0' N 98° 04.0' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s	33 10	6	Beacon, red square daymark.	
22388 F 1330.6	-Entrance S.	4° 32.5' N 98° 02.7' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	33 10	6	Beacon, green triangular daymark, point upward.	Radar reflector.
22392 F 1330.7	-Kuala Beukah.	4° 31.7' N 98° 01.0' E	Fl.(3)W. period 10s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	65 20	12	White framework tower; 49.	
22394 F 1334	Ujung Tamiang.	4° 25.3' N 98° 16.7' E	Fl.(3)W. period 20s	144 44	20	White framework structure; 131.	
22395 F 1337	Pangkalansusu.	4° 07.0' N 98° 12.3' E	Fl.Y. period 4s	23 7	4	SPECIAL Y, beacon, topmark.	
22395.1 F 1337.5	-Panjang.	4° 07.1' N 98° 12.2' E	Fl.Y. period 5s	23 7	4	SPECIAL Y, beacon, topmark.	

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INDONESIA (SUMATERA-NORTH COAST AND ADJACENT ISLANDS)							
22400 F 1352	Nipahlarangan.	3° 54.2' N 98° 40.6' E	Fl.(3)W. period 20s fl. 0.5s, ec. 3.5s fl. 0.5s, ec. 3.5s fl. 0.5s, ec. 11.5s	144 44	17	White metal framework tower; 131.	
	RACON		N(- •)		20		
22408 F 1355	-Belawan.	3° 52.3' N 98° 44.2' E	Fl.G. period 5s	66 20	15	STARBOARD (A) G, beacon.	
	-RACON		M(- -)		15		
22412 F 1355.9	-Entrance Range, front.	3° 50.1' N 98° 44.1' E	Fl.(3)W.R. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2.5s	16 5	9	White metal framework structure; 16.	R. 000°-170°, W.-215°.
22416 F 1356	--Beacon II, rear, 1463 meters 187° from front.	3° 49.3' N 98° 44.0' E	Iso.W. period 6s	56 17	12	Framework tower, white and black bands; 39.	Common rear for outer and inner ranges.
22417 F 1356.05	--E.	3° 49.5' N 98° 45.2' E	Fl.Y. period 5s	20 6	4	SPECIAL Y, beacon, topmark.	
22420 F 1356.1	-Inner Range, Beacon III, front, about 914 meters 220° from Beacon II.	3° 48.9' N 98° 43.7' E	Q.(2)W. period 3s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 1.5s	39 12	8	White tower; 18.	
22424 F 1362	-Middle Range Beacon IV, front.	3° 48.0' N 98° 43.4' E	Q.(2)W. period 4s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 2.5s	26 8	8	White framework tower; 16.	
22428 F 1362.1	--Lighted Beacon V, rear, 1280 meters 200° 30' from front.	3° 47.3' N 98° 43.1' E	Iso.W. period 6s	49 15	7	White framework tower; 39.	Visible 037°-007°.
22429 F 1362.5	-Kuala Deli, entrance.	3° 47.6' N 98° 43.0' E	Fl.G. period 3s	29 9	5	STARBOARD (A) G, beacon, topmark.	
22429.5 F 1362.2	--E.	3° 47.5' N 98° 43.3' E	Fl.Y. period 4s	20 6	4	SPECIAL Y, beacon, topmark.	
22430 F 1367	--On shore.	3° 47.1' N 98° 42.7' E	Fl.W. period 4s	42 13	5	White beacon.	
22431 F 1362.3	--S.	3° 46.9' N 98° 42.8' E	Fl.R. period 2s	29 9	5	PORT (A) R, beacon, topmark.	
22432 F 1364	-Gabion.	3° 47.9' N 98° 43.0' E	Fl.W. period 3s	49 15	8	Tower; 39.	
22436 F 1370	-Belawan, Ocean Quay Range, front.	3° 47.0' N 98° 42.0' E	Fl.W. period 3s fl. 1s, ec. 2s	62 19	6	White framework structure; 62.	2 Fl.R. on end of jetty 0.5 mile E.
22440 F 1370.1	--Rear, 350 meters 238° from front.	3° 47.2' N 98° 41.9' E	Oc.W. period 2s fl. 1.5s, ec. 0.5s	89 27	2	White framework structure; 98.	F.R. close E.
22441 F 1371	-Pertamina, jetty, E. head.	3° 47.5' N 98° 42.5' E	Q.R.	7 2	4	White pile.	
22442 F 1371.2	--W. head.	3° 47.5' N 98° 42.5' E	Fl.R. period 5s	7 2	4	White pile.	
22444 F 1372	Sei Nonang.	3° 47.5' N 98° 40.8' E	Fl.G. period 3s	42 13	6	Green beacon; 33.	
SUNGAI ASAHAN:							
22448 F 1373	-Nunang.	3° 47.2' N 98° 40.9' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	36 11	5	Red beacon; 26.	
22449 F 1374.5	Tanjung Sibungabunga.	3° 39.2' N 98° 58.9' E	Fl.W. period 3s	69 21	10	White beacon.	

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INDONESIA (SUMATERA-NORTH COAST AND ADJACENT ISLANDS)							
22450 <i>F 1374</i>	Bunga Banks.	3° 46.6' N 99° 04.3' E	Fl.(2)W. period 5s	56 17	12	ISOLATED DANGER BRB, topmark; 33.	
22452 <i>F 1375</i>	Pulu Berhala.	3° 46.6' N 99° 30.0' E	Fl.(4)W. period 19s	630 192	30	White metal framework tower; 39.	
22456 <i>F 1375.5</i>	Kuala Bedagai.	3° 30.6' N 99° 13.7' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	49 15	10	White metal framework structure; 43.	
22458 <i>F 1376.5</i>	Pangkalan Dodek.	3° 24.3' N 99° 19.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	59 18	6	White beacon; 49.	
INDONESIA (SUMATERA-EAST COAST AND ADJACENT ISLANDS)							
22460 <i>F 1378</i>	Palau Pandang.	3° 25.6' N 99° 45.5' E	Fl.W. period 5s	206 63	15	White metal framework tower; 39.	
22462 <i>F 1378.5</i>	Pulau Salahnama.	3° 20.4' N 99° 43.4' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	397 121	12	White beacon; 98.	
22463 <i>F 1378.7</i>	Tg Tiram Range, front.	3° 14.4' N 99° 35.5' E	Fl.W. period 3s	36 11	12	White beacon, white triangular daymark, point up.	
22463.5 <i>F 1378.71</i>	-Rear, 320 meters 164° from front.	3° 14.2' N 99° 35.6' E	Fl.(3)W. period 10s	49 15	12	White beacon, white triangular daymark, point down	
22464 <i>F 1376</i>	Kaula Tanjung Approach.	3° 23.4' N 99° 29.4' E	Fl.R. period 6s fl. 0.6s, ec. 5.4s	33 10	5	PORT (A) R, beacon, topmark; 16.	F.R. 3 miles SW. Radar reflector.
22468 <i>F 1379</i>	Tanjung Tiram.	3° 14.2' N 99° 35.0' E	Fl.R. period 4s	36 11	5	Beacon, red square daymark.	
22470 <i>F 1377</i>	Kuala Tanjung.	3° 22.4' N 99° 28.1' E	Fl.(3)W. period 9s	39 12	12		
	RACON		D(- • •)				
22471 <i>F 1379.2</i>	Tg. Tambuntulang.	3° 10.8' N 99° 46.1' E	Fl.(2)W. period 4s	46 14	10	White beacon.	
22476 <i>F 1380</i>	Bagan Asahan.	3° 00.9' N 99° 51.8' E	Fl.W. period 5s	62 19	12	White metal framework tower; 46.	Obscured by trees when bearing less than 180°.
22480 <i>F 1382</i>	-Outer bar.	3° 02.9' N 99° 52.0' E	Fl.R. period 4s fl. 1s, ec. 3s	58 18	10	Red beacon; 49.	
22481 <i>F 1379.5</i>	-Entrance Range, front.	3° 01.5' N 99° 51.9' E	Q.(2)W. period 4s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 2.5s	43 13	12	White beacon, triangular daymark, point up; 29.	
22481.1 <i>F 1379.51</i>	--Rear, 0.84 mile 180° from front.	3° 00.9' N 99° 51.9' E	Iso.W. period 6s	52 16	12	White beacon, triangular daymark, point down; 39.	
22482 <i>F 1383</i>	-Range, front.	3° 03.6' N 99° 51.8' E	Q.(2)W. period 4s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 2.5s	43 13	12	Triangular daymark, point up; 29.	
22482.1 <i>F 1383.1</i>	--Rear, 0.4 mile 356° 41' from front.	3° 03.3' N 99° 51.6' E	Iso.W. period 6s	52 16	12	Triangular daymark, point down; 39.	
22484 <i>F 1386</i>	Pulau Jemur.	2° 52.8' N 100° 34.0' E	Fl.W. period 5s	151 46	18	White iron framework structure; 79.	
22484.5 <i>F 1388</i>	Pulau Batu Mandi.	2° 52.3' N 100° 41.1' E	Fl.(2)W. period 10s	141 43	20	White tower; 12.	

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INDONESIA (SUMATERA-EAST COAST AND ADJACENT ISLANDS)							
22485 <i>F 1383.8</i>	Tanjung Siapi-api.	2° 56.5' N 100° 01.8' E	Fl.W. period 3s	46 14	12	White beacon.	
22486 <i>F 1390</i>	Tg. Leiding.	2° 45.5' N 99° 59.0' E	Fl.(2)W. period 8s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	49 15	12	White beacon; 49.	
22487 <i>F 1384.2</i>	Tanjung Datu.	2° 41.5' N 100° 05.9' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	46 14	10	White beacon; 33.	
22488 <i>F 1385</i>	Tanjung Lumbalumba.	2° 31.4' N 100° 08.6' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	78 24	10	White beacon; 66.	
22489 <i>F 1385.5</i>	Pulau Kantan.	2° 30.7' N 100° 09.7' E	Fl.G. period 4s	66 20	12	Green beacon.	
22492 <i>F 1395</i>	Tanjung Medang.	2° 07.4' N 101° 39.3' E	Fl.W. period 10s	171 52	19	White metal framework tower; 164.	Radar reflector.
22496 <i>F 1395.5</i>	Morong.	1° 55.2' N 101° 46.4' E	Fl.(3)W. period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 10.5s	82 25	16	Beacon; 82.	
22500 <i>F 1396</i>	Raleigh Shoal.	2° 06.8' N 101° 53.0' E	Fl.(2)W. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	53 16	13	ISOLATED DANGER BRB, beacon, topmark; 43.	Radar reflector.
	RACON		O(- - -)				
22504	<i>Amelia Bank Buoy.</i>	2° 13.0' N 105° 18.0' E	L.Fl.R. period 12s			PORT (A) R, can.	
22508 <i>F 1397</i>	Rob Roy Bank.	1° 54.4' N 102° 03.1' E	Fl.(2)W. period 10s	52 16	13	ISOLATED DANGER BRB, beacon, topmark.	Radar reflector.
	RACON		N(- •)				
22511.1 <i>F 1401.05</i>	Dumai.	1° 41.4' N 101° 25.6' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	75 23	12	White beacon; 66.	
22511.2 <i>F 1401.052</i>	-E. pier.	1° 41.5' N 101° 25.8' E	Fl.Y. period 4s fl. 0.5s, ec. 3.5s	26 8	5	Yellow pipe; 16.	
22511.3 <i>F 1401.054</i>	-W. pier.	1° 41.7' N 101° 25.6' E	Fl.Y. period 5s fl. 0.5s, ec. 4.5s	26 8	5	Yellow pipe; 16.	
22512 <i>F 1402</i>	Tanjong Lebang Range F, common rear.	1° 41.3' N 101° 47.8' E	Iso.W. period 2s	52 16	12	White metal framework tower; 79.	
22516 <i>F 1402.1</i>	-Front E, about 300 meters 316° from common rear.	1° 41.4' N 101° 48.1' E	Q.W.	56 17	12	White beacon; 45.	Visible 311° 48' -320° 12' .
22520 <i>F 1401.9</i>	-Front G, about 1425 meters 088° from common rear.	1° 41.5' N 101° 47.9' E	Q.W.	52 16	12	White beacon; 42.	Visible 083° 48' -092° 12' .
22523 <i>F 1402.5</i>	Selat Rupert A.	1° 39.5' N 101° 50.4' E	Fl.(3)W. period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 10.5s	52 16	12	White metal framework tower; 42.	
	RACON		D(- • •)				
22523.1 <i>F 1402.6</i>	Selat Rupert.	1° 39.3' N 101° 38.3' E	L.Fl.W. period 5s fl. 2s, ec. 3s	141 43	12	White beacon.	

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INDONESIA (SUMATERA-EAST COAST AND ADJACENT ISLANDS)							
22523.3 F 1402.62	-W. pier.	1° 39.7' N 101° 38.2' E	Fl.Y. period 6s fl. 1s, ec. 5s	23 7	6	Yellow pipe beacon.	
22523.5 F 1402.64	-E. pier.	1° 39.7' N 101° 38.4' E	Fl.Y. period 4s fl. 1s, ec. 3s	23 7	6	Yellow pipe beacon.	
22524 F 1403	Selat Rupert D.	1° 37.0' N 101° 53.2' E	Iso.W. period 3s	46 14	12	White metal framework tower; 49.	
22528 F 1404	Tanjung Bakau Range A, common front.	1° 32.0' N 101° 55.0' E	Q.W.	49 15	9	White metal framework tower; 49.	
22532 F 1403.9	-Rear B, about 1000 meters 164° from common front.	1° 31.7' N 101° 55.1' E	Iso.W. period 4s	95 29	12	White metal framework tower; 92.	
22536 F 1404.1	-Rear C, about 760 meters 271° from common front.	1° 32.0' N 101° 54.5' E	Iso.W. period 4s	95 29	12	White metal framework tower; 92.	Visible 265°-274° 12'.
22542 F 1406	Tg. Jati.	1° 36.0' N 101° 59.9' E	L.Fl. period 8s fl. 2s, ec. 6s	52 16	13	White beacon.	
22544 F 1407	Bengkalis.	1° 28.1' N 102° 06.4' E	Fl.W. period 10s	104 32	16	Tower; 98.	
22548 F 1408	-Tg. Balai, near Tanjung Labu.	1° 23.0' N 102° 09.0' E	Fl.W. period 7s	39 12	7	White framework structure.	
SUNGAI PAKNING:							
22552 F 1411	-Oil wharf No. 1, N. head.	1° 20.7' N 102° 09.5' E	F.R.	39 12	8	Post; 7.	F.G. on N. and S. end of pier No. 2.
22556 F 1413	Sungai Siak Range, front.	1° 12.6' N 102° 09.8' E	Q.W.	20 6	8	Framework tower, white triangular topmark, point up.	
22560 F 1413.1	-Rear, 1 mile 196° 30' from front.	1° 11.7' N 102° 09.5' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	46 14	8	White framework structure, white triangular daymark, point down; 42.	
22564 F 1411.9	Selat Lalang Range, front, 180° to rear.	1° 13.1' N 102° 11.6' E	Iso.W. period 2s	49 15	12	Beacon, white triangular daymark, point up; 49.	
22568 F 1412	-Common rear.	1° 13.0' N 102° 11.6' E	Iso.W. period 2s	59 18	12	Beacon, white triangular daymark, point down; 59.	
22572 F 1412.1	Selat Lalang Range, front 270° to rear.	1° 13.0' N 102° 11.8' E	Iso.W. period 2s	49 15	12	Beacon, white triangular daymark, point up; 49.	Visible 210°-270°. F.Y. light close E.
22573 F 1412.6	Selat Panjang, S. of Tanjung Layang.	1° 11.2' N 102° 12.9' E	L.Fl.W. period 15s	43 13	11	SPECIAL Y, beacon, topmark.	
22578 F 1398	Gosong Clark, SE.	1° 42.6' N 102° 24.2' E	Fl.W. period 3s	62 19	12	White beacon.	
RACON			K(- • -)				
22580 F 1413.5	Tanjung Parit.	1° 31.5' N 102° 26.1' E	Fl.W. period 5s	138 42	18	White metal framework tower; 131.	
22580.7 F 1413.7	Tg Sekodi.	1° 15.8' N 102° 30.3' E	Fl.W. period 7.5s fl. 0.5s, ec. 7s	102 31	15	White beacon.	
22581 F 1674.05	-Pulau Karimun Kecil.	1° 10.0' N 103° 23.3' E	Fl.W. period 5s	59 18	12	White beacon; 49.	
22584 F 1674	Pulau Iyu Kecil (The Brothers).	1° 11.4' N 103° 21.1' E	Fl.(3)W. period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9.5s	135 41	36	White iron framework tower; 42.	Visible 055°-325°. Obscured by Pulau Iyu Besar.

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INDONESIA (SUMATERA-EAST COAST AND ADJACENT ISLANDS)							
22584.2 F 1674.1	Karimun Besar.	1° 08.7' N 103° 19.1' E	Q.(9)W. period 15s	20 6	4	W. CARDINAL YBY, beacon, topmark.	
22584.4 F 1674.4	-S.	1° 08.1' N 103° 19.2' E	Fl.(2)R. period 10s	20 6	4	PORT (A) R, beacon, topmark.	
22584.6 F 1674.2	-Assan.	1° 08.1' N 103° 18.8' E	Fl.(2)G. period 10s	20 6	4	STARBOARD (A) G, beacon, topmark.	
22584.8 F 1674.3	-Pengunju.	1° 06.8' N 103° 19.0' E	Q.(2)R. period 5s	20 6	4	PORT (A) R, beacon, topmark.	
22585 F 1417.4	-Lubukkankong, N.	1° 00.2' N 103° 21.2' E	Fl.W. period 4s	49 15	12	White beacon, 29.	Radar reflector.
22585.1 F 1417.42	--W.	1° 00.2' N 103° 21.0' E	Fl.R. period 4s	49 15	12	PORT (A) R, beacon, topmark, 29.	Radar reflector.
22585.2 F 1417.43	--E.	1° 00.0' N 103° 21.2' E	Fl.G. period 5s	49 15	12	STARBOARD (A) G, beacon, topmark, 29.	Radar reflector.
22586 F 1674.5	Tanjung Piai.	1° 15.5' N 103° 30.6' E	Fl.W. period 3s	49 15	16	White round concrete tower on pile.	Radar reflector.
	RACON		M(- -)		10		
22587 F 1417.6	Tanjung Sebatak, SE.	1° 02.1' N 103° 28.0' E	Fl.(2)W. period 5s	39 12	12	ISOLATED DANGER BRB, beacon, topmark.	
22588 F 1417.5	Tanjung Rambut.	0° 59.7' N 103° 26.7' E	Fl.(3)W. period 20s fl. 0.5s, ec. 3s fl. 0.5s, ec. 3s fl. 0.5s, ec. 12.5s	135 41	18	White framework tower; 132.	
22590 F 1417	Tanjung Menggung.	0° 48.4' N 103° 08.3' E	Fl.W. period 5s	52 16	10	White metal framework structure; 49.	Radar reflector.
22592 F 1694.6	Jangkat.	0° 58.0' N 103° 42.5' E	Fl.W. period 5s fl. 0.7s, ec. 4.3s	115 35	18	White metal tower; 121.	Radar reflector.
SELAT DURIAN:							
22596 F 1418	-Melvill Reef, W. side.	0° 51.9' N 103° 36.5' E	Fl.W. period 5s	36 11	10	White metal framework tower; 26.	
22600 F 1420	-Middleburg Rif, N. end.	0° 51.0' N 103° 34.0' E	L.Fl.R. period 8s fl. 2s, ec. 6s	36 11	8	White iron framework tower; 26.	
22602 F 1417.2	Tg. Lubuh.	0° 39.0' N 103° 24.1' E	Fl.W. period 8s	115 35	12	White beacon.	
22608 F 1422	-Pulau Pelangkat, on reef.	0° 45.0' N 103° 35.0' E	L.Fl.W. period 8s fl. 2s, ec. 6s	43 13	10	White metal framework tower; 26.	
	-RACON		O(- - -)				
22610 F 1426	-Rukan Utara (North Brother).	0° 37.5' N 103° 45.5' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	98 30	12	White metal framework tower; 43.	Obscured 342°-352° by Rukan Selatan and Rukan Tengah.
	-RACON		K(- • -)				
22612 F 1428	-Rukan Selatan.	0° 32.5' N 103° 46.3' E	Fl.W. period 5s	230 70	21	White skeleton iron tower; 72.	
22616 F 1429	Tanjung Datuk.	0° 00.5' N 103° 48.3' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	82 25	12	White beacon; 82.	

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22617 F 1430	Buluh.	1° 00.9' N 103° 55.8' E	F.R.				
22618 F 1772.1	Batu Besar.	1° 09.7' N 104° 08.8' E	Fl.W. period 5s fl. 1s, ec. 4s	30 9	5		
22619 F 1772.15	-No. 3.	1° 09.7' N 104° 09.0' E	Fl.G. period 4s fl. 1s, ec. 3s	30 9	5	STARBOARD (A) G, beacon, topmark.	
22619.5 F 1772.2	-No. 4.	1° 09.7' N 104° 09.1' E	Fl.R. period 5s fl. 1s, ec. 4s	16 5	9	PORT (A) R, beacon, topmark.	
SELAT RIAU:							
22620 F 1772	-Karang Galang.	1° 09.6' N 104° 11.5' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	33 10	10	White metal beacon, black bands; 33.	
			-RACON	Q(- - -)			
22620.1 F 1771.6	Teluk Sebong.	1° 09.9' N 104° 18.3' E	Fl.G. period 3s	26 8	10	Green beacon, green triangular daymark, point up.	
22620.5 F 1772.3	-Kabil Range, front.	1° 04.8' N 104° 08.4' E	Iso.W. period 2s	46 14	16	White beacon, triangular daymark, point up.	Fl.(3)R. 6s 4m 5M on dolphin 750 meters S.
22620.6 F 1772.31	--Rear, 0.65 mile 216° 54' from front.	1° 04.3' N 104° 08.0' E	Iso.W. period 4s	98 30	16	White beacon, triangular daymark, point down.	
22621 F 1772.4	-South Range, front.	1° 03.2' N 104° 08.5' E	Q.W.	46 14	14	White beacon, triangular daymark, point up.	
22621.5 F 1772.41	--Rear, 325 meters 197° 53' from front.	1° 03.0' N 104° 08.4' E	Oc.W. period 3s lt. 2s, ec. 1s	75 23	15	White beacon, triangular daymark, point down.	
-Tanjung Uban:							
22624 F 1773	--Northern pier, head.	1° 05.0' N 104° 13.0' E	F.R.				Private light.
22628	--Southern pier, head.	1° 04.0' N 104° 13.0' E	F.R.				Private light.
22632 F 1774	-Pulau Tanjungsau, E. point.	1° 03.0' N 104° 11.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	112 34	7	White iron framework; 36.	Visible 151° -031° .
22636 F 1775	-Pulau Buan.	1° 02.8' N 104° 13.3' E	Fl.W. period 2s fl., ec. 1.5s	39 12	8	White iron framework structure; 33.	
22640 F 1776	-Pulau Loban.	0° 58.8' N 104° 13.8' E	Iso.W.R.G. period 8s	62 19	W. 9 R. 6 G. 5	Black metal framework structure; 49.	W. 290° -046°, G.-089°, R.- 140°, W.-176° .
			-RACON	M(- -)			
22641 F 1778	-Gosong Tula.	0° 57.5' N 104° 15.2' E	Fl.R. period 6s fl. 0.6s, ec. 5.4s	30 9	6	PORT (A) R, beacon, topmark.	
22642 F 1787	-Pulau Terkulai, SE.	0° 56.1' N 104° 21.2' E	Fl.R. period 6s fl. 0.6s, ec. 5.4s	30 9	6	PORT (A) R, beacon, topmark.	
22643 F 1788	-Karang Soreh, NW.	0° 54.5' N 104° 21.2' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	30 9	6	STARBOARD (A) G, beacon, topmark.	

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INDONESIA (SUMATERA-EAST COAST AND ADJACENT ISLANDS)							
22644 <i>F 1780</i>	--Pulau Tunjuk, W. side front.	0° 57.0' N 104° 12.0' E	Iso.W. period 2s	52 16	11	White triangular daymark, point up.	Visible 175° -185° .
22648 <i>F 1780.1</i>	--Rear, 387 meters 180° from front.	0° 56.4' N 104° 12.4' E	Oc.W. period 3s	75 23	12	White triangular daymark, point down; 66.	Intensified 175° -185° . Lead through N. entrance to Riouw Strait. Partially obscured by trees 188° - 267° .
22652 <i>F 1786</i>	-Pulau Terkulai, W. end.	0° 57.1' N 104° 20.6' E	Iso.W. period 4s	75 23	14	White metal framework tower; 66.	Visible 290° -109° 30' .
22656 <i>F 1790</i>	-Batu Hitam.	0° 54.5' N 104° 26.4' E	Iso.W.R. period 2s		13	White beacon; 33.	
22660 <i>F 1798</i>	-Pulau Pangkil.	0° 48.9' N 104° 21.1' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	62 19	12	Red metal framework building; 49.	Radar reflector.
	-RACON		D(- • •)				
22664 <i>F 1796</i>	--Range, front.	0° 56.0' N 104° 26.0' E	Fl.W. period 3s	23 7	6	White metal skeleton tower, white triangle daymark; 16.	
22668 <i>F 1796.1</i>	--Rear, 323 meters 004° from front.	0° 56.5' N 104° 26.4' E	L.Fl.W. period 5s fl. 2s, ec. 3s	36 11	4	White metal skeleton tower, white triangle daymark, point down; 23.	
22672 <i>F 1806</i>	-Pulau Mantang.	0° 44.6' N 104° 30.9' E	Fl.W. period 3s	203 62	20	White framework structure; 65.	Visible 269° -162° , except where obscured by islands.
22676 <i>F 1802</i>	-Pulau Karas Kecil.	0° 44.1' N 104° 22.3' E	Fl.W. period 5s	141 43	18	White iron framework tower; 36.	Visible 123° -018° .
22680 <i>F 1807</i>	-Maga Range, Front.	0° 47.4' N 104° 35.4' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	39 12	10	Metal framework structure, triangular daymark, point up; 26.	
22684 <i>F 1807.1</i>	--Rear, 740 meters 219° from front.	0° 47.0' N 104° 35.2' E	Fl.(2)R. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	46 14	10	Metal framework structure, triangular daymark, point down; 33.	
22692 <i>F 1807.5</i>	Pulau Kambat.	0° 48.5' N 104° 40.2' E	Fl.W. period 3s	16 5	8	Wooden framework structure; 19.	
22694 <i>F 1809</i>	Merapas.	0° 56.1' N 104° 55.3' E	Fl.(3)W. period 5s	397 121	22	White metal framework structure; 131.	
22695 <i>F 1808</i>	Karang Heleputan.	0° 37.3' N 105° 08.5' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	56 17	12	White beacon; 33.	

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Section 14

Sumatera and Jawa

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDONESIA (SUMATERA-EAST COAST AND ADJACENT ISLANDS)							
22696 <i>F 1438</i>	Pulau Kentar.	0° 02.0' N 104° 46.8' E	L.Fl.(2)W. period 10s fl. 2s, ec. 2s fl. 2s, ec. 4s	400 122	26	White iron frame structure; 105.	Visible 121° -001° , except where obscured by islands.
22700 <i>F 1440</i>	Senayang.	0° 02.5' N 104° 39.0' E	Fl.Y. period 3s fl. 1s, ec. 2s	46 14	10	Mast; 13.	
22704 <i>F 1440.2</i>	-NW. side.	0° 03.0' N 104° 38.5' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	57 17	10	Mast; 19.	
22706 <i>K 0953</i>	Pulau Saya.	0° 46.8' S 104° 56.1' E	Fl.W. period 5s	42 13	11	White beacon.	
22708 <i>K 0954</i>	Pulau Lingga.	0° 18.2' S 105° 00.0' E	Fl.W. period 19s fl. 1s, ec. 18s	184 56	20	White iron framework tower; 33.	Visible 034° -064° , 175° -009° .
22709 <i>K 0956</i>	Daik.	0° 13.6' S 104° 37.9' E	Fl.W. period 3s	39 12	11		
22710 <i>K 0957</i>	Pulau Penuba.	0° 19.5' S 104° 28.0' E	Fl.W. period 3s	43 13	11		
22712 <i>K 0958</i>	Dabo.	0° 30.4' S 104° 34.2' E	Fl.W. period 3s	39 12	11		
22716 <i>K 0981.5</i>	Indragiri River, Tembilihan.	0° 20.0' S 103° 09.3' E	L.Fl.W. period 7s	33 10	7	Beacon; 33.	
22720 <i>K 0981</i>	Tanjung Bakau.	0° 20.0' S 103° 47.5' E	Fl.(2)W. period 10s	49 15	12	White beacon; 49.	
22722 <i>K 0980.4</i>	Kuala Enok.	0° 34.1' S 103° 30.0' E	Fl.W. period 5s	44 13	12	White beacon; 33.	
22722.2 <i>K 0980.5</i>	-W. beacon.	0° 33.5' S 103° 28.0' E	Fl.R. period 6s	44 13	12	Red beacon.	
22724 <i>K 0980</i>	Pulau Muci.	0° 32.5' S 104° 01.8' E	F.W.	220 67	21	White framework tower; 70.	Visible 284° -192° .
	RACON		M(- -) period 20s		15		(3 & 10cm) Azimuth coverage 110° -010° .
22726 <i>K 0975</i>	Selat Berhala.	1° 01.5' S 104° 21.5' E	Fl.(3)W. period 14s	138 42	18	White metal framework structure; 131.	
22728 <i>K 0976</i>	Berhala.	0° 52.2' S 104° 24.1' E	L.Fl.W. period 15s fl. 5s, ec. 10s	82 25	12	White iron skeleton tower; 69.	Visible 237° -147° .
22732 <i>K 0968</i>	Muara Sabak.	1° 08.0' S 103° 51.0' E	F.R.	11 3		Wooden pile; 8.	F.R. lights are shown at Simpong Toea and Kampong Baroe.
JAMBI RIVER:							
-S. Niur:							
22736	--Outer Lighted Buoy.	0° 56.0' S 103° 53.0' E	L.Fl.W. period 12s fl. 5s, ec. 7s			Bouy, red and white stripes.	

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INDONESIA (SUMATERA-EAST COAST AND ADJACENT ISLANDS)							
22744 K 0973	Kuala Niur Range, front.	1° 02.0' S 103° 49.0' E	Fl.W. period 6s fl. 1s, ec. 5s	36 11	11		
22748 K 0973.1	--Rear, about 2.8 Kilometers 167° 30' from front.	1° 03.0' S 103° 49.4' E	Fl.W. period 6s	105 32	14		
22752 K 0931	Tandjung Kampeh.	2° 11.0' S 104° 54.0' E	Fl.W. period 5s	52 16	10	White beacon.	
AIR MUSI:							
22756 K 0932	-Entrance Range, No. 3, front.	2° 14.6' S 104° 55.1' E	Fl.W. period 2s	29 9	7	White iron beacon; 16.	Tide gauge. Radar reflector.
22760 K 0932.1	--Rear, No. 4, 1450 meters 214° 30' from front.	2° 15.2' S 104° 54.7' E	Oc.W. period 4s	42 13	8	White iron beacon, red band; 30.	Radar reflector.
22764 K 0934	-Inner Range, No. 2, front.	2° 13.1' S 104° 55.8' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	29 9	8	White post, triangular daymark, point up, on pile structure; 19.	Radar reflector.
22768 K 0934.1	--Rear, No. 1, 1150 meters 005° 30' from front.	2° 12.5' S 104° 55.9' E	L.Fl.W. period 5s	49 15	8	White post, triangular daymark, point down, on pile structure; 52.	Tide gauge.
--RACON			M(- -)				
22770 K 0936	-Tanjung Buyut.	2° 19.3' S 104° 54.9' E	2 F.R. (vert.)	108 33	6	Radio mast; 98.	
22772 K 0938	-Range, front.	2° 23.0' S 104° 54.0' E	Iso.W. period 2s			Beacon; 33.	
22776 K 0938.1	--Rear, 400 meters 194° 30' from front.	2° 12.8' S 104° 54.3' E	Fl.W. period 2.5s fl. 1s, ec. 1.5s			Beacon; 49.	
22780 K 0938.4	-Parit Range, front.	2° 26.2' S 104° 56.3' E	Fl.W. period 3s fl. 1s, ec. 2s	36 11	8	White beacon; 33.	
22784 K 0938.41	--Rear, 325 meters 154° from front.	2° 26.4' S 104° 56.4' E	Oc.W. period 3s	55 17	10	White beacon, triangular daymark, point down; 49.	Visible 151° -157°.
22788 K 0939	-NE. of Kramat.	2° 31.2' S 104° 56.4' E	Fl.R. period 4s	46 14	6	Red and white tower, red square daymark; 33.	
22792 K 0939.2	-Singris Island.	2° 34.3' S 104° 56.7' E	Fl.R. period 5s	33 10	7	PORT (A) R, beacon, topmark; 33.	
22796 K 0939.6	-Sedumara.	2° 36.4' S 104° 57.4' E	L.Fl.R. period 6s fl. 2s, ec. 4s		10	PORT (A) R, beacon, topmark; 33.	
22800 K 0939.64	-Pegadjahan.	2° 37.0' S 104° 56.5' E	L.Fl.W. period 7s			White beacon; 33.	
22804 K 0939.7	-Ayam Island.	2° 39.9' S 104° 56.6' E	Fl.G. period 3s			STARBOARD (A) G, beacon; 56.	
22808 K 0939.8	-Upang.	2° 42.7' S 104° 57.4' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	39 12	7	White beacon, red square daymark; 33.	
22812 K 0940	-E. bank S. of Vpang.	2° 45.7' S 104° 57.3' E	Fl.R. period 2s	10 3	6	White framework tower.	
22816 K 0940.4	--W. bank.	2° 46.0' S 104° 56.6' E	Fl.W. period 5s		8	White triangular daymark.	
22820 K 0941	-N. of Selat Jaran.	2° 47.6' S 104° 56.2' E	F.W.	26 8	8	White framework tower.	

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INDONESIA (SUMATERA-EAST COAST AND ADJACENT ISLANDS)							
22824 K 0941.4	-Jaran Range, front.	2° 48.8' S 104° 54.6' E	Fl.W. period 3s	33 10	6	White beacon, white triangular daymark, point up; 33.	
22828 K 0941.41	--Rear, 475 meters 218° 21' from front.	2° 49.0' S 104° 54.5' E	Fl.W. period 4s	52 16	8	White beacon, triangular daymark, point down; 49.	
22832 K 0942	-Burung.	2° 51.5' S 104° 53.7' E	L.Fl.G. period 8s fl. 3s, ec. 5s	33 10	6	STARBOARD (A) G, beacon, topmark; 33.	
22836 K 0943	-N. of Ayer Kumbang.	2° 54.7' S 104° 54.1' E	Fl.R. period 5s	46 14	8	White metal framework tower, concrete base; 26.	
22840 K 0943.2	-Ayer Kumbang.	2° 55.3' S 104° 54.1' E	Fl.R. period 5s	46 14	6	White metal framework tower, concrete base; 35.	
22844 K 0943.4	-N. of Palau Banjar.	2° 56.9' S 104° 52.2' E	L.Fl.W. period 5s fl. 2s, ec. 3s	52 16	6	Beacon.	
22848 K 0945	-Mariana, No. 3.	2° 57.0' S 104° 53.2' E	L.Fl.W. period 8s	46 14	8	White framework tower, concrete base; 36.	
22852 K 0947	-W. bank, No. 2.	2° 58.4' S 104° 51.1' E	Iso.W. period 6s	46 14	9	White framework tower; 36.	Notice board.

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INDONESIA (BANGKA)							
22856 K 1000	Tanjung Ular.	1° 57.6' S 105° 07.6' E	Fl.W. period 19.5s	66 20	19	White metal framework structure.	
22860 K 1001	Frederick Hendrik Rocks, entrance to Selat Banka.	1° 58.0' S 104° 57.2' E	Fl.(2)W. period 5s	46 14	8	ISOLATED DANGER BRB, beacon.	<i>Temporarily destroyed (2009).</i>
22862 K 1001.5	Ujung Batakarang, Sumatera.	1° 59.3' S 104° 42.7' E	Fl.W. period 5s	69 21	13	Beacon.	
22864 K 0998	Tg. Kelian.	2° 05.1' S 105° 07.9' E	Fl.W. period 5s	125 38	20	Stone tower, upper part red, lower part white; 164.	Visible from shore (Tg. Puni)-160°.
22868 K 0996	Muntok.	2° 04.5' S 105° 09.5' E	Fl.W. period 3s	105 32	20		
22872 K 0993	Tg. Selokan.	2° 24.0' S 105° 37.0' E	Fl.(3)G. period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9.5s	33 10	6	Green beacon.	
22876 K 0992	Pulau Pelapasan.	2° 23.3' S 105° 45.0' E	Fl.(3)W. period 30s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 19.5s	217 66	21	White metal tower; 115.	Partially obscured eastward by other Nanka Islands.
	RACON		NK(- • • • -) period 120s		16		Azimuth coverage 335° - 120°.
22878 K 0991.3	Tanjung Bedawu.	2° 35.5' S 105° 53.8' E	Fl.(2)W. period 15s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 9.5s	72 22	14		
22880 K 0994	Karang Brom-Brom.	2° 12.2' S 105° 20.0' E	Fl.R. period 5s	49 15	7	Red beacon; 33.	
22884 K 0991	Tanjung Tapa.	2° 41.0' S 105° 47.0' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	52 16	6	Green beacon, green cone topmark.	

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INDONESIA (BANGKA)							
22896 K 0990	Tanjung Lelari.	2° 49.0' S 105° 57.0' E	Fl.R. period 10s	43 13	12	Red tower.	
22904 K 0988	Pulau Besar.	2° 52.7' S 106° 08.5' E	Fl.(2)W. period 20s fl. 0.3s, ec. 4.7s fl. 0.3s, ec. 14.7s	200 61	19	White octagonal framework tower, brown top, white cupola; 187.	Obscured when bearing more than 107° by Tanjung Lelari.
22908 K 0984	Toboali.	3° 00.9' S 106° 26.8' E	Fl.W. period 5s	105 32	16	White tower.	F.R. on radio mast 4 miles ENE.
22912 K 0985	Melvill Bank.	3° 02.4' S 106° 15.2' E	Fl.(3)G. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	49 15	7	STARBOARD (A) G, beacon, topmark; 39.	Radar reflector.
22914 K 0986	Eastern Bank.	3° 00.5' S 106° 18.6' E	Fl.R. period 5s	49 15	10	PORT (A) R, beacon, topmark; 33.	Radar reflector.
22916 K 0983	-Pulau Maspari (Lucipara).	3° 13.2' S 106° 13.2' E	Fl.W. period 5s	131 40	18	White metal framework structure; 157.	
22924 K 0982	Dapur.	3° 08.2' S 106° 30.8' E	Fl.W. period 10s	135 41	18	White metal framework structure; 46.	
	RACON		D(- • •)				
22926 K 0981.9	Tanjung Baginda.	3° 05.1' S 106° 44.3' E	Fl.(2)W. period 15s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 9.5s	75 23	14		
22928 K 1011	Karang Perlang.	2° 26.9' S 106° 28.7' E	Fl.W. period 5s	44 13	12	White beacon.	
22932 K 1012	Tanjung Berikat.	2° 34.3' S 106° 50.8' E	Fl.(3)W. period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9.5s	151 46	15	White metal tower; 98.	Visible 090° -000° .
22933 K 1012.5	Berikat.	2° 28.0' S 106° 58.6' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	49 15	13	White beacon.	
22934 K 1010.7	Pulou Beboear.	2° 17.3' S 106° 26.7' E	Fl.(3)W. period 10s	141 43	12	Beacon.	
22936 K 1010.5	Karang Teali.	2° 13.9' S 106° 17.2' E	Fl.G. period 4s	49 15	6	STARBOARD (A) G, beacon, topmark; 33.	
22940 K 1009	Tg. Bunga.	2° 08.0' S 106° 11.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	98 30	8	White beacon; 65.	
22944 K 1010	Karang Gosong.	2° 08.3' S 106° 13.4' E	Fl.G. period 5s	43 13	6	STARBOARD (A) G, beacon, topmark.	
22946 K 1008	Pangkal Pinang Range, front.	2° 05.7' S 106° 10.1' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	26 8	5	White triangular daymark, point up.	
22946.5 K 1008.1	-Rear, 926 meters 283° 52' from front.	2° 05.6' S 106° 09.5' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	46 14	7	White triangular daymark, point down.	
22948 K 1007	Karang Merah.	2° 01.0' S 106° 15.0' E	Fl.(2)G. period 15s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 9.5s	39 12	8	Green beacon.	Radar reflector.
22952 K 1005	Tg. Raja.	1° 53.9' S 106° 11.1' E	Fl.W. period 6s	98 30	14	White beacon.	Radar reflector.

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INDONESIA (BANGKA)							
22956 K 1004	Tg. Tuing.	1° 36.0' S 106° 03.0' E	Fl.W. period 6s	164 50	18	White beacon.	Radar reflector.
22957 K 1005.4	Karang Hidragraf Timur.	2° 01.2' S 106° 32.4' E	Fl.W. period 4s	42 13	12	White fiberglass tower; 33.	Radar reflector.
22958 K 1005.7	Karang Van Sittard.	2° 11.5' S 106° 45.1' E	Fl.(2)W. period 5s	42 13	12	ISOLATED DANGER BRB, beacon, topmark.	
22960 K 1006	General Elliot Reef.	2° 04.0' S 106° 18.8' E	L.Fl.W. period 18s	49 15	11	White metal framework tower; 33.	Radar reflector.
22964 K 1006.5	Kg. Miang.	2° 05.0' S 106° 17.5' E	Fl.R. period 4s	49 15	11	Red beacon, red square daymark; 33.	
	RACON		D(- • •)		15		(3 & 10cm) Azimuth coverage 340° - 100°.
22968 K 1002	Teluk Klabat, Pulau Penyusu.	1° 31.8' S 105° 41.3' E	Fl.W. period 7.5s	118 36	14	White metal tower; 131.	
22969 K 1003	-Mantong Range, front.	1° 37.4' S 105° 44.0' E	Q.W.	39 12	12		Radar reflector.
22969.1 K 1003.1	--Rear.	1° 37.6' S 105° 44.2' E	Iso.W. period 4s	105 32	12		

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INDONESIA (BELITUNG)							
22972 K 1020	Pulau Simedang.	3° 19.1' S 107° 12.8' E	Fl.(4)W. period 20s	200 61	20	White 16-sided iron tower; 187.	Radiobeacon.
22972.2 K 1020.5	Karang Batu Malang.	3° 15.0' S 107° 28.2' E	Fl.W. period 5s	43 13	12	White beacon.	
22972.25 K 1020.7	Kennedy Island.	3° 20.3' S 107° 42.2' E	Fl.(2)W. period 15s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 9.5s	72 22	14		
22972.3 K 1021.6	Karang-Karang Baginda.	3° 09.5' S 107° 02.5' E	Fl.G. period 7s	49 15	12	Green beacon.	
22972.5 K 1021.8	Batu Medang.	3° 22.2' S 106° 55.7' E	Fl.W. period 6s	49 15	13	White beacon.	
22973 K 1013	Karang Suji.	3° 34.7' S 106° 55.3' E	Fl.(2)W. period 10s	39 12	12		
22974 K 1021	Karang Genting.	3° 33.1' S 107° 41.7' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	33 10	11		
22974.5 K 1021.5	Pulau Kebatu.	3° 47.8' S 108° 03.0' E	Fl.W. period 5s	49 15	13	White beacon.	
22975 K 1024.2	Karang Tominkor.	2° 55.8' S 107° 07.5' E	Fl.W. period 3s	43 13	12	White beacon.	
22975.5 K 1024.1	Karang Pandan.	2° 53.2' S 107° 12.4' E	Fl.(2)W. period 10s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 7.2s	43 13	12	ISOLATED DANGER BRB, beacon, topmark.	

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INDONESIA (BELITUNG)							
22976 K 1024	Tanjung Ajer Lantjoer.	2° 53.0' S 107° 20.7' E	Fl.(3)W. period 20s fl. 1s, ec. 3s fl. 1s, ec. 3s fl. 1s, ec. 11s	203 62	21	White metal tower; 88.	
22976.5 K 1024.05	Langir Island.	2° 48.3' S 107° 22.2' E	Fl.(2)W. period 15s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 9.5s	72 22	14		
22977 K 1024.5	Pu Celaka.	2° 52.3' S 107° 01.0' E	Fl.(2)W. period 8s	105 32	15	White beacon; 98.	Obscured 218° -322° .
22977.5	Selemar.	2° 59.3' S 107° 06.6' E	Fl.G. period 5s	46 14	13	Green beacon.	
22978 K 1025	Tg. Murung.	3° 02.0' S 106° 53.7' E	Fl.W. period 10s	295 90	10	White beacon.	
22980 K 1022	Kasenga.	3° 02.7' S 107° 20.8' E	Fl.W. period 5s	66 20	12	Beacon, red and white bands; 59.	
	RACON		K(- • -)				
	PULAU BELITUNG:						
22984 K 1030	-Pulau Langkuas.	2° 32.1' S 107° 37.2' E	Fl.W. period 7.5s	200 61	20	White iron tower; 187.	Visible 003° -267° , except where obscured by islands.
22988 K 1032	-Northeast Coast.	2° 37.5' S 108° 12.5' E	Fl.(2)W. period 8s	39 12	11	White iron framework structure; 33.	Obscured in places by trees.
22990 K 1410.5	-Manggar.	2° 50.8' S 108° 17.6' E	Fl.W. period 5s	72 22	14	White beacon.	
22992	-Buoy.	2° 42.0' S 107° 31.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s			Red and white stripes.	Radar reflector.
22998 K 1028.8	Tanjungpandan Harbor.	2° 44.8' S 107° 37.7' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	79 24	18	White beacon.	
23000 K 1028	-Tanjung Pandan.	2° 44.1' S 107° 35.7' E	Q.(2)G. period 8s	43 13	12	Green metal framework tower; 33.	Obscured 328° -064° .
23002 K 1028.7	-Beacon.	2° 43.9' S 107° 35.5' E	Fl.R. period 7s	23 7	6	PORT (A) R, beacon.	

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INDONESIA (SUMATERA-EAST COAST)

23004 K 0928	Panjurit.	5° 53.2' S 105° 47.2' E	Fl.(3)W. period 8s	177 54	18	White beacon; 19.	
	RACON		M(- -)				
23008 K 0928.5	Dau Island.	5° 52.0' S 105° 46.0' E	Fl.R. period 4s	26 8	6	Red beacon.	
23009 K 0928.55	-Off SW. end.	5° 52.5' S 105° 45.8' E	Q.(6)+L.Fl.W. period 15s	33 10	8	S. CARDINAL YB, beacon, topmark.	
23009.2 K 0928.6	Gosong Barak.	5° 52.2' S 105° 46.5' E	Q.Y.	33 10	6	SPECIAL Y, beacon, topmark.	

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INDONESIA (SUMATERA-EAST COAST)							
23009.4 <i>K 0928.65</i>	Tanjung Katila.	5° 51.8' S 105° 45.5' E	Fl.G. period 3s			4 STARBOARD (A) G, beacon, topmark.	
23009.6 <i>K 0928.7</i>	Bakauhuni.	5° 52.2' S 105° 45.1' E	Fl.(2)G. period 5s	33 10		6 STARBOARD (A) G, beacon, topmark.	
23012 <i>K 0929</i>	Kelapa Island.	5° 52.0' S 105° 45.0' E	Fl.(2)R. period 6s	29 9		6 Red beacon.	
23013 <i>K 0929.2</i>	-SW end.	5° 52.6' S 105° 45.2' E	V.Q.(6)+L.Fl.W. period 10s	33 10		8 S. CARDINAL YB, beacon, topmark.	
23013.5 <i>K 0929.3</i>	Karang Ujung Kanggalan.	5° 47.6' S 105° 48.5' E	Fl.W. period 5s	43 13		12 White beacon.	
23014 <i>K 0929.5</i>	Pulau Mundu.	5° 40.8' S 105° 50.2' E	Fl.W. period 6s	75 23		16 White beacon.	
23015 <i>K 0929.6</i>	Maginggai, S. of Tg. Penet.	5° 21.3' S 105° 49.2' E	Fl.W. period 3s	46 14		11 White beacon.	

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INDONESIA (SUMATERA-SOUTH COAST)							
23016 <i>K 0927</i>	Tanjung Tua.	5° 54.2' S 105° 43.2' E	Fl.(3)W. period 10s	164 50		12 White metal framework tower; 49.	
23020 <i>K 0926.5</i>	Serdang.	5° 49.2' S 105° 23.4' E	Fl.(3)W. period 10s	202 62		21 Red lantern on white framework tower; 131.	
23022 <i>F 0927.5</i>	Pulau Rakata.	6° 09.6' S 105° 27.5' E	Fl.W. period 4s fl. 1s, ec. 3s	43 13		12 White beacon.	
23024 <i>K 0926</i>	Palau Sebuku, Cukuh Banding.	5° 50.9' S 105° 32.0' E	Fl.W. period 5s	116 35		11 White metal framework tower; 33.	Visible 095° -324° .
23028 <i>K 0925</i>	Pulau Tiga.	5° 49.0' S 105° 33.1' E	Fl.(2)W. period 6s	98 30		13 ISOLATED DANGER BRB, beacon, topmark; 20.	
23036 <i>K 0923.5</i>	Ujung Cukucimanuk.	5° 39.4' S 105° 28.2' E	Fl.(2)W. period 7s	75 23		10 White beacon; 49.	
23040 <i>K 0923</i>	Cendung Laut.	5° 33.8' S 105° 20.7' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	288 88		7 Green iron framework structure; 39.	
23044 <i>K 0922</i>	Kouala.	5° 27.5' S 105° 19.0' E	Fl.W.R. period 5s	134 41		20 White metal framework tower, white triangular daymark; 20.	R. 052° -057° , W.-067° , R.- 072° .
23048 <i>K 0920</i>	Tanjungkarang-Telukbetung, reef.	5° 28.1' S 105° 16.5' E	Fl.(2)R. period 10s	60 18		7 Red metal framework tower; 42.	
23052 <i>K 0920.5</i>	-Kunjit.	5° 26.8' S 105° 16.8' E	Fl.W. period 3s	144 44		18 Beacon; 16.	
23056 <i>K 0922.4</i>	-Panjang.	5° 28.0' S 105° 19.0' E	F.R.	36 11		6 White iron framework structure; 30.	Often obscured by moored vessels.
23058 <i>K 0922.2</i>	--Entrance, N. side.	5° 27.9' S 105° 19.0' E	Fl.R. period 2s fl. 0.5s, ec. 1.5s	33 10		11	
23060 <i>K 0922.6</i>	---S. side.	5° 28.0' S 105° 18.7' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	30 9		4 STARBOARD (A) G, beacon, topmark.	Radar reflector.
23064 <i>K 0923.2</i>	-Maitem.	5° 35.8' S 105° 15.2' E	Fl.W. period 8s	138 42		18 White structure.	

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INDONESIA (SUMATERA-SOUTH COAST)							
23076 <i>K 0914</i>	Tg. Cukuhbalaming.	5° 55.6' S 104° 33.5' E	Fl.(2)W. period 10s	207 63	20	White metal tower, dwelling; 190.	Visible 276° -138° , obscured by trees on Betna (Little Fortune) Island 105° -108° .
	RACON		B(- • • •)				
23080 <i>K 0824</i>	-Cocos Islands.	12° 05.0' S 96° 53.0' E	Fl.(2)W. period 8s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	19 6	8	Metal framework structure; 23.	
23086 <i>K 0911</i>	Ug. Cukubatuberagam.	5° 38.4' S 104° 18.0' E	Fl.W. period 7.5s fl. 0.5s, ec. 7s	105 32	16		
23088 <i>K 0910</i>	Ug. Walor.	5° 12.7' S 103° 54.3' E	F.W.	138 42	17	White iron framework structure; 131.	
23092 <i>K 0906</i>	Krui, on Salobu Point.	5° 11.0' S 103° 56.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	116 35	7	White metal framework tower; 42.	Visible 044° -123° . F.G. shown from W. mole, F.R. from E. mole.
23096 <i>K 0904</i>	Teluk Krui, Pulau Pisang.	5° 07.3' S 103° 51.1' E	L.Fl.W. period 15s	250 76	12	White iron framework tower; 102.	Visible 270° -150° .
23098 <i>K 0900</i>	Tanjung Linau.	4° 51.0' S 103° 24.5' E	Fl.(3)W. period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 10.5s	98 30	13		
23099 <i>K 0898</i>	Tanjung Bandar.	4° 48.5' S 103° 20.8' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	59 18	12	White metal framework tower; 53.	
23100 <i>K 0897</i>	Tanjung Manna.	4° 29.0' S 102° 54.0' E	Fl.(3)W. period 15s	98 30	13		
23101 <i>K 0895</i>	Pulau Enggano.	5° 20.9' S 102° 17.3' E	Fl.(4)W. period 20s	197 60	20	White metal framework structure; 131.	
23101.5 <i>K 0895.4</i>	-Beacon.	5° 20.4' S 102° 17.3' E	Fl.W. period 5s	39 12	12	White.	

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INDONESIA (SUMATERA-WEST COAST)							
23101.7	Pulau Mega.	3° 59.9' S 101° 03.0' E	Fl.W. period 10s	108 33	16	White beacon.	
	PULAU BAAI:						
23102 <i>K 0885.5</i>	-Range, front.	3° 55.4' S 102° 17.5' E	Q.W.	26 8	8	White beacon, white triangular daymark, point up.	
23102.2 <i>K 0885.51</i>	--Rear, 270 meters 145° 30' from front.	3° 55.4' S 102° 17.6' E	Fl.W. period 3s	39 12	8		
23102.4 <i>K 0885</i>	-W. breakwater, head.	3° 53.9' S 102° 16.5' E	Fl.G. period 3s	26 8			
23102.6 <i>K 0885.2</i>	-E. breakwater, head.	3° 53.9' S 102° 16.6' E	Fl.R. period 2s	26 8			

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INDONESIA (SUMATERA-WEST COAST)							
BENGKULU:							
23104 <i>K 0884</i>	-Pulau Tikus.	3° 50.5' S 102° 10.9' E	Iso.W. period 10s	109 33	16	Red and white iron framework tower; 98.	
23108 <i>K 0893</i>	-Lempuyang.	3° 49.8' S 102° 17.3' E	Fl.W.R. period 2s	56 17	12	White fiberglass beacon; 32.	W. 060° -033°, R.-060°.
23112	Serangai.	3° 25.0' S 101° 53.7' E	Fl.W. period 5s	69 21	14	White beacon.	
23115 <i>K 0883.65</i>	Tg. Bio.	3° 20.5' S 100° 28.0' E	Fl.W. period 4s	69 21	13	White beacon.	Radar reflector.
23116	Simonga.	3° 15.8' S 100° 34.3' E	Fl.W. period 8s	135 41	18	White structure.	
23120 <i>K 0883.6</i>	P. Silau.	3° 12.9' S 100° 17.9' E	Fl.W. period 5s	69 21	13	White beacon.	Radar reflector.
23124 <i>K 0883.7</i>	Sangingi.	3° 07.8' S 100° 28.6' E	Fl.W. period 5s	46 14	12	White beacon.	
23126 <i>K 0883.55</i>	Tg. Laggaisao.	3° 02.5' S 100° 27.8' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	39 12	13	White beacon.	
23128 <i>K 0881</i>	Mukomuko.	2° 33.0' S 101° 05.0' E	Fl.W. period 5s	82 25	12	White beacon.	
23132 <i>K 0883</i>	Sikakap Strait.	2° 46.5' S 100° 13.5' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	164 50	10	White beacon; 19.	
23134	-N. side.	2° 46.5' S 100° 13.0' E	Fl.W. period 3s	49 15	10		
23135	Pulau Nusa.	2° 51.5' S 100° 09.0' E	Fl.W. period 4s	39 12	12	White beacon.	
23135.5 <i>K 0879</i>	Tg. Pinangpinang.	2° 30.0' S 99° 59.4' E	Fl.W. period 5s	39 12	11	White beacon.	
23135.7	Tg. Kinapet.	2° 24.1' S 99° 51.3' E	Fl.W. period 5s	69 21	14	White beacon.	
23136 <i>K 0878.1</i>	Palau Sipura.	2° 11.1' S 99° 43.8' E	Fl.W. period 5s	46 14	6	White framework tower; 39.	
23137 <i>K 0878</i>	Bukit Siuban.	2° 10.5' S 99° 43.2' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	79 24	14	White fiberglass structure; 33.	Radar reflector.
23138 <i>K 0877.8</i>	-Siburu.	1° 59.8' S 99° 35.9' E	Fl.W. period 5s	46 14	12	White beacon.	
23140 <i>K 0880</i>	Pulau Katangkatang.	1° 53.5' S 100° 33.8' E	Fl.(3)W. period 22s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 15s	72 22	13	White iron framework; 65.	
23142 <i>K 0880.2</i>	Gosong Sumedang.	1° 50.3' S 100° 45.8' E	Fl.W. period 3s	43 13	11	White beacon.	
23144 <i>K 0877</i>	Siberut Bay.	1° 35.9' S 99° 12.2' E	Fl.W. period 7s	147 45	15	White framework tower; 39.	
23148 <i>K 0877.5</i>	-Tg. Sikabai.	1° 35.7' S 99° 15.1' E	Fl.W. period 5s	46 14	12	White beacon.	
23150 <i>K 0877.2</i>	--Muarasiberut.	1° 35.7' S 99° 12.7' E	FR.	26 8	2	Beacon; 6.	

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INDONESIA (SUMATERA-WEST COAST)							
23151	-Simalepet.	1° 33.8' S 99° 11.9' E	Fl.W. period 5s	49	12	White beacon.	
23152 <i>K 0876</i>	-Sikabaloan.	1° 06.9' S 99° 00.0' E	Fl.W. period 7s	42	7	White beacon; 39.	
23152.5	-Tabekat Bay.	1° 04.8' S 98° 57.3' E	Fl.W. period 5s	49	12	White beacon.	
23153 <i>K 0875.7</i>	Tg. Sigep , Pulau Siberut.	0° 54.9' S 98° 54.2' E	Fl.W. period 5s	46	16		
23153.5 <i>K 0876.2</i>	Tg. Sakaladat.	1° 11.5' S 98° 36.3' E	Fl.W. period 4s	69	13	White beacon.	Radar reflector.
23153.8 <i>K 0877.6</i>	Pulau Ngiau.	1° 51.6' S 99° 04.4' E	Fl.W. period 5s fl. 1s, ec. 4s	108	16	White beacon.	
23154 <i>K 0875</i>	Pulau Karaba Kecil.	1° 36.4' S 100° 32.8' E	Fl.(3)W. period 20s	144	18		
23156 <i>K 0874</i>	Pulau Nuamuk, E. side.	1° 16.0' S 100° 18.0' E	Fl.(2)W. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	150	7	White skeleton iron tower hidden by palm trees; 102.	Partially obscured within short distance of island from 033°-062°, and within 1 mile from 099°-146°.
23158 <i>K 0873</i>	Pulau Brintanggar.	1° 09.0' S 100° 19.5' E	Fl.W. period 5s	381	10	White framework tower; 49.	
23158.5 <i>K 0872.5</i>	Pulau Sirandah.	1° 07.4' S 100° 19.9' E	Fl.W. period 3s	39	12		
23159 <i>K 0861.5</i>	Gosong Gadang.	1° 03.1' S 100° 15.8' E	Fl.W. period 3s	56	10	Beacon.	
23160 <i>K 0862</i>	Marlbro Reef.	1° 02.3' S 100° 20.9' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	39	12	Red beacon; 39.	
	RACON		B(- • • •)				
23161 <i>K 0872</i>	Teluk Bungus.	1° 02.6' S 100° 23.4' E	Fl.W. period 3s	56	6	Beacon.	
23162 <i>K 0851</i>	-Karang Sandung.	1° 03.3' S 100° 23.3' E	Q.(2)W. period 5s	59	12	ISOLATED DANGER BRB, beacon, topmark.	
23162.2 <i>K 0851.5</i>	-Ujung Passar Cindakir.	1° 03.4' S 100° 23.8' E	Fl.R. period 2s	46	11	PORT (A) R, beacon.	Radar reflector.
23162.4 <i>K 0852</i>	-Passar Batung.	1° 03.8' S 100° 24.3' E	Fl.W. period 3s	46	11	White beacon.	Radar reflector.
23162.6 <i>K 0852.5</i>	-Ujung Sadah.	1° 04.0' S 100° 23.5' E	Fl.G. period 3s	46	11	STARBOARD (A) G, beacon, topmark.	Radar reflector.
23162.8 <i>K 0853</i>	-Ujung Cino.	1° 04.2' S 100° 23.9' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	46	11	STARBOARD (A) G, beacon, topmark.	Radar reflector.
23164 <i>K 0864</i>	Ujung Batumandi (Ujung Sungei Bramei).	1° 02.5' S 100° 22.8' E	Fl.(3)W. period 20s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 14.7s	528	21	White tower, stone base; 46.	
	RACON		M(- -)				
23165 <i>K 0858</i>	Pulau Toran.	1° 02.4' S 100° 10.2' E	Fl.W. period 4s	56	12	White metal framework tower; 49.	
23168 <i>K 0871</i>	Beting Tampek.	1° 01.0' S 100° 23.0' E	Fl.G. period 5s	34	8	Beacon.	

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INDONESIA (SUMATERA-WEST COAST)							
23172 <i>K 0868</i>	Teluk Bayur.	1° 00.0' S 100° 22.0' E	Fl.R. period 5s	20 6	7	White iron framework.	
23176 <i>K 0870</i>	Karsik Reef, SW. end.	1° 00.1' S 100° 22.2' E	Fl.G. period 4s	23 7	5	White beacon; 13.	
23180 <i>K 0870.2</i>	-NE. end.	1° 00.0' S 100° 22.3' E	L.Fl.W. period 7s fl. 2s, ec. 5s	23 7	6	Beacon; 13.	
23184 <i>K 0861</i>	Pulau Pisang.	0° 59.7' S 100° 20.1' E	Fl.G.	33 10	10	White iron framework tower; 33.	
23188 <i>K 0860</i>	Padang.	0° 58.0' S 100° 21.0' E	Fl.W. period 5s	30 9	10	White metal framework tower; 13.	
23190 <i>K 0859</i>	Karang Sipakal.	0° 55.7' S 100° 14.6' E	Fl.(3)W. period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 10.5s	30 9	10	Beacon.	
23192 <i>K 0842</i>	Pulau Bodjo.	0° 38.5' S 98° 30.5' E	Fl.W. period 4s	391 119	21	White iron tower, stone dwelling; 197.	Visible 202° -113° .
23196 <i>K 0850</i>	Pulau Karsik.	0° 36.0' S 100° 04.0' E	Fl.(4)W. period 15s	105 32	16	White iron structure; 102.	Visible 246° -163° , except where obscured by the islands of Oedjoeng, Tangah, and Anso.
23198 <i>K 0845</i>	Ingaris.	0° 28.9' S 99° 51.2' E	Fl.(2)W. period 8s	39 12	13	White beacon.	
23200 <i>K 0846</i>	Pulau Ujung.	0° 25.5' S 99° 53.5' E	Fl.W. period 5s	98 30	12	White metal framework tower; 46.	
23201 <i>K 0844</i>	Moller Reef.	0° 04.3' S 99° 23.9' E	Fl.(3)W. period 15s	39 12	10		
23202 <i>F 1234</i>	Pulau Marit.	0° 00.9' N 98° 15.7' E	Fl.W. period 4s	49 15	15		
23204 <i>K 0838</i>	Pulau Sigata.	0° 07.5' S 98° 12.0' E	V.Q.(4)W. period 3s	382 116	26	White iron framework tower; 115.	Obscured by Pulo Simuk 94° - 102° and by Tanjong Hatik on bearings less than 348° , partially obscured 183° -222° .
23206 <i>K 0838.5</i>	Pulau Simuk.	0° 05.0' S 97° 51.2' E	Fl.W. period 5s	46 14	12	Beacon.	Radar reflector.
23208	Pulutello.	0° 03.6' S 98° 16.6' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	23 7	6	White framework tower; 20.	
23209 <i>F 1235</i>	Pulau Pini.	0° 08.3' N 98° 31.3' E	Fl.W. period 8s	138 42	16	White framework tower; 98.	
23209.2 <i>F 1235.5</i>	-Tg. Simanusu.	0° 10.2' N 98° 47.5' E	Fl.W. period 4s	102 31	18	White beacon.	
23209.5 <i>K 0838.7</i>	Pulau Pono.	0° 06.5' S 98° 18.0' E	Fl.W. period 5s	46 14	13	Beacon.	Radar reflector.
23210 <i>F 1237</i>	Karang Ular.	0° 05.2' N 98° 56.7' E	Fl.W. period 4s	49 15	15		
23212 <i>F 1236</i>	Pulau Pangkal.	0° 08.3' N 99° 17.1' E	Oc.W. period 3s lt. 2s, ec. 1s	187 57	19	White iron framework tower; 26.	
23216 <i>F 1236.5</i>	Air bangis.	0° 11.1' N 99° 22.1' E	Fl.W. period 4s	33 10	6	White iron framework structure.	

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INDONESIA (SUMATERA-WEST COAST)							
23220 F 1238	Pulau Temang.	0° 21.8' N 99° 05.4' E	L.F.I.W. period 9s fl. 3s, ec. 6s	213 65	20	White iron framework tower; 72.	Visible 337° -217° .
23224 F 1241	Natal.	0° 33.0' N 99° 06.0' E	Fl.W. period 3s	49 15	6	White beacon.	
23224.5 F 1242	Karang Bayang.	0° 34.4' N 98° 59.3' E	Fl.W. period 5s	43 13	13	ISOLATED DANGER BRB, beacon, topmark.	
23225 F 1242.5	Sikarakara.	0° 36.6' N 99° 03.2' E	Fl.W. period 5s	42 13	12	White beacon.	
23228 F 1244	Pulau Labu, (Sidakah).	0° 51.6' N 98° 56.5' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	213 65	16	White metal framework tower; 49.	Visible 298° -205° . Radar reflector.
23232 F 1255	Teluk Dalam.	0° 32.6' N 97° 49.0' E	Fl.W. period 5s	651 198	19		
23236 F 1255.2	-Pier, head.	0° 33.9' N 97° 48.6' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	105 32	13		
23238 F 1254.6	Legundi.	0° 34.5' N 97° 44.0' E	Fl.W. period 6s	42 13	12	White beacon.	
23239 F 1254.5	T Soahebohu.	0° 35.2' N 97° 40.5' E	Fl.(4)W. period 18s fl. 0.3s, ec. 3.6s fl. 0.3s, ec. 3.6s fl. 0.3s, ec. 3.6s fl. 0.3s, ec. 6s	114 35	16	White beacon.	
23240 F 1254	Pulau Hinaka.	0° 52.0' N 97° 20.0' E	Fl.W. period 5s	178 54	12	White iron skeleton tower; 105.	Obscured 117° -126° , within distance of 9 miles obscured by islets in some places.
23244 F 1254.2	-SE. side.	0° 52.0' N 97° 20.2' E	L.F.I.W. period 6s fl. 2s, ec. 4s	33 10	5	Mast; 20.	
23244.2 F 1254.4	Tg Sirombu.	0° 56.2' N 97° 24.2' E	Fl.(4)W. period 18s fl. 0.3s, ec. 3.6s fl. 0.3s, ec. 3.6s fl. 0.3s, ec. 3.6s fl. 0.3s, ec. 6s	104 32	16	White beacon.	
23245.5 F 1256	Ug Sumabawa.	0° 48.8' N 97° 54.2' E	Fl.(4)W. period 17s fl. 0.3s, ec. 3.6s fl. 0.3s, ec. 3.6s fl. 0.3s, ec. 3.6s fl. 0.3s, ec. 5s	72 22	13	White beacon.	
23246 F 1257	Punau Sumabawa.	0° 54.4' N 98° 00.8' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	108 33	16	White metal framework tower; 98.	Radar reflector.
23247 F 1262.4	Karang Pandjang.	1° 03.0' N 98° 18.5' E	Q.(6)+L.F.I.W. period 15s	39 12	12	S. CARDINAL YB, beacon, topmark.	
23247.5 F 1253	Sebua.	1° 10.0' N 97° 17.5' E	Fl.W. period 4s	69 21	14		
23248 F 1248	Tandjung M'ba'a.	1° 19.0' N 97° 36.0' E	Fl.W. period 5s	247 75	22	White iron skeleton structure; 69.	Visible from 145° , through S., until obscured by Tanjong Lembrau.
23252 F 1248.4	Gunong Sitoli.	1° 18.0' N 97° 36.0' E	F.R.	8 2	2	Flagstaff.	Occasional.
23256 F 1248.2	-Harbor.	1° 18.2' N 97° 36.2' E	Fl.Y. period 3s fl. 0.5s, ec. 2.5s	33 10	6		

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INDONESIA (SUMATERA-WEST COAST)							
23258 <i>F 1249</i>	Pulau Sarangbuang.	1° 42.2' N 97° 26.3' E	Fl.(2)W. period 8s	180 55	14		
23259 <i>F 1265</i>	Pulau Mansalar.	1° 42.1' N 98° 27.9' E	Fl.W. period 5s	114 35	14	Beacon.	Radar reflector.
23260 <i>F 1250</i>	Gosong Baohi.	1° 26.1' N 97° 10.2' E	Fl.W. period 5s	92 28	15	White iron skeleton structure; 82.	Radar reflector.
23261 <i>F 1252</i>	Lahewa.	1° 24.4' N 97° 10.2' E	Fl.W. period 3s	46 14	12	Beacon.	Radar reflector.
23262 <i>F 1251</i>	-Goso Uma Lahewah.	1° 28.0' N 97° 12.2' E	Fl.W. period 2s	49 15	10		
23267 <i>F 1262.3</i>	Bintanah.	1° 28.6' N 98° 10.4' E	Fl.W. period 5s	108 33	15	White framework tower; 98.	
23268 <i>F 1262</i>	South Pylades, SE. reef.	1° 40.7' N 98° 00.7' E	Fl.W. period 8s	52 16	13	ISOLATED DANGER BRB, tower, topmark.	Obscured by Palau Lakota.
23268.5 <i>F 1260</i>	Pulau Lakota.	1° 50.6' N 98° 01.2' E	Fl.W. period 6s	42 13	12	White beacon.	
23269 <i>F 1262.5</i>	Labu Labu Kecil.	1° 34.6' N 98° 36.2' E	Fl.(2)W. period 7s	187 57	15	White metal framework structure; 131.	
23271 <i>F 1245</i>	Pulau Ilir.	1° 15.9' N 98° 49.1' E	Fl.W. period 9s	308 94	24	White metal framework structure.	
23272 <i>F 1263.5</i>	Aik Habil.	1° 43.0' N 98° 47.0' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	33 10	5	Green beacon.	
23276 <i>F 1263.3</i>	Pulau Poncan.	1° 43.0' N 98° 46.0' E	Fl.G. period 2s fl. 0.2s, ec. 1.8s	36 11	5	Green beacon.	
23280 <i>F 1264.5</i>	Sarudut.	1° 43.0' N 98° 46.0' E	Fl.R. period 6s	33 10	5	Red beacon.	
23284 <i>F 1263</i>	Ujung Karang.	1° 44.0' N 98° 42.0' E	Fl.(3)W. period 17s fl. 0.5s, ec. 3s fl. 0.5s, ec. 3s fl. 0.5s, ec. 9.5s	134 41	17	White metal framework structure; 131.	
23285 <i>F 1263.2</i>	P. Pocan Kecil.	1° 43.3' N 98° 44.8' E	Q.(3)W. period 12s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 6.5s	39 12	13	E. CARDINAL BYB, beacon, topmark.	
23288 <i>F 1264</i>	Teluk Sibolga, pier.	1° 44.4' N 98° 46.3' E	Fl.W. period 5s	43 13	12	White iron framework; 13.	F.R. shown from near customhouse in Barus when vessels are in roadstead.
23289 <i>F 1266.3</i>	Ug Silabi.	2° 01.9' N 98° 16.0' E	L.Fl.W. period 10s	49 15	12	White beacon.	
23290 <i>F 1265.5</i>	Pulau Karang.	1° 58.2' N 98° 20.7' E	Fl.W. period 5s	42 13	12	Beacon.	Radar reflector.
23291 <i>F 1267.5</i>	Karang Rumambi.	2° 13.2' N 97° 45.9' E	Fl.(2)R. period 10s	46 14	13	Red beacon.	
23292 <i>F 1267</i>	Singkel.	2° 15.2' N 97° 45.6' E	Fl.W. period 6s	108 33	17	White framework tower; 98.	
23295 <i>F 1271.5</i>	Pulau Bagu.	2° 17.7' N 97° 23.7' E	Fl.(4)W. period 18s fl. 0.3s, ec. 3.6s fl. 0.3s, ec. 3.6s fl. 0.3s, ec. 3.6s fl. 0.3s, ec. 6s	105 32	16	White beacon.	

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(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDONESIA (SUMATERA-WEST COAST)							
23296 F 1271	Pulau Baleh.	2° 18.0' N 97° 24.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	26 8	6	White beacon; 23.	
23298 F 1270.5	Panjang.	2° 16.9' N 97° 24.1' E	Fl.W. period 3s	102 31	7	White beacon.	
23300 F 1270	Pulau Panjang.	2° 16.8' N 97° 23.6' E	Q.(3)W. period 6s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 3.5s	33 10	12	White beacon.	
23304 F 1273	Sarang Uln.	1° 58.7' N 97° 23.0' E	Fl.W. period 5s	135 41	17		
23305 F 1273.5	Pulau Babi.	2° 05.8' N 96° 36.7' E	Fl.W. period 5s	105 32	17	White beacon.	
23306 F 1281	Pulau Tepak.	2° 21.0' N 96° 15.0' E	Fl.W. period 9s	328 100	18	White beacon.	
23307 F 1280	Pulau Simeuloe.	2° 32.0' N 95° 55.5' E	Fl.(2)W. period 12s	295 90	18	White beacon.	
23308 F 1274.5	Teluk Sinabang, Ujong Babang.	2° 30.5' N 96° 24.0' E	Fl.W. period 3s	131 40	12		Visible 037° 30' -306° except when obscured by Siumat Island.
23310 F 1278	Tinggi.	2° 50.5' N 95° 58.0' E	Fl.W. period 3s fl. 1s, ec. 2s	131 40	16	White metal framework structure; 98.	
23310.5 F 1277	Ujung Sirih.	2° 40.6' N 96° 09.7' E	Fl.R. period 7s	49 15	12	Red metal framework tower; 33.	
23311 F 1276	Pulau Siumat.	2° 38.4' N 96° 23.5' E	Fl.W. period 6s	138 42	17		
23312 F 1275	-Rangasa.	2° 30.3' N 96° 24.1' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	52 16	6	Green beacon; 49.	Radar reflector.
23316 F 1274	--Panjang Island.	2° 30.0' N 96° 23.6' E	Fl.G. period 3s	52 16	6		
23317 F 1278.5	-Ujung Sibigo.	2° 50.5' N 95° 54.6' E	Fl.G. period 5s	46 14	15	Green beacon.	
23318 F 1279	Salaut Besar.	2° 57.6' N 95° 24.0' E	Fl.(3)W. period 20s	76 23	14	White beacon.	
TAPAKTUAN:							
23320 F 1284	-Ujung Kupiah.	3° 15.0' N 97° 10.5' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	184 56	8	White iron framework tower; 45.	Visible 229° -133° .
23322 F 1291	Teluk Susoh.	3° 43.0' N 96° 48.6' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	39 12	10	White metal framework tower; 23.	
23324 F 1290	Susoh.	3° 42.8' N 96° 48.4' E	Fl.G. period 5s	33 10	12	Green beacon; 23.	
23326 F 1289	Ujung Raya.	3° 44.2' N 96° 31.3' E	Fl.(4)W. period 20s	138 42	25		
23328 F 1292	Ujung Kareueng, Teluk Muelaboh.	4° 07.3' N 96° 07.4' E	L.Fl.W. period 8s fl. 2s, ec. 6s	89 27	11	White iron framework tower; 82.	Visible 269° -124° .
23328.5 F 1292.2	Krueng Teunom.	4° 26.5' N 95° 47.7' E	Fl.R. period 7.5s	112 34	14	White metal framework structure; 98.	

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INDONESIA (SUMATERA-WEST COAST)							
23329 <i>F 1292.3</i>	Rangas.	4° 38.2' N 95° 31.0' E	Fl.W. period 5s	164 50	17		
23329.5 <i>F 1292.35</i>	Ujung Baro.	4° 39.2' N 95° 32.4' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	197 60	17	White metal framework structure; 98.	
23330 <i>F 1292.5</i>	Palau Raya.	4° 52.6' N 95° 22.1' E	Q.(2)W. period 5s	236 72	18		
23331 <i>F 1292.7</i>	Ug Tangkura.	5° 06.6' N 95° 16.8' E	Q.(3)W. period 5s	147 45	16		

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INDONESIA (JAWA-ADJACENT ISLANDS)							
SELAT SUNDA:							
23332 <i>K 1050.2</i>	-Tanjung Layar.	6° 45.0' S 105° 12.7' E	Fl.(3)W. period 15s	163 50	18	White metal framework tower; 98.	Visible 343° -237° , except partially obscured 343° - 007° , obscured by Princess Island 141° - 199° .
23333 <i>K 1050.1</i>	-Tanjung Parat.	6° 31.6' S 105° 15.9' E	Fl.W. period 4s	105 32	16	White beacon.	
23333.4 <i>K 1050.15</i>	-Tanjung Waton.	6° 36.8' S 105° 06.0' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	82 25	14	White beacon.	
23333.5 <i>K 1050.3</i>	-Tanjung Alangalang.	6° 38.8' S 105° 22.3' E	Fl.Y. period 3s	39 12	8	SPECIAL Y, beacon, topmark.	
23334 <i>K 1050.5</i>	-Tanjung Lesung.	6° 28.2' S 105° 39.8' E	Fl.W. period 4s	75 23	14	White beacon.	
23335 <i>K 1050.05</i>	-Panto Binuangen.	6° 05.7' S 105° 52.9' E	Fl.W. period 7.5s fl. 0.5s, ec. 7s	105 32	16		
23336 <i>K 1050</i>	-Tanjung Cikoneng (Tjikikoneng).	6° 04.2' S 105° 53.0' E	Fl.(2)W. period 20s	197 60	19	White iron tower; 190.	Obscured when bearing more than 216° .
23338 <i>K 1051.7</i>	-Paku.	6° 02.4' S 105° 55.4' E	Q.W.		10	N. CARDINAL BY, pole, topmark.	
23340 <i>K 1051</i>	Pulau Ular.	6° 00.0' S 105° 56.0' E	Fl.W. period 5s	210 64	8	Beacon.	
23342 <i>K 1051.1</i>	Palau Sangiang.	5° 58.0' S 105° 51.2' E	Fl.W. period 7.5s fl. 0.5s, ec. 7s	105 32	16		
23344 <i>K 1052</i>	Pulau Tampurung.	5° 54.0' S 105° 55.8' E	Fl.W. period 3s fl. 1s, ec. 2s	253 77	13	White metal framework tower.	Obscured 045° -066° .
	RACON		B(- • • •)		20		
23346 <i>K 1052.5</i>	Merak.	5° 57.6' S 105° 59.8' E	Fl.W. period 5s	39 12	12	White beacon.	
23346.5 <i>K 1052.7</i>	-Inner.	5° 57.7' S 105° 59.9' E	Fl.W. period 3s	39 12	12	White beacon.	
23346.7 <i>K 1052.6</i>	-Jetty.	5° 57.8' S 105° 59.9' E	Fl.W. period 4s	39 12	12	White beacon.	

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INDONESIA (JAWA-ADJACENT ISLANDS)							
23347 K 1052.9	Pulau Merak Besar.	5° 56.3' S 105° 59.2' E	Fl.(2)G. period 14s fl. 0.3s, ec. 3s fl. 0.3s, ec. 10.4s		10	Green beacon, topmark.	
23348 K 1053	Salat Merak.	5° 56.0' S 105° 59.7' E	Q.(3)R. period 8s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 5.5s	29 9	6	Red beacon, topmark; 20.	
23352 K 1053.2	Merak Harbor.	5° 56.0' S 105° 59.5' E	Fl.R. period 2s fl. 0.4s, ec. 1.6s	39 12	6	Red beacon; 26.	
23353 K 1053.26	Tg. Sekong.	5° 55.1' S 105° 59.9' E	Fl.R. period 4s fl. 1s, ec. 3s		10	PORT (A) R, beacon, topmark.	
PELABUHAN SURALAYA:							
23354 K 1053.3	-Range, front.	5° 53.3' S 106° 01.8' E	Fl.W. period 4s	39 12	15		
23354.1 K 1053.31	--Rear, 143° 31' from front.	5° 53.3' S 106° 01.9' E	Fl.W. period 4s	42 13	15		
23355.1 K 1053.33	-SW. approach.	5° 53.0' S 106° 01.6' E	Fl.W.R.G. period 5s	29 9	10		G.-132° 30' -208° 30' , W.- 210° 30' , R.-222° 30' .
23355.3 K 1053.35	-NE. approach.	5° 52.9' S 106° 01.7' E	Fl.W.R.G. period 6s	29 9	10		R.-042° 30' -059° 30' , W.- 061° 30' , G.-132° .
23356 K 1053.6	-Tanjung Kamal.	5° 54.0' S 106° 01.0' E	Fl.W. period 1.5s	23 7	7		
23358 K 1053.7	Tanjung Piatu.	5° 52.8' S 106° 04.2' E	Fl.W. period 4s	39 12	13		
23358.5 K 1053.72	-Pulau Salira, N.	5° 52.7' S 106° 03.8' E	Fl.Y. period 4s	18 5	4		
23358.6 K 1053.74	--S.	5° 52.7' S 106° 03.9' E	Fl.Y. period 5s	18 5	4		
23359 K 1053.9	-Beacon.	5° 53.4' S 106° 05.5' E	Fl.R. period 5s fl. 1s, ec. 4s		10	Red beacon, topmark.	
23359.5 K 1053.91	--E.	5° 53.4' S 106° 05.6' E	Fl.G. period 5s fl. 1s, ec. 4s		10	Green beacon, topmark.	
23360 K 1054	Pulau Tunda.	5° 48.9' S 106° 17.0' E	L.Fl.W. period 6s	105 32	15	White metal framework tower; 98.	
23361 K 1054.5	Teluk Banten.	5° 56.0' S 106° 06.5' E	Fl.W. period 3s	49 15	12		
23362 K 1055	Karang Antu.	6° 01.5' S 106° 09.4' E	Fl.W. period 5s	43 13	12	White beacon.	
23363 K 1056	Pulau Tidang Besar.	5° 47.5' S 106° 28.4' E	Fl.(2)W. period 10s	20 6	6	ISOLATED DANGER BRB, beacon, topmark.	
23363.5 K 1056.5	Pulau Karangberas.	5° 45.9' S 106° 33.1' E	Q.(9)W. period 15s	20 6	6	W. CARDINAL YBY, beacon, topmark.	
23363.6 K 1056.7	Layar Island.	5° 43.8' S 106° 33.4' E	Q.(9)W. period 15s	20 6	6	W. CARDINAL YBY, beacon, topmark.	Radar reflector.
23363.7 K 1056.8	Pandan Island.	5° 42.6' S 106° 33.8' E	V.Q.(9)W. period 10s	20 6	6	W. CARDINAL YBY, beacon, topmark.	Radar reflector.

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INDONESIA (JAWA-ADJACENT ISLANDS)							
23363.8 K 1056.9	Karang Gosong Congak.	5° 42.0' S 106° 35.9' E	Q.(3)W. period 10s	20	6	E. CARDINAL BYB, beacon, topmark.	Radar reflector.
23363.9 K 1056.6	Simedoun Island.	5° 43.2' S 106° 36.9' E	Q.(3)W. period 5s	20	6	E. CARDINAL BYB, beacon, topmark.	Radar reflector.
23364 K 1058	Pulau Payung Besar.	5° 49.4' S 106° 33.3' E	Fl.(2)W. period 10s	105	10	White iron framework tower; 98.	Partially obscured 114° - 263°.
23368 K 1060	Djong.	5° 51.3' S 106° 38.7' E	Fl.G. period 5s	33	11	Green tower on piles; 33.	
23370 K 1061	Gosong Dapur.	5° 55.4' S 106° 43.6' E	Fl.(2)W. period 8s	49	10		
23372 K 1060.5	Palau Peniki.	5° 41.7' S 106° 42.7' E	Fl.W. period 5s	105	16	White metal framework tower; 115.	Radiobeacon.
	RACON		K(- • -)				
23376 K 1042	Jaga Utara.	5° 12.4' S 106° 27.6' E	Fl.(2)W. period 11s	159	18	White skeleton tower; 157.	
23380 K 1043	Pulau Segama.	5° 10.1' S 106° 06.6' E	Fl.W. period 5s	149	22	White metal framework structure; 131.	
23382 K 1045	Gosong Serdang.	5° 04.6' S 106° 16.5' E	Fl.(2)W. period 10s	39	13	ISOLATED DANGER BRB, beacon, topmark.	
23383 K 1045.5	Tg. Bungin.	4° 33.5' S 106° 03.5' E	Fl.W. period 4s	39	12	White beacon.	
23383.5 K 1045.7	Tanjung Menjangan.	3° 49.7' S 106° 00.3' E	Fl.W. period 3s	39	12	White beacon.	
23384 K 1044	Chinta Oilfield Terminal.	5° 25.2' S 106° 14.3' E	Mo.(U)W. period 15s			Mooring buoy.	
23388 K 1040	Beting Raja.	5° 12.7' S 106° 44.6' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 6.5s	43	12	ISOLATED DANGER BRB, beacon, topmark; 39.	Radar reflector.
	RACON		B(- • • •)				
23392 K 1038	Beting Eka.	5° 17.5' S 106° 54.6' E	Fl.(2)W. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	49	11	ISOLATED DANGER BRB, beacon, topmark; 33.	Radar reflector.
23396 K 1078	Tanjung Krawang.	5° 54.3' S 107° 00.5' E	Fl.(2)R. period 8s	42	10	Red beacon; 46.	
23400 K 1079	-Northward, 9.3 miles.	5° 45.0' S 106° 59.0' E	Fl.R. period 4s	29	8	Red square daymark on single pile (articulated light).	
23404 K 1062	Pulau Damar-besar.	5° 57.4' S 106° 50.4' E	Fl.(4)W. period 20s fl. 0.3s, ec. 3.2s fl. 0.3s, ec. 3.2s fl. 0.3s, ec. 3.2s fl. 0.3s, ec. 9.2s	62	19	White iron tower; 164.	Obscured by islands 112° - 116°.
	RACON		D(- • •)		20		
23405 K 1063	-Karang Ayer Sedang.	5° 59.3' S 106° 46.6' E	Fl.G. period 3s	39	12	STARBOARD (A) G, beacon, topmark.	
23406 K 1064	-Pulau Nirwana.	6° 01.9' S 106° 51.0' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	43	12	Green beacon, triangular daymark, point up; 33.	
23407 K 1065	Karang Jalan.	6° 02.3' S 106° 46.5' E	Fl.(2)W. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	36	10	ISOLATED DANGER BRB, beacon, topmark.	

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INDONESIA (JAWA-ADJACENT ISLANDS)							
23407.5 <i>K 1066</i>	-Karang Pasir.	6° 03.9' S 106° 49.4' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	39 12	12	White fiberglass beacon; 33.	Radar reflector.
23407.7 <i>K 1066.2</i>	Pulau Puteri.	6° 04.1' S 106° 51.4' E	Fl.R. period 2s fl. 0.5s, ec. 1.5s	43 13	12	Red square daymark on red fiberglass tower.	
23407.8 <i>K 1066.4</i>	Karang Lamteri.	6° 04.5' S 106° 49.9' E	Fl.G. period 2s fl. 0.5s, ec. 1.5s	43 13	12	Green beacon.	
23408 <i>K 1069</i>	Sundra Kelapa, E. side.	6° 05.5' S 106° 48.2' E	Fl.(2)R. period 6s fl. 0.3s, ec. 1s fl. 0.3s, ec. 4.4s	26 8	6	Red beacon.	
23412 <i>K 1069.4</i>	-W. side.	6° 05.5' S 106° 48.1' E	Fl.(2)G. period 6s fl. 0.3s, ec. 1s fl. 0.3s, ec. 4.4s	26 8	6	Green beacon.	
23416 <i>K 1068.5</i>	Jakarta, W. mole.	6° 06.3' S 106° 48.3' E	Fl.R. period 3s fl. 1s, ec. 2s	56 17	5	White stone tower; 52.	
23416.1 <i>K 1070</i>	Muara Karang.	6° 06.5' S 106° 47.2' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	56 17	14	White beacon.	Radar reflector.
23416.2 <i>K 1070.3</i>	-Entrance, W.	6° 06.0' S 106° 47.2' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	39 12	10	STARBOARD (A) G, beacon, topmark.	Radar reflector.
23416.3 <i>K 1070.4</i>	--E.	6° 06.0' S 106° 47.3' E	Fl.R. period 2s fl. 0.5s, ec. 1.5s	39 12	10	PORT (A) R, beacon, topmark.	Radar reflector.
23416.4 <i>K 1070.1</i>	-Inner, W.	6° 06.3' S 106° 47.2' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	33 10	8	STARBOARD (A) G, beacon, topmark.	Radar reflector.
23416.5 <i>K 1070.2</i>	--E.	6° 06.3' S 106° 47.2' E	Fl.R. period 4s	33 10	8	PORT (A) R, beacon, topmark.	Radar reflector.
23417 <i>K 1072.7</i>	-Boat entrance, N. side.	6° 06.9' S 106° 48.5' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	33 10	9	Green beacon.	
23417.1 <i>K 1072.8</i>	--S. side.	6° 06.9' S 106° 48.6' E	Fl.R. period 6s fl. 0.6s, ec. 5.4s	33 10	9	Red fiberglass beacon, red square daymark.	
23418 <i>K 1072.85</i>	Marina Ancol, W.	6° 07.0' S 106° 49.7' E	Fl.R. period 4s fl. 1s, ec. 3s	23 7	6	Red beacon, red square daymark.	
23418.1 <i>K 1072.86</i>	-E.	6° 07.0' S 106° 49.7' E	Fl.G. period 5s fl. 1s, ec. 4s	23 7	6	Green beacon, green triangular daymark.	
23420 <i>K 1068</i>	Jakarta Harbor.	6° 07.3' S 106° 48.6' E	Fl.(3)W. period 12.5s	69 21	11	Beacon; 62.	
23422 <i>K 1072.9</i>	Pipeline.	6° 06.1' S 106° 51.4' E	Fl.Y. period 3s fl. 1s, ec. 2s	23 7	11	SPECIAL Y, beacon, topmark.	Radar reflector.
TANJUNGPRIOK:							
23423.2 <i>K 1073.2</i>	--Entrance, W.	6° 06.4' S 106° 51.9' E	Fl.G. period 4s fl. 1s, ec. 3s	20 6	5	STARBOARD (A) G, beacon, topmark.	

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INDONESIA (JAWA-ADJACENT ISLANDS)							
23423.4 <i>K 1073.21</i>	--E.	6° 06.4' S 106° 52.0' E	Fl.R. period 3s	20 6	5	PORT (A) R, beacon, topmark.	
23428 <i>K 1073.5</i>	-Inner Harbor.	6° 05.8' S 106° 52.9' E	Fl.W. period 10s fl. 1s, ec. 9s	151 46	18	White metal framework tower; 131.	Visible 090° -210° .
	RACON		W(• --)				
23432 <i>K 1074</i>	-W. mole, head.	6° 04.8' S 106° 52.8' E	Fl.G. period 5s fl. 1s, ec. 4s	72 22	12	Green beacon, triangular daymark.	
23436 <i>K 1076</i>	-E. mole, head.	6° 04.8' S 106° 53.0' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s	72 22	12	Red fiberglass tower, red square daymark; 39.	
23437 <i>F 1076.5</i>	-Channel.	6° 05.7' S 106° 52.7' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	26 8	5	PORT (A) R, beacon, topmark.	
23440 <i>K 1076.4</i>	-W. elbow, E. mole.	6° 05.7' S 106° 53.2' E	Fl.R. period 3s fl. 1s, ec. 2s	20 6	5	Iron column; 13.	
23444 <i>K 1076.9</i>	-E. elbow, E. mole.	6° 05.7' S 106° 53.7' E	Fl.R. period 3s	33 10	12	Red beacon.	
23460 <i>K 1084</i>	Pulau Rakit.	5° 56.5' S 108° 22.7' E	Fl.W. period 15s fl. 0.5s, ec. 14.5s	178 54	20	Black and white iron framework tower; 164.	
23464	<i>Permanent Export SBM.</i>	6° 16.0' S 108° 28.0' E	Fl.W. period 8s fl. 0.5s, ec. 7.5s			Mooring buoy.	Radar reflector.
			Fl.G. period 3s fl. 0.5s, ec. 2.5s				
23468 <i>K 1086</i>	Tanjung Idramuyu Balongan.	6° 20.0' S 108° 23.0' E	Fl.(2)W. period 10s fl. 0.5s, ec. 3s fl. 0.5s, ec. 6s			White beacon, white daymark.	
CIREBON:							
23472 <i>K 1090</i>	-E. of Tanah Reef.	6° 31.6' S 108° 41.0' E	Fl.(2)W. period 5s	46 14	12	White beacon.	
23474 <i>K 1091.1</i>	-E. of Kali Kasunean.	6° 43.6' S 108° 35.4' E	Fl.(2)R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	20 6	4	PORT (A) R, beacon, topmark.	
23474.1 <i>K 1091.11</i>	--SW.	6° 43.7' S 108° 35.3' E	Fl.(2)G. period 6s	20 6	4	STARBOARD (A) G, beacon, topmark.	
23475 <i>K 1091.12</i>	-S. of Kali Kasunean.	6° 44.0' S 108° 34.9' E	Fl.W. period 5s	39 12	6	White beacon.	Radar reflector.
23476 <i>K 1092</i>	-Cirebon.	6° 42.9' S 108° 34.3' E	Fl.(3)W. period 20s fl. 0.5s, ec. 3.5s fl. 0.5s, ec. 3.5s fl. 0.5s, ec. 11.5s	101 31	16	White metal framework tower; 98.	
23480 <i>K 1092.5</i>	-Cirebon Range, front.	6° 42.0' S 108° 34.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	39 12	10	Beacon, triangular daymark.	
23484 <i>K 1092.51</i>	--Rear, 600 meters 258° from front.	6° 42.4' S 108° 34.1' E	Q.(9)W. period 15s	61 19	13	Beacon, triangular daymark, point down; 56.	

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INDONESIA (JAWA-ADJACENT ISLANDS)							
23488 <i>K 1093</i>	-E. mole, head.	6° 42.4' S 108° 34.7' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	30 9	10	Red metal framework tower, red square daymark; 23.	
23492 <i>K 1095</i>	-W. mole, head.	6° 42.3' S 108° 34.7' E	Fl.G. period 5s	29 9	4	White metal framework structure; 23.	
23494 <i>K 1095.5</i>	--Elbow.	6° 42.5' S 108° 34.5' E	FR.		2		Aero.FR. 63m 10M on mast 1.3 miles NW.
23500 <i>K 1099</i>	-Tg. Sanggarag.	6° 45.0' S 108° 49.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	36 11	6	White beacon; 33.	
23502 <i>K 1101</i>	Ujung Brebes.	6° 46.0' S 109° 00.7' E	Fl.W. period 4s	72 22	12	White metal framework structure; 65.	
23504 <i>K 1105</i>	Rede Tegal.	6° 51.0' S 109° 08.3' E	Iso.W. period 10s	105 32	15	White metal framework tower; 98.	
23508 <i>K 1106</i>	-E. side of harbor.	6° 51.0' S 109° 08.2' E	Fl.Y. period 3s	62 19	6	White metal framework tower; 56.	
23512 <i>K 1108</i>	-W. mole, head.	6° 50.7' S 109° 08.1' E	Fl.G. period 5s	43 13	6	Green framework tower; 39.	
23516 <i>K 1112</i>	-E. mole, head.	6° 50.7' S 109° 08.2' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	43 13	6	PORT (A) R, beacon, topmark.	
23517 <i>K 1110</i>	--E. mole.	6° 50.9' S 109° 08.2' E	Fl.R. period 7.5s	33 10	6	Red metal framework tower; 30.	
23520 <i>K 1102</i>	Karang Jeruk.	6° 49.0' S 109° 12.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	52 16	12	White metal framework tower.	
PEKALONGAN:							
23524 <i>K 1124</i>	-W. mole, head.	6° 51.4' S 109° 41.5' E	Fl.G. period 6s	16 5	3	Metal mast.	
23528 <i>K 1126</i>	-E. mole, head.	6° 51.3' S 109° 41.6' E	Fl.R. period 6s	16 5	3	Metal mast.	
23532 <i>K 1122</i>	-Pekalongan.	6° 51.0' S 109° 41.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	46 14	10	White iron framework structure; 46.	
23538 <i>K 1120</i>	Karang Bapang.	6° 34.3' S 109° 50.0' E	Fl.(2)W. period 5s	46 14	10	ISOLATED DANGER BRB, beacon, topmark.	
23539 <i>K 1128</i>	Tanjung Celong.	6° 54.3' S 110° 02.5' E	Fl.W. period 4s	99 30	20	White beacon.	
23542 <i>K 1130</i>	Kendai.	6° 55.8' S 110° 18.5' E	Fl.W. period 2s	52 16	7		
SEMARANG:							
23544	-SBM.	6° 53.3' S 110° 25.7' E	Iso.R. period 10s			Yellow buoy.	
23552 <i>K 1133</i>	-Range, front.	6° 57.0' S 110° 25.3' E	Fl.W. period 3s	52 16	11	Mast, triangular daymark, point up.	
23556 <i>K 1133.1</i>	--Rear, 600 meters 176° from front.	6° 57.4' S 110° 25.3' E	Fl.W. period 6s	75 23	11	Mast, white triangular daymark.	
23557 <i>K 1133.3</i>	-E. breakwater, head.	6° 55.4' S 110° 25.4' E	Fl.R. period 10s	46 14	10	Red beacon.	

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INDONESIA (JAWA-ADJACENT ISLANDS)							
23558 K 1134	-W. outer breakwater, head.	6° 55.1' S 110° 25.0' E	Fl.G. period 10s	46 14	10	Green beacon.	Light shown from S. end.
23559 K 1135	-W. inner breakwater, head.	6° 56.2' S 110° 25.1' E	Fl.G. period 5s	13 4	4	White metal framework tower; 26.	
23559.1 K 1136	--Middle.	6° 56.5' S 110° 25.1' E	Fl.W. period 3s	13 4	4	Metal framework tower; 10.	
23560 K 1132	Tanjung Emmas.	6° 57.2' S 110° 25.1' E	Fl.(4)W. period 20s fl. 0.3s, ec. 3.2s fl. 0.3s, ec. 3.2s fl. 0.3s, ec. 3.2s fl. 0.3s, ec. 9.2s	107 33	16	White iron tower; 98.	
KEPULAUAN KARIMUNJAWA:							
23568 K 1140	-P Njamuk.	5° 49.0' S 110° 11.0' E	Fl.(3)W. period 15s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 8s	99 30	16	Framework tower; 99.	
23568.5 K 1140.2	-Karang Kapal.	5° 54.0' S 110° 13.4' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	43 13	10	White beacon.	
23569 K 1141	-Pulau Karimunjawa, Tg. Pudak.	5° 53.2' S 110° 26.8' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	82 25	12	White beacon.	
23570 K 1140.5	-Pulau Genting.	5° 50.6' S 110° 36.3' E	Fl.W. period 4s	164 50	20	White beacon.	
23571 K 1140.4	-Pulau Sintok.	5° 46.8' S 110° 30.6' E	Fl.Y. period 3s	39 12	6	SPECIAL Y, beacon, topmark.	
23571.5 K 1140.3	-Pulau Bengkoang.	5° 43.9' S 110° 24.5' E	Fl.Y. period 4s	39 12	6	SPECIAL Y, beacon, topmark.	
23572 K 1144	Pulau Mondoliko.	6° 23.0' S 110° 55.5' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	283 86	40	White skeleton iron tower; 52.	Visible 069° -287°.
RACON				K(- • -)			
23572.5 K 1144.1	Tg Bugel.	6° 27.4' S 111° 02.9' E	Fl.W. period 4s	102 31	20		
23572.8 K 1144.2	Juana Harbor.	6° 39.9' S 111° 10.2' E	Fl.W. period 6s	46 14	10	White beacon.	
23573 K 1144.3	Juana Channel, E. side.	6° 39.1' S 111° 10.1' E	Fl.R. period 3s	16 5	4	PORT (A) R, beacon, topmark.	Channel marked by lighted beacons.
23573.1 K 1144.35	-W. side.	6° 39.1' S 111° 09.9' E	Fl.G. period 3s	16 5	4	STARBOARD (A) G, beacon, topmark.	
23573.3 K 1144.48	Juana Outer Harbor.	6° 40.0' S 111° 11.3' E	Fl.W. period 2s fl. 0.5s, ec. 1.5s	34 10	12	White beacon; 23.	
23573.5 K 1144.6	Penowo Reef.	6° 38.8' S 111° 16.2' E	Fl.W. period 4s	46 14	7	White beacon.	
23573.53 K 1144.65	Gondoh.	6° 39.0' S 111° 17.5' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	34 10	12	White beacon; 23.	
23573.57 K 1144.68	Karang Seliro.	6° 41.3' S 111° 19.3' E	Fl.W. period 4s fl. 1s, ec. 3s	28 8	12	White beacon; 23.	

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23573.6 <i>K 1144.8</i>	Pulau Gurian.	6° 41.5' S 111° 21.7' E	Fl.W. period 2.5s fl. 0.5s, ec. 2s	46 14	10	White beacon.	
23574 <i>K 1145</i>	Tg. Awarawar.	6° 45.8' S 111° 57.2' E	Fl.W. period 10s	230 70	22		Tuban Oil Terminal moored storage tanker 12.3 miles ENE.
23580 <i>K 1139</i>	Djapara.	6° 35.0' S 110° 39.5' E	Fl.W. period 3s fl. 1s, ec. 2s	56 17	8	White concrete; 49.	
23584 <i>K 1138</i>	Pulau Panjang.	6° 34.5' S 110° 37.8' E	Fl.(3)W. period 20s	72 22	18	White beacon.	
23586 <i>K 1145.5</i>	Tambakbojo.	6° 47.4' S 111° 53.9' E	Fl.W. period 3s	98 30	15		
PULAU BAWEAN:							
23588 <i>K 1150</i>	-Sangkapoera.	5° 51.3' S 112° 39.2' E	Fl.W. period 5s fl. 1s, ec. 4s	66 20	12	White metal framework tower; 36.	
23589 <i>K 1151</i>	-Range, front.	5° 50.9' S 112° 38.3' E	Fl.W. period 1.5s	16 5	7	White beacon, white triangular daymark, point up.	
23589.4 <i>K 1151.1</i>	--Rear, 0.65 mile 000° from front.	5° 50.3' S 112° 38.0' E	Fl.W. period 3s	230 70	13	White beacon, white triangular daymark, point down.	
23590 <i>K 1149</i>	--On rock.	5° 51.8' S 112° 38.2' E	Fl.(2)G. period 8s	43 13	12		
23591 <i>K 1153</i>	-Tanjung Mantegi.	5° 43.5' S 112° 40.9' E	Fl.W. period 7s	26 8	24	White beacon.	
23591.5 <i>K 1152</i>	-Karang Gosong.	5° 46.2' S 112° 50.6' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	46 14	11	White beacon.	
23592 <i>K 1424</i>	Masalembu-Besar.	5° 33.2' S 114° 26.6' E	Fl.(3)W. period 21.5s	656 200	20	White metal framework tower; 131.	
	RACON		M(— —)		24		
23593 <i>K 1424.5</i>	-SW. side of island.	5° 34.8' S 114° 24.8' E	Fl.R. period 6s	46 14	13		
23604 <i>K 1426</i>	Keramaian.	5° 02.0' S 114° 37.0' E	Fl.W. period 5s	52 16	8	White beacon.	
SURABAYA (WESTERN CHANNEL):							
23608 <i>K 1157</i>	-Ujung Pangkah.	6° 50.6' S 112° 32.8' E	Fl.W. period 6s	108 33	16	White beacon.	
23612 <i>K 1162</i>	-Karang Djamuang.	6° 55.6' S 112° 43.8' E	Fl.W. period 4s	135 41	41	White metal framework tower; 131.	Radiobeacon.
	-RACON		K(— • —)		12		(3 & 10cm)
23616 <i>K 1158</i>	-Mapia entrance Range, front.	6° 59.3' S 112° 42.0' E	Fl.W. period 3s	49 15	11	White square concrete tower, red bands, on platform; 46.	
23620 <i>K 1158.1</i>	--Tanjung Piring, middle, 5.1 kilometers 200° from front.	7° 02.0' S 112° 41.0' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	46 14	7	White iron framework; 46.	Visible 194° -204°.
23624 <i>K 1158.2</i>	--- Sembilangan , Slimpil Point, rear, 200° from front.	7° 03.6' S 112° 40.4' E	Fl.(2)W. period 10s fl. 1s, ec. 1s fl. 1s, ec. 7s	174 53	19	White round concrete tower, black and white top; 164.	

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INDONESIA (JAWA-ADJACENT ISLANDS)							
23625 <i>K 1158.55</i>	-Gresik, pier.	7° 06.7' S 112° 39.2' E	Fl.W. period 5s fl. 1s, ec. 4s	52 16	8	White beacon.	
23625.2 <i>K 1158.59</i>	--N.	7° 06.7' S 112° 39.2' E	Fl.(4)Y. period 15s fl. 0.3s, ec. 0.7s fl. 0.3s, ec. 0.7s fl. 0.3s, ec. 0.7s fl. 0.4s, ec. 11.6s	20 6	7	SPECIAL Y, beacon, topmark.	
23625.4 <i>K 1158.51</i>	--S. of entrance to Kali Miring.	7° 06.6' S 112° 39.2' E	Fl.(4)Y. period 15s fl. 0.3s, ec. 0.7s fl. 0.3s, ec. 0.7s fl. 0.3s, ec. 0.7s fl. 0.4s, ec. 11.6s	20 6	7	SPECIAL Y, beacon, topmark.	
23625.8 <i>K 1158.85</i>	-Tepen, NE.	7° 07.9' S 112° 39.3' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	49 15	6	White beacon.	
23626 <i>K 1159</i>	-Pojok.	7° 08.4' S 112° 39.3' E	Fl.Y. period 5s	23 7	5	SPECIAL Y, beacon, topmark.	Marks pipeline with Special beacons 250 meters and 760 meters SSE.
23627 <i>K 1160</i>	-Tanjungan.	7° 09.3' S 112° 41.1' E	Fl.Y. period 4s	43 13	5	SPECIAL Y, beacon, topmark.	Radar reflector.
23628 <i>K 1168</i>	-Pisang.	7° 11.2' S 112° 41.2' E	Fl.G. period 5s	39 12	10	PORT (A) G, beacon, topmark.	Visible 138° -338° .
SURABAYA:							
23632 <i>K 1174</i>	-Karang Queen Olga Reef.	7° 10.9' S 112° 43.9' E	Fl.R. period 10s	23 7	7	PORT (A) R, beacon.	
23636 <i>K 1182</i>	-Range, W. molehead of Naval Harbor, front.	7° 11.7' S 112° 44.2' E	Fl.G. period 3s	19 6	4	Green beacon.	
23640 <i>K 1182.1</i>	--Rear, 90 meters 151° from front.	7° 11.8' S 112° 44.2' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	29 9	4	Green metal framework structure.	In range indicate the W. limit of prohibited anchorage.
23644 <i>K 1183</i>	-Range, E. molehead of Naval Harbor, front.	7° 12.0' S 112° 44.0' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s	19 6	4	Red beacon.	
23648 <i>K 1183.1</i>	--Rear, 76 meters 172° from front.	7° 11.8' S 112° 44.3' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s	29 9	4	Red beacon.	In range indicate E. limit of prohibited anchorage.
23652 <i>K 1176</i>	-E. side of entrance to new harbor, NW. corner of N. pier.	7° 12.0' S 112° 43.0' E	F.R.	59 18	10	Corner of warehouse.	
23656 <i>K 1178</i>	-W. side of entrance to new harbor.	7° 12.0' S 112° 43.0' E	F.G.	42 13	7	Iron post.	
23660 <i>K 1179</i>	-Holland Pier, NW. angle.	7° 12.0' S 112° 44.0' E	F.R.	42 13	7	Roof of warehouse.	
23664 <i>K 1179.2</i>	--NE. angle.	7° 12.0' S 112° 44.0' E	F.G.	42 13	7	Iron post.	
23668 <i>K 1188</i>	-Kessek.	7° 10.0' S 112° 46.0' E	Fl.(3)W. period 12s	75 23	10	White beacon.	
23670 <i>K 1197</i>	Karang Manila.	7° 21.7' S 113° 10.1' E	Fl.(2)W. period 12s	39 12	12	ISOLATED DANGER BRB, beacon, topmark.	
23672 <i>K 1198</i>	Sirumpa Rock.	7° 25.0' S 113° 04.0' E	Fl.(2)W. period 10s	52 16	9	ISOLATED DANGER BRB, beacon, topmark.	

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INDONESIA (JAWA-ADJACENT ISLANDS)							
SELAT MADURA:							
23676 K 1200	-Karang Koko (Zwaantjes Reef.).	7° 28.0' S 113° 07.0' E	Fl.(3)W. period 13s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 8.5s	59 18	12	White iron tower; 52.	
23684 K 1204	-Pasuruan.	7° 37.6' S 112° 55.2' E	Fl.W. period 5s	46 14	15	White mast; 39.	
23688 K 1210	-Probolinggo.	7° 44.5' S 113° 13.4' E	Fl.W. period 7s	75 23	14	White beacon; 52.	
23689 K 1211	--Off shore.	7° 43.3' S 113° 12.8' E	Fl.W. period 3s	75 23	9	White beacon.	
23692 K 1212	--W. mole, head.	7° 43.3' S 113° 13.0' E	Fl.G. period 5s	49 15	12	Green metal framework tower; 46.	During some months of the year in Probolinggo and Besuki, many sugar factories use electric lights which are visible from great distances.
23696 K 1212.2	--E. mole, head.	7° 43.3' S 113° 13.0' E	Fl.R. period 6s	46 14	13	Red beacon.	
23700 K 1213	--Kar Keranji.	7° 42.5' S 113° 35.0' E	Fl.W. period 5s	49 15	11	White beacon.	
23704 K 1214	-Besuki, near river entrance.	7° 44.0' S 113° 41.0' E	Fl.W. period 4s	49 15	5	Black framework tower, white bands.	
23708 K 1220	-Pancarukan.	7° 42.0' S 113° 56.0' E	Fl.W. period 3s fl. 1s, ec. 2s	49 15	6	Iron framework tower, black and white bands; 46.	Visible 104° -228° .
23709 K 1218	--Pancarukan, N. of Klatakan.	7° 42.0' S 113° 55.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	33 10	7	White iron framework structure; 26.	
23710 K 1222	Tg. Paciman.	7° 36.7' S 114° 02.4' E	Fl.W. period 5s	141 43	17		
23712 K 1223	Karang Mas.	7° 40.7' S 114° 26.3' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	72 22	11	ISOLATED DANGER BRB, beacon, topmark; 52.	
23714 K 1225	-Camplong.	7° 13.2' S 113° 19.2' E	Fl.(4)W. period 20s	69 21	16		
23715 K 1225.5	--E.	7° 13.0' S 113° 22.0' E	Fl.W. period 5s fl. 1s, ec. 4s	79 24	12	White beacon.	
23716 K 1226	-Gili Dua.	7° 14.9' S 113° 40.0' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	65 20	13	White beacon.	Radar reflector.
23718 K 1228	Giliraja.	7° 14.1' S 113° 47.9' E	Fl.W. period 6s	138 42	18	White beacon.	
23720 K 1230	-Bili Genteng.	7° 11.5' S 113° 53.0' E	Fl.(3)W. period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9.5s	49 15	12	White beacon; 26.	Obscured behind Gili Genteng and Gili Raja.
23724 K 1232	-Madura Tanjung.	7° 08.0' S 113° 54.0' E	Fl.W. period 3s fl. 1s, ec. 2s	59 18	12	Framework structure, red and white bands; 43.	Visible 194° -104° . Obscured by the point N. of Tanjung of the bearing 293° and by various islands.

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INDONESIA (JAWA-ADJACENT ISLANDS)							
23728 K 1236	-Kalianget Range, front.	7° 03.2' S 113° 56.1' E	F.G.	33 10	4	White iron framework structure; 26.	Obscured behind Tg. Talangu.
23732 K 1236.1	--Rear, 146 meters 029° from front.	7° 03.1' S 113° 56.8' E	F.R.	59 18	4	White iron framework structure; 43.	Obscured by trees on bearing 355°.
23736 K 1238	-Berths Range, front.	7° 03.4' S 113° 56.6' E	Fl.W. period 6s	36 11	7	White metal framework structure; 26.	
23740 K 1238.1	--Rear, 100 meters 250° from front.	7° 03.4' S 113° 56.5' E	Fl.W. period 3s	39 12	7	White metal framework structure; 36.	
23742 K 1238.5	Karang Tembaga.	7° 06.6' S 114° 09.1' E	Fl.(3)W. period 10s	46 14	12	E. CARDINAL BYB, beacon, topmark.	
23744 K 1240	Pulau Sapudi.	7° 05.7' S 114° 16.2' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	194 59	20	White octagonal framework tower; 194.	Obscured 230° -322°.
23746 K 1241	-Gayam.	7° 09.7' S 114° 19.9' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	49 15	12	White pipe beacon; 39.	
23748 K 1242	--Pier, head.	7° 10.0' S 114° 19.5' E	Fl.R. period 7s fl. 1s, ec. 6s	49 15	6	Wooden mast; 46.	
23750 K 1243	Batu Putih.	6° 52.2' S 113° 56.3' E	Fl.(2)W. period 15s	174 53	19		Visible 098° -284°.
23751 K 1243.5	Sapulu.	6° 53.4' S 113° 06.8' E	Fl.Y. period 2s		10	SPECIAL Y, beacon, topmark.	Radar reflector.
23752 K 1244	Punta Kamudi.	7° 06.2' S 114° 47.6' E	Fl.W. period 5s	57 17	16	White beacon.	
23754 K 1244.5	Karang Takat.	7° 01.8' S 114° 57.6' E	Fl.W. period 2s fl. 0.5s, ec. 1.5s	46 14	13	White beacon.	
23756 K 1245	Ketapang Bay, Patokanan.	6° 51.3' S 115° 13.6' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	52 16	12	White beacon.	
23760 K 1246	Kalisangka.	6° 51.0' S 115° 15.0' E	F.R.	22 7		White pole; 56.	
23762	P. Mamburit.	6° 50.6' S 115° 13.1' E	Fl.W. period 5s	148 45	21		
23764 K 1247	Pulau Sakala.	6° 56.0' S 116° 15.0' E	Fl.(3)W. period 20s	151 46	20	White metal framework tower; 131.	
23768 K 1246.5	Pulau Sepanjang.	7° 11.6' S 115° 53.1' E	Fl.W. period 4s	144 44	17	White structure.	
23770 K 1248.5	Pulau Sesil.	7° 05.9' S 115° 44.1' E	Fl.(2)W. period 8s	33 10	12	Beacon.	
23771 K 1246.3	Pulau Saibus.	7° 04.0' S 115° 42.5' E	Fl.W. period 6s	72 22	12	White beacon.	
23773 K 1224	Tanjung Candiban.	7° 53.3' S 114° 27.7' E	Fl.W. period 3s	197 60	18	White beacon.	
23774 K 1249	Pulau Tabuan.	8° 02.2' S 114° 27.6' E	Fl.W. period 5s fl. 1s, ec. 4s	56 17	11		
23775 K 1282.5	Pulau Menjangan.	8° 05.6' S 114° 31.6' E	Fl.Y. period 3s	49 15	6	SPECIAL Y, beacon, topmark.	
23776 K 1250	-Tanjung Bansering Range, front.	8° 04.0' S 114° 26.0' E	Fl.W. period 3s	49 15	9	White iron framework, red triangular daymark; 42.	Visible 215° -033°. Entering Bali Strait from the S.

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(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDONESIA (JAWA-ADJACENT ISLANDS)							
23780 K 1250.1	--Rear, 550 meters from front.	005° 08' 03.8" S 114° 25.6' E	Fl.W. period 4s	92 28	7	White iron framework tower, white triangular daymark, point down; 65.	Visible 001° -011° .
23784 K 1256	-Tanjung Pasir.	8° 05.8' S 114° 26.1' E	Fl.W. period 5s	43 13	8	White iron framework structure; 26.	Visible 007° -247° . Obscured over a small arc behind Duiven Island.
23788 K 1257	-Meneng.	8° 08.0' S 114° 24.0' E	F.R.				
23789 K 1257.3	--S.	8° 08.1' S 114° 24.0' E	Q.(4)W. period 8s	33 10			
23791 K 1257.5	-Gilimanuk, entrance.	8° 09.2' S 114° 26.0' E	Fl.R. period 4s	39 12	8		
23792 K 1258	--S.	8° 09.7' S 114° 26.2' E	Fl.W.				
23792.5 K 1258.1	--Off shore.	8° 09.5' S 114° 26.2' E	Fl.Y. period 3s	39 12	8	Yellow beacon.	
23796 K 1258.2	-Banyuwang, AVIATION LIGHT.	8° 12.8' S 114° 22.6' E	F.R.	131 40	7	Radio mast; 131.	
23804 K 1282	-Tanjung Pengambengan.	8° 24.0' S 114° 36.0' E	Fl.W. period 5s fl. 1s, ec. 4s	141 43	43	White iron framework structure; 108.	Obscured bearing 139° by Tg. Pabocanaw.
23806 K 1261	-Tanjung Sembulungan.	8° 27.3' S 114° 23.6' E	Fl.W. period 3s	62 19	12	White beacon.	Radar reflector.
23821 K 1261.5	-Bedadung.	8° 22.8' S 113° 28.1' E	Fl.W. period 4s	138 42	18		
23821.2 K 1262	Sempu.	8° 25.3' S 112° 42.9' E	Fl.W. period 4s	75 23	12	Beacon.	
23821.3 K 1262.5	Teluk Segoro Wegi.	8° 22.3' S 111° 43.4' E	Fl.W. period 3s	167 51	12		
23821.5 K 1262.8	Teluk Pacitan.	8° 14.7' S 111° 05.7' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	164 50	12	White beacon.	
23821.6 K 1263.9	Tg. Sadeng.	8° 11.5' S 110° 47.5' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	33 10	12	White beacon.	
23821.61 K 1263	-Range, front.	8° 11.7' S 110° 47.6' E	Iso.W. period 4s	75 23	12	Beacon, white triangle, point up.	
23821.62 K 1263.1	--Rear, 35 meters from front.	064° 29' 8° 11.6' S 110° 47.6' E	Iso.W. period 2s	82 25	12	Beacon, white triangle, point down.	
23821.7 K 1264	Tanjung Gunung Batur.	8° 11.3' S 110° 41.7' E	Fl.W. period 6s	272 83	12	White beacon.	
23821.9 K 1264.5	Kali Opak.	8° 00.0' S 110° 15.5' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	144 44	15	White structure.	
23822 K 1265	Wates.	7° 55.7' S 110° 06.3' E	Fl.W. period 5s	104 32	12		
23822.2 K 1276.5	Ketawang.	7° 50.6' S 109° 52.9' E	Fl.G. period 4s	105 32	12	Green beacon.	
23822.4 K 1276.2	Klirong.	7° 46.8' S 109° 37.9' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	138 42	15	White structure.	
23822.6 K 1276	Tanjung Karang Batu.	7° 46.3' S 109° 25.2' E	Fl.W. period 5s	207 63	12		

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INDONESIA (JAWA-ADJACENT ISLANDS)							
23823 K 1267	Teluk Penyu.	7° 43.5' S 109° 01.3' E	Iso.W. period 4s	55 17	12		
23823.1 K 1267.4	-East.	7° 43.6' S 109° 01.5' E	Fl.G. period 2.5s fl. 0.5s, ec. 2s	39 12	8		
23823.2 K 1267.5	-West.	7° 43.6' S 109° 01.4' E	Fl.R. period 3s fl. 0.7s, ec. 2.3s	39 12	8		
23823.8 F 1267.8	Penyu Bay.	7° 41.3' S 109° 05.5' E	L.Fl.W. period 5s fl. 2s, ec. 3s	49 15	15	White metal framework tower.	
CILACAP INLET:							
23824 K 1268	-Cimiring.	7° 46.9' S 109° 02.5' E	Fl.W. period 5.5s fl. 1.5s, ec. 4s	584 178	30	White stone tower; 105.	
	-RACON		K(- • -)		17		
23828 K 1270.1	-Entrance Range, front.	7° 45.0' S 109° 01.4' E	Q.W.	56 17	8	White tower, white triangular daymark, point up.	
23832 K 1270.11	--Rear, 475 meters 279° from front.	7° 44.9' S 109° 01.2' E	Oc.W. period 4s lt. 3s, ec. 1s	75 23	8	White tower, white triangular daymark, point down.	
23836 K 1272	-Second Range, front.	7° 45.8' S 109° 01.5' E	Iso.W. period 4s	56 17	8	White tower, white triangular daymark, point up.	
23840 K 1272.1	--Rear, 125 meters 245° 40' from front.	7° 45.8' S 109° 01.5' E	Oc.W. period 4s lt. 3s, ec. 1s	69 21	8	White tower, white triangular daymark, point down.	
23842 K 1273.2	-Corner Range, front.	7° 45.8' S 109° 02.2' E	Q.W.	20 6		Yellow structure, white triangular daymark, point up.	
23842.1 K 1273.21	--Rear, 30 meters 096° 30' from front.	7° 45.8' S 109° 02.2' E	Q.W.	30 9		Yellow structure, white triangular daymark, point down.	
23844 K 1274	-Third Range, front, B3.	7° 46.0' S 109° 01.9' E	Q.W.	29 9	8	Beacon, white triangular daymark, point up.	
23848 K 1274.1	--Rear, B4, 89 meters 124° 30' from front.	7° 46.0' S 109° 02.0' E	Q.W.	42 13	11	Beacon, white triangular daymark, point down.	
23852 K 1270	-Teluk Penyu.	7° 44.1' S 109° 01.2' E	Fl.W. period 5s fl. 1.5s, ec. 3.5s	59 18	12	White metal framework tower; 49.	
23856 K 1274.6	-Tanjung Sodong Range, front.	7° 45.0' S 108° 59.0' E	Fl.W. period 2s fl. 0.5s, ec. 1.5s	95 29	7	White triangular daymark, point up; 16.	
23860 K 1274.61	--Rear, 30 meters 180° from front.	7° 44.6' S 108° 59.4' E	Fl.W. period 2s fl. 0.5s, ec. 1.5s	98 30	7	White triangular daymark, point down; 19.	
23864 K 1275.3	-S. end of jetty.	7° 43.9' S 108° 59.3' E	Fl.R. period 2s	16 5	4	PORT (A) R, beacon, topmark.	
23868 K 1275.4	-Jetty, N. head.	7° 43.7' S 108° 59.5' E	Fl.R. period 4s	16 5	4	PORT (A) R, beacon, topmark.	
23869 K 1278.2	Teluk Penanjung, Cikembulan, SE.	7° 41.5' S 108° 39.5' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	39 12	10	White beacon.	
23869.5 K 1278	-Teluk Parigi.	7° 41.1' S 108° 30.4' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	39 12	10	White beacon.	

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INDONESIA (JAWA-ADJACENT ISLANDS)							
23870 K 1277	Legok.	7° 48.4' S 108° 28.3' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	138 42	15	White structure.	
23870.5 K 1277.5	Manuk Island.	7° 49.0' S 108° 18.0' E	Fl.(2)W. period 10s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	164 50	20	Beacon tower; 98.	
23871 K 1279	Teluk Cilauteureum.	7° 39.7' S 107° 40.9' E	Fl.W. period 6s	82 25	12	White beacon.	
23871.5 K 1280	Pelabuhan Ratu.	6° 59.2' S 106° 32.2' E	Fl.W. period 7.5s fl. 0.5s, ec. 7s	105 32	16		

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Section 15

Borneo Including Sarawak, Sabah and Brunei

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MALAYSIA (SARAWAK)							
23872 <i>F 1894</i>	Tanjong Datu.	2° 04.8' N 109° 38.5' E	Fl.W. period 15s	561 171	18	Metal framework tower; 33.	
23876 <i>F 1895.15</i>	Sungai Sematan Range, front.	1° 48.4' N 109° 46.4' E	Fl.W. period 4s	30 9	4	Metal column, white triangular daymark, point up.	
23880 <i>F 1895.151</i>	-Rear, about 127 meters 212° from front.	1° 48.4' N 109° 46.4' E	Fl.W. period 4s	39 12	4	Metal framework tower, white triangular daymark, point down.	Synchronized with front light.
23888 <i>F 1896</i>	Batu Lundu, Batu Mandi.	1° 43.8' N 109° 56.2' E	Fl.(2)W. period 10s	23 7	7	Concrete pile, black and white bands; 15.	
23892 <i>F 1904.45</i>	Kuala Moyan.	1° 35.8' N 110° 34.9' E	Fl.W. period 5s	20 6	4	White triangular daymark, point up.	
23900 <i>F 1896.4</i>	Kuala Sibul Laut.	1° 41.8' N 110° 12.4' E	Fl.W. period 4s	22 7	4	Concrete post.	
23906 <i>F 1896.85</i>	Tg Sipang.	1° 48.3' N 110° 20.1' E	Fl.W. period 7.5s		18		
23908 <i>F 1897</i>	Sungei Butal.	1° 42.0' N 110° 22.0' E	Fl.W. period 2s	19 6	4	White triangle.	
SUNGEI SARAWAK:							
23916 <i>F 1898</i>	-Tanjung Po.	1° 43.5' N 110° 31.4' E	Fl.(2)W. period 10s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 7.3s	430 131	18	Metal pyramidal tower; 49.	Obsc. 116° -132°, partially obscured shore-116°.
23920 <i>F 1900</i>	-Tanjung Embang Range, front.	1° 37.5' N 110° 30.3' E	Iso.W. period 2s	70 21	8	Metal framework tower, yellow stripes, red diamond daymark.	Reserve light F.W.
23924 <i>F 1900.1</i>	--Rear, 762 meters 209° 28' from front.	1° 37.2' N 110° 30.1' E	Oc.W. period 10s	100 30	8	Metal framework tower, yellow stripes, red diamond daymark.	Reserve light F.W.
23928 <i>F 1901</i>	-River entrance Range, front.	1° 37.5' N 110° 26.9' E	Fl.(2)W. period 6s	70 21	8	Metal framework tower, yellow stripes, red diamond daymark.	Reserve light F.W.
23932 <i>F 1901.1</i>	--Rear, about 765 meters 247° 20' from front.	1° 37.3' N 110° 26.6' E	Fl.(2)W. period 6s	100 30	8	Metal framework tower, yellow stripes, red diamond daymark.	Reserve light F.W.
23936 <i>F 1901.4</i>	-No. 1.	1° 39.1' N 110° 29.5' E	Fl.W. period 6s	30 9	9	White tower.	
23940 <i>F 1901.6</i>	-Tg. Batu, No. 2.	1° 37.9' N 110° 27.6' E	Q.G.	30 9	4	White tower; 30.	
23944 <i>F 1902.2</i>	-Tanjung Renard, No. 3.	1° 35.6' N 110° 27.5' E	Q.G.	49 15	4	White tower; 49.	
23952 <i>F 1902.4</i>	-Batu Blat Reach, No. 5.	1° 33.1' N 110° 24.2' E	Q.R.	30 9	4	Red tower; 30.	
-Turnabout Reach:							
23964 <i>F 1902.8</i>	--No. 8.	1° 33.9' N 110° 23.4' E	Q.R.	26 8		Red and white tower.	
-Prima Donna Reach:							
23980 <i>F 1903.4</i>	--North Junction Point, No. 11.	1° 34.7' N 110° 24.1' E	Q.G.	26 8		Black and white framework tower.	

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MALAYSIA (SARAWAK)							
23988 <i>F 1904</i>	--No. 13 Range, front.	1° 34.6' N 110° 22.1' E	Q.W.		30 9	White framework tower.	Intensified 261° -269° .
23992 <i>F 1904.1</i>	--Rear, 36 meters 264° 10' from front.	1° 34.6' N 110° 22.1' E	Q.W.		43 13	White framework tower.	Intensified 261° -269° .
-Horseshoe Reach:							
23996 <i>F 1904.2</i>	--No. 14.	1° 34.6' N 110° 22.1' E	Q.G.		26 8	Black and white framework tower.	
24000 <i>F 1904.3</i>	--No. 15.	1° 34.2' N 110° 22.2' E	Q.G.		23 7	Black and white framework tower.	
24004 <i>F 1904.34</i>	--No. 16.	1° 34.2' N 110° 22.3' E	Fl.R. period 3s		23 7	2 Red framework tower.	
24008 <i>F 1904.4</i>	--No. 17.	1° 34.0' N 110° 22.7' E	Q.R.		26 8	Red and white framework tower.	
24016 <i>F 1904.6</i>	Kuala Semera.	1° 34.0' N 110° 40.0' E	Fl.W. period 3s		20 6	4 White triangular daymark, point down.	
24024 <i>F 1904.75</i>	Kampong Pendam.	1° 30.0' N 110° 44.0' E	Fl.W. period 20s		26 8	4	
24026 <i>F 1904.88</i>	-Pulau Burong.	1° 38.3' N 110° 48.1' E	Fl.W. period 10s			Metal mast; 90.	
24028 <i>F 1904.7</i>	Sungai Sebang.	1° 33.0' N 110° 46.0' E	Fl.W. period 6s		30 9	8 Metal framework tower, white triangular daymark.	
24036 <i>F 1904.8</i>	Sungai Simunjan.	1° 24.0' N 110° 45.0' E	Fl.W. period 6s		21 6	5 Metal framework tower, white triangular daymark.	
24040 <i>F 1904.9</i>	Kuala Tebela.	1° 33.0' N 110° 51.0' E	Fl.W. period 6s		20 6	4 Galvanized mast, white triangular daymark, point up.	
24044 <i>F 1905</i>	Batang Lupar, Kampong Sebuyau.	1° 31.0' N 110° 56.0' E	Fl.R. period 2s		40 12	6 Metal framework tower, white triangular daymark.	
24048 <i>F 1905.7</i>	Kuala Maludam.	1° 40.0' N 111° 01.0' E	Fl.W. period 3s		20 6	4 White triangular daymark, point down.	
24052 <i>F 1905.8</i>	Kuala Samarang.	1° 41.0' N 111° 06.0' E	Fl.R. period 4s		20 6	3 White triangular daymark, point down.	
24056 <i>F 1905.6</i>	Tg. Batang Marau.	1° 45.4' N 111° 05.0' E	Fl.W. period 4s		74 23	10 Metal framework tower, white triangular daymark.	
24060 <i>F 1909.6</i>	Kuala Nyabor (Kuala Grigat).	2° 03.0' N 111° 11.0' E	Fl.W. period 4s		27 8	3 Mast, white triangular daymark.	
24064	<i>Batang Rajang Approach Buoy.</i>	2° 10.0' N 111° 04.0' E	Fl.(2)W. period 10s			Red and white striped buoy.	Radar reflector.
24068 <i>F 1908</i>	Tanjong Jerijeh.	2° 10.0' N 111° 10.0' E	Fl.(3)W. period 15s fl. 0.2s, ec. 1.6s fl. 0.2s, ec. 1.6s fl. 0.2s, ec. 11.2s		125 38	23 White metal framework tower, rectangular daymark; 120.	
24072 <i>F 1910</i>	-Karang Jerijeh.	2° 08.0' N 111° 11.0' E	Q.R.		32 10	2 Tripod, white slats; 32.	
24076 <i>F 1909.4</i>	Tg. Selalang.	2° 06.0' N 111° 12.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s		53 16	6 White metal framework tower; 55.	
24078 <i>F 1909.1</i>	Wong Sands.	2° 06.3' N 111° 08.6' E	Fl.W. period 7s			18	
RACON			R(• - •)				
24084 <i>F 1913</i>	Kuala Belawi.	2° 14.0' N 111° 11.0' E	Fl.W. period 4s		20 6	4 White triangular daymark, point down.	
24088 <i>F 1914</i>	Tg. Sedi.	2° 26.1' N 111° 17.8' E	Fl.W. period 5s		70 21	9 Metal framework tower, white diamond daymark; 59.	

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MALAYSIA (SARAWAK)							
24090 F 1914.2	Tg. Pasir.	2° 26.3' N 111° 15.1' E	Fl.W. period 2s				
24093 F 1913.9	Kual Paloh.	2° 29.6' N 111° 11.4' E	Fl.(4)W. period 20s		16	Beacon.	
24096 F 1915	Kampong Betanak.	2° 38.0' N 111° 17.0' E	Fl.W. period 15s	20 6	4		
24100 F 1915.5	Kampong Penipak.	2° 42.0' N 111° 17.0' E	Fl.W. period 20s	20 6	4		
24104 F 1916	Tanjung Sirik.	2° 46.8' N 111° 19.2' E	Fl.W. period 10s fl. 0.3s, ec. 9.7s	125 38	23	Steel framework tower; 120.	Difficult to distinguish.
	RACON		K(- • -)				
24108 F 1916.4	Bruit.	2° 42.0' N 111° 23.0' E	Q.W.	20 6	5	Mast, triangular daymark.	
24112 F 1917	Tanjong Jol.	2° 41.9' N 111° 25.7' E	Fl.(3)W. period 15s	30 9	4		
24116 F 1917.4	Kuala Matu.	2° 42.7' N 111° 28.0' E	Fl.(2)W. period 10s	21 6	5	Metal mast, white triangular daymark; 20.	
24120.5 F 1918.4	Tanjang Duga.	2° 50.2' N 111° 40.3' E	Q.W.	20 6	5	Beacon, white triangular daymark.	
24121 F 1918.2	Kuala Igan Range, front.	2° 51.1' N 111° 38.4' E	Fl.W. period 3s	33 10	5		
24122 F 1918.21	--Rear, 0.1 mile 187° 44' from front.	2° 50.9' N 111° 38.4' E	Fl.W. period 3s	47 14	5		
24124 F 1920	Kuala Oya, Entrance, W. side.	2° 52.0' N 111° 52.0' E	Fl.W. period 6s	30 9	5	Mast, white triangular daymark; 20.	
24125 F 1920.2	-Beacon.	2° 53.2' N 111° 52.2' E	Fl.W. period 7s		18		
24134 F 1922.4	Kuala Mukah Range, front.	2° 54.5' N 112° 05.4' E	Q.W.	26 8	9	Beacon, triangular daymark, point up.	
24134.1 F 1922.41	-Rear, 180° 06' from front.	2° 54.1' N 112° 05.7' E	Q.W.	49 15	9	Beacon, triangular daymark, point down.	
24135 F 1922.5	-Beacon.	2° 55.4' N 112° 05.5' E	Fl.(2)W. period 12s		17		
24135.5 F 9516.31	D35 Q-A Platform RACON.	3° 45.8' N 112° 03.8' E	D(- • •)				
24136 F 1923.4	Batang Balingian Range, front.	3° 00.0' N 112° 35.0' E	Fl.W. period 2s	30 9	8	White metal framework tower, white triangular daymark; 40.	
24140 F 1923.41	-Rear, 105 meters 160° from front.	3° 00.9' N 112° 35.0' E	Fl.W. period 2s	50 15	8	White metal framework tower, white triangular daymark; 59.	
24141 F 9526.3	Central Luconia Gas Field Platform RACON.	4° 20.1' N 112° 40.7' E	L(• - • •)				
24142 F 1923.6	Kuala Tatau, N.	3° 05.7' N 112° 47.5' E	Fl.(2)W. period 10s	16 5	5	On stranded wreck.	
24144 F 1923.7	Kuala Tatau entrance Range, front.	3° 05.0' N 112° 47.7' E	Fl.W. period 4s	33 10	4		
24148 K 1923.71	-Rear.	3° 05.2' N 112° 47.4' E	Fl.W. period 4s	39 12	4		
24152	Tanjong Kidurong Approach.	3° 15.0' N 112° 42.0' E	Mo.(U)W. period 15s			Vent stack.	
24156 F 1924	Kuala Bintulu Range, front.	3° 11.2' N 113° 01.8' E	F.G.	39 12	6	Cone topmark, point up.	Moved to meet changes in the channel.

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MALAYSIA (SARAWAK)							
24160 <i>F 1924.1</i>	-Rear, 91 meters from front.	098° 30' 3" 11.2' N 113° 02.1' E	F.G.	67 20	6	Metal framework structure, white triangular daymark, point down.	Tidal signals.
24164 <i>F 1924.3</i>	Kuala Bintulu, N. side of entrance.	3° 11.3' N 113° 01.5' E	Fl.(2)R. period 6s	26 8	5	On black wreck with red bands.	Fl.(2)G. 6s 5M marks stranded wreck 430 meters SSW.
24168 <i>F 1925</i>	Tanjong Kidurong.	3° 16.6' N 113° 03.9' E	Fl.(2)W. period 15s	295 90	23	Aluminum framework tower.	
BINTULU:							
24172 <i>F 1925.2</i>	-Outer Range, front.	3° 15.3' N 113° 04.3' E	Iso.W. period 12s	98 30	15	White trapezoidal daymark.	Radar reflector.
24176 <i>F 1925.21</i>	--Rear, 840 meters from front.	100° 04' 3" 15.2' N 113° 04.8' E	Iso.W. period 12s	148 45	18	White trapezoidal daymark.	Synchronized with front. Radar reflector.
24176.3 <i>F 1925.57</i>	-Resilient Beacon.	3° 16.4' N 112° 57.3' E	Iso.W. period 2s	33 10		Red and white circular daymark on beacon.	Landfall mark.
-RACON			B(- • • •)				
24176.6 <i>F 1925.58</i>	-BPA Beacon.	3° 15.3' N 113° 02.8' E	Q.W.	20 6	8	White pile.	
24176.7 <i>F 1925.25</i>	-Outer breakwater 27.	3° 15.8' N 113° 03.0' E	Oc.R. period 6s	19 6	5	Red structure.	
24177 <i>F 1925.3</i>	-Inner Range 28A, front.	3° 15.6' N 113° 04.5' E	Iso.R. period 6s	39 12	14	Red trapezoidal daymark.	Radar reflector.
24178 <i>F 1925.31</i>	--Rear 28B, 200 meters from front.	085° 05' 3" 15.7' N 113° 04.8' E	Iso.R. period 6s	52 16	14	Red trapezoidal daymark.	Synchronized with front. Radar reflector.
24178.5 <i>F 1925.35</i>	-LNG basin, 16.	3° 15.9' N 113° 03.2' E	Oc.Y. period 5s	10 3	5	White beacon.	
24178.6 <i>F 1925.33</i>	--32.	3° 15.8' N 113° 03.0' E	Oc.R. period 5s	10 3	5		
24179 <i>F 1925.4</i>	-Inner breakwater, N., 26.	3° 15.7' N 113° 03.8' E	Oc.R. period 4s	10 3	5	Red structure.	
24179.5 <i>F 1925.45</i>	--S., 25.	3° 15.5' N 113° 03.8' E	Oc.G. period 4s	10 3	5	White structure.	
24180 <i>F 1925.55</i>	-Shell loading jetty, 33.	3° 15.7' N 113° 04.5' E	Oc.R. period 5s	10 3	5		
24180.5 <i>F 1925.5</i>	-Petroleum jetty 34.	3° 15.6' N 113° 04.4' E	Oc.R. period 5s	10 3	5		
24184 <i>F 1925.8</i>	Tanjong Payong.	3° 44.5' N 113° 25.6' E	Fl.W. period 10s	75 23	16	White fiberglass beacon; 30.	
24188 <i>F 1926</i>	Kuala Suai Range, front.	3° 48.0' N 113° 29.0' E	Fl.W. period 6s		4	White triangular daymark, point up.	
24192 <i>F 1926.1</i>	-Rear, 30 meters from front.	3° 47.7' N 113° 29.4' E	Fl.W. period 6s		4	White triangular daymark, point down.	
24196 <i>F 1927</i>	Kuala Niah.	3° 58.0' N 113° 42.3' E	Fl.W. period 6s	16 5	5	White triangular daymark, point up.	
24204 <i>F 1928</i>	Kuala Sibuti Range, front.	4° 00.0' N 113° 43.0' E	Fl.W. period 3s	16 5	4	White triangular daymark, point up.	
24208 <i>F 1928.1</i>	-Rear, 30 meters from front.	3° 59.5' N 113° 43.4' E	Fl.W. period 3s	19 6	4	White triangular daymark, point down.	
24212 <i>F 1929</i>	Kuala Bakam.	4° 16.0' N 113° 56.0' E	Fl.W. period 6s	20 6	4	Mast, white cone, point up.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MALAYSIA (SARAWAK)							
24216 <i>F 1930</i>	-Miri, Tanjong Lobang.	4° 21.8' N 113° 57.6' E	Fl.W. period 10s fl. 1s, ec. 9s	154 47	18	Gray steel framework tower; 60.	Two F.R. lights on radio towers 0.5 mile and 0.6 mile E.
24220 <i>F 1930.3</i>	-Miri outer.	4° 22.8' N 113° 58.2' E	Fl.W. period 4s		8	Red beacon, white band.	
24228 <i>F 1930.4</i>	-Miri, Inner Range, front.	4° 23.0' N 113° 58.0' E	F.R.			Red triangular daymark.	Moved to meet changes in the channel. For use with local knowledge only. Occasional.
24232 <i>F 1930.41</i>	--Rear.	4° 22.9' N 113° 58.4' E	F.R.			Red triangular daymark.	
24234 <i>F 1931</i>	--Kuala.	4° 22.8' N 113° 58.2' E	Fl.W.R.				W. 130° -138°, R.-234°, W.- 239°, R.-130°.
24238 <i>F 1932.9</i>	Kuala Baram.	4° 35.6' N 113° 57.3' E	Fl.W. period 2s				
24240 <i>F 1934</i>	Tanjong Baram.	4° 35.7' N 113° 58.4' E	Fl.(3)W. period 20s fl. 0.2s, ec. 3.8s fl. 0.2s, ec. 3.8s fl. 0.2s, ec. 11.8s	128 39	25	Gray steel framework tower.	
BRUNEI							
24241 <i>F 1934.5</i>	Kuala Belait Range, front.	4° 35.3' N 114° 10.7' E	F.G.	19 6	2		May be moved to meet changes in channel.
24241.5 <i>F 1934.51</i>	-Rear, 103° 30' front.	4° 35.3' N 114° 10.7' E	F.G.	19 6	2		
24244 <i>F 1934.9</i>	Sungai Tutong.	4° 46.7' N 114° 36.4' E	Fl.(2)W.	33 10	4	Metal mast.	
24245 <i>F 1935</i>	Binturan Firing Range, B1.	4° 53.2' N 114° 40.5' E	Fl.Y. period 10s			Beacon.	
24245.2 <i>F 1935.2</i>	-B2.	4° 56.0' N 114° 45.1' E	Fl.Y. period 5s			Beacon.	
24248 <i>F 1934.8</i>	Ampa Patches.	4° 57.0' N 114° 22.0' E	Fl.(4)W. period 20s	57 17	12	Metal tripod.	
24249 <i>F 9527.48</i>	-Magpie Oilfield.	5° 06.1' N 114° 26.9' E	Fl.(3)W. period 10s	98 30	15	Oil platform.	
	-RACON		M(- -)				
24252	RACON, Fairley Oilfield.	4° 57.1' N 114° 04.0' E	F(• • - •)		2		
BRUNEI CHANNEL:							
24256 <i>F 1939</i>	-North Rambler Banks, No. 26.	4° 59.3' N 115° 05.6' E	Fl.R. period 4s	29 9	5	Concrete pile structure, yellow square, black top on platform.	Radar reflector.
24256.2 <i>F 1939.5</i>	-No. 20.	4° 59.6' N 115° 05.5' E	Q.(3)+L.Fl.W. period 15s			E. CARDINAL BYB, beacon, topmark.	Radar reflector.
24257 <i>F 1940</i>	-Muara Bar, No. 27.	4° 59.5' N 115° 05.3' E	Q.(3)W. period 10s	18 5	8	E. CARDINAL BYB, beacon.	Radar reflector.
24258 <i>F 1940.2</i>	-Pulau Maura Besar Range, front.	4° 59.6' N 115° 05.9' E	F.W.	33 10	10	Beacon, white triangular daymark, point up.	
24259 <i>F 1940.21</i>	--Rear, 280 meters 051° from front.	4° 59.8' N 115° 06.0' E	F.W.	53 16	12	Beacon, white triangular daymark, point down.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
BRUNEI							
24260 F 1940.3	-Badu Kang East, No. 28.	4° 58.0' N 115° 04.0' E	Fl.R. period 3s	30 9	5	Three pile concrete structure, red square daymark.	Radar reflector.
24264 F 1940.4	-Badu Kang West, No. 29.	4° 58.0' N 115° 03.0' E	Fl.G. period 3s	30 9	6	Three pile concrete structure, green square daymark.	
24265 F 1941	-South BarBank No. 30 Range, front.	4° 56.3' N 115° 01.7' E	Fl.(2)R. period 3s	29 9	4	Concrete pile structure, red square on wooden tower.	
24266 F 1941.1	--Pulau Churmin, N. end, rear, about 880 meters 226° 54' from front.	4° 56.0' N 115° 01.3' E	Fl.(2)W. period 10s	52 16	12	Metal framework tower, red and white square.	
24268 F 1941.2	-Barrier Bar, No. 31.	4° 56.0' N 115° 02.0' E	Q.G.	26 8	4	Concrete tripod, green square daymark.	Radar reflector.
24272 F 1941.6	-Churmin Rock No. 32.	4° 56.0' N 115° 01.0' E	Q.R.	26 8	4	Concrete tripod, red square daymark.	Radar reflector.
24276 F 1941.8	-Tanjong Simasta No. 33.	4° 54.0' N 115° 00.0' E	Fl.(2)G. period 3s	30 9	4	Concrete tripod, green square daymark.	
24278 F 1945.85	-Tanjung Tubu Tubu.	4° 51.5' N 115° 01.8' E	Fl.G. period 4s		3		
24280 F 1942	-Pelambayan No. 35.	4° 53.0' N 114° 59.0' E	Fl.G. period 10s	24 7	4	Concrete tripod, green square daymark.	
24284 F 1942.4	-Buang Tawar No. 36.	4° 52.0' N 114° 58.0' E	Fl.R. period 3s	30 9	4	Concrete tripod, red square daymark.	
24288 F 1942.7	-Bandar Seri Begawan, Kota Batu No. 37.	4° 53.0' N 114° 58.0' E	Fl.G. period 5s	20 6	2	Concrete pile structure, green square daymark.	
24290 F 1942.9	-No. 38.	4° 51.7' N 114° 56.9' E	Q.R.			PORT (A) R, beacon.	
24292 F 1943	-Pulau Sibungor, No. 39.	4° 52.0' N 114° 57.0' E	Fl.G. period 2s fl. 0.5s, ec. 1.5s	30 9	4	Concrete tripod, green square daymark.	
24294 F 1943.2	-No. 41.	4° 52.5' N 114° 56.9' E	Fl.(4)G. period 10s			STARBOARD (A) G, beacon.	
24295 F 1943.3	-No. 38A.	4° 52.6' N 114° 56.7' E	Fl.(2)R. period 15s			PORT (A) R, beacon.	
24296 F 1943.4	-No. 40.	4° 53.0' N 114° 57.0' E	Fl.(4)R. period 10s	36 11	5	Concrete tripod, red square daymark.	
24298 F 1943.5	-No. 42.	4° 53.0' N 114° 56.8' E	Fl.R. period 5s			PORT (A) R, beacon.	
24315 F 1945	Tanjung Trusan.	4° 58.4' N 115° 10.7' E	Fl.W. period 6s		9		
24316 F 1938	Tanjung Sapo, on Pulau Muara Besar, No. 22.	4° 59.7' N 115° 07.6' E	Fl.W.R. period 10s	91 28	10	White metal framework tower.	W. 221° -88°, obsc.-153°, R.- 221°. Lighted beacons 60, 62, 64 and 66 mark channel to Tg. Lumba Lumba.
MUARA HARBOR:							
24328 F 1936.5	-Muara entrance Range, front.	5° 01.3' N 115° 05.1' E	F.G. (neon)	49 15	10	Metal framework tower on piles, red truncated triangular daymark, point up, white stripe; 46.	
24332 F 1936.51	--Rear, 1037 meters 209° 48' from front.	5° 00.8' N 115° 04.8' E	F.G. (neon)	92 28	12	Metal framework tower, red truncated triangular daymark, point down, white stripe; 89.	
24334 F 1936.55	-No. 1AW.	5° 04.0' N 115° 06.5' E	Q.G.	36 11	6	Green beacon.	

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BRUNEI							
24335 <i>F 1936.56</i>	-No. 2AE.	5° 03.9' N 115° 06.7' E	Q.R.		36 11	6 Red beacon.	
24336 <i>F 1936.4</i>	-No. 1, near W. breakwater, head.	5° 04.0' N 115° 06.0' E	Q.G.		35 11	6 Concrete pile structure, green square daymark.	Radar reflector.
24340 <i>F 1936.42</i>	-No. 2, East.	5° 03.5' N 115° 06.5' E	Q.R.		36 11 11 3	6 Concrete pile structure, red square daymark.	Radar reflector.
24344 <i>F 1936.43</i>	-Training Wall No. 3, West.	5° 03.1' N 115° 06.0' E	Fl.G. period 3s		30 9	6 Concrete pile structure, green square daymark.	<i>Destroyed (1989).</i>
24348 <i>F 1936.44</i>	-No. 4, East.	5° 03.0' N 115° 06.2' E	Fl.R. period 3s		30 9	4 Concrete pile structure, red square daymark.	Radar reflector.
24352 <i>F 1936.45</i>	-No. 5, West.	5° 02.4' N 115° 05.6' E	Fl.G. period 5s		30 9	6 Concrete pile structure, green square daymark.	Radar reflector.
24356 <i>F 1936.46</i>	-No. 6, East.	5° 02.5' N 115° 05.9' E	Fl.R. period 5s		30 9	4 Concrete pile structure, red square daymark.	Radar reflector.
24360 <i>F 1936.6</i>	-No. 7, near W. breakwater, head.	5° 02.0' N 115° 05.0' E	Fl.(3)G. period 5s		30 9	6 Concrete tripod, green square daymark on platform.	Radar reflector.
24362 <i>F 1936.47</i>	-SE. of Naval Base.	5° 01.8' N 115° 05.4' E	Q.R.			4 PORT (A) R, beacon.	
24364 <i>F 1937</i>	-No. 12, close NW. of Tanjong Ledong.	5° 01.2' N 115° 04.3' E	Fl.(2)R. period 5s		19 6	3 Piles, red and white square daymark on platform.	Radar reflector.
24365 <i>F 1937.2</i>	-No. 14.	5° 00.8' N 115° 04.3' E	Fl.R. period 10s		26 8	3 Concrete tripod, red square daymark on platform.	Radar reflector.
24366 <i>F 1937.25</i>	-No. 16.	5° 00.3' N 115° 04.6' E	Fl.(2)R. period 15s		29 9	3 Concrete tripod, red square daymark on platform.	Fl.(4)Y. beacon marks sewer end 0.7 mile W. Radar reflector.
24367 <i>F 1937.3</i>	-No. 18.	4° 59.9' N 115° 05.0' E	Fl.R. period 5s		29 9	3 Concrete tripod, red square daymark on platform.	Radar reflector.
24368 <i>F 1936</i>	Pelong Rocks, southern summit.	5° 05.0' N 115° 03.0' E	Fl.(3)W. period 15s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 11.5s		79 24	13 Aluminum framework tower; 36.	
24372 <i>F 9527.5</i>	-Champion Shoals.	5° 12.7' N 114° 44.6' E	Fl.(4)W. period 10s		112 34	15 Oil platform.	
	-RACON		C(- • - •)				
MALAYSIA (SABAH)							
24376 <i>F 2825.2</i>	Layang-Layang, Swallow Reef.	7° 24.0' N 113° 50.0' E	Fl.W. period 5s		26 8	10 Gray triangular concrete tower.	
24380 <i>F 2825.3</i>	Semarang Barat Besar, Royal Charlotte Reef.	6° 57.0' N 113° 36.0' E	Fl.(2)W. period 10s		26 8	10 Gray triangular concrete tower.	
24384 <i>F 2825.4</i>	Semarang Barat Kecil, Louisa Reef.	6° 20.0' N 113° 14.0' E	Fl.W. period 10s		26 8	10 Gray triangular concrete tower.	
BRUNEI BAY:							
24386.2 <i>F 1945.2</i>	-Kuala Lawas.	4° 59.0' N 115° 24.6' E	Fl.R. period 3s		20 6	5 PORT (A) R, beacon, topmark.	
24387 <i>F 1946</i>	Sipitang.	5° 05.0' N 115° 32.8' E	Fl.R. period 5s			PORT (A) R, beacon, topmark.	
24387.5 <i>F 1946.3</i>	-Kuala Padas.	5° 08.0' N 115° 31.7' E	L.Fl.(2)W. period 10s		23 7	5 Pillar, red and white stripes, red ball topmark.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MALAYSIA (SABAH)							
24388 F 1946.5	-Teluk Padas.	5° 09.5' N 115° 31.7' E	Fl.R. period 3s	20 6	5	PORT (A) R, beacon, topmark.	
24392 F 1947	Pulau Kuraman.	5° 14.0' N 115° 08.0' E	Fl.W. period 5s fl. 0.4s, ec. 4.6s	215 66	24	White frame tower, red dome; 50.	Obscured from NE. by Pulau Labuan.
24396 F 1949	Pulau Papan.	5° 15.2' N 115° 16.1' E	Fl.W. period 7s	121 37	10	White metal tower, red bands.	 AIS (MMSI No 005330109).
24397 F 1948.5	--SW.	5° 14.9' N 115° 16.0' E	Fl.G. period 3s		8	STARBOARD (A) G, beacon.	
VICTORIA (LABUAN):							
24404 F 1951.8	-New Liberty Pier, SE. head.	5° 16.3' N 115° 14.7' E	F.W.			Dolphin.	
24418 F 1951.6	-ASB jetty, head.	5° 15.5' N 115° 14.7' E	F.R.				
24424 F 1951.3	-Hamilton Point, Flour Feed Mill Pier.	5° 14.8' N 115° 14.6' E	F.R.		5		F.R. on mill roof 400 meters WNW.
24432 F 1949.8	-East Channel Beacon No. 1, Port.	5° 20.0' N 115° 18.0' E	Fl.R. period 5s	39 12	7	PORT (A) R, beacon, topmark.	
24440 F 1948	-Bethune Head.	5° 23.6' N 115° 15.0' E	Fl.(2)W. period 15s	151 46	20	White metal framework tower; 79.	
24442.1 F 1953.2	Sarangtieng.	5° 17.4' N 115° 22.1' E	Fl.G. period 5s	30 9	6	Metal structure, green cone topmark.	
24442.2 F 1953.4	-Off N. end.	5° 17.9' N 115° 22.5' E	Fl.R. period 5s	30 9	5	Metal structure, red can topmark.	Visible 185° -050° .
24443 F 1954.2	Pine Point Shoals.	5° 33.3' N 115° 27.1' E	Fl.R. period 5s		8	PORT (A) R, beacon.	
24445 F 1954.5	Nosong Shoals.	5° 43.1' N 115° 30.4' E	Fl.G. period 3s		8	STARBOARD (A) G, beacon.	
24446 F 1955	Pulau Tiga.	5° 43.9' N 115° 38.3' E	Fl.(4)W. period 20s	242 74	23	White metal framework tower; 82.	Visible 050° -235° .
24448 F 1955.6	Dunlop Shoals.	5° 42.0' N 115° 37.0' E	Fl.G. period 3s	23 7	3	STARBOARD (A) G, beacon, topmark.	
24450 K 1954.4	Tangut Rock.	5° 38.8' N 115° 35.8' E	Fl.R. period 3s		8	PORT (A) R, beacon.	
24452 F 1955.7	Kuala Penyu.	5° 35.0' N 115° 37.7' E	Fl.R. period 3s	20 6	5	PORT (A) R, beacon, topmark.	
24457 F 1955.8	Tanjung Papar.	5° 45.0' N 115° 53.9' E	Fl.G. period 5s	20 6	5	STARBOARD (A) G, beacon, topmark.	
24460	Dampier Shoals, KTMP-A.	6° 06.0' N 115° 36.0' E	Fl.(2)W. period 15s			Oil platform.	
24464 F 1956	Pulau Gaya.	6° 02.5' N 116° 00.7' E	Fl.W. period 10s	550 168	15	White framework tower, red bands; 80.	Visible 030° -282° .
24468 F 1956.6	Pulau Plompong.	6° 01.0' N 116° 04.0' E	Fl.G. period 3s	32 10	6	Green 5 legged structure, green daymark.	
KOTA KINABALU (JESSELTON):							
24472 F 1957	-E. side of Grieve Reef.	6° 00.0' N 116° 04.0' E	Fl.(2)W. period 7s	42 13	6	Red metal column, black bands, black vertical balls; 23.	
24476 F 1957.3	-No. 2.	6° 00.1' N 116° 04.2' E	Fl.G. period 3s	33 10	6	Green 5-legged structure, green triangular daymark.	

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MALAYSIA (SABAH)							
24480 <i>F 1958</i>	-Gueritz Shoal.	6° 00.1' N 116° 04.5' E	Fl.(2)W. period 8s	29 9	5	ISOLATED DANGER BRB, beacon, topmark.	F.R. on radio masts 2.9 miles and 4 miles SSW. R. light on building 2 miles ENE.
24484 <i>F 1957.8</i>	-Comber Reef.	6° 00.0' N 116° 05.0' E	Q.R.		3	PORT (A) R, beacon, topmark.	
24488 <i>F 1957.9</i>	-Tanjong Lipat.	6° 00.0' N 116° 05.0' E	Fl.R. period 2s		3	PORT (A) R, beacon, topmark.	
24492 <i>F 1957.6</i>	--Normanhurst Reef.	6° 00.2' N 116° 05.1' E	Fl.(4)W. period 20s		3	Green pile, green triangular daymark.	
24496 <i>F 1957.7</i>	--SW. end.	6° 00.2' N 116° 04.9' E	Fl.R. period 5s	36 11	4	PORT (A) R, beacon, topmark.	
24500 <i>F 1958.05</i>	-Pier, head.	5° 59.0' N 116° 05.0' E	F.R.	15 5	3	Mooring dolphin.	
24504 <i>F 1958.2</i>	-Harris Reef.	6° 00.0' N 116° 04.0' E	Fl.(2)W. period 5s	18 5	3	Black and yellow beacon.	
24508 <i>F 1958.9</i>	-Tanjong Aru.	5° 57.6' N 116° 01.5' E	Fl.G. period 5s	18 5	5	STARBOARD (A) G, beacon, topmark.	
24510 <i>F 1959.8</i>	Sapangar Bay.	6° 04.6' N 116° 06.8' E	Fl.G. period 3s	33 10	6	STARBOARD (A) G, beacon, topmark.	Fl.G. 3s on beacon 0.8 mile NE.
24511 <i>F 1959.5</i>	-Melanim Point.	6° 04.7' N 116° 05.9' E	Fl.R. period 3s	33 10	6	PORT (A) R, beacon, topmark.	Fl.R. 3s on beacons 0.9 mile and 1.5 miles NE.
24513 <i>F 1959.82</i>	Tanjong Dalit.	6° 09.6' N 116° 08.4' E	Fl.W. period 5s	26 8	5		
24515 <i>F 1961.3</i>	Slime Rock.	6° 23.0' N 116° 19.0' E	Fl.R. period 5s	31 9	8	Five leg metal structure, square topmark.	Visible 297° -158° .
24516 <i>F 1961</i>	Pulau Usukan.	6° 24.0' N 116° 20.0' E	Fl.(2)W. period 15s	190 58	17	White metal framework tower; 20.	Aero Radiobeacon 15.8 miles SSW.
24520 <i>F 1961.5</i>	Tanjong Nabolan.	6° 22.0' N 116° 20.0' E	Fl.G. period 5s	33 10	4	Green five leg metal beacon, triangular daymark.	
24524 <i>F 1962</i>	Mantanani Islands.	6° 43.0' N 116° 18.0' E	L.Fl.W. period 10s fl. 2s, ec. 8s	155 47	15	Round stone tower; 16.	Obscured 258° -278° .
24528	South Furious Shoals, SFV-A.	6° 47.0' N 116° 14.0' E	Mo.(U)W. period 15s			Vent stack.	
24532 <i>F 1964</i>	Pulau Kalampunian.	7° 03.0' N 116° 45.0' E	Fl.W. period 10s	105 32	15	White metal tower, red band.	AIS (MMSI No 005331903).
24536 <i>F 1968</i>	-Sandilands Rock.	6° 52.0' N 116° 52.0' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	26 8	7	STARBOARD (A) G, tripod.	
KUDAT HARBOR:							
24540 <i>F 1969</i>	-Gueritz Rock.	6° 52.6' N 116° 50.8' E	Q.R.	18 5	3	Pile, black and white checkered conical topmark; 18.	
24544 <i>F 1970</i>	-Wharf, head.	6° 52.8' N 116° 50.5' E	F.R.			Dolphin.	
24545 <i>F 1974.3</i>	Sungai Murudu.	6° 37.1' N 116° 49.1' E	Fl.R. period 5s		5	PORT (A) R, beacon, topmark.	
24545.5 <i>F 1974</i>	Sungai Mattunggong.	6° 39.2' N 116° 48.6' E	Fl.G. period 5s		5	STARBOARD (A) G, beacon, topmark.	
24546 <i>F 1971</i>	Pulau Bengkoka.	6° 50.2' N 117° 00.5' E	Fl.G. period 5s			STARBOARD (A) G, beacon, topmark.	
24547 <i>F 1973</i>	Zebra Reefs.	6° 45.4' N 116° 57.9' E	Fl.G. period 5s			STARBOARD (A) G, beacon, topmark.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MALAYSIA (SABAH)							
24553 F 1976.2	South Channel Dangers.	7° 05.0' N 117° 08.7' E	Fl.R. period 5s	23 7	6	PORT (A) R, pile, topmark.	
24561 F 1977.5	-Eastwards.	6° 59.1' N 117° 19.4' E	Fl.R. period 5s			PORT (A) R, pile, topmark.	
24564 F 1978.6	Lubani Rock.	6° 54.0' N 117° 23.0' E	Fl.G. period 3s	23 7	4	STARBOARD (A) G, topmark.	
24568 F 1978	Pulau Kukuban.	6° 55.8' N 117° 24.3' E	Fl.W. period 10s	72 22	15	White metal tower, red bands.	AIS (MMSI No 005331904).
24570 F 1978.8	Dampier Rock.	6° 51.5' N 117° 31.9' E	Fl.(2)W. period 8s	36 11	5	ISOLATED DANGER BRB, beacon, topmark.	
24580 F 1979	-Gibson Reef.	6° 50.2' N 117° 32.7' E	Fl.G. period 5s	23 7	5	STARBOARD (A) G, pile, topmark.	
24584 F 1978.9	Sipindung Cay.	6° 51.5' N 117° 32.9' E	Q.R.	20 6	3	PORT (A) R, pile, topmark.	
24585 F 1979.3	Harrison Reef.	6° 50.2' N 117° 34.2' E	Fl.R. period 5s	26 8	6	PORT (A) R, pile, topmark.	
24587 F 1979.7	Pole Reef.	6° 45.6' N 117° 39.5' E	Fl.R. period 10s		5	PORT (A) Beacon.	
24589 F 1979.8	Leonan Reef.	6° 44.5' N 117° 37.4' E	Fl.G. period 5s	20 6	5	STARBOARD (A) G, pile, topmark.	
24593 F 1981	Pulau Lankayan.	6° 31.1' N 117° 55.0' E	Fl.G. period 5s			STARBOARD (A) G, pile, topmark; 33.	AIS (MMSI No 005331912).
24595 F 1981.8	Turtle Rock.	6° 12.4' N 118° 02.6' E	Fl.(2)W. period 8s		6	ISOLATED DANGER BRB, beacon, topmark.	
24596 F 1982	Pulau Siligaan.	6° 10.0' N 118° 04.0' E	Fl.W. period 10s	85 26	15	White metal framework tower, red bands.	
24596.2 F 1982.08	-Reef, P. Siligaan, E.	6° 10.5' N 118° 04.4' E	Fl.R. period 5s		5	PORT (A) R, beacon, topmark.	
24596.4 F 1982.14	-Reef, P. Siligaan, SE.	6° 10.2' N 118° 04.4' E	Fl.R. period 5s		5	PORT (A) R, beacon, topmark.	
24597 F 1982.2	Pulau Gulisaan.	6° 09.1' N 118° 03.1' E	Fl.G. period 5s	20 6	7	STARBOARD (A) G, pile, topmark.	
24600 F 1982.4	Pulau Bonting.	6° 07.0' N 118° 00.0' E	Q.W.	35 11	3	White pile, red bands.	
24602 F 1983	Gubbins Rock.	6° 03.3' N 118° 11.6' E	Fl.(2)W. period 8s		6	ISOLATED DANGER BRB, beacon, topmark.	
24604 F 1984	-Pulau Berhala.	5° 52.2' N 118° 08.9' E	Fl.W. period 6.5s	635 194	28	White framework tower; 65.	
24605 F 1986.5	Allard Bank.	5° 49.3' N 118° 05.9' E	Fl.G. period 5s	23 7	5	STARBOARD (A) G, beacon, topmark.	
24606 F 1985	Sandakan Harbor, entrance to Trusan Duyong.	5° 48.4' N 118° 09.1' E	Fl.R. period 5s			PORT (A) R, beacon, topmark.	
24608 F 1986	-Reef.	5° 48.0' N 118° 04.0' E	Q.G.	16 5	3	STARBOARD (A) G, beacon, topmark; 18.	Q.R. on radio mast 3 miles NE.
24608.2 F 1985.7	-On reef E. of Tg. Buli Luku.	5° 47.1' N 118° 03.8' E	Fl.R. period 5s		5	PORT (A) R, beacon, topmark.	
24609 F 1985.3	-Pulau Bai, NE.	5° 47.8' N 118° 07.6' E	V.Q.(3)W. period 3s		6	E.CARDINAL BYB, beacon, topmark.	
24610 F 1985.5	--NW.	5° 46.9' N 118° 05.6' E	Fl.R. period 5s		5	PORT (A) R, beacon, topmark.	
24612 F 1987	Selat Kinabatangan.	5° 39.0' N 118° 36.0' E	Fl.W. period 10s	79 24	15	White metal framework tower, red bands.	

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MALAYSIA (SABAH)							
24616 <i>F 1987.5</i>	Pegasus Reef.	5° 47.0' N 118° 50.0' E	Fl.(2)W. period 8s	46 14	9	ISOLATED DANGER BRB, beacon, topmark.	
24620 <i>F 1988</i>	Tanjong Terang.	5° 25.3' N 119° 12.6' E	Fl.W. period 6s	85 26	25	White iron framework structure; 75.	Visible 121° -315° .
24624 <i>F 1988.3</i>	Tanjong Labian.	5° 09.0' N 119° 13.0' E	L.Fl.W. period 10s fl. 2s, ec. 8s	85 26	15	White iron framework tower.	Visible 225° -45° .
24628 <i>F 1988.6</i>	Tg. Tungku.	5° 00.0' N 118° 52.0' E	Fl.(3)W. period 20s	80 24	15	White iron lattice tower; 75.	
24632 <i>F 1989</i>	Tanjong Membatu.	4° 57.0' N 118° 38.0' E	Fl.W. period 5s	230 70	15	White steel lattice tower; 35.	
24636 <i>F 1990</i>	Armstrong Reef.	4° 56.0' N 118° 26.0' E	Fl.(2)G. period 15s	26 8	7	STARBOARD (A) G, tower.	
24640 <i>F 1990.2</i>	Pulau Sakar, off E. end.	4° 59.0' N 118° 23.0' E	Q.R.	18 5	3	Pile, red and white checkered rectangular daymark; 18.	
24644 <i>F 1990.24</i>	About 2.8 kilometers NE. of Pulau Sakar.	5° 00.0' N 118° 25.0' E	Fl.G. period 3s	20 6	3	STARBOARD (A) G, tripod.	
24648 <i>F 1990.3</i>	Halloran Reef.	4° 59.7' N 118° 21.7' E	Q.R.	15 5	3	Pile, red and white checkered daymark.	
24652 <i>F 1990.4</i>	Voorwyk Reef.	5° 01.0' N 118° 21.0' E	Q.R.	18 5	3	Pile, red and white checkered daymark.	
24656 <i>F 1990.5</i>	Darvel Bay, Lahad Datu.	5° 01.0' N 118° 20.0' E	FR.	22 7	6	White framework tower; 20.	
24660 <i>F 1991.2</i>	Pulau Baik Rocks.	4° 57.0' N 118° 15.0' E	Q.G.	20 6	3	STARBOARD (A) G, beacon; 20.	
24664 <i>F 1991</i>	Kalunaun.	4° 55.0' N 118° 16.0' E	Fl.W. period 10s	126 38	17	Iron framework tower.	
24668 <i>F 1991.3</i>	Rashleigh Reef.	4° 44.0' N 118° 17.0' E	Fl.G. period 3s	22 7	5	STARBOARD (A) G, tripod.	
24672 <i>F 1991.32</i>	N. Greep Reef.	4° 43.0' N 118° 16.0' E	Q.R.	15 5	4	White pile, red bands.	
24676 <i>F 1991.36</i>	SW. Greep Reef.	4° 42.3' N 118° 15.2' E	Q.R.	16 5	3	Red pile.	
24680 <i>F 1991.38</i>	Lloyd Reef.	4° 42.0' N 118° 16.0' E	Q.G.	17 5	3	Green column.	
24682 <i>F 1991.72</i>	Semprona, N. entrance.	4° 31.2' N 118° 37.4' E	Fl.(2)W. period 5s	16 5	5	ISOLATED DANGER BRB, beacon, topmark.	
24684 <i>F 1991.6</i>	Pulau Matakang.	4° 34.7' N 118° 56.7' E	Fl.W. period 20s	90 27	15	White metal framework tower; 80.	
	RACON		M(- -)				
24688 <i>F 1992</i>	Pulau Si Amil.	4° 19.0' N 118° 53.0' E	Fl.(2)W. period 15s fl. 1.5s, ec. 2s fl. 1.5s, ec. 10s	350 107	15	White iron framework tower, red bands; 35.	
24692 <i>F 1999.5</i>	Pulau Gusungan.	4° 18.0' N 118° 33.0' E	Fl.G. period 3s	16 5	5	STARBOARD (A) G, tripod.	
24696 <i>F 1992.3</i>	Cust Reef.	4° 17.0' N 118° 43.0' E	Fl.R. period 3s	17 5	5	PORT (A) R, tripod.	
24700 <i>F 1992.14</i>	Pulau Ligitan.	4° 09.8' N 118° 53.1' E	Fl.W. period 5s	33 10	11	White metal framework tower, red bands.	
24704 <i>F 1992.2</i>	Pulau Sipadan.	4° 06.6' N 118° 37.7' E	Fl.(3)W. period 20s	80 24	14	White metal framework tower; 72.	Visible 214° -110° .
	RACON		S(•••)				

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MALAYSIA (SABAH)							
24708 <i>F 1992.7</i>	Horn Reef.	4° 15.9' N 118° 25.5' E	Fl.R. period 10s	12 4	8	PORT (A) R, tripod; 13.	
24712 <i>F 1993</i>	Heel Reef.	4° 13.8' N 118° 14.2' E	Fl.R. period 5s	20 6	5	PORT (A) R, tower; 20.	
24715 <i>K 1993.2</i>	Karang Alert.	4° 09.6' N 118° 15.9' E	Q.(6)+L.Fl.W. period 15s		5	S. CARDINAL YB, beacon.	
24716 <i>F 1993.4</i>	Hand Rock.	4° 08.4' N 118° 10.8' E	Fl.R. period 2s	24 7	5	PORT (A) R, tripod, topmark; 23.	
24728 <i>F 1994</i>	Batu Tinagat.	4° 13.5' N 117° 58.7' E	Fl.W.R. period 7.5s	325 99	W. 25 R. 16	Round metal framework tower; 30.	W. 297° -329° , R. elsewhere.
24732 <i>F 1995.4</i>	Wicks Rock.	4° 15.0' N 117° 53.0' E	Q.W.	12 4	3	Black pile.	
24736 <i>F 1997</i>	Adolphy Point.	4° 16.0' N 117° 40.0' E	Fl.(3)Y. period 5s	52 16	9	Metal framework tower white triangular topmark.	Visible 254° -274° . In line with beacon 264° .
24740 <i>F 1999</i>	Coal Mine Reach.	4° 14.0' N 117° 38.0' E	Fl.W. period 5s	65 20	5		Visible 212° 30' - 232° 30' .
INDONESIA (BORNEO)							
24744 <i>F 1999.6</i>	Palau Nunukan Timur.	4° 03.9' N 117° 45.0' E	Fl.R. period 5s	49 15	4	PORT (A) R, beacon; 39.	
24744.5 <i>F 1999.75</i>	Karang Unarang.	4° 00.7' N 118° 04.9' E	Fl.W. period 4s fl. 1s, ec. 3s	66 20	14	White metal framework tower; 49.	
24745 <i>F 1999.7</i>	Makasser Bank.	3° 59.5' N 117° 56.6' E	Fl.G. period 3s	49 15	7	STARBOARD (A) G, beacon.	
24746 <i>F 1999.65</i>	Gosong Nunukan.	3° 58.0' N 117° 50.9' E	Q.(3)W. period 10s	46 14	12	E. CARDINAL BYB, beacon, topmark.	
24747 <i>F 1999.8</i>	Karang Banda.	3° 49.7' N 118° 00.6' E	Fl.(2)W. period 12s	59 18	11	ISOLATED DANGER BRB, beacon.	
24748	<i>Lighted Buoy.</i>	3° 24.7' N 117° 56.5' E	L.Fl.W. period 10s			Red and white stripes, red ball topmark.	
24749 <i>F 1999.9</i>	E. of Tg Ahus.	3° 46.3' N 117° 56.5' E	Q.(3)W. period 10s	49 15	10	E. CARDINAL BYB, beacon, topmark.	
24752 <i>F 2000</i>	Pulau Bunyu.	3° 33.6' N 117° 54.6' E	Fl.W. period 6s	59 18	11	White beacon.	
24753 <i>F 2000.5</i>	-Tanjung Arang.	3° 27.1' N 117° 52.4' E	Fl.W. period 5s	154 47	18		
24754 <i>F 2001</i>	Tg. Tibi.	3° 28.3' N 117° 40.2' E	Fl.W. period 7s fl. 1s, ec. 6s	43 13	12	White beacon.	
24756 <i>F 2002</i>	Muasa Sebawang, Palau Tiga.	3° 37.2' N 117° 25.8' E	Fl.W. period 3s fl. 1s, ec. 2s			White beacon.	
TARAKAN:							
24760	<i>-Lighted Buoy.</i>	3° 14.7' N 117° 53.3' E	Iso.W. period 2s			Red and white striped buoy.	Radar reflector.
24762 <i>F 2009</i>	<i>-Tg. Batu.</i>	3° 14.5' N 117° 39.0' E	Fl.G. period 5s fl. 1s, ec. 4s	43 13	12	Green beacon.	
24764 <i>F 2008</i>	<i>-Lingkak approach Range, front.</i>	3° 13.9' N 117° 37.1' E	Q.W.	46 14	4	Red and white striped beacon; 33.	

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INDONESIA (BORNEO)							
24768 F 2008.1	--Rear, about 914 meters 267° from front.	3° 13.9' N 117° 36.6' E	Fl.W. period 5s	62 19	6	Black metal beacon; 49.	
24770 F 2007	-SW.	3° 10.2' N 117° 31.1' E	Fl.R. period 4s	52 16	12	Red beacon.	
24771 F 2010.2	-Tg. Keris, SE.	3° 15.8' N 117° 33.2' E	Fl.R. period 6s fl. 1s, ec. 5s	49 15	12	PORT (A) R, beacon, topmark.	
24772 F 2010	-Tanjung Mengacu.	3° 14.6' N 117° 37.4' E	Fl.G. period 10s	36 11	4	Green metal beacon; 26.	
24772.5 F 2014.3	Makapan.	3° 00.1' N 117° 49.5' E	Fl.W. period 6s	46 14	10		Radar reflector.
24773 F 2015.5	Pulau Panjang.	2° 23.2' N 118° 11.8' E	Fl.W. period 5s	46 14	11	White beacon.	
24773.1 F 2014.5	Karang Balikpapan.	2° 35.0' N 118° 00.4' E	Fl.W. period 8s	46 14	10	White metal framework structure; 33.	
24774 F 2015	Tg Bolituwatan.	2° 18.9' N 118° 33.7' E	Fl.W. period 15s fl. 0.3s, ec. 3.7s fl. 0.3s, ec. 10.7s	180 55	24		
24775 F 2015.7	Karang Derawan.	2° 15.7' N 118° 14.4' E	Fl.W. period 10s	46 14	8	White metal framework structure; 33.	
24775.1 F 2016.5	Karang Tidung.	2° 09.8' N 118° 10.5' E	Fl.(2)W. period 10s	46 14	8	ISOLATED DANGER BRB, beacon, topmark; 33.	
24775.5 F 2019	Bakungan Island.	2° 06.0' N 118° 43.8' E	Fl.W. period 10s	115 35	22	White beacon; 98.	
24776 F 2016	Sangkalakki.	2° 05.2' N 118° 24.2' E	Fl.W. period 3s	49 15	11		
24778 F 2024.3	Muara Pantai.	2° 01.8' N 117° 51.3' E	Fl.G. period 3s	43 13	8	Green beacon.	
24779 F 2024.2	-S.	1° 57.9' N 117° 53.2' E	Fl.W. period 7s fl. 1s, ec. 6s	43 13	12	White beacon.	
24780 F 2018	Karang Malalungan, N. point.	1° 55.6' N 118° 27.2' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	39 12	7	Red iron framework structure; 26.	
	RACON		K(- • -)				
24782 F 2020	Karang Gongsungan.	1° 57.2' N 118° 48.3' E	Fl.(3)W. period 20s	42 13	10		
24784 F 2022	Karana Muaras, Pulau Sambit.	1° 46.3' N 119° 01.7' E	Fl.W. period 5s fl. 0.3s, ec. 4.7s	141 43	24	Iron framework, upper part black, lower part white; 102.	
24786 F 2022.5	Karang Besar.	1° 33.3' N 118° 23.6' E	Fl.W. period 9s	42 13	10		
24787 F 2022.3	Bilang Bilangan Island.	1° 33.7' N 118° 57.0' E	Fl.W. period 5s	443 135	16	White fiberglass beacon; 33.	Radar reflector.
24788 F 2024.5	Tanjung Mangkalihat.	0° 59.3' N 118° 59.8' E	Fl.W. period 5s	138 42	18	White iron framework tower; 108.	Visible 180° -023° . Obscured by trees 000° -023° at short distances. Radiobeacon.
	RACON		T(-) period 40s		8		Azimuth coverage 180° - 007° .
24790 F 2024.6	Birahbirahan.	0° 41.5' N 118° 28.3' E	Fl.(2)W. period 10s	46 14	11	ISOLATED DANGER BRB, beacon, topmark.	
24792 F 2024.7	Sangkulirang.	0° 46.7' N 118° 04.7' E	Fl.R. period 5s	43 13	8	Red metal framework structure.	Radar reflector.

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INDONESIA (BORNEO)							
24792.5 F 2024.65	Pulau Miang Besar.	0° 43.4' N 118° 01.3' E	Fl.W. period 6s	167 51	19	White lighthouse.	
24793 F 2024.73	Karang Tg Bungalun.	0° 36.6' N 117° 50.0' E	Fl.(2)W. period 6s	42 13	12	ISOLATED DANGER BRB, beacon, topmark.	
24794 F 2024.75	Sangatta.	0° 32.7' N 117° 37.1' E	Fl.W. period 5s	430 131	16	White beacon.	
24794.1 F 2024.81	-Channel beacon.	0° 32.1' N 117° 46.4' E	Q.W.	23 7	7	N. CARDINAL BY, beacon, topmark.	Channel marked by lighted beacons. Radar reflector.
	-RACON		K(- • -)				(3 & 10 cm)
24794.2 F 2024.82	--S.	0° 29.9' N 117° 44.6' E	Q.(6)+L.Fl.W. period 15s	23 7	4	S. CARDINAL YB, beacon, topmark.	Radar reflector.
24796 F 2024.8	Sengata Reef.	0° 20.0' N 117° 43.0' E	Fl.(2)W. period 8s	82 25	10	White metal structure.	Radar reflector.
LITHOU HARBOR:							
24796.6 F 2025	-Entrance Range, front.	0° 08.9' N 117° 32.0' E	Q.W.	39 12		White beacon, red bands, triangular daymark, point up.	
24796.7 F 2025.1	--Rear, 300 meters 284° from front.	0° 08.9' N 117° 31.8' E	Iso.W. period 4s	66 20		Beacon, triangular daymark, point down.	
24797 F 2025.4	-Batutanbu Range, front.	0° 07.8' N 117° 33.2' E	Q.W.	39 12		Beacon, triangular daymark, point up.	
24797.1 F 2025.41	--Rear, 320 meters 148° from front.	0° 07.7' N 117° 33.3' E	Iso.W. period 4s	66 20		Beacon, triangular daymark, point down.	
24797.4 F 2025.6	-Segaja Range, front.	0° 09.8' N 117° 32.5' E	Q.W.	39 12		Beacon, triangular daymark, point up.	
24797.5 F 2025.61	--Rear, 320 meters 116° from front.	0° 09.7' N 117° 32.6' E	Iso.W. period 4s	66 20		Beacon, triangular daymark, point down.	
24797.8 F 2025.7	-Kiampam.	0° 10.5' N 117° 31.5' E	Q.G.	33 10	4	STARBOARD (A) G, beacon, topmark.	
24798 F 2025.8	-On reef.	0° 10.4' N 117° 31.0' E	Q.R.	33 10	4	PORT (A) R, beacon, topmark.	
24799 F 2025.9	Tg. Pokoayi.	0° 10.8' N 117° 30.1' E	Mo.(U)W. period 15s fl. 0.6s, ec. 0.6s fl. 0.6s, ec. 0.6s fl. 1.8s, ec. 10.8s	49 15	6	White beacon.	
BONTANG HARBOR:							
24800 F 2028	-Entrance Range, front.	0° 03.7' N 117° 32.7' E	Q.W.	52 16	12	White beacon, red bands, triangular daymark, point up; 52.	
24804 F 2028.1	--Rear, 567 meters 310° 05' from front.	0° 03.9' N 117° 32.5' E	Iso.W. period 2s	75 23	12	White beacon, triangular daymark; 75.	
24808 F 2027	-Berasbasah.	0° 03.8' N 117° 33.5' E	Fl.(3+2)W. period 20.5s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 5.5s fl. 1s, ec. 1.5s fl. 1s, ec. 5.5s	118 36	22		Radar reflector.
24810 F 2028.2	-Range, front.	0° 02.4' N 117° 32.2' E	Q.W.	23 7	12	White beacon, white triangular daymark, point up.	
24810.1 F 2028.21	--Rear, about 1540 meters 304° from front.	0° 02.9' N 117° 31.6' E	Iso.W. period 4s	59 18	16	White beacon, white triangular daymark, point up.	

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INDONESIA (BORNEO)							
24812 <i>F 2028.3</i>	-Second Range, front.	0° 05.0' N 117° 32.0' E	Fl.W. period 1.5s	52 16	9	White beacon, black bands, triangular daymark.	
24816 <i>F 2028.31</i>	--Rear, 622 meters 337° from front.	0° 05.1' N 117° 32.4' E	Fl.W. period 3s	75 23	9	White beacon, triangular daymark.	
24817 <i>F 2028.5</i>	-Range, common front 3A.	0° 06.0' N 117° 30.6' E	Fl.W. period 2.5s	52 16	12	White beacon, black bands, triangular daymark.	
24817.2 <i>F 2028.49</i>	--Rear, 300 meters 049° from common front.	0° 06.1' N 117° 30.7' E	Iso.W. period 6s	75 23	12	Beacon, triangular daymark.	
24817.4 <i>F 2028.9</i>	--Rear 3B, 600 meters 307° from common front.	0° 06.2' N 117° 30.3' E	Fl.W. period 2.5s	75 23	12	White beacon, triangular daymark.	
24818 <i>F 2029.4</i>	-Range, front 4A.	0° 05.6' N 117° 28.6' E	Q.W.	52 16	9	White beacon, red bands, triangular daymark.	
24818.1 <i>F 2029.41</i>	--Rear 0D, 600 meters 269° from front.	0° 05.6' N 117° 28.3' E	Iso.W. period 2s	81 25	9	White beacon, triangular daymark, point down; 82.	
24818.3 <i>F 2030.2</i>	-MD 1.	0° 05.3' N 117° 29.5' E	Fl.Y. period 4s fl. 0.5s, ec. 3.5s	30 9	4	SPECIAL Y, beacon, topmark.	Mooring beacon.
24818.4 <i>F 2030</i>	-MD 7.	0° 05.4' N 117° 29.3' E	Fl.Y. period 3s fl. 0.5s, ec. 2.5s	30 9	4	SPECIAL Y, beacon, topmark.	Mooring beacon.
24818.5 <i>F 2029.7</i>	-No. 26.	0° 05.6' N 117° 29.0' E	Fl.R. period 2s			PORT (A) R, beacon, topmark.	
24818.7 <i>F 2029.8</i>	-No. 28.	0° 05.6' N 117° 28.9' E	Fl.R. period 2s			PORT (A) R, beacon, topmark.	
24819 <i>F 2031</i>	-Range 1G, front.	0° 04.6' N 117° 29.0' E	Q.W.	52 16	9	Beacon, white triangular daymark.	
24819.1 <i>F 2031.1</i>	--Rear 0G, 300 meters 229° 45' from front.	0° 04.5' N 117° 28.9' E	Fl.W. period 6s	75 23	12	Beacon, white triangular daymark.	W. harbor entrance marked by lighted beacons.
SUNGAI MAHAKAM:							
24828 <i>K 1462.39</i>	-Range, front 2.	0° 57.6' S 117° 18.4' E	Q.W.	29 9	10	White beacon, white triangular daymark, point up; 33.	Radar reflector.
24832 <i>K 1462.41</i>	-Range, front 2A.	0° 56.4' S 117° 18.2' E	Q.W.	33 10	10	White beacon, red bands, triangular daymark, point up.	Radar reflector.
24836 <i>K 1462.4</i>	-Common rear, 700 meters 316° from 2, 2,900 meters 181° 35' from 2A.	0° 57.4' S 117° 18.2' E	Iso.W. period 2s	49 15	12	White beacon, white triangular daymark, point down.	Radar reflector.
24840 <i>K 1462.2</i>	-Range, front, 1.	0° 58.4' S 117° 18.8' E	Q.W.	23 7	8	White beacon, white triangular daymark, point up; 33.	
24844 <i>K 1462.21</i>	--Rear, 1,500 meters 170° from front.	0° 59.0' S 117° 19.0' E	Iso.W. period 4s	52 16	12		
	--RACON		M(- -) period 30s		5		
24844.5 <i>K 1460.6</i>	-Pegah Estuary.	1° 01.1' S 117° 21.4' E	Mo.(U)Y. period 15s fl. 0.4s, ec. 0.4s fl. 0.4s, ec. 0.4s fl. 1.4s, ec. 11.9s	59 18	12	SPECIAL Y, beacon.	
	--RACON		Q(- - • -)				
24845 <i>K 1460.7</i>	-Pecko.	1° 06.5' S 117° 22.5' E	Fl.(3)Y. period 15s fl. 0.4s, ec. 1s fl. 0.4s, ec. 1s fl. 0.4s, ec. 11.8s	66 20	9	SPECIAL Y, beacon, topmark.	
24846 <i>K 1462</i>	-Bukuan Island.	0° 51.6' S 117° 17.8' E	Fl.W. period 15s	135 41	20	White metal framework structure.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDONESIA (BORNEO)							
24847 K 1459.94	Sepinggang entrance.	0° 59.1' S 117° 09.8' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	23 7	4	PORT (A) R, beacon, topmark.	
24848 K 1459.95	-Entrance, SW.	0° 59.1' S 117° 09.8' E	Fl.G. period 2s fl. 0.5s, ec. 1.5s	23 7	4	STARBOARD (A) G, beacon, topmark.	
24852 K 1462.6	-Range, front.	0° 47.3' S 117° 16.9' E	Q.W.	23 7	8		
24856 K 1462.61	--Rear, 240 meters 320° from front.	0° 47.3' S 117° 16.9' E	Iso.W. period 2s	39 12	10		
24858 K 1468.05	-Tg Bayor.	0° 42.2' S 117° 40.2' E	Fl.(4)W. period 20s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 13.5s	46 14	12		
24859	Kayumojara.	0° 41.3' S 117° 33.0' E	Fl.(3)W. period 15s	62 19	10		
24860 K 1462.8	Muara Jawa Range, No. 4, front.	0° 39.5' S 117° 18.3' E	Q.W.	23 7	8	Wooden beacon.	
24864 K 1462.81	-Rear 300 meters 001° 30' from front.	0° 39.3' S 117° 18.3' E	Iso.W. period 2s	39 12	10		
24868 K 1464	Tg. Muaraberan Range, front.	0° 35.9' S 117° 17.6' E	Q.W.	23 7	8	White triangular daymark, point up.	
24872 K 1464.1	-Rear, 300 meters 356° from front.	0° 35.7' S 117° 17.6' E	Iso.W. period 2s	39 12	10	White triangular daymark, point down.	
24876	Sungaimariam Range, front.	0° 35.0' S 117° 16.0' E	Q.W.	23 7	8		
24880 K 1463.1	-Rear, 650 meters 324° 30' from front.	0° 34.3' S 117° 16.3' E	Iso.W. period 2s	39 12	12		
24881 K 1468.46	Tg Tamarong.	0° 25.8' S 117° 39.1' E	L.Fl.W. period 10s fl. 2s, ec. 8s	108 33	12	White tower; 98.	
24882 K 1468.5	Muara Berau.	0° 20.3' S 117° 29.7' E	Fl.W. period 10s	46 14	11	White beacon.	
TELUK BALIKPAPAN:							
24884	-Outer Light Buoy.	1° 21.5' S 116° 56.7' E	Fl.W. period 10s			SAFE WATER RW, pillar, topmark.	Radar reflector.
24888 K 1459.2	-Range No. 1, front.	1° 18.9' S 116° 52.9' E	Q.W.	16 5	7	White beacon, white triangular daymark, point up.	
24892 K 1459.21	--Rear, No. 2, 1445 meters 306° 14' from front.	1° 18.4' S 116° 52.3' E	Iso.W. period 2s	49 15	11	Beacon, black and white triangular daymark, point down.	
24896 F 1459.42	-Range, front, 012° 30' from common rear.	1° 19.2' S 116° 47.5' E	Q.W.	42 13	8	Beacon, white triangular daymark, point up; 49.	
24900 K 1459.4	-Range No. 3, front.	1° 19.7' S 116° 49.0' E	Q.W.	26 8	9	White beacon, white triangular daymark, point up; 39.	
24904 K 1459.41	--Common rear, No. 4, 1.61 miles 270° from No. 3.	1° 19.7' S 116° 47.4' E	Iso.W. period 2s	82 25	11	White beacon, white triangular daymark, point down.	
24908 K 1459.6	-Range No. 5, front.	1° 20.6' S 116° 50.4' E	Q.W.	21 6	8	White beacon, white triangle, point up.	
24912 K 1459.61	--Rear, No. 6, 1000 meters 140° from front.	1° 21.0' S 116° 51.0' E	Iso.W. period 4s	59 18	11	Beacon.	
24916	-Free standing drill column (pipe).	1° 21.0' S 116° 48.0' E	Q.W.	49 15	6		Q.W. 14m 6M close S, on pipe.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDONESIA (BORNEO)							
24918 K 1459.8	Tanjung Manggar.	1° 12.8' S 116° 58.6' E	Fl.(3)W. period 21s fl. 1s, ec. 2.5s fl. 1s, ec. 2.5s fl. 1s, ec. 13s	141 43	18	White metal framework structure; 131.	Radiobeacon.
24920 K 1459	-Tanjung Tokong.	1° 16.5' S 116° 48.5' E	L.Fl.W. period 20s	306 93	25	White building; 26.	Obscured 038° -236° 30' . Reserve light 2 F.W. 10M. F.R. shown during firing practice. Signal station.
	-RACON		T(-)		25		Azimuth coverage 090° - 270° .
24922 K 1459.76	-Tanjung Jenebora.	1° 12.0' S 116° 46.4' E	Fl.R. period 4s	52 16	12	Red beacon.	
24923 K 1459.73	-Tanjung Makasar.	1° 13.0' S 116° 47.1' E	Fl.G. period 5s	52 16	11	Green beacon.	
24923.7 K 1458	Tg. Maruat.	1° 37.4' S 116° 34.5' E	Fl.W. period 10s	52 16	12		
24924 K 1456	Teluk Adang.	1° 45.2' S 116° 28.4' E	Fl.W. period 4s	49 15	8	White beacon.	
24926 K 1457.5	Karang Karangan.	1° 54.4' S 116° 33.6' E	Fl.(3)W. period 15s	49 15	12	E. CARDINAL BYB, beacon.	
24928 K 1455	Teluk Apar.	2° 02.3' S 116° 32.9' E	Fl.W. period 4s	49 15	12	Beacon.	
24929 K 1457	-Tanjung Giling.	2° 03.2' S 116° 28.6' E	Fl.G. period 7.5s	52 16	12	STARBOARD (A) G, beacon, topmark.	
24932 K 1454	Aru Bank.	2° 15.5' S 116° 40.2' E	Q.(3)W. period 10s	42 13	12	E. CARDINAL BYB, beacon, topmark.	Radar reflector.
24936 K 1452	Karang Suling.	2° 22.3' S 116° 43.6' E	Fl.(2)W. period 4s	42 13	12	ISOLATED DANGER BRB, beacon, topmark; 29.	Radar reflector.
24938 K 1449	Karang Unarang.	2° 29.4' S 117° 03.1' E	Fl.(2)W. period 10s	49 15	12	ISOLATED DANGER BRB, beacon, topmark.	
24939 K 1450	-Reef 17.3 miles N.	2° 11.9' S 117° 00.8' E	Q.(9)W. period 15s	49 15	12	W. CARDINAL YBY, beacon, topmark.	
24940 K 1447	Karang Grogot.	2° 43.8' S 116° 45.6' E	Fl.W. period 8s	49 15	12	Beacon.	
24941 K 1446.5	Karang Demung.	2° 50.0' S 117° 04.0' E	Fl.(2)W. period 10s	46 14	11	ISOLATED DANGER BRB, beacon, topmark.	
24942 K 1486.5	Pulau Seturian.	2° 16.2' S 117° 40.0' E	Q.W.	43 13	12	N. CARDINAL BY, beacon, topmark.	
24944 K 1486	Palau Balabalagan Islands.	2° 32.3' S 117° 57.0' E	Fl.(3)W. period 20s	131 40	17	White iron framework; 131.	
24946 K 1488	Pulau Ambungi.	2° 04.6' S 117° 15.8' E	Q.W.	108 33	15	N. CARDINAL BY, metal framework tower; 98.	
24946.5 K 1446	Gosong Takatalu.	3° 04.0' S 117° 42.0' E	Fl.W. period 6s	43 13	12	White beacon.	
24947 K 1445	Pulau Larilarian.	3° 31.0' S 117° 27.1' E	Fl.W. period 5s	105 32	12	White metal framework tower; 98.	
24948 K 1444	Kepulauan Sambergelap, on W. island.	3° 39.0' S 116° 36.0' E	Fl.(3)W. period 17s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 10.5s	69 21	13	White iron skeleton tower; 46.	Obscured by Balang Balangka 261° -266° , and by Sambergelap Island 286° -306° .
24948.5 K 1427.8	Sungai Cuka.	3° 52.2' S 115° 21.7' E	Fl.W. period 6s	49 15	10	White beacon.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDONESIA (BORNEO)							
24949 K 1444.5	Tanjung Mangkok.	3° 22.2' S 116° 25.0' E	Fl.(3)W. period 14s	49 15	12	White beacon.	
24950 K 1439	Tg. Batu Gemuk.	2° 58.0' S 116° 12.0' E	Fl.G. period 3s	23 7	4	STARBOARD (A) G, beacon, topmark.	
24950.5 K 1439.4	-Range, front.	2° 56.5' S 116° 12.3' E	Fl.W. period 2s	16 5	4		
24950.6 K 1439.6	--Rear.	2° 56.3' S 116° 12.4' E	Fl.W. period 10s	19 6	4		Lights exist further up river.
24951 K 1437	Selat Laut Beacon.	3° 12.7' S 116° 17.3' E	Fl.W. period 3s	39 12	5	White mast.	
24952 K 1438	-Tg. Pemancingan Range, front.	3° 13.1' S 116° 16.9' E	Fl.W. period 5s	46 14	12	White beacon, white triangular daymark; 39.	
24956 K 1438.1	-Balingkar Hill , rear, 2.8 miles 257° from front.	3° 13.8' S 116° 14.0' E	Fl.W. period 5s	219 67	15	Iron framework tower, upper part red, lower part white; 66.	
24957 K 1438.2	-Tg Sarantiung.	3° 13.5' S 116° 17.0' E	Q.W.	33 10	4	N. CARDINAL BY, beacon, topmark.	
24957.5 K 1438.4	--S.	3° 13.6' S 116° 16.9' E	Q.(6)+L.Fl.W. period 15s	33 10	4	S. CARDINAL YB, beacon, topmark.	
24960 K 1436	-Kotabaru, mole, head.	3° 14.0' S 116° 13.0' E	F.R.	39 12	3	Wooden mast; 33.	
24960.5 K 1435.8	Kota Baru.	3° 17.0' S 116° 06.5' E	Fl.(2)W. period 10s	49 15	10	White beacon.	3 Fl.Y. 4M lights close N. and SW.
24961 K 1435.7	-Gosong Payung N.	3° 18.1' S 116° 06.1' E	Q.G.	23 7	5	STARBOARD (A) G, beacon, topmark.	
24961.2 K 1435.5	-Gosong Payung S.	3° 20.7' S 116° 05.4' E	Fl.G. period 3s	23 7	5	STARBOARD (A) G, beacon, topmark.	
24962	-S. Songap.	3° 20.8' S 116° 05.9' E	Fl.R. period 2s	23 7	5	PORT (A) R, beacon, topmark.	
24963 K 1435.4	-Beacon.	3° 25.0' S 116° 03.4' E	Fl.R. period 4s	23 7	5	PORT (A) R, beacon, topmark.	
24963.2 K 1435.3	-Suwangi E.	3° 26.4' S 116° 02.4' E	Q.(3)W. period 5s	23 7	5	E. CARDINAL BYB, beacon, topmark.	
24963.4 K 1435.2	-Beacon.	3° 27.5' S 116° 02.4' E	Fl.R. period 2s	23 7	5	PORT (A) R, beacon, topmark.	
24963.5 K 1433	-Gosong Kramat.	3° 30.9' S 116° 01.1' E	Q.(3)W. period 10s	43 13	12	E. CARDINAL BYB, beacon, topmark.	
24964 K 1432	-Tanjung Petang, W. side of S. entrance to strait.	3° 37.0' S 115° 58.0' E	Fl.W. period 5s fl. 0.4s, ec. 4.6s	62 19	6	White iron framework; 62.	Obscured in places from Tg. Kramat to the bearing 223°.
24966 K 1431	-Tg Pangebalan.	4° 01.2' S 116° 01.9' E	Fl.W. period 6s	59 18	12		
24968 K 1430	Pulau Kunit.	4° 05.0' S 116° 02.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	443 135	12	White iron framework; 43.	Visible 237° -177°, except where obscured by islands.
24969 K 1442.2	Tanjung Seloka.	3° 55.1' S 116° 17.8' E	Fl.W. period 6s	36 11	12	White beacon.	
24970 K 1442.1	Pulau Birabirahan.	4° 13.7' S 116° 07.4' E	Fl.W. period 6s	39 12	12	White beacon.	
24972 K 1434	-Suwangi, S. end.	3° 27.1' S 116° 01.4' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	59 18	13	Beacon.	
24973 K 1435	-Batulicin.	3° 26.9' S 116° 00.5' E	Fl.W. period 6s	72 22	12	White metal framework tower; 66.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDONESIA (BORNEO)							
24974 K 1427.4	Pulau Payongpayongan.	4° 22.9' S 115° 50.0' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	105 32	15	White metal framework tower; 33.	
24976 K 1442	Sambargalang (Brothers) Islands.	4° 24.4' S 116° 10.2' E	Fl.W. period 5s fl. 1s, ec. 4s	180 55	24	White metal framework tower; 98.	Obscured 209° -219° from 2-12 miles.
24978 K 1426.5	Pulau Kelambu.	4° 56.1' S 115° 38.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	49 15	12	White beacon.	Radar reflector.
24980 K 1442.5	Sabaru.	5° 06.2' S 117° 04.3' E	Fl.(3)W. period 16s	138 42	18	White metal framework tower; 131.	
24982 K 1442.7	Kalu Kalukuang.	5° 10.5' S 117° 39.6' E	Fl.(4)W. period 30s	144 44	19		
	RACON		K(- • -)				
24984 K 1443	Sibbalds Bank.	5° 45.7' S 117° 07.2' E	Fl.W. period 5s	62 19	15	Black metal framework tower; 26.	
24986 K 1443.5	Doang Doangan Besar.	5° 24.3' S 117° 56.6' E	Fl.(3)W. period 20s	134 41	18	White metal framework tower.	
24987 K 1428	Satui Muara.	3° 49.0' S 115° 28.3' E	Iso.W.R.G. period 5s	59 18	W. 13 R. 10 G. 10	Metal column with gallery; 49.	G. 265° 30' -330° 30' , W.-335° 30' , R.-065° 30' .
24987.3 K 1444.3	Pulau Sebuku, S. coast.	3° 39.1' S 116° 21.7' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	59 18	8	White beacon.	
24987.5 K 1444.2	Pulau Aur.	3° 40.2' S 116° 22.5' E	Fl.W. period 4s	89 27	12	White beacon.	
24987.7 K 1444.4	Pulau Kapak, N. coast.	3° 42.0' S 116° 20.6' E	Fl.(2)R. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	30 9	6	PORT (A) R, beacon, topmark.	
24987.8 K 1422.1	Sg. Rakin, E.	3° 57.2' S 115° 10.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	46 14	10	White framework tower; 39.	
24987.9 K 1422.2	Pt. Mandiri.	3° 56.3' S 115° 11.6' E	Fl.W. period 2.5s fl. 0.5s, ec. 2s	39 12	6	White post; 39.	
24987.95 K 1422.3	IMCM.	3° 56.1' S 115° 12.4' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	59 18	6	White framework tower; 39.	
24988 K 1422	Tanjung Selatan.	4° 10.5' S 114° 39.0' E	L.Fl.W. period 6s	111 34	17	White iron openwork tower; 98.	Visible 274° -106° . Radiobeacon.
24989 K 1420	Tekisung.	3° 53.4' S 114° 36.1' E	Fl.Y. period 3s fl. 0.5s, ec. 2.5s	62 19	14	SPECIAL Y, beacon, topmark.	Radar reflector.
SUNGAI BARITO:							
24992	-Outer Lighted Buoy.	3° 39.7' S 114° 25.7' E	L.Fl.W. period 10s			SAFE WATER RW, pillar.	
24996 K 1413.1	-Outer.	3° 37.4' S 114° 25.5' E	Fl.W. period 3.5s fl. 0.5s, ec. 3s	82 25	9	White beacon.	
24998	-Wreck MV Barito 1.	3° 36.8' S 114° 27.2' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	23 7	8	Green beacon.	
25000 K 1413.3	-Range, front.	3° 32.2' S 114° 29.6' E	Q.W.	92 28	14	White beacon, black bands, white triangular daymark; 36.	Visible 300° -120° .

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDONESIA (BORNEO)							
25004 K 1413.31	--Rear, 1700 meters from front.	028° 30' S 3° 31.2' S 114° 30.1' E	Iso.W. period 4s	82 25	10	White beacon, black bands, white triangular daymark;	Visible 300° -120° .
25012 K 1416	Tanjung Telan.	3° 26.7' S 114° 30.2' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	23 7	8	Red wooden structure.	
25014 K 1417	-Pulau Kaget.	3° 26.0' S 114° 30.2' E	Fl.G. period 7s	30 9	6	STARBOARD (A) G, beacon, topmark.	
25016 K 1418	-Sungai Jinga, W. side of river.	3° 23.7' S 114° 29.6' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s	23 7	8	Red beacon.	
25018 K 1419	-Pulau Kembang.	3° 19.2' S 114° 33.7' E	Fl.W. period 3.5s fl. 1s, ec. 2.5s	49 15	6	White beacon.	
25024 K 1412	Kahayan River.	3° 25.9' S 114° 05.9' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s		15	Beacon.	
25026 K 1412.5	-Range, front.	3° 21.5' S 114° 03.7' E	Fl.W. period 1.5s fl. 0.5s, ec. 1s	33 10	8	White framework structure;	30.
25026.1 K 1412.51	--Rear, 370 meters from front.	359° from 3° 21.2' S 114° 04.2' E	L.Fl.W. period 5s fl. 2s, ec. 3s	59 18	10	White beacon, cone topmark, point down.	
25028 K 1412.3	Kahayan, mouth of river.	3° 25.6' S 114° 05.2' E	Fl.(2)R. period 4.5s	36 11	6	Red beacon.	
25028.5 K 1411.72	Gosong Schunyer.	3° 19.4' S 113° 20.3' E	Fl.W. period 5s	43 13	12	White metal framework tower;	33.
25029 K 1411.75	Malatayur.	3° 48.0' S 113° 38.5' E	Fl.(2)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 8s	43 13	12	Beacon.	
25030 K 1411.8	Tanjung Serambut.	2° 59.4' S 113° 03.2' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	49 15	6		
25032 K 1411.6	Tanjung Bandaran.	3° 07.7' S 113° 03.8' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	49 15	8	White iron framework structure;	Radar reflector. 49.
25036 K 1411.4	Tanjung Siamok.	3° 26.8' S 112° 34.3' E	Q.(2)W. period 5s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 3.5s	66 20	9	White metal framework tower;	49.
25040 K 1411.2	Tanjung Puting.	3° 30.6' S 111° 46.8' E	Fl.(3)W. period 14s	103 31	17		
25042 K 1411.22	Sangora Banks.	3° 14.0' S 111° 39.0' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	33 10	11	Beacon.	
25042.5 K 1411.23	Gosong Beras Besah, S.	3° 06.6' S 111° 32.8' E	Fl.W. period 5s	33 10	10	White beacon;	26.
25043 K 1411.24	-N.	3° 05.6' S 111° 32.8' E	Fl.W. period 5s	42 13	12	Fiberglass tower.	
25044 K 1411	Tg. Putri.	2° 55.0' S 111° 23.0' E	Fl.R. period 2s	36 11	6	Red beacon.	
25046 K 1411.25	Tg. Kluang.	2° 54.3' S 111° 42.2' E	Fl.W. period 5s	39 12	10	White beacon.	
25047 K 1411.3	-Tg. Pangerangan Range, front.	2° 50.1' S 111° 43.9' E	Iso.W. period 2s	29 9	10		
25047.1 K 1411.31	--Rear, 897 meters from front.	031° 06' 2° 49.7' S 111° 44.0' E	Iso.W. period 4s	52 16	12		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDONESIA (BORNEO)							
25048 K 1036	Fox Banks.	3° 30.7' S 110° 11.0' E	Fl.(4)W. period 20s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 13.5s	46 14	12	White metal framework structure; 33.	
25049 K 1410.3	Gosong Mangkut.	3° 06.7' S 110° 15.0' E	Fl.(2)W. period 5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 2.5s	49 15	12	ISOLATED DANGER BRB, beacon, topmark.	
25050 K 1410	Pulau Bawal, Tanjung Rotan.	2° 44.8' S 110° 02.5' E	Fl.(3)W. period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	220 67	18		
25051 K 1033.8	Karang Batuan.	3° 16.0' S 108° 57.9' E	Fl.(2)W. period 10s	43 13	12	ISOLATED DANGER BRB, beacon, topmark.	
25052 K 1034	Gosong Mampango (Discovery East Bank).	3° 34.7' S 109° 10.0' E	Fl.W. period 5s	43 13	12	White metal framework tower, red bands; 65.	Radar reflector.
	RACON		D(- • •)				
25053 K 1033.6	Gosong Abadi.	3° 38.7' S 108° 45.2' E	Fl.(2)W. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	43 13	12	ISOLATED DANGER BRB, beacon, topmark.	
25054 K 1033.5	Karang Satatan.	3° 21.9' S 108° 37.0' E	Fl.W. period 3s	36 11	11	White beacon.	
25055 K 1031	Karang Florence Adelaide.	2° 04.1' S 108° 04.6' E	Fl.(2)W. period 8s	43 13	12	White beacon.	
25056 K 1033	Pulau Pesemut.	2° 30.0' S 108° 50.0' E	L.Fl.W. period 5s	141 43	17	White metal framework structure; 131.	Radiobeacon.
25058 K 1405.5	Karang Ontario.	1° 59.8' S 108° 38.9' E	Fl.(2)W. period 5s	49 15	12	ISOLATED DANGER BRB, column, topmark.	
25060 K 1406	Palau Serutu.	1° 43.0' S 108° 42.7' E	Q.(3)W. period 10s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 7.5s	574 175	36	White iron skeleton tower; 83.	
	RACON		T(-)		10		
25064 K 1407	Lemen Boedi.	1° 16.3' S 108° 52.3' E	Fl.(2)W. period 8s	157 48	15	White metal framework structure; 49.	
25064.1 K 1407.5	Pulau Layah Kecil.	1° 31.3' S 109° 20.2' E	Fl.(2)W. period 15s	235 72	22	White metal framework structure; 131.	
25064.2 K 1407.2	Pulau Suka.	1° 20.8' S 109° 07.0' E	Fl.(2)W. period 6s	49 15	13		
25064.3 K 1407.3	Pulau Buan.	1° 28.2' S 109° 02.9' E	Fl.(2)W. period 8s	49 15	13		
25064.4 K 1407.7	Pulau Macan.	1° 38.9' S 109° 20.6' E	Fl.(2)W. period 5s	164 50	19		
KETAPANG:							
25065 K 1408	-Front.	1° 45.9' S 109° 56.5' E	Iso.W. period 2s	20 6	7	Beacon, black and white bands, white triangular daymark.	
25066 K 1408.1	--Rear, 126 meters 115° 30' from front.	1° 46.0' S 109° 56.6' E	Oc.W. period 4s lt. 3s, ec. 1s	26 8	7	Beacon, black and white bands, white triangular daymark.	
25066.2 K 1409	-Range, front.	1° 45.5' S 109° 56.7' E	Fl.W. period 1.5s	20 6	5		Visible 229° -049°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDONESIA (BORNEO)							
25066.4 <i>K 1409.1</i>	--Rear, 227 meters 325° 30' from front.	1° 45.5' S 109° 56.0' E	Iso.W. period 4s	26 8	5	White triangular daymark.	Visible 224° -044° .
25067 <i>K 1408.3</i>	-Harbor.	1° 47.5' S 109° 57.5' E	Iso.W.G. period 2s	49 15	7	Black and white banded structure.	
25068 <i>K 1402</i>	Tanjong Padang Tikar.	0° 39.8' S 109° 15.0' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	49 15	7	White framework tower, black bands; 49.	
25068.5	Telok Air.	0° 40.5' S 109° 21.8' E	L.Fl.W. period 8s fl. 2s, ec. 6s	52 16	13	White wooden framework structure; 19.	
25068.7 <i>K 1400</i>	Tanjung Putus.	0° 16.6' S 109° 04.6' E	Fl.(3)W. period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 10.5s	49 15	13	White beacon.	
25069 <i>F 1872.6</i>	-Sungei Siak.	0° 00.1' S 109° 17.6' E	Q.G.	26 8	6	White metal framework structure; 26.	
25072 <i>F 1872</i>	-River mouth, front.	0° 04.2' N 109° 09.8' E	Fl.R. period 2s	30 9	4	White triangular daymark on beacon, black bands; 30.	
			F.R.				
	-RACON		K(- • -)		10		
25076 <i>F 1872.1</i>	--Rear, 1720 meters 103° 30' from front.	0° 04.0' N 109° 10.8' E	F.R.	82 25	10	Beacon, white triangular daymark; 26.	
25077 <i>F 1872.3</i>	-Jungkat.	0° 02.9' N 109° 12.7' E	Fl.R. period 4s	39 12	6	Red beacon.	
25077.2 <i>F 1872.4</i>	-Tg. Wajak.	0° 01.7' N 109° 14.5' E	Fl.R. period 2s	26 8	6	Red metal framework structure; 33.	
25077.4 <i>F 1872.5</i>	--About 1.5 miles NW. of of Batu Layang.	0° 00.6' N 109° 16.7' E	Iso.R. period 2s	26 8	6	White metal framework structure; 26.	
25079 <i>F 1873.2</i>	-Oil jetty.	0° 00.4' N 109° 19.8' E	Fl.(4)W. period 8s	49 15	10	White metal beacon; 33.	F.R. shown on beacons upstream.
25080 <i>F 1880</i>	Pulau Pengiki.	0° 15.0' N 108° 02.3' E	Fl.(3)W. period 20s fl. 1s, ec. 3s fl. 1s, ec. 3s fl. 1s, ec. 11s	676 206	20	White framework tower; 49.	
25081 <i>F 1879</i>	Pulau Datu.	0° 07.6' N 108° 36.4' E	Fl.(3)W. period 9s	203 62	15		Visible 190° -030° .
25082 <i>F 1883</i>	Pulau Sitijan.	0° 22.1' N 108° 44.8' E	Fl.(2)W. period 15s	294 90	24	White concrete tower.	
25084 <i>F 1885</i>	Pulau Lemoekoetan.	0° 46.9' N 108° 42.4' E	Fl.(3)W. period 10s	1030 314	13	White metal framework tower; 59.	
25086 <i>F 1887</i>	Tambelan.	0° 58.4' N 107° 32.7' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	39 12	12	Red beacon.	
25086.2 <i>F 1887.5</i>	Karang Takongmangirang.	0° 51.0' N 107° 37.2' E	Q(2).W. period 8s	49 15	12	White fiberglass tower; 33.	Radar reflector.
25086.3 <i>F 1888</i>	Pulau Jangkulan.	0° 44.6' N 107° 19.5' E	Fl.(3)W. period 15s	49 15	13		
25086.4 <i>F 1888.5</i>	Tokong Kemudi.	0° 55.7' N 106° 44.0' E	Fl.W. period 5s fl. 1s, ec. 4s	427 130	12	White beacon.	
25086.5 <i>F 1889</i>	Pualu Dumdum.	1° 11.5' N 106° 53.1' E	Fl.W. period 3s	49 15	13	White beacon; 39.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDONESIA (BORNEO)							
25088 <i>F 1890</i>	Tg. Batu, N. extremity of Pulau Penibuengan.	1° 11.0' N 108° 58.0' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	36 11	8		
25092 <i>F 1891</i>	Pulau Pekak, W. of Tg. Kalang Base.	1° 11.8' N 108° 55.3' E	Fl.R. period 3s	49 15	13	Red beacon; 36.	
25094 <i>F 1892</i>	Pemangkat Range, front.	1° 11.5' N 108° 58.3' E	Iso.W. period 2s	49 15	12	White beacon, black bands, white triangular daymark, point up; 33.	
25094.2 <i>F 1892.1</i>	-Rear, 1148 meters, 094° 15' from front.	1° 11.6' N 108° 59.0' E	Iso.W. period 4s	65 20	14	White beacon, black bands, white triangular daymark, point down; 46.	
25096 <i>F 1854</i>	Pulau Murih.	1° 54.0' N 108° 39.0' E	Fl.W. period 6s	335 102	25	White iron framework structure; 66.	
	RACON		K(- • -)		10		
KEPULAUAN NATUNA:							
25100 <i>F 1850</i>	-Pulau Merundung.	2° 04.3' N 109° 05.8' E	Fl.(3)W. period 15s fl. 0.7s, ec. 2.5s fl. 0.7s, ec. 2.5s fl. 0.7s, ec. 7.9s	121 37	18	White iron framework tower; 98.	
25104 <i>F 1847</i>	Serasan.	2° 29.8' N 109° 00.7' E	L.Fl.W. period 9s	39 12	7		
25106 <i>F 1848</i>	-Batu Pacil.	2° 28.5' N 109° 00.7' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	41 12	11	Red metal framework tower, red square daymark.	Fl.G. 3s 10M close E.
25107 <i>F 1845</i>	Pulau Seraja.	2° 04.1' N 108° 34.1' E	Fl.W. period 6s fl. 1s, ec. 5s	318 97	24	White beacon.	
25108 <i>F 1844</i>	-Pulau Subi-kechil.	3° 03.2' N 108° 50.8' E	Fl.W. period 5s	272 83	24	White iron skeleton tower; 72.	Obscured 337°-024° by Subi Besar and 040°-042° by Bakan Island.

Section 16

Sulawesi, Halmahera, Lesser Sunda Islands and New Guinea

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDONESIA SULAWESI (CELEBES)							
25111.7 F 2051	Dolangan Island.	1° 22.7' N 120° 53.1' E	Fl.W. period 6s fl. 1s, ec. 5s	75 23	12	White beacon; 49.	
25112 F 2050	Tanjung Malagka.	1° 20.5' N 120° 48.1' E	Fl.W. period 5s	187 57	21	White iron skeleton tower; 46.	Obscured in places by Pulau Dalangan, Pulau Kapas, and the coast.
	RACON		M(- -)				
25113 F 2052	Kandi.	1° 19.0' N 121° 27.5' E	Fl.(3)W. period 20s fl. 0.4s, ec. 2.6s fl. 0.4s, ec. 2.6s fl. 0.4s, ec. 13.6s	394 120	26		
25114 F 2040	Manimbaya.	0° 00.0' N 119° 36.7' E	Fl.(2)W. period 20s fl. 0.4s, ec. 9.6s fl. 0.4s, ec. 9.6s	164 50	18		
25116 F 2048	Tg. Labuan Dedeh.	1° 03.0' N 120° 48.0' E	Fl.W. period 3s	52 16	10		
25118 F 2046	Simatang.	1° 04.5' N 120° 23.6' E	Fl.(2)W. period 8s	102 31	16		
25119 F 2045	Lingian.	0° 59.9' N 120° 13.0' E	Fl.W. period 3s	49 15	12	White beacon.	
25120 F 2044	Pulau Tugguan.	0° 35.0' N 119° 48.0' E	Fl.W. period 5s	302 92	23	White iron skeleton tower; 65.	
	RACON		T(-)				
25121 F 2047	Tg. Paligisan.	1° 01.5' N 120° 40.7' E	Fl.W. period 10s	102 31	16		
25122 F 2047.5	Palau Latungan.	1° 03.2' N 120° 46.9' E	Fl.(2)W. period 8s	147 45	18		
25124 F 2054	Leok, at customhouse.	1° 12.0' N 121° 26.0' E	Fl.R.	59 18	2	Wooden post.	
25126 F 2058	Karang Baliogut.	1° 08.1' N 122° 26.4' E	Fl.W. period 3s	39 12	8	Beacon.	
25128 F 2060	Pulau Hulawa.	0° 58.0' N 122° 54.0' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	131 40	12	White metal framework tower.	Visible 103°-013°.
25129 F 2061.1	Karang Otilade.	0° 54.7' N 122° 50.9' E	Fl.W. period 12s	39 12	11	White beacon.	

The lighted aids of Indonesia are unreliable and may be extinguished, off station, missing or showing improper characteristics.

INDONESIA SULAWESI (CELEBES)-ADJACENT ISLANDS

25132 F 2062	Teluk Kuandang.	0° 51.5' N 122° 54.4' E	Fl.W. period 3s	39 12	12		
25134 F 2062.5	Pulau Bangkil.	1° 03.0' N 123° 06.4' E	Fl.W. period 5s	56 17	13	White fiberglass tower; 33.	Radar reflector.

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(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
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INDONESIA SULAWESI (CELEBES)-ADJACENT ISLANDS

25136 <i>F 2063</i>	Lubuan Boroko.	0° 56.0' N 123° 16.0' E	F.W.		1		Occasional.
25137 <i>F 2063.3</i>	Pulau Tikus.	0° 51.6' N 123° 55.6' E	Fl.W. period 3s fl. 0.6s, ec. 2.4s	49 15	12		
25139 <i>F 2063.8</i>	Tg Lobu.	0° 59.7' N 124° 12.7' E	Fl.W. period 5s	80 24	14	White fiberglass beacon; 33.	Radar reflector.
25140 <i>F 2064</i>	Amurang, about 489 meters 270° from Controleur flagstaff.	1° 11.4' N 124° 34.0' E	Fl.W. period 3s	30 9	10	Wooden post; 20.	
25142 <i>F 2064.4</i>	Tetapaan.	1° 18.0' N 124° 30.0' E	Fl.R. period 3s	39 12	11	Red beacon.	

TELUK MANADO:

25144 <i>F 2066</i>	-Manado.	1° 29.0' N 124° 50.0' E	L.Fl.W. period 8s fl. 2s, ec. 6s	105 32	15	White iron framework structure; 39.	
25148 <i>F 2068</i>	--S. mole, head.	1° 29.9' N 124° 50.1' E	Fl.G. period 3s	39 12	11		
25152 <i>F 2070</i>	--N. mole, head.	1° 29.9' N 124° 50.1' E	Fl.R. period 3s	39 12	11		

PULAU TALISEI:

25156 <i>F 2072</i>	-Tanjung Arus.	1° 53.4' N 125° 05.3' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	354 108	24	White iron skeleton tower; 65.	Visible 072° -360° except where obscured by Bangka Island.
	-RACON		T(-)				

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INDONESIA SULAWESI (CELEBES)

25156.2 <i>F 2070.5</i>	Manterawu Island.	1° 45.7' N 124° 44.1' E	Fl.(2)W. period 10s fl. 1s, ec. 1s fl. 1s, ec. 7s	164 50	20	White tower; 131.	
25156.5 <i>F 2071</i>	Likupang.	1° 40.6' N 125° 03.5' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	33 10	11	White beacon.	

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INDONESIA SULAWESI (CELEBES)-ADJACENT ISLANDS

25157	Batukapal.	1° 32.8' N 125° 17.2' E	Fl.W. period 4s	115 35	17	White beacon.	
25158 <i>F 2077</i>	Selat Lembah, Tg Batu Angus.	1° 30.3' N 125° 14.8' E	Fl.G. period 3s	49 15	12		
25160 <i>F 2078</i>	Lembah Strait, middle part.	1° 28.0' N 125° 14.0' E	Fl.R. period 3s	59 18	8		

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(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDONESIA SULAWESI (CELEBES)-ADJACENT ISLANDS							
25162	Pulau Susulina.	1° 24.5' N 125° 13.3' E	Iso.W. period 6s	82	15	White beacon.	
25164 F 2079.5	Pulau Lembeh, SW. of island on rock.	1° 23.4' N 125° 09.8' E	Fl.(2)G. period 10s	56	10	White metal framework tower, black bands.	Visible 287° 30' -208° .
25168 F 2079.6	Lilang.	1° 19.3' N 125° 04.2' E	Fl.W. period 3s fl. 1s, ec. 2s	230	20	White metal framework tower; 98.	
25169 F 2079.7	Pakolor.	0° 58.5' N 124° 57.0' E	Fl.W. period 4.5s	413	27	White house.	
25171 F 2079.8	Bentenan.	0° 57.1' N 124° 54.1' E	Fl.(3)W. period 12s	49	12		

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INDONESIA (HALMAHERA-SULAWESI (CELEBES)-ADJACENT ISLANDS)							
25172 F 2079	Tg. Labuan Compenie.	1° 25.9' N 125° 11.1' E	Fl.(3)W. period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9.5s	190	6	White iron framework structure, black bands; 33.	Obscured eastward of 035° 30' by Lembeh Island.
25176 F 2114	Pasige.	2° 21.2' N 125° 17.6' E	Fl.W. period 2.5s fl. 0.5s, ec. 2s	49	12	Beacon.	
25180 F 2116	Pulau Tahulandang, near flagstaff.	2° 20.0' N 125° 24.0' E	F.R.	46	2	White metal column.	
25184 F 2120	Pulau Siau, Ulu, Government wharf.	2° 43.8' N 125° 24.6' E	Fl.W. period 3s	49	12	Metal column.	Not visible bearing less than 261° . Exhibited on arrival of vessels.
25186 F 2119	Mahora.	2° 39.0' N 125° 29.3' E	Fl.(2)W. period 8s	262	23		
25188 F 2120.5	-Toade Manandoe.	3° 24.8' N 125° 31.7' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	65	14	White beacon.	
25190 F 2123	Tahuna.	3° 35.9' N 125° 29.1' E	Fl.W. period 3s fl. 1s, ec. 2s	426	25		
25192 F 2124	Pulau Sangihe.	3° 36.8' N 125° 29.2' E	Fl.(2)W. period 8s	105	16		Visible 036° -074° . Exhibited on arrival of vessels.
25194 F 2127	Pulau Beng.	3° 29.0' N 125° 43.7' E	Fl.W. period 5s	348	16	White fiberglass tower; 33.	Radar reflector.
25196 F 2126	-Peta, pier, head.	3° 39.0' N 125° 34.0' E	F.R.	29	2		
25196.5 F 2127.5	Pulau Manipa.	3° 45.2' N 125° 33.4' E	Fl.W. period 10s	226	24	White beacon; 98.	
25197 F 2128	Salehe.	3° 52.5' N 125° 43.4' E	Fl.(2)W. period 10s	263	23		
25197.2 F 2137	Dumarehe Island.	4° 14.0' N 125° 42.2' E	Fl.W. period 4s fl. 1s, ec. 3s	112	15	White metal framework structure; 33.	
25197.5 F 2136	Palau Kawalusu.	4° 14.2' N 125° 19.3' E	Fl.W. period 8s fl. 0.5s, ec. 7.5s	262	23		

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(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDONESIA (HALMAHERA-SULAWESI (CELEBES)-ADJACENT ISLANDS)							
25197.8 <i>F 2133.5</i>	Tg. Palle.	3° 43.8' N 126° 49.4' E	Fl.W. period 10s	213 65	24	White beacon; 131.	
25198 <i>F 2133</i>	Lirung.	3° 56.4' N 126° 41.8' E	Fl.W. period 3s	39 12	12	Beacon.	
25198.5 <i>F 2132.5</i>	Tg Salonggaka.	4° 02.7' N 126° 37.1' E	Fl.(2)W. period 6s fl. 0.3s, ec. 1s fl. 0.3s, ec. 4.4s	66 20	14		
25199 <i>F 2134</i>	Karatung.	4° 44.0' N 127° 04.0' E	Fl.W. period 3s	39 12	12	Beacon.	
25200 <i>F 2135</i>	Marore.	4° 44.5' N 125° 28.7' E	Fl.(2)W. period 10s	591 180	23		
	RACON		O(---)				
25200.2 <i>F 2134.8</i>	Kawio Island.	4° 40.5' N 125° 25.6' E	Fl.(2)W. period 10s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	197 60	20	White beacon; 98.	
25200.5 <i>F 2134.5</i>	Kemboling Island.	4° 39.3' N 125° 26.1' E	Fl.W. period 6s fl. 1s, ec. 5s	171 52	16	White metal framework structure; 33.	
25201 <i>F 2135.5</i>	Pulau Manutuang.	4° 26.4' N 125° 41.5' E	Fl.W. period 5s	351 107	25	White lighthouse.	
25202 <i>F 2132</i>	Tg. Ambora.	4° 32.7' N 126° 44.7' E	Fl.(3)W. period 20s	138 42	40		
25204 <i>F 2130</i>	Teluk Beo, Pulau Karake long, NE. of flagstaff.	4° 14.0' N 126° 48.0' E	FR.	62 19	2	White iron pole; 33.	Obscured on a bearing of 57° .
25208 <i>F 2100</i>	Ternate, pier, head.	0° 47.0' N 127° 23.0' E	FR.	26 8	4	White mast.	
25210 <i>F 2107.3</i>	Pulau Makian.	0° 19.8' N 127° 20.7' E	Fl.W. period 5s fl. 1s, ec. 4s	82 25	15	White metal framework tower; 66.	
25212 <i>F 2105</i>	-Tanjung Kahu Merah.	0° 45.5' N 127° 22.0' E	Fl.(2)W. period 15s	105 32	16		
25216	G. Ternate, S. end of island.	0° 46.0' N 127° 19.0' E	Q.(4)W. period 8s				
25217 <i>F 2106</i>	Pulau Hiri.	0° 53.9' N 127° 18.3' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	377 115	18	White metal framework tower; 98.	
HALMAHERA:							
25218 <i>F 2109</i>	-Tg. Loleo.	1° 06.3' N 127° 47.0' E	Fl.(2)W. period 7s fl. 1s, ec. 1s fl. 1s, ec. 4s	46 14	12	White beacon.	
25219 <i>F 2109.2</i>	-Wangeotak.	1° 07.5' N 127° 52.5' E	Fl.G. period 4s fl. 0.5s, ec. 3.5s	26 8	6	STARBOARD (A) G, beacon, topmark.	
25220 <i>F 2110.5</i>	-Kupakupa.	1° 37.4' N 127° 59.4' E	Fl.W. period 3s		10		
25222 <i>F 2110</i>	-Tobelo.	1° 43.5' N 128° 00.5' E	FR.	29 9	2	White metal framework tower; 20.	
25222.3 <i>F 2110.5</i>	-Tanjung Haaka.	1° 37.5' N 127° 59.8' E	Fl.W. period 3s	42 13	12	White beacon.	

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INDONESIA (HALMAHERA-SULAWESI (CELEBES)-ADJACENT ISLANDS)							
25222.4 F 2110.3	-Sidanga.	1° 39.8' N 127° 28.9' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	305 93	18	White metal framework tower; 98.	
25222.45 F 2107.8	-Tanjung Bobo.	1° 02.5' N 127° 24.5' E	Fl.(2)W. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	689 210	30	White metal framework tower; 131.	
25222.5 F 2111.5	Dododahohe.	1° 58.0' N 128° 12.5' E	Iso.W. period 3s	43 13	11		
25222.55 F 2111.3	-Tanjung Sopi.	2° 38.6' N 128° 33.9' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	305 93	20	White metal framework structure; 131.	
25222.6 F 2111.8	Tanjung Sofa.	0° 02.5' N 129° 17.5' E	Fl.W. period 10s fl. 0.5s, ec. 9.5s	233 71	20		
25222.65 F 2109.8	Pulau Yiew.	0° 43.6' N 129° 08.0' E	Fl.(2)W. period 10s fl. 1s, ec. 1s fl. 1s, ec. 7s	131 40	20	White tower; 131.	
25222.7 F 2107.5	Pasirputih.	1° 19.0' N 126° 21.5' E	Fl.W. period 3s fl. 1s, ec. 2s	131 40	15	White metal framework tower.	
25222.8 F 2107.56	Pulau Mayu.	1° 19.7' N 126° 24.9' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	108 33	17	White metal framework structure; 66.	
25223 F 2108	-Jailulo.	1° 03.8' N 127° 27.8' E	F.R.	29 9	3	White metal framework tower; 20.	
25224 F 2107	Tidore, Soasiu.	0° 39.0' N 127° 26.0' E	F.R.	26 8	3		
25228 F 2082	Pulau Pardana.	0° 26.0' N 124° 28.0' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	241 73	6	White iron framework; 72.	Visible 232° -076° . Temporarily showing Fl.(3)W. 32s.
TELUK TOMINI:							
25232 F 2083	-Gorontalo, E. bank of river, N. side of gulf.	0° 29.5' N 123° 03.5' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	119 36	12	White iron framework structure; 19.	Visible 320° 30' -049° 30' .
25234 F 2083.3	Harbormaster's Office.	0° 29.8' N 123° 03.2' E	Fl.W. period 3s	66 20	14		
25236 F 2086	-Moutong	0° 28.1' N 121° 14.0' E	Fl.W. period 5s	33 10	2	Beacon.	
25237 F 2087	Tomini.	0° 30.4' N 120° 32.5' E	Fl.(2)W. period 8s	46 14	12		
25238 F 2086.5	Panabean.	0° 16.6' N 121° 14.6' E	Fl.(2)W. period 8s	102 31	16		
25238.5	Pulau Una-una.	0° 07.9' S 121° 38.5' E	Fl.W. period 3s	43 13	12	White beacon.	
25239 K 1578	Pasir Tengah.	0° 24.0' S 121° 38.1' E	Fl.W. period 4s	49 15	12	White beacon.	
25240 K 1576	-Parigi, on beach.	0° 48.8' S 120° 10.5' E	Fl.W. period 7s fl. 1s, ec. 6s	98 30	6	White iron framework; 20.	Emergency light.
25242	Labuandedeh.	1° 03.2' S 120° 48.0' E	Fl.W. period 3s	52 16	10	White beacon.	

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INDONESIA (HALMAHERA-SULAWESI (CELEBES)-ADJACENT ISLANDS)							
25244 K 1575	--Fuel Depot	1° 23.1' S 120° 42.7' E	Fl.W. period 5s	33 10			
25248 K 1574	-Poso Road, pier, head.	1° 22.0' S 120° 45.0' E	Fl.W. period 3s	52 16	10	Wooden post; 13.	<i>Reported extinguished (Nov. 1983).</i>
25248.5 K 1572.5	Karang Pagaimana.	0° 47.3' S 122° 39.2' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s	26 8	10	PORT (A) R, beacon, topmark.	
25249 K 1565.5	Mendono.	1° 08.5' S 122° 42.5' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	46 14	12		
25252 K 1566	-Luwuk Road.	0° 56.9' S 122° 47.6' E	Fl.W. period 5s	59 18	13	Metal mast; 26.	
25256 K 1566.3	--Pertamina.	0° 56.4' S 122° 48.4' E	Fl.(4)W. period 10s	36 11	12	White beacon.	
25257	--Luwuk.	0° 57.1' S 122° 47.6' E	Fl.R. period 3s	33 10	11	Red beacon.	
25258 K 1572.4	Pagimana.	0° 47.9' S 122° 38.5' E	Fl.(2)W. period 8s	131 40	17	Beacon.	
25260 K 1572	-Selat Walera, drying reef, on E. side.	0° 25.0' S 122° 25.5' E	Fl.(3)W. period 20s	62 19	7	Black iron structure.	
25260.2 K 1571.5	Pulau Pasir.	0° 27.8' S 122° 48.5' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	49 15	12	White beacon.	
25260.5	Pulau Sensiri.	0° 28.7' S 122° 55.7' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	49 15	12		
25261	Pulau Buka-Buka.	0° 44.1' S 121° 45.4' E	Fl.(2)W. period 7s fl. 1s, ec. 1s fl. 1s, ec. 4s	49 15	12		
25262 K 1580	Tg Komnali.	0° 12.3' S 122° 14.2' E	Fl.(2)W. period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6s	164 50	19		
25264 K 1563	Tomori Bay.	1° 58.8' S 121° 51.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	59 18	8	Black and white bands.	
25266 K 1563.2	-Teluk Tomari.	2° 00.7' S 121° 33.6' E	Fl.R. period 4s	46 14	12	Red beacon.	
25268 K 1563.5	-Tanjung Bea.	1° 57.8' S 121° 37.5' E	Fl.W. period 4s	52 16	8	White metal framework tower; 49.	
25272 K 1564	-Tanjung Mposo.	1° 57.0' S 121° 32.5' E	Fl.G. period 6s fl. 1.5s, ec. 4.5s	52 16	11	White beacon, black bands.	
25273 K 1564.2	Karang Dalam Oll.	1° 54.5' S 121° 28.0' E	Fl.W. period 4s	49 15	12	White beacon.	
25274 K 1564.7	Kolonodale.	1° 59.4' S 121° 20.1' E	Fl.(2)W. period 8s	108 33	16		
25274.2 K 1564.8	Karang Thames.	1° 33.2' S 122° 38.6' E	Fl.R. period 4s fl. 1.5s, ec. 2.5s	46 14	12	Red beacon.	
25274.3 K 1565	Tg. Kembani.	1° 35.9' S 122° 52.8' E	Fl.W. period 10s	72 22	24	White beacon.	

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INDONESIA (HALMAHERA-SULAWESI (CELEBES)-ADJACENT ISLANDS)							
25274.4 K 1564.9	Karang Bungku.	2° 32.6' S 121° 58.4' E	Fl.W. period 4s fl. 1.5s, ec. 2.5s	46 14	12	White beacon.	
25274.6 K 1562.93	Tg Losoni.	2° 40.0' S 122° 02.0' E	Fl.(4)W. period 10s fl. 0.2s, ec. 2.1s fl. 0.2s, ec. 2.1s fl. 0.2s, ec. 2.1s fl. 0.2s, ec. 2.9s	164 50	20	White lighthouse.	
25275 K 1566.6	Tg Tobo.	1° 09.7' S 123° 06.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	56 17	13		
25275.5 K 1566.7	Tg Bankalanutara.	1° 09.3' S 123° 17.8' E	Fl.W. period 6s fl. 1s, ec. 5s	164 50	19		
25275.58 K 1567.6	Pondipondi.	1° 13.0' S 123° 24.5' E	Fl.W. period 4s fl. 0.8s, ec. 3.2s	276 84	15	White beacon.	
25275.6 K 1566.8	Tg Montok.	1° 14.1' S 123° 14.8' E	Fl.G. period 5s	29 9	9	STARBOARD (A) G, beacon, topmark.	
25275.7 K 1567.5	Lamobuang.	1° 18.3' S 123° 17.6' E	Fl.G. period 3s	23 7	6	STARBOARD (A) G, beacon, topmark.	
25275.8 K 1567.7	Tanjung Sambuit.	1° 24.0' S 123° 32.3' E	Fl.W. period 4s fl. 1s, ec. 3s	46 14	12	White beacon.	
25275.9 K 1567.8	Pulau Toulon Besar.	1° 31.7' S 123° 28.9' E	Fl.R. period 5s fl. 1s, ec. 4s	46 14	12	Red beacon.	
25276 K 1568	Pulau Banggai, pier, foot.	1° 35.0' S 123° 29.0' E	Fl.R.	13 4	2	Wooden post.	
25278 K 1559.95	Karang Samaringa.	3° 22.7' S 122° 48.9' E	Fl.R. period 5s	43 13	11	Red beacon.	
25278.5 K 1559.97	Dehaan Island.	3° 29.1' S 122° 29.1' E	Fl.(4)W. period 10s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 3.2s	180 55	23	White concrete beacon; 33.	
25279 K 1559.8	P. Manui.	3° 37.1' S 123° 10.5' E	Fl.W. period 4s	148 45	15	White beacon.	
25280 K 1559	Saponda on middle islet.	3° 58.6' S 122° 46.0' E	Fl.W. period 4s	39 12	12	Beacon.	Radar reflector.
25284 K 1559.5	Sappa Djawbi Bank.	3° 58.0' S 122° 40.0' E	Fl.R. period 6s	49 15	5	Red beacon.	
25285 K 1559.75	Karang Langgara Bugis.	4° 01.5' S 122° 58.7' E	Fl.(3)G. period 10s	23 7	6	STARBOARD (A) G, beacon, topmark.	
25286 K 1559.74	Karang Langgara Bajo.	4° 01.2' S 122° 58.7' E	Fl.(3)R. period 10s	23 7	6	PORT (A) R, beacon, topmark.	
25288 K 1559.7	Wowoni Island, Tg. Pemali.	3° 58.8' S 123° 01.0' E	Fl.(4)W. period 20s	144 44	25		
25289 K 1559.9	-Tg Watutembatu.	4° 05.5' S 123° 15.3' E	Fl.(4)W. period 10s fl. 0.2s, ec. 2.1s fl. 0.2s, ec. 2.1s fl. 0.2s, ec. 2.1s fl. 0.2s, ec. 2.9s	213 65	22	White lighthouse.	
25290 K 1560.3	Teluk Kendari Range, front.	3° 58.3' S 122° 36.2' E	Iso.W. period 4s	30 9	8		

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INDONESIA (HALMAHERA-SULAWESI (CELEBES)-ADJACENT ISLANDS)							
25290.2 K 1560.31	-Rear, 13 meters from front.	3° 58.3' S 122° 36.1' E	Iso.W. period 2s	36 11	8		
25292 K 1560	Bungku Toko.	3° 58.3' S 122° 36.4' E	Fl.W.R. period 2s	39 12	12	Red and white beacon; 30.	R. 260° -298° , W.-260° .
25296 K 1560.05	-Tanjung Kendari.	3° 59.0' S 122° 36.0' E	Fl.R. period 2s	39 12	5	Red beacon.	
25300 K 1560.2	Langi Bajo.	3° 59.0' S 122° 36.0' E	Fl.G. period 3s	72 22	6	White beacon; 30.	
25308 K 1562	Kendari.	3° 58.0' S 122° 35.0' E	Fl.W. period 3s	46 14	10	White iron mast; 29.	
25310 K 1558.7	S. Campada.	4° 11.8' S 122° 54.8' E	Fl.R. period 4s	56 17	10	Red beacon.	
25311 K 1558.4	Tg. Buton.	4° 22.3' S 123° 04.8' E	Fl.W. period 3s	197 60	15	Beacon.	
25312 K 1558.5	Karang Cempanda, W.	4° 12.9' S 122° 55.0' E	Fl.R. period 3s	56 17	6	Red beacon.	<i>Temporarily extinguished (1988).</i>
25316 K 1558.6	-East.	4° 12.4' S 122° 56.1' E	Fl.G. period 4s fl. 0.5s, ec. 3.5s	10 3	4	Green beacon, green triangular daymark.	
25317 K 1550.5	Tanjung Loba.	4° 31.9' S 122° 52.3' E	Fl.(2)W. period 8s	105 32	15	White beacon.	
25317.2 K 1549.4	Selat Tioro, Turubulu.	4° 27.0' S 122° 27.7' E	Fl.W. period 3s	43 13	10	White beacon.	
25317.6 K 1549.7	Selat Tioro, Tampo.	4° 38.0' S 122° 39.6' E	Fl.W. period 3s	43 13	10	White beacon.	
25318 K 1550	Tampo.	4° 37.1' S 122° 42.2' E	Fl.W. period 3s	39 12	10	White framework tower; 33.	
25318.4 K 1549.15	Beromadilao.	4° 33.7' S 122° 24.3' E	Fl.(2)W. period 7s	39 12	12	White beacon.	
25318.6 K 1549.1	Beromasidi.	4° 34.7' S 122° 17.8' E	Fl.(2)W. period 5s	39 12	12	White beacon.	
25318.8	West Pulau Maloang.	4° 38.7' S 122° 14.8' E	Fl.W. period 5s	39 12	12	Beacon.	
25319 K 1549.2	Pulau Magenti.	4° 50.2' S 122° 11.4' E	Fl.(2)G. period 6s	39 12	12		
25319.05 K 1549.25	Pulau Mangatah.	4° 50.7' S 122° 08.9' E	Q.(6)+L.Fl.W. period 15s	39 12	12	S. CARDINAL YB, beacon, topmark.	
25319.1 K 1549.3	Karang Sapamataha.	4° 58.7' S 122° 07.5' E	Fl.(2)W. period 6s	39 12	12		
25319.3 K 1549.35	Sapa Tarapimpi.	5° 03.9' S 122° 08.4' E	Fl.(2)W. period 7s fl. 1s, ec. 1s fl. 1s, ec. 4s	39 12	12	White beacon.	

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INDONESIA SULAWESI (CELEBES)-ADJACENT ISLANDS

25320 K 1551	Raha, W. side of Buton Strait.	4° 51.0' S 122° 45.0' E	Fl.(2)W. period 5s	56 17	12	Beacon.	
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INDONESIA SULAWESI (CELEBES)-ADJACENT ISLANDS							
25324 K 1551.2	-Pier, head.	4° 51.3' S 122° 44.1' E	Fl.Y. period 3s	59 18	5		
25328 K 1551.5	-Lebutan Island.	4° 56.0' S 122° 48.1' E	Fl.(2)W. period 8s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 4.5s	66 20	12	White metal framework structure; 49.	
25329 K 1551.6	Pulau Butong.	5° 06.7' S 122° 43.2' E	Fl.W. period 3s	51 16	12	White beacon.	Radar reflector.
25330 K 1551.8	Tg. Batu Sori.	5° 20.9' S 122° 39.7' E	Fl.W. period 3s	82 25	15	White beacon.	
25331 K 1551.9	P. Makasar.	5° 26.3' S 122° 37.4' E	Fl.R. period 3s	36 11	6	Red beacon.	
25332 K 1552	Baubau, extremity of E. side.	5° 27.3' S 122° 37.0' E	Fl.W. period 4s	39 12	9		
25336 K 1552.4	-Oil Depot.	5° 28.4' S 122° 34.9' E	Q.(4)W. period 8s	33 10	12		
25340 K 1552.6	Tg. Bunabungi Pulau Kadatua.	5° 30.0' S 122° 31.5' E	Fl.(3)W. period 10s	49 15	12	Beacon.	

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INDONESIA (HALMAHERA-SULAWESI (CELEBES)-ADJACENT ISLANDS)

25342 K 1554.4	Tg. Batu Toro.	5° 41.8' S 122° 47.9' E	Fl.W. period 10s fl. 0.1s, ec. 9.9s	164 50	23		
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INDONESIA SULAWESI (CELEBES)-ADJACENT ISLANDS

25344 K 1555	Tanjung Kordoa.	5° 31.0' S 122° 53.0' E	Fl.W. period 4s	66 20	10	White beacon.	
25346 K 1555.8	Tg Kanolanatumbi.	5° 16.5' S 123° 13.2' E	Fl.W. period 10s fl. 0.1s, ec. 9.9s	148 45	23	White concrete structure; 98.	
25348 K 1558	Pulau Wangiwangi.	5° 15.0' S 123° 33.0' E	Fl.(2)W. period 12s	493 150	30	White iron framework; 69.	Visible 012° -259° . Partially obscured by Pulau Kambodi 012° -036° . <i>Reported FW. (T).</i>
25348.5 K 1558.2	-Midden.	5° 21.3' S 123° 32.0' E	Fl.W. period 3s			Beacon.	
25349 K 1558.3	Pulau Tomea, Karang Waha.	5° 43.2' S 123° 53.8' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	39 12	12		
25349.5 K 1558.32	Ndaa.	5° 38.9' S 124° 02.9' E	Iso.W. period 2s	39 12	12	White beacon.	
25350 K 1558.35	Karang Koro Maha.	5° 46.0' S 124° 11.0' E	Q.(6)+L.Fl.W. period 15s	39 12	12		
25350.4 K 1558.34	Pulau Binongko.	6° 02.5' S 124° 03.0' E	Fl.W. period 10s	147 45	24	White beacon.	

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INDONESIA SULAWESI (CELEBES)-ADJACENT ISLANDS							
25351 K 1558.33	Pulau Moromaho.	6° 08.0' S 124° 36.5' E	Fl.(4)W. period 10s	147 45	27	Lighthouse.	
25352 K 1553	-Siumpu, Popalia.	5° 41.1' S 122° 27.8' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	66 20	12	White iron framework structure; 49.	<i>Temporarily extinguished (1988).</i>
25352.5 K 1553.2	Pulau Batuata.	6° 12.0' S 122° 41.3' E	Fl.(2)W. period 5s	472 144	20	White beacon.	
25353 K 1554	Tg Pising.	5° 03.5' S 121° 53.8' E	Fl.(2)W. period 6s	46 14	10	Beacon.	
25353.5 K 1554.2	-Sikeli.	5° 16.7' S 121° 48.2' E	Fl.W. period 3s	39 12	10	Beacon.	
25354 K 1554.1	Pulau Sogori.	5° 23.3' S 121° 43.8' E	Fl.(2)W. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	39 12	12	White beacon.	
25356 K 1548	Kolaka.	4° 03.0' S 121° 34.0' E	Fl.(2)R. period 6s	19 6	3	Red beacon.	Radar reflector.
25360 K 1547.9	-Kolaka.	4° 03.2' S 121° 36.0' E	Fl.Y. period 3s	29 9	6		
25364 K 1548.3	-Bingkuka.	4° 04.0' S 121° 34.0' E	Fl.G. period 5s	20 6	5	Green beacon.	Radar reflector.
25368 K 1548.5	-Padamarang.	4° 03.0' S 121° 23.3' E	Fl.R. period 6s	28 9	8	Red beacon.	Radar reflector.
25370 K 1548.6	-Lambasina Kecil.	4° 04.5' S 121° 19.0' E	Fl.(2)W. period 8s	197 60	15		
25370.5 K 1548.65	Karang Rosamari.	4° 05.5' S 121° 08.5' E	Fl.(2)W. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	39 12	12	White beacon.	
25372 K 1548.7	-Lambasina Besar.	4° 04.0' S 121° 22.0' E	Fl.W. period 5s	40 12	11	White beacon.	Radar reflector.
25373 K 1549	Boeapinang.	4° 46.5' S 121° 34.2' E	Fl.W. period 3s	39 12	10	White beacon.	
25373.5 K 1548.9	-SW.	4° 47.4' S 121° 33.8' E	Fl.(2)G. period 10s	23 7	6	STARBOARD (A) G, beacon, topmark.	
25373.6 K 1548.91	-E.	4° 47.4' S 121° 33.8' E	Fl.(2)R. period 10s	23 7	6	PORT (A) R, beacon, topmark.	
25374 K 1553.5	Telaga Besar.	5° 31.2' S 122° 00.0' E	Fl.(2)W. period 15s	138 42	25		
25376	Pertamina.	0° 56.0' S 122° 49.0' E	Q.(4)W. period 8s	33 10	11		<i>Reported extinguished (Dec. 1984).</i>
25378	Pulau Bakakang.	1° 35.1' S 123° 27.5' E	Fl.W. period 3s	39 12	12	White beacon.	
25379	Pulau Kenau.	1° 46.4' S 123° 31.7' E	Fl.W. period 3s	39 12	12	White beacon.	
25380 K 1569	Buang Buang.	2° 04.3' S 123° 55.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	92 28	15	White metal framework tower; 82.	
25384 K 1569.3	Pulau Seku.	2° 00.3' S 124° 18.1' E	Fl.(2)W. period 15s	197 60	15	White beacon.	
25386 K 1541.6	Tanjung Siwa.	3° 41.5' S 120° 26.3' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s	26 8	10	PORT (A) R, beacon, topmark.	

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INDONESIA SULAWESI (CELEBES)-ADJACENT ISLANDS							
25388 K 1542	Tanjung Jene.	3° 14.1' S 120° 25.5' E	Fl.W. period 5s fl. 1s, ec. 4s	49 15	12	White beacon; 29.	
25390 K 1544	Palopo.	2° 58.9' S 120° 13.1' E	Fl.W. period 3s	46 14	12	White tower.	
25400 K 1545.6	Bulu Pulu, W. end.	2° 48.8' S 120° 57.3' E	Fl.W. period 3s	59 18	10	White beacon.	Radar reflector.
25404 K 1545	-N. side.	2° 40.2' S 121° 01.9' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	33 10	5	White pile; 23.	Radar reflector.
25406 K 1547.5	Batunon.	3° 17.7' S 120° 57.6' E	Fl.W. period 3s	39 12	10	White beacon.	
25408 K 1536	Pulau Pasitanete.	5° 44.5' S 120° 29.5' E	Fl.(4)W. period 20s		213 65	22 White iron framework; 67.	Visible 021° -322°.
25411 K 1532.5	Bulukumba.	5° 32.7' S 120° 12.5' E	Fl.W. period 5s	42 13	11		
25412 K 1532	Bulukumba, Papanambeja Point.	5° 34.0' S 120° 11.4' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	138 42	18	White metal framework tower; 78.	Visible 270° -051°.
25414 K 1528	Tanjung Bulu Bulu.	5° 42.3' S 119° 46.0' E	Fl.W. period 10s	138 42	18		
25416 K 1524	Takarewataya (De Bril).	6° 05.0' S 118° 54.0' E	Fl.W. period 10s	82 25	22	Truncated octagonal pyramid, red and white stripes, 3 balconies; 75.	
			D(- • •)		5		Azimuth coverage 097° - 010°.
	RACON						
25416.5	Banawaja.	6° 49.3' S 119° 12.1' E	Fl.(2)W. period 5s	105 32	17	White beacon.	
25416.6 K 1325.3	Pulau Jailamu.	6° 33.7' S 118° 48.6' E	Fl.W. period 5s	56 17	16	White fiberglass tower; 33.	
25416.7	Pulau Longkoitang.	6° 42.1' S 118° 16.9' E	Fl.W. period 5s	105 32	17	White beacon.	
25417 K 1537	Pulau Pasi.	6° 06.0' S 120° 26.3' E	Fl.G. period 5s	43 13	10	Green beacon.	
25418 K 1538.5	Benteng.	6° 06.7' S 120° 27.1' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s	26 8	10	PORT (A) R, beacon, topmark.	

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INDONESIA SULAWESI (CELEBES)

25420 K 1522	Dewakang Besar.	5° 23.7' S 118° 25.3' E	Fl.W. period 5s	108 33	15	White iron framework tower; 98.	Radiobeacon.
25421 K 1518.5	Pulau Tanakeke.	5° 32.0' S 119° 16.9' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	80 24	23	White concrete tower; 66.	
25422 K 1519	-E.	5° 29.5' S 119° 19.2' E	Fl.W. period 5s	49 15	9		
25423	Pulau Bangkauluang.	5° 30.1' S 118° 38.1' E	Fl.W. period 5s	49 15	12	White beacon.	

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INDONESIA SULAWESI (CELEBES)							
25424 K 1518	Pulau Dayangdayangan.	5° 24.1' S 119° 11.5' E	Fl.W. period 5s fl. 1s, ec. 4s	138 42	19	White iron framework tower; 98.	Obscured 120° -130° .
25424.5	Taka Gosseiya.	5° 22.0' S 119° 00.0' E	Fl.W. period 5s	49 15	12	White beacon.	
25425 K 1509	Takabakang.	4° 57.8' S 118° 33.0' E	Fl.W. period 5s	49 15	12		
UJUNGPANDANG:							
25432 K 1517	-Kudingareng Lompo.	5° 09.1' S 119° 15.5' E	Fl.(4)W. period 27.5s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 19s	135 41	17	White metal framework tower; 132.	
25434 K 1517.2	--S.	5° 09.6' S 119° 15.8' E	Q.(6)+L.Fl.W. period 15s	26 8	10	S. CARDINAL YB, beacon, topmark.	
25436 K 1511	-Pulau Samalona.	5° 07.5' S 119° 20.2' E	Fl.(2)G. period 5s	49 15	9	White beacon.	Radar reflector.
25440 K 1516	-Mariso.	5° 09.1' S 119° 23.8' E	Fl.W. period 5s fl. 1s, ec. 4s	131 40	8	White framework tower; 128.	
25444 K 1513	-Entrance, N. side.	5° 07.1' S 119° 23.7' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s	33 10	8	Red beacon.	On request.
25448 K 1514	--S. side.	5° 07.2' S 119° 23.6' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	39 12	4	Green framework tower on piles.	On request.
25449 K 1512	-Breakwater, W.	5° 07.4' S 119° 23.5' E	Fl.G. period 5s	20 6	6	Green beacon.	
25452 K 1515	-Quay, S. end.	5° 07.4' S 119° 24.4' E	Fl.W. period 3s	105 32	18		
25458 K 1510.5	-Paotere.	5° 06.4' S 119° 25.4' E	Fl.G. period 5s	26 8	10		
25460 K 1510	-Bone Panambungang.	4° 58.0' S 119° 21.0' E	Fl.G. period 4s	49 15	9	Green beacon.	
25461 K 1508.5	Pulau Lanyukang.	4° 58.9' S 119° 04.5' E	Fl.W. period 10s	80 24	23	White beacon; 65.	
25464 K 1509.5	-Batu Bajangang.	4° 52.8' S 119° 22.0' E	Fl.R. period 3s	49 15	9	Red beacon.	<i>Reported destroyed (1993).</i>
25468 K 1508	Pulau Kapoposang.	4° 41.9' S 118° 56.7' E	Fl.W. period 5s	118 36	16	Red iron skeleton structure; 108.	
	RACON		K(- • -) period 30s		5		Azimuth coverage 148° - 047° .
25470 K 1540	Karang Limpogoh Selatan.	4° 56.2' S 120° 45.2' E	Fl.W. period 3s	49 15	12		
25470.5 K 1540.9	Bajowe.	4° 32.8' S 120° 25.1' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s	26 8	10	PORT (A) R, beacon, topmark.	
25471 K 1540.95	-E.	4° 32.2' S 120° 26.3' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	23 7	10	STARBOARD (A) G, beacon, topmark.	
25472 K 1541	Totopela Reef.	4° 31.9' S 120° 27.9' E	Fl.R. period 4s	26 8	8		

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INDONESIA SULAWESI (CELEBES)							
25472.5 <i>K 1541.1</i>	Torea.	4° 30.4' S 120° 27.4' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	26 8	10	STARBOARD (A) G, beacon, topmark.	
25473 <i>K 1541.3</i>	Tanjung Lameriki.	4° 10.3' S 120° 22.5' E	Fl.W. period 10s	112 34	24	White beacon; 98.	
25474 <i>K 1506.5</i>	Teluk Sido entrance, N.	4° 13.7' S 119° 36.0' E	Fl.R. period 4s	26 8	8	Red beacon.	
25474.5 <i>K 1506.6</i>	-S.	4° 13.9' S 119° 35.8' E	Fl.G. period 3s	26 8	8	Green beacon.	
25476 <i>K 1506</i>	Tg. Lero.	4° 02.7' S 119° 35.5' E	Fl.R. period 5s fl. 1s, ec. 4s	46 14	11	White metal tower, red bands; 26.	
	RACON		M(- -)				
25480 <i>K 1507</i>	-Parepare.	4° 01.0' S 119° 37.2' E	F.R.	33 10	6		
25482 <i>K 1507.5</i>	Pankamandra.	4° 16.7' S 119° 17.2' E	Fl.W. period 3s	49 15	12		
25485 <i>K 1500</i>	Polewali.	3° 26.4' S 119° 20.5' E	Fl.W. period 3s	46 14	12		
25488 <i>K 1498</i>	Majene, pier, head.	3° 33.1' S 118° 57.8' E	F.R.	22 7	4	Iron beacon.	Visible 335° -020° .
25492 <i>K 1496</i>	Tanjung Rangasa.	3° 34.0' S 118° 56.0' E	Fl.W. period 5s	344 105	21	White iron framework; 69.	Visible 258° -147° . Radiobeacon.
25494 <i>K 1494</i>	Tg. Binanga.	3° 20.3' S 118° 50.7' E	Fl.W. period 6s	79 24	18	White beacon.	
25496 <i>K 1493</i>	Tg. Ongkone.	3° 05.6' S 118° 46.6' E	Fl.W. period 4s	46 14	12	White beacon.	
25500 <i>K 1490</i>	Tg. Rangas.	2° 37.5' S 118° 48.7' E	Fl.W. period 6s	324 99	23	White metal framework tower; 69.	Visible 030° -240° and 261° - 272° .
	RACON		Y(- • - -)				
25502 <i>K 1491</i>	Tg. Kai.	2° 51.7' S 118° 46.1' E	Fl.W. period 5s	52 16	16	White fiberglass beacon; 33.	Radar reflector.
25503 <i>K 1490.1</i>	Simboro Mamuju.	2° 40.5' S 118° 52.2' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	43 13	12	White beacon.	
25503.5 <i>K 1490.15</i>	-S.	2° 40.6' S 118° 52.2' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	49 15	12	White beacon.	
25503.6 <i>K 1489.2</i>	Belangbelang.	2° 28.6' S 119° 06.6' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	23 7	10	STARBOARD (A) G, beacon, topmark.	
25503.65 <i>K 1489.1</i>	-NE.	2° 28.4' S 119° 06.8' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s	23 7	10	PORT (A) R, beacon, topmark.	
25503.7 <i>K 1489</i>	-E.	2° 28.4' S 119° 07.0' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s	23 7	10	PORT (A) R, beacon, topmark.	
25503.8 <i>K 1485</i>	Tanjung Lalereh.	1° 59.9' S 119° 12.7' E	Fl.W. period 5s	138 42	12	White beacon.	
25504 <i>K 1484</i>	Tanjung Pasaukajoe.	1° 10.3' S 119° 20.5' E	Fl.(3)W. period 24s	184 56	20	White metal framework tower; 132.	

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INDONESIA SULAWESI (CELEBES)							
25508 <i>K 1476</i>	Teluk Palu.	0° 38.0' S 119° 44.0' E	L.FI.(4)W. period 25s fl. 2s, ec. 3s fl. 2s, ec. 3s fl. 2s, ec. 3s fl. 2s, ec. 8s	269 82	23	White iron framework structure; 69.	The beacon on the pierhead and Coast reef will show F.R. only when vessel is expected.
25510 <i>K 1478</i>	Donggala, pier, head.	0° 39.7' S 119° 44.8' E	Fl.W. period 3s	43 13	12	Beacon.	On request.
25512 <i>K 1483</i>	-Panteluan.	0° 42.1' S 119° 50.9' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	59 18	12	White beacon; 49.	
25516 <i>K 1482.5</i>	Loli Qgeh.	0° 47.0' S 119° 48.0' E	Q.(4)W. period 8s	33 10			
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INDONESIA (LESSER SUNDA ISLANDS)							
BALI:							
25520 <i>K 1291.4</i>	-Bukit Badung.	8° 49.2' S 115° 08.6' E	Fl.(3)W. period 20s fl. 0.2s, ec. 3.7s fl. 0.2s, ec. 3.7s fl. 0.2s, ec. 12s	722 220	25	White metal tower; 13.	4 F.R. about 2 miles E.
25522 <i>K 1291.6</i>	-Tanjung Mebulu.	8° 49.6' S 115° 05.1' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	263 80	15	White beacon.	
25524 <i>K 1291</i>	-Benoa Harbor.	8° 44.8' S 115° 12.7' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	101 31	16	White metal framework structure; 82.	
25526 <i>K 1291.2</i>	--Range, front.	8° 45.5' S 115° 13.6' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	23 7	8	Beacon, white triangular daymark.	
25526.1 <i>K 1291.21</i>	---Rear, 590 meters 252° from front.	8° 45.6' S 115° 13.3' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	39 12	9	Beacon, white triangular daymark, point down.	
25528 <i>K 1290</i>	-Tanjung Serangan.	8° 43.2' S 115° 15.4' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	39 12	12	White metal framework structure; 33.	
25532 <i>K 1287</i>	-Tanjung Sari.	8° 31.8' S 115° 30.9' E	Fl.W. period 5s	125 38	15	White beacon.	
25536 <i>K 1289</i>	--Teluk Padang Range, front.	8° 31.7' S 115° 30.3' E	Iso.W. period 2s	46 14	12	Beacon, triangular daymark, point up.	Fl.G. 3s and Fl.R. 4s mark entrance.
25536.1 <i>K 1289.1</i>	---Rear, 430 meters 329° 30' from front.	8° 31.5' S 115° 30.2' E	Iso.W. period 8s	66 20	12	Beacon, triangular topmark, point down.	
25538 <i>K 1286</i>	-Pulau Gilitepekong.	8° 31.6' S 115° 35.1' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	213 65	18	Beacon.	
25540 <i>K 1285</i>	-Gili Selang.	8° 23.8' S 115° 42.3' E	Fl.(3)W. period 20s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 13s	230 70	19	White iron framework structure; 66.	
	-RACON		K(- • -)				

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INDONESIA (LESSER SUNDA ISLANDS)							
25541 K 1284.2	-Tg. Bungkulan.	8° 03.8' S 115° 10.9' E	Fl.W. period 5s	105 32	12	White beacon.	
25542 K 1284	-Buleleng, E. of river entrance.	8° 05.5' S 115° 05.5' E	Fl.W. period 3s fl. 1s, ec. 2s	82 25	13	White iron framework, black stripes; 46.	Visible 071° -227° .
25543 K 1283.5	-Beacon 1M.	8° 11.3' S 114° 50.1' E	Fl.(2)W. period 6s	19 6	6	ISOLATED DANGER BRB, beacon, topmark.	
25544 K 1283	-Celukanbawang.	8° 11.0' S 114° 50.0' E	Fl.R. period 6s fl. 0.5s, ec. 5.5s	36 11	4	Beacon.	
25545 K 1283.7	--Harbor.	8° 11.7' S 114° 49.9' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	105 32	12	White beacon.	
25546 K 1292	Nusa Lembongan, Tanjung Taal.	8° 40.0' S 115° 27.0' E	Fl.(3)W. period 15s fl. 1s, ec. 3s fl. 1s, ec. 3s fl. 1s, ec. 6s	88 27	16	White iron framework structure; 49.	Visible 053° -256° .
25548 K 1294	Nusa Penida.	8° 49.1' S 115° 35.6' E	Fl.(2)W. period 15s fl. 1s, ec. 4s fl. 1s, ec. 9s	682 208	25	White metal framework tower; 66.	
LOMBOK:							
25551 K 1294.5	-Tg Agaragar.	8° 12.7' S 116° 22.1' E	Fl.W. period 5.5s	115 35	18	White beacon.	
25552 K 1296	-Ampenan.	8° 34.3' S 116° 04.5' E	Fl.(3)W. period 45s fl. 1s, ec. 9s fl. 1s, ec. 9s fl. 1s, ec. 24s	105 32	15	White iron framework tower; 98.	
25554 K 1295	Trewangan.	8° 21.0' S 116° 01.5' E	Fl.(2)W. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	141 43	19		
RACON							
T(-)							
25555 K 1294.9	Pulau Meno.	8° 21.0' S 116° 03.2' E	Fl.Y. period 3s	36 11	6	SPECIAL Y, beacon, topmark.	
25555.5 K 1294.8	Pulau Aer.	8° 22.2' S 116° 05.0' E	Fl.Y. period 4s	36 11	6	SPECIAL Y, beacon, topmark.	
25560 K 1298	Lembar Harbor.	8° 43.9' S 116° 03.6' E	Fl.W. period 5s	210 64	11	White metal framework tower; 39.	
25564 K 1298.4	-Kramat.	8° 44.4' S 116° 03.7' E	Fl.R. period 3s	53 16	4	Red beacon.	
25565 K 1298.3	-Lembar.	8° 44.2' S 116° 03.9' E	Fl.G. period 3s	43 13	12	STARBOARD (A) G, beacon; 26.	Radar reflector.
25565.5 K 1298.35	--SW.	8° 44.2' S 116° 03.9' E	Fl.R. period 4s	43 13	12	PORT (A) R, beacon.	Radar reflector.
25568 K 1297	-Labuan Tring Bay.	8° 43.6' S 116° 02.5' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	171 52	10	Green beacon; 39.	
25569 K 1299.5	Tanjung Mangkun.	9° 00.3' S 116° 43.8' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	95 29	12	White beacon.	

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25570 <i>K 1299</i>	Tanjung Pandanan, S.	8° 45.1' S 115° 49.2' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	98 30	12	Beacon.	
25571 <i>K 1296.7</i>	Pulau Gilipoh.	8° 42.5' S 115° 58.5' E	Q.(2)W. period 5s	52 16	12	White beacon.	
25571.5 <i>K 1299.3</i>	Tanjung Bungkulan.	8° 57.2' S 116° 23.6' E	Fl.W. period 6s	312 95	12	Beacon.	
25572 <i>K 1300</i>	-Tanjung Ringgit.	8° 52.2' S 116° 35.1' E	Fl.(2)W. period 10s	361 110	27	White metal framework tower; 131.	
25572.7 <i>K 1299.56</i>	Tg. Maloh.	8° 53.7' S 116° 43.7' E	Fl.W. period 7s	413 126	12	White beacon.	
25572.8 <i>K 1299.57</i>	Benete Range, front.	8° 54.0' S 116° 44.7' E	Q.W.	43 13	6	Beacon, white cone topmark, point up.	
25572.81 <i>K 1299.571</i>	-Rear, 127° from front.	8° 54.0' S 116° 44.9' E	Iso.W. period 4s	52 16	6	Beacon, white cone topmark, point down.	
25573 <i>K 1300.2</i>	Gili Lebur.	8° 29.1' S 116° 41.2' E	Q.W.	33 10	9	Beacon, double cone topmark, points up.	
25573.2 <i>K 1300.3</i>	-Reef, W. end.	8° 29.0' S 116° 40.6' E	Fl.R. period 2s	20 6	7	Red beacon.	
25573.3 <i>K 1300.4</i>	Karang.	8° 29.1' S 116° 40.6' E	Fl.R. period 4s	26 8	5	Red beacon.	
25573.4 <i>K 1300.35</i>	Ujung Karang Labuhan Lombok.	8° 28.9' S 116° 40.4' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	16 5	5	Green beacon.	
25573.5 <i>K 1300.1</i>	Teluk Lombok.	8° 29.1' S 116° 40.1' E	Fl.W. period 3s	46 14	10	White beacon.	
25574 <i>K 1305</i>	Pulau Ular.	8° 30.2' S 116° 49.2' E	Q.(2)W. period 5s	161 49	10	Black beacon, red bands.	
25574.4 <i>K 1306</i>	Tanjung Tano.	8° 31.2' S 116° 49.8' E	Fl.G. period 3s	46 14	9	Green beacon.	
25576 <i>K 1301</i>	Gili Petagan, SE. side of the coast reef.	8° 26.2' S 116° 45.4' E	Fl.W. period 3s	49 15	12	White iron beacon; 49.	Obscured by Gili Petagan 104° - 173°, and by the islands to the NW. of Sumbawa.
25578 <i>K 1322</i>	Pulau Kapoposangbali.	7° 30.3' S 117° 10.1' E	Fl.W. period 10s	112 34	24	White beacon; 98.	
25580 <i>K 1303</i>	Gosong Sakunci.	7° 51.5' S 117° 12.7' E	Fl.W. period 12s	56 17	15	Beacon.	
25584 <i>K 1304</i>	Pulau Medang.	8° 08.2' S 117° 23.5' E	Fl.(2)W. period 6s	157 48	17	White metal framework tower; 95.	
25584.5 <i>K 1323</i>	Karang Satunggul.	7° 32.7' S 117° 59.8' E	Q.W.	49 15	12	White beacon.	
25585 <i>K 1324</i>	Pelokang.	7° 10.5' S 118° 24.5' E	Q.W.	42 13	11	White beacon.	
25586 <i>K 1324.5</i>	Sarege.	7° 04.5' S 118° 39.5' E	Fl.(3)W. period 15s	42 13	11	White beacon.	
25588 <i>K 1309</i>	-Tanjung Lampasapi.	8° 23.0' S 118° 42.0' E	Fl.R. period 6s fl. 0.6s, ec. 5.4s	49 15	4		
25592	Amoe.	8° 24.0' S 118° 42.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	49 15			

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INDONESIA (LESSER SUNDA ISLANDS)							
25593 <i>K 1310.6</i>	N. Amoe.	8° 23.9' S 118° 41.7' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	49 15	11	Green beacon.	
25594 <i>K 1310.4</i>	S. Amoe.	8° 24.5' S 118° 41.7' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s	39 12	10	Red beacon.	
25596 <i>K 1310.2</i>	-Soembai.	8° 24.8' S 118° 41.4' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	49 15	12	Green beacon.	Radar reflector.
25602 <i>K 1308.4</i>	Tg. Pakijongan.	8° 05.2' S 117° 55.6' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	115 35	12	White beacon.	
25602.5 <i>K 1304.4</i>	Tg. Kolo.	8° 20.0' S 117° 28.6' E	Fl.Y. period 4s fl. 0.5s, ec. 3.5s	36 11	6	SPECIAL Y, beacon, topmark.	
25602.7 <i>K 1304.6</i>	Tg. Ai Lancong.	8° 19.5' S 117° 34.4' E	Fl.Y. period 3s fl. 0.5s, ec. 2.5s	46 14	6	SPECIAL Y, beacon, topmark.	
25603 <i>K 1308.1</i>	Badas, entrance.	8° 27.8' S 117° 22.7' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	43 13	12	STARBOARD (A) G, beacon, topmark.	
25604 <i>K 1307</i>	Sumbawa Bay, Badas.	8° 27.9' S 117° 22.6' E	Fl.(2)W. period 5s	33 10	12		
25605 <i>K 1307.5</i>	Badas.	8° 28.0' S 117° 22.4' E	Fl.W. period 2s fl. 0.5s, ec. 1.5s	39 12	10	White beacon.	
25606 <i>K 1308.5</i>	Batu Besar.	8° 14.6' S 118° 29.7' E	Fl.W. period 10s	82 25	22	White beacon.	
25608 <i>K 1310</i>	-Bima.	8° 27.0' S 118° 43.0' E	Fl.W. period 1.5s fl. 0.5s, ec. 1s	46 14	6		
25610 <i>K 1309.5</i>	Lawata.	8° 28.6' S 118° 42.4' E	Fl.(4)W. period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	33 10	11	White beacon.	
25613 <i>K 1310.7</i>	Sangeang Island.	8° 07.8' S 119° 04.9' E	Fl.W. period 10s fl. 0.9s, ec. 9.1s	69 21	22	White beacon.	
25614 <i>K 1310.8</i>	Tg. Naru.	8° 18.8' S 119° 00.5' E	Fl.(2)W. period 15s	144 44	18		
25616 <i>K 1311</i>	Toronaganuri.	8° 33.3' S 119° 01.7' E	Fl.G. period 3s	197 60	12		Visible 196° -274° .
25617 <i>K 1311.2</i>	Nisa Sanai.	8° 33.3' S 119° 02.4' E	Fl.R. period 4s	46 14	10	Red beacon.	
25618 <i>K 1311.5</i>	Bajo.	8° 34.3' S 119° 01.2' E	Fl.W. period 4s	39 12	10	White beacon.	
25620 <i>K 1312</i>	-Pulau Kelapa Range, front.	8° 39.5' S 119° 14.0' E	Iso.W. period 2s	446 136	30	White framework tower; 13.	Visible 167° -177° .
25624 <i>K 1312.1</i>	--Rear, 242 meters 172° from front.	8° 40.1' S 119° 13.7' E	Fl.W. period 11s	489 149	18	White framework tower; 65.	
25626 <i>K 1315</i>	Pulau Komodo.	8° 43.8' S 119° 23.0' E	Q.(2)W. period 5s	230 70	22	White beacon.	
25628 <i>K 1314</i>	-Toro Jampang.	8° 44.8' S 118° 59.2' E	Fl.(2)W. period 15s	312 95	22		

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INDONESIA (LESSER SUNDA ISLANDS)							
FLORES:							
25628.3 K 1315.5	-Pulau Gillilawa Laut.	8° 26.6' S 119° 34.8' E	Fl.W. period 3s	98 30	10	White beacon.	
25628.5 K 1329	-Sabolan Kecil.	8° 23.5' S 119° 47.9' E	Fl.W. period 1.5s	92 28	11	White beacon.	
25629 K 1329.5	-Toro Besi.	8° 14.5' S 120° 25.6' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	98 30	15	White metal framework structure; 98.	
25629.2 K 1330	-Reo.	8° 17.0' S 120° 27.0' E	Fl.W. period 3s	39 12	10	White framework tower; 11.	
25629.4 K 1330.2	--Oil depot.	8° 16.7' S 120° 27.1' E	Fl.W. period 3s	30 9	10		
25629.7 K 1330.4	-Mborong.	8° 49.2' S 120° 36.8' E	Fl.W. period 1.5s	41 12	11	White beacon.	
25630 K 1331.5	-Marapoko.	8° 30.7' S 121° 19.3' E	Fl.(3)W.	39 12	12		
25631 K 1332	-Tg. Karterbileh.	8° 28.4' S 121° 37.9' E	Fl.W. period 3s	417 127	27	White beacon.	
25632 K 1337	-Ende.	8° 50.7' S 121° 38.6' E	Fl.W. period 3s	141 43	14		
25636 K 1333	--Fuel depot.	8° 51.0' S 121° 39.5' E	Fl.(3)W. period 8s	39 12	12		
25638 K 1338	-Appi.	8° 50.8' S 121° 40.1' E	Fl.(4)W. period 8s	36 11	8		
25639 K 1334.5	-Gosong Unjuran.	8° 28.7' S 122° 08.7' E	Fl.G. period 5s	49 15	12	STARBOARD (A) G, beacon.	Radar reflector.
25639.3 K 1335	Teluk Maumere.	8° 37.5' S 122° 13.3' E	Fl.(3)W. period 20s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 15.5s	361 110	25	White metal framework structure; 134.	
25639.5 K 1334	-Gosong Boni.	8° 23.4' S 122° 14.1' E	Fl.R. period 6s	48 15	12	PORT (A) R, beacon.	Radar reflector.
25640 K 1340	-Larantuka.	8° 20.6' S 122° 59.5' E	Fl.W. period 4s	56 17	11	White beacon.	
25642 K 1339	Nusa Lobetobi.	8° 36.2' S 122° 50.8' E	Q.W.	148 45	9		
25643 K 1339.5	Tg. Lawawolo.	8° 36.5' S 122° 53.5' E	Q.W.	75 23	15	White beacon.	
25644 K 1340.5	--NE.	8° 20.5' S 122° 59.5' E	Fl.W. period 3s	33 10			
25648 K 1341	Tanjuns Sarbete.	8° 19.1' S 123° 01.0' E	Fl.W. period 5s	56 17	12		
25650 K 1341.6	Tanjung Mas.	8° 09.0' S 123° 01.2' E	Fl.W. period 5s	131 40	12		
25651 K 1343	Kawula.	8° 13.4' S 123° 41.8' E	Fl.W. period 4s	170 52	18	White beacon.	
25651.5 K 1343.5	Pulau Lapan.	8° 13.2' S 124° 01.8' E	Fl.(2)W. period 15s	111 34	10	White beacon.	
25651.6 K 1343.7	Blang Merang Bay.	8° 21.7' S 124° 05.7' E	Fl.W. period 2s	46 14	12	White beacon.	

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INDONESIA (LESSER SUNDA ISLANDS)							
25651.7 <i>K 1342.5</i>	Tg. Tuak.	8° 18.4' S 123° 20.9' E	Fl.W. period 4s fl. 0.3s, ec. 3.7s	42 13	12	Beacon.	
25652 <i>K 1342</i>	Pulau Adonara, outer of wharf near Waiwerang village.	8° 23.6' S 123° 10.0' E	Fl.(3)W. period 15s	59 18	8	White metal structure; 16.	
25653 <i>K 1318</i>	Tanjung Sasar.	9° 16.8' S 119° 56.5' E	Fl.(3)W. period 22s	279 85	24		
25653.1 <i>K 1318.7</i>	Waikelo.	9° 23.6' S 119° 12.9' E	Fl.W. period 2s	46 14	12	White beacon.	
25653.2 <i>K 1321.5</i>	Tg. Karaso.	9° 33.3' S 118° 56.2' E	L.Fl.W. period 8s	49 15	12	White beacon.	
25653.5 <i>K 1317</i>	-Tg Umdu.	10° 05.4' S 120° 50.8' E	Fl.(3)W. period 20s	138 42	17		
25656 <i>K 1321</i>	Pulau Mangudu.	10° 19.8' S 120° 07.0' E	L.Fl.W. period 5s	49 15	12	White beacon.	
25658 <i>K 1319</i>	Waingapu Reef.	9° 37.2' S 120° 15.5' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	23 7	6	Red beacon, red square daymark.	
25658.1 <i>K 1319.2</i>	Sumba, Waingapu.	9° 38.0' S 120° 15.4' E	Fl.G. period 5s	23 7	6		
25658.2 <i>K 1319.4</i>	--Approach E. side.	9° 38.1' S 120° 15.6' E	Fl.R. period 6s	23 7	6		
25660 <i>K 1320.2</i>	-Maingapoe.	9° 38.3' S 120° 15.5' E	Fl.W. period 7s	41 12	10	White metal framework tower; 30.	
25661.3 <i>K 1326</i>	Karang Nambolaki.	6° 41.7' S 120° 16.9' E	Fl.W. period 10s	39 12	11	White beacon.	
25662 <i>K 1327</i>	Pulau Kayuadi.	6° 46.8' S 120° 47.6' E	Fl.(2)W. period 30s	43 13	11	White beacon.	
25662.1 <i>K 1327.1</i>	Pulau Latondu Kecil.	6° 31.5' S 120° 57.2' E	Fl.Y. period 4s fl. 0.5s, ec. 3.5s	36 11	6	SPECIAL Y, beacon, topmark.	
25662.2 <i>K 1327.2</i>	Palau Belangbelang.	6° 24.3' S 121° 06.0' E	Fl.W. period 5s	56 17	16	White fiberglass tower; 33.	Radar reflector.
25662.5 <i>K 1327.5</i>	Ujung Perumang.	7° 08.1' S 120° 46.0' E	Fl.W. period 5s	36 11	12	White beacon.	
25663 <i>K 1328</i>	Bone Rate Island.	7° 23.2' S 121° 05.1' E	Fl.(3)W. period 10s	210 64	20		
25664 <i>K 1327.7</i>	Pulau Raja.	7° 05.3' S 121° 07.3' E	Fl.W. period 2s	39 12	12		
25664.5 <i>K 1327.3</i>	Pulau Ampalasa.	6° 54.8' S 121° 17.0' E	Fl.Y. period 3s fl. 0.5s, ec. 2.5s	36 11	6	SPECIAL Y, beacon, topmark.	
25665 <i>K 1327.8</i>	Karang Sangi Sangiang.	7° 07.0' S 121° 27.2' E	L.Fl.W. period 11s	39 12	11		
25666 <i>K 1328.5</i>	Pulau Kakabia.	6° 54.5' S 122° 12.8' E	Fl.W. period 2s	36 11	12	White beacon.	
25668 <i>K 1328.7</i>	Pulau Kaunadi.	7° 25.7' S 122° 05.6' E	Fl.W. period 2s	39 12	11		
PULAU SAWU:							
25672 <i>K 1350</i>	-Kali Menia.	10° 25.8' S 121° 52.0' E	Fl.(3)W. period 10s	108 33	20	White stone pyramid; 26.	Visible 052° -243°, obscured in places 052° -060°.

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INDONESIA (LESSER SUNDA ISLANDS)							
25676 K 1352	-Seba.	10° 29.0' S 121° 50.4' E	Fl.W. period 6s	141 43	19		
25676.2 K 1352.5	-Tanjung Liegeta.	10° 32.5' S 121° 58.8' E	Fl.W. period 7s fl. 0.5s, ec. 6.5s	377 115	26	White metal framework structure; 131.	
25677 K 1353	Pulau Rajiua, NW coast.	10° 36.0' S 121° 37.0' E	Fl.W. period 1.5s	46 14	12	White beacon.	
25678 K 1354	Ria Jua.	10° 37.8' S 121° 31.4' E	Fl.(2)W. period 16s fl. 0.5s, ec. 5s fl. 0.5s, ec. 10s	220 67	19	White beacon.	
25680 K 1356	Pulau Roti.	10° 43.7' S 123° 02.8' E	Fl.(2)W. period 10s fl. 1s, ec. 3s fl. 1s, ec. 5s	52 16	21	White iron structure; 45.	Visible 090°-211°. A F.W. light is shown at the head of the pier when ships are expected.
25681 K 1358	-Tanjung Pukuatu.	10° 25.9' S 123° 22.8' E	Fl.W. period 4.5s	43 13	12	White beacon.	
25682 K 1365.5	Tanjung Oisina.	10° 21.6' S 123° 27.6' E	Fl.W. period 4s	66 20	12	Beacon.	
25684 K 1360	Tanjung Kurong.	10° 07.8' S 123° 26.7' E	Oc.(2)W. period 30s	417 127	27	White iron framework structure; 52.	Visible 046°-293°.
	RACON		B(- • • •)				
25686 K 1360.5	-Pulau Kera.	10° 05.4' S 123° 33.2' E	Fl.W. period 3s	39 12	11		
	TIMOR:						
25688 K 1362	-Kupang, Fort Concordia.	10° 09.8' S 123° 34.3' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	95 29	15	White iron framework tower; 43.	Obscured in bay by Kera Island.
25692	--Pier, head.	10° 10.0' S 123° 34.0' E	F.G.		8	Wooden post.	Shown May to October. Occasional.
25696 K 1364	-Toddeh Point.	10° 10.0' S 123° 35.0' E	F.R.	23 7	8	White stone pyramid; 10.	
25700 K 1365	-Tenau.	10° 11.5' S 123° 31.8' E	Fl.W. period 3s fl. 1s, ec. 2s	144 44	15	Fiberglass tower; 33.	
25702 K 1365.7	-Oekusi.	9° 11.2' S 124° 23.6' E	Fl.W. period 4s	102 31	16		
25703 K 1365.8	-Batu Putih.	9° 03.2' S 124° 42.5' E	Fl.W. period 3.5s fl. 1s, ec. 2.5s	66 20	12	White metal lattice tower; 52.	
25704 K 1366	-Atapupu.	8° 59.7' S 124° 51.5' E	Fl.W. period 3s	52 16	10	White beacon.	
25705 K 1366.2	--Entrance, NW.	8° 59.5' S 124° 51.2' E	Fl.G. period 5s	49 15	12	STARBOARD (A) G, beacon.	
25705.5 K 1366.4	---SE.	8° 59.6' S 124° 51.3' E	Fl.R. period 6s	49 15	12	PORT (A) R, beacon.	
25708 K 1368	-Dili Harbor.	8° 32.9' S 125° 34.1' E	Fl.W. period 6s	62 19	12	Metal framework tower on white stone base, blue bands; 56.	
25708.5 K 1369	-Harbor.	8° 33.2' S 125° 34.7' E	Dir.Fl.(2)W.R.G. period 10s		6	Metal framework tower, double cone white daymark, points together.	G. shore-129°, W.-140°, R.- 153.5°.

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INDONESIA (LESSER SUNDA ISLANDS)							
25709 <i>K 1367</i>	-Beacon.	8° 32.8' S 125° 33.9' E	Fl.R. period 4s	39 12	12	Red beacon.	
25709.5 <i>K 1368.3</i>	--W.	8° 32.8' S 125° 33.8' E	Fl.G. period 5s	39 12	10	Green beacon.	
25709.7 <i>K 1369.5</i>	-Oil Depot.	8° 32.6' S 125° 32.8' E	Fl.(4)W. period 8s	33 10			
25709.8 <i>K 1369.6</i>	--NW.	8° 32.5' S 125° 32.6' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	52 16	10	White beacon.	
25710 <i>K 1347</i>	Laisumbu.	8° 19.3' S 125° 08.0' E	Fl.(2)W. period 28s	197 60	20		
25711 <i>K 1347.5</i>	Tg. Babi.	8° 08.5' S 124° 57.6' E	Fl.W. period 5s	85 26	15	White beacon.	
25711.5 <i>K 1348</i>	Pulau Sika.	8° 07.2' S 124° 36.8' E	Fl.W. period 4s	42 13	12	White beacon.	
PULAU ALOR:							
25711.7 <i>K 1345</i>	-Tg. Jalono.	8° 17.7' S 124° 24.5' E	Fl.W. period 7s	115 35	16		
25712 <i>K 1344</i>	-Kalabahi, landing pier.	8° 13.0' S 124° 31.0' E	F.R.	41 12	2	White post.	
25712.5 <i>K 1344.5</i>	--SW.	8° 13.8' S 124° 29.3' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	52 16	10	White beacon.	
25714 <i>K 1346</i>	-Tanjung Margeta.	8° 27.5' S 124° 24.9' E	Fl.W. period 7.5s	180 55	15	White structure.	
25716 <i>K 1372</i>	Pulau Liran.	8° 03.0' S 125° 44.0' E	Fl.(4)W. period 40s	269 82	23		
25716.5 <i>K 1372.4</i>	Gunung Api.	6° 38.2' S 126° 39.5' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	49 15	12	White beacon.	
25716.6 <i>K 1372.5</i>	Tanjung Tutunhatoloi.	7° 39.6' S 126° 48.8' E	Fl.W. period 7s fl. 0.5s, ec. 6.5s	295 90	22	White metal framework structure; 98.	
25717 <i>K 1371</i>	Kun Range, front.	8° 21.8' S 127° 03.8' E	Iso.W. period 2s	36 11	10		
25717.1 <i>K 1371.1</i>	-Rear, 431 meters 175° 56' from front.	8° 21.8' S 127° 03.8' E	Fl.(3)W. period 9s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 5.5s	115 35	16		
25717.5 <i>K 1371.5</i>	Pulau Yako.	8° 25.5' S 127° 20.3' E	Fl.W. period 3s	154 47	14	White lighthouse.	
25718 <i>K 1373</i>	Kisar, Wonroli.	8° 04.4' S 127° 08.6' E	Fl.W. period 3s	39 12	5	White metal framework structure; 33.	
25718.5 <i>K 1373.5</i>	Pulau Nyata.	7° 31.4' S 127° 16.6' E	Fl.(3)W. period 15s	115 35	15	White beacon.	
25719 <i>K 1374</i>	Tg. Tutpateh.	8° 13.1' S 127° 36.1' E	Fl.(3)W. period 10s	131 40	18	White metal framework structure.	
RACON			M(— —)				

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INDONESIA (LESSER SUNDA ISLANDS)							
25720 K 1376	Meatiy Miarang.	8° 20.0' S 128° 29.0' E	Fl.(3)W. period 29s fl. 1s, ec. 5.5s fl. 1s, ec. 5.5s fl. 1s, ec. 15s	82 25	27	White iron framework structure; 75.	
	RACON		T(-)				
25721 K 1376.5	-Tanjung Arousu.	8° 20.4' S 130° 45.4' E	Fl.W. period 10s	112 34	18	White concrete beacon tower; 98.	
25722 K 1378	Selaru, Pulau Batarkusu.	8° 20.3' S 130° 49.0' E	Fl.W. period 4s	46 14	13	White iron framework structure; 33.	
25724 K 1379	Asoetoeboen.	8° 03.4' S 131° 16.3' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	56 17	12	White iron framework structure; 49.	
25728 K 1380.3	Depot Pertamina.	8° 00.4' S 131° 17.1' E	Q.(4)W. period 8s	36 11	10		
25732 K 1380	Saumiaki.	7° 59.0' S 131° 17.8' E	Fl.(2)W. period 15s	30 9	16	White framework tower; 20.	
25734 K 1380.2	-SW.	7° 59.3' S 131° 17.3' E	Fl.G. period 5s	46 14	12	Green beacon.	
25736 K 1382	Ritabel, W. end of Larat.	7° 09.2' S 131° 43.2' E	Fl.W. period 3s	46 14	12		Shown only when vessels are expected.
25738 K 1382.8	Pulau Latur.	7° 08.0' S 131° 42.5' E	Fl.G. period 6s	46 14	12	Green beacon.	
25740 K 1383	Watidal.	7° 07.4' S 131° 43.3' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s	33 10	4	Red iron framework structure; 33.	<i>Temporarily extinguished (1988).</i>
25741 K 1384	Tg Warlangir.	6° 59.3' S 132° 00.4' E	Fl.W. period 6s fl. 1s, ec. 5s	243 74	22	White metal framework structure; 131.	
25741.2 K 1384.5	Kalbur Island.	6° 39.3' S 131° 35.4' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	197 60	22	White metal framework structure; 131.	
25742 K 1592	Tg. Dehekalano.	1° 49.3' S 126° 29.2' E	Fl.(3)W. period 20s	213 65	20		
	RACON		M(- -)				
25744 K 1596	Leksula.	3° 46.8' S 126° 30.9' E	Fl.W. period 3s	26 8	12	White framework tower; 13.	Shown only when vessels are expected.
25746 K 1597	Pulau Fogi.	3° 17.3' S 125° 59.8' E	Fl.(2)W. period 15s	502 153	40		
	BURU:						
25748 K 1594	-Namlea, Teluk Kaveli.	3° 16.5' S 127° 05.7' E	F.R.	36 11	4	Iron post; 16.	Shown only when vessels are expected.
25750 K 1599	-Tanjung Kerbau.	3° 16.4' S 127° 07.2' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	46 14	10		
25751 K 1599.5	Tanjung Bartutui.	3° 53.8' S 127° 13.2' E	Fl.(3)W. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	381 116	25	White metal framework structure on white building; 131.	
25752 K 1600	Pulau Sunggi.	3° 18.0' S 127° 28.0' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	308 94	23	White iron framework; 69.	Visible 310° -220°. Irregular during strong winds. <i>Reported extinguished (Oct. 1984).</i>

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INDONESIA (LESSER SUNDA ISLANDS)							
25754 K 1600.5	Pulau Niene.	2° 54.7' S 127° 54.2' E	Fl.(2)W. period 15s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 11.5s	197 60	30		
25754.5 K 1601.15	Tanjung Waka.	2° 28.0' S 126° 02.9' E	Fl.(3)W. period 15s	164 50	20	White structure.	
25755 K 1601.1	Tanjung Fatmok.	2° 26.5' S 126° 04.1' E	Fl.(3)W. period 9s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 2s	39 12	13	White beacon.	
25756 K 1601	Sanana.	2° 03.0' S 125° 59.0' E	Fl.R. period 5s	59 18	8	Red beacon.	
25756.5 K 1601.3	-In harbor.	2° 03.2' S 125° 58.8' E	Fl.G. period 3s	46 14	12	Green beacon.	
25760 K 1601.5	Sakita.	1° 58.5' S 125° 57.1' E	Fl.(4)W. period 8s	33 10	10		
25764 K 1603	Pulau Lawin.	1° 31.0' S 128° 45.0' E	Fl.(2)W. period 6s	112 34	15	White beacon.	
25766 K 1591	Pulau Obi, Tanjung Wok.	1° 27.8' S 127° 53.8' E	L.Fl.W. period 12s fl. 5s, ec. 7s	56 17	17	White beacon; 56.	
25769 K 1587.5	Babang.	0° 37.6' S 127° 35.8' E	Fl.W. period 4s	46 14	10	White beacon.	
25770 K 1588	Pokal.	0° 26.4' S 127° 43.0' E	Fl.(2)W. period 15s	360 110	25	White beacon.	
25771 K 1582	Lata Lata.	0° 15.5' S 127° 00.8' E	Fl.W. period 2s	46 14	13	White metal framework structure; 33.	
25772 K 1620	Tanjung Nusanive.	3° 47.3' S 128° 05.6' E	Fl.W. period 5s	452 138	23	White metal framework tower; 98.	Visible 254° -094° and in the bay to 195° . Radiobeacon.
25773 K 1619	P. Nusatelu, P. Ela.	3° 39.1' S 127° 54.3' E	Fl.W. period 4s	197 60	10	White beacon.	
25776 K 1621	Tandjung Sikula.	3° 43.1' S 128° 05.2' E	Fl.R. period 10s	43 13	7	White metal framework tower; 39.	
25780 K 1621.4	Tandjung Wainitu.	3° 42.1' S 128° 09.8' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	56 17	8	Green beacon.	
25782 K 1622	Ambon.	3° 41.7' S 128° 10.5' E	Fl.W. period 3s fl. 0.8s, ec. 2.2s	82 25	12	White wooden mast; 10.	
25783 K 1622.5	-N. of Batumerah.	3° 40.6' S 128° 11.3' E	Fl.W. period 3s	39 12	8	White beacon.	
25784 K 1623	Halong.	3° 39.7' S 128° 11.7' E	Fl.G. period 5s	26 8	4	STARBOARD (A) G, beacon, topmark.	
25788 K 1623.5	Martafonds.	3° 39.4' S 128° 12.0' E	Fl.R. period 6s	26 8	4	PORT (A) R, beacon, topmark.	
25791 K 1624.5	Tg. Kailolo.	3° 31.3' S 128° 25.8' E	Q.(6)+L.Fl.W. period 15s	33 10	5	White beacon; 16.	
25791.4 K 1624.7	Pelauw.	3° 30.1' S 128° 26.2' E	Q.(3)W. period 10s	33 10	5	White beacon.	

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(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDONESIA (LESSER SUNDA ISLANDS)							
PULAU SERAM:							
25792 K 1604	-Wahai, pier, head.	2° 47.0' S 129° 29.0' E	FR.	26 8	2	White metal framework tower.	
25794 K 1605.5	-Teluk Hatiling.	2° 47.2' S 129° 30.9' E	Fl.R. period 3s	46 14	10		
25796 K 1605	--NW.	2° 46.6' S 129° 30.6' E	Fl.G. period 4s	46 14	10		
25797 K 1606	-Bula.	3° 06.2' S 130° 30.1' E	Fl.(4)W. period 8s		10	White metal mast; 23.	
25798 K 1610.5	-Tanjung Namalen.	3° 57.0' S 131° 25.1' E	Fl.R. period 5s	46 14	12		
25800 K 1608	-Pulau Geser, pier, head.	3° 52.0' S 130° 54.0' E	FR.	33 10	2	White metal framework tower.	Visible 334° 30' -008° and 136° -244°. Exhibited when ships are expected.
25802 K 1610.7	-Karang Madorang.	3° 38.6' S 131° 03.6' E	Fl.(2)W. period 10s	46 14	12		
25803 K 1611.8	Teluk Elpapatih, Tg. Kuako.	3° 19.6' S 128° 54.7' E	Fl.W. period 4s	55 17	10	White beacon.	
25803.5 K 1612	-Teluk Amahai.	3° 20.2' S 128° 55.5' E	Fl.W. period 3s	55 17	10	White beacon.	
25803.7 K 1612.5	-Haruru.	3° 17.7' S 128° 57.0' E	Fl.W. period 3s	46 14	12		
25804 K 1616	Sapura Bay, landing pier, head.	3° 35.2' S 128° 37.5' E	FR.	25 8	1	White metal framework tower.	
25806 K 1613	Teluk Piru, Pulau Kasa.	3° 19.0' S 128° 08.2' E	Fl.W. period 5s	46 14	10	White beacon.	
25808 K 1625	Saanggi.	4° 19.5' S 129° 42.2' E	Fl.(3)W. period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 10.5s	400 122	25	White beacon.	
25810 K 1598	Bingkudu Island.	5° 20.6' S 127° 46.7' E	Fl.W. period 5s fl. 1s, ec. 4s	82 25	15	White concrete beacon tower; 66.	
PULAU BANDA:							
25812 K 1626	-Pulau Naira, S. side, pier, head.	4° 31.5' S 129° 53.5' E	Fl.W. period 3s	46 14	12		
25816 K 1626.5	--Tg. Batu Mati.	4° 30.1' S 129° 53.3' E	Fl.R. period 10s	42 13	7	White beacon; 20.	
25820 K 1626.3	-Pulau Kraka.	4° 30.2' S 129° 53.0' E	Fl.G. period 5s	36 11	7	White framework tower; 33.	
25824 K 1628	Bui.	5° 06.7' S 131° 59.8' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	49 15	12	White iron framework structure; 49.	
25828 K 1628.5	Pulau Koer.	5° 18.7' S 132° 00.4' E	Fl.(3)W. period 20s	393 120	40	Beacon.	
25830	Kaitanimbar.	6° 00.5' S 132° 26.2' E	Fl.(3)W. period 10s	197 60	20	White structure.	
25832 K 1629	-Tual.	5° 34.2' S 132° 40.3' E	Fl.R. period 3s	59 18	4	PORT (A) R, beacon, topmark.	

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INDONESIA (LESSER SUNDA ISLANDS)							
25833 <i>K 1629.3</i>	Selat Doe Rowa, NW. of Oeboer.	5° 34.5' S 132° 42.7' E	Fl.G. period 6s	27 8	6	STARBOARD (A) G, beacon.	
25833.5 <i>K 1630.4</i>	Pulau Duroa, SE. end.	5° 32.9' S 132° 45.5' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	26 8	6	STARBOARD (A) G, beacon, topmark.	Radar reflector.
25834 <i>K 1629.36</i>	-Ngadi.	5° 34.6' S 132° 45.3' E	L.Fl.W. period 5s fl. 2s, ec. 3s	59 18	7		Fl.Y. 1.5s 7m 5M light 300 meters W and Fl.Y. 2.5s 7m 5M light 300 meters N. Radar reflector.
25836	Oeboer.	5° 35.9' S 132° 43.8' E	Fl.G. period 3s	33 10	4	White iron framework structure; 33.	
25837 <i>K 1629.8</i>	Mangon.	5° 36.2' S 132° 44.2' E	Fl.R. period 3s	27 8	4	PORT (A) R, beacon, topmark.	
25840 <i>K 1630</i>	-Kai Duloh Tual.	5° 38.3' S 132° 44.2' E	Fl.W. period 3s	33 10	5		
25844 <i>K 1630.6</i>	-Tegal Reef.	5° 28.5' S 132° 49.3' E	Fl.W. period 5s	56 17	12	White metal framework tower.	
25848 <i>K 1631</i>	-Elat, pier, head.	5° 39.1' S 132° 59.3' E	Fl.W. period 3s	26 8	10	White metal framework tower.	
25850 <i>K 3341</i>	-Tg Aika.	4° 52.4' S 136° 44.8' E	Q.(2)W. period 10s fl. 0.4s, ec. 0.6s fl. 0.4s, ec. 8.6s	102 31	17		
25852 <i>K 3342.4</i>	Aika River Range, front.	4° 52.0' S 136° 47.0' E	Q.W.	23 7	6	Beacon.	
25856 <i>K 3342.41</i>	-Rear.	4° 52.0' S 136° 47.0' E	Oc.W. period 4.5s	47 14	6	Beacon.	
25860 <i>K 3342.6</i>	Inner Aika River Range, front.	4° 50.0' S 138° 47.0' E	Q.W.	23 7	6	Beacon.	
25864 <i>K 3342.61</i>	-Rear.	4° 50.0' S 136° 47.0' E	Oc.W. period 4s	42 13	6	Beacon.	
25868	Aika River.	4° 50.0' S 136° 50.0' E	Fl.W. period 4s	36 11	6	Beacon.	
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NEW GUINEA (IND.)

25872 <i>K 1632</i>	Kepulauan Aru, Pulau Wamar, on Ular Point.	5° 45.1' S 134° 10.8' E	L.Fl.W. period 5s fl. 2s, ec. 3s	73 22	12	White iron structure; 42.	Visible 018° -271°.
25876 <i>K 1633</i>	-Pulau Warilau, N. end.	5° 19.7' S 134° 34.1' E	Fl.W. period 4s	98 30	10	White framework tower.	
	-RACON		K(- • -)				
25884 <i>K 1632.4</i>	-Dobo, pier, head.	5° 45.4' S 134° 13.4' E	F.R.	26 8	4	White metal framework tower.	Shown when vessels are expected.
25886 <i>K 1632.6</i>	-Fuel Depot.	5° 49.1' S 134° 13.9' E	Fl.W. period 3s	33 10			
25886.3 <i>K 1632.7</i>	-Pulau Kultubai.	6° 49.9' S 134° 47.2' E	Fl.(2)W. period 12s fl. 1.5s, ec. 2s fl. 1.5s, ec. 7s	115 35	20	White beacon; 98.	
25886.5 <i>K 1632.8</i>	-Enu Island.	7° 05.3' S 134° 29.0' E	Fl.W. period 10s	151 46	23	White concrete beacon tower; 131.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
NEW GUINEA (IND.)							
25887 K 3336	Sungai Torasi.	9° 07.8' S 141° 00.9' E	Fl.W. period 3s	46 14	10	White beacon.	
25888 K 3338	Tg. Mimiabe.	8° 30.0' S 140° 22.0' E	Fl.(4)W. period 20s fl. 1s, ec. 3s fl. 1s, ec. 3s fl. 1s, ec. 3s fl. 1s, ec. 7s	144 44	18	White iron structure; 65.	Shown only on request. Radiobeacon.
25890 K 3339.2	-Sungai Merauke.	8° 28.8' S 140° 23.4' E	Fl.W. period 6s	82 25	20	White beacon.	
25892 K 3339	-Range, front.	8° 27.6' S 140° 21.7' E	Fl.W. period 4s	46 14	10	Beacon, white triangular topmark, point up; 30.	Occasional.
25896 K 3339.1	--Rear, 300 meters 035° from front.	8° 27.4' S 140° 21.8' E	Fl.W. period 3s	69 21	12	White metal framework tower, triangular topmark, point down; 52.	Occasional.
25897.5 K 3338.4	Pelabuhan Merauke.	8° 30.7' S 140° 18.7' E	Fl.R. period 3s	42 13	12		
25898 K 3338.5	-Merauke.	8° 29.8' S 140° 19.3' E	Fl.R. period 4s	39 12	10	Red metal framework tower.	
25899 K 3338.7	-Merauke Inner.	8° 28.6' S 140° 21.1' E	Fl.G. period 5s	44 13	10	Green framework structure.	
25900 K 3339.6	Yatum.	8° 27.2' S 140° 18.8' E	Fl.W. period 6s	82 25	10	White iron framework structure; 82.	
25902 K 3339.8	Tanjung Mawal.	8° 07.1' S 139° 57.0' E	Fl.W. period 3s	43 13	12	White beacon.	
25904 K 3340	Habee.	8° 14.5' S 139° 26.5' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	46 14	7	White metal framework tower; 26.	Visible 242° -110° .
	RACON		M(- -)				
25906 K 3340.5	Selat Muli.	8° 23.6' S 138° 59.0' E	Fl.R. period 4s	39 12	10	Red metal framework tower.	
25906.1 K 3340.51	-NW.	8° 21.2' S 138° 57.9' E	Fl.G. period 3s	46 14	10	Green beacon.	
25906.3 K 3340.52	-Kimaan.	8° 00.7' S 138° 53.6' E	Fl.W. period 6s	75 23	19	White beacon.	
25906.7 K 3340.69	Tanjung Kolff.	7° 23.3' S 138° 32.1' E	Fl.W. period 3s	43 13	12	White beacon.	
25907 K 3340.7	Sungai Digul.	6° 56.0' S 138° 31.8' E	Iso.W. period 2s	39 12	10	White metal framework tower.	
25907.1 K 3340.65	-S. estuary.	7° 10.3' S 138° 49.0' E	Fl.R. period 5s	43 13	12	Red beacon.	
25907.15 K 3340.67	Habeeaman.	7° 11.6' S 138° 57.7' E	Fl.G. period 5s	46 14	15		
25907.2 K 3340.68	-Modderhock.	7° 11.6' S 138° 39.0' E	Fl.G. period 4s	43 13	12	Green beacon.	
25907.25 K 3340.94	Atay.	5° 51.1' S 138° 09.2' E	Fl.R. period 5s	46 14	10	PORT (A) R, beacon, topmark.	
25907.3 K 3340.95	Kampung River, entrance.	5° 51.9' S 138° 15.7' E	Fl.G. period 3s	43 13	12	STARBOARD (A) G, beacon, topmark.	
25907.4 K 3340.8	Flamingo Bay.	5° 36.7' S 137° 57.8' E	Fl.G. period 3s	43 13	12	Green beacon.	
25907.6 K 3340.85	-Agats.	5° 32.9' S 138° 02.0' E	Iso.W. period 2s	43 13	12	White beacon.	
25907.62 K 3340.87	--Sungai Utumbuwe.	5° 32.9' S 138° 08.2' E	Fl.W. period 3s	75 23	19	White beacon.	

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NEW GUINEA (IND.)							
25907.65 K 3340.9	-Utumbuwe River, entrance.	5° 33.3' S 138° 04.1' E	Fl.G. period 3s	43 13	12	Green beacon.	
25907.8	Amampare, buoy A.	4° 55.7' S 136° 40.1' E	Mo.(A)W.			Conical buoy.	
	RACON		O(---)				
25908 K 3343	Nime.	4° 45.1' S 136° 31.3' E	Fl.(2)W. period 12.5s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9.5s	52 16	12		
25910 K 3345.4	Pulau Nusurumi.	3° 50.2' S 134° 04.8' E	Fl.W. period 5s	187 57	12	White beacon.	
25912 K 3345.5	Palau Adi.	4° 19.0' S 133° 37.0' E	Fl.(3)W. period 15s	98 30	16	White structure.	
25914 K 3343.5	Pulau Keliwala.	3° 59.3' S 133° 30.5' E	Fl.W. period 3s	43 13	12	White beacon.	
25916 K 3345.3	Bitsyaru.	3° 43.2' S 133° 47.8' E	F.(3)W. period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9.5s	246 75	14	White iron framework structure; 49.	
25917 K 3345	Kaimana.	3° 39.7' S 133° 44.7' E	F.R.	19 6	2		Temporarily extinguished (1987).
25917.5 K 3344.7	Tanjung Simora.	3° 40.2' S 133° 40.9' E	Fl.W. period 3s		12		
25918 K 3344.5	Serotte Island.	3° 34.2' S 133° 37.5' E	Fl.(2)R. period 10s	164 50	12		
25920 K 3346	Pulau Panjong, E. end.	3° 00.0' S 132° 18.0' E	Fl.(3)W. period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9.5s	112 34	7	White iron skeleton; 43.	Visible 139° 30' -094° 30' .
25922 K 3347.6	Pulau Ekka.	2° 58.5' S 132° 05.6' E	Fl.(2)W. period 10s	164 50	20	White beacon.	
25923 K 3347.5	Meti Meti.	2° 57.3' S 132° 16.7' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s	49 15	6	PORT (A) R, beacon, topmark.	
25924 K 3347	Fakfak.	2° 56.3' S 132° 17.3' E	Fl.W. period 3s	39 12	5	White beacon.	
25925 K 3347.7	Batu Putih, W. end.	2° 56.7' S 131° 57.6' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	180 55	12	White beacon.	
25926 K 3356	Tg. Putus.	2° 03.6' S 132° 02.5' E	Fl.W. period 3s	46 14	12	White beacon.	
25928 K 3349	Tanjung Sabra.	2° 17.0' S 132° 17.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	52 16	7	White iron structure; 49.	Visible 311° -119° .
25930 K 3352	Tg. Karakra.	2° 17.5' S 132° 40.6' E	Fl.W. period 3s	43 13	12	White beacon.	
25932 K 3354	Tanjung Tanahmerah.	2° 27.0' S 133° 07.0' E	Fl.(3)W. period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9.5s	165 50	12	White skeleton structure; 33.	Visible 078° -253° .
25936 K 3350	Kokas.	2° 42.0' S 132° 25.2' E	Fl.Y. period 2s fl. 0.5s, ec. 1.5s	36 11	5	Framework tower; 16.	
25938 K 3348.7	Tanjung Wetin.	2° 41.8' S 132° 05.8' E	Fl.W. period 3s	102 31	12		

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NEW GUINEA (IND.)							
25940 K 3348.4	Pulau Sabuda, NE. point.	2° 37.5' S 131° 39.0' E	Fl.(2)W. period 18s fl. 0.5s, ec. 3s fl. 0.5s, ec. 14s	328 100	12	White iron framework structure; 56.	Obscured 034° to 090° and at 106° by Sengeng.
25944 K 3358	Jef Joes.	1° 45.4' S 131° 08.0' E	Fl.W. period 7.5s	108 33	16	White iron skeleton structure; 66.	Obscured 018° -060° .
25948 K 3360	Umpe Island, W. end.	1° 29.0' S 130° 59.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	36 11	7	White skeleton structure; 34.	Visible 311° -150° .
25948.5 K 3360.5	Pulau Nampale.	1° 47.4' S 129° 37.8' E	Fl.(3)W. period 20s fl. 0.5s, ec. 3s fl. 0.5s, ec. 3s fl. 0.5s, ec. 12.5s	151 46	20		
25948.7 K 1603.5	Pulau Boo Besar.	1° 10.1' S 129° 18.0' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	112 34	15	Concrete tower; 98.	
25949 K 3361	Pulau Kofiau.	1° 10.4' S 129° 58.1' E	Fl.W. period 5s	151 46	20		
	RACON		D(- • •)		12		
	SELAT SELE:						
25952 K 3373	-Pulau Ram.	0° 51.0' S 131° 11.0' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	29 9	6	Red beacon.	
25956 K 3373.3	-Pulau Buaya.	0° 50.3' S 131° 12.5' E	Fl.(4)W. period 25s	282 86	22	White beacon; 66.	Radiobeacon.
	-RACON		K(- • -)				
25960	-Sorong Approach Lighted Buoy, N. side of 1 3/4 fathom shoal.	0° 52.0' S 131° 13.7' E	Fl.W. period 10s			Red and white striped buoy.	Radar reflector.
25962 K 3366.5	Sorong.	0° 52.9' S 131° 14.7' E	Fl.W. period 4s fl. 1s, ec. 3s	43 13	10	White beacon.	
25964 K 3374	Doom Island.	0° 53.1' S 131° 13.9' E	Fl.G. period 2s fl. 0.5s, ec. 1.5s	23 7	5	STARBOARD (A) G, beacon, topmark; 16.	
25968 K 3366	-Dopior Islet.	0° 52.8' S 131° 14.1' E	Fl.R. period 2s fl. 0.5s, ec. 1.5s	33 10	5	White metal framework tower, red square daymark; 16.	
25972 K 3368	-Sorong Range, about 1.9 kilometers SE. of Tanjoeng Noejew, common front.	0° 53.0' S 131° 15.5' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	33 10	6	White metal framework tower, cone topmark; 16.	
25976 K 3368.1	--Rear, 1.9 kilometers 102° 30' from front.	0° 53.2' S 131° 16.3' E	Iso.W. period 4s	196 60	8	White framework tower, cone topmark, point down; 16.	
25980 K 3367.9	--Rear, 841 meters 032° from front.	0° 52.8' S 131° 15.4' E	Iso.W. period 4s	79 24	6	White cone daymark; 16.	
25984 K 3368.5	-Karang Dua.	0° 54.0' S 131° 15.0' E	Fl.(2)W. period 10s	23 7	5	ISOLATED DANGER BRB, topmark.	
25988 K 3372	-Pulau Tsiof.	0° 54.0' S 131° 11.0' E	Fl.(3)W. period 15s	36 11	6	White iron structure.	Obscured 207° -295° .
25992 K 3379	-Balbili Island.	1° 06.0' S 131° 11.0' E	Fl.(2)W. period 12.5s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9.5s	20 6	6	White hut on piles; 8.	Visible 130° -015° .

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NEW GUINEA (IND.)							
26000 K 3381	-Segarou Island, on reef northward, front.	1° 10.1' S 131° 06.5' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	23 7	6	Red column; 13.	
26004 K 3381.1	--Rear, 7.4 kilometers 195° 30' from front.	1° 14.1' S 131° 05.4' E	Fl. G. period 5s fl. 0.5s, ec. 4.5s	46 14	6	White structure, white triangular daymark, point down; 33.	
26008 K 3382	-Unaginim.	1° 12.0' S 131° 07.0' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	26 8	5	White hut on piles; 8.	
26012 K 3384	-Kampung Wiljam.	1° 17.0' S 131° 59.6' E	Fl.R. period 5s	23 7	6	Red beacon; 16.	
26016 K 3386	-Membok Island, on reef, NE.	1° 24.4' S 130° 54.4' E	Fl.R. period 10s	43 13	8	White framework tower, red square daymark; 16.	
26018 K 3387	Kepulauan Kabu, Ifmoen.	1° 08.7' S 130° 34.3' E	Fl.W. period 7.5s	108 33	12	White beacon.	
26020 K 3362	Selat Sagewin, Pulau Batanta, S. side.	0° 55.0' S 130° 36.0' E	Fl.(2)W. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	378 115	12	White iron framework tower; 33.	Visible 261° -077° .
26021 K 3362.5	Pulau Agusta.	0° 38.8' S 130° 34.8' E	Fl.W. period 5s	74 22	15	White concrete tower.	
26022 K 3363	Saonek Besar.	0° 28.2' S 130° 46.9' E	Fl.W. period 7.5s	203 62	15	White beacon.	
26024 K 3376	Mios Su (Amsterdam).	0° 20.5' S 132° 10.5' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	56 17	14	White iron skeleton structure; 54.	Visible 089° -272° .
26028 K 3376.5	Saokorem.	0° 33.0' S 133° 09.1' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	105 32	14	White iron framework structure; 98.	
26032 K 3389	Tg. Memori.	0° 51.8' S 134° 08.1' E	Fl.(3)W. period 15s	52 16	12		Visible 132° -343° .
26036 K 3391	Butsiuri Reef, Menukwari Road.	0° 53.0' S 134° 05.0' E	Fl.R. period 5s	36 11	7	White metal beacon; 13.	
26040 K 3390	Manukwari Coal Depot Range, front.	0° 51.8' S 134° 04.8' E	F.G.	17 5	4	White triangular daymark, point up.	Occasional.
26044 K 3390.4	Manokwari, pier.	0° 51.8' S 134° 04.8' E	F.R.		10	Red metal mast.	Occasional.
26048 K 3390.1	-Rear, 85 meters 006° 30' from front.	0° 51.9' S 134° 04.5' E	Iso.W. period 2s	30 9	14	White triangular daymark, point down.	Occasional.
26052 K 3392	Palau Numfoor.	0° 56.6' S 134° 49.5' E	Fl.W. period 5s	147 45	18	White metal framework tower; 53.	Visible 060° -238° , partially obscured-255° .
26053	Pulau Bepondi.	0° 24.6' S 135° 15.8' E	Fl.W. period 5s	75 23	20		
26055	Teluk Wabudori.	0° 40.1' S 135° 36.4' E	Fl.W. period 6s	49 15	12		
26056 K 3392.7	Rani.	0° 58.5' S 135° 30.3' E	Fl.W. period 3s	56 17	12		
26058 K 3392.8	Pulau Miosmbi.	1° 04.6' S 136° 23.5' E	L.Fl.W. period 8s fl. 2s, ec. 6s	52 16	18	White beacon.	
26060 K 3393	Sorido Outer Range , front.	1° 11.4' S 136° 05.7' E	Iso.W. period 2s	49 15	15	Framework tower, white triangular daymark, point up; 7.	Channel marked by Iso.G. 6s and Iso.R. 6s.
26064 K 3393.1	-Rear, about 260 meters 322° from front.	1° 11.3' S 136° 05.5' E	Iso.W. period 2s	66 20	15	White mast, white triangular daymark, point down; 26.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
NEW GUINEA (IND.)							
26068 K 3393.3	-Inner Range, front.	1° 11.1' S 136° 04.5' E	Iso.W. period 8s	49	15	White mast, white triangular daymark, point up; 20.	
26072 K 3393.4	--Rear, 240 meters 295° from front.	1° 11.0' S 136° 04.2' E	Iso.W. period 8s	56	17	White mast, white triangular daymark, point down; 20.	
26076 K 3393.5	-Biak AVIATION LIGHT.	1° 11.6' S 136° 08.3' E	L.Fl.W. period 5s fl. 2s, ec. 3s	331	101	White iron skeleton structure; 18.	Visible 268° -094° except where obscured by islands.
26080 K 3392.5	Tanjung Oransbari.	1° 20.7' S 134° 17.3' E	Oc.W. period 4s lt. 3s, ec. 1s	164	21	White beacon.	
26081 K 3395.15	Tg. Yanimerai.	1° 44.2' S 134° 12.2' E	Fl.Y. period 4s	79	24	SPECIAL Y, beacon, topmark.	
26082 K 3395.2	Tg. Wandoswaar.	2° 00.5' S 134° 21.6' E	Fl.Y. period 4s	49	15	SPECIAL Y, beacon, topmark.	
26084	Serui, W. pier, inner head.	1° 53.0' S 136° 15.0' E	Q.R.	23	7	White pole mast, white triangular topmark point down, red lantern on white house; 16.	
26088 K 3393.6	Rasi Island, S. end.	1° 20.5' S 136° 37.5' E	Fl.(3)W. period 15s	39	12	White metal framework tower; 53.	Visible 226° -106° .
26092 K 3396.8	Pulau Kumamba Liki.	1° 35.0' S 138° 43.0' E	L.Fl.W. period 5s	144	18		
26096 K 3395	Tg. Woka, W. extremity of Jopen Island.	1° 36.0' S 135° 25.0' E	Fl.W. period 3s	131	40	White tower; 33.	
26100 K 3395.6	Nabire.	3° 06.3' S 135° 32.6' E	Fl.W. period 5s	66	20	White iron tower; 33.	
26101 K 3395.59	Pulau Notabari.	3° 06.1' S 135° 09.6' E	Fl.Y. period 4s	79	24	SPECIAL Y, beacon, topmark.	
26104 K 3395.8	Teluk Kimi.	3° 14.0' S 135° 35.0' E	Fl.(2)W. period 8s	75	23		
26104.5 K 3395.9	Tanjung Kamengsenu.	2° 41.8' S 136° 01.2' E	Fl.W. period 4s	174	18		
26105 K 3396	-Naufi.	2° 13.2' S 136° 15.5' E	L.Fl.W. period 10s	115	35	Beacon.	
26105.5 K 3396.2	Tanjung Worisanua.	2° 12.4' S 136° 25.3' E	Fl.W. period 6s fl. 1s, ec. 5s			White beacon.	
26106 K 3395.3	-Karang-Karang Tydeman.	2° 08.2' S 135° 18.6' E	Fl.W. period 6s	36	11	Beacon.	
26106.5 K 3395.35	Pulau Matas.	2° 12.5' S 134° 45.7' E	Fl.Y. period 4s	46	14	SPECIAL Y, beacon, topmark.	
26107 K 3395.4	-Pulau Kubuai.	2° 32.9' S 134° 53.0' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	46	14		
26107.5 K 3395.5	-Yop.	2° 32.0' S 134° 23.5' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	46	14		
26107.7 K 3395.55	-Teluk Wandamen, Mie.	2° 43.6' S 134° 30.2' E	L.Fl.W. period 10s fl. 2s, ec. 8s	42	13	Beacon.	
26108 K 3393.7	Tg. Rainbawa.	1° 47.0' S 136° 54.0' E	Fl.W. period 3s	85	26	White iron skeleton structure, white diamond topmark; 52.	Visible 167° -055° .
26112 K 3396.6	Mamberamo.	1° 27.7' S 137° 53.7' E	Fl.W. period 5s	102	31		
26115 K 3396.9	Pulau Armo.	1° 42.6' S 138° 48.0' E	Q.(6)+L.Fl.W. period 15s	52	16	S. CARDINAL YB, beacon, topmark.	

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NEW GUINEA (IND.)							
26116 K 3397	Sarmi.	1° 51.0' S 138° 45.0' E	Fl.W. period 5s	59 18	6	White metal framework tower; 20.	
26117 K 3397.5	Holmaffin.	1° 57.8' S 138° 52.7' E	Fl.W. period 5s	46 14	12		
26118	Jamna.	2° 00.5' S 139° 14.5' E	Fl.W. period 6s	75 23	18		
26119 K 3397.8	Tg. Kamdara.	2° 19.1' S 140° 06.8' E	Iso.W. period 10s	141 43	17		
26119.5 K 3397.95	Tg. Kelapa.	2° 26.4' S 140° 36.7' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	39 12	14	White beacon.	
26120 K 3398	Soeadja Moko.	2° 31.9' S 140° 44.8' E	Fl.(3)W. period 24s	705 215	35		
	RACON		K(- • -)		10		
26122 K 3398.5	Nembawewe.	2° 33.4' S 140° 45.8' E	L.Fl.R. period 6s	52 16	18	PORT (A) R, beacon.	
26123 K 3398.9	Hollandia Baai, NW. of Entsjau.	2° 32.5' S 140° 43.2' E	Fl.R. period 4s	44 13	12		
26123.5 K 3398.8	-N. side of harbor.	2° 32.3' S 140° 42.8' E	Fl.G. period 5s	44 13	12		
26124 K 3399	-Noebae Han, front.	2° 32.0' S 140° 43.0' E	Q.W.	56 17	6	White wooden post, white triangular topmark, point up.	
26128 K 3399.1	--Rear, 151 meters 255° from front.	2° 32.5' S 140° 42.4' E	Oc.W. period 4s	72 22	6	White wooden post, white triangular topmark, point down.	
26129 K 3399.8	Oinake.	2° 36.8' S 141° 00.0' E	Fl.(2)W. period 12s	656 200	20	White structure.	
PAPUA NEW GUINEA							
26130 K 3400	Cape Concordia.	2° 40.7' S 141° 18.5' E	Fl.W. period 5s fl. 0.2s, ec. 4.8s	223 68	10	White framework tower; 30.	
26132 K 3400.15	Stein Reef.	3° 07.8' S 142° 21.9' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	20 6	9	White concrete column; 19.	
26134 K 3400.18	Walis Island.	3° 14.8' S 143° 18.1' E	Fl.(2)W. period 6s	20 6	9	White column.	
26136 K 3400.2	Unei Island.	3° 22.8' S 143° 24.5' E	Fl.(4)W. period 16s	20 6	9	White 3-pile structure.	
26140 K 3400.4	Cape Samein.	3° 26.1' S 143° 32.6' E	Fl.W. period 5s	20 6	9	White 3-pile structure.	
26142 K 3400.6	Wewak.	3° 33.8' S 143° 38.8' E	Fl.G. period 5s	26 8	5	STARBOARD (A) G, beacon, topmark.	
26142.1 K 3400.7	-W. side.	3° 33.4' S 143° 37.8' E	Fl.R. period 3s	16 5	5	PORT (A) R, beacon, topmark.	
26144 K 3401	Cape Moem.	3° 33.1' S 143° 42.1' E	Fl.(3)W. period 12s	52 16	10	White framework tower; 49.	
26152 K 3401.4	Condor Point.	4° 07.5' S 144° 51.8' E	Fl.(2)W. period 8s fl. 0.4s, ec. 1s fl. 0.4s, ec. 6.2s	50 15	10	White framework tower; 52.	

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PAPUA NEW GUINEA							
26156 K 3401.6	Cap Gourdon.	4° 23.0' S 145° 18.6' E	Fl.(3)W. period 9s fl. 0.3s, ec. 1s fl. 0.3s, ec. 1s fl. 0.3s, ec. 6.1s	50 15	12	White framework tower; 62.	
26160 K 3401.8	Cape Croisilles.	4° 50.6' S 145° 48.4' E	Fl.(2)W. period 6s fl. 0.3s, ec. 1s fl. 0.3s, ec. 4.4s	55 17	12	White framework tower; 49.	Visible 135° -338° .
26164 K 3403	Madang Entrance Range, front , on Beliau Island.	5° 12.0' S 145° 49.0' E	Fl.W. period 1.3s fl. 0.3s, ec. 1s	24 7	7	White steel framework tower, white triangular daymark; 18.	Visible 195° -040° .
26168 K 3403.1	-Rear, 87 meters 300° from front.	5° 12.2' S 145° 49.6' E	Oc.W. period 4s lt. 2.5s, ec. 1.5s	48 15	8	White steel framework tower, white triangular daymark; 34.	Visible 291° -309° , intensified 297° -303° .
26169 K 3403.4	Kranket Island Range, front.	5° 12.2' S 145° 50.2' E	Fl.W. period 2.5s	10 3	5	White pile.	
26169.5 K 3403.41	-Rear, 20 meters 073° 30' from front.	5° 12.2' S 145° 50.2' E	Fl.W. period 2.5s	16 5	5	White pile.	
26170 K 3403.2	-Boyes Reef.	5° 12.4' S 145° 50.2' E	Fl.G. period 3s	18 5	4	STARBOARD (A) G, beacon, topmark.	
26172 K 3402	Coast Watchers.	5° 12.8' S 145° 50.2' E	Fl.W. period 15s fl. 0.2s, ec. 14.8s	92 28	32	White concrete tower; 90.	Tower floodlit for 30 minutes every 3 hours.
26176 K 3404	AVIATION LIGHT, 3.1 kilometers 276° 30' from Kalibobo Point.	5° 13.0' S 145° 48.0' E	Fl.W. period 9.5s fl. 0.3s, ec. 9.2s	60 18	26		Occasional.
26184 K 3405.4	Kitumala Point.	6° 20.2' S 147° 48.8' E	Fl.(2)W. period 8s fl. 0.4s, ec. 1s fl. 0.4s, ec. 6.2s	85 26	10	White hut with lantern; 11.	Visible 140° -335° .
26188 K 3406	Nussing Island, Cape Cretin.	6° 39.6' S 147° 51.9' E	Fl.W. period 6s	70 21	10	Steel tower on concrete base; 65.	Visible 187° -060° , except where obscured by Tami Island.
26192 K 3408	Cape Gerhards.	6° 45.2' S 147° 33.4' E	Fl.(3)W. period 12s	71 22	10	Metal framework tower; 65.	
26200 K 3412	Lae, Mount Lunaman.	6° 43.7' S 147° 00.6' E	L.Fl.W. period 5s	327 100	11	White metal column, red top; 16.	Aero Radiobeacon 0.5 mile W.
26212 K 3415	Burnung Point.	7° 01.0' S 147° 04.0' E	Fl.(2)W. period 20s	151 46	15	White column; 13.	Visible 140° -300° .
26213.1 K 3422	Cape Ward Hunt.	8° 03.8' S 148° 07.6' E	Fl.W. period 4s	226 69	10		
26214 K 3422.5	Raymonde Shoal.	8° 13.0' S 148° 17.2' E	Fl.W. period 5s	52 16	10	Black tripod.	
26216 K 3423	Eve Shoal.	8° 31.0' S 148° 25.1' E	Fl.(2)W.R. period 8s	52 16	10	Black tripod; 30.	R. 125° -145° , W.-155° , R.- 175° , W.-125° .
26220 K 3424	Oro Bay Range, front.	8° 54.0' S 148° 28.0' E	Dir.Fl.W.R.G. period 3s	331 101	18		G. 239° -240° , W.-243° , R.- 244° .
26224 K 3424.1	-Rear, 244 meters 241° 30' from front.	8° 54.0' S 148° 28.0' E	Fl.W. period 10s	436 133	18	Metal framework tower.	
26228 K 3426	Spear Island.	8° 59.6' S 149° 07.8' E	Fl.W. period 6s	63 19	10	White steel framework structure; 49.	
26232 K 3428	Hall Point.	9° 02.7' S 149° 18.3' E	Fl.(2)W. period 6s fl. 0.3s, ec. 1s fl. 0.3s, ec. 4.4s	66 20	9	White hut, lantern; 11.	Visible 150° -330° .

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PAPUA NEW GUINEA							
TUFU HARBOR:							
26236 K 3430	-Range, front.	9° 05.4' S 149° 18.7' E	Oc.W. period 3s	100 30	10	White square daymark, black stripe; 30.	Visible 260° -345°.
26240 K 3430.1	--Rear, 1.65 miles 308° 30' from front.	9° 04.3' S 149° 17.3' E	Fl.W. period 5s	400 122	10	White square daymark, black stripe; 21.	Visible 280° -330° , partially obscured 175° -280° .
26244 K 3429	Veale Reef.	9° 12.0' S 149° 28.0' E	Fl.W. period 2.5s	30 9	11	White 3-pile structure.	
26248 K 3429.6	Ham Reef.	9° 12.1' S 149° 26.2' E	Fl.W. period 10s	52 16	10	Black tripod tower; 30.	
26252 K 3429.4	Greaves Reef.	9° 10.9' S 149° 26.5' E	Fl.(3)W. period 12s	36 11	10	White tripod.	
26256 K 3429.8	Stewart Reef.	9° 07.9' S 149° 23.0' E	Fl.R. period 1.5s	23 7	4	White pile.	
26260 K 3432	Ipoteto Island.	9° 37.9' S 150° 01.3' E	Fl.(2)W. period 8s	75 23	10	White framework tower; 82.	
26264 K 3438	Kegawam Island.	10° 21.3' S 151° 23.0' E	Fl.W. period 6s	50 15	10	White lattice tower; 50.	Obscured by trees in certain areas.
26268 K 3446	Hastings Island.	10° 20.5' S 151° 52.2' E	Fl.(2)W. period 6s	28 9	10	White hut with red lantern; 12.	Visible 317° -178° .
26272 K 3449	Lunn Island.	10° 47.3' S 152° 00.4' E	Fl.W. period 4s	48 15	10	White steel lattice tower; 48.	Visible 159° 30' -032° .
26276 K 3450	Pana Waipona Island.	11° 15.2' S 152° 08.1' E	Fl.W. period 10s	79 24	10	Steel framework tower, white lantern; 70.	
26280 K 3450.3	Misima Island, Bwagaioia Harbor.	10° 41.5' S 152° 50.9' E	Fl.W. period 5s	13 4	10	Beacon.	
26281 K 3450.4	-Maika Harbor Range, front.	10° 41.6' S 152° 47.5' E	F.Bu.	131 40	3		
26281.5 K 3450.41	--Rear, 100 meters 335° 55' from front.	10° 41.6' S 152° 47.5' E	F.Bu.	164 50	3		
26282 K 3450.44	--E. side.	10° 41.7' S 152° 47.6' E	Fl.(3)W. period 9s	36 11	2		
26283 K 3450.46	--W. side.	10° 41.7' S 152° 47.5' E	Q.R.	33 10	2		
26284 K 3450.5	Adele Island.	11° 26.8' S 154° 24.1' E	Fl.W. period 8s	141 43	16	White tower; 102.	
26288 K 3440	Shortland Reef.	10° 30.5' S 151° 07.9' E	Fl.(3)W. period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	36 11	10	White pile structure; 37.	
26292 K 3444	Bright Island, N. end.	10° 32.0' S 151° 12.7' E	Fl.W. period 2.5s	46 14	10	White tower; 46.	Visible 091° -266° .
26296 K 3448	Strathord Islands, N. islet.	10° 13.3' S 151° 52.0' E	Fl.(3)W. period 12s	55 17	10	White framework tower; 50.	Visible 037° -303° .
26304 K 3451.24	-S. side.	10° 15.1' S 150° 56.8' E	Fl.R. period 2s	13 4	4	PORT (A) R, topmark.	Radar reflector.
26308 K 3451.23	-N. side.	10° 14.9' S 150° 56.8' E	Fl.G. period 2s	13 4	4	STARBOARD (A) G, topmark.	Radar reflector.
26312 K 3451	Meimeia Island.	10° 13.5' S 150° 52.9' E	Fl.W. period 2.5s	114 35	10	White hut; 12.	Visible 238° -232° .
26316 K 3456	Brumer Island.	10° 45.4' S 150° 22.8' E	Fl.(3)W. period 15s	686 209	10	White square concrete tower; 22.	Partly obscured 283° -293° .

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PAPUA NEW GUINEA							
26320 K 3456.5	Ava Point.	10° 34.3' S 149° 52.7' E	Fl.W. period 12s	616 188	10	White square concrete tower; 21.	
26324 K 3455	Weka Una Rock.	10° 36.2' S 150° 36.4' E	Fl.(2)W. period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6s	33 10	10	White column on concrete base; 20.	
26328 K 3453	Sariba Island, N. extremity, 2.9 kilometers 018° from Mount Bilo Bilolo summit.	10° 34.0' S 150° 42.0' E	Fl.W. period 5s	40 12	10	White round pillar.	Visible 047° -221° .
26332 K 3452	Isulailai Point.	10° 33.5' S 150° 41.6' E	Fl.(2)W. period 6s	55 17	9	White framework tower; 13.	Visible 167° -031° .
26336 K 3451.4	Sanderson Bay.	10° 18.5' S 150° 26.9' E	Q.R.	31 9	3	White steel lattice tower.	
26340 K 3454	Samarai Island, off N. end.	10° 36.4' S 150° 39.7' E	Fl.W. period 3s	20 6	8	White pile structure; 20.	
26344 K 3456.7	Rothery Passage, W. Reef, E. end.	10° 21.2' S 148° 41.4' E	Fl.(3)W. period 15s	72 22	10	White framework tower; 72.	
26348 K 3457	Hood Point.	10° 06.3' S 147° 43.5' E	Q.(2)W. period 8s	72 22	10	White steel framework tower; 65.	Visible 283° -158° .
PORT MORESBY:							
26352 K 3458	-Basilisk Passage, Nateara Reef.	9° 32.5' S 147° 08.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	30 9	10	Pile structure, white hut; 31.	Radar reflector.
	-RACON		B(-••••) period 128s		10		
26356 K 3458.4	-Lark patch.	9° 31.5' S 147° 08.5' E	Fl.R. period 3s	16 5	3	White pile, red bands; 10.	
26360 K 3459	-Basilisk Passage Range, front.	9° 29.9' S 147° 11.1' E	Oc.W. period 4s	125 38	18	Beacon, white square daymark, black stripe.	Visible 356° -108° , intensified 029° -089° . F.R. on mast 2.7 miles NNW.
26364 K 3459.1	--Rear, 445 meters 054° from front.	9° 29.8' S 147° 11.3' E	Oc.W. period 6s lt. 4.5s, ec. 1.5s	294 90	10	White square concrete tower, white square daymark, black stripe; 22.	Visible 309° -116° , intensified 309° -101° .
26368 K 3461	-Logolu Motu Motu Reef, S. end.	9° 28.6' S 147° 08.1' E	Fl.G. period 2.5s	15 5	6	White column.	
26372 K 3461.2	--N. end.	9° 28.7' S 147° 08.1' E	Fl.(2)G. period 8s	15 5	6	White column.	
26376 K 3460	-Harbor Range, front.	9° 26.0' S 147° 08.0' E	Q.W.	39 12	12	Beacon, white rectangular daymark, black stripe.	
26380 K 3460.1	--Rear, 290 meters 354° from front.	9° 26.3' S 147° 07.7' E	Iso.W. period 4s	85 26	15	Beacon, white rectangular daymark, black stripe.	
26381 K 3460.2	Port Moresby Restricted Area, S. side.	9° 27.6' S 147° 07.2' E	Fl.R. period 4s				
26381.2 K 3460.205	Port Moresby Restricted Area, N. side.	9° 27.4' S 147° 07.2' E	Fl.R. period 4s				
26381.4 K 3460.21	Napa Napa.	9° 27.4' S 147° 07.1' E	Fl.R. period 4s				R. Lt. on flare stack 0.2M W.
26382 K 3460.3	-Vahunabada Reef.	9° 27.8' S 147° 08.4' E	Q.G.		3	White pile, black bands.	
26384 K 3464	Idihi Island.	9° 25.7' S 146° 52.9' E	Fl.(2)W. period 5s	75 23	10	Metal framework tower, white square daymark, red bands.	
26388 K 3463.4	Haidana Island, reef off W. side.	9° 27.6' S 147° 01.4' E	Fl.R. period 5s	20 6	4	White pile.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PAPUA NEW GUINEA							
26392 K 3463.8	Boera Head.	9° 23.3' S 147° 00.8' E	Fl.W. period 2.5s	108 33	14	White hut; 7.	
26396 K 3464.4	Redscar Head.	9° 16.1' S 146° 54.1' E	Fl.W. period 10s	254 77	10	White hut; 10.	
26400 K 3465	Yule Island.	8° 50.0' S 146° 32.1' E	Fl.(3)W. period 15s	178 54	14	White concrete tower; 22.	
26404 K 3469.7	Kumul.	8° 04.0' S 144° 33.6' E	Mo.(U)W. period 15s	62 19	15	Platform.	Shown from each corner. Horn: Mo.(U) 30s.
			Q.R.				
	RACON		Q(- - • -)				
26408 K 3469	Bristow Island.	9° 06.0' S 143° 17.0' E	Fl.(2)W. period 8s	20 6	10	White tower; 23.	
26411	Daru Island, NE.	9° 03.7' S 143° 13.1' E	Fl.W. period 2.5s	20 6	8		
26416 K 3436	Bomatu Point.	8° 23.8' S 151° 07.2' E	Fl.(3)W. period 15s	102 31	10	White framework tower; 62.	Visible 097° -290° .
26420 K 3437	Kitava Island.	8° 38.6' S 151° 20.3' E	Fl.W. period 7.5s	350 107	10	White framework tower; 50.	Visible 230° -080° , partially obscured 080° -155° .

Section 17

Burma, Bangladesh, India, Sri Lanka and Andaman Sea Including Andaman Islands, Nicobar Islands and Maldive Islands

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDIA-BAY OF BENGAL							
NICOBAR ISLANDS:							
-Great Nicobar:							
26424 <i>F 1224</i>	--Indira Point.	6° 45.3' N 93° 50.4' E	Fl.(2)W. period 20s	115 35	10	Round iron white tower, red bands; 114.	
	--RACON		G(- - •) period 95s		10		
26426 <i>F 1227.1</i>	--Rosen Point.	6° 57.3' N 93° 56.6' E	Fl.W. period 10s	75 23	13	Trestle tower on square masonry tower, black bands; 69.	
26428 <i>F 1225</i>	--Chisen.	6° 59.2' N 93° 55.6' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 6.5s	148 45	6	White square masonry tower; 20.	
26432 <i>F 1226</i>	--Campbell Bay Range, front.	7° 00.0' N 93° 55.0' E	Q.W.	36 11	5	Rectangular tower; 26.	
26436 <i>F 1226.1</i>	--Rear, 200 meters 323° 42' from front.	7° 00.7' N 93° 54.7' E	Fl.W. period 5s	75 23	5	Square tower, white and bands, white triangular daymark; 62.	
26437 <i>F 1224.1</i>	-- Kabra Island.	7° 17.5' N 93° 50.2' E	Fl.(3)W. period 20s	39 12	20	White framework tower, black bands.	
-Little Nicobar:							
26439 <i>F 1223.8</i>	--Menchal Island.	7° 23.7' N 93° 45.6' E	Fl.W. period 10s	154 47	10	Framework tower; 30.	
26440 <i>F 1223.6</i>	--Pulo Milo.	7° 24.4' N 93° 40.9' E	Fl.W. period 15s	174 53	8	White metal framework tower; 46.	
26446 <i>F 1223</i>	-Katchall Island, East Bay.	8° 00.4' N 93° 24.2' E	Fl.W. period 5s	141 43	10	White square concrete tower, red bands.	
26448 <i>F 1223.4</i>	--West Bay.	7° 55.6' N 93° 19.5' E	Fl.(3)W. period 15s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 11.5s	56 17	10	Concrete tower, black and white checkers; 36.	
26450 <i>F 1222.65</i>	Cape Connaught.	7° 55.8' N 93° 34.2' E	Fl.(2)W. period 15s fl. 0.5s, ec. 1s fl. 0.5s, ec. 13s	39 12	10	Square masonry tower, black bands; 39.	
26451 <i>F 1222.6</i>	-Nancowry Harbor, Naval Point Reef.	8° 02.0' N 93° 32.6' E	Fl.W. period 5s		1	Beacon.	
26451.1 <i>F 1222.58</i>	-Trinkat Island.	8° 02.4' N 93° 35.7' E	Fl.(4)W. period 20s	36 11		White round masonry tower.	
26451.2 <i>F 1222.8</i>	- Tillanchang Island.	8° 28.4' N 93° 37.0' E	Fl.W. period 10s	79 24	25	White framework tower, black bands.	
26451.3 <i>F 1222.55</i>	- Bompoka Island.	8° 13.6' N 93° 14.3' E	Fl.(2)W. period 20s fl. 1s, ec. 2s fl. 1s, ec. 16s	39 12	16	Red metal framework tower, white bands; 39.	
26451.4 <i>F 1222.5</i>	-Chowra Island.	8° 27.5' N 93° 03.3' E	Fl.W. period 15s	52 16	10	White metal framework tower; 39.	
	-RACON		B(- • • •)				

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDIA-BAY OF BENGAL							
26452 F 1222.4	-Batti Malv.	8° 50.4' N 92° 51.5' E	Fl.(4)W. period 20s	69 21	8	White metal framework tower; 39.	
	-Car Nicobar:						
26456 F 1222	--Malacca.	9° 09.8' N 92° 49.5' E	Fl.(2)W. period 10s fl. 0.5s, ec. 3s fl. 0.5s, ec. 6s	39 12	8	Tapered round tower.	
26459 F 1221.5	---Northward.	9° 10.3' N 92° 49.7' E	F.W.		13		
26460 F 1221	--Perka.	9° 11.1' N 92° 49.5' E	Fl.W. period 20s	39 12	8	Round tower.	
26464 F 1220	--Keating Point.	9° 15.3' N 92° 46.6' E	Fl.W. period 10s	115 35	26	White round metal tower, red bands; 123.	Radiobeacon.
	--RACON		O(---) period 95s		20		
26468 F 1220.2	--Sawai Bay.	9° 13.4' N 92° 45.9' E	Fl.W. period 5s	46 14	6	White triangular concrete tower; 30.	<i>Temporarily extinguished (1988).</i>
26472 F 1220.4	--New Hog Point.	9° 13.0' N 92° 43.5' E	Fl.(2)W. period 10s	46 14	6	White concrete tower, black bands.	
26476 F 1211	Rutland Island.	11° 20.8' N 92° 36.5' E	Fl.(3)W. period 15s	34 10	10	Square concrete tower; 10.	
26480 F 1212	-North Cinque Island.	11° 19.6' N 92° 43.8' E	Fl.W. period 10s	501 153	20	Masonry tower, red and white checkers.	
26481 F 1212.5	North Brother Island.	10° 59.2' N 92° 40.0' E	Fl.(2)W. period 20s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 14.5s	36 11	10	White metal framework tower, black bands; 12.	
26482 F 1212.8	South Sentinel Island.	10° 58.9' N 92° 13.6' E	Fl.W. period 15s	121 37	10	White metal framework tower, red bands; 118.	
26484 F 1214	Little Andaman.	10° 30.7' N 92° 29.5' E	Fl.W. period 10s fl. 0.2s, ec. 9.8s	167 51	20	White round concrete tower, black bands; 151.	
26488 F 1213	Hut Bay, breakwater.	10° 34.8' N 92° 34.1' E	Fl.R. period 3s		5		
ANDAMAN ISLANDS:							
26492 F 1205	-North Point.	11° 42.2' N 92° 45.9' E	Fl.(2)W. period 12s fl. 0.3s, ec. 2.7s fl. 0.3s, ec. 8.7s	235 72	20	White round metal tower, red diagonal stripes; 114.	
	-RACON		K(- • -)				
26496 F 1207	-Perseverance Point.	11° 41.4' N 92° 44.7' E	Fl.W. period 10s	33 10	10	White tower, orange bands; 16.	
26500 F 1208	-Command Point.	11° 41.8' N 92° 43.8' E	Fl.W. period 10s	36 11	5	White concrete tower; 20.	
26501 F 1208.5	-Blair Reef, E.	11° 40.9' N 92° 44.9' E	Fl.R. period 6s	10 3	6	Beacon.	
26502 F 1209.5	-Atlanta Point.	11° 40.5' N 92° 45.4' E	Fl.W. period 5s	108 33	6	White square masonry tower, red band; 33.	
26504 F 1210	-Mount Houghton.	11° 38.9' N 92° 44.9' E	Aero.F.R.	528 161	3	Gray round tower on top of round conspicuous building; 18.	
26508 F 1204	-Ross Island.	11° 40.9' N 92° 46.0' E	Fl.W. period 15s	39 12	10	White round masonry tower, black band; 39.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDIA-BAY OF BENGAL							
26512 <i>F 1203</i>	-Sir Hugh Rose Island.	11° 47.0' N 93° 06.0' E	Fl.W. period 7s fl. 0.4s, ec. 6.6s	187 57	20	Red and white round metal tower; 74.	
26513 <i>F 1210.5</i>	-Chidiyatapu.	11° 28.8' N 92° 42.7' E	Fl.(2)W. period 10s	171 52	10	White concrete tower, black bands.	
26514 <i>F 1202.9</i>	-Havelock Island, Stowe Point.	12° 02.9' N 92° 58.0' E	Fl.W. period 5s	26 8	10	White concrete tower; 26.	
26516 <i>F 1202.8</i>	-Baratang Island, S. end.	12° 04.9' N 92° 47.9' E	Fl.W. period 5s	177 54	8	White metal framework tower, black bands; 39.	Visible 216° -006° .
26518 <i>F 1202.68</i>	Wilson Island.	12° 08.7' N 92° 58.0' E	Fl.(2)W. period 20s	39 12	10	White framework tower, red bands; 39.	
26520 <i>F 1202.66</i>	Strait Island.	12° 12.0' N 92° 56.0' E	Fl.(3)W. period 20s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 16.5s	92 28	8	White metal framework tower; 39.	
26524 <i>F 1202.64</i>	South Button Island.	12° 13.3' N 93° 01.3' E	Fl.W. period 15s fl. 0.5s, ec. 14.5s	85 26	8	Red metal framework tower, white bands; 39.	
26528 <i>F 1202.62</i>	Middle Button Island.	12° 16.6' N 93° 01.8' E	Fl.(2)W. period 20s fl. 0.5s, ec. 1s fl. 0.5s, ec. 18s	125 38	8	White metal framework tower, black bands; 39.	
26532 <i>F 1202.6</i>	North Button Island.	12° 19.0' N 93° 04.2' E	Fl.W. period 10s fl. 0.5s, ec. 9.5s	190 58	8	White metal framework tower, black bands; 39.	
26536 <i>F 1202.7</i>	Barren Island.	12° 15.9' N 93° 50.7' E	Fl.W. period 15s fl. 0.5s, ec. 14.5s	73 22	8	White metal tower; 46.	
26538 <i>F 1202.57</i>	Kalapahar.	12° 19.2' N 92° 54.3' E	Fl.(2)W. period 10s	49 15	6	White framework tower; 39.	
26539 <i>F 1202.58</i>	North Passage Island, Cape Portman.	12° 18.4' N 92° 56.7' E	Fl.W. period 5s	95 29	13		
26539.4 <i>F 1202.59</i>	-NW. side.	12° 17.2' N 92° 54.8' E	Fl.(3)W. period 10s	39 12	12	Red and white metal framework tower; 39.	
26542 <i>F 1216</i>	Interview Island.	12° 53.3' N 92° 40.7' E	Fl.(2)W. period 20s		10	White square tower, black bands; 39.	
26544	Aves Island.	12° 54.8' N 92° 56.3' E	Fl.(2)W. period 7s	115 35	11		
26548 <i>F 1202.4</i>	Square Rock.	12° 55.6' N 92° 58.8' E	Fl.W. period 15s	42 13	10	Beacon.	
26552 <i>F 1201</i>	East Island.	13° 37.7' N 93° 03.5' E	Fl.W. period 15s	292 89	24	White round metal tower, red bands; 121.	Radiobeacon.
	RACON		D(- • •)				

BURMA-ANDAMAN SEA

26556 <i>F 1202</i>	Port Cornwallis, Ross Island, Bo pung.	13° 18.0' N 93° 05.0' E	Fl.(2)W. period 20s fl. 1s, ec. 2s fl. 1s, ec. 16s	134 41	10	Square masonry tower; 23.	
26557 <i>F 1202.2</i>	-Brush Islet.	13° 17.6' N 93° 03.1' E	Fl.W. period 5s	42 13	5		
26560 <i>F 1201.1</i>	Narcondam Island.	13° 27.0' N 94° 17.5' E	Fl.(3)W. period 20s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 16.5s	200 61	8	White metal framework tower; 46.	Visible 058° -179° .

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
BURMA-ANDAMAN SEA							
26564 <i>F 1200</i>	Table Island.	14° 11.0' N 93° 22.0' E	Fl.(4)W. period 25s fl. 1s, ec. 3s fl. 1s, ec. 3s fl. 1s, ec. 3s fl. 1s, ec. 12s	195 59	20	White round tower, red bands; 91.	Obscured 348°-013° and 031°-039°.
26570 <i>F 1158</i>	Pulau Palin.	9° 58.3' N 98° 30.0' E	Fl.W. period 5s			Square framework tower; 53.	
MERGUI HARBOR:							
26572 <i>F 1138</i>	-Kalwin Point.	12° 29.0' N 98° 35.0' E	Fl.W. period 3s	41 12	8	Iron framework tower, red and yellow bands, on concrete piles; 19.	Old structure exists close by.
26576 <i>F 1144</i>	-Seikkantha.	12° 26.6' N 98° 35.9' E	Q.W.	48 15	6	White square wooden structure surmounted by steel trestle, ball topmark; 61.	
26580 <i>F 1136</i>	Cornwall Point.	13° 05.0' N 98° 20.0' E	Fl.W. period 10s	40 12	10	Black and white checkered framework structure; 14.	
26584 <i>F 1132</i>	Mibya Kyun (Reef Island), W. side of entrance to Tavoy River.	13° 36.0' N 98° 13.0' E	Fl.W. period 5s	309 94	10	White square masonry tower, round lantern; 31.	Visible 164°-007°.
26588 <i>F 1131</i>	Kyaukpyn Kyun.	13° 46.0' N 97° 55.0' E	Fl.W. period 7s fl. 0.7s, ec. 6.3s	175 53	12	Black and white checkered structure; 14.	Visible 188°-139°.
26592 <i>F 1128</i>	Double Island, center.	15° 52.0' N 97° 35.0' E	Fl.W. period 15s	140 43	14	White masonry tower; 66.	Visible 353°-173°.
26596 <i>F 1126</i>	Green Island.	16° 04.0' N 97° 33.0' E	Fl.(2)W. period 10s	135 41	19	White masonry tower, red bands; 65.	
26600 <i>F 1124</i>	<i>Than Lwin Light Float.</i>	16° 06.1' N 97° 30.9' E	Fl.W. period 7.5s fl. 0.7s, ec. 6.8s	10 3	3	Red hull.	
RANGOON:							
26604 <i>F 1080</i>	- <i>Lanthaya Light Float.</i>	16° 12.1' N 96° 16.8' E	Fl.W. period 2s fl. 0.5s, ec. 1.5s	16 5	9	Red float.	Riding light Fl.W. 1.5s. Bell. Radar reflector.
26612 <i>F 1085</i>	- <i>Upper Light Float.</i>	16° 22.0' N 96° 20.5' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	16 5	9	Red hull, framework tower.	
26620 <i>F 1088</i>	-Eastern Grove Flats.	16° 30.0' N 96° 23.0' E	Oc.W. period 6s lt. 4s, ec. 2s	93 28	15	Red pile structure, black and white lantern; 105.	Visible 329°-037°. A faint light also visible 307°-329°.
26624 <i>F 1093</i>	-Pilakat Chaung (Deserters Creek) Lower Range, front.	16° 30.0' N 96° 17.0' E	Q.W.	30 9	5	White iron tower.	
26628 <i>F 1093.1</i>	--Lower Range, rear 274 meters 298° 30' from front.	16° 29.8' N 96° 16.7' E	Fl.W. period 4s fl. 1.5s, ec. 2.5s	60 18	5	White iron tower; 52.	
26632 <i>F 1094</i>	--Upper Range, front.	16° 29.0' N 96° 18.0' E	Q.W.	30 9	5		
26636 <i>F 1094.1</i>	--Upper Range, rear, 366 meters 154° 30' from front.	16° 29.0' N 96° 17.4' E	Fl.W. period 4s	60 18	5		
26640 <i>F 1100.9</i>	-Thilawa Range, front.	16° 39.0' N 96° 16.0' E	Q.W.	27 8	5	White iron column; 15.	
26644 <i>F 1101</i>	--Common Rear Range, 256 meters 013° 45' from Thilawa front.	16° 39.2' N 96° 15.8' E	Fl.W. period 4s fl. 1.5s, ec. 2.5s	67 20	5	White framework tower; 53.	
26648 <i>F 1101.2</i>	-Front about 210 meters from common rear, in line 110°.	16° 39.2' N 96° 15.7' E	Q.W.	26 8	5	White iron column; 25.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
BURMA-ANDAMAN SEA							
26652 <i>F 1103</i>	-Falan Range, front.	16° 39.0' N 96° 16.0' E	Fl.W. period 2s fl. 0.3s, ec. 1.7s	25 8	5	White framework tower, square daymark; 25.	
26656 <i>F 1103.1</i>	--Rear, 395 meters 136° 30' from front.	16° 38.6' N 96° 15.7' E	Fl.W. period 4s fl. 1.5s, ec. 2.5s	53 16	5	White framework tower, square daymark; 53.	
26660 <i>F 1106</i>	-Thetkaikwin (D'Silva) Range, front.	16° 40.0' N 96° 14.0' E	Q.W.	30 9	5	White iron framework tower, square daymark; 28.	
26664 <i>F 1106.1</i>	--Rear, 306 meters 177° from front.	16° 39.7' N 96° 13.4' E	Fl.W. period 4s fl. 1.5s, ec. 2.5s	50 15	5	White iron framework tower, square daymark; 47.	
26680	<i>SANDA LIGHTSHIP.</i>	15° 32.0' N 95° 38.0' E	Fl.W. period 6s	40 12	11	Red hull, "Sanda" on sides, length 70 feet.	Q.W. riding light. <i>Reported to lie 7 miles NE (1978).</i> Reported missing (1979). Radar reflector.
26684 <i>F 1072</i>	<i>THURIYA LIGHTFLOAT.</i>	15° 20.3' N 95° 10.6' E	Fl.W. period 7s	30 9	8	Black hull.	Riding light F.W. Radar reflector.
26688 <i>F 1068</i>	Alguda Reef.	15° 42.2' N 94° 12.0' E	Fl.W. period 10s	144 44	18	Granite tower, black and white bands; 160.	Obscured 175°-260°.
26692 <i>F 1070</i>	Thamihla Kyun (Diamond Island) Bassein River entrance.	15° 52.0' N 94° 16.8' E	Fl.W. period 4s	80 24	12	Framework tower, red and white bands; 40.	Visible 135°-027°.
26704 <i>F 1067</i>	Gorangyi Kyun.	16° 32.0' N 94° 15.0' E	Fl.W. period 15s	217 66	12	Black wooden framework structure, white bands.	Visible 010°-180°. Radar reflector.
BURMA-BAY OF BENGAL							
26708 <i>F 1065</i>	Lontha (Andrew Bay).	18° 22.0' N 94° 20.0' E	Fl.W. period 8s fl. 0.5s, ec. 7.5s	136 41	12	Black and white checkered structure; 36.	Visible 016°-113°, and 144°-160°.
26712 <i>F 1066</i>	Nantha Kyun (Foul Island), W. side.	18° 04.0' N 94° 05.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	561 171	12	Black and white checkered structure; 10.	
26716 <i>F 1064.5</i>	Obntapin Kyun (Unguan Island), S. summit of island.	18° 26.0' N 93° 55.0' E	Fl.W. period 12s fl. 1s, ec. 11s	145 44	14	Black and white checkered structure; 16.	
26720 <i>F 1064.3</i>	Ohnchaung.	18° 51.0' N 93° 45.0' E	Fl.W. period 5s	24 7	8	Gray four legged iron framework tower; 24.	
26724 <i>F 1064</i>	Mun Aug (Beacon Island), E. summit.	18° 56.0' N 93° 27.0' E	Fl.W. period 5s fl. 0.3s, ec. 4.7s	122 37	14	Red tower, white top; 119.	Visible 334°-273°.
26728 <i>F 1063</i>	Thanta (North Terrible Rock).	19° 26.0' N 93° 18.0' E	Fl.W. period 8s fl. 0.8s, ec. 7.2s	54 16	13	4-legged iron framework tower, black and white bands; 45.	
26732 <i>F 1062</i>	Paungnetkyi (Laws Island), W. side.	19° 26.0' N 93° 36.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	109 33	12	Red trestle, white top; 40.	Visible 084°-110°.
26736 <i>F 1060.5</i>	Wetkyun (James I).	19° 32.0' N 93° 32.0' E	Fl.W. period 5s	24 7	8	4-legged iron gray framework tower; 24.	
SITTE (AKYAB) HARBOR:							
26744 <i>F 1059</i>	-Sittwe.	20° 06.8' N 92° 53.8' E	Fl.W. period 10s fl. 1s, ec. 9s	90 27	15	White square framework structure; 88.	Visible 293°-096°.
26748 <i>F 1058</i>	Oyster Island.	20° 11.8' N 92° 32.2' E	Oc.W.R. period 15s lt. 10s, ec. 5s	130 40	17	Iron tower, black and white bands; 141.	R. 310°-325°, W.-310°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
BANGLADESH							
26752 <i>F 1057</i>	St. Martins Island.	20° 38.0' N 92° 19.0' E	Fl.(2)W. period 30s	128	20	Framework tower, red and white rectangular daymark.	Racon.
26756 <i>F 1056.4</i>	Cox's Bazar.	21° 26.0' N 91° 58.4' E	Fl.W. period 15s fl. 0.7s, ec. 14.3s	177	24	Orange dome on lantern; 23.	Radiobeacon.
	RACON		C(- • - •)				(3 & 10cm)
26760 <i>F 1054</i>	Kutubdia Island.	21° 51.9' N 91° 50.5' E	Fl.(3)W. period 10s fl. 0.2s, ec. 1.4s fl. 0.2s, ec. 1.4s fl. 0.2s, ec. 6.6s	128	20	Framework tower, red and white rectangular daymark.	Radiobeacon.
	RACON		K(- • -)		18		(3 & 10cm)
CHITTAGONG, KARNAPHULI RIVER:							
26764 <i>F 1048</i>	-Normans Point.	22° 10.7' N 91° 49.4' E	Fl.W. period 10s fl. 0.5s, ec. 9.5s	39	17	Red and white framework tower.	Visible 019° -130° . Storm signals.
	-RACON		T(-)				
26772 <i>F 1050</i>	-AVIATION LIGHT.	22° 15.0' N 91° 50.0' E	Al.FI.W.G. period 10s W. fl. 1s, ec. 4s G. fl. 1s, ec. 4s			Control tower.	Shown sunset 2200.
26776 <i>F 1050.4</i>	-Outer Bar Range, front.	22° 14.0' N 91° 49.0' E	F.G.	46	14	White circle.	
26780 <i>F 1050.41</i>	--Rear, 352 meters 037° 04' from front.	22° 14.0' N 91° 48.4' E	Oc.G. period 7s lt. 5s, ec. 2s	66	20	White diamond.	
26784 <i>F 1051</i>	-Inner Bar Range, front.	22° 15.0' N 91° 50.0' E	F.R.	62	19	Pole.	
26788 <i>F 1051.1</i>	--Rear, 390 meters 054° 10' from front.	22° 14.9' N 91° 50.3' E	Oc.R. period 3s	118	36	Column.	
26792 <i>F 1049</i>	-Patenga.	22° 13.6' N 91° 48.0' E	Fl.R. period 10s	66	20	13 White metal framework tower, black bands; 79.	
26804 <i>F 1052</i>	-Gupta Crossing Range, front.	22° 16.0' N 91° 51.0' E	Q.W.	30	9	Cross and circle.	
26808 <i>F 1052.1</i>	--Rear, 150 meters 024° 43' from front.	22° 15.9' N 91° 50.4' E	Fl.W. period 3s	59	18	White cone, point up.	
26812 <i>F 1053</i>	-Active Spit Range, front.	22° 15.0' N 91° 51.0' E	Fl.G. period 3s	36	11	Pole.	
26816 <i>F 1053.1</i>	--Rear, 140 meters 155° 45' from front.	22° 15.4' N 91° 50.3' E	Fl.G. period 3s	59	18	Pole.	
26820 <i>F 1053.4</i>	-Gupta Crossing Range, front.	22° 15.7' N 91° 50.6' E	Fl.W. period 3s	33	10	Mast.	
26824 <i>F 1053.41</i>	--Rear, 190 meters 114° 20' from front.	22° 15.7' N 91° 50.5' E	Fl.R. period 3s	66	20	Mast.	
26826 <i>F 1053.8</i>	-Custom mark, front.	22° 19.4' N 91° 49.8' E	F.R.	69	21		
26826.1 <i>F 1053.81</i>	--Rear, 750 meters 051° 42' from front.	22° 19.6' N 91° 49.8' E	F.R.	92	28	Dome.	
PURSUR RIVER:							
26828	-Mongla Fairway Buoy.	21° 26.9' N 89° 34.4' E	L.FI.W. period 10s			SAFE WATER RW, pillar, topmark.	Radar reflector.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
BANGLADESH							
26836 F 1045	-Jefford Point.	21° 44.0' N 89° 33.0' E	Fl.(2)W. period 20s	118 36	16	Gray metal framework tower, triangular daymark.	
26838	-Buoy B18.	21° 46.6' N 89° 30.0' E	Fl.R. period 10s			PORT (A) R, can, topmark.	
26840 F 1045.5	-Hiran Point.	21° 48.0' N 89° 28.0' E	Fl.(2)W. period 20s	115 35	16	Gray metal framework tower.	<i>Experimental.</i>
INDIA-BAY OF BENGAL							
HUGLI RIVER:							
26842 F 1018	-EASTERN CHANNEL LIGHTSHIP.	21° 04.2' N 88° 11.1' E	Fl.W. period 15s		12	Red hull.	
	-RACON		O(---)				
26846	-INTERMEDIATE LIGHTSHIP.	21° 10.7' N 88° 12.7' E	Fl.(2)W. period 20s				Radar reflector.
26847 F 1022	-TALENT LIGHTSHIP.	21° 17.5' N 88° 11.2' E	Fl.(2)W. period 10s				
26852 F 1024	-LOWER GASPER LIGHTSHIP.	21° 22.1' N 88° 10.0' E	Fl.W. period 8s			Red hull.	Riding light Q.W.
26860 F 1028	-Sagar Island.	21° 39.4' N 88° 02.9' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	84 26	17	Round tower, red and white bands; 80.	Visible 315° -180° .
26861 F 1029	-Dariapur.	21° 47.4' N 87° 51.9' E	Fl.(2)W. period 20s fl. 1.4s, ec. 1.9s fl. 1.4s, ec. 15.3s	98 30	19	White round concrete tower, black bands; 85.	
	-RACON		G(---•)				
26862 F 1031.45	-Sandia Column.	21° 58.8' N 88° 02.0' E	Fl.W. period 10s	56 17	6	Round masonry tower.	
26863 F 1031.46	-Inner Column.	21° 58.3' N 88° 01.4' E	Fl.W. period 1.5s	59 18	6	Round masonry tower.	
26865 F 1032.7	-Haldia channel, S.	22° 00.0' N 88° 02.8' E	Fl.W. period 10s			Framework tower.	
26868 F 1034	-Nayachara, outer column.	22° 01.3' N 88° 08.4' E	Fl.W. period 10s	45 14			
26869 F 1034.5	--Inner column.	22° 01.1' N 88° 08.0' E	Fl.W. period 1.5s	60 18			
26892 F 1040	-Diamond Harbor, near customhouse.	22° 11.0' N 88° 11.0' E	Fl.W.R. period 2s				W. shore-115° , R. shore.
26900 F 1006	False Point.	20° 20.0' N 86° 44.0' E	Fl.(2)W. period 20s fl. 0.2s, ec. 4.8s fl. 0.2s, ec. 14.8s	125 38	27	White round tower, red bands; 125.	Visible 205° -045° .
26902 F 1005.98	Mahanadi River entrance, S.	20° 17.4' N 86° 43.1' E	Fl.R.	33 10		Beacon.	
PARADIP:							
26908 F 1005.2	-S. breakwater, head.	20° 15.5' N 86° 40.8' E	Fl.R. period 5s	33 10	7	Red metal column, white bands; 26.	
26912 F 1005.4	-N. breakwater, head.	20° 15.8' N 86° 40.8' E	Fl.G. period 5s	26 8	7	Green metal column, white bands; 26.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDIA-BAY OF BENGAL							
26916 F 1005.6	-Entrance Range, front.	20° 16.1' N 86° 40.1' E	Fl.W. period 2s	98 30	6	Black and white bands.	Channel limits marked by lights in line.
26918 F 1005.605	--Middle, 740 meters 300° from front.	20° 16.3' N 86° 36.7' E	L.Fl.W. period 5s	148 45	8	Black and white bands.	
26920 F 1005.61	--Rear, 1.026 miles 300° from front.	20° 16.6' N 86° 39.0' E	Iso.W. period 10s	197 60	12	Black and white bands.	
26921 F 1005.611	-Starboard Range, front.	20° 16.1' N 86° 40.2' E	Fl.G. period 2s	66 20	6	Green and white bands.	Marks starboard side of the channel.
26921.5 F 1005.612	--Rear, 345 meters 300° from front.	20° 16.2' N 86° 40.0' E	L.Fl.G. period 10s	98 30	6	Green and white bands.	
26922 F 1005.613	-Port Range, front.	20° 16.0' N 86° 40.2' E	Fl.R. period 2s	66 20	6	Red and white bands.	Marks port side of channel.
26922.5 F 1005.614	--Rear, 395 meters 300° from front.	20° 16.0' N 86° 40.0' E	L.Fl.R. period 10s	98 30	6	Red and white bands.	
26924 F 1005.8	-Inner harbor, turning circle Range front.	20° 16.6' N 86° 40.1' E	Q.W.	92 28	8		Channel limits marked by lights in line, 2 F.G. on NE. side, Fl.R. 3s and F.R. on SW. side.
26928 F 1005.81	--Rear, 300 meters 332° from front.	20° 16.8' N 86° 40.0' E	Fl.W. period 4s	108 33	8		
26932 F 1005.9	-W. side of turning circle.	20° 16.2' N 86° 40.1' E	F.R.	39 12	6		
26936 F 1005.92	-W. side of turning circle, inner light.	20° 16.2' N 86° 40.0' E	F.R.	46 14	6		
26937 F 1004.4	Paradip.	20° 15.3' N 86° 39.4' E	Fl.(3)W. period 30s	131 40	28	Round concrete tower.	Radiobeacon.
	RACON		K(- • -)				
26940 F 1003	Chandrabhaga.	19° 52.0' N 86° 07.0' E	Fl.W. period 10s fl. 0.3s, ec. 9.7s	122 37	26	White round masonry tower, red bands; 98.	
26944 F 1002	Puri.	19° 47.4' N 85° 48.5' E	Fl.(3)W. period 20s	95 29		Black tower, white bands; 82.	
26948 F 0988	Gopalpur.	19° 15.3' N 84° 54.5' E	Fl.W. period 5s fl. 0.2s, ec. 4.8s	148 45	26	White round masonry tower, red bands; 105.	Radiobeacon.
	RACON		S(• • •)				
26951 F 0985	Baruva.	18° 52.1' N 84° 35.1' E	Fl.W. period 15s	98 30	20	White tower, black bands.	
26956 F 0982	Kalingapatnam.	18° 20.3' N 84° 07.4' E	Fl.(3)W. period 15s	115 35	25	Hexagonal masonry tower; 98.	
26960 F 0980	Santapilli.	18° 03.9' N 83° 38.4' E	Fl.(2)W. period 10s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 7.3s	138 42	23	White round masonry tower, black bands; 72.	
26964 F 0978	Bhimunipatnam, near port office.	17° 53.7' N 83° 27.1' E	Fl.W. period 9s	35 11	8	White round masonry tower; 36.	Storm signals.
	VISHAKHAPATNAM:						
26972 F 0970	-Dolphins Nose.	17° 40.5' N 83° 17.7' E	Fl.W. period 10s fl. 0.3s, ec. 9.7s	567 173	32	White square masonry tower, black bands; 48.	Signal station.
	-RACON		O(- - -)				
26976 F 0971	-AVIATION LIGHT.	17° 43.3' N 83° 13.5' E	Al.W.G. period 4s	39 12	W. 27 G. 23	Control tower.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDIA-BAY OF BENGAL							
26980 <i>F 0974.4</i>	-Sector.	17° 41.1' N 83° 17.7' E	F.W.R.G. , Al.Fl.W.G.	95 29	7		F.R. 248° 42' -250° 42', F.W.- 252° 42', Al.Fl.W.G.- 259° 42', F.G.-267° 42', F.W.-271° 42', F.R.- 273° 42'.
26988 <i>F 0973.12</i>	-Fishing Harbour, front.	17° 41.6' N 83° 18.3' E	Fl.R. period 1.5s	43 13			
26992 <i>F 0973.14</i>	--Rear, 129 meters 234° 30' from front.	17° 41.7' N 83° 18.1' E	Oc.R. period 3s	56 17			
26996 <i>F 0973.02</i>	-N. breakwater, S. head.	17° 41.9' N 83° 18.3' E	Oc.W.R.G. period 3s	29 9	6		W. 265° 30' -099° 30', R.- 237° 30', G.-265° 30'.
27000 <i>F 0973.04</i>	-E. breakwater, N. head.	17° 42.0' N 83° 18.0' E	Fl.(2)R. period 10s	29 9	3		
27004 <i>F 0973.06</i>	--S. head.	17° 41.0' N 83° 18.0' E	Fl.(3)G. period 10s	34 10	5		
27008 <i>F 0973.08</i>	-S. breakwater, E. head.	17° 41.1' N 83° 18.7' E	Fl.(2)R. period 5s	34 10	5		F.R. lights mark oil berth ends 620 meters and 1000 meters WSW.
27010 <i>F 0969.2</i>	Gangavaram Entrance Range, front.	17° 37.5' N 83° 13.8' E	Q.W.		12	White square framework tower, red bands; 46.	
27010.5 <i>F 0969.21</i>	-Rear, 550 meters 267° from front.	17° 37.5' N 83° 13.5' E	Q.W.		12	White square framework tower, red bands; 95.	
27012 <i>F 0968</i>	Pudimadaka.	17° 29.5' N 83° 00.1' E	Fl.(2)W. period 15s	115 35	27	White square masonry tower, red bands; 85.	
27016 <i>F 0966</i>	Pentakota.	17° 18.0' N 82° 37.0' E	Fl.W. period 15s fl. 1.5s, ec. 13.5s	59 18	21	White square masonry tower, black bands; 59.	
27020 <i>F 0964</i>	Vakalapudi.	17° 00.9' N 82° 17.0' E	Fl.(3)W. period 15s	148 45	22	White round masonry tower, red bands; 148.	
	RACON		G(- - •)				
	KAKINADA BAY:						
27024 <i>F 0960</i>	-Sand Spit.	16° 59.4' N 82° 19.6' E	Fl.W. period 15s	23 7			
27026 <i>F 0962.5</i>	-W. jetty.	16° 59.0' N 82° 17.1' E	Fl.R.G. period 5s	20 6	4		
27027 <i>F 0962.4</i>	-Terminal, N. point.	16° 58.6' N 82° 17.0' E	Fl.Y.	7 2			
27028 <i>F 0962</i>	-Canal, N. training wall.	16° 57.1' N 82° 16.6' E	Fl.(2)W. period 10s	26 8	9	White metal framework tower, black bands; 7.	
27032 <i>F 0958</i>	Sacramento.	16° 35.0' N 82° 17.0' E	Fl.W. period 5s fl. 0.2s, ec. 4.8s	140 43	24	Masonry tower; 148.	Visible 225° -045°.
27036	<i>Sacramento Shoal Lighted Buoy.</i>	16° 32.0' N 82° 20.0' E	Fl.W. period 4s			Red buoy.	
27040 <i>F 0957</i>	Narasapur.	16° 19.0' N 81° 43.6' E	Fl.(2)W. period 15s fl. 0.4s, ec. 3.4s fl. 0.4s, ec. 10.8s	95 29	27	White square masonry tower, red bands; 85.	
	RACON		B(- • • •)				
27044 <i>F 0955</i>	Machilipatnam.	16° 15.0' N 81° 14.0' E	Fl.(3)W. period 20s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 14.5s	161 49	26	White round concrete tower, black bands; 148.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDIA-BAY OF BENGAL							
27052 F 0953	Nagayalanka.	15° 47.0' N 80° 59.0' E	Fl.W. period 15s fl. 1.2s, ec. 13.8s	112 34	24	White square masonry tower, red bands; 121.	
27054 F 0952.8	Nizampatam.	15° 53.0' N 80° 38.3' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	118 36	23	White round tower, red bands; 102.	
27055 F 0952.9	Vedarevu.	15° 47.7' N 80° 24.6' E	Fl.(2)W. period 15s fl. 0.6s, ec. 1.9s fl. 0.6s, ec. 11.9s	112 34	25	White round tower, black bands; 98.	
27056 F 0952.5	Ramayapatnam.	15° 02.5' N 80° 03.0' E	Fl.W. period 10s	115 35	26	White hexagonal concrete tower, red bands; 121.	
	RACON		K(- • -)				
27057 F 0952.3	Iskapalle.	14° 44.0' N 80° 06.0' E	Fl.(2)W. period 10s	112 34	15	White round concrete tower, red stripes; 98.	
27060 F 0952	Krishnapatnam.	14° 17.1' N 80° 08.3' E	Fl.(3)W. period 15s	112 34	18	White round masonry tower, black bands; 98.	
	RACON		C(- • - •)				
27064 F 0951	Armagon Shoal.	13° 54.0' N 80° 12.0' E	Fl.W. period 15s	112 34	26	White round concrete tower, red bands; 98.	
27068 F 0950	Pulicat.	13° 25.2' N 80° 19.7' E	Fl.W. period 5s fl. 0.2s, ec. 4.8s	174 53	26	White hexagonal concrete tower, black bands; 148.	
	RACON		B(- • • •)				
MADRAS HARBOR:							
27071 F 0947	Ennur, N. breakwater, head.	13° 15.3' N 80° 21.1' E	Fl.G. period 6s	36 11	8		
	RACON		K(- • -)				
27072 F 0936	-Madras.	13° 02.4' N 80° 16.7' E	Fl.(2)W. period 10s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 7.2s	187 57	28	White triangular tower, red bands; 151.	
	-RACON		K(- • -)				
27076 F 0940	-N. arm, outer head.	13° 06.1' N 80° 18.3' E	Fl.R. period 8s	33 10	6	White round masonry tower, red stripes; 16.	
27078 F 0941	-E. breakwater.	13° 06.3' N 80° 18.2' E	Fl.(3)G. period 8s				
27080 F 0942	-Dufferiu, outer arm, head.	13° 06.4' N 80° 18.6' E	Fl.(2)R. period 6s	43 13	14		
27084 F 0944	-W. side of entrance, breakwater, head.	13° 05.9' N 80° 18.1' E	Fl.G. period 2s	25 8	1	Square concrete column.	2 F.R. on radio tower 1.26 km. W., Fl.R. and 3 F.R. on T.V. tower 4.12 km. SW.
27096 F 0943	-E. side of entrance.	13° 05.9' N 80° 18.2' E	Fl.R. period 2s	25 8	1	Square concrete column.	
27098 F 0945.5	-Pier, head.	13° 05.8' N 80° 18.0' E	F.R.				
27100 F 0935	AVIATION LIGHT 17.4 kilometers 229° from Madras Light.	12° 59.0' N 80° 10.0' E	Al.W.G. period 7.5s		W. 20 G. 15	Control tower.	Occasional.
27104 F 0934	AVIATION LIGHT 18.9 kilometers 226° from Madras Light.	12° 58.0' N 80° 10.0' E	Fl.R. period 1.9s	555 169			

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDIA-BAY OF BENGAL							
27108 F 0932	Mahabalipuram.	12° 36.8' N 80° 11.6' E	Fl.W. period 10s	137 42	30	Round masonry tower; 84.	
27112 F 0926	Pondicherry.	11° 55.1' N 79° 49.9' E	Fl.(2)W. period 15s	157 48	26	White hexagonal tower, black bands; 151.	
	RACON		D(- • •)				
27120 F 0920	Cuddalore.	11° 42.3' N 79° 46.6' E	Fl.W. period 5s	59 18	12	White round concrete tower.	
27126 F 0919.1	-Marine terminal.	11° 38.4' N 79° 46.3' E	Fl.(3)W. period 10s				
	-RACON		C(- • - •)				
27132 F 0919	Porto Novo.	11° 30.6' N 79° 46.1' E	Fl.W. period 15s	118 36	26	White round concrete tower, red bands; 128.	
	RACON		B(- • • •)				
27134 F 0918	Pumpukar.	11° 08.6' N 79° 51.3' E	Fl.(4)W. period 15s	108 33	20	Tower; 98.	
27136 F 0916	Karikal, 201 meters from mouth of Arselar.	10° 55.0' N 79° 51.1' E	Fl.(2)W. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	59 18	13	White round concrete tower; 56.	
27138 F 0915.1	-Chemplast pier, N. head.	10° 50.9' N 79° 51.8' E	Fl.G. period 4s	10 3			
27138.1 F 0915	--S. head.	10° 50.9' N 79° 51.8' E	Fl.R. period 4s	10 3			
27139 F 0914.531	Karaikal Port, N. breakwater.	10° 50.5' N 79° 51.4' E	Fl.(2)G. period 5s	30 9	7	Concrete structure; 10.	
27139.1 F 0914.53	-S. breakwater.	10° 50.2' N 79° 51.4' E	Fl.(2)R. period 5s	30 9	7	Concrete structure; 10.	
27140 F 0914	Nagappattinam.	10° 45.8' N 79° 50.9' E	Fl.(2)W. period 20s fl. 0.5s, ec. 2s fl. 0.5s, ec. 17s	158 48	26	White round masonry tower, black bands; 163.	Radiobeacon.
	RACON		G(- - •)				
27144 F 0910	Calimere Point.	10° 17.5' N 79° 52.3' E	Fl.(3)W. period 10s fl. 0.3s, ec. 1.5s fl. 0.3s, ec. 1.5s fl. 0.3s, ec. 6.1s	44 13	15	White round masonry tower; 52.	
	RACON		K(- • -)				
27145 F 0902	Kodikkarai.	10° 16.8' N 79° 49.5' E	Fl.W. period 10s	148 45	20	White round masonry tower, red bands; 147.	
27148 F 0901.9	Mallipattinam.	10° 16.3' N 79° 18.9' E	Fl.W. period 5s	157 48	22	Tower; 148.	
27150 F 0901.7	Ammappattinam.	10° 00.6' N 79° 13.7' E	Fl.(2)W. period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 12s	161 49	19	Round tower, black and white bands; 148.	
27152 F 0901	-Mandapam Range front.	9° 16.5' N 79° 08.9' E	Fr.R.	39 12		Beacon.	
27156 F 0901.1	--Rear, 350 meters 338° from front.	9° 17.0' N 79° 09.0' E	Fr.R.	53 16		Beacon.	
27160 F 0904	-N. approach to Mandapam Range, front.	9° 16.9' N 79° 07.7' E	Q.W.				Occasional.
27164 F 0904.1	--Rear, 124 meters 206° from front.	9° 16.9' N 79° 09.7' E	Q.W.				Occasional.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDIA-BAY OF BENGAL							
27167 F 0906	-Rameswaram.	9° 19.1' N 79° 19.8' E	Fl.(2)W. period 20s fl. 0.8s, ec. 2s fl. 0.8s, ec. 16.4s	54 16	13	White square concrete tower, red bands; 49.	
27168 F 0900	-Pamban Channel.	9° 17.2' N 79° 13.3' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	94 29	9	White masonry tower, black bands; 66.	Storm signals.
27172 F 0738	Kilakkarai.	9° 14.0' N 78° 47.0' E	Fl.W. period 15s	115 35	16	White hexagonal concrete tower, red bands; 98.	
27176 F 0734	Pandiyan Tivu.	8° 47.2' N 78° 11.8' E	Fl.W. period 10s	157 48	28	White round concrete tower, black stripes; 75.	Storm signals. Signal station.
	RACON		T(-)				
27180 F 0736	--Tuticorin Range, front.	8° 48.0' N 78° 10.0' E	F.R.	21 6	8	Skeleton iron tower.	
27184 F 0736.1	---Rear, 259 meters 274° 30' from front.	8° 48.1' N 78° 09.5' E	F.R.	44 13		Iron framework structure.	
27188 F 0735.5	-N. breakwater, head.	8° 44.9' N 78° 13.7' E	Fl.W. period 5s	29 9	10		
27189 F 0735.6	--Spur.	8° 44.9' N 78° 13.6' E	Q.G.				
27189.1 F 0735.7	-E. breakwater, head.	8° 44.9' N 78° 13.5' E	Q.R.				
27192 F 0735	-Tuticorin Harbor Range, front.	8° 45.4' N 78° 13.1' E	Q.W.	66 20	8	Red and white framework tower.	
27196 F 0735.1	---Rear, 1.47 miles 311° 30' from front.	8° 46.0' N 78° 12.0' E	Oc.W. period 10s	194 59	12		
27200 F 0730	Manappad Point.	8° 22.4' N 78° 04.0' E	Fl.(2)W. period 10s	148 45	23	White round tower, red diagonal stripes.	Visible 115° -070° .
	RACON		G(- - •)				
SRI LANKA (CEYLON)							
27204 F 0876	Delft Island, NE. side.	9° 32.0' N 79° 43.0' E	F.W.	25 8	5	Iron beacon.	Fishing light.
27208 F 0875	Fort Hammenhiel.	9° 43.0' N 79° 51.0' E	Fl.R. period 5s	35 11	11		
27212 F 0874	Kovilan Point, NW. point of Karaitivu Island.	9° 46.0' N 79° 50.0' E	Fl.(2)W. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	100 30	11	White masonry tower; 97.	
27216 F 0877	Punkudutivu.	9° 34.0' N 79° 51.0' E	Fl.W. period 5s	35 11	11	Stone building.	
27220 F 0878	Jaffna, Jaffnapatam Channel.	9° 38.0' N 80° 02.0' E	Fl.(3)W. period 15s	20 6	13	White concrete tower.	
27228 F 0870	Point Pedro.	9° 51.0' N 80° 15.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	102 31	10	White masonry tower; 105.	Visible 090° -330° . A F.R. light of low power is shown from end of customhouse pier.
27232 F 0866	Mullaittivu, near mouth of Vattuvakalaru.	9° 17.0' N 80° 48.5' E	Fl.(2)W. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	67 20	10	Iron latticework obelisk; 65.	
27236 F 0864.2	Pulmoddai, pier.	8° 57.0' N 81° 00.0' E	Fl.R.		5		FW. shown N. and S. of pier, on shore.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SRI LANKA (CEYLON)							
TRINCOMALEE:							
27244 F 0852	-Round Island, summit.	8° 30.8' N 81° 13.5' E	Fl.(3)W.R. period 15s fl. 0.5s, ec. 0.7s fl. 0.5s, ec. 0.8s fl. 0.5s, ec. 12s	103 31	10	White round tower; 69.	R. 090° -165°, W.-170°, R.- 226°, W.-247°, R.-020°.
27248 F 0853	-Chapel Hill.	8° 32.9' N 81° 14.5' E	Fl.W. period 10s	364 111	10	White structure on building.	
27252 F 0862	-Back Bay, NW. corner of customhouse.	8° 35.0' N 81° 15.0' E	F.R.	27 8		Mast.	Only shown during SW. monsoon. F.R. lights are shown from beacon on head of jetty at No. 1 oiling berth and from the roof of the building about 500 yards south westward.
27254 F 0858	-Passenger Pier.	8° 34.0' N 81° 13.7' E	F.R.				Difficult to distinguish against floodlights.
27256 F 0857	-Pepperpot Pier.	8° 34.0' N 81° 14.0' E	F.G.				
27260 F 0846	Batticaloa.	7° 45.0' N 81° 41.0' E	Fl.W. period 3s	89 27	10	White tower; 93.	
27264 F 0844	Sangamankanda Point.	7° 01.0' N 81° 52.0' E	Fl.W. period 5s	25 8	10	White concrete hut.	
27268 F 0842	Little Basses Reef.	6° 24.5' N 81° 44.0' E	V.Q.(2)W. period 10s	110 34	27	White granite tower and cupola, black band, two galleries; 125.	
27272 F 0840	Great Basses Reef.	6° 11.1' N 81° 28.9' E	Fl.W. period 15s fl. 0.4s, ec. 14.6s	110 34	25	White granite tower, conical roof, 2 galleries 66 feet apart; 125.	
RACON			O(---)				
27276 F 0836	Dondra Head.	5° 55.2' N 80° 35.6' E	Fl.W. period 5s fl. 0.2s, ec. 4.8s	153 47	28	White octagonal tower; 160.	Obscured by Nilawelli Point when bearing less than 253°. Reserve light range 18M.
RACON			C(- • - •)	(3 & 10cm)			
27280 F 0834	Weligama Bay, on shore in front of Rest House.	5° 58.0' N 80° 25.0' E	F.R.	30 9	9	Gray concrete pillar.	Fishing light.
27282 F 0832	Koggala Lake.	5° 59.6' N 80° 20.2' E	2 F.R. (vert.)		12		
27284 F 0830	Point De Galle.	6° 01.5' N 80° 13.0' E	Fl.(2)W. period 15s fl. 0.3s, ec. 2.7s fl. 0.3s, ec. 11.7s	93 28	25	White round iron tower; 87.	Signal station (by day). F.R. range lights shown from head of No. 1 pier.
RACON			G(- - •)				
27288 F 0826	Barbery.	6° 28.0' N 79° 58.0' E	Fl.W. period 20s fl. 0.5s, ec. 19.5s	150 46	27	White round tower; 111.	
27292 F 0824	Ratmalana AVIATION LIGHT.	6° 49.0' N 79° 53.0' E	Al.Fl.W.G.	73 22		On control tower.	Occasional. Aero Radiobeacon 0.5 mile S.
27296 F 0820	Mount Lavinia, front.	6° 51.0' N 79° 52.0' E	F.R.	30 9		White concrete beacon; 20.	
27300 F 0820.1	-Rear, 55 meters 099° from front.	6° 50.6' N 79° 51.8' E	F.R.	35 11		Coconut tree.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SRI LANKA (CEYLON)							
COLUMBO HARBOR:							
27302	-Approach buoy 2.	6° 58.3' N 79° 50.1' E	Fl.(2+1)R. period 10s			PORT (A) RGR, pillar, topmark.	
	-RACON		B(- • • •)				
27304 F 0794	-SW. breakwater, head.	6° 57.3' N 79° 50.6' E	Oc.G. period 5s	56 17	13	Concrete tower; 61.	
27308 F 0798	-SW. breakwater, pilot station.	6° 57.2' N 79° 50.8' E	Q.G.	26 8	5	Metal column.	Visible 161° -015° .
27312 F 0796	-SW. breakwater, elbow near pilot station.	6° 57.2' N 79° 50.8' E	Fl.G. period 3s	50 15	5		Visible 155° -270° . Pilot signal station.
27316 F 0792	-S. end of island, breakwater.	6° 57.3' N 79° 50.8' E	Fl.R. period 3s	42 13	10	Round stone tower; 37.	
27320 F 0790	-N. end of island, breakwater.	6° 57.6' N 79° 51.1' E	Fl.G. period 3s	42 13	10	Round stone tower; 37.	
27324 F 0782	-NE. breakwater, head.	6° 57.7' N 79° 51.2' E	F.R.	44 13	10	Concrete tower; 33.	F.R. lights on flour mill 370 meters E.
27328 F 0806	-N. pier.	6° 57.5' N 79° 51.2' E	F.R.	7 2	1	Pedestal.	
27332 F 0780	-Colombo.	6° 56.0' N 79° 50.0' E	Fl.(3)W. period 10s	85 26	25	Round stone tower, black and white checkers; 49.	Visible 349° -189° .
27336 F 0784	-Fishery Harbor, mole, head.	6° 57.9' N 79° 51.6' E	F.R.		5	Metal column.	
27340 F 0804	-New customhouse.	6° 56.2' N 79° 50.7' E	F.G.	50 15	3	White mast.	
27344 F 0812	-Marine railway, guide jetty, head.	6° 56.4' N 79° 50.9' E	F.W.	17 5			
27348 F 0818	-Welikada, radio station.	6° 55.0' N 79° 53.0' E	2 F.R.	305 93	9	Metal framework towers; 269.	One on head of each mast. Shown 1800 to 0600.
27364 F 0884	Mannar Island, W. extremity.	9° 06.0' N 79° 44.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	55 17	10	White concrete tower; 64.	Visible 090° -270° .
27368 F 0886	Talaimannar, N. pier, outer head.	9° 07.0' N 79° 44.0' E	Oc.W. period 10s lt. 7s, ec. 3s	25 8	5	Iron column; 20.	Shown only when pier is in use.

INDIA-WEST COAST

27372 F 0764.4	Raatushi.	5° 38.9' N 73° 17.6' E	Fl.(2)W. period 20s	50 15	10	Gray framework tower, black rectangular daymark, 39.	
27376 F 0764	Wa-Faru.	5° 39.0' N 72° 49.0' E	Fl.W. period 10s	50 15	10	Gray framework tower.	
27380 F 0764.2	Bodutaru.	5° 32.0' N 72° 47.0' E	Fl.(2)W. period 10s	50 15	10	Gray framework tower.	
27384 F 0764.6	Kanifushi.	5° 22.0' N 73° 19.0' E	Fl.(2)W. period 10s	50 15	10	Gray framework tower.	
27388 F 0764.8	Veligili.	5° 05.0' N 72° 49.0' E	Fl.(2)W. period 20s	50 15	10	Gray framework tower.	
27392 F 0764.85	Karidu.	4° 59.0' N 73° 27.0' E	Fl.W. period 5s	50 15	10	Gray framework tower.	
27394 F 0762.9	Turakuna.	7° 06.5' N 72° 53.1' E	Fl.W. period 5s	49 15	10		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDIA-WEST COAST							
27395 F 0763	Digufuri Reef.	6° 55.2' N 72° 56.2' E	Fl.(2)W. period 20s		10		
27396 F 0763.15	-Warifuri, No. 16.	6° 56.3' N 73° 08.2' E	Fl.W. period 6s	16 5	7	Gray framework tower; 16.	
27400 F 0763.2	-Tiladummati, No. 13.	6° 36.0' N 72° 51.0' E	Fl.W. period 6s	16 5	7	Gray framework tower on concrete base.	
27402 F 0763.4	Makunudu Atoll.	6° 24.9' N 72° 42.6' E	Fl.W. period 10s	16 5	10		
27404 F 0763.6	-Miladummadulu, No. 12.	6° 11.0' N 72° 58.0' E	Fl.W. period 6s	16 5	7		
27406 F 0763.8	Alifuri.	5° 57.5' N 72° 57.1' E	Fl.W. period 5s		10		
MALDIVE ISLANDS:							
27408 F 0764.9	-Male Island, No. 1.	4° 35.3' N 73° 29.5' E	Fl.Y. period 6s	16 5	7	Gray framework tower on concrete base.	
27411 F 0765.1	-Hulule, S. breakwater, N. head.	4° 11.4' N 73° 31.5' E	Fl.G. period 6s				R. lights on radio masts 300 meters E. Al.Fl.W.G. 6s on control tower 500 meters ESE.
27411.1 F 0765.11	--Middle.	4° 11.3' N 73° 31.5' E	Fl.G. period 4s		3	STARBOARD (A) G, beacon.	
27411.2 F 0765.13	Funadhoo.	4° 11.1' N 73° 31.2' E	Fl.R. period 4s		3	PORT (A) R, beacon.	
27412 F 0765	-Male Island, each side of 4 entrances through breakwater.	4° 10.7' N 73° 31.0' E	Fl.R.				Fl.R. and Fl.G. mark either side of entrances.
27412.1 F 0765.12	Airport, S. end.	4° 10.5' N 73° 31.7' E	Fl.G. period 4s		3	STARBOARD (A) G, beacon.	
27414 F 0765.2	-Ari Atoll, Gongehe.	4° 12.8' N 72° 45.3' E	Fl.W. period 5s	49 15	10		
27415 F 0765.4	--Mandu.	3° 41.5' N 72° 42.7' E	Fl.(2)W. period 10s	49 15	10		
27416 F 0765.5	-Felidhu.	3° 40.8' N 73° 25.2' E	Fl.(2)W. period 10s	50 15	10	Gray framework tower.	
27420 F 0765.6	-Felidu, No. 2.	3° 31.0' N 73° 17.0' E	Fl.W. period 6s	16 5	7		
27424 F 0756.65	-Foteo.	3° 27.6' N 73° 45.8' E	Fl.(2)W. period 10s	50 15	10	Gray framework tower.	
27428 F 0765.8	-Furana.	3° 16.8' N 72° 59.6' E	Fl.W. period 6s	15 5	7	Gray framework tower.	
27432 F 0766	-Maavaru.	3° 05.1' N 72° 51.3' E	Fl.(2)W. period 20s	50 15	10	Gray framework tower.	
27436 F 0766.6	-Raimandu.	3° 05.3' N 73° 38.5' E	Fl.W. period 10s	50 15	10	Gray framework tower.	
27440 F 0766.2	-Meedhu.	3° 00.1' N 73° 00.5' E	Fl.W. period 6s	15 5	7	Gray framework tower.	
27444 F 0766.65	-Delufuri.	2° 45.7' N 73° 25.3' E	Fl.(2)W. period 10s	50 15	10	Gray framework tower.	
27448 F 0766.4	-Kudahavadhoo.	2° 40.5' N 72° 52.2' E	Fl.(2)W. period 10s	50 15	10	Gray framework tower.	
27452 F 0766.8	-Wiiifuri.	2° 30.5' N 73° 18.4' E	Fl.W. period 5s	50 15	10	Gray framework tower.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDIA-WEST COAST							
27456 F 0767	-Guradu.	2° 19.3' N 73° 19.2' E	Fl.W. period 6s	15 5	7	Gray framework tower.	
27460 F 0767.2	-Waduni.	2° 01.1' N 73° 21.4' E	Fl.W. period 6s	16 5	7	Gray framework tower.	
27464 F 0767.05	-Isdu.	2° 07.6' N 73° 35.4' E	Fl.(2)W. period 10s	49 15	10	Gray framework tower.	
27466 F 0767.6	-Suvadiva Atoll, Kudalafari.	0° 53.8' N 73° 20.9' E	Fl.W. period 5s	49 15	10		
27467 K 0813.2	-Addu Atoll, Bushy Islet.	0° 36.7' S 73° 08.9' E	Fl.(2)W. period 10s	16 5	7	Framework tower, concrete base.	
27468 F 0758	Minicoy Island.	8° 16.1' N 73° 01.9' E	Fl.W. period 15s	153 47	26	White round masonry tower; 157.	Obscured by foliage: 223°-226° within 6 miles. 238°-246° within 4 miles. 270°-273° within 2 miles. Storm signals.
	RACON		G(— — •) period 93s		18		Azimuth coverage 192°-150°.
27470 F 0758.1	-E. side.	8° 17.5' N 73° 04.0' E	Fl.(2)W. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	72 22	10	White masonry tower, blue bands; 72.	
27472 F 0724	Muttum Point.	8° 07.3' N 77° 19.2' E	Fl.W. period 5s fl. 0.2s, ec. 4.8s	141 43	23	Column, black and white bands; 72.	Visible 285°-115°.
	RACON		M(— —)				
27476 F 0720	Kolachel, base of flagstaff.	8° 10.0' N 77° 15.0' E	F.R.	59 18	7	White platform.	Visible 286°-107°. Occasional.
27480 F 0722	-663 meters 094° from flagstaff.	8° 10.3' N 77° 10.5' E	F.W.	30 9	5	Wooden platform on white masonry pillar, black bands; 17.	Not shown during SW. monsoon season from May 15 to Sept. 14.
27484 F 0726	Cape Comorin.	8° 05.0' N 77° 33.0' E	Fl.(2)W. period 20s fl. 0.7s, ec. 3.3s fl. 0.7s, ec. 15.3s	207 63	29	White square masonry tower, red bands; 98.	
	RACON		C(— • — •)				
27488 F 0727	-Kanniya Kumari.	8° 05.2' N 77° 33.1' E	F.W.	162 49		Concrete tower; 33.	
27492 F 0718	Vilinjam.	8° 23.0' N 76° 59.0' E	Fl.W. period 15s fl. 0.6s, ec. 14.4s	186 57	31	White round masonry tower, red bands; 118.	
	RACON		O(— — —)				
27496 F 0717	Trivandrum AVIATION LIGHT.	8° 28.8' N 76° 55.2' E	Al.W.G. period 4s	50 15	20	Control tower.	F.R. lights on radio masts 4.7 miles ENE. and 3.8 miles NNW. Occasional.
27502 F 0715	Anjengo.	8° 40.5' N 76° 45.5' E	Fl.(2)W. period 20s	125 38	19	White round concrete tower, black bands; 118.	
27504 F 0712	Quilan.	8° 52.6' N 76° 34.0' E	Fl.(3)W. period 15s fl. 0.1s, ec. 3.7s fl. 0.1s, ec. 3.7s fl. 0.1s, ec. 7.3s	138 42	18	White round masonry tower, red diagonal stripes; 135.	
27512 F 0710	Kovilthottam.	9° 00.0' N 76° 32.0' E	Fl.W. period 5s	64 20	14	White square masonry tower, black band; 50.	Signal station close northeastward.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDIA-WEST COAST							
27592 F 0754.2	-Kadmat Island.	11° 14.9' N 72° 46.9' E	Fl.(4)W. period 20s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 15s	112 34	8	White framework tower; 98.	
	-RACON		G(- - •)				
27596 F 0754.4	-Amini Island.	11° 06.7' N 72° 43.2' E	Fl.W. period 15s	108 33	11	Black metal framework tower, white bands; 98.	
27598 F 0754.6	Thinnakara Islet.	10° 56.6' N 72° 19.0' E	Fl.W. period 5s	39 12	9	Beacon.	
27600 F 0754.7	-Agatti Island, N. end.	10° 52.5' N 72° 12.3' E	Fl.(3)W. period 30s fl. 1s, ec. 3s fl. 1s, ec. 3s fl. 1s, ec. 21s	115 35	10	White framework tower; 98.	
	-RACON		B(- • • •)				
27604 F 0756	Suheli Par , Cheriyaakara Islet.	10° 02.4' N 72° 17.0' E	Fl.(2)W. period 20s	118 36	19	White metal column, red band; 121.	Obscured by vegetation 199° - 207° .
	RACON		O(- - -) period 95s		18		Azimuth coverage 285° -250° .
27608 F 0755.6	-Valiyakara Islet.	10° 08.2' N 72° 19.5' E	Fl.W. period 15s	43 13	6	White wooden framework tower; 39.	Obscured by vegetation 325° - 000° .
27612 F 0757	-Kalpeni.	10° 05.0' N 73° 38.0' E	Fl.(3)W. period 20s fl. 0.5s, ec. 3.4s fl. 0.5s, ec. 3.4s fl. 0.5s, ec. 11.7s	144 44	18	Round masonry tower; 131.	Obscured by vegetation 190° - 195° .
27616 F 0755	-Androth Island.	10° 48.6' N 73° 42.1' E	Fl.(2)W. period 10s	114 35	16	White square masonry tower, black bands; 107.	Visible 097° -069° .
	-RACON		D(- • •)				
27620 F 0755.2	--W. end.	10° 48.7' N 73° 40.0' E	Fl.W. period 15s	43 13	16	White concrete column; 33.	Visible 067° -221° .
27624 F 0755.5	-Kavarat Island.	10° 34.0' N 72° 38.8' E	Fl.W. period 5s fl. 0.3s, ec. 4.7s	131 40	18	White concrete tower; 125.	
	-RACON		K(- • -)				
27628 F 0755.53	--Boat Entrance.	10° 34.8' N 72° 38.9' E	Fl.(2)W. period 10s			White round concrete tower, black bands.	
27632 F 0692	Ponnani.	10° 46.5' N 75° 55.3' E	Fl.W. period 15s	108 33	26	White round concrete tower, black bands; 98.	
27636 F 0689	Beypore.	11° 09.5' N 75° 48.3' E	Fl.(2)W. period 15s	105 32	24	White octagonal concrete tower, red bands; 98.	Storm signal.
	RACON		G(- - •)				
CALICUT:							
27640 F 0686	-Calicut.	11° 15.5' N 75° 46.2' E	Fl.(2)W. period 6s fl. 0.3s, ec. 1.4s fl. 0.3s, ec. 4s	56 17	10	White masonry tower; 50.	Storm signals. Night morse signals from sunset to 2400 and 0400 to sunrise.
27644 F 0687	-N. Pier, head.	11° 15.4' N 75° 46.1' E	F.R.	23 7	2	Post.	
27648 F 0688	-S. Pier, head.	11° 14.8' N 75° 46.2' E	F.R.	23 7	2	White masonry tower, black bands, white dwelling.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDIA-WEST COAST							
27652 F 0682	Kadalur Point.	11° 28.0' N 75° 39.0' E	Fl.W. period 5s fl. 0.2s, ec. 4.8s	187 57	23	White concrete tower, black band; 115.	
27660 F 0678	Mahe, S. side of river entrance.	11° 42.0' N 75° 31.9' E	Fl.(2)W. period 10s	98 30	12		
27664 F 0674	Tellicherry, fort wall.	11° 45.0' N 75° 29.0' E	Fl.(3)W. period 9s	89 27	10	White masonry tower.	Visible 322° -120° .
27668 F 0672	Cannanore.	11° 51.5' N 75° 21.4' E	Fl.W. period 10s	115 35	18	White round concrete tower, red bands; 75.	
27672 F 0671	Azhikal.	11° 56.6' N 75° 18.1' E	Fl.(2)W. period 8s	89 27	10		Storm signal.
27676 F 0669.5	Kotte Kunnu.	12° 00.4' N 75° 12.2' E	Fl.(2)W. period 20s	230 70	18	White triangular masonry tower, red bands; 59.	
27680 F 0668.5	Kasaragod.	12° 30.0' N 74° 58.0' E	Fl.(3)W. period 20s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 14.5s	118 36	26	White octagonal concrete tower, black bands; 98.	Storm signals.
27684 F 0668	Mangalore, S. part of Marine Yard.	12° 52.0' N 74° 50.0' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	33 10	11	White masonry tower, black bands; 36.	Visible 018° -153° . Storm signals.
27688 F 0666	-New Mangalore Range, front.	12° 55.8' N 74° 49.3' E	Q.W.	56 17	6	White concrete tower.	
27692 F 0666.1	--Rear, 630 meters 078° 56' from front.	12° 55.8' N 74° 49.6' E	Oc.W. period 10s	89 27	6	Red square concrete tower, white bands.	
27696 F 0664	-Airfield.	12° 57.9' N 74° 53.5' E	Aero.AI.W.G. period 7.5s	374 114	28	Control tower.	Occasional.
27700 F 0660	Suratakal Point.	13° 00.2' N 74° 47.4' E	Fl.W. period 10s	144 44	31	White square masonry tower, red bands; 118.	
	RACON		C(- • - •)				
27704 F 0658	Kap.	13° 13.0' N 74° 44.0' E	Fl.(3)W. period 20s fl. 0.2s, ec. 3.8s fl. 0.2s, ec. 3.8s fl. 0.2s, ec. 11.8s	140 43	24	White masonry tower, black bands; 89.	
27708 F 0655	Malpe.	13° 20.6' N 74° 41.1' E	Fl.W. period 3s	94 29	16	White square masonry tower.	
27709 F 0656	-N. breakwater.	13° 20.9' N 74° 41.5' E	Fl.R. period 3s	36 11	3		Shown from Sept. 1 to May 31.
27710 F 0657	-S. breakwater.	13° 21.0' N 74° 41.6' E	Fl.G. period 3s	36 11	3		Shown from Sept. 1 to May 31.
27712 F 0652	Coondapoor , S. side of river.	13° 37.0' N 74° 40.0' E	Fl.(2)W. period 10s	115 35	18	Mast; 40.	Visible 354° -152° .
27716 F 0651	-Tippu Sultan Gudda.	13° 39.6' N 74° 39.5' E	Fl.(2)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 8s	98 30	18	RCC tower; 98.	
27724 F 0648	Bhatkal.	13° 57.9' N 74° 32.0' E	Fl.(2)W. period 20s	184 56	27	Square masonry tower; 46.	Visible 310° -129° , 132° -160° . Storm signals.
	Auxiliary light.		F.R.	118 36	16	Metal mast; 6.	Visible 319° -012° .
27732 F 0644	Honavar , in hospital compound.	14° 16.5' N 74° 26.5' E	Fl.W. period 15s	135 41	18	Mast; 50.	Visible 344° -164° except where obscured by trees when bearing less than 035° .
27736 F 0645	-Off wharf 244 meters SSW. of Honavar.	14° 16.5' N 74° 26.5' E	Fl.R. period 5s	23 7	7	Round concrete hut on white metal tower.	Shown Sept. 16 to May 15.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDIA-WEST COAST							
27744 F 0638	Tadri, N. side of entrance.	14° 30.8' N 74° 20.5' E	Fl.(3)W. period 20s	124 38	18	Black and white stone tower.	
27748 F 0637	Kukra Island.	14° 42.5' N 74° 14.4' E	Fl.(3)W. period 10s fl. 0.3s, ec. 1.7s fl. 0.3s, ec. 1.7s fl. 0.3s, ec. 5.7s	217 66	9	White tower, black bands.	Shown Sept. 16 to May 15.
KARWAR BAY:							
27752 F 0636	-Port Karwar, Port Office.	14° 48.0' N 74° 07.0' E	Q.R.	76 23	6	White metal framework tower, red bands; 52.	Extinguished June 16 to Sept. 15. Storm signals.
27752.1 F 0636.2	-Karwar Harbor, Anjadip Island, E. Head.	14° 45.2' N 74° 07.4' E	Fl.R. period 3s	33 10	5		
27752.2 F 0636.5	--Round Island, S. Breakwater.	14° 45.5' N 74° 07.7' E	Fl.G. period 3s	39 12	5		
27752.3 F 0636.6	--Range, front.	14° 46.5' N 74° 07.5' E	Q.W.	59 18	5		
27752.4 F 0636.7	---Rear, 429 meters 000° from front.	14° 46.8' N 74° 07.5' E	Fl.W. period 5s	105 32	5		
27752.5 F 0636.8	Kwada Bay, Breakwater.	14° 45.0' N 74° 09.9' E	Fl.R. period 5s	30 9	7		
27752.6 F 0636.9	-Kwada Island.	14° 44.1' N 74° 09.9' E	Fl.G. period 5s	43 13	7		
27756 F 0634	-Oyster Rocks.	14° 49.2' N 74° 03.6' E	Fl.W. period 10s fl. 0.2s, ec. 9.8s	208 63	26	Red round masonry tower, white cupola; 62.	
	-RACON		D(- • •)				
GOA:							
27760 F 0622	-Marmagao, breakwater, N. head.	15° 25.1' N 73° 47.5' E	Fl.W.R.G. period 5s fl. 1.5s, ec. 3.5s	85 26	W. 20 R. 16 G. 16	White concrete tower; 75.	W. 080° -120°, R.-197° 30' , W.-304°, G.-080° . Radar reflector.
27764 F 0622.2	-Mole, head.	15° 25.1' N 73° 47.6' E	Fl.W. period 10s fl. 1s, ec. 9s	26 8	10	White masonry tower; 20.	Fl.R. 3s mark mooring dolphins SE.
27764.4 F 0623	-Vasco Bay, W. transit, front.	15° 24.0' N 73° 48.5' E	F.G.	26 8		Beacon.	
27764.41 F 0623.1	--Rear.	15° 24.0' N 73° 48.5' E	F.G.	33 10		Beacon.	
27764.5 F 0623.2	--E. transit, front.	15° 24.0' N 73° 48.6' E	F.R.	26 8		Beacon.	
27764.51 F 0623.3	---Rear.	15° 24.0' N 73° 48.6' E	F.R.	33 10		Beacon.	
27766	-Marmagao Signal Station RACON	15° 24.8' N 73° 47.2' E	G(- - •)				Tower marked by R. lights.
27768 F 0628	-St. George Island.	15° 21.1' N 73° 45.8' E	Fl.(4)W.R. period 20s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 13.5s	306 93	W. 9 R. 6	White round tower, black stripes; 52.	R. 185° -225° , W.-185° .

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDIA-WEST COAST							
-Aguada Bay:							
27772 F 0606	--Aguada.	15° 29.5' N 73° 46.4' E	Fl.(3)W. period 20s fl. 0.4s, ec. 3.5s fl. 0.4s, ec. 3.5s fl. 0.4s, ec. 11.8s	279 85	27	White rectangular concrete tower; 69.	
			O(---)				
27776 F 0607	--SE. of Aguada.	15° 29.4' N 73° 46.4' E	Fl.R. period 3s	86 26	12	White round stone tower; 39.	Shown 1 Sept. to 31 May.
27780 F 0610	--Panaji entrance Range, front.	15° 29.7' N 73° 49.0' E	Fl.W. period 3s	75 23	6	White round masonry tower; 72.	Shown 1 Sept. to 31 May.
27784 F 0610.1	--Rear, 1.17 miles 053° 54' from front.	15° 30.4' N 73° 50.0' E	Fl.W. period 3s	184 56	8	White concrete tower, white triangular daymark, red stripe; 36.	Shown Sept. 1 to May 31.
27788 F 0613	--Tejo Range, front.	15° 29.3' N 73° 48.7' E	Q.R.	36 11	5	White concrete column, black bands; 30.	Shown Sept. 15 to May 31.
27792 F 0613.1	--Rear, 90 meters 191° 18' from front.	15° 29.3' N 73° 48.6' E	FR.	46 14	8	White pyramidal tower with black bands, white triangulat daymark, black band; 39.	Shown Sept. 15 to May 15.
27796 F 0614	--Raaj-Magus.	15° 30.0' N 73° 48.8' E	Fl.G. period 1.5s	42 13	3	White round stone tower; 39.	Shown 15 Sept. to 15 May.
27800 F 0600	Vengurla.	15° 51.2' N 73° 37.0' E	Fl.R. period 5s fl. 0.3s, ec. 4.7s	269 82	24	Hexagonal masonry tower, black bands; 43.	Storm signals.
27804 F 0598	Vengurla Rocks (Burnt Islands).	15° 53.3' N 73° 27.8' E	Fl.(2)W. period 20s fl. 0.3s, ec. 4.7s fl. 0.3s, ec. 14.7s	162 49	26	White metal tower, red bands; 66.	Partially obscured by islands in the vicinity.
			D(-••)				
MALVAN BAY:							
27808 F 0597	-Sindhudrug Janjira.	16° 02.4' N 73° 27.5' E	Fl.W. period 5s	43 13	5		Shown 1 Sept. to 31 May.
27820 F 0596	-On beach, E. side of bay, front.	16° 03.0' N 73° 28.2' E	FR.	33 10	4	White mast; 15.	Visible 023° -114° . Shown 16 Sept. to 15 June.
27824 F 0596.1	--Rear, 220 meters 075° 32' from front.	16° 03.0' N 73° 28.3' E	Fl.G. period 3s	59 18	8	White and red checkered steel frame tower; 45.	Visible 073° -079° . Shown 16 Sept. to 15 June, weather permitting.
27828 F 0590	Devgarh Harbor.	16° 23.3' N 73° 22.3' E	Fl.(4)W. period 23s	138 42	25	White round masonry tower, black bands; 35.	Storm signals. F.R. light close SSW.
27832 F 0592	Achra Point.	16° 12.0' N 73° 26.0' E	Fl.(2)W. period 6s	162 49	8	Framework tower; 30.	Seasonal.
27836 F 0588	Vijayadrug Harbor, NE. corner of fort.	16° 34.0' N 73° 20.0' E	L.Fl.W.R.G. period 9s fl. 2s, ec. 7s	52 16	5	White metal tower, red bands; 19.	G. 270° -045° partially obscured by trees, R.-090° , W.-270° .
27840 F 0586	Rajapur, Wagapur Point.	16° 36.3' N 73° 19.4' E	Fl.W. period 15s fl. 0.4s, ec. 14.6s	150 46	29	White square concrete tower, black bands; 66.	Storm signals.
27844 F 0587	Musargagi Point.	16° 37.0' N 73° 20.0' E	Fl.(2)W. period 7.5s	114 35	8	Skeleton tower; 30.	Shown Sept. 1 to May 31.
27850 F 0583	Pawas Point.	16° 53.6' N 73° 16.7' E	Fl.(2)W. period 15s	36 11	4	White metal tower, red bands.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDIA-WEST COAST							
27856 F 0580	Ratnagiri.	16° 59.1' N 73° 16.4' E	Fl.(2)W. period 10s fl. 0.4s, ec. 1.6s fl. 0.4s, ec. 7.6s	336 102	28	Round concrete tower, black and white bands; 49.	Visible 166° -076° . Storm signals. Radiobeacon.
	Auxiliary light.		F.R.	285 87	9	Concrete pedestal.	Visible 303° -357° .
	RACON		G(- - •)				
27864 F 0579	Warori Bluff.	17° 11.5' N 73° 14.5' E	Fl.W. period 10s	165 50	8	Framework tower; 30.	Shown from 1 Sept. to 31 May.
27868 F 0578	Jaigarh.	17° 18.0' N 73° 12.0' E	Fl.(4)W. period 20s fl. 0.2s, ec. 2.6s fl. 0.2s, ec. 2.6s fl. 0.2s, ec. 2.6s fl. 0.2s, ec. 11.4s	133 41	24	Red iron tower, white bands; 72.	Visible 303° 30' -242° 30' . Storm signals.
27880 F 0577	Boria Bay.	17° 23.0' N 73° 12.0' E	Fl.R. period 5s	123 37	6	Framework tower; 30.	Seasonal.
27884 F 0576	Palshet.	17° 27.0' N 73° 11.0' E	Fl.(2)W. period 6s	192 59	8	Framework tower; 30.	Obscured when bearing more than 141° . Seasonal.
27886	Kathalwadi Platform.	17° 32.0' N 73° 04.8' E	Fl.Y.				Gong: Mo.(U) 15s.
PORT DABHOL:							
27888 F 0566	-Tolkeshwar Point.	17° 34.0' N 73° 09.0' E	Fl.(3)W. period 15s fl. 0.4s, ec. 2.6s fl. 0.4s, ec. 2.6s fl. 0.4s, ec. 8.6s	342 104	21	White square masonry tower; 45.	
27892 F 0570	-Fort Anjanwel, N. point Range, front.	17° 34.0' N 73° 09.0' E	Fl.W. period 3s	17 5	5	Concrete pillar, triangular topmark; 10.	Shown 1 Sept. to 30 June.
27896 F 0570.1	--Yeldur Hill, rear, 1335 meters 081° from front.	17° 34.4' N 73° 09.9' E	Q.R.	98 30	8	White steel tower; 12.	Shown 1 Sept. to 30 June.
27900 F 0574	-SW. corner of jetty.	17° 35.0' N 73° 11.0' E	F.R.	26 8	4	Wooden post; 17.	Storm signals. Shown 16 Sept. to 15 June.
27904 F 0564	Harnai (Herni) Promontory.	17° 48.0' N 73° 06.0' E	Fl.R. period 5s	95 29	8	White masonry tower; 32.	Visible 280° -154° . Storm signals.
27908 F 0562	Nanwell Point.	18° 16.7' N 72° 56.2' E	Fl.(3)W. period 15s	217 66	18	White masonry tower, red band; 62.	
	Auxiliary Light.		F.R.	174 53	4		Visible 057° -075° .
27912 F 0563	Srivardhan Bay.	18° 03.0' N 72° 59.7' E	Q.(4)W. period 5s	152 46	8	Framework tower; 30.	Shown Sept. 1 to May 31.
27916 F 0559	Janjira, on Bandar Hill.	18° 18.0' N 72° 57.0' E	Fl.(2)W. period 15s	261 80	8	Skeleton tower; 30.	Shown Sept. 1 to May 31.
27924 F 0557.6	Chaul Kadu Reefs.	18° 35.8' N 72° 50.9' E	Fl.R. period 3s	55 17	4	White round masonry tower; 63.	
27928 F 0558	Chaul.	18° 32.3' N 72° 54.3' E	Fl.W. period 3s fl. 1s, ec. 2s	108 33	13	White square masonry tower, black bands; 52.	
	RACON		O(- - -)				
27932 F 0557	Alibag, Kolaba Fort.	18° 38.0' N 72° 52.0' E	F.W.G.	32 10	5		Shown Sept. 1 to May 31 for fishing and coasting craft. G. 340° -070° , W.-145° . Storm signals.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDIA-WEST COAST							
27936 F 0556	Khanderi Island.	18° 42.2' N 72° 48.9' E	Fl.(2)W.R. period 10s fl. 0.3s, ec. 2.6s fl. 0.3s, ec. 6.8s	154 47	W. 25 R. 22	Octagonal tower on flatroof house; 100.	R. 336° -001° , W.-201° .
27940 F 0556.5	-Landing Place Range, front.	18° 42.0' N 72° 49.0' E	F.R.	52 16			Occasional.
27944 F 0556.51	--Rear, 168° from front.	18° 42.2' N 72° 49.9' E	F.R.	62 19			Occasional.
BOMBAY:							
27952 F 0514	-Prongs Reef.	18° 52.7' N 72° 48.0' E	Fl.W. period 10s	135 41	23	Round tower, red, white and black bands; 171.	Obscured 171° -232° .
RACON							
G(- - •)							
27956 F 0516	-Sunk Rock.	18° 53.4' N 72° 50.0' E	Fl.(2)W.R. period 6s fl. 0.3s, ec. 1.4s fl. 0.3s, ec. 4s	65 20	W. 13 R. 7	Red and yellow checkered round tower; 91.	W. 186° -209° , R.-015° , W.-031° , R.-069° , obscured elsewhere.
27960 F 0515	-Gull Island.	18° 50.1' N 72° 53.8' E	Fl.W. period 5s	85 26	7	Galvanized metal framework tower; 64.	
27964 F 0555	-Revas.	18° 49.3' N 72° 56.8' E	F.R.	16 5	3	Black wooden post.	
27968 F 0520	-Dolphin Rock.	18° 54.8' N 72° 50.2' E	Fl.(4)W.R. period 20s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 15s	36 11	W. 11 R. 5	Gray masonry tower; white dome; 58.	R. 147° -236° , W.-270° , R.-000° , obscured elsewhere.
27972 F 0521	-Naval Dockyard, S. breakwater, head.	18° 55.5' N 72° 50.7' E	Fl.R. period 3s	49 15	5	Mast on building; 43.	
27976 F 0523	-Breakwater pier, E. head.	18° 55.7' N 72° 50.4' E	F.R.	27 8	5	Steel column; 16.	
27984 F 0528	-Indira Dock Range, front.	18° 56.0' N 72° 50.6' E	F.R.	26 8	7	Framework structure, white double ball topmark, black border.	
27988 F 0528.1	--Rear, 120 meters 305° from front.	18° 56.1' N 72° 50.5' E	2 F.R. (vert.)	39 12	7	Mast, white double ball topmark, black border.	
27992 F 0532	-N. Channel.	18° 57.1' N 72° 51.1' E	Oc.R. period 5s lt. 3s, ec. 2s	19 6	8	Beacon, red and white bands; 28.	Visible 070° -320° .
27996 F 0534	-Victoria Dock.	18° 57.1' N 72° 50.8' E	F.R.	6	6	Framework structure.	Occasional.
28004 F 0546	-Tucker.	18° 56.0' N 72° 52.5' E	Oc.W.R. period 5s lt. 3s, ec. 2s	70 21	13	White framework tower on red masonry beacon, black and white bands.	W. 007° 30' -036° 30' , R. elsewhere.
28008 F 0547	-Elephanta Island Range, front.	18° 57.0' N 72° 55.0' E	Q.W.	39 12			
28012 F 0547.1	--Rear, 150 meters 055° from front.	18° 57.5' N 72° 55.8' E	Q.W.	72 22			
28016 F 0548	-Uran Range, front.	18° 56.0' N 72° 54.0' E	Q.W.	22 7		Black steel framework beacon.	Visible 043° -003° .
28020 F 0548.1	--Rear, 0.5 mile 202° 42' from front.	18° 55.7' N 72° 54.0' E	Q.W.	39 12	5	Black round beacon.	Visible 077° -000° .
28024 F 0549	-Butcher.	18° 57.0' N 72° 54.0' E	Fl.(4)W.R. period 10s	30 9		Beacon.	R. 055° -206° , W.-elsewhere.
28028 F 0550	-Butcher Island Range, front.	18° 58.0' N 72° 54.0' E	F.R.				

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDIA-WEST COAST							
28032 <i>F 0550.1</i>	--Rear, 230 meters 255° from front.	18° 57.6' N 72° 53.8' E	F.R.				
28040 <i>F 0551</i>	-Pir Pau Bulk Oil Pier.	18° 59.0' N 72° 55.0' E	F.R.	15 5	1	One light at each end of pier.	A F.R. light visible 4 miles is shown from center of pier when oil vessels are discharging. 6 F.R. lights are shown on pile pier connecting S. shore of Trombay Island.
28044 <i>F 0502</i>	Uarashi.	19° 04.5' N 72° 48.7' E	Fl.R. period 10s fl. 1s, ec. 9s	33 10	5	Beacon; 34.	Exhibited from Oct. 1 to May 31. Two Fl. R. 5s 8m 4M lights on dolphins 1.9 miles SSW. Two Fl. R. 5s 8m 4M lights on dolphins 4.5 miles SSW. Aero Radiobeacon 2.8 miles NNE.
28048 <i>F 0501</i>	Santa Cruz AVIATION LIGHT.	19° 05.5' N 72° 51.9' E	Al.Fl.W.G. period 4s	82 25	W. 27 G. 25	Control tower.	
28052 <i>F 0500</i>	Vesava.	19° 09.0' N 72° 48.0' E	Fl.W. period 2s fl. 0.3s, ec. 1.7s	45 14	5	White post; 50.	Visible 003° -040° . Storm warning signals.
28056 <i>F 0498</i>	Bassein, on rocks 366 meters from pier.	19° 19.0' N 72° 49.0' E	Q.R.	16 5	2	Iron post on masonry base.	
28060 <i>F 0499</i>	Utan.	19° 16.6' N 72° 46.8' E	Fl.(2)W. period 15s	175 53	24	White square masonry tower, red bands.	Storm signals.
28064 <i>F 0496</i>	Donghri Point, S. side of entrance to Bassein Creek.	19° 18.0' N 72° 48.0' E	F.G.	46 14	6	Iron column; 7.	Visible 095° -240° . Exhibited from Sept. 16 to June 15.
28068 <i>F 0494</i>	Arnala, on mainland, near Arnala custom house.	19° 27.4' N 72° 44.8' E	Fl.(3)W.R. period 15s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 11.5s	60 18	8	White metal framework tower; 50.	R. 048° -091° , W.-098° , obsc.-100° , W.-114, obsc. and partially obsc.-130, W. elsewhere. Storm signals.
28072 <i>F 0493</i>	Kelve (Kelwa) Mahim.	19° 36.0' N 72° 44.0' E	Fl.W. period 5s fl. 0.3s, ec. 4.7s	43 13	3	White mast; 50.	Visible 058° -152° . Storm signals.
28076 <i>F 0492</i>	Satpati.	19° 43.3' N 72° 42.2' E	Fl.(2)W. period 20s	98 30	20	RCC tower.	Storm signals.
28080 <i>F 0491.8</i>	Nowapur.	19° 47.3' N 72° 42.4' E	F.W.	35 11	6	Mast head.	Storm signals.
28084 <i>F 0491.5</i>	Tarapur.	19° 50.8' N 72° 39.5' E	Fl.(3)W. period 30s fl. 0.4s, ec. 5.6s fl. 0.4s, ec. 5.6s fl. 0.4s, ec. 17.6s	82 25	23	White square masonry tower, black bands; 75.	Storm signals.
			F.R.	33 10	9		
28088 <i>F 0491</i>	Dahanv.	19° 58.7' N 72° 43.1' E	Fl.W. period 5s fl. 0.3s, ec. 4.7s	43 13	10	White steel framework tower; 39.	
28092 <i>F 0489</i>	Umbargaon.	20° 11.7' N 72° 45.0' E	Fl.W. period 15s fl. 0.3s, ec. 14.7s	115 35	19	White concrete tower, red bands; 98.	Storm signals.
	RACON		M(- -)				
28096 <i>F 0490</i>	Maroli.	20° 18.0' N 72° 47.0' E	Fl.W. period 1.5s fl. 0.3s, ec. 1.2s	40 12	5	White steel framework tower; 35.	Shown Sept. 16 to June 15.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDIA-WEST COAST							
PORT DAMAN:							
28100 <i>F 0484</i>	-Rio Sandalcalo.	20° 24.0' N 72° 50.0' E	Fl.W. period 10s	115 35	21	White round concrete tower, black bands; 101.	Storm signals. A F.R. light is located 0.2 mile northward on N. side of river.
28108 <i>F 0480</i>	Bulsar Khari, S. side of entrance to Auranga River.	20° 37.0' N 72° 53.0' E	Fl.(4)W. period 20s	105 32	14	White metal framework tower; 98.	
28112 <i>F 0479</i>	Kanai Creek.	20° 48.8' N 72° 49.7' E	Fl.(2)W. period 20s fl. 0.5s, ec. 3s fl. 0.5s, ec. 16s	111 34	17	White round concrete tower, black bands; 98.	
28116 <i>F 0478</i>	Warsi Borsi.	20° 55.7' N 72° 46.1' E	Fl.W. period 7s	118 36	17	White square concrete tower, red bands.	
GULF OF KHAMBHAT:							
28120 <i>F 0476</i>	-Hazira.	21° 05.1' N 72° 38.7' E	Fl.(3)W. period 15s fl. 0.4s, ec. 2s fl. 0.4s, ec. 2s fl. 0.4s, ec. 9.8s	128 39	24	White round masonry tower; 82.	
	-RACON		K(- • -)				
28122 <i>F 9307</i>	-Sutherland Channel, Reliance SPM.	21° 08.5' N 72° 34.5' E	Mo.(U)W. period 15s			Superbuoy.	Horn: Mo.(U) 30s.
	-RACON		U(• • -)				
28124 <i>F 0472</i>	-Dandi Point, entrance to Bhagwa Creek.	21° 18.8' N 72° 36.7' E	L.Fl.W. period 10s fl. 2s, ec. 8s	82 25	10	Steel framework structure; 86.	Visible 355° -180°.
28128 <i>F 0470</i>	-Luhara Point, N. side of Narbada River entrance.	21° 39.5' N 72° 32.9' E	Fl.W. period 15s	92 28	11	White metal tower, red spiral; 79.	
	-RACON		D(- • •)				
28130 <i>F 0469.5</i>	-Luhara, GCPTCL terminal control light.	21° 41.5' N 72° 30.5' E	Fl.R. period 5s	115 35	10	Control tower.	
28132 <i>F 0468</i>	-Devjagan, N. bank of Dhadar River entrance.	21° 55.0' N 72° 30.0' E	F.W.	41 12	10	Round stone column; 44.	Visible 294° -181° . Shown Sept. 1 to June 15.
	-Bhavnagar:						
28144 <i>F 0458</i>	--On point 5.1 kilometers 071° 30' from the landing.	21° 49.0' N 72° 12.0' E	Fl.W. period 12s		6	White hut on piles; 20.	
28148 <i>F 0459</i>	--N. side of Bhaunagar Creek.	21° 50.0' N 72° 11.0' E	Fl.R. period 10s fl. 1s, ec. 9s	30 9	10		
28152 <i>F 0460</i>	--S. side of Bhaunagar Creek.	21° 49.0' N 72° 11.0' E	Fl.W. period 7s	30 9	10		
28156 <i>F 0456</i>	--Ruvapari, W. side of channel.	21° 46.7' N 72° 13.9' E	Fl.W. period 12s	65 20	10	Gray hut on piles.	
28160 <i>F 0455</i>	--Bhaunagar New Port Range, front.	21° 45.0' N 72° 14.0' E	F.R.				
28164 <i>F 0455.1</i>	---Rear, 1020 meters 251° 07' from front.	21° 45.3' N 72° 13.0' E	F.W.				
28168 <i>F 0455.6</i>	--Bhaunagar New Port.	21° 45.0' N 72° 14.0' E	Fl.R. period 8s	79 24	8		
28172 <i>F 0454</i>	--Tide gauge.	21° 44.0' N 72° 16.0' E	Fl.W. period 5s	13 4	8	Hut; 13.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDIA-WEST COAST							
28176 F 0452	-Ghogha Bandar, S. side of entrance.	21° 41.0' N 72° 17.0' E	Oc.R. period 15s lt. 11s, ec. 4s	72 22	10	White rectangular masonry tower, red bands; 40.	
28180 F 0448	-Piram Island.	21° 35.9' N 72° 21.0' E	Fl.(2)W. period 10s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 7.2s	150 46	27	White round masonry tower, black bands; 90.	
	-RACON		B(- • • •)				
28184 F 0449	<i>Perigee light vessel.</i>	21° 42.1' N 72° 18.3' E	Fl.W. period 7s	39 12	8	Red hull.	Bell. Radar reflector.
28188 F 0446	-Alang.	21° 24.1' N 72° 11.1' E	Fl.W. period 3s fl. 0.4s, ec. 2.6s	128 39	14	White hexagonal masonry tower, black bands; 79.	
	-RACON		C(- • - •)				
28192 F 0444	-Gopnath Point.	21° 12.0' N 72° 07.0' E	Fl.(3)W. period 20s	135 41	18	Red and white square masonry tower; 112.	
	-RACON		G(- - •)				
28196 F 0442	-Jhanjmer.	21° 10.8' N 72° 03.7' E	Fl.W. period 10s	148 45	7	White square masonry structure; 28.	
28200 F 0438	Jegri Island.	21° 02.4' N 71° 48.2' E	Fl.(2)W. period 20s fl. 0.3s, ec. 3.7s fl. 0.3s, ec. 15.7s	187 57	27	Black square masonry tower, white bands; 107.	
28204 F 0436	Savai Bet.	20° 54.2' N 71° 31.6' E	Fl.(4)W. period 30s fl. 0.3s, ec. 4.7s fl. 0.3s, ec. 4.7s fl. 0.3s, ec. 4.7s fl. 0.3s, ec. 14.7s	144 44	21	White square tower, red bands; 46.	
	RACON		M(- -)				
28208 F 0432	-Jafarabad Harbor.	20° 51.4' N 71° 22.9' E	Fl.W. period 10s	95 29	24	White round tower on hexagonal tower, square base; 62.	Storm signals.
28212 F 0432.2	-Islet E. of harbor.	20° 51.4' N 71° 23.0' E	F.R.	26 8	14	Hut; 10.	Visible 248° -267°.
28216 F 0432.4	-650 meters ENE of harbor.	20° 52.0' N 71° 23.0' E	F.R.	56 17	5		
28232 F 0430.6	Rajpura.	20° 47.5' N 71° 12.3' E	Fl.W. period 5s	80 24	7	Rectangular cabin, pillar at one corner; 17.	Shown from Sept. 1 to June 15.
28236 F 0430	Simar.	20° 47.0' N 71° 09.0' E	Fl.W. period 10s fl. 0.5s, ec. 9.5s	30 9	7	Stone column and hut; 17.	
	DIU:						
28240 F 0429	-Simar Fort, 16.7 kilometers E. of Dui Harbor.	20° 45.7' N 71° 09.1' E	F.W.	30 9	2	Quadrangular pyramid on fort; 5.	Seasonal.
28244 F 0426	-Nawabandar.	20° 44.4' N 71° 04.8' E	Fl.(4)W. period 12s fl. 0.8s, ec. 1s fl. 0.8s, ec. 1s fl. 0.8s, ec. 1s fl. 0.8s, ec. 5.8s	89 27	16	White round tower; 49.	Storm signal.
28256 F 0422	-Forte do Mar.	20° 43.2' N 70° 59.8' E	Fl.G. period 4s	56 17	6	White round tower; 23.	Shown Sept. 1 to May 31.
28260 F 0424	-Couraca.	20° 42.9' N 70° 59.9' E	Fl.R. period 4s	20 6	6	White hexagonal tower; 15.	Shown Sept. 1 to May 31.
28264 F 0420	Cavaleiro.	20° 43.0' N 71° 00.0' E	Fl.W. period 2s	148 45	20	White round concrete tower, black bands; 49.	Storm signals. Signal station.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDIA-WEST COAST							
28266 F 0414.2	Vanakbava.	20° 42.4' N 70° 52.7' E	Fl.(3)W. period 10s		12		Rescue Control Center.
28268 F 0414	Diu Head.	20° 41.5' N 70° 49.6' E	Fl.W. period 10s fl. 0.3s, ec. 9.7s	194 59	32	White hexagonal masonry tower, red bands; 121.	
	RACON		D(- • •)				
28270	Sutrapara.	20° 50.0' N 70° 29.0' E	Fl.W. period 7s	20 6	8		
28272 F 0410	Veraval Roads.	20° 54.6' N 70° 21.2' E	Oc.W. period 15s	108 33	24	White masonry tower, black bands.	
	RACON		K(- • -)				
28276 F 0412	-Bhirria.	20° 54.0' N 70° 23.0' E	Fl.R. period 10s fl. 0.5s, ec. 9.5s	30 9	4	White masonry structure, black bands; 20.	
28280 F 0406	Mangrol.	21° 06.5' N 70° 06.3' E	Fl.(2)W. period 20s	118 36	26	White hexagonal concrete tower, red bands; 115.	
28282 F 0406.1	-W. breakwater.	21° 06.3' N 70° 06.0' E	Fl.R. period 3s	43 13	6	Square concrete tower; 13.	
28284 F 0404	Navibandar.	21° 26.9' N 69° 47.2' E	Fl.W. period 10s	60 18	12		
28288 F 0400	Porbandar.	21° 37.3' N 69° 37.2' E	Fl.W. period 5s	154 47	26	White round concrete tower, black bands; 135.	Radiobeacon.
	RACON		D(- • •)				Azimuth coverage 140° - 300° 30' .
28290 F 0401	-Breakwater, head.	21° 37.0' N 69° 35.5' E	Fl.R. period 3s		5		
28296 F 0398	Navadra.	21° 57.0' N 69° 14.1' E	Fl.(3)W. period 10s	180 55	18	White round concrete tower, red bands; 115.	
28300 F 0396	Dwarka Point.	22° 14.4' N 68° 57.5' E	Fl.(2)W. period 20s fl. 0.3s, ec. 4.7s fl. 0.3s, ec. 14.7s	156 48	30	White square stone tower, black bands; 138.	
	RACON		G(- - •)		18		Azimuth coverage 273° 30' - 225° .
28304 F 0397	Kachchigadh.	22° 19.8' N 68° 57.9' E	Fl.(4)W. period 15s fl. 0.4s, ec. 1.5s fl. 0.4s, ec. 1.5s fl. 0.4s, ec. 1.5s fl. 0.4s, ec. 8.9s	112 34	26	White round concrete tower, red bands; 98.	
	RACON		K(- • -)		10		
GULF OF KUTCH:							
28308 F 0390	-Okha Port, Samiani Island.	22° 29.3' N 69° 05.2' E	Fl.W.R. period 5s fl. 0.5s, ec. 4.5s	71 22	11	White round stone tower; 65.	W. 057° -217° , R.-247° , W.- 260° , R.-290° , W.-009° .
28312 F 0388	-Humani Point.	22° 28.6' N 69° 04.2' E	Fl.(3)W. period 25s fl. 0.3s, ec. 4.7s fl. 0.3s, ec. 4.7s fl. 0.3s, ec. 14.7s	86 26	25	White square masonry tower, red bands; 75.	
	-RACON		O(- - -)		15		Azimuth coverage 355° 30' - 311° 30' .
28316 F 0389	-Samiani Island, NE. reef, outer end.	22° 29.5' N 69° 05.5' E	Fl.G. period 3s	46 14	5	Trestle structure; 39.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDIA-WEST COAST							
28320 <i>F 0393</i>	-Mithapur, about 10.2 meters SW. of Vomani Point.	22° 24.0' N 69° 01.0' E	F.R.	174 53	10	Building; 163.	
28324	- <i>Ranwara Shoals Lighted Buoy.</i>	22° 42.0' N 69° 21.0' E	Fl.R. period 10s			Red can buoy.	
28328 <i>F 0386.5</i>	-Chanka Reef, NW. end.	22° 32.6' N 69° 16.2' E	Q.W.	56 17	9	White round tower; 39.	
	-RACON		D(- • •)				
28332 <i>F 0386</i>	-Chanka Island 1.9 km. NNE. of island.	22° 32.8' N 69° 24.6' E	Fl.W. period 15s fl. 1s, ec. 14s	46 14	11	Gray square concrete tower; 26.	
28336 <i>F 0384</i>	-Karumbhar Island.	22° 26.3' N 69° 35.2' E	Fl.(3)W. period 15s	89 27	12	White round stone tower; 65.	
28340 <i>F 0383</i>	-Pathfinder Inlet, No. 1.	22° 27.7' N 69° 40.3' E	Fl.(2)R. period 5s	32 10	5	Beacon.	
28344 <i>F 0383.5</i>	--No. 2.	22° 27.5' N 69° 39.8' E	Fl.(2)G. period 5s	32 10	5	Beacon.	
28347 <i>F 0382.5</i>	-Sikka Range, front.	22° 29.5' N 69° 50.9' E	F.R.		4		
28347.5 <i>F 0382.51</i>	--Rear, 444 meters 130° from front.	22° 29.3' N 69° 51.1' E	F.R.		4		
28352 <i>F 0380</i>	- Pirothan Island.	22° 36.2' N 69° 57.2' E	Fl.W. period 20s fl. 0.4s, ec. 19.6s	62 19	24	White round masonry tower, black bands.	Radar reflector.
	-RACON		K(- • -)				
28356 <i>F 0378</i>	-Beacon, NE. of Pirothan Island.	22° 37.2' N 69° 58.3' E	Fl.R. period 10s fl. 0.5s, ec. 9.5s	18 5	5	White pyramidal concrete tower, red bands; 26.	
28358.8 <i>F 0367.2</i>	-Sathsaida Range, front.	22° 57.8' N 70° 15.9' E	Fl.W. period 3s	30 9	8		
28358.81 <i>F 0367.3</i>	--Rear, 889 meters 050° 30' from front.	22° 58.1' N 70° 16.3' E	Iso.W. period 3s	46 14	8		
28359 <i>F 0367.6</i>	-Kandla Creek Approach Range, front.	22° 58.3' N 70° 15.7' E	Q.R.	26 8	6	White framework tower, black bands, triangular daymark; 16.	Forms range 035° 30' with common rear.
28359.3 <i>F 0367.62</i>	--Range, front.	22° 58.3' N 70° 15.7' E	Q.W.	26 8	8		In line 037° 30' with common rear.
28359.5 <i>F 0367.61</i>	---Common rear.	22° 58.7' N 70° 15.9' E	Iso.R. period 1.5s	43 13	7	White framework tower, triangular daymark, black bands; 36.	
28366 <i>F 0367.8</i>	-Mungra Reef.	22° 45.6' N 70° 11.0' E	Fl.(2)W. period 15s	23 7	10	White round concrete tower, red bands; 33.	
28368 <i>F 0368</i>	-Jodiya Bandar.	22° 43.5' N 70° 16.8' E	Fl.W. period 10s	102 31	11	Framework tower; 98.	
28372 <i>F 0371</i>	-Gudaba Creek.	22° 55.4' N 70° 25.4' E	Fl.(2)W. period 20s	40 12	8	Red metal framework tower, white triangular daymark.	
28376 <i>F 0370</i>	-Navlakhi Island, NW. end.	22° 57.7' N 70° 26.6' E	Fl.(3)W. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	98 30	12	White round concrete tower, red bands; 98.	
	-RACON		B(- • • •)				
28378 <i>F 0365</i>	- Bhadreswar.	22° 54.5' N 69° 54.8' E	Fl.(3)W. period 20s	253 77	16	White masonry tower; 197.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
INDIA-WEST COAST							
28380 <i>F 0366</i>	-Tekra.	22° 55.5' N 70° 07.3' E	Fl.W. period 7s fl. 0.3s, ec. 6.7s	55 17	17	Metal column on black masonry tower, white stripes; 47.	
28392 <i>F 0367</i>	-Kandla AVIATION LIGHT.	23° 08.0' N 70° 06.0' E	Al.Fl.W.G. period 5s	129 39		Control tower; 92.	Occasional.
28396 <i>F 0362</i>	-Navinar Point.	22° 43.8' N 69° 42.4' E	Fl.(2)W. period 15s fl. 0.3s, ec. 3.5s fl. 0.3s, ec. 10.9s	105 32	19	White structure, black bands; 98.	Marine control tower.
	-RACON		C(- • - •)				
28398 <i>F 0361.8</i>	-Mundra Port, No 1.	22° 45.1' N 69° 42.1' E	Q.G.	62 19	10		
28398.5 <i>F 0361.81</i>	--No 2.	22° 45.5' N 69° 41.6' E	Oc.G.	112 34	10		
28404 <i>F 0360</i>	-Raval Pir.	22° 49.0' N 69° 23.0' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	60 18	6	Square concrete tower; 31.	
	MANDVI:						
28408 <i>F 0358</i>	-Breakwater, head.	22° 49.0' N 69° 20.0' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	25 8	6		
28411 <i>F 0357</i>	-Mandvi.	22° 49.7' N 69° 20.9' E	Fl.(3)W. period 30s fl. 1s, ec. 5s fl. 1s, ec. 5s fl. 1s, ec. 17s	207 63	16	White round concrete tower on fort, red bands; 98.	
	-RACON		G(- - •)				
28416 <i>F 0356</i>	-Chachi.	22° 57.0' N 69° 00.0' E	Fl.(3)W. period 15s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 9.7s	106 32	24	White masonry tower, black bands; 102.	Radar reflector.
28420 <i>F 0355</i>	-Jakhau.	23° 14.3' N 68° 36.6' E	Fl.W. period 10s fl. 0.3s, ec. 9.7s	150 46	18	Red and white checkered round concrete tower; 135.	
	-RACON		M(- -)				

Section 18

Pakistan, Gulf of Oman and Persian Gulf

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PAKISTAN							
28421 <i>D 7850</i>	Kajhar Creek.	23° 48.1' N 68° 02.2' E	Fl.W. period 12s	151 46	25		
28422 <i>D 7800</i>	Turshian.	24° 04.6' N 67° 24.0' E	Fl.(3)W. period 20s	151 46	20		
PORT MUHAMMAD BIN QASIM:							
28424 <i>D 7760</i>	-Khuddi Island.	24° 33.6' N 67° 13.2' E	Fl.(4)W. period 30s	132 40	17	White round concrete tower, black bands.	
28427 <i>D 7760.09</i>	-Ahsan Channel Range, front.	24° 38.2' N 67° 06.5' E	Q.W.	39 12	11	Black metal pipe with platform.	
28428 <i>D 7761</i>	--Rear, about 2600 meters 032° 26' from front.	24° 39.4' N 67° 07.3' E	Oc.W.	102 31	16	Black metal pipe.	Visible 029° 54' -034° 54' .
28436 <i>D 7761.5</i>	-Bundal Island, No. 4.	24° 41.3' N 67° 08.4' E	Fl.Y. period 4s	33 10	5	Black metal pipe with platform.	
28441 <i>D 7763.1</i>	-Phitti Creek Range, front.	24° 43.6' N 67° 09.1' E	Q.W.	26 8	5	Black metal pipe with platform.	
28441.1 <i>D 7763.11</i>	--Rear, about 700 meters 010° 21' from front.	24° 44.0' N 67° 09.1' E	Iso.W. period 4s	66 20	6	Black metal pipe with platform.	
28442 <i>D 7763.5</i>	-Kunni Range, front.	24° 45.6' N 67° 12.3' E	Q.W.	26 8	5	Black metal pipe with platform.	
28442.1 <i>D 7763.51</i>	--Rear, about 1100 meters 056° 22' from front.	24° 45.9' N 67° 12.8' E	Fl.W. period 4s	66 20	6	Black metal pipe with platform.	
28445 <i>D 7763.9</i>	-Hasan Point, No. 7.	24° 46.8' N 67° 14.1' E	Iso.Y. period 4s	33 10	5	Black metal pipe, green top with platform.	
28446 <i>D 7763.91</i>	-No. 8A.	24° 47.1' N 67° 14.2' E	F.W.	33 10	1	Black metal pipe, red top with platform.	
28456 <i>D 7767</i>	-Aziz Point, No. 11.	24° 46.2' N 67° 18.1' E	Fl.Y. period 7s	33 10	4	White round tower.	
KARACHI HARBOR:							
28472 <i>D 7750</i>	-Manora Point.	24° 47.6' N 66° 58.7' E	Fl.W. period 7.5s fl. 0.3s, ec. 7.2s	156 48	26	Red round tower, white bands, black base, white cupola; 125.	Storm signals. Signal station.
28476 <i>D 7751</i>	-Karachi Range, front.	24° 47.2' N 67° 59.6' E	Iso.W. period 2s	39 12	14	Framework tower.	
28480 <i>D 7751.1</i>	--Rear, 840 meters 040° from front.	24° 47.6' N 66° 59.9' E	Oc.W. period 7s lt. 5s, ec. 2s	66 20	14	Framework tower.	
28488 <i>D 7752</i>	-Bara Andai.	24° 47.9' N 66° 59.9' E	Fl.(2)W.R. period 8s	114 35	6	White square building; 15.	R. 335° -031° , W.-094° .
28492 <i>D 7756</i>	-Pundit AVIATION LIGHT.	24° 52.8' N 66° 56.5' E	Mo.(MA)R. period 6s	46 14	12		
28496 <i>D 7753</i>	-Breakwater, head.	24° 47.1' N 66° 58.9' E	Fl.W. period 8s	50 15	12		
28497 <i>D 7754</i>	-Training wall.	24° 50.0' N 66° 58.0' E	Fl.W. period 10s			White beacon; 19.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
GULF OF OMAN							
UNITED ARAB EMIRATES:							
28556 D 7333	-Diba, E. breakwater.	25° 38.0' N 56° 19.0' E	Oc.R. period 2.5s	42 13	9	Post.	
28556.2 D 7334	--W. breakwater.	25° 38.0' N 56° 19.0' E	Fl.G. period 5s	30 9	5	Post.	
28556.4 D 7334.4	--Fishing harbor, main breakwater.	25° 37.1' N 56° 16.5' E	Fl.R. period 5s fl. 0.3s, ec. 4.7s	24 7	5	Framework tower; 10.	
28556.6 D 7334.5	---Lee breakwater.	25° 37.1' N 56° 16.5' E	Fl.G. period 5s fl. 0.3s, ec. 4.7s	23 7	5	Framework tower; 10.	
28558 D 7332.3	-Jabal Dadnah.	25° 31.4' N 56° 21.9' E	Q.R.			Red and white framework structure; 121.	
28559 D 7332.36	-Badiyah, breakwater, head.	25° 25.8' N 56° 21.9' E	Fl.(2)R. period 5s	16 5	5		
28559.1 D 7332.367	--Lee breakwater, head.	25° 25.8' N 56° 21.9' E	Fl.(2)G. period 5s	16 5	5		
28560 D 7332	-Lulayyah, E. breakwater.	25° 23.6' N 56° 22.0' E	Fl.R. period 5s	16 5	5	Post.	
28564 D 7331	-Khawr Fakkan, Container Terminal, N. end.	25° 21.5' N 56° 21.9' E	Q.R.				
28565.5 D 7329.8	-Merbeh.	25° 15.6' N 56° 22.0' E	Iso.R. period 2s	121 37	15	Red and white metal trestle structure.	
28566 D 7330	--Fishing Harbor, breakwater.	25° 16.0' N 56° 22.3' E	Fl.W. period 5s	16 5	5	Post.	
28566.2 D 7332.45	-Fujayrah Naval Base, breakwater, head.	25° 15.2' N 56° 22.4' E	Fl.(3)G. period 10s		8		
28566.3 D 7332.46	--Lee breakwater, head.	25° 15.3' N 56° 22.3' E	Fl.(3)R. period 10s		8		
28567 D 7329.6	-Vopak ENOC Fujayrah Terminal, S. Berth 2.	25° 12.1' N 56° 22.2' E	2 F.G. (vert.)	59 18	3	Pipe on dolphin; 26.	
28567.2 D 7329.65	--Middle.	25° 12.3' N 56° 22.2' E	F.R.G. (vert.)	59 18	3	Pipe on walkway and pipe support structure on piles.	
28567.4 D 7329.7	--N. Berth 1.	25° 12.4' N 56° 22.2' E	2 F.R. (vert.)	46 14	3	Pipe on dolphin; 26.	
28570 D 7329.1	--AVIATION LIGHT.	25° 11.4' N 56° 20.3' E	2 Fl.W. period 2s	896 273	30	Red and white tower.	
28574 D 7329.5	-Oil Terminal 2.	25° 11.1' N 56° 22.6' E	Fl.R. period 2.5s	39 12	5	White metal column, red bands; 33.	
28576 D 7329.4	-N. breakwater.	25° 10.5' N 56° 22.1' E	Fl.G. period 3s	46 14	8	Green tower, white bands; 13.	
	-RACON		T(-)		16		(3 & 10cm)
28580 D 7329.3	-S. breakwater.	25° 10.6' N 56° 21.9' E	Fl.R. period 3s	46 14	8	Red tower, white bands; 13.	
28584 D 7328	-Gurah, jetty, head.	25° 07.8' N 56° 21.5' E	Fl.R. period 5s	16 5	5		Fl.W. 5s 5m 5M marks inner breakwater.
28584.1 D 7328.1	--W. breakwater.	25° 07.8' N 56° 21.5' E	Fl.G. period 5s	16 5	5		
28586 D 7327	-Kalba, fishing harbor, outer breakwater, head.	25° 04.9' N 56° 21.8' E	Fl.(2)R. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 8s	16 5	5		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
GULF OF OMAN							
OMAN:							
28587 <i>D 7326.5</i>	-Shinas.	24° 44.9' N 56° 28.5' E	Fl.R. period 5s	19	6	5	Metal post; 10.
28587.5 <i>D 7326.6</i>	--N. breakwater.	24° 44.8' N 56° 28.4' E	Fl.G. period 5s	16	5	4	Metal post; 7.
28588	-Sohar, <i>Fairway Buoy.</i>	24° 34.9' N 56° 38.0' E	L.Fl.W. period 10s				SAFE WATER RW, pillar, topmark.
	-RACON		Q(- - -)				
28588.1 <i>D 7326.25</i>	--E. breakwater, 180°.	24° 29.6' N 56° 37.7' E	Dir.F.W.R.G.	49	15	10	Gray metal lattice tower. G. 178.4°-179.4°, GW.-179.7°, W-180°, WR.-180.3°, R-181.3°.
28588.2 <i>D 7326.34</i>	--Entrance, E. side.	24° 30.6' N 56° 37.8' E	Fl.(2)R. period 4s	33	10	5	Metal post in security cage; 13.
28588.4 <i>D 7326.33</i>	--W. side.	24° 30.6' N 56° 37.6' E	Fl.(2)G. period 4s	33	10	5	Metal post in security cage; 13. Iso.G. 4s and Iso.R. 4s lights mark entrance to Harmool harbor 1.4 miles NW.
28588.6 <i>D 7326</i>	--Majis jetty.	24° 29.2' N 56° 38.7' E	Iso.R. period 4s	16	5	3	White metal post; 6.
SOHAR:							
28588.8 <i>D 7326.28</i>	-Vale Terminal, head.	24° 31.8' N 56° 37.5' E	Iso.W. period 4s	30	9	9	Metal post; 10.
28588.81 <i>D 7326.282</i>	--No. 3.	24° 31.6' N 56° 37.1' E	Fl.(2+1)Y. period 6s	30	9	3	Metal post; 3.
28588.82 <i>D 7326.283</i>	--No.2.	24° 31.5' N 56° 37.0' E	Fl.Y. period 5s	23	7	3	Metal post; 3.
28589 <i>D 7325.9</i>	--AVIATION LIGHT.	24° 19.0' N 56° 43.0' E	Fl.W. period 3s fl. 1s, ec. 2s	361	110	25	Mast; 197.
			4 F.R. (vert.)				15 meters apart.
28589.5 <i>D 7325.8</i>	-Saham.	24° 09.2' N 56° 54.6' E	Fl.(3)W. period 12s	26	8	5	White and green striped post; 10.
28589.8 <i>D 7325.74</i>	-Al Khaburah, fishing harbor, entrance.	23° 58.3' N 57° 07.5' E	Fl.(2)G. period 5s	16	5	3	Metal post; 10. Surrounding breakwater marked by 3 W. lights and 1 G. light.
28589.9 <i>D 7325.26</i>	-As Suwayq, fishing harbor, W. breakwater, head.	23° 51.4' N 57° 26.6' E	L.Fl.G. period 6s				L.Fl.R. 6s marks E. breakwater.
28590 <i>D 7324.4</i>	-Wudam, Said bin Sultan Naval Base, N. breakwater, head.	23° 49.8' N 57° 32.1' E	Iso.W. period 4s	33	10	7	Gray metal mast; 13. Fl.G. and Fl.R. beacons mark entrance channel.
28590.2 <i>D 7324.5</i>	--Directional Light 204°.	23° 49.1' N 57° 32.1' E	Dir.Iso.W.R.G. period 2s	43	13	3	Black pile, orange diamond daymark. G. 202° 48' -204° 06', W.-205° 24', R.-208°.
28590.4 <i>D 7325.2</i>	--270°.	23° 49.8' N 57° 31.5' E	Dir.Iso.W.R.G. period 2s	43	13	3	Black pile, orange diamond daymark. G. 267° 30' -268° 48', W.-270° 48', R.-271° 42'.
28591 <i>D 7324.835</i>	-Wudam, breakwater, head.	23° 48.5' N 57° 34.3' E	Fl.(3)W. period 10s	13	4	5	Grey metal post; 7.
28592 <i>D 7324</i>	- Jaza'ir Daymaniyat.	23° 51.3' N 58° 04.0' E	Fl.W. period 10s	102	31	15	Metal framework tower.
	-RACON		M(- -)			25	(3 & 10cm)
28596 <i>D 7323</i>	-Bayt al Barakat, jetty.	23° 43.0' N 58° 05.5' E	F.R.			3	Metal post.
28597 <i>D 7322.8</i>	-Seeb Fishing Harbor, W. breakwater, head.	23° 41.6' N 58° 11.0' E	L.Fl.G. period 6s	16	5	5	Gray metal post, green triangular daymark, point up; 10.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
GULF OF OMAN							
28597.5 <i>D 7322.85</i>	--E. breakwater.	23° 41.5' N 58° 10.9' E	L.F.I.R. period 6s	16 5	5	Gray metal post, red square daymark; 10.	
28597.8 <i>D 7322.71</i>	Wave Project Marina, S. breakwater.	23° 38.3' N 58° 16.1' E	Iso.W.R.G. period 4s	26 8	3	Galvanized steel beacon; 10.	G. 310° -320°, W.-025°, R.-105°.
28597.81 <i>D 7322.76</i>	--NW. breakwater, head.	23° 38.4' N 58° 15.8' E	Fl.(9)W. period 15s	33 10	5	Galvanized steel beacon, black triangular daymark; 10.	
28597.82 <i>D 7322.55</i>	--SE. breakwater, head.	23° 37.8' N 58° 16.7' E	Fl.(2)W. period 8s	39 12	5	Galvanized steel beacon; 13.	
28598 <i>D 7322.5</i>	-Ghubrah, Desalination Plant.	23° 36.6' N 58° 24.7' E	Q.W.	16 5	3	N. CARDINAL BY, column, topmark.	
28600 <i>D 7322</i>	-Jazirat Al Fahl.	23° 40.8' N 58° 30.0' E	Fl.W. period 15s	313 95	7	Metal framework structure, white triangular daymark; 21.	
28604.4 <i>D 7322.25</i>	--Breakwater.	23° 38.3' N 58° 30.6' E	Iso.G. period 2s	29 9	3	Metal post; 10.	
28605 <i>D 7321.6</i>	-Port Sultan Qaboos, breakwater, head.	23° 37.6' N 58° 34.3' E	Iso.G. period 8s	30 9	7	STARBOARD (A) G, post, topmark; 10.	R. Lt. on Riyam tower 830 meters SE. R. Lts. on radio mast 0.88 mile SE.
28605.1 <i>D 7321.62</i>	-NW.	23° 37.7' N 58° 34.3' E	F.G.	7 2	2		
28605.2 <i>D 7321.7</i>	--Jetty, head, NE. corner.	23° 37.5' N 58° 34.1' E	Fl.R. period 3s	7 2	2		
28605.3 <i>D 7321.72</i>	--SW. corner.	23° 37.5' N 58° 34.1' E	F.G.	7 2	2		
28605.5 <i>D 7321.74</i>	--Berth No. 11.	23° 37.4' N 58° 34.0' E	F.R.	7 2	2		Can be obscured by background shore lights.
28605.7 <i>D 7321.76</i>	--Ship lift.	23° 37.4' N 58° 33.9' E	F.G.	7 2	2		F.G. 2M marks ship lift close NNW.
28608 <i>D 7320</i>	-Masqat, N. summit.	23° 37.6' N 58° 35.8' E	Fl.W. period 12s fl. 1s, ec. 11s	312 95	14	White square tower, round lantern house; 16.	Visible 042° -304°.
	-RACON		N(- •)		25	TV mast; 10.	
28608.2 <i>D 7320.2</i>	--Fisher's Rock.	23° 37.7' N 58° 35.7' E	Fl.R. period 3s	10 3	3	PORT (A) R, post, topmark; 10.	
28609 <i>D 7319</i>	-Sidab, breakwater.	23° 36.0' N 58° 36.0' E	F.R.	20 6	5	White post; 10.	
28609.2 <i>D 7319.2</i>	--Ship lift.	23° 36.0' N 58° 35.9' E	F.G.	20 6	5	White post; 10.	
28610 <i>D 7318.4</i>	-Bandar Al Rowdha, E. breakwater.	23° 35.1' N 58° 36.5' E	Fl.(2)R. period 5s	30 9	5	Metal post; 7.	
28610.2 <i>D 7318.5</i>	--N. breakwater.	23° 35.0' N 58° 36.4' E	Fl.(4)G. period 15s	23 7	3	Metal post; 3.	
28611 <i>D 7318.32</i>	-As Sifah, breakwater.	23° 25.0' N 58° 47.6' E	Fl.R. period 5s	30 9	5	Metal post, red square daymark; 10.	
28612 <i>D 7318.2</i>	-Qurayat, S. breakwater.	23° 16.0' N 58° 55.9' E	Iso.R. period 4s	23 7	4	Red metal post; 13.	
28612.2 <i>D 7318.22</i>	--N. breakwater.	23° 16.1' N 58° 55.9' E	Iso.G. period 4s	23 7	4	Green metal post; 13.	
28612.4 <i>D 7318.24</i>	--Groin.	23° 16.4' N 58° 55.5' E	Q.(3)W. period 10s	16 5	3	E. CARDINAL BYB, post, topmark; 13.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ARABIAN SEA AND GULF OF ADEN							
28613 <i>D 7315.4</i>	Dawhat Sawqirah, Lakbi.	18° 11.0' N 56° 33.0' E	Fl.W. period 10s	39 12	8	Red metal post; 20.	
28616 <i>D 7318.171</i>	Qalhat , Fisherman's Warning Light.	22° 39.9' N 59° 24.1' E	Fl.W. period 8s	72 22	25		Visible 153° -291° . Vessels to stop fishing and clear the area, imminent tanker movement at LNG terminal. By day 6M. Occasional.
			Fl.G. period 8s	72 22	10		Visible 153° -291° . Vessels to stay clear of area, tanker movement in progress. By day 1M. Occasional.
28617 <i>D 7315.8</i>	Duqm, E. breakwater, head.	19° 41.6' N 57° 43.7' E	Iso.R. period 4s	23 7	6	Red metal post, red square daymark; 10.	
28617.1 <i>D 7315.81</i>	-N. breakwater, head.	19° 41.4' N 57° 43.3' E	Iso.G. period 4s	23 7	6	Green metal post, green triangular daymark; 10.	
28617.3 <i>D 7315.85</i>	-Government Berths.	19° 40.8' N 57° 42.5' E	Q.G.	10 3	5	Galvanized steel beacon; 3.	
28617.5 <i>D 7315.9</i>	-Drydock, jetty.	19° 40.1' N 57° 43.1' E	Iso.W. period 4s	23 7	5	Metal post; 10.	
28617.7 <i>D 7315.92</i>	-Commercial Quay, S. corner.	19° 40.0' N 57° 43.4' E	Mo.(V)W.	23 7	3	Metal post; 6.	
28617.9 <i>D 7315.96</i>	--N. corner.	19° 41.2' N 57° 43.6' E	Q.R.	10 3	5	Galvanized steel beacon; 3.	
28618 <i>D 7318.1</i>	Sur, Ra's Ayqah.	22° 34.1' N 59° 32.4' E	Fl.W. period 5s	65 20	10	Ornamental tower; 59.	Visible 122° -268° .
28618.2 <i>D 7318.13</i>	-Fishery Harbor, N. breakwater.	22° 34.8' N 59° 32.0' E	Fl.G. period 5s	30 9	4	Green metal post; 13.	
28618.4 <i>D 7318.14</i>	--E. breakwater.	22° 34.7' N 59° 31.8' E	Fl.R. period 5s	30 9	4	Red metal post; 13.	
PERSIAN GULF							
28620 <i>D 7710</i>	Khov-e Minab approach.	27° 05.0' N 56° 48.2' E	Fl.W. period 3s	7 2	7	Beacon.	
28624 <i>D 7709</i>	Bandar 'Abbas, E. breakwater.	27° 07.8' N 56° 12.4' E	Iso.G. period 4s	20 6	5	Green tower.	
28628 <i>D 7709.2</i>	-W. breakwater.	27° 07.7' N 56° 12.1' E	Iso.R. period 4s	20 6	6	Red tower.	
28632 <i>D 7709.4</i>	-Entrance Range, front.	27° 09.4' N 56° 12.2' E	Q.W.		5	Red, white and blue metal framework tower; 33.	
28636 <i>D 7709.41</i>	--Rear, 500 meters 000° from front.	27° 09.6' N 56° 12.2' E	Iso.W. period 4s			Red, white and blue metal framework tower; 49.	
28640 <i>D 7709.7</i>	-Inner Harbor, E. side.	27° 08.3' N 56° 12.3' E	Fl.G. period 5s	10 3		Gray metal structure.	
28644 <i>D 7709.6</i>	--W. side.	27° 08.3' N 56° 12.2' E	Q.R.	10 3		Gray metal structure.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PERSIAN GULF							
SHAHID RAJA'I:							
28647 D 7707	-Entrance Range, front.	27° 05.7' N 56° 02.4' E	Oc.W. period 4s	79 24	12		
28647.1 D 7707.1	--Rear, 2130 meters 284° from front.	27° 06.0' N 56° 01.2' E	Oc.W. period 4s	144 44	12		
28647.5 D 7707.5	-Hormozgan Terminal.	27° 07.3' N 56° 05.5' E	Dir.Iso.W.R.G. period 2s	108 33	15		G. 270° 18' -271° 18' , W.- 272° 42' , R.-273° 42' .
-RACON			C(- • - •)				
28648 D 7708	-E. breakwater, head.	27° 05.4' N 56° 04.3' E	Fl.G. period 3s			Framework tower.	
28652 D 7708.2	-W. breakwater, head.	27° 05.2' N 56° 04.2' E	Fl.R. period 2s			Framework tower.	
28656 D 7708.4	-E. inner breakwater, head.	27° 05.5' N 56° 04.1' E	Fl.(3)G. period 10s			Framework tower.	
28660 D 7708.5	-W. inner breakwater, head.	27° 05.3' N 56° 03.9' E	Fl.(3)R. period 10s			Framework tower.	
28669 D 7337.5	Jazireh-ye Larak, N. coast.	26° 53.1' N 56° 21.2' E	Fl.(2)W. period 10s	131 40	18		
28676 D 7338	Ramchah, E. breakwater.	26° 53.9' N 56° 10.0' E	Fl.(3)G. period 12s	23 7			
28680 D 7338.2	-W. breakwater.	26° 54.0' N 56° 10.0' E	Fl.(3)R. period 12s	23 7			
28684 D 7339	Jazireh-ye Hengam.	26° 37.8' N 55° 54.1' E	Fl.W. period 10s	121 37	12	Square metal tower, concrete base; 13.	Visible 173° -014° .
RACON			M(- -)				
28685 D 7335.5	Keshal Rock.	26° 23.6' N 56° 24.7' E	Fl.(2)W. period 5s	10 3	5	ISOLATED DANGER BRB, beacon, topmark.	
28686 D 7340.2	Ghabnat Karban, breakwater.	26° 22.0' N 56° 21.8' E	Fl.W. period 3s fl. 1s, ec. 2s	7 2	3	Green metal post.	Radar reflector.
28687 D 7340.4	-Jetty, NE.	26° 22.0' N 56° 21.7' E	Fl.R. period 5s	20 6	3	Gray metal post; 7.	
28687.2 D 7340.5	--SW.	26° 22.0' N 56° 21.7' E	L.Fl.R. period 10s	20 6	3	Gray metal post; 7.	
28688 D 7340	Khawr Al Quway.	26° 21.9' N 56° 21.6' E	Fl.W. period 3s	7 2	3	Green metal post.	
28690 D 7334.8	Bukha, N. breakwater.	26° 09.0' N 56° 08.8' E	Iso.G. period 2s	23 7	4	Black metal post; 7.	
28690.1 D 7334.85	-E. breakwater.	26° 09.0' N 56° 08.8' E	Iso.R. period 2s	20 6	4	Black metal post; 7.	
28692 D 7341	Al Jeeb, breakwater.	26° 02.6' N 56° 04.9' E	Fl.(2)Y. period 10s	21 6	5		
28696 D 7344	Ghalilah, breakwater.	26° 00.1' N 56° 04.2' E	Fl.(3)Y. period 15s	21 6	5		
28700 D 7342	Sha'am, breakwater.	26° 01.8' N 56° 04.8' E	Fl.Y. period 5s	21 6	5		
28704 D 7346	Rams, N. Training Wall.	25° 53.4' N 56° 00.4' E	Fl.(3)R. period 15s	21 6	5		
28708 D 7346.2	-S. Training Wall.	25° 53.2' N 56° 00.3' E	Fl.G. period 5s	21 6	5		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PERSIAN GULF							
28715 <i>D 7348</i>	Ras al Khaymah, boat harbor.	25° 46.0' N 55° 54.9' E	Q.W.		2		
28716 <i>D 7349</i>	Jazirat Al Hamra.	25° 43.4' N 55° 47.9' E	Fl.W. period 7s	13	6		
28720 <i>D 7350</i>	Umm al Qaywayn, breakwater, head.	25° 36.6' N 55° 34.7' E	Fl.Y. period 5s	16	6		Lighted beacons mark entrance channel.
28724 <i>D 7703</i>	Jazireh-ye Tonb-e Bozorg.	26° 16.2' N 55° 17.9' E	Fl.W. period 10s fl. 0.3s, ec. 9.7s	246	18	Metal framework tower; 82.	Obscured 077° -080° by peak on Jazireh-ye-Tonb-e Kuchek.
	RACON		O(— —)				
28732 <i>D 7700</i>	Ras Dastakan.	26° 32.5' N 55° 17.0' E	Fl.(3)W. period 12s	40	7	White beacon.	
28740 <i>D 7704</i>	Jazireh-ye Tonb-e Kuchek.	26° 14.5' N 55° 08.8' E	Fl.W. period 10s	82	12	White beacon.	
28744 <i>D 7706</i>	Jazirat Abu Musa.	25° 53.1' N 55° 02.0' E	Fl.W. period 8s	427	9		
28756 <i>D 7699</i>	Lingeh, E. breakwater.	26° 32.8' N 54° 53.3' E	Fl.G. period 5s	30	8		
28760 <i>D 7699.2</i>	-W. breakwater.	26° 32.8' N 54° 53.2' E	Fl.R. period 5s	30	10		
28764 <i>D 7698</i>	Bostaneh.	26° 30.5' N 54° 36.5' E	Fl.W. period 10s	95	10	Red and white banded structure.	
28768 <i>D 7695</i>	Jazireh-ye Forur.	26° 17.6' N 54° 30.1' E	Fl.(2)W. period 10s	558	12	White metal framework tower, red bands, 56.	
	RACON		M(— —)				
28772 <i>D 7696</i>	Jazireh-ye Bani Forur.	26° 07.0' N 54° 26.7' E	Fl.W. period 5s	146	8		
28776 <i>D 7697</i>	Jazireh-ye Sirri.	25° 54.3' N 54° 33.1' E	Fl.(3)W. period 15s	100	10		Aero Radiobeacon about 900 meters SSW.
28784 <i>D 7697.2</i>	Jazireh-ye Sirri, E. breakwater.	25° 53.7' N 54° 32.3' E	Fl.(2)G. period 10s	19	5		
28788 <i>D 7697.4</i>	Jazireh-ye Sirri, W. breakwater.	25° 53.6' N 54° 32.2' E	Fl.(2)R. period 10s	19	5		
28792 <i>D 7692</i>	Jazireh-ye Kish.	26° 30.6' N 53° 58.8' E	Fl.(3)W. period 7s	128	15	Red and white framework tower.	
	RACON		O(— — —)				
28796 <i>D 7692.4</i>	-Breakwater, E. side.	26° 30.8' N 53° 55.7' E	Fl.G. period 5s	20	5		
28800 <i>D 7692.5</i>	-Breakwater, W. side.	26° 30.8' N 53° 55.7' E	Fl.R. period 5s	20	5		
28800.5 <i>D 7692.2</i>	-Dih, W. breakwater, head.	26° 34.1' N 54° 00.1' E	Fl.G. period 5s				
28801 <i>D 7692.3</i>	--E. breakwater, head.	26° 34.0' N 54° 00.0' E	Fl.R. period 5s				
28803 <i>D 7690.1</i>	Aftab, E. breakwater, head.	26° 43.1' N 53° 55.7' E	Fl.G. period 4s			Beacon.	
28803.1 <i>D 7690.2</i>	-W. breakwater, head.	26° 43.1' N 53° 55.7' E	Fl.R. period 4s			Beacon.	
28804 <i>D 7690</i>	Bandar-e Chiru.	26° 42.0' N 53° 43.8' E	Fl.W. period 5s		8	Concrete column; 7.	
28808 <i>D 7691</i>	Jazireh-ye Hendorabi.	26° 40.7' N 53° 38.5' E	Fl.(3)W. period 10s	190	10	Beacon.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PERSIAN GULF							
28812 <i>D 7689</i>	Ra's-e Nakhilu.	26° 51.5' N 53° 29.4' E	Fl.(3)W. period 18s	26 8	10	Beacon.	
28813 <i>D 7681.5</i>	Bandar-e Moqam.	26° 58.3' N 53° 28.2' E	Fl.W. period 5s	66 20	8		
28816 <i>D 7685</i>	Jazireh-ye Lavan.	26° 48.2' N 53° 21.4' E	Fl.(3)W. period 12s	177 54	15	Brown metal framework tower.	F.R. on radio tower close NW.
28820 <i>D 7685.4</i>	-Main.	26° 48.3' N 53° 19.3' E	Oc.R. period 3s	405 123	20	Radio tower; 328.	
2 F.R.							
28824 <i>D 7685.8</i>	-Boat Harbor, breakwater.	26° 48.0' N 53° 23.0' E	Fl.R. period 10s		5		
28832 <i>D 7686</i>	-Pipeline Range, front.	26° 47.7' N 53° 20.2' E	F.R.	112 34	12	Metal framework tower.	Visible 356° 37' -006° 37' .
28836 <i>D 7686.1</i>	--Rear, 850 meters 001° 37' from front.	26° 48.1' N 53° 20.2' E	F.R.	187 57	12	Metal framework tower.	Visible 356° 37' -006° 37' .
28840 <i>D 7686.3</i>	-Range, front.	26° 47.6' N 53° 20.4' E	F.R.		12		
28844 <i>D 7686.31</i>	--Rear, 680 meters 055° from front.	26° 47.8' N 53° 20.7' E	F.R.		12		Visible 051° -061° .
28848 <i>D 7686.5</i>	-Oil loading dock Range, front.	26° 47.6' N 53° 19.7' E	Q.R.			White post.	F.R. (occas) marks head and elbow of dock.
28852 <i>D 7686.51</i>	--Rear, about 230 meters 303° 48' from front.	26° 47.7' N 53° 19.6' E	Q.W.			White post.	
28856 <i>D 7685.6</i>	-Cargo ship anchorage Range, front.	26° 47.7' N 53° 22.6' E	Q.R.				
28860 <i>D 7685.61</i>	--Rear, about 222 meters 325° 44' from front.	26° 47.8' N 53° 22.6' E	Q.W.				
28864 <i>D 7688</i>	Jazireh-e Shitvar.	26° 47.3' N 53° 24.4' E	Fl.(2)W. period 10s		10	White beacon.	
28872 <i>D 7682</i>	<i>Cable Bank Lightfloat.</i>	26° 46.5' N 52° 31.9' E	Fl.(2)W. period 10s	49 15	8	Red hull.	Riding light Q.W.
28875	Al Shaheen Oilfield, Platform AS-AB.	26° 35.5' N 52° 00.1' E	Mo.(U)W. period 15s				
	RACON		U(• • -)				
28875.2	-Platform AS-BA.	26° 38.2' N 51° 57.0' E	Mo.(U)W. period 15s				
	-RACON		B(- • • •)				
28875.4	-Platform AS-CA.	26° 35.0' N 51° 55.5' E	Mo.(U)W. period 15s				
	-RACON		C(- • - •)				
28876 <i>D 7683</i>	Shah Allum Shoal.	26° 25.4' N 52° 29.9' E	Fl.(2)W. period 6s	98 30	18	ISOLATED DANGER BRB, beacon, topmark.	
28878 <i>D 7681</i>	Bandare Shiu.	27° 04.8' N 53° 08.6' E	Fl.(2)W. period 6s	56 17	8	Red and white metal tower.	
28879 <i>D 7680.5</i>	-NW.	27° 07.6' N 53° 00.0' E	Fl.(2)W. period 10s		10		
28880 <i>D 7680</i>	Ra's-e Nay Band.	27° 21.7' N 52° 36.4' E	Fl.W. period 5s	95 29	15		
28881 <i>D 7680.3</i>	Bandar Nay Band.	27° 24.1' N 52° 38.2' E	Fl.(2)W. period 8s	30 9	8		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PERSIAN GULF							
28882 <i>D 7679.5</i>	Taheri.	27° 39.1' N 52° 21.5' E	Fl.W. period 10s		12		
28883 <i>D 7679.3</i>	Tombak.	27° 43.3' N 52° 10.5' E	Fl.(2)W. period 10s		12		
28883.1 <i>D 7679</i>	Kangan, outer breakwater.	27° 49.8' N 52° 03.3' E	Fl.G. period 5s		16 5		
28883.2 <i>D 7679.2</i>	-Inner breakwater.	27° 49.9' N 52° 03.3' E	Fl.R. period 5s		16 5		
28883.5 <i>D 7678</i>	Deyyer, outer breakwater.	27° 49.6' N 51° 55.6' E	Fl.(3)G. period 10s		13 4		
28883.6 <i>D 7678.2</i>	-Inner breakwater.	27° 49.6' N 51° 55.6' E	Fl.(3)R. period 10s		13 4		
28884	Platform, SW. of Ra' s ol Motaf.	27° 38.3' N 51° 31.2' E	Fl.R. period 5s		5	Platform.	
28888 <i>D 7677</i>	<i>Ra's ol Motaf Lightfloat.</i>	27° 36.3' N 51° 26.7' E	Fl.W. period 12s		49 15	9 Red hull.	Riding light Q.W. Radar reflector.
	RACON		T(-)				
28892 <i>D 7676</i>	Jabrin.	27° 51.7' N 51° 26.7' E	Fl.(3)W. period 10s		9		
28900 <i>D 7674</i>	Kalat.	28° 27.1' N 51° 07.0' E	Fl.W. period 5s		98 30	10 Beacon.	
	RACON		O(- - -)				
BUSHEHR:							
28902 <i>D 7670.5</i>	-Ra's osh Shatt.	29° 08.7' N 50° 49.6' E	Fl.W. period 6s		69 21	18	
28904 <i>D 7671</i>	-Outer Range, front, A.	29° 01.7' N 50° 48.6' E	Iso.W. period 2s		6	Pile beacon.	Channel to Bushehr marked by lit buoys and beacons. Radar reflector.
28908 <i>D 7671.1</i>	--Rear, B, 1,350 meters 043° from front.	29° 02.2' N 50° 49.2' E	Iso.W. period 4s		7	Pile beacon.	Radar reflector.
28916 <i>D 7664.4</i>	Jazireh-ye Khark.	29° 12.9' N 50° 19.3' E	Fl.(2)W. period 12s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 8.8s	295 90	17	Aluminum lattice tower; 46.	Obscured 151° -160° within 7 miles.
28924 <i>D 7665.2</i>	-Sea Island Terminal, S.	29° 13.5' N 50° 17.2' E	3 F.R. (vert.)				
28928 <i>D 7665.3</i>	-Sea Island Terminal N., 549 meters NNW. of S. light.	29° 13.7' N 50° 17.1' E	3 F.R. (vert.)				
28930 <i>D 7668.4</i>	-I.P.A.C. Boat Harbor, breakwater, elbow.	29° 13.2' N 50° 20.0' E	Q.W.		5		The dredged area in the harbor is marked by lights.
28940 <i>D 7666</i>	-Kharg Harbor, W. breakwater, head.	29° 16.0' N 50° 19.6' E	Fl.(3)G. period 10s				<i>Light reported unreliable (1989).</i>
28944 <i>D 7666.2</i>	--E. breakwater, head.	29° 15.9' N 50° 19.7' E	Fl.(3)R. period 10s				Aero Radiobeacon 0.6 mile SW.
28948 <i>D 7663</i>	Jazireh-ye Kharku, island, N. head.	29° 20.4' N 50° 21.4' E	Fl.(3)W. period 10s		59 18	10 Aluminum lattice tower; 52.	Obscured 011° -041° by Jazireh-ye Khark. Radar reflector.
28952 <i>D 7662</i>	Ganaveh.	29° 35.3' N 50° 29.8' E	Fl.W.R. period 5s	56 17	W. 10 R. 8	Aluminum lattice tower; 51.	R. 021° -031° , W.-021° . Aeromarine light.
28954 <i>D 7661.1</i>	Bandar-e Deylam, S. breakwater.	30° 03.5' N 50° 08.3' E	Fl.(2)G. period 8s	23 7	5		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PERSIAN GULF							
28954.1 D 7661	-N. breakwater.	30° 03.6' N 50° 08.3' E	Fl.(2)R. period 8s	23 7	5		
28956 D 7648	<i>Knowr-E Musa Lightfloat.</i>	29° 37.1' N 49° 34.1' E	Fl.W. period 12s	35 11	11	Red hull and framework tower.	Fl.W. 5s anchor light. Radar reflector.
	RACON		T(-)				
28957 D 7649	-No. 2 Lightfloat.	29° 40.6' N 49° 29.2' E	Fl.R. period 6s			Red hull.	
28957.5	-Buoy No. 9.	29° 55.0' N 49° 09.6' E	Fl.G. period 3s			STARBOARD (A) G, pillar.	
	-RACON		M(- -)				
MARJAN/ZULUF TSS							
28958 D 7567	-Oilfield North Approach Buoy.	28° 32.0' N 49° 30.2' E	L.Fl.W. period 15s			SAFE WATER RW, pillar, topmark.	
	-RACON		N(- •)		16		
28959	-Oilfield South Approach Buoy.	28° 15.0' N 49° 18.6' E	L.Fl.W. period 10s			SAFE WATER RW, pillar, topmark.	
	-RACON		G(- - •)		11		
28972 D 7613	Khawr al Amaya Terminal.	29° 46.9' N 48° 48.5' E	Fl.W. period 5s	154 47	14	Radio tower on pile structure.	4 F.R. mark corners of terminal.
SHATT AL ARAB:							
28976 D 7612	-No. 2 Beacon.	29° 48.2' N 48° 44.6' E	Fl.G. period 6s				<i>Destroyed (2007).</i>
28992 D 7621	-E. Approach Beacon.	29° 54.0' N 48° 44.1' E	Fl.W. period 4s	18 5	2	Black framework topmark on pile structure.	
28996 D 7616	-Outer Bar Reach Range, front Beacon B.	29° 51.1' N 48° 45.1' E	Q.W.	18 5	6	Beacon, white triangular daymark, point up.	<i>Reported destroyed (1993).</i>
29000 D 7616.1	--Rear Beacon A, 1463 meters 121° from front.	29° 50.7' N 48° 45.9' E	F.W.	55 17	13	Beacon, black triangular daymark, point up.	Intensified 118° -124°. <i>Reported destroyed (1993).</i>
-Rooka Channel:							
29004 D 7623	-Inner Bar Range, front.	29° 52.8' N 48° 41.8' E	Q.W.	18 5	6	Pile structure, white triangular daymark on column.	Visible 119° -299°.
			Q.G.			Same structure, at base.	
29008 D 7623.1	--Rear, 0.8 mile 123° 50' from front.	29° 52.3' N 48° 42.6' E	F.W.	55 17	5	Pile structure, black framework tower, black triangular daymark.	Visible 120° -130°.
29012 D 7615	--Turning beacon.	29° 52.1' N 48° 43.6' E	I.Q.Y. period 8s	18 5	4	White column, black bands, on piles.	<i>Reported destroyed (1993).</i>
29016 D 7618	--Beacon No. 4, S. side of channel.	29° 52.8' N 48° 43.9' E	Fl.W. period 4s fl. 1s, ec. 3s	18 5	5	Red pile structure.	
29020 D 7619	-Beacon No. 5.	29° 53.3' N 48° 42.5' E	Fl.W. period 6s fl. 1s, ec. 5s	18 5	6	Black pile structure.	
29024 D 7622	--W. Channel Range, front.	29° 53.5' N 48° 41.7' E	Q.W.	18 5	6	Beacon, white triangular daymark, point up.	Visible 303° -309°.
29028 D 7622.1	--Rear, 549 meters 306° from front.	29° 53.9' N 48° 41.2' E	Oc.W. period 8s lt. 6s, ec. 2s	25 8	10	Beacon, white round daymark.	Visible 303° -309°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PERSIAN GULF							
29032 D 7614	Outer Bar Reach Range, front, Beacon C.	29° 52.9' N 48° 42.0' E	Q.W.		18 5	6 Pile beacon, white triangular daymark, point up.	<i>Reported destroyed and replaced by buoy showing Q.W.</i>
29036 D 7614.1	--Beacon D, rear, about 1512 meters 304° from front.	29° 53.3' N 48° 41.3' E	Oc.W. period 8s lt. 5s, ec. 3s		55 17	9 Piles, framework tower, black triangular daymark, point up.	
29044 D 7620	-Rooka Inner Beacon.	29° 54.2' N 48° 38.3' E	Fl.W. period 4s		18 5	11 Pile structure, black framework tower, black triangular daymark, point down.	Visible 282° -287°.
29048 D 7617	-Outer Bar Reach Range, front Beacon E.	29° 54.6' N 48° 38.6' E	Q.W.		18 5	6 Pile structure, white triangular daymark, point up.	
29052 D 7617.1	--Rear Beacon F, about 1509 meters 301° from front.	29° 55.0' N 48° 37.8' E	Oc.W. period 8s Fl.(2)G. period 11s		55 17	8 Pile structure, white round daymark. Same structure, at base.	Visible 028° -304°.
29056 D 7624	-Inner Bar Reach Range, front.	29° 56.9' N 48° 34.8' E	Q.W.		19 6	6 Pile structure, white round columns, white triangular daymark.	Visible 259° -349°.
29060 D 7624.1	--Rear, 640 meters 303° 50' from front.	29° 57.1' N 48° 34.4' E	Oc.W. period 8s lt. 6s, ec. 2s		50 15	11 Pile structure, white framework tower, black daymark.	Visible 294° -314°.
29064 D 7625	--Tide gauge and control tower.	29° 56.3' N 48° 35.5' E	Q.R.		20 6	2	
29068 D 7626	-Outer Fao Reach Range, front.	29° 56.3' N 48° 36.2' E	Q.W.		15 5	6	Visible 062° -152°.
29072 D 7626.1	--Rear, 1097 meters 107° from front.	29° 56.2' N 48° 36.8' E	Oc.W. period 8s lt. 6s, ec. 2s		39 12	11	Visible 097° -117°.
29076 D 7627	-Fao Reach Range, front.	29° 57.6' N 48° 30.7' E	Q.Y.		10 3	4 White round beacon.	Visible 278° -286°.
29080 D 7627.1	--Rear, 823 meters 281° 30' from front.	29° 57.6' N 48° 30.2' E	L.Fl.Y. period 7.5s fl. 2s, ec. 5.5s		33 10	4 White metal framework tower.	Visible 278° -286°.
29084 D 7630	-Middle Fao Reach Range, front.	29° 57.3' N 48° 31.5' E	Q.W.		12 4	5 White metal framework tower, white triangular daymark.	Visible 077° -170°.
29088 D 7630.1	--Rear, 878 meters 123° from front.	29° 57.0' N 48° 32.0' E	Oc.W. period 8s		63 19	5 White framework tower, black daymark.	Visible 120° -126°.
29092 D 7629	-Fao Reach (Al Faw) Range, front.	29° 58.2' N 48° 29.4' E	Q.W.		30 9	6 White framework tower.	Visible 246° -335°.
29096 D 7629.1	--Rear, 1653 meters 290° 30' from front.	29° 58.5' N 48° 28.4' E	Oc.W.R. period 8s lt. 6s, ec. 2s		75 23	7 Black framework tower, triangular daymark.	W. 143° -150°, R.-241°, W.-294°. Traffic and tide signals.
29100 D 7632.9	--Range, front, 677 meters 123° from common rear.	29° 59.7' N 48° 27.3' E	Q.W.		16 5	8 Pile structure, column, white triangular daymark.	Visible 288° -318°. In line 303° with common rear.
29104 D 7633	-Qasbat Reach, common rear.	29° 59.9' N 48° 26.9' E	Oc.W. period 8s lt. 6s, ec. 2s		54 16	6 White framework tower, black top, black triangular daymark.	Visible 138° -318°.
29108 D 7633.1	--Range, front, 347 meters 358° from common rear.	30° 00.0' N 48° 26.9' E	Q.W.		29 9	8 White metal framework, white diamond daymark.	Visible 168° -188°. In line 178° with common rear.
29112 D 7635	--Beacon A.	30° 00.7' N 48° 26.5' E	Q.W.R.G.		20 6	Beacon.	W. sector indicates anchorage.
29116 D 7635.2	--Beacon B.	30° 01.0' N 48° 26.5' E	Q.W.R.G.		20 6	Beacon.	W. sector indicates anchorage.
29120 D 7635.6	--Beacon C.	30° 01.3' N 48° 26.4' E	Q.W.R.G.		20 6		W. sector indicates anchorage.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PERSIAN GULF							
29124 <i>D 7635.8</i>	--Beacon D.	30° 01.5' N 48° 26.4' E	Q.W.R.G.	20	6		W. sector indicates anchorage.
29128 <i>D 7637</i>	-Brick Kiln, W. side of channel.	30° 07.8' N 48° 22.8' E	Fl.W.R. period 6s	45	14	7 White metal mast, black bands.	W. 217°-224°, R.-334° 30', W.-347° 30', obsc.-217°.
29132 <i>D 7640</i>	-Range, front.	30° 13.5' N 48° 22.5' E	Q.W.	25	8		Visible 132°-312°.
29136 <i>D 7640.1</i>	--Rear, 732 meters 141° from front.	30° 13.2' N 48° 22.8' E	Oc.W. period 8s	80	10		Visible 132°-151°.
29140 <i>D 7639</i>	-W. Bank.	30° 14.5' N 48° 21.4' E	Fl.G. period 2s	17	5	Pile structure, white column, black bands.	
KHAWR 'ABD ALLAH:							
29143 <i>D 7604.4</i>	-Khawr Al Qayd, N23.	29° 45.8' N 48° 27.0' E	Fl.(3)G. period 5s	10	3	5 STARBOARD (A) G, beacon.	
29143.1 <i>D 7604.5</i>	--N21.	29° 47.6' N 48° 25.6' E	Fl.(2)G. period 5s	10	3	5 STARBOARD (A) G, pile beacon with platform.	
29143.2 <i>D 7604.6</i>	--N22.	29° 54.1' N 48° 17.9' E	Fl.R. period 5s	10	3	5 PORT (A) R, beacon.	
29143.3 <i>D 7604.7</i>	--N20.	29° 56.8' N 48° 14.5' E	Fl.(2)R. period 5s	10	3	5 PORT (A) R, pile beacon with platform.	
29143.4 <i>D 7604.8</i>	--N18.	29° 58.6' N 48° 11.7' E	Fl.(3)R. period 5s	10	3	5 PORT (A) R, pile beacon with platform.	
29144 <i>D 7605</i>	-Warbah Spit.	30° 00.6' N 48° 12.1' E	Q.W.	12	4		White triangular daymark, point up.
29146 <i>K 7605.5</i>	-Khawr Bubiyan, N16.	29° 58.0' N 48° 03.6' E	Fl.(3)R. period 5s	10	3	5 PORT (A) R, beacon.	
29146.1 <i>D 7605.4</i>	--N17.	29° 58.6' N 48° 06.4' E	Q.W.	10	3	5 N. CARDINAL BY, beacon.	
29146.2 <i>D 7605.3</i>	--N19.	30° 00.0' N 48° 08.2' E	Fl.(3)+L.FI.Y.	10	3	5 SPECIAL Y, beacon.	
29176 <i>D 7573</i>	Al Kubr.	29° 04.2' N 48° 29.6' E	Fl.(2)W. period 10s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 7.3s	91	28	18 Lattice structure, black and white bands.	
	RACON		K(- • -)		18		(3 & 10cm)
29180 <i>D 7573.2</i>	-M35.	29° 04.8' N 48° 29.0' E	Q.W.			N. CARDINAL BY, beacon.	
29184 <i>D 7588</i>	Jazirat Auhuh.	29° 22.6' N 48° 26.5' E	Fl.(3)W. period 10s	75	23	5 White metal framework tower, black bands; 67.	
29184.3 <i>D 7589.52</i>	-No. 2.	29° 18.9' N 48° 24.2' E	V.Q.(6)+L.FI.W. period 10s			S. CARDINAL YB, beacon.	
29185 <i>D 7590</i>	Jazirat Faylakah, As Zawr, Boat Harbor, N. entrance, E. side.	29° 25.7' N 48° 16.3' E	Fl.R.				
29185.1 <i>D 7590.2</i>	---W. side.	29° 25.7' N 48° 16.3' E	Fl.G.				
29185.3 <i>D 7590.4</i>	--S. entrance, W. side.	29° 25.5' N 48° 16.2' E	Fl.R.				
29185.4 <i>D 7590.5</i>	---E. side.	29° 25.6' N 48° 16.3' E	Fl.G.				
29186 <i>D 7591</i>	-Ra' s Al Qihah, Ferry Harbor, N. breakwater.	29° 25.7' N 48° 15.9' E	Fl.R.				

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PERSIAN GULF							
29186.1 <i>D 7591.2</i>	--S. breakwater.	29° 25.6' N 48° 16.0' E	Fl.G.				
KHALIJ AL KUWAIT:							
29188 <i>D 7595</i>	-Beacon.	29° 25.0' N 48° 00.0' E	Q.W.R.	20 6	7		W. 180°-290°, R. elsewhere.
29192 <i>D 7595.5</i>	-Fasht al Hadiba.	29° 25.0' N 47° 58.0' E	Fl.(3)W. period 10s	20 6	8	Beacon.	
29196 <i>D 7596</i>	-Outer Entrance Channel Range, front.	29° 22.0' N 47° 56.0' E	Fl.Bu. period 2.5s	36 11	5		
29200 <i>D 7596.1</i>	--Rear, 808 meters 224° 30' from front.	29° 22.2' N 47° 55.9' E	Dir.Fl.W.R.G. period 2s		10		G. 222°-224°, W.-225°, R.- 227°.
29202 <i>D 7598.7</i>	-AVIATION LIGHT.	29° 22.1' N 47° 58.5' E	Aero.Q.W.			Radio mast; 1017.	
29209 <i>D 7599</i>	-Ash Shuwaykh, breakwater, head.	29° 21.4' N 47° 55.9' E	Fl.Y. period 3s	13 4	3		Dolphins close S marked by F.G. and F.R. lights. Berths marked by Q.G. and Q.R. lights.
29210 <i>D 7601</i>	-Ra' s Al Akaz.	29° 23.5' N 47° 56.2' E	Fl.W. period 3s	10 3		Black and yellow beacon.	
29211 <i>D 7602.9</i>	-Mina ad Dawhah.	29° 22.8' N 47° 48.0' E	Fl.(3)W. period 20s		15	White beacon.	
29212 <i>D 7594.4</i>	-Medina Island.	29° 24.0' N 47° 59.0' E	Fl.W. period 5s	18 5	8	Steel tower, black and white bands; 10.	
29216 <i>D 7594</i>	-Ras Ajuza.	29° 23.5' N 47° 59.8' E	Mo.(KHC)G. period 30s	98 30	10		Visible 020°-340°.
29220 <i>D 7592</i>	-Ra's al Ard.	29° 21.1' N 48° 06.1' E	Fl.W. period 5s fl. 0.2s, ec. 4.8s	86 26	16	Black metal framework tower, white bands; 73.	
	-RACON		Q(- - -)		22		(3 & 10 cm)
29220.2 <i>D 7593</i>	-Al Bida Marina, S. breakwater.	29° 19.3' N 48° 05.6' E	Fl.R.				
29220.4 <i>D 7593.2</i>	--N. breakwater.	29° 19.4' N 48° 05.6' E	Fl.G.				
29221 <i>D 7593.4</i>	-Ra' s Al Ard, Ferry Harbor, E. breakwater.	29° 21.0' N 48° 05.8' E	Fl.R.				
29221.4 <i>D 7593.6</i>	-Ash-Shaab Marina, E. breakwater.	29° 20.5' N 48° 03.0' E	Fl.R.				
29221.6 <i>D 7593.7</i>	---W. breakwater.	29° 20.6' N 48° 02.9' E	Fl.G.				
29222 <i>D 7593.8</i>	-Al Kuwait Marina, S. breakwater.	29° 22.6' N 48° 00.3' E	Fl.R.				
29222.2 <i>D 7593.9</i>	--N. breakwater.	29° 22.6' N 48° 00.3' E	Fl.G.				
29224 <i>D 7603</i>	-Mashjan.	29° 29.0' N 48° 15.0' E	Q.(4)W. period 30s	35 11	10	Black framework steel tower; 35.	
29226 <i>D 7603.3</i>	--Off W. end.	29° 29.0' N 48° 14.3' E	Q.(9)W. period 15s	10 3	5	W. CARDINAL YBY, beacon.	
29228 <i>D 7604</i>	--Maskan Reef.	29° 30.0' N 48° 14.7' E	Q.W.	16 5	5	N. CARDINAL BY, beacon, topmark.	
29232 <i>D 7570</i>	-Ahmadi Buoy.	28° 56.2' N 48° 53.0' E	L.Fl.W. period 10s			SAFE WATER RW, pillar, topmark.	Radar reflector.
	-RACON		M(- -)				(3 & 10cm)

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PERSIAN GULF							
29236 D 7571	-Mudayrah Reef.	28° 56.2' N 48° 46.2' E	Fl.R. period 5s	35 11	11	Metal tripod, white pedestal, red bands.	Radar reflector.
29240 D 7572	-Taylor Rock Beacon.	29° 01.6' N 48° 34.6' E	Q.(6)W. period 10s	35 11	7	Metal tripod, white pedestal, black bands.	Radar reflector.
29246 D 7580	Mina' Abdullah Range, front.	29° 00.1' N 48° 09.6' E	F.W.			Beacon.	Occasional.
29246.5 D 7580.1	-Rear 730 meters 247° from front.	29° 00.0' N 48° 09.3' E	F.W.			Beacon.	Occasional.
29248 D 7580.4	-S. jetty.	29° 01.0' N 48° 10.0' E	F.R.		1		
29248.1 D 7580.3	-N. jetty.	29° 00.9' N 48° 09.6' E	F.G.				
29249 D 7582.7	Mina Ash Shu'aybah, Petroleum Products Pier.	29° 02.5' N 48° 10.4' E	Fl.R. period 5s				Horn: 1 bl. ev. 20s (bl. 2s, si. 18s).
29249.1 D 7582.6	-N. head.	29° 02.6' N 48° 10.3' E	Fl.R. period 3s	16 5	4	Dolphin.	
29249.2 D 7582.8	-S. head.	29° 02.3' N 48° 10.6' E	Fl.G. period 3s	16 5	4	Dolphin.	
29252 D 7582.4	-N. breakwater, head.	29° 02.7' N 48° 09.9' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	29 9	4	Metal mast; 13.	
29252.1 D 7582	-S. breakwater, E. head.	29° 02.6' N 48° 10.0' E	Fl.R. period 3s	20 6	4		R. light 51m on control tower 60 meters W. Fl.R. 4M near Berth "2" 260 meters SW.
29252.2 D 7582.2	--W. head.	29° 02.6' N 48° 10.0' E	F.R.	16 5	4		
29252.3 D 7582.5	-Barge Quay.	29° 02.3' N 48° 09.8' E	2 F.G. (vert.)		3		
29264 D 7585.6	-Mina'al Ahmadi oil pier, S. head.	29° 03.8' N 48° 09.8' E	F.W.				3 R. lights on S. end of pier. 3 R. lights on N. end of pier 0.6 mile NW. Diaphone: 1 bl. ev. 60s (bl. 3s, si. 57s).
29265 D 7586	-K.O.C. Boat Harbor, detached breakwater, S. head.	29° 03.6' N 48° 09.4' E	Fl.G. period 5s			Green beacon.	
29266 D 7586.2	--N. head.	29° 03.7' N 48° 09.4' E	Fl.R. period 5s			Red beacon.	
29268 D 7586.7	-Bitumen pier, head.	29° 04.1' N 48° 09.4' E	3 Fl.G. period 10s				Lights in shape of a triangle at N. and S. ends of pier. Horn: 1 bl. ev. 20s (bl. 2s, si. 18s).
29269 D 7587	-Al Fuhaihil Marina, E. breakwater.	29° 05.4' N 48° 08.5' E	Fl.R.				
29269.1 D 7587.2	W. breakwater.	29° 05.4' N 48° 08.4' E	Fl.G.				
29270 D 7587.62	Abu Hulayfah, N. pier, N. head.	29° 07.9' N 48° 08.9' E	F.R.				
29270.1 D 7587.63	-S. head.	29° 07.5' N 48° 09.1' E	F.R.				F.R. 100 meters S. Diaphone: 3 bl. ev. 60s. (bl. 2.5s, si. 3s, bl. 2.5s, si. 3s, bl. 2.5s, si. 46.5s). 225 meters N.
29271 D 7585	Mina Al Ahmadi Sea Island Terminal.	29° 07.0' N 48° 17.5' E	Mo.(U)W. period 15s				Diaphone: 2 bl. ev. 90s.
			Mo.(U)R. period 15s				

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PERSIAN GULF							
29271.1 <i>D 7585.1</i>	-N. end.	29° 07.1' N 48° 17.4' E	Fl.W.R.				
29271.2 <i>D 7585.15</i>	-S. end.	29° 06.9' N 48° 17.6' E	Fl.W.				
			Mo.(U)W. period 15s				
29273 <i>D 7587.8</i>	Qit'at Funaitis.	29° 13.7' N 48° 07.0' E	Q.W.	10 3	5	N. CARDINAL BY, beacon.	
29276 <i>D 7603.8</i>	Jazirat Faylakah, M26.	29° 29.5' N 48° 17.7' E	Q.W.			N. CARDINAL BY, beacon.	
29276.6 <i>D 7589.7</i>	-M27.	29° 27.5' N 48° 22.6' E	Fl.(3)W. period 10s	10 3	5	E. CARDINAL BYB, beacon.	
29276.8 <i>D 7589.8</i>	-M28.	29° 31.2' N 48° 36.2' E	Fl.(3)+L.Fl.Y.	16 5	10	Yellow pile structure.	
29278 <i>D 7589</i>	-No. M31, off SW. end.	29° 25.2' N 48° 15.7' E	V.Q.(6)+L.Fl.W. period 10s			S. CARDINAL YB, beacon.	
29280 <i>D 7589.4</i>	-M30, off SE. end.	29° 22.6' N 48° 23.4' E	V.Q.(6)+L.Fl.W. period 10s			S. CARDINAL YB, beacon.	
29284 <i>D 7589.6</i>	-No. M29, off E. end.	29° 23.7' N 48° 28.1' E	V.Q.(3)W. period 5s			E. CARDINAL BYB, beacon.	
29285 <i>D 7603.5</i>	Al Wakir, M22.	29° 28.4' N 48° 16.3' E	Fl.(3)+L.Fl.Y.	10 3	5	Yellow beacon.	
29285.2 <i>D 7603.6</i>	-M21.	29° 28.9' N 48° 16.9' E	Fl.(3)+L.Fl.Y.	10 3	5	Yellow beacon.	
29288 <i>D 7607.8</i>	Khawr as Sabiyan, No. 2.	29° 32.7' N 48° 14.6' E	Fl.(3)R. period 5s			Red beacon.	Several lights mark Khawr as Sabiyan.
29292 <i>D 7579</i>	Qitat Urayfiyan.	29° 00.0' N 48° 16.0' E	Q.(3)W. period 10s			E. CARDINAL BYB.	
29296 <i>D 7578.2</i>	Ras al Qulay'ah, M40.	28° 56.0' N 48° 21.8' E	Q.(3)W. period 10s			E. CARDINAL BYB.	
29296.1 <i>D 7578.4</i>	-M41.	28° 54.2' N 48° 16.2' E	Q.W.			N. CARDINAL BY, beacon	Occasional.
29300 <i>D 7578</i>	-M39.	28° 55.2' N 48° 20.0' E	Fl.(2)W. period 15s			ISOLATED DANGER BRB.	
29301 <i>D 7577.4</i>	Kuwait Naval Base, W. breakwater, head.	28° 51.7' N 48° 17.2' E	Fl.G. period 2s		5		
29301.1 <i>D 7577.3</i>	-E. breakwater, head.	28° 51.7' N 48° 17.3' E	Fl.(3)R. period 10s		10		Horn: 1 bl. ev. 20s.
29301.5 <i>D 7577.2</i>	-Beacon No. 7.	28° 51.9' N 48° 17.3' E	Fl.G. period 3s			Beacon with green square daymark.	
29302	-L1A.	28° 52.1' N 48° 17.0' E	Fl.W.R.G.				G. 264° -266°, W.-267°, R.- 269°.
29303.2 <i>D 7575.655</i>	Dawahat Az Zawr, S1.	28° 51.1' N 48° 17.2' E	Q.W.			Black beacon, yellow base.	
29303.3 <i>D 7575.66</i>	-S2.	28° 50.8' N 48° 17.3' E	V.Q.(6)+L.Fl.W. period 10s			Yellow beacon, black base.	
29303.4 <i>D 7575.665</i>	-S3.	28° 50.6' N 48° 18.0' E	V.Q.(6)+L.Fl.W. period 10s			Yellow beacon, black base.	
29303.5 <i>D 7575.67</i>	-S4.	28° 50.2' N 48° 18.7' E	V.Q.(6)+L.Fl.W. period 10s			Yellow beacon, black base.	
29303.6 <i>D 7575.675</i>	-S5.	28° 48.2' N 48° 20.2' E	Q.W.			Black beacon, yellow base.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PERSIAN GULF							
29303.7 <i>D 7575.68</i>	-S7.	28° 45.7' N 48° 20.9' E	Q.W.			Black beacon, yellow base.	
29304 <i>D 7575.6</i>	Raz az Zawr.	28° 48.0' N 48° 26.0' E	Q.(3)W. period 10s		5	E. CARDINAL BYB, pile.	
29308 <i>D 7576</i>	Mina Su'ud, jetty, head.	28° 41.5' N 48° 23.4' E	5 Mo.(U)G. period 15s				Lights mark pier head. Horn: 4 bl. ev. 60s.
29310 <i>D 7575.4</i>	Az Zawr Beacon.	28° 44.7' N 48° 24.2' E	Q.(6)+L.FI.W. period 15s	10 3	2	S. CARDINAL YB, beacon, topmark.	
29312 <i>D 7575</i>	Ra's Az Zawr.	28° 44.5' N 48° 23.7' E	Oc.W.R. period 5s		5	White tower, red stripes; 23.	W. 155° -245°, R.-265°, W.- 355°.
29312.1 <i>D 7575.7</i>	-No. 1.	28° 45.2' N 48° 24.8' E	Q.(3)W. period 10s	16 5	5	E. CARDINAL BYB, beacon, topmark.	
29312.2 <i>D 7575.75</i>	-No. 2.	28° 45.6' N 48° 25.0' E	V.Q.(3)W. period 5s	16 5	5	E. CARDINAL BYB, beacon, topmark.	
29312.3 <i>D 7575.8</i>	-No. 3.	28° 45.9' N 48° 24.8' E	Q.W.	16 5	5	N. CARDINAL BY, beacon, topmark.	
29312.4 <i>D 7575.85</i>	-No. 4.	28° 46.0' N 48° 24.4' E	V.Q.W.	16 5	5	N. CARDINAL BY, beacon, topmark.	
29312.5 <i>D 7575.9</i>	-No. 5.	28° 45.7' N 48° 23.7' E	Q.(9)W. period 15s	16 5	5	W. CARDINAL YBY, beacon, topmark.	
29312.6 <i>D 7575.65</i>	-No. 136.	28° 47.7' N 48° 23.3' E	FI.(2)W. period 5s			ISOLATED DANGER BRB, beacon.	
29313 <i>D 7575.5</i>	--Offshore structure.	28° 46.0' N 48° 26.0' E	FI.(4)W. period 15s	19 6	5	Metal structure.	
29316 <i>D 7569</i>	Jazirat Quaru.	28° 49.0' N 48° 47.0' E	FI.W. period 10s	45 14	5		
29320 <i>D 7569.2</i>	-NNW.	28° 50.2' N 48° 45.8' E	Q.W.			N. CARDINAL BY, beacon.	
29324 <i>D 7568</i>	Umm Al Maradim.	28° 40.8' N 48° 39.1' E	FI.(2)W. period 15s	75 23	10		
29328 <i>D 7568.2</i>	-NW.	28° 42.9' N 48° 38.0' E	Q.W.			N. CARDINAL BY, beacon.	
29330 <i>D 7568.4</i>	Qit'at al Bunayyah.	28° 37.1' N 48° 25.7' E	Q.W.		5	N. CARDINAL BY, beacon.	
29332	<i>Ras Al Khafji Approach Buoy No. 1.</i>	28° 36.0' N 49° 10.0' E	Iso.W. period 10s			SAFE WATER RW, pillar, topmark.	Several lighted buoys are shown westward toward Ras al Khafji.
29336 <i>D 7500</i>	Khafji Terminal, control platform.	28° 26.9' N 48° 35.8' E	FI.R. period 10s	52 16	10	Control platform.	Radar reflector.
29340 <i>D 7505</i>	-Range, front.	28° 24.6' N 48° 31.2' E	F.R.	52 16	4	Triangular daymark.	
29344 <i>D 7505.1</i>	--Rear, 335 meters 234° 42' from front.	28° 24.6' N 48° 31.1' E	F.R.	75 23	7	Triangular daymark.	
29344.5 <i>D 7505.4</i>	-N. side of entrance.	28° 25.1' N 48° 31.5' E	FI.G. period 10s				
29346 <i>D 7457.6</i>	Fasht Buldani, FBN.	28° 16.9' N 49° 05.0' E	FI.W. period 10s				Radar reflector.
	RACON		Q(- - • -)				(3 & 10cm)
29347 <i>D 7457.3</i>	-FBE.	28° 07.1' N 49° 10.3' E	FI.G. period 10s				Radar reflector.
29348 <i>D 7457</i>	-FBS.	27° 54.1' N 49° 20.0' E	FI.W. period 10s				Radar reflector.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PERSIAN GULF							
29352 D 7462	Bandar Al Mish'ab.	28° 06.8' N 48° 38.0' E	Oc.W. period 2.3s			Silo; 151.	Oc.W. 2.3s lights shown from 5 silos.
			F.R.				F.R. lights shown from floodlit towers.
RA'S AL MISHA'AB:							
29364 D 7455	-Jazireh-ye Farsi.	27° 59.4' N 50° 10.3' E	Fl.W. period 15s		92 28	16 Black framework structure, white band; 75.	
	-RACON		M(- -)			24	
29368 D 7454	-Al Arabiyah.	27° 47.0' N 50° 10.0' E	Fl.(2)W. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s		75 23	7 Red and white metal framework tower.	Fl.R. 2s 6m 3M marks jetty head 102 meters W.
29369 D 7452	-Range, front.	27° 46.8' N 48° 52.4' E	Iso.W. period 2s				Red metal pile white bands.
29370 D 7452.1	--Rear, 390 meters 270° from front.	27° 46.8' N 48° 52.2' E	Iso.W. period 4s				Red metal pile, white bands.
29372 D 7456	Harqus.	27° 56.0' N 49° 41.0' E	Fl.W. period 10s		29 9	8 Beacon; 13.	
29372.1 D 7456.2	-W. Beacon.	27° 56.1' N 49° 40.5' E	Fl.W. period 20s		49 15	8 Yellow framework tower; 39.	
29376 D 7447	Al Qiran.	27° 43.0' N 49° 49.5' E	Fl.W. period 10s		13 4	8 Metal tripod.	Reported Fl.(2)W. 10s 4m 8M (1985).
29384 D 7450	Beacon TE-1.	27° 45.3' N 49° 24.2' E	Fl.G. period 10s				Channel marked by beacons.
	RACON		K(- • -)			18	
29388 D 7449	-NW. Beacon.	27° 42.8' N 49° 21.5' E	Fl.W. period 7s			3	
29392 D 7450.4	-SW. Beacon.	27° 43.8' N 49° 11.7' E	Fl.W. period 7s			2	
29396 D 7446	Al Qurayyin.	27° 38.8' N 49° 49.2' E	Fl.G. period 10s		13 4	2 Metal tripod.	Reported Fl.(2)G. 10s 4m 8M (1985).
29400 D 7445	Janah.	27° 22.0' N 49° 53.8' E	Fl.W. period 10s		13 4	8 Metal tripod.	
29402 D 7435	Essa Reef.	27° 02.0' N 49° 56.0' E	Fl.(2)W. period 10s				Metal column; 26.
29404 D 7436	Ra's al Ghar Range, front.	26° 52.5' N 49° 50.9' E	Iso.R.		13 4	4	Radar reflector.
29408 D 7436.1	-Rear, 300 meters 214° from front.	26° 52.4' N 49° 50.8' E	Iso.R.		13 4	6	Radar reflector.
29410 D 7434.7	Ra's al Ju'aymah, entrance.	26° 51.9' N 49° 54.5' E	Fl.G. period 5s				
29416 D 7443.1	Jazirat Al Jurayd, radar tower.	27° 11.8' N 49° 57.5' E	F.R.			Tower.	
	RACON		D(- • •)				
AL JUBAYL:							
29418 D 7437	-Small boat harbor.	26° 59.7' N 49° 40.4' E	Fl.G. period 3s			5	
29419 D 7437.5	-Fishing Harbor, breakwater, head.	27° 00.7' N 49° 40.8' E	Fl.R. period 4.5s			2 Pole.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PERSIAN GULF							
29420 D 7438	-S. breakwater, S. head.	27° 00.6' N 49° 40.9' E	Fl.G. period 2s		5	Pole; 39.	
29424 D 7438.4	--N. head.	27° 01.8' N 49° 42.0' E	Fl.W.R. period 2s		12	Metal framework tower.	Horn: Mo.(A).
29428 D 7438.6	-E. breakwater, S. head.	27° 02.1' N 49° 42.5' E	Fl.W.G. period 3s		4	Metal post.	G. 201° 54' -080° 48' , W.- 201° 54' .
29432 D 7438.8	--N. head.	27° 04.1' N 49° 41.8' E	Fl.W.R. period 4s		4	White metal tower, red bands.	W. 140° 12' -225° , R.-310° , W.-338° 18' ,R.-019° 48' , W.-092° , R.-140° 12' .
29440 D 7439	-N. Breakwater, S. head.	27° 04.3' N 49° 42.2' E	Fl.W.G. period 2s	29 9	3	White metal tower, green bands.	W. 100° 12' -306° 42' , G.- 100° 12' .
29444 D 7439.4	-O.S.T.T. Pier, S. head.	27° 04.3' N 49° 43.6' E	Q.(6)+L.Fl.W. period 15s	36 11			
29448 D 7439.5	--Center.	27° 04.8' N 49° 43.3' E	Q.R.	42 13		Gray pole.	Horn: Mo.(U).
29452 D 7439.6	--N. head.	27° 05.3' N 49° 43.0' E	Fl.(2)R. period 5s	36 11	1	Gray pole.	
29460 D 7439.8	-Causeway.	27° 04.8' N 49° 40.1' E	Fl.Y. period 3s	16 5	1	Gray pole.	
29464 D 7441.6	-King Abdul Aziz Naval Base, N. breakwater, E1.	26° 58.9' N 49° 42.0' E	Fl.(2)G. period 10s		3	Green post, green triangular daymark, point up.	
29468 D 7441.4	--Detached breakwater, N. head, E2.	26° 58.8' N 49° 42.2' E	Fl.(2)R. period 10s		3	Red post, red square daymark.	
29472 D 7441.5	--S. head, E3.	26° 58.3' N 49° 42.5' E	Fl.(3)G. period 10s		3	Green post, green triangular daymark, point up.	
29476 D 7441	--Range, front, RL2.	26° 57.9' N 49° 41.6' E	Q.R.		7		
29480 D 7441.1	---Rear, RL1, 400 meters 203° from front.	26° 57.7' N 49° 41.5' E	Oc.R. period 8s		7		
29484 D 7442.5	--Range, front, RL4.	26° 57.1' N 49° 42.4' E	Fl.Y. period 2s		5		
29488 D 7442.51	---Rear, RL3, 600 meters 203° from front.	26° 56.8' N 49° 42.2' E	Oc.Y. period 5s		5		
JU'AYMAH APPROACH:							
29500 D 7421	-Ju'aymah Buoy.	27° 12.6' N 50° 38.9' E	L.Fl.W. period 10s			SAFE WATER RW, pillar, topmark.	
	-RACON		Z(- - • •)				(3 & 10cm)
29504 D 7425	Ju'aymah, No. 1.	27° 02.0' N 50° 08.0' E	Q.(3)W. period 10s			Black and white beacon.	Radar reflector.
29508	Hair Abu Athama Shoal Buoy.	26° 53.0' N 50° 58.0' E	Fl.(2)W. period 10s			ISOLATED DANGER BRB, pillar, topmark.	
29511 D 7420	Pipe.	27° 16.7' N 51° 03.0' E	Fl.R. period 4s		5	Black metal pole, orange and white bands.	
RA'S AT TANNURA APPROACH:							
29520	-Ras Tannurah Buoy.	27° 06.1' N 50° 57.5' E	L.Fl.W. period 10s			SAFE WATER RW, pillar, topmark.	Radar reflector.
	-RACON		K(- • -) period 72s		16		(3 & 10cm)

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PERSIAN GULF							
29532 D 7424	-Garibah.	26° 59.5' N 50° 13.0' E	Q.(6)+L.FI.W. period 15s	30 9	10	S. CARDINAL YB, beacon, topmark.	
	-RACON		B(-•••) period 72s		20		
29533 D 7434.6	-Ras al Ju'aymah, LPG Terminal Range, front.	26° 51.8' N 50° 02.5' E	FI.R. period 10s				
29533.1 D 7434.61	--Rear, 300 meters 244° 42' from front.	26° 51.7' N 50° 02.3' E	FI.G. period 10s				
29534 D 7427	-RTN beacon.	26° 42.0' N 50° 10.1' E	FI.W. period 7s	29 9	5	Red pile.	Radar reflector.
29535 D 7428.6	-S. on shallow patch.	26° 40.8' N 50° 09.5' E	FI.W. period 10s			Pile structure.	
29536 D 7428	-Range, front.	26° 39.0' N 50° 10.0' E	Q.R.	20 6		Red 4-pile steel beacon, black band, white round topmark.	Visible 220° 42' -348° 42' .
29540 D 7428.1	--Rear, 310 meters 284° 40' from front.	26° 39.4' N 50° 09.5' E	Q.G.	26 8		Red 4-pile steel beacon, black band, white round topmark.	Visible 220° 42' -348° 42' .
29544 D 7428.8	-Range, front.	26° 38.0' N 50° 10.0' E	FR.			Black wooden framework tower, white stripe; 12.	
29548 D 7428.81	--Rear, 213 meters 271° 45' from front.	26° 38.4' N 50° 09.6' E	FG.			Aluminum tank marked with black 4.	
29552 D 7429.8	-North pier, N. head.	26° 39.1' N 50° 10.0' E	FR.			Tower.	
29556 D 7429.6	--Beacon, center of pier.	26° 38.9' N 50° 10.0' E	FI.R. period 10s				F.R. on same structure. Radar reflector.
29560 D 7429.5	--Beacon, S. head.	26° 38.8' N 50° 10.0' E	FI.R. period 10s				Radar reflector.
29564 D 7429.3	-South pier, N. head.	26° 38.3' N 50° 10.2' E	FI.Y. period 10s				
29568 D 7429.2	--Beacon, S. head.	26° 38.0' N 50° 10.0' E	FI.Y. period 10s				
29572 D 7428.4	-Sea Island, No. 15, N. end.	26° 40.5' N 50° 10.9' E	FR.	29 9		Dolphin.	F.R. lights on crane 1.3 miles S.
29573 D 7428.45	--No. 1, S. end.	26° 39.5' N 50° 10.9' E	FR.	29 9		Dolphin.	
29576 D 7429	--S. end.	26° 37.6' N 50° 09.8' E	FI.W. period 10s fl. 1s, ec. 9s			Black steel framework, white band; 50.	1 FI.R. light on tower close N.
AD DAMMAM:							
29580 D 7431	-Abd al Aziz Port, Najwah Shoal.	26° 34.0' N 50° 15.0' E	FI.W.R. period 10s	49 15	W. 10 R. 7	White framework tower, red bands.	W. 015° -206° , R.-015° .
29584 D 7432	-No. 1 Range, front.	26° 30.0' N 50° 14.0' E	Q.W.	46 14	7	White framework tower, red bands.	Visible 131° -145° .
29588 D 7432.1	--Rear, No. 2, 370 meters 138° from front.	26° 29.8' N 50° 12.7' E	FI.W. period 4s	82 25	7	White framework tower, red bands.	Visible 131° -145° .
			FI.(2)W. period 5s				
29592 D 7432.4	-W. mole, NE. corner.	26° 31.0' N 50° 12.0' E	FI.G. period 5s			Green and white pillar.	
29596 D 7432.8	--Berth 38.	26° 30.0' N 50° 11.0' E	FI.W. period 4s			Green and white beacon.	
29600 D 7433	-Center mole, NW. corner.	26° 31.0' N 50° 12.0' E	FI.(2)W.R.G. period 9s			Green and white beacon.	W. 149° -256° , R.-042° , G.- 149° .

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PERSIAN GULF							
29604 D 7433.2	--NE. corner.	26° 31.0' N 50° 12.0' E	Fl.W. period 4s			Green and white beacon.	
29608 D 7433.4	-E. mole, NW. corner.	26° 30.0' N 50° 12.0' E	Fl.(4)W.R.G. period 10s			Green and white beacon.	W. 157° -260°, R.-072°, G.-157°.
29612 D 7433.5	--NE. corner.	26° 30.0' N 50° 12.7' E	Fl.(2)G. period 10s			Green and white beacon.	
29616 D 7434.4	-Small craft harbor pier.	26° 29.0' N 50° 12.0' E	Fl.(3)W. period 10s			Green and white beacon.	
29616.4 D 7434.25	--No. 4.	26° 29.3' N 50° 12.7' E	Fl.(2)R. period 4s			Red beacon.	
29616.6 D 7434.3	--No. 6.	26° 29.0' N 50° 12.7' E	Fl.(2)R. period 10s			Red beacon.	
29620	<i>Five Fathom Patch Lighted Buoy.</i>	26° 31.0' N 51° 18.0' E	Fl.(2)W. period 12s			ISOLATED DANGER BRB, pillar, topmark.	
29636 D 7398	Fasht ad-Dibal.	26° 18.0' N 50° 58.0' E	Q.W.	12 4	7	Steel structure on concrete base.	
29640 D 7398.4	Fasht ad-Dibal, E. side.	26° 16.8' N 50° 58.7' E	Fl.(2)W. period 10s	13 4	7	Metal structure on concrete base.	
29642 D 7399.5	Jaww, SE	25° 58.5' N 50° 37.7' E	F.R.			Red and white beacon.	
29644 D 7413	Fasht Al Jarim.	26° 32.5' N 50° 32.4' E	Fl.W. period 5s		5		
29648 D 7414.7	-Khor Fasht, reef, NE. end.	26° 21.1' N 50° 27.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	12 4	7	Steel housing on concrete base.	
29649 D 7415	-Azizayah Channel.	26° 16.6' N 50° 20.9' E	Fl.G. period 5s			Red and white beacon.	
29650 D 7415.2	--Range, front.	26° 16.3' N 50° 20.5' E	Q.W.			Red and white beacon.	
29650.5 D 7415.21	---Rear, 250 meters 248° from front.	26° 16.2' N 50° 20.4' E	Fl.W. period 3s	16 5		Red and white beacon.	
29656 D 7417	Saudi Arabia-Bahrain Causeway.	26° 13.2' N 50° 13.6' E	F.G.	23 7	5		R. lights on piles east side of spans, G. lights on piles west side of spans, visible 20° either side of a line at right angles to the bridge span. The piles are floodlit from above.
29660 D 7417.2	-Bridge No. 3, W. side.	26° 12.1' N 50° 17.2' E	Oc.G. period 5s	16 5	5		Shown from either side. E. side marked by Oc.R. 5s on either side.
29664 D 7417.3	-Bridge No. 4, W. side.	26° 10.9' N 50° 21.1' E	F.G.	23 7	5		Shown from either side. E. side marked by F.R. on either side.
29668 D 7417.4	-Bridge No. 5, W. side.	26° 10.1' N 50° 25.7' E	F.G.	23 7	5		Shown from either side. E. side marked by F.R. on either side.
29672 D 7417.5	-Channel beacon, No. 1.	26° 12.9' N 50° 17.5' E	Fl.G. period 4s	16 5	5		Radar reflector.
29676 D 7417.6	-Channel beacon, No. 2.	26° 12.9' N 50° 17.6' E	Fl.R. period 4s	16 5	5		Radar reflector.
29680 D 7417.7	-Channel beacon, No. 3.	26° 12.5' N 50° 17.3' E	Fl.G. period 8s	16 5	5		Radar reflector.
29684 D 7417.8	-Channel beacon, No. 4.	26° 12.5' N 50° 17.4' E	Fl.R. period 8s	16 5	5		Radar reflector.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PERSIAN GULF							
29688 D 7417.9	-Channel beacon, No. 5.	26° 11.7' N 50° 17.0' E	Fl.G. period 8s	16	5		Radar reflector.
29692 D 7418	-Channel beacon, No. 6.	26° 11.7' N 50° 17.1' E	Fl.R. period 8s	16	5		Radar reflector.
29696 D 7418.2	-Channel beacon, No. 7.	26° 11.3' N 50° 16.9' E	Fl.G. period 4s	16	5		Radar reflector.
29700 D 7418.3	-Channel beacon, No. 8.	26° 11.3' N 50° 17.0' E	Fl.R. period 4s	16	5		Radar reflector.
29703.5 D 7419.2	-Beacon No. 21.	21° 51.8' N 50° 08.8' E	Fl.G. period 5s				
29704 D 7399	Katah ad Jaradeh.	26° 10.0' N 50° 54.0' E	Fl.W. period 5s	10	8	Beacon.	
MINA SALMAN:							
29707 D 7400.9	-Kawkab Umm Al Sawali, water tower.	26° 13.3' N 50° 40.9' E	Fl.R.	148	10		
29709 D 7400.95	-Khalifa Port, breakwater.	26° 10.7' N 50° 42.8' E	Fl.G.	20	5	Post.	
29710	-Sitrah Buoy.	26° 10.4' N 50° 43.3' E	Q.(6)+L.Fl.W. period 15s			S. CARDINAL YB, pillar, topmark.	AIS.
	-RACON		X(- • • -)				(3 & 10cm)
29712 D 7402	S. Shoal beacon.	26° 09.5' N 50° 41.8' E	Fl.(2)R. period 4s			Pile.	
29716 D 7402.4	--N. Range beacon.	26° 10.1' N 50° 40.0' E	Fl.R.G. period 2.5s	16	5	Gray framework structure.	G. 315° -135° , R.-315° .
29720 D 7402.5	--S. Range beacon.	26° 09.3' N 50° 41.0' E	Fl.R. period 4s	20	6	Black pile structure; 17.	
29724 D 7401	-G.I.I.C. Range, front.	26° 11.6' N 50° 40.9' E	Q.W.	26	8	6 Framework tower, black triangular daymark, white stripes, point up.	Visible 327° 48' -337° 48' .
29728 D 7401.1	--Rear, 190 meters 332° 52' from front.	26° 11.7' N 50° 40.9' E	Q.(2)W. period 2s	49	15	6 Framework tower, white triangular daymark, black stripes, point up.	Visible 327° 48' -337° 48' .
29732 D 7409	-Jetty, S. head.	26° 07.0' N 50° 38.0' E	Fl.G.	13	1	Post.	
29736 D 7409.2	-S. breakwater, head.	26° 07.2' N 50° 38.1' E	2 Fl.R. (vert.)				
29737 D 7409.5	-Bahrain Yacht Club.	26° 06.8' N 50° 38.0' E	Q.W.	33	5		Q.G., Fl.G. 2s, Q.R. and Fl.R. 2s lights mark entrance.
29738 D 7400	-Hayyan.	26° 03.2' N 50° 39.0' E	Fl.W. period 3s	10	7	PORT (A) R, beacon.	
29738.5 D 7399.3	-Umm Jalid.	26° 01.3' N 50° 46.5' E	Fl.W. period 5s	10	3	PORT (A) R, beacon.	
29740 D 7404	-Range, front.	26° 11.0' N 50° 39.0' E	Q.W.	16	5	Steel tripod, silver triangular daymark, point up; 15.	
29744 D 7404.1	--Rear, 370 meters 323° 43' from front.	26° 11.2' N 50° 39.3' E	I.Q.W. period 8s	29	9	Steel tripod, double cone daymark, points together; 26.	
29746 D 7404.3	-Diwan Beacon.	26° 10.8' N 50° 39.7' E	Fl.G. period 2.5s	26	8	Green pile.	
29748 D 7404.5	-Range, front.	26° 11.7' N 50° 39.5' E	Q.W.	16	5	Steel tripod, silver triangular daymark, point up; 15.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PERSIAN GULF							
29752 D 7404.51	--Rear, 835 meters 356° 45' from front.	26° 11.2' N 50° 39.5' E	I.Q.W. period 8s	30 9		Steel tripod, silver triangle point down, between 2 red smaller triangles point up; 28.	
29754 D 7404.8	-Triad.	26° 11.1' N 50° 39.4' E	Q.R.	23 7	7	Red pile.	
29756 D 7405	-Range, front.	26° 11.2' N 50° 39.7' E	Q.W.	15 5		Dolphin, white triangular daymark, point up.	
29760 D 7405.1	--Rear, 106° 53' from front.	26° 11.2' N 50° 39.9' E	I.Q.W. period 8s	30 9		Post, white triangular daymark, point down.	
29764 D 7406	--287° 03' .	26° 12.1' N 50° 36.6' E	Dir.V.Q.W.R.G.	137 42		On flour mill silo.	G. 283° 54' -286° 42' , W.-287° 30' , R.-290° 12' .
29768 D 7407	Al Manamah, marina.	26° 14.3' N 50° 36.0' E	Fl.R.				Fl.R. 3s and Fl.G. 6s on breakwater 0.2 mile S.
29769 D 7407.6	Al Muharraq, boat harbor.	26° 14.2' N 50° 36.9' E	Fl.G. period 3s			Green post.	
29769.5 D 7407.7	--W. side of entrance.	26° 14.3' N 50° 36.7' E	Fl.R. period 10s			Red post.	
29772 D 7411.2	-Customs Pier, head.	26° 14.3' N 50° 34.3' E	F.W.	13 4			
29776 D 7410	-Ra's Zurawin.	26° 15.3' N 50° 33.5' E	Fl.R. period 2s	20 6	4	Metal structure on white base.	
29792 D 7395	Ra's Rakan.	25° 11.9' N 50° 13.3' E	Fl.W. period 5s fl. 1s, ec. 4s	45 14	18	Metal framework tower on pile; 45.	
29794 D 7394.5	Ra's Umm Hasah.	26° 06.0' N 51° 21.5' E	V.Q.(3)W. period 5s	39 12	10	White beacon.	
29796 D 7393.881	Ras Laffan, N. breakwater, head, RB1.	25° 55.6' N 51° 39.5' E	Q.G.	52 16	6	Beacon; 30.	
29796.03 D 7393.892	--Spur, SB2.	25° 55.8' N 51° 38.4' E	Fl.W. period 5s	39 12	6	Beacon; 23.	
29796.05 D 7393.885	--Elbow, RB5.	25° 56.5' N 51° 37.6' E	Fl.W. period 2s	52 16	6	Beacon; 30.	Visible 090° -300° .
29796.1 D 7393.882	-Detached breakwater, N. head, RB2.	25° 55.2' N 51° 39.2' E	Fl.R. period 2s	49 15	6	Beacon; 30.	
29796.15 D 7393.883	--S. head, RB3.	25° 54.9' N 51° 39.3' E	Fl.G. period 3s	49 15	6	Beacon; 30.	
29796.17 D 7393.891	-S. breakwater, head, SB1.	25° 54.6' N 51° 39.2' E	Fl.R. period 3s	43 13	6	Beacon; 23.	
29796.2 D 7393.884	--Spur, RB4.	25° 54.5' N 51° 39.5' E	Fl.R. period 2s	46 14	6	Beacon; 30.	
29796.25 D 7393.886	--Elbow, RB6.	25° 54.0' N 51° 39.6' E	Fl.W. period 2s	52 16	6	Beacon; 30.	
29796.3 D 7393.887	--RB7.	25° 53.4' N 51° 38.5' E	Fl.W. period 2s	49 15	6	Beacon; 30.	Visible 240° -060° .
29796.35 D 7393.975	-Doha Dock, head, JB5.	25° 55.8' N 51° 37.3' E	Q.G.	39 12	3	Beacon; 16.	
29796.4 D 7393.893	-Wakra Dock, Liquid Products Berth, breakwater, head, SB3.	25° 55.0' N 51° 38.2' E	Oc.G. period 3s lt. 2s, ec. 1s	43 13	6	Beacon; 23.	
29796.45 D 7393.894	---Elbow, SB4.	25° 55.4' N 51° 38.0' E	Oc.W. period 3s lt. 2s, ec. 1s	43 13	6	Beacon; 23.	
29796.46 D 7393.895	---SB5.	25° 55.5' N 51° 37.5' E	Iso.R. period 3s	33 10	6	Beacon; 23.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PERSIAN GULF							
29796.47 <i>D 7393.898</i>	--Spur, SB8.	25° 54.9' N 51° 37.0' E	Oc.G. period 5s lt. 3s, ec. 2s	33 10	6	Beacon; 23.	
29796.48 <i>D 7393.9005</i>	--Container Terminal, breakwater, spur, SB9.	25° 54.6' N 51° 37.1' E	Oc.R. period 5s lt. 3s, ec. 2s	33 10	6	Beacon; 23.	Q.G. 3M lights mark berth 1200 meters E. Q.R. 3M lights mark Rayyan Dock 1870 meters SE.
29796.5 <i>D 7393.9</i>	--Range, front, FL2.	25° 55.1' N 51° 36.9' E	V.Q.W.		15		Emergency light V.Q.W.
29796.51 <i>D 7393.9001</i>	---Rear, 710 meters 279° from front, RL2.	25° 55.1' N 51° 36.5' E	V.Q.W.		15		Emergency light V.Q.W.
29796.6 <i>D 7393.95</i>	-Al-Khor Dock, S. breakwater, SB6.	25° 55.5' N 51° 37.1' E	Fl.R. period 5s	43 13	6	Beacon; 23.	Fl.R. 2s lights mark 3 Liquid Petroleum Berths close W. 2 Q.G. lights mark Cargo Berths 106 and 107 1500 meters W. 3 Q.G. lights mark Service Berths Pier 2300 meters W. Q.G. light mark Service Berth Jetty 2050 meters W.
29796.65 <i>D 7393.97</i>	--N. breakwater, SB7.	25° 55.8' N 51° 37.2' E	Fl.G. period 5s	36 11	6	Beacon; 23.	Q.Y. marks LNG Berth No. 1 1950 meters W. Q.G. marks SE end of Cargo Berth 1480 meters SW. Q.R. marks NW end of Cargo Berth 1720 meters W.
29796.7 <i>D 7393.92</i>	--Range, front, FLE.	25° 55.8' N 51° 36.0' E	Q.R.	36 11	8	White beacon, orange triangular daymark, point up.	
29796.71 <i>D 7393.93</i>	---Rear, 900 meters 278° from front, RLE.	25° 55.8' N 51° 35.5' E	Q.R.	72 22	8	White beacon, orange triangular daymark, point down.	R. lights on flare towers 60 meters 0.6 mile NE., 72 meters 0.9 mile SW., 136 meters 4 miles SW. and 169 meters 0.3 miles NE.
29796.8 <i>D 7393.91</i>	--Range, front, FL1.	25° 55.9' N 51° 35.8' E	V.Q.W.		15		Emergency light V.Q.W.
29796.81 <i>D 7393.911</i>	---Rear, 875 meters 279° from front, RL1.	25° 55.9' N 51° 35.3' E	V.Q.W.		15		Emergency light V.Q.W.
29800 <i>D 7383</i>	Sharaiwah.	25° 03.0' N 52° 13.2' E	Fl.Y. period 10s			Beacon; 13.	
29804 <i>D 7384</i>	Al Ashat.	24° 44.7' N 51° 35.7' E	Fl.W. period 4s			Beacon; 13.	
29805 <i>D 7384.3</i>	Al Qaffay, E.	24° 34.4' N 51° 44.0' E	Fl.W. period 9s				
29805.1 <i>D 7384.4</i>	-Breakwater, E.	24° 34.7' N 51° 43.7' E	Fl.R.				
29805.2 <i>D 7384.5</i>	--W.	24° 34.6' N 51° 43.7' E	Fl.G. period 9s				
29806 <i>D 7384.05</i>	Jazirat Huwaysat, N.	24° 24.0' N 51° 30.3' E	Q.W.	39 12	5	Beacon.	
29806.1 <i>D 7384.1</i>	-S.	24° 23.4' N 51° 30.1' E	Q.W.	39 12	5	Beacon.	
29808	<i>Qatar Buoy.</i>	25° 40.1' N 51° 56.5' E	L.Fl.W. period 10s			SAFE WATER RW, pillar, topmark.	Radar reflector.
	RACON		Q(- - -)		16		(3 & 10cm)
29812 <i>D 7393</i>	Ra's al Matbakh.	25° 40.8' N 51° 34.7' E	Fl.W.R. period 5s fl. 0.5s, ec. 4.5s	55 17	W. 21 R. 18	Tripod; 36.	R. 275°-290° over Fasht Ard an Nawt, W.-275°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PERSIAN GULF							
29814 <i>D 7384.65</i>	Yasat Ali.	24° 22.4' N 52° 00.9' E	Fl.W.R. period 10s fl. 0.2s, ec. 9.8s	98 30	W. 20 R. 16	Yellow tower on multi piled base with jetty; 105.	W.185° -350° , R.-185° . Q.R. and Q.G. lights are shown on jetty at the base of Yasat Ali. AIS (MMSI No 994701040). Emergency light.
	Range light.		Fl.G. period 10s fl. 1s, ec. 9s	98 30	14		Visible 225° -231° .
29816 <i>D 7378</i>	Halul.	25° 40.3' N 52° 24.4' E	Fl.W.R. period 12s	220 67	W. 19 R. 9	Black lantern, white base; 16.	W. 030° -300° , R.-030° over pipeline area.
29820 <i>D 7378.2</i>	-AVIATION LIGHT.	25° 40.0' N 52° 24.5' E	Al.FI.W.G.				
29822 <i>D 9206.9</i>	Platform DP1.	25° 56.5' N 52° 41.5' E	4 Mo.(U)W. period 15s		10		
	RACON		X(- • • -)				(3 & 10cm)
29836 <i>D 7367</i>	<i>Zaqqum Buoy.</i>	25° 06.6' N 53° 25.1' E	L.FI.W. period 10s			SAFE WATER RW, pillar, topmark.	Radar reflector.
	RACON		Z(- - • •)				(3 & 10cm)
29843 <i>D 7375.6</i>	Das Island, W. end, off shore.	25° 08.3' N 52° 48.4' E	Mo.(U)W. period 15s	39 12	10	Mono pod tower.	Horn: Mo.(U) ev. 30s.
29848.2 <i>D 7375.7</i>	-Loading Platform No. 2, N. end.	25° 08.8' N 52° 53.3' E	2 F.G. (vert.)	56 17			
29848.4 <i>D 7375.8</i>	--S. end.	25° 08.5' N 52° 53.4' E	2 F.G. (vert.)	56 17			
29849.2 <i>D 7376.2</i>	--S. end.	25° 09.5' N 52° 53.2' E	2 F.G. (vert.)	62 19	2		F.R. marks N. and S. end of pier. 2 F.R. (vert.) marks N. and S. end of sulphur berth 0.5 mile S.
29849.4 <i>D 7376.3</i>	--N. end.	25° 09.5' N 52° 53.2' E	2 F.G. (vert.)	52 16	2		
29850 <i>D 7376.6</i>	-Oil Loading Terminal, SBM.	25° 09.0' N 52° 54.1' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s		4	Green, red, blue and yellow quarters, black top.	
29868 <i>D 7366.6</i>	Qarnayn Island.	24° 56.0' N 52° 51.0' E	Fl.W. period 5s	194 59	8		
29872 <i>D 7366</i>	Zirkuh Island.	24° 53.1' N 53° 04.2' E	Fl.W. period 10s fl. 1s, ec. 9s	653 199	18	NE corner of radio mast.	W. 025° -000° . Obscured 223° -264° within 2 miles and 000° -025° .
	RACON		B(- • • •)		18		(3 & 10cm)
29876 <i>D 7366.3</i>	-Zarqa Sea intake.	24° 52.9' N 53° 05.3' E	V.Q.(3)W. period 5s	30 9	9	E. CARDINAL BYB, topmark, beacon.	
29880 <i>D 7366.2</i>	-Jetty, head.	24° 52.4' N 53° 05.6' E	F.Fl.G. period 10s	33 10	F. 7 Fl 9		Visible 150° -070° .
29881 <i>D 7366.4</i>	-E. of small craft anchorage.	24° 51.2' N 53° 07.4' E	Fl.(2+1)W. period 15s		10		Effluent water disposal platform. Horn: 2 bl. ev. 18s.
DOHA:							
29892	-LIGHTSHIP	25° 16.4' N 51° 45.1' E	Mo.(D)W. period 12s	19 6	8	Red hull and tower.	Inner and outer channel marked by lit buoys and beacons.
	-RACON		D(- • •) period 48s		16		(3 & 10cm)

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PERSIAN GULF							
29893 <i>D 7389.2</i>	-Island S. of outer channel, NW. point.	25° 17.9' N 51° 38.5' E	Q.R.		23 7		
29893.5 <i>D 7389.4</i>	--SE. point.	25° 17.6' N 51° 38.7' E	Q.R.		23 7		
29899 <i>D 7390.8</i>	-Container Terminal.	25° 18.4' N 51° 33.2' E	F.W.R.G.		33 10	W. 19 R. 16 G. 16	Metal pole, red and white bands; 20. G330°-332° 30' ,W.-337° 30' , R. 340° . Shown 24 hours. Daylight range W. 3M, R. 1M, G. 1M.
29900 <i>D 7390.9</i>	-Jetty, N. outer corner.	25° 18.1' N 51° 33.0' E	Fl.(2)R. period 6s				
29904 <i>D 7390.95</i>	--S. outer corner.	25° 18.0' N 51° 33.0' E	Fl.G. period 3s				Fl.(2)R. 5s and Fl.G. 3s mark Naval Harbor breakwater heads 1.15 miles 075° . Fl.G. 3s on beacon 0.9 mile E.
29905 <i>D 7391.6</i>	-Diplomatic Area.	25° 19.7' N 51° 32.9' E	Q.(3)G. period 5s				Beacon Fl.R. 3s 0.3 mile W.
29912 <i>D 7382</i>	Halat Umm Al Khayfan.	25° 09.0' N 51° 57.6' E	Fl.(2)W. period 20s	43 13	18	White fiberglass tower, red stripes.	
	UMM SA'ID:						
29914	-Mishut Lighted Buoy.	25° 16.0' N 51° 46.8' E	Q.(9)W. period 15s			W. CARDINAL YBY, pillar, topmark.	
29915	-Wakrah Lighted Buoy.	25° 09.3' N 51° 41.9' E	V.Q.(9)W. period 10s			W. CARDINAL YBY, pillar, topmark.	
29916	-Hul Lighted Buoy.	25° 02.9' N 51° 41.9' E	Q.(9)W. period 15s			W. CARDINAL YBY, pillar, topmark.	The channel east of Fasht Al Arif is marked by lighted buoys.
	-RACON		T(-)		10		(3 & 10cm)
29918 <i>D 7384.9</i>	-Fasht Al Arif.	24° 55.0' N 51° 41.6' E	Q.Y.		2	Tide gauge.	
29920	-SE. Arif Lighted Buoy.	24° 54.0' N 51° 43.0' E	V.Q.(3)W. period 5s			E. CARDINAL BYB, pillar, topmark.	
	RACON		B(- . . .) period 48s				
29924	-S. Arif Lighted Buoy.	24° 51.0' N 51° 41.0' E	V.Q.(6)+L.Fl.W. period 10s			S. CARDINAL YB, pillar, topmark.	The channel SW. of Fasht Al Arif Shoals is marked by lighted buoys.
29928	-Turning Lighted Buoy.	24° 54.8' N 51° 39.2' E	V.Q.W.			N. CARDINAL BY, pillar, topmark.	
29930 <i>D 7387.7</i>	Umm Said, boat harbor, W. side.	24° 56.5' N 51° 35.0' E	Fl.W. period 3s				2 meters apart.
			F.R.				
29930.2 <i>D 7387.8</i>	-E. side.	24° 56.4' N 51° 35.0' E	F.R.				
29932 <i>D 7385</i>	-QAFCO, jetty, head.	24° 55.1' N 51° 34.4' E	Fl.R.				F.R. on dolphin 300 meters W.
			F.R.				
29934 <i>D 7385.2</i>	--S.	24° 54.8' N 51° 34.3' E	F.R.		4		
29944 <i>D 7385.4</i>	-LPG, jetty.	24° 54.0' N 51° 33.3' E	F.R.			Red diamond daymark, white stripes.	Mo.(U)W. marks end of pipeline 0.9 mile SSE. F.W. on dolphin 560 meters E. F.R. on dolphin 850 meters NE.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PERSIAN GULF							
29945 D 7385.6	-Gas Liquids Plant.	24° 54.3' N 51° 33.7' E	F.G.			Beacon.	
29946 D 7387	-S. Anchorage, N. Range, front.	24° 53.4' N 51° 32.8' E	F.G.			Beacon.	
29946.1 D 7387.2	--Rear, 350 meters 270° from front.	24° 53.4' N 51° 32.6' E	F.W.			Beacon.	
29947 D 7387.3	--S. Range, front.	24° 53.3' N 51° 32.8' E	F.R.			Beacon.	
29947.1 D 7387.4	---Rear, 320 meters 270° from front.	24° 53.4' N 51° 32.6' E	F.W.			Beacon.	
29948	-North Berth Buoy.	24° 53.7' N 51° 35.0' E	Fl.W. period 3s			5 Orange single point mooring buoy.	
29952 D 7368	Creagh Shoal Buoy.	24° 43.1' N 52° 43.0' E	Q.(9)W. period 15s			W. CARDINAL YBY, pillar, topmark.	
	RACON		C(- • - •)				(3 & 10cm)
29953 D 7368.2	-Jazirat Arzanah, jetty, head.	24° 46.3' N 52° 33.6' E	Iso.Y. period 3s				L.Fl.W. 5s light also marks jetty.
29953.1 D 7368.4	--Harbor Entrance.	24° 46.1' N 52° 33.9' E	Iso.W. period 3s				
29956 D 7369	Dalma Light Buoy.	24° 32.4' N 52° 27.7' E	Q.(9)W. period 15s			W. CARDINAL YBY, pillar, topmark.	
	RACON		N(- •)				(3 & 10cm)
29960	Gasha Light Buoy.	24° 25.8' N 52° 34.5' E	Q.(9)W. period 15s			W. CARDINAL YBY, pillar, topmark.	
	RACON		G(- - •)				(3 & 10cm)
29964 D 7370	Price Shoal.	24° 17.5' N 52° 42.2' E	Fl.W. period 5s	39 12	14	Red metal pile, white lantern.	
	RACON		T(-)		20		(3 & 10cm)
29968 D 7370.4	South Alaq.	24° 13.9' N 52° 41.6' E	Fl.W. period 5s	22 7	8	Framework structure, red and white bands.	
29991	Az Zannah, Berth 2.	24° 12.8' N 52° 40.4' E	Mo.(U)W. period 15s			Orange SBM.	Horn: Mo.(U) ev. 30s.
29994 D 7371.4	-SBM.	24° 12.1' N 52° 41.3' E	Mo.(U)W. period 15s				Horn: Mo.(U) ev. 30s.
30004 D 7371.6	Az Zannah, T5, jetty.	24° 11.4' N 52° 37.8' E	2 V.Q.R.	20 6	5	Aluminum round housing, red band; 7.	2 meters apart.
30006 D 7372	Ar Ruways, Liquid Products, Jetty, NW. head.	24° 10.4' N 52° 42.7' E	2 F.G. (vert.)				2 F.G. (vert.) marks SE. end.
30006.4 D 7372.2	-Coastal Tanker, jetty, head.	24° 09.7' N 52° 42.7' E	2 F.R. (vert.)				
30006.8 D 7372.4	-LNG, jetty, NW. head.	24° 10.0' N 52° 43.2' E	2 F.G. (vert.)				2 F.G. (vert.) marks SE. end.
30008	Mubarraz Approach Lighted Buoy.	24° 56.9' N 53° 18.4' E	Fl.R. period 5s			Red buoy.	Channel to oil terminal marked by lighted buoys.
30013 D 7365.2	-Fishing Harbor, N. breakwater, head.	25° 13.1' N 54° 14.3' E	Fl.G. period 5s fl. 1s, ec. 4s	23 7	5	Metal post; 7.	
30013.5 D 7365.3	--S. breakwater, head.	25° 13.1' N 54° 14.3' E	Fl.R. period 5s fl. 1s, ec. 4s	23 7	5	Metal post; 7.	
30020 D 7363	Abu Dhabi, Mina Zayid, W. breakwater, head.	24° 32.4' N 54° 23.0' E	Fl.W. period 10s	26 8	15	Black column, white bands; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PERSIAN GULF							
30021 <i>D 7363.08</i>	--Silo.	24° 32.2' N 54° 23.1' E	Iso.W. period 6s	230 70	17	On Silo.	
30024 <i>D 7363.2</i>	-Sadiyat, E. breakwater, head.	24° 32.4' N 54° 23.6' E	V.Q.(9)W. period 10s	19 6			
30028 <i>D 7363.3</i>	--SW. breakwater, head.	24° 31.9' N 54° 23.4' E	Oc.W. period 7s lt. 4.5s, ec. 2.5s				Fl.W. 4s marks SE. corner. Fl.Y. 4s on each of 4 overhead power cable pylons 1.2 miles SE.
30032 <i>D 7363.5</i>	-NW. breakwater, elbow.	24° 31.5' N 54° 21.8' E	Q.W.	23 7			
30036 <i>D 7363.6</i>	--SW. corner.	24° 31.0' N 54° 21.6' E	Oc.R. period 16s	23 7			
30037 <i>D 7363.7</i>	-Corniche Island, Offshore breakwater,N. head.	24° 31.2' N 54° 21.5' E	Oc.G. period 16s	20 6			Channel to Dhow Harbor marked by lighted beacons.
30038 <i>D 7363.75</i>	--S. end, Marina breakwater, head.	24° 28.7' N 54° 19.9' E	Q.W.				
30040 <i>D 7364</i>	-Khor Bateen, W. breakwater, head.	24° 28.6' N 54° 18.0' E	Fl.W. period 3s			Beacon.	
30044 <i>D 7364.2</i>	--E. breakwater, head.	24° 28.0' N 54° 18.2' E	Fl.W. period 3s			Beacon.	
30048	<i>Jebel Ali Buoy.</i>	25° 10.6' N 54° 52.3' E	L.Fl.W. period 15s	26 8		SAFE WATER RW, pillar, topmark.	
	RACON		X(- • • -)				(3 & 10cm)
30052 <i>D 7360.4</i>	W. training wall, head.	25° 01.2' N 55° 02.3' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	46 14	8	Tower.	
30056 <i>D 7360.5</i>	E. training wall, head.	25° 01.2' N 55° 02.6' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	46 14	8	Tower.	
30060 <i>D 7360.8</i>	Hassah Marina, breakwater.	24° 59.8' N 55° 01.9' E	Al.W.R. period 2s	33 10	8	White tower, red band.	
30062 <i>D 7361</i>	Jabal Ali Hotel Marina.	24° 59.5' N 55° 01.5' E	Al.W.R. period 2s		8		
30064 <i>D 7360</i>	Mina Jebal Ali, AVIATION LIGHT.	25° 01.1' N 55° 04.4' E	Oc.R. period 3s	102 31	20	Flare stack.	
30068 <i>D 7360.2</i>	-AVIATION LIGHT.	25° 01.2' N 55° 04.5' E	Oc.R. period 3s	190 58	20	Flare stack.	
30070 <i>D 7360.22</i>	-AVIATION LIGHT.	25° 01.2' N 55° 04.5' E	Oc.R. period 3s	190 58	20	Flare stack.	
30071 <i>D 7360.6</i>	-Aluminum Plant, breakwater, elbow.	25° 01.9' N 55° 04.9' E	Fl.(2)G. period 10s fl. 1s, ec. 1s fl. 1s, ec. 7s	20 6	5	Green column, white bands.	
30071.1 <i>D 7360.65</i>	--Breakwater, head.	25° 01.9' N 55° 04.9' E	Fl.Y. period 5s	20 6	7	SPECIAL Y, beacon, topmark.	
30071.7 <i>D 7358.21</i>	-Dubai Marina.	25° 04.4' N 55° 07.4' E	Fl.(5)G. period 20s	23 7	5	White metal post; 7.	Iso.G. 7m 2M and Iso.R. 7m 2M mark breakwaters.
30072 <i>D 7358</i>	Mina Sahayah Fishing Harbor.	25° 05.5' N 55° 08.5' E	Fl.(3)W. period 10s		2		
30074 <i>D 7357.75</i>	Chicago Beach, main breakwater.	25° 08.7' N 55° 11.3' E	Oc.G.		5		Fl.R. mark lee breakwater. W. and R. lights mark hotels.
30076 <i>D 7357.4</i>	Maz Gam Fishing Harbor, breakwater.	25° 09.3' N 55° 11.8' E	Fl.(3)G. period 20s			STARBOARD (A) G, beacon, topmark.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PERSIAN GULF							
30080 D 7357.3	Umm Suqaym Fishing Harbor, breakwater.	25° 10.6' N 55° 12.9' E	Fl.G. period 5s		4		
30081 D 7357.2	Al Rais.	25° 12.3' N 55° 14.2' E	Q.G.			STARBOARD (A) G, beacon, topmark.	
30081.5 D 7356.8	Detached breakwater, N. head.	25° 13.6' N 55° 15.3' E	Fl.(5)G. period 20s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 11s			STARBOARD (A) G, beacon, topmark.	S. head marked by Q.G.
30082 D 7356.7	T-head breakwater, N. head.	25° 13.8' N 55° 15.4' E	Fl.(6)G. period 20s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 9s			STARBOARD (A) G, beacon, topmark.	S. head marked by Q.G.
30082.5 D 7356.6	Beach Club, breakwater.	25° 14.0' N 55° 15.5' E	Q.G.			STARBOARD (A) G, beacon, topmark.	
30084 D 7357	Jumerah Fishing Harbor, breakwater.	25° 12.8' N 55° 14.6' E	Fl.G. period 10s			STARBOARD (A) G, beacon, topmark.	Spur marked by Fl.G. 10s.
30088 D 7353	Ajman, N. training wall, head.	25° 25.8' N 55° 26.7' E	Fl.R. period 5s	13 4	3	Red framework tower.	
30092 D 7353.2	-S. training wall, head.	25° 25.8' N 55° 26.5' E	Fl.W. period 2s	13 4	5	Green framework tower.	
30094 D 7353.5	Al Hayrah, N. breakwater, head.	25° 23.4' N 55° 24.7' E	Fl.G. period 5s fl. 1.5s, ec. 3.5s	16 5		Framework tower; 7.	
30094.5 D 7353.6	-S. breakwater, head.	25° 23.3' N 55° 24.7' E	Fl.R. period 5s fl. 1.5s, ec. 3.5s	16 5		Framework tower; 7.	
DUBAYY:							
30098	-Approach buoy.	25° 18.5' N 55° 10.0' E	L.Fl.W. period 10s			SAFE WATER RW, pillar, topmark.	
	-RACON		T(-)		11		(3 & 10cm)
30100 D 7355.6	-Mina Rashid, Dubai Maritime City, E. wall.	25° 16.5' N 55° 16.0' E	Q.W.	16 5	5	Red rectangular daymark, yellow cone, point up; 16.	
30108 D 7355.7	-Main breakwater, head.	25° 16.9' N 55° 16.0' E	Fl.G. period 5s	43 13	5	White round structure, black bands.	4 F.Y. 8m 3M lights mark breakwater.
30110 D 7355.8	-E. breakwater, head.	25° 16.8' N 55° 16.2' E	V.Q.R.	26 8	3	Metal post.	4 F.Y. 8m 3M mark E. breakwater.
30115 D 7355.77	-Dubai Dry Docks, W. breakwater, head.	25° 16.2' N 55° 15.0' E	Fl.G. period 5s		3	Green beacon.	W. breakwater marked by 8 F.Y. lights.
30117 D 7356.512	--Finger Quay, outer dolphin.	25° 15.3' N 55° 16.1' E	F.R.	20 6	3		F.R. mark dolphins off head. Dry Docks and associated dolphins marked by numerous F.R. and F.G. lights.
30120 D 7355.2	-Khaver Dubayy, outer channel, W. side.	25° 16.9' N 55° 17.5' E	Fl.W. period 3s	16 5	10		
30121 D 7355.3	--Entrance, W. side.	25° 16.5' N 55° 17.6' E	F.G.	10 3	3	Dolphin; 10.	Numerous lights exist along the banks of the creek.
30121.5 D 7355.32	---E. side.	25° 16.5' N 55° 17.7' E	Fl.R. period 5s	10 3	3	Dolphin; 10.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PERSIAN GULF							
30124 D 7355.4	--Inner harbor.	25° 15.9' N 55° 17.6' E	F.W.R. (vert.)				Occasional.
ASH SHARIQAH:							
30132 D 7354	-Main breakwater, head.	25° 22.2' N 55° 22.1' E	Fl.W. period 3s	49 15	7	Black and white framework tower; 39.	
30132.5 D 7354.2	-Lee breakwater, head.	25° 22.0' N 55° 22.2' E	Fl.R. period 3s	49 15	7	Red and white metal framework tower; 39.	F.R. on chimneys S. F.R. and F.W. on radio towers SE.
30133 D 7354.4	-W. breakwater, head.	25° 22.8' N 55° 23.3' E	Q.G.				
30133.5 D 7354.5	-E. breakwater, head.	25° 22.6' N 55° 23.4' E	Q.R.				
30134 D 7354.7	-W. interior breakwater, head.	25° 22.4' N 55° 23.3' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s				
30134.5 D 7354.8	-E. interior breakwater, head.	25° 22.5' N 55° 23.4' E	Q.(2)R. period 5s fl. 0.3s, ec. 0.7s fl. 0.3s, ec. 3.7s				
30137 D 7354.9	Al Hamiriyah Fishing Harbor, W. breakwater.	25° 18.0' N 55° 19.8' E	Fl.W. period 5s	10 3	2		
30138 D 7354.92	-E. breakwater.	25° 17.9' N 55° 19.8' E	Fl.R. period 3s	10 3	1		
30140 D 7351	Amoco Sharjah SBM.	25° 34.6' N 55° 24.2' E	Mo.(U)W. period 37s		6	Superbuoy.	
	RACON		Z(- - • •) period 48s		18		
30141 D 7351.4	Hamiriyah, N. breakwater, head.	25° 28.5' N 55° 28.8' E	Iso.R. period 2s	56 17	5	Framework tower; 39.	
30141.2 D 7351.5	-S. breakwater, head.	25° 28.7' N 55° 28.7' E	Fl.G. period 10s fl. 1s, ec. 9s	56 17	5	Framework tower; 39.	
30141.4 D 7351.6	-183° 45' .	25° 28.0' N 55° 28.7' E	Dir.F.W.R.G.	125 38		Framework tower.	G. 181° 12' -183° 12' , W.-184° 12' , R.-186° 12' . Visible 186° 12' -181° 12' .
			F.R.				
30141.6 D 7351.8	-N. training wall.	25° 28.9' N 55° 29.5' E	Iso.R. period 4s	16 5	5	Tower; 7.	
30141.8 D 7351.85	-S. training wall.	25° 28.9' N 55° 29.4' E	Iso.G. period 4s	16 5	5	Tower; 7.	
30152 D 7345	Mina Saqr Harbor, main breakwater.	25° 58.8' N 56° 02.7' E	Fl.(2)W. period 10s		9	Pillar; 10.	
30153 D 7345.5	-Entrance.	25° 58.4' N 56° 02.9' E	Oc.W.R.G. period 3s	69 21	W. 12 R. 10 G. 11	White framework tower, red bands; 66.	G.171° -173° 30' , W.-177° 30' , R.-180° .
			Fl.R. period 3s	72 22			Obstruction light.
30156 D 7345.2	-Lee Breakwater.	25° 58.7' N 56° 02.9' E	Fl.(2)R. period 10s		8	Pillar; 10.	
30157 D 7345.05	--Elbow.	25° 58.8' N 56° 02.8' E	Fl.G. period 3s				Visible 165° -017° .
30158 D 9192	Bukha A Platform.	26° 14.6' N 56° 03.3' E	Mo.(U)W. period 15s		10		Horn: Mo.(U) 30s
	RACON		B(- • • •)		18		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PERSIAN GULF							
30160 <i>D 7336</i>	Ra's Shaykh Mas'ud.	26° 15.4' N 56° 12.9' E	Fl.W. period 5s	62 19	10		Visible 065° -297° .
30161 <i>D 7336.2</i>	-Khasab, breakwater, head.	26° 12.7' N 56° 14.7' E	Fl.G. period 5s			3 Gray metal post.	Fl.R. 5s 3M marks groin close S.

Section 19

Red Sea, Gulf of Aden and Arabian Sea

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RED SEA							
BAHR EL QULZUM (SUEZ BAY):							
Port Ibrahim:							
30196 <i>E 5998</i>	--N. Mole, head.	29° 56.2' N 32° 33.4' E	F.R.	26 8	4	White tower, black bands.	
30200 <i>E 6000</i>	--S. mole, head.	29° 56.2' N 32° 33.4' E	F.G.	26 8	4	White tower, black bands.	
30204 <i>E 5996</i>	--Range, front.	29° 56.3' N 32° 33.5' E	F.W.	39 12	6	Black and white framework tower.	
30208 <i>E 5996.1</i>	---Rear, 200 meters 060° from front.	29° 56.4' N 32° 33.6' E	F.W.R. (vert.)	82 25	10	Black and white framework tower.	6m apart.
			F.R.	61 19	6		
30212 <i>E 5997.2</i>	--Detached breakwater, E. head.	29° 56.2' N 32° 33.3' E	Q.W.	26 8	5	Black and white iron structure.	
30216 <i>E 5997</i>	---W. head.	29° 56.2' N 32° 32.6' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	26 8	5	Black and white metal beacon.	
30217 <i>E 6004</i>	--El Mina el Gedida.	29° 56.4' N 32° 32.4' E	Fl.R.				
30220 <i>E 6012</i>	--Petroleum Basin, E. arm of basin, S. head.	29° 57.1' N 32° 32.0' E	F.G.				
30224 <i>E 6008</i>	--Petroleum Basin Range, front.	29° 57.3' N 32° 31.8' E	Oc.R.	23 7		Mast.	Only shown when ships are entering or leaving the basin.
30228 <i>E 6010</i>	---Rear, 130 meters 334° from front.	29° 57.4' N 32° 31.8' E	2 Oc.R. (vert.)	36 11 42 13		Mast.	2m apart. Only shown when ships are entering or leaving the basin.
30229 <i>E 6015</i>	-Oil berth.	29° 55.0' N 32° 30.7' E	Mo.(U)W. period 15s				
30230 <i>E 6017</i>	-- Birket Misallat.	29° 54.4' N 32° 35.6' E	Fl.W. period 3s	138 42	18	White daymark on metal framework tower; 128.	<i>Reported extinguished (2009).</i>
	--RACON		Z(- - • •)				(3 & 10cm)
30232 <i>E 6016</i>	-Qal'a Kebira, Green Island, off S. end.	29° 54.6' N 32° 31.8' E	Q.W.	75 23		Iron framework tower.	
30236 <i>E 6020</i>	-Newport Rock.	29° 53.1' N 32° 33.1' E	Fl.W. period 5s	56 17	10	Tripod on 3 pile structure; 30.	
30238 <i>E 6018</i>	-Mansiya Reef.	29° 52.9' N 32° 30.4' E	Fl.R. period 4s	20 6		Black and white framework structure, cross topmark.	
30240 <i>E 6019</i>	-Ataqa Reef.	29° 53.1' N 32° 29.5' E	Oc.G. period 3s	35 11	3	White framework tower, black bands.	
30242 <i>E 6019.5</i>	Ataqa Harbor, breakwater, NE. head.	29° 53.9' N 32° 27.9' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s			Red post.	
30242.2 <i>E 6019.7</i>	-SW. head.	29° 53.8' N 32° 27.8' E	Fl.G. period 4s fl. 0.5s, ec. 3.5s			Green post.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RED SEA							
30242.4 <i>E 6019.8</i>	-Jetty.	29° 53.8' N 32° 27.7' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s			Red post.	
30242.5 <i>E 6019.3</i>	-Outer mole, head.	29° 53.9' N 32° 28.0' E	Fl.G. period 4s fl. 0.5s, ec. 3.5s			Green post.	
KHALIJ AS SUWAYS (GULF OF SUEZ):							
30244 <i>E 6021</i>	-Ras Muhaggara.	29° 48.6' N 32° 28.2' E	Fl.(4)W. period 15s	141 43	18	Framework tower, white daymark; 128.	
	-RACON		Y(- • - -)				(3 & 10cm)
30246	- <i>Conry Rock lightfloat.</i>	29° 48.1' N 32° 34.2' E	Q.(9)W. period 15s	19 6	9	W. CARDINAL YBY, topmark.	
30248 <i>E 6021.2</i>	-Qadd el Tawila.	29° 47.8' N 32° 38.4' E	Fl.W. period 10s	154 47	18	Framework tower, white daymark; 128.	
	-RACON		X(- • • -)				(3 & 10cm)
30248.5	- <i>Ain Sukhna, Lightfloat, SC No. 2.</i>	29° 48.6' N 32° 32.1' E	Iso.W. period 6s	20 6	9	SAFE WATER RW, topmark.	
	-RACON		D(- • •)				(3 & 10cm)
30252 <i>E 6021.5</i>	-Lahata.	29° 40.4' N 32° 41.2' E	Fl.(3)W. period 15s	154 47	18	Framework tower, white daymark; 128.	
	-RACON		C(- • - •)				(3 & 10cm)
30252.2	- <i>Ain Sukhna, Lightfloat, SC No. 1.</i>	29° 39.5' N 32° 32.4' E	L.Fl.W. period 10s	20 6	9	SAFE WATER RW, topmark.	
	-RACON		O(- - -)				(3 & 10cm)
30252.3	- <i>N. Ain Sukhna Buoy.</i>	29° 38.9' N 32° 24.5' E	Fl.(3)W. period 10s			E. CARDINAL BYB, pillar, topmark.	
	-RACON		K(- • -)				
30253 <i>E 6021.6</i>	-N. Ain Sukhna Range, front.	29° 38.8' N 32° 21.1' E	Oc.W. period 6s lt. 4s, ec. 2s		9	White metal column.	Visible 265.5° -274.5° .
30253.1 <i>E 6021.61</i>	--Rear, 48 meters 270° from front.	29° 38.8' N 32° 21.0' E	Oc.W. period 6s lt. 4s, ec. 2s		9	White metal column.	Visible 265.5° -274.5° .
30254 <i>E 6021.8</i>	-Ain Sukhna.	29° 36.1' N 32° 20.5' E	Fl.W. period 5s	144 44	22	Framework tower, white daymark; 128.	
			Oc.W.R.G.	131 40	15		G.260° -273° , W.-298° , R.- 306° .
	-RACON		Q(- - • -)				
30254.5	-- <i>N. Lightfloat.</i>	29° 35.4' N 32° 33.0' E	Mo.(A)W. period 10s	46 14	9	SAFE WATER RW, topmark.	
	--RACON		B(- • • •)				(3 & 10cm)
30255	-- <i>South Lightfloat.</i>	29° 29.2' N 32° 35.9' E	L.Fl.W. period 10s fl. 2s, ec. 8s	46 14	12	SAFE WATER RW, topmark.	
	--RACON		G(- - •)				(3 & 10cm)
30256 <i>E 6022.5</i>	-Ras Abu Darag.	29° 22.8' N 32° 33.8' E	Fl.(2)W. period 20s fl. 0.3s, ec. 3s fl. 0.3s, ec. 16.4s	164 50	19	White round concrete tower on white dwelling.	
	-RACON		TR(- • - •)				(3 & 10cm)

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RED SEA							
30258 E 8075	-Ras Za'farana Oilfield, Platform HB-77-5.	29° 11.0' N 32° 41.1' E	Mo.(U)W. period 15s		10		
	-RACON		B(- • • •)				
30260 E 6023	-Ras Zafarana.	29° 06.7' N 32° 39.9' E	Fl.W. period 10s fl. 0.3s, ec. 9.7s	83 25	17	White round concrete tower on white dwelling; 82.	
	-RACON		Z(- - • •)				(3 & 10cm)
30260.1 E 6023.37	-Mersa Thelemet, jetty, N. head.	29° 01.8' N 32° 38.2' E	Fl.G. period 2s				
30260.2 E 6023.38	--S. head.	29° 01.5' N 32° 38.2' E	Fl.R. period 2s				
30260.3 E 6023.23	--Range, front.	29° 03.0' N 32° 37.3' E	FR.	49 15	5	Metal framework tower, white triangular daymark, point up.	Radar reflector.
30260.4 E 6023.231	--Rear, 302° from front.	29° 03.1' N 32° 37.2' E	FR.	66 20	5	Metal framework tower, white triangular daymark, point down.	Radar reflector.
30261 E 6023.2	-Abu Zenima Bay Range, front.	29° 02.7' N 33° 07.1' E	FR.	39 12	5	Beacon, triangular daymark, point up.	
30261.1 E 6023.21	--Rear, 150 meters 334° from front.	29° 02.9' N 33° 06.6' E	FR.	49 15	5	Beacon, triangular daymark, point down.	
30261.3 E 6023.35	--Beacon.	29° 02.4' N 33° 06.4' E	Fl.R. period 3s	20 6	5	Red metal tower.	
30261.5 E 8157	-East Tanka Oilfield, Platform A.	28° 59.1' N 32° 56.8' E	Mo.(U)W.			Platform.	Horn: Mo.(U)
	-RACON		Z(- - • •)				(3 & 10cm)
30262 E 8120	-North Amer Oilfield, FF-83-2.	28° 49.2' N 32° 55.0' E	Mo.(U)W. period 15s			Platform.	Horn: Mo.(U)
	-RACON		U(• • -)		25		
30263 E 8110	--GG-83-2.	28° 45.8' N 32° 55.5' E	Mo.(U)W. period 15s			Platform.	Horn: Mo.(U)
	--RACON		U(• • -)		25		
30264 E 6023.6	-Ras Ruahmi.	28° 43.2' N 32° 49.4' E	Fl.(3)W. period 20s	72 22	15	Black fiberglass tower; 33.	
	-RACON		M(- -)				(3 & 10cm)
30268 E 8165	-Belayim Oilfield , platform D10.	28° 37.2' N 33° 06.7' E	Q.(9)W. period 15s	75 23	15	Platform.	
	-RACON		O(- - -)				(3 & 10cm)
30276 E 6024.4	-False Ras Gharib.	28° 30.9' N 32° 57.6' E	Fl.W. period 5s	36 11	15	White fiberglass tower, red stripe; 33.	
30280 E 6025	-Ras Gharib.	28° 21.1' N 33° 06.6' E	Fl.(4)W. period 20s fl. 0.2s, ec. 2.4s fl. 0.2s, ec. 2.4s fl. 0.2s, ec. 2.4s fl. 0.2s, ec. 12s	151 46	22	White daymark on white iron framework tower, white dwelling; 128.	Visible 150° -308°. Liable to be obscured by sand storms. DGPS Station.
	-RACON		G(- - •)				(3 & 10cm)
30284 E 6025.2	--N. Berth, No. 2 Range, front.	28° 21.1' N 33° 06.6' E	FG.	39 12	5		
30288 E 6025.21	--Rear, No. 1, 2000 meters 302° 40' from front.	28° 21.7' N 33° 05.7' E	FG.	72 22	5		
30292 E 6025.4	--No. 3 Range, front.	28° 20.8' N 33° 06.6' E	FR.	36 11	5		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RED SEA							
30296 <i>E 6025.41</i>	--Rear, No. 6, 380 meters 269° from front.	28° 20.8' N 33° 06.4' E	F.R.	161 49	5		
30300 <i>E 6025.6</i>	--S. Berth, No. 5 Range, front.	28° 20.5' N 33° 06.6' E	F.G.	33 10	5		
30304 <i>E 6025.61</i>	---Rear, No. 4, 430 meters 298° 50' from front.	28° 20.6' N 33° 06.4' E	F.G.	121 37	5		
30308 <i>E 6026</i>	--New S. Berth, No. 8 Range, front.	28° 20.4' N 33° 06.6' E	F.G.	48 15	5	Framework tower, square daymark.	
30312 <i>E 6026.1</i>	--Rear, No. 7, 760 meters 299° 15' from front.	28° 20.6' N 33° 06.2' E	F.G.	125 38	5	Framework tower, square daymark.	
30316 <i>E 6025.8</i>	--No. 12 Range, front	28° 20.1' N 33° 06.6' E	F.R.	46 14	5		
30320 <i>E 6025.81</i>	--Rear, No. 11, 480 meters 264° 20' from front.	28° 20.1' N 33° 06.3' E	F.R.	79 24	5		
30324 <i>E 6026.3</i>	--No. 9 Range, front.	28° 19.8' N 33° 06.6' E	F.R.	42 13	5	Framework tower, square daymark.	
30328 <i>E 6026.31</i>	---Rear, No. 10, 240 meters 265° from front.	28° 19.8' N 33° 06.5' E	F.R.	45 14	5	Framework tower, square daymark.	
30332 <i>E 6027</i>	-El Mallaha.	28° 14.8' N 33° 09.6' E	Fl.W. period 10s	39 12	15	Red fiberglass tower; 33.	
30336 <i>E 8215</i>	-Platform SG 300.	28° 18.6' N 33° 09.1' E	Mo.(U)W. period 15s		5	Platform.	
	-RACON		B(-•••) period 72s		15		
30340 <i>E 6030</i>	-Ras Shukier.	28° 07.9' N 33° 16.5' E	Fl.(3)W. period 20s	279 85	22	Framework tower with white square daymark; 56.	
30341	--SE., in southbound lane of TSS.	28° 05.0' N 33° 23.4' E	Fl.(2)W. period 10s			ISOLATED DANGER BRB, pillar, topmark.	
	--RACON		D(-••)				
30342	--Lightfloat.	28° 09.5' N 33° 20.4' E	Mo.(A)W. period 10s	46 14	12	SAFE WATER RW, topmark.	
	--RACON		KT(-•• -)				
30343	--N., corner of Precautionary Area.	28° 11.3' N 33° 21.4' E	Fl.(2)W. period 10s			ISOLATED DANGER BRB, pillar, topmark.	
	--RACON.		D(-••)				
30344 <i>E 8282.5</i>	-Platform M-72, RACON	28° 10.7' N 33° 26.8' E	M(- -) period 72s		15		
30346 <i>E 8327</i>	-Platform AMAL-9, RACON.	28° 03.7' N 33° 34.8' E	D(-••)				
30348 <i>E 6031</i>	-Ras Dib.	28° 01.8' N 33° 24.9' E	Fl.W. period 5s	148 45	15	Black fiberglass tower; 33.	
	-RACON		MT(- - -)				
30352 <i>E 8266</i>	Platform R-5, RACON	28° 17.2' N 33° 18.6' E	K(-• -) period 72s		15		
30356 <i>E 8260.3</i>	Yulyu Oilfield, platform J-29, RACON	28° 15.4' N 33° 14.6' E	G(- - •) period 72s		15		
30360 <i>E 8262</i>	-Platform J-62.	28° 14.4' N 33° 16.9' E	Mo.(U)W.			Platform.	
	-RACON		N(-•) period 72s		15		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RED SEA							
30361 <i>E 8259</i>	Platform ASMA-8.	28° 13.2' N 33° 20.5' E	2 Mo.(U)W. period 15s	33 10			Horn: Mo.(U) 30s
	RACON		C(- • - •)				
	-At Tur Harbor:						
30364 <i>E 6028</i>	--Grafton Reef, on N. side of entrance to harbor.	28° 13.6' N 33° 36.6' E	Fl.W. period 3s	18 5	5	White quadrangular tower, black band.	Radar reflector.
30368 <i>E 6028.7</i>	--Boat harbor, breakwater, head.	28° 13.7' N 33° 37.3' E	F.R.				Occasional.
30372 <i>E 6028.4</i>	--S. of boat harbor, breakwater Range, front.	28° 13.4' N 33° 37.5' E	F.G.			Beacon, triangular daymark, point up.	Lead between Grafton Beacon and Erg Rivah. Shown only during the pilgrimage season, or by request.
30376 <i>E 6028.41</i>	---Rear, about 470 meters 095° from front.	28° 13.4' N 33° 37.8' E	F.R.			Beacon, circular daymark.	
30380	-Ra's Jarrah Oil Well.	27° 59.0' N 33° 44.0' E	Fl.R. period 2s fl. 0.5s, ec. 1.5s	20 6	3		Navigation is prohibited near this light.
30384 <i>E 6032</i>	Ras Zeit.	27° 57.0' N 33° 30.6' E	Fl.(2)W. period 20s	92 28	15	White fiberglass beacon, red band; 33.	
30386 <i>E 8335.2</i>	Straits of Gubal Platform Sidki-B RACON.	27° 56.6' N 33° 38.8' E	O(- - -)				Lighted.
30387 <i>E 8340</i>	ESSO Suez Platform, E. ZEIT.	27° 52.6' N 33° 41.2' E	Fl.W. period 8s		6		Horn: 1 bl. ev. 20s.
	RACON		C(- • - •)				
30387.2 <i>E 8340.5</i>	-SE.	27° 51.4' N 33° 42.7' E	Mo.(U)W. period 15s	39 12	5	Platform.	Horn: Mo.(U) ev. 30s.
	-RACON		O(- - -)				
30387.5 <i>E 8362</i>	Ashrafi Oil Field Platform WHP-2 RACON.	27° 48.9' N 33° 42.0' E	Z(- - • •)				
30388 <i>E 6033</i>	Umm El-Kiman.	27° 49.6' N 33° 34.9' E	Fl.W. period 10s	79 24	15	Black fiberglass tower, white band; 33.	Horn.
30392	-Platform, RACON.	27° 50.1' N 33° 43.7' E	Q(- - • -)		7		
30396 <i>E 6034</i>	-Ashrafi Juzur, S. head.	27° 47.4' N 33° 42.4' E	Fl.(3+1)W. period 15s fl. 0.3s, ec. 1.4s fl. 0.3s, ec. 1.4s fl. 0.3s, ec. 5.5s fl. 0.3s, ec. 5.5s	124 38	17	Black round masonry tower, white bands, concrete base.	
30398 <i>E 6034.5</i>	-Shag Rock.	27° 46.5' N 33° 52.2' E	Q.(9)W. period 15s	39 12	15	W. CARDINAL YBY, beacon, topmark.	
	-RACON		F(• • - •)				(3 & 10cm)
30400 <i>E 6035</i>	-Bluff Point.	27° 40.8' N 33° 48.4' E	Fl.W. period 5s	79 24	15	White fiberglass tower; 33.	
	-RACON		B(- • • •)		22		(3 & 10cm)
30404 <i>E 6036</i>	-Siyul Island.	27° 33.6' N 33° 52.8' E	Fl.(4)W. period 20s	49 15	15	White fiberglass tower, black bands; 33.	
30404.5 <i>E 6036.5</i>	-Abu Nuhus.	27° 34.5' N 33° 56.0' E	Q.(3)W. period 10s	36 11	7	PORT (A) R, beacon, topmark.	
	-RACON		L(• - • •)		4		(3 & 10cm)

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RED SEA							
30405 <i>E 6036.2</i>	Saghira, N.	27° 34.1' N 33° 50.3' E	Fl.(2)R. period 5s	30 9		Red round fiberglass tower; 16.	
30405.5 <i>E 6036.4</i>	Tawila Island.	27° 34.8' N 33° 48.1' E	Fl.(2)G. period 5s	36 11	8	Green round fiberglass tower; 16.	
30406 <i>E 6036.21</i>	Sha'ab Abu Rakaw.	27° 28.6' N 33° 49.5' E	Q.W.	30 9	8	N. CARDINAL BY, beacon, topmark; 16.	
30406.2 <i>E 6037.2</i>	Sha'b el Ireq, Melana.	27° 25.3' N 33° 52.1' E	Q.(3)W. period 10s	30 9		E. CARDINAL BYB, beacon, topmark; 16.	
30406.4 <i>E 6037.3</i>	-E.	27° 23.9' N 33° 52.9' E	V.Q.(3)W. period 5s	30 9		E. CARDINAL BYB, beacon, topmark; 16.	
30407 <i>E 6037.25</i>	Abu Tig entrance, N.	27° 24.5' N 33° 40.7' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	16 5	1		
30407.2 <i>E 6037.26</i>	-S.	27° 24.5' N 33° 40.7' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	16 5	1		
30408 <i>E 6037</i>	-Jazirat Shakir.	27° 27.0' N 34° 02.2' E	Fl.(2)W. period 20s	121 37	22	White round stone tower, black band, white dwelling, black stripes.	Visible 187° -100°.
	-RACON		X(- • • -)				(3 & 10cm)
30409 <i>E 6037.5</i>	-Umm Qamar.	27° 21.5' N 33° 54.5' E	Fl.W. period 3s	79 24	15	Red fiberglass tower, white stripe.	
	-RACON		TS(- • • •)				(3 & 10cm)
	EL GHARDAQA:						
30409.5 <i>E 6037.6</i>	-Giftun el-Saghir.	27° 11.9' N 33° 59.0' E	Fl.(3)W. period 20s	100 30	16	Black galvanized metal tower.	
30410 <i>E 6037.7</i>	-Gaza'ir Giftun, NW.	27° 16.1' N 33° 53.1' E	Fl.R. period 5s	30 9		Red round fiberglass tower; 16.	
30410.2 <i>E 6037.8</i>	-Sha'b el Fanadir, SE. corner.	27° 15.4' N 33° 50.6' E	Fl.G. period 5s	30 9	8	STARBOARD (A) G, beacon; 16.	
30410.4 <i>E 6037.9</i>	-Franken Point.	27° 14.2' N 33° 50.9' E	Fl.(2)G. period 5s	30 9		STARBOARD (A) G, beacon.	
30410.5 <i>E 6037.92</i>	-Marina, Entrance.	27° 13.5' N 33° 50.6' E	Fl.G. period 3s	23 7	3		Radar reflector.
30410.55 <i>E 6037.93</i>	--S.	27° 13.4' N 33° 50.6' E	Fl.R. period 3s	23 7	3		Radar reflector.
30410.6 <i>E 6037.91</i>	-Gaziret Abu Minqar, W.	27° 12.9' N 33° 51.1' E	Fl.(2)R. period 5s	30 9		PORT (A) R, beacon; 16.	
30411 <i>E 6038</i>	El Ghardaqa Range, front.	27° 12.5' N 33° 50.5' E	Oc.R. period 5s lt. 3s, ec. 2s	181 55	18	Black framework tower, white and black rectangular daymark; 49.	
30411.5 <i>E 6038.1</i>	-Rear, 420 meters 194° 18' from front.	27° 12.3' N 33° 50.5' E	Oc.R. period 5s lt. 3s, ec. 2s	250 76	18	Black framework tower, white rectangular daymark; 59.	
30412 <i>E 6039</i>	Qad Ibn Haddan.	27° 48.2' N 34° 06.0' E	Fl.W. period 10s	154 47	22	Framework tower, white rectangular daymark; 128.	
	RACON		M(- -)				(3 & 10cm)
30413 <i>E 6039.3</i>	-Southward.	27° 42.3' N 34° 07.6' E	Q.(6)+L.Fl.W. period 15s	29 9	8	S. CARDINAL YB, tower, topmark.	Radar reflector.
30414 <i>E 6039.5</i>	Ras Muhammad.	27° 43.6' N 34° 14.9' E	Fl.(4)W. period 30s	49 15	15	White tower, black bands; 33.	Radar reflector.
	RACON		X(- • • -)				

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RED SEA							
30415 <i>E 6039.91</i>	Sharm El-Sheikh entrance, W. side.	27° 50.5' N 34° 16.6' E	Oc.R. period 5s lt. 3s, ec. 2s	23 7	3	Red beacon.	
30415.5 <i>E 6039.9</i>	-E. side.	27° 51.0' N 34° 17.2' E	Oc.G. period 5s lt. 3s, ec. 2s	23 7	3	Green beacon.	
30416 <i>E 6040</i>	Ras Umm Sidd.	27° 51.0' N 34° 18.8' E	Fl.(3)W. period 20s	148 45	22	Framework tower, white rectangular daymark; 56.	DGPS Station.
	RACON		K(- • -)				(3 & 10cm)
	GULF OF AQABA:						
30420 <i>E 6040.5</i>	-Enterprise Passage.	27° 58.8' N 34° 26.2' E	Fl.W. period 10s	43 13	15	Green fiberglass tower; 33.	F.R.W. (vert.) 1.5 miles NNW. 2 F.R. (vert.) 2 miles W.
	-RACON		Oc.G. period 7s lt. 5s, ec. 2s		8		
			Y(- • - -)				
30422 <i>E 6040.3</i>	-Chisholm Point.	27° 56.7' N 34° 30.2' E	Fl.(2+1)W. period 20s	39 12	9	White fiberglass beacon; 33.	
	-RACON		C(- • - •)				
30424 <i>E 6040.7</i>	-Gordon Reef.	27° 59.2' N 34° 27.0' E	Oc.R. period 7s lt. 5s, ec. 2s	39 12	8	Red and white fiberglass beacon; 33.	Radar reflector.
	-RACON		G(- - •)				
30424.2 <i>E 6040.72</i>	-Jackson Reef.	28° 00.5' N 34° 28.5' E	Fl.(2)R. period 5s	30 9	8	Red fiberglass tower; 18.	
30424.4 <i>E 6040.74</i>	-W. of Johnson Point.	27° 59.8' N 34° 29.0' E	Fl.(2)G. period 5s	30 9	8	Green fiberglass tower; 18.	
30424.5	--SW.	27° 59.4' N 34° 29.1' E	Q.(9)W. period 15s			W.CARDINAL YBY, pillar, topmark.	
	--RACON		D(- • •)				
30424.6 <i>E 6040.76</i>	--NW.	28° 00.8' N 34° 29.2' E	Fl.G. period 5s	30 9	8	White fiberglass tower, green top; 20.	
30425 <i>E 6040.8</i>	-Nabq.	28° 03.4' N 34° 26.1' E	V.Q.(3)W. period 5s	26 8	5	E. CARDINAL BYB, tower; 20.	Visible 185° -345° . Q.(3) 10s 5M marks stranded wreck ENE. Radar reflector.
30426 <i>E 6040.9</i>	-Wadi Kid.	28° 10.2' N 34° 26.9' E	Q.(3)W. period 10s	36 11	8	E. CARDINAL BYB, tower; 29.	Visible 192° -293° . Radar reflector.
	-RACON		K(- • -)		6		
30428 <i>E 6041</i>	Dahab.	28° 30.0' N 34° 31.2' E	Fl.(2)W. period 20s	66 20	15	White round fiberglass tower, black band; 33.	Radar reflector.
	RACON		D(- - •)				
30432 <i>E 6041.4</i>	Nuweibah.	29° 01.7' N 34° 39.2' E	Fl.(2+1)W. period 10s	151 46	15	White round fiberglass tower; 33.	Radar reflector.
	RACON		N(- •)				
30436 <i>E 6042</i>	Elat.	29° 30.0' N 34° 54.8' E	Fl.W. period 10s fl. 1s, ec. 9s	211 64	21	White concrete tower, black bands.	
30437 <i>E 6042.2</i>	-Oil Terminal Range, front.	29° 31.2' N 34° 56.0' E	Fl.(2)Y. period 10s		3		

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RED SEA							
30438 E 6042.21	--Rear, 620 meters 011° 58' from front.	29° 31.6' N 34° 56.1' E	Fl.Y. period 5s		3		Signal station.
30439 E 6042.3	-Oil berth, SW. end.	29° 31.1' N 34° 55.8' E	Fl.G. period 2s		2		Berth marked by F.G. and F.R. lights.
30440 E 6043	-Elat AVIATION LIGHT.	29° 33.0' N 34° 57.4' E	Al.FI.(10)W.G. period 60s			Building.	
30441 E 6043.4	-Basin entrance, SE. side.	29° 32.0' N 34° 56.5' E	F.R.		2		NW. side marked by F.G. 2M.
30444 E 6043.5	-Marina.	29° 32.9' N 34° 57.6' E	Fl.(1+3+6)R.		2		
AQABA:							
30449 E 6044.65	--On shore.	29° 32.3' N 34° 59.2' E	Oc.R. period 2s			Red framework tower.	
F.R. (vert.)							
30452 E 6044	-Control tower.	29° 30.8' N 34° 59.8' E	Fl.(3)W. period 10s fl. 0.2s, ec. 1.1s fl. 0.2s, ec. 1.1s fl. 0.2s, ec. 7.2s	236 72	17	White round concrete tower.	
30454 E 6044.3	-Yacht club, N. side.	29° 31.7' N 34° 59.9' E	Fl.R.			White round tower, red top.	
30455 E 6044.35	--S. side.	29° 31.7' N 34° 59.9' E	Q.G.			White round tower, green top.	
30458 E 6044.7	-S. of Yarmouk.	29° 26.8' N 34° 58.1' E	Q.(9)W. period 15s	30 9	7	White metal structure.	
30460 E 6044.75	-Tala Bay, entrance, N.	29° 24.5' N 34° 58.7' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s		2		
30460.1 E 6044.751	--S.	29° 24.5' N 34° 58.6' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s		2		
30462 E 6044.78	-Royal Jordanian Naval Base, Detached breakwater, N. end.	29° 23.9' N 34° 57.8' E	Fl.R. period 2s	10 3			
30462.1 E 6044.785	--S. end.	29° 23.8' N 34° 57.8' E	Fl.R. period 2s	10 3			
30462.2 E 6044.79	--Entrance, E.	29° 23.8' N 34° 57.9' E	Fl.R. period 2s	30 9			
30462.3 E 6044.795	---W.	29° 23.8' N 34° 57.9' E	Fl.G. period 2s			Beacon.	
30463 E 6044.8	-Industrial port, JFI, jetty, N.	29° 22.1' N 34° 57.5' E	2 F.R. (vert.)				R. lights on chimneys 1.1M NE.
30463.1 E 6044.82	---S.	29° 22.0' N 34° 57.5' E	2 F.G. (vert.)				
30469 E 6045	Shushah.	27° 55.9' N 34° 54.1' E	Fl.W. period 10s fl. 0.5s, ec. 9.5s	325 99	9	Metal structure; 3.	
30469.5 E 6045.5	Burqan.	27° 54.6' N 35° 04.2' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	125 38	9	Metal structure; 3.	
30469.6 E 6046	Ash Sharmah Range, front.	27° 55.7' N 35° 16.5' E	Q.W.				
30469.7 E 6046.1	-Rear, 336 meters 036° from front.	27° 55.9' N 35° 16.6' E	Q.W.				

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RED SEA							
30470 E 6046.5	Jazair Sila.	27° 39.0' N 35° 16.7' E	Fl.W. period 12s	49 15	12		
	RACON		J(• - - -)				(3 & 10cm)
30470.5 E 6047.2	Ra's Abu Sawmah.	26° 51.1' N 34° 00.1' E	Fl.(4)W. period 20s	100 30	16	Black metal tower, white top.	
	RACON		C(- • - •)				(3 & 10cm)
30471 E 6047.65	Panorama Reef.	26° 45.3' N 34° 04.7' E	Q.W.	29 9	5	N. CARDINAL BY, fiberglass tower, topmark.	Radar reflector.
30471.2 E 6047.66	Middle Reef.	26° 42.4' N 34° 05.9' E	Q.(3)W. period 10s	23 7	5	E. CARDINAL BYB, beacon, topmark.	Radar reflector.
30471.3	Fellowes Rocks Buoy.	26° 41.7' N 34° 03.9' E	Fl.(2)W. period 8s			ISOLATED DANGER BRB, pillar, topmark.	
	RACON		D(- • •)				
30471.4 E 6047.55	Geziret Safaga, NE.	26° 45.7' N 33° 59.6' E	Q.(3)W. period 10s	66 20	5	E. CARDINAL BYB, beacon, topmark.	Radar reflector.
30471.5 E 6047.5	-SE.	26° 42.8' N 33° 59.8' E	Dir.Fl.W.R.G. period 3s	49 15	W. 12 R. 10 G. 10	White fiberglass tower.	G. 214° -218°, W.-220°, R.- 224°.
	RACON		Z(- - • •)				(3 & 10cm)
30472 E 6047.4	Bur Safaga Transit Beacon.	26° 44.2' N 33° 56.4' E	Dir.Fl.(2)W.R.G. period 10s	42 13	6	Red steel tower.	G. 306° -310°, W.-312°, R.- 316°.
30474 E 6047.6	-Moorewood.	26° 41.9' N 33° 59.7' E	Fl.(3)G. period 10s	29 9	6	STARBOARD (A) G, tower, topmark.	Radar reflector.
30474.5 E 6047.63	-Spit Reef.	26° 41.3' N 33° 58.5' E	Fl.(3)R. period 10s	29 9	3	PORT (A) R, tower, topmark.	Radar reflector.
30475 E 6047.67	-Handyman Reef.	26° 39.3' N 34° 02.3' E	V.Q.(9)W. period 10s	30 9	5	W. CARDINAL YBY, beacon, topmark.	Radar reflector.
30475.1 E 6047.665	-Sha'b Shear.	26° 39.1' N 34° 06.5' E	V.Q.(3)W. period 5s	18 6	5	E. CARDINAL BYB, beacon, topmark.	Radar reflector.
30475.2 E 6047.68	-Safaga Ulbur.	26° 36.4' N 34° 01.1' E	Fl.W. period 5s	43 13	6	White fiberglass tower, red top.	
30476 E 6047	Al Ikhwan (The Brothers).	26° 18.6' N 34° 50.7' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	119 36	17	White round tower, rectangular dwellings; 102.	
	RACON		B(- • • •)				
30478 E 6048.5	Shi' b Shu' aybah, No. 3.	24° 29.5' N 37° 07.5' E	Fl.(2)W. period 6s	23 7	5	ISOLATED DANGER BRB, beacon.	Reefs to E. marked by beacons Nos. 4, 7, 2, 5, 6.
30479 E 6048.6	-No. 11.	24° 23.6' N 37° 09.5' E	Fl.(2)W. period 20s	23 7	5	ISOLATED DANGER BRB, beacon.	Reefs to E. marked by beacons Nos. 9, 8, 12, 13.
30480 E 6050.1	Al Wajh AVIATION LIGHT.	26° 12.2' N 36° 28.5' E	Al.Fl.W.G. period 5s				
30484 E 6047.7	Al Qusayr.	26° 06.0' N 34° 17.2' E	F.R.		5	Atop transporter.	
30492 E 6048	Daedalus Reef.	24° 55.4' N 35° 51.5' E	Fl.(1+2)W. period 12s fl. 0.2s, ec. 5.2s fl. 0.2s, ec. 1s fl. 0.2s, ec. 5.2s	100 30	15	White round stone tower, black and white bands, on concrete base two-story dwelling.	
	RACON		D(- • •)				
30493 E 6048.7	Sharm al Khaur, No. 20.	24° 14.1' N 37° 39.0' E	Fl.R. period 5s	16 5	2	PORT (A) R, beacon.	Passage into Sharm al Khaur marked by light beacons.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RED SEA							
30494 E 6048.75	-No. 21.	24° 13.8' N 37° 39.3' E	Q.W.	23 7	4	N. CARDINAL BY, beacon.	Reefs to SE. marked by beacons Nos. 22, 23, 24, 26.
30496 E 6048.8	Schermo Reef.	24° 03.3' N 37° 51.5' E	Fl.W. period 5s	33 10	11	Mast on concrete block.	Horn: 1 bl. ev. 20s (bl. 4s, si. 16s).
	RACON		Y(- • - -) period 75s		12		
30497 E 6048.85	-No. 29.	24° 00.6' N 37° 53.0' E	Q.(6)+L.Fl.W. period 15s	23 7	4	S. CARDINAL YB, beacon.	
30498 E 6048.9	Sharm Yanbu W., No. 27.	24° 08.5' N 37° 55.5' E	Fl.R. period 2s	16 5	2	PORT (A) R, beacon.	
30499 E 6048.95	-E. No. 28.	24° 08.4' N 37° 55.8' E	Fl.G. period 2s	16 5	2	STARBOARD (A) G, beacon.	
30500 E 6049	Yanbu, Bn. No. 1.	24° 04.0' N 38° 03.0' E	Q.G.		5	Beacon.	
30504 E 6049.2	-Bn. No. 2.	24° 04.0' N 38° 02.8' E	Q.R.		5	Beacon.	
30508 E 6049.3	-Bn. No. 6.	24° 04.3' N 38° 03.3' E	Fl.R. period 2s		5	Beacon.	
30508.5 E 6049.4	Umm al Nukuth.	24° 01.4' N 38° 02.3' E	Fl.(2)W. period 15s		10	ISOLATED DANGER BRB, beacon, topmark.	
30509 E 6049.42	-No. 30.	23° 57.2' N 37° 57.6' E	Fl.(2)W. period 6s	23 7	5	ISOLATED DANGER BRB, beacon.	
30510 E 6049.46	Shi' b al-Qirin, No. 31.	23° 54.8' N 38° 01.7' E	Q.W.	23 7	4	N. CARDINAL BY, beacon.	
30511 E 6049.48	-No. 33.	23° 52.5' N 38° 04.5' E	Q.(3)W. period 10s	23 7	4	E. CARDINAL BYB, beacon.	
30511.05 E 6049.49	-No. 36.	23° 50.4' N 38° 08.1' E	Q.(9)W. period 15s	23 7	4	W. CARDINAL YBY, beacon.	
30511.1 E 6049.6	-King Fahd Port Range, front.	23° 57.9' N 38° 11.6' E	Q.W.			Red and white structure, black triangular daymark, white stripe, point up.	
30511.2 E 6049.61	--Rear, 220 meters 037° 51' from front.	23° 58.0' N 38° 11.7' E	Iso.W. period 7s			Red and white structure, black triangular daymark, white stripe, point up.	
30511.22 E 6049.7	-Beacon No. 2C.	23° 56.8' N 38° 10.6' E	Q.(6)+L.Fl.W. period 15s			S. CARDINAL YB, beacon, topmark.	
30511.23 E 6049.75	--No. 3C.	23° 57.1' N 38° 11.3' E	Q.G.			STARBOARD (A) G, beacon, topmark.	
30511.24 E 6049.8	--No. 4C.	23° 57.6' N 38° 11.2' E	Fl.(4)R. period 10s			PORT (A) R, beacon, topmark.	
30511.25 E 6049.85	--No. 9C.	23° 58.0' N 38° 11.6' E	Q.(9)W. period 15s			W. CARDINAL YBY, beacon, topmark.	
30511.3 E 6049.9	--Inner Range, front.	23° 58.4' N 38° 11.5' E	Q.W.			Red and white post.	
30511.4 E 6049.91	---Rear, about 160 meters 015° 22' from front.	23° 58.5' N 38° 11.5' E	Iso.W. period 7s			Red and white post.	
30511.5 E 6050	-Beacon No. 14C.	23° 58.2' N 38° 11.7' E	Iso.R. period 2s			PORT (A) R, beacon, topmark.	
30511.51 E 6050.2	--No. 13C.	23° 57.5' N 38° 12.2' E	Q.G.			STARBOARD (A) G, beacon, topmark.	
30511.52 E 6050.35	--No. 19C.	23° 57.4' N 38° 12.4' E	Q.G.			STARBOARD (A) G, beacon, topmark.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RED SEA							
30511.53 <i>E 6050.4</i>	--No. 22C.	23° 57.5' N 38° 12.5' E	Q.R.			PORT (A) R, beacon, topmark.	
30511.54 <i>E 6050.5</i>	--No. 24C.	23° 57.4' N 38° 12.7' E	Fl.R. period 5s			PORT (A) R, beacon, topmark.	
30511.55 <i>E 6050.45</i>	--No. 23C.	23° 57.0' N 38° 12.8' E	Q.(3)W. period 10s			E, CARDINAL BYB, beacon, topmark.	
30511.61 <i>E 6050.6</i>	-Service Harbor, W. breakwater.	23° 57.3' N 38° 12.9' E	Oc.R.				Oc.G. marks E. breakwater.
30511.71 <i>E 6050.7</i>	-Crude Oil Terminal, W. end.	23° 56.6' N 38° 13.3' E	2 F.R. (vert.)				2 F.R. (vert.) mark each end of berths 500 meters NE. and 800 meters E.
30511.72 <i>E 6050.75</i>	--E. end.	23° 56.2' N 38° 14.3' E	2 F.R. (vert.)				Horn: Mo.(U) 30s.
30511.81 <i>E 6050.8</i>	-Beacon No. 26C.	23° 57.0' N 38° 13.5' E	V.Q.R.			Beacon.	
30511.82 <i>E 6050.83</i>	--No. 25C.	23° 56.9' N 38° 13.7' E	V.Q.G.			Beacon.	
30511.83 <i>E 6050.86</i>	--No. 28C.	27° 57.1' N 38° 13.6' E	Q.R.			Beacon.	
30511.84 <i>E 6050.89</i>	--No. 30C.	23° 57.2' N 38° 13.7' E	Oc.R. period 5s			Beacon.	
30511.85 <i>E 6050.92</i>	--No. 32C.	23° 57.1' N 38° 13.8' E	Q.R.			Beacon.	
30511.86 <i>E 6050.95</i>	--No. 34C.	23° 57.0' N 38° 14.2' E	Oc.R. period 10s			Beacon.	
30511.91 <i>E 6051.4</i>	-Yanbu Refinery Terminal, beacon No. 2.	23° 54.8' N 38° 17.5' E	F.G.			STARBOARD (A) G, beacon, topmark.	
30511.92 <i>E 6051.45</i>	--No. 1.	23° 54.9' N 38° 17.3' E	F.R.			PORT (A) R, beacon, topmark.	2 F.R. (vert.) mark berths.
30511.93 <i>E 6051.47</i>	--No. 3.	23° 55.1' N 38° 17.5' E	F.G.			STARBOARD (A) G, beacon, topmark.	
30511.94 <i>E 6051.5</i>	--No. 4.	23° 55.1' N 38° 17.3' E	F.G.			STARBOARD (A) G, beacon, topmark.	
YANBU SOUTHERN APPROACH CHANNEL							
30512 <i>E 6052.5</i>	-Yanbu South.	23° 28.1' N 38° 25.5' E	Fl.W.R. period 10s fl. 0.2s, ec. 9.8s	105 32	W. 20 R. 17	White round metal tower, red bands.	W. 200° -090°, R.-140° , obsc.-200° . Radar reflector.
			RACON	B(- • • •)			
30513 <i>E 6052.46</i>	-No. 43.	23° 31.0' N 38° 21.2' E	Q.(9)W. period 15s	23 7	4	W. CARDINAL YBY, beacon.	
30514 <i>E 6052.48</i>	-Shib as Suflani, No. 44.	23° 30.4' N 38° 14.6' E	Q.(6)+L.Fl.W. period 15s	23 7	4	S. CARDINAL YB, beacon.	
30516 <i>E 6052.4</i>	-Beacon S3.	23° 31.0' N 38° 29.9' E	Fl.(3)G. period 10s	39 12	8	STARBOARD (A) G, beacon, topmark.	Radar reflector.
30520	-RACON, beacon SR2.	23° 34.7' N 38° 27.7' E	TG(- - - •)				
30521 <i>E 6052.36</i>	No. 40.	23° 42.7' N 38° 21.1' E	Q.W.	23 7	4	N. CARDINAL BY, beacon	
30522 <i>E 6052.38</i>	-No. 42.	23° 39.3' N 38° 17.8' E	Q.(9)W. period 15s	23 7	4	W. CARDINAL YBY, beacon.	
30524 <i>E 6052.3</i>	-Beacon, S6.	23° 38.4' N 38° 25.2' E	Fl.(4)R. period 12s	39 12	8	PORT (A) R, beacon, topmark.	Radar reflector.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RED SEA							
30525 E 6051.7	Shi'b as Sabah, No. 32.	23° 52.0' N 37° 53.5' E	Q.W.	23 7	4	N. CARDINAL BY, beacon.	Reefs 3 miles and 9 miles SW. marked by beacons Nos. 34, 35, 39.
30526 E 6051.9	-Mansi No. 41.	23° 38.9' N 38° 02.1' E	Fl.(2)W. period 20s	23 7	5	ISOLATED DANGER BRB, beacon.	
30528 E 6052	-Beacon S7.	23° 41.2' N 38° 28.6' E	Fl.(4)G. period 12s	39 12	8	STARBOARD (A) G, beacon, topmark.	Radar reflector.
30532	-RACON, beacon SR3.	23° 42.9' N 38° 23.2' E	X(- • • -)				
30534 E 6052.2	-No. 37.	23° 45.7' N 38° 17.1' E	Q.(6)+L.Fl.W. period 15s	23 7	4	S. CARDINAL YB, beacon.	Beacon No. 36, Q.(9)W. 15s, 9.9 miles NW.
30535 E 6052.25	-Ra's al Mu'ajiz Oil Terminal Jetty, NW. end.	23° 48.6' N 38° 23.9' E	Mo.(U)G. period 15s		7		3 Mo.(U)R. 15s 8M lights shown from terminal.
30535.1 E 6052.254	--SE. end.	23° 48.1' N 38° 24.5' E	Mo.(U)G. period 15s		7		
RABIGH:							
30536 E 6053	-Shib al Khamsa, No. 12.	22° 44.9' N 38° 37.2' E	Fl.W. period 5s fl. 1s, ec. 4s	65 20	16	S. CARDINAL YB, beacon, topmark.	Radar reflector.
	-RACON		O(- - -)		20		(3 & 10cm)
30540 E 6053.2	-Shib Al Abiyadh. No. 13.	22° 42.7' N 38° 48.3' E	Q.(6)+L.Fl.W. period 15s	39 12	10	S. CARDINAL YB, beacon, topmark.	Radar reflector.
30544 E 6053.4	-Tanta Rock, No. 14.	22° 43.6' N 38° 56.0' E	Q.W.	33 10	8	N. CARDINAL BY, column, topmark.	Radar reflector.
30545 E 6053.5	-No. 11.	22° 39.9' N 38° 59.5' E	Q.(3)W. period 10s			E. CARDINAL BYB, beacon, topmark.	The entrance to Rabigh refinery is marked by lights.
30546	RACON, Al Qadimah	22° 19.6' N 38° 57.6' E	M(- -)				
30547 E 6053.7	Al Qadimah.	22° 20.1' N 39° 04.8' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	23 7	5		
30548 E 6057	Mismari Reef.	21° 19.5' N 39° 01.9' E	Fl.(3)W.R. period 15s	46 14	W. 19 R. -	Black rectangular daymark, white structure.	R. 185°-196°, W.-208°, R.- 025°, W.-185°. Radar reflector.
	RACON		M(- -)		12		
30552 E 6054.4	Juddah (Jidda) AVIATION LIGHT.	21° 40.6' N 39° 08.9' E	Al.Fl.W.G.				
JIDDAH HARBOR:							
30554 E 6054.5	-Jiddah.	21° 28.1' N 39° 09.0' E	Fl.(3)W. period 20s	450 137	25		
30555 E 6054.7	-No. 31.	21° 29.9' N 39° 07.4' E	V.Q.W.	26 8	6	N. CARDINAL BY, beacon, topmark.	Radar reflector.
30556 E 6054.8	-Ra's al Makhbat.	21° 30.1' N 39° 08.1' E	Fl.R. period 2s	26 8	6	Red beacon.	
30560 E 6054.85	-Ra's ash Shi'b.	21° 29.9' N 39° 08.3' E	Fl.G. period 2s	26 8	6	Green beacon.	
30572 E 6055.2	-Shi'b Qaham.	21° 27.2' N 39° 06.7' E	Fl.W.R.G. period 2.5s fl. 0.2s, ec. 2.3s	46 14	W. 14 R. - G. -	White structure, black rectangular daymark.	W. 128°-178°, R.-010°, G.- 039°, W.-064°, R.-128°. Radar reflector.
	-RACON		T(-)				

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RED SEA							
30576 <i>E 6054.6</i>	-Shi'b Jahan.	21° 28.5' N 39° 07.2' E	Fl.W.R.G. period 5s	46 14	15	White structure, red rectangular daymark.	G. 129° -165°, R.-027°, W.-044°, R.-093°, W.-129°. Radar reflector.
30580 <i>E 6055.3</i>	-Middle Gateway, N. beacon.	21° 28.0' N 39° 07.9' E	Fl.R. period 3s			PORT (A) R, beacon, topmark.	Intensified 075° -105°. Radar reflector.
30584 <i>E 6055.35</i>	--S. beacon.	21° 27.9' N 39° 07.9' E	Fl.G. period 3s			STARBOARD (A) G, beacon, topmark.	Intensified 075° -105°. Radar reflector.
30588 <i>E 6055.4</i>	-Inner Gateway, N. side.	21° 28.0' N 39° 08.8' E	Fl.(2)R. period 6s			PORT (A) R, beacon, topmark.	Intensified 075° -105°. Radar reflector.
30592 <i>E 6055.45</i>	-Inner Gateway, S. side.	21° 27.8' N 39° 09.0' E	Fl.(2)G. period 6s			STARBOARD (A) G, beacon, topmark.	Intensified 075° -105°. Radar reflector.
30593 <i>E 6055.5</i>	-Ship Repair Yard.	21° 28.8' N 39° 09.0' E	2 U.Q.R. (vert.)	20 6	3	Framework tower.	
30594 <i>E 6055.55</i>	--Dolphin A.	21° 28.6' N 39° 09.0' E	U.Q.R.	10 3	4	Dolphin.	
30595 <i>E 6055.6</i>	--Dolphin B.	21° 28.6' N 39° 09.0' E	U.Q.R.	10 3	4	Dolphin.	
30596 <i>E 6055.9</i>	-Approaches, No. 1A.	21° 22.8' N 39° 06.5' E	Fl.G. period 3s		5		Horn.
30597 <i>E 6055.95</i>	--N. side.	21° 23.4' N 39° 06.4' E	Fl.R.				
30598 <i>E 6056</i>	--No. 2A.	21° 23.5' N 39° 08.0' E	Fl.G. period 5s		3		
30599 <i>E 6056.05</i>	--No. 2B.	21° 24.1' N 39° 07.9' E	Fl.R. period 6s		5		Horn.
30600 <i>E 6056.36</i>	-Pier 5, No. 13.	21° 25.7' N 39° 10.3' E	Fl.Y.				
30601 <i>E 6056.37</i>	-No. 14.	21° 25.8' N 39° 10.5' E	Oc.Y.				
30602 <i>E 6056.2</i>	--No. 1E.	21° 24.7' N 39° 08.9' E	Q.G.		3		Channel marked by lighted buoys and beacons.
30603 <i>E 6056.25</i>	--No. 2E.	21° 24.7' N 39° 08.9' E	Q.R.		3		
30603.5 <i>E 6056.45</i>	-Explosives pier, approach channel, No. A-1E.	21° 23.7' N 37° 08.8' E	Fl.G. period 3s		3		
30603.6 <i>E 6056.5</i>	--No. A-2E.	21° 23.8' N 37° 08.9' E	Fl.R. period 2s		3		Horn.
30604 <i>E 6054</i>	Shi'b al Kabir.	21° 40.9' N 38° 50.5' E	Fl.W.R.G. period 10s	46 14	W. 19 R. - G. -	White tripod, red band.	W. 327° -118°, G.-163°, R.-327°.
	RACON		K(- • -)		17		
30605 <i>E 6048.14</i>	Shap Ras Banas Beacon.	23° 51.1' N 35° 46.5' E	Fl.R. period 5s		16.		
30605.1 <i>E 6048.12</i>	Jazirat Sirnakah Beacon.	23° 49.8' N 35° 48.4' E	Fl.G. period 3s	23 7	3	Metal tower.	
30605.2 <i>E 6048.11</i>	Horseshoe Reef Beacon.	23° 48.6' N 35° 47.9' E	Fl.R. period 3s	23 7	3	Metal tower.	
30605.4 <i>E 6048.15</i>	Sandy Beacon.	23° 55.5' N 35° 30.6' E	Fl.W. period 5s	16 5	3		
30605.5 <i>E 6048.155</i>	Baranis Beacon.	23° 56.2' N 35° 29.8' E	Fl.G. period 3s	23 7	3	Metal tower.	
30606 <i>E 6048.2</i>	Marsa Halaib.	22° 14.6' N 36° 39.4' E	Fl.R. period 4s	13 4	3	Beacon.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RED SEA							
30608 <i>E 6058</i>	Abington Reef.	20° 53.6' N 37° 27.0' E	Fl.(2)W. period 18s fl. 0.5s, ec. 5s fl. 0.5s, ec. 12s	99 30	15	Brown framework tower, concrete base.	Visible except where obscured by Makawwar Island.
30612 <i>E 6058.5</i>	Sanganeb Reef.	19° 43.4' N 37° 26.5' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	165 50	19	Round concrete tower, white lantern and dwelling.	Diaphone: 1 bl. ev. 30s (bl. 3s, si. 27s).
30616 <i>E 6059.2</i>	Wingate Reef (Su) S. extremity.	19° 37.1' N 37° 17.2' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	27 8	6	Black metal framework tower, white hut, on piles on concrete base; 26.	
30620 <i>E 6059</i>	Wingate Reef, E. beacon.	19° 38.6' N 37° 19.4' E	Fl.(3)W. period 15s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 8.5s	23 7	6	Black and white checkered concrete tower, 23.	
RACON			Q(- - • -)				
30628 <i>E 6063.2</i>	-Entrance.	19° 36.3' N 37° 14.3' E	Fl.(2)G. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	26 8	4		
BUR SUDAN (PORT SUDAN):							
30632 <i>E 6060</i>	-Damma Damma, S. side of entrance.	19° 35.8' N 37° 14.6' E	Q.R.	26 8	6	Red and white checkered metal framework tower, concrete base.	
30636 <i>E 6059.4</i>	-S. side of entrance.	19° 35.3' N 37° 14.9' E	Fl.(2)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 8s	63 19	10	Stone tower, white band; 72.	
30640 <i>E 6064</i>	-Head of second coral pier, N. side of entrance.	19° 36.3' N 37° 14.1' E	F.G.	26 8	3	Green concrete column, white bands; 22.	Obscured northward of 281° .
30644 <i>E 6062</i>	-East Town.	19° 36.7' N 37° 13.9' E	F.G.	101 31	8	S. water tower; 126.	Visible 330° -150° . On request. F.W.R. (Occas) marks head of jetty 0.4 mile NW.
30648 <i>E 6061</i>	-W. shore of harbor Range, front.	19° 36.7' N 37° 13.4' E	F.R. (neon)			Red iron framework tower; 113.	Visible 260° -320° .
30652 <i>E 6061.1</i>	--Rear, 969 meters 305° from front.	19° 37.0' N 37° 13.0' E	F.R. (neon)			Red iron framework tower, white band; 157.	Visible 260° -320° .
30656 <i>E 6067</i>	-Range, front.	19° 36.7' N 37° 13.6' E	2 F.G.	17 5			Marks the anchor berths in key anchorage and should not be used for navigating the channel. Occasional.
30660 <i>E 6067.1</i>	--Rear, 197 meters 314° 18' from front.	19° 36.8' N 37° 13.5' E	2 F.G.	68 21			Occasional.
30662 <i>E 6068</i>	-S. anchorage.	19° 36.7' N 37° 13.8' E	2 F.G. (horiz.)			Port offices, S. end.	
30662.5 <i>E 6068.2</i>	-N. anchorage.	19° 36.7' N 37° 13.8' E	2 F.G. (horiz.)			Port offices, middle.	
30664 <i>E 6065</i>	-Head of Quay, S. side of harbor within entrance.	19° 36.6' N 37° 13.8' E	Fl.R. period 3s	26 8	5	Iron framework structure.	F.R. over F.G. at pilot lookout indicates vessels should not approach within 1 mile of harbor entrance.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RED SEA							
NORTH TOWARTIT REEF ANCHORAGE:							
30668 E 6076	-N. beacon.	19° 30.6' N 37° 19.2' E	Q.R.	26	8	4 White steel framework tower, black bands, checkered base; 27.	
	-RACON		D(- • •)				
30672 E 6076.2	-E. beacon.	19° 30.0' N 37° 20.0' E	Fl.W. period 7.5s fl. 0.7s, ec. 6.8s	27	8	5 Red steel framework structure, on concrete base, white bands; 28.	
30676 E 6076.4	-S. beacon.	19° 29.0' N 37° 20.0' E	Fl.G. period 10s fl. 1s, ec. 9s	25	8	5 Black steel framework structure, black base, white stripes; 26.	
30680 E 6076.6	-Elbow beacon.	19° 29.3' N 37° 17.8' E	Fl.(4)W. period 20s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 15s	21	6	6 Red steel framework structure on concrete base, red and white checkers; 21.	
30682 E 6077	Sawakin Channel, No. 1.	19° 26.0' N 37° 18.2' E	Fl.G. period 5s	26	8	5 Red framework tower on white concrete base, black band.	
30682.05 E 6077.1	-Bashayer Terminal SPM.	19° 24.2' N 37° 19.5' E	Mo.(U)W.			Cantenary anchor leg mooring.	Horn: Mo.(U).
	-RACON		D(- • •)				
30682.07 E 6077.15	--Jetty, head.	19° 24.5' N 37° 18.4' E	Fl.W. period 5s	33	10		
30682.1 E 6077.2	-No. 2.	19° 22.0' N 37° 19.3' E	Fl.(2)G. period 10s	26	8	7 Black framework tower, white bands, on black concrete base, white stripes.	
30682.2 E 6077.6	-No. 3.	19° 14.3' N 37° 20.4' E	Fl.(3)G. period 15s	26	8	7 Black framework tower, white bands, on black concrete base.	
30683 E 6076.8	-No. 4.	19° 28.1' N 37° 19.5' E	Q.R.	26	8	5 Red framework tower on red concrete base.	
30683.1 E 6077.05	-No. 5.	19° 24.8' N 37° 20.4' E	Fl.R. period 5s	26	8	5 Red framework tower on red concrete base, white bands.	
30683.2 E 6077.4	-No. 6.	19° 18.3' N 37° 22.5' E	Fl.(2)R. period 10s	26	8	5 Red framework tower on red concrete base, white stripes.	
30683.3 E 6077.5	-No. 7.	19° 16.5' N 37° 23.2' E	Fl.(3)R. period 15s	26	8	5 Red framework tower on red concrete base, white stripes.	
	-RACON		B(- • • •)				
30683.4 E 6077.7	-No. 8.	19° 13.3' N 37° 23.1' E	Q.W.	26	8	5 Red framework tower on red concrete base.	
30683.5 E 6077.8	-No. 9.	19° 09.7' N 37° 24.4' E	Fl.W. period 10s	26	8	5 Red framework tower on red concrete base, white bands.	
	-RACON		Q(- • • -)				
30683.6 E 6077.57	-Williamson Shoals, S.	19° 17.8' N 37° 27.5' E	Fl.(2)W. period 5s	30	9	5 Red and white metal framework tower.	
30683.7 E 6077.65	-Al Mansuriyah, NW.	19° 13.8' N 37° 23.3' E	Fl.R. period 5s	33	10	5 Red metal framework tower, white bands, on red base.	
30683.8 E 6078.7	-Sawakin Harbor, entrance, N.	19° 08.5' N 37° 21.9' E	Fl.(2)W. period 5s	26	8	5 Black and white metal framework tower on base.	Channel marked by beacons.
30684 E 6078	Hindi Gider, W. side.	19° 23.0' N 37° 54.8' E	Fl.(2)W. period 20s fl. 0.8s, ec. 1s fl. 0.8s, ec. 17.4s	87	27	10 Red metal framework structure.	

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RED SEA							
30685 <i>E 6078.5</i>	N. Jumah Shoal.	19° 26.5' N 37° 43.8' E	Fl.(3)W. period 10s	36 11			
30688 <i>E 6082</i>	Masamirit, E. side.	18° 49.6' N 38° 45.5' E	Fl.W. period 10s fl. 1s, ec. 9s	86 26	10	Red steel framework structure.	
30692 <i>E 6088</i>	Difnein Island.	16° 37.2' N 39° 19.5' E	Fl.(2)W. period 10s	144 44	10	White metal tower with tripod, black bands; 126.	Reserve light F.W. 7M.
30696 <i>E 6090</i>	Sheik al Abu Island.	16° 01.9' N 39° 26.2' E	Fl.W. period 10s fl. 1s, ec. 9s	61 19	9	Square pyramidal iron framework tower, black and white bands; 56.	Visible 277° -187° .
MASSAUA ISLAND:							
30700 <i>E 6096</i>	-Ras Mudur.	15° 36.6' N 39° 28.9' E	Iso.W. period 4s	85 26	14	Black round metal tower, white bands; 72.	Visible 150° -310° .
30704 <i>E 6100</i>	-S. breakwater, head.	15° 36.9' N 39° 28.8' E	Fl.R. period 3s fl. 1s, ec. 2s	23 7	7	White concrete tower, red bands; 8.	Traffic signals 0.2 mile SW.
30708 <i>E 6102</i>	-Abd El Kader, head of breakwater, N. side of entrance.	15° 37.0' N 39° 28.9' E	Fl.G. period 3s fl. 1s, ec. 2s	22 7	7	White concrete tower, green bands; 16.	
30720 <i>E 6104</i>	-Harbor Range, front.	15° 36.6' N 39° 28.1' E	F.R.	40 12	6	White metal framework tower, black bands, on white square concrete base; 33.	Visible 228° 30' -258° 30' .
30724 <i>E 6014.1</i>	--Rear, 128 meters 243° 30' from front.	15° 36.6' N 39° 28.1' E	F.R.	57 17	8	White metal framework tower, black bands, on white square concrete base; 50.	Visible 239° 30' -247° 30' .
30728 <i>E 6114</i>	Madote Island, SW. part.	15° 34.7' N 39° 45.7' E	Fl.W. period 5s fl. 1s, ec. 4s	49 15	9	Pyramidal steel framework tower, black and white bands; 43.	
30732 <i>E 6116</i>	Assarka Island.	15° 32.2' N 39° 55.0' E	Fl.W. period 2s fl. 0.5s, ec. 1.5s	32 10	9	Square steel framework tower, black and white bands; 25.	
30736 <i>E 6120</i>	Shumma Island, S. head.	15° 31.6' N 40° 00.3' E	Fl.(3)W. period 20s fl. 0.7s, ec. 1.5s fl. 0.7s, ec. 1.5s fl. 0.7s, ec. 14.9s	108 33	9	White round iron tower; 72.	
30740	<i>Gizan N. Light Buoy.</i>	16° 56.6' N 41° 17.6' E	Iso.W. period 8s			SAFE WATER RW, pillar, topmark.	
RACON			G(---•) period 60s				
30743 <i>E 6138.1</i>	Al Baghlah.	16° 57.0' N 41° 24.0' E	Fl.(2)W. period 10s	23 7	5	White beacon.	
30744 <i>E 6138</i>	-Off SW. end.	16° 56.6' N 41° 23.5' E	Fl.W. period 4s	39 12	10	Tripod; 39.	
30748 <i>E 6138.2</i>	Gizon, Middle Beacon.	17° 16.8' N 41° 33.2' E	Fl.(3)W. period 12s		12	Red beacon.	
RACON			N(-•) period 90s		10		
30752 <i>E 6138.4</i>	-Ghurab.	17° 06.3' N 42° 04.0' E	Fl.W. period 4s		10	Red beacon.	
-RACON			B(-••••) period 90s		10		
30756 <i>E 6138.7</i>	Gizan Harbor Range, front.	16° 52.9' N 42° 32.2' E	Q.R.				
30760 <i>E 6138.71</i>	-Rear, 300 meters 096° 30' from front.	16° 52.9' N 42° 32.4' E	Fl.R. period 2s				

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RED SEA							
30768 E 6138.8	-N. breakwater.	16° 53.1' N 42° 31.7' E	Q.R.		26 8	Red framework tower.	
30772 E 6138.9	-S. breakwater.	16° 53.0' N 42° 31.5' E	Q.G.		23 7	Green framework tower.	2 Mo.(U)W. mark end of pier 1.7 miles SE.
30776 E 6139	-Small craft harbor, N. breakwater, head.	16° 53.8' N 42° 32.1' E	Fl.R. period 6s			5	
30780 E 6139.2	--S. breakwater, head.	16° 53.7' N 42° 32.1' E	Fl.G. period 6s			5	
30784 E 6139.5	Dawharab.	16° 19.2' N 41° 58.1' E	Fl.W. period 4s		49 15	10 Green daymark.	<i>Note: Gizan Southern Approach Channel closed until further notice. Radar reflector.</i>
30788 E 6138.6	Mazarkiff Island.	16° 34.6' N 42° 21.7' E	Fl.(3)W. period 12s			15	Red tripod daymark.
30790 E 6138.5	Sulain Island.	16° 45.6' N 42° 12.8' E	Fl.W. period 10s				Beacon.
30796 E 6144.2	Ugban Island.	15° 30.0' N 42° 23.0' E	Fl.(2)W. period 10s		85 26	12 White round tower.	
KAMARAN:							
30800 E 6144	-Jebel Yemen.	15° 17.4' N 42° 34.9' E	Fl.(3)W. period 15s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 9s		131 40	10 White tubular framework tower on three concrete pillars; 59.	
30804 E 6145.4	-Ras el Salif.	15° 19.0' N 42° 40.3' E	Q.(2)W. period 3s		20 6	5 White round tower; 20.	Radar reflector.
30808 E 6144.8	-Kamaran Island, N. end.	15° 27.3' N 42° 37.6' E	Fl.(2)W. period 7.5s		26 8	5 White round tower, concrete base; 19.	Radar reflector.
30812 E 6145.2	-Harrison Shoal.	15° 29.0' N 42° 41.0' E	Fl.R. period 5s		20 6	5 White tower, red topmark.	
30816 E 6144.6	-NW. Patches.	15° 27.5' N 42° 33.3' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s		20 6	5 White tower, red topmark.	
30820 E 6145	-Lansdown Shoal.	15° 31.0' N 42° 33.0' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s		20 6	5 White tower, black topmark.	
30824 E 6145.3	Khawbah, fishing harbor.	15° 32.0' N 42° 44.0' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s				
30828 E 6144.4	-Iqban Saghir.	15° 25.1' N 42° 31.4' E	Fl.Y. period 5s		16 5	7 Black round tower, red bands.	
30828.5 E 6143	As Salif Approach, Rashshah.	15° 10.5' N 42° 34.2' E	Fl.W. period 7s		29 9	6 Metal framework tower on concrete pillars, white daymark, black top; 26.	
30829 E 6141	Zubair Islands, Center Peak Island.	15° 00.9' N 42° 09.8' E	Fl.W. period 10s		505 154	12 Concrete tower; 46.	<i>Temporarily extinguished (2006).</i>
30832 E 6122	Umm es Sahrig Island.	15° 04.7' N 40° 30.2' E	Fl.W. period 8s		88 27	9 Square steel framework tower, black and white bands; 56.	
30840 E 6124	Sha' b Shakhs.	14° 38.7' N 41° 06.9' E	Fl.(2)W. period 22s		125 38	9 White tripodal metal tower, black band; 121.	
30842 E 6142.9	Hanish Al Kabir, NE. end.	13° 46.3' N 42° 47.1' E	Fl.(2)W. period 12s			14 Red framework tower, white top; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RED SEA							
AL MOCHA:							
30844 <i>E 6149</i>	-Mokha, Range, front.	13° 18.6' N 43° 14.1' E	V.Q.W.		9		
30848 <i>E 6149.1</i>	--Rear, 370 meters 137° from front.	13° 18.5' N 43° 14.2' E	Iso.W. period 2s		9		
30852 <i>E 6149.2</i>	-Breakwater, head.	13° 18.9' N 43° 13.6' E	Fl.G. period 3s		4		
BAIA DI ASSAB:							
30856 <i>E 6128</i>	-Ras Fatma.	13° 02.5' N 42° 52.4' E	Fl.(3)W. period 26s	95 29	10	Black round masonry tower, white bands; 89.	Reserve light F.W. 7M.
30860 <i>E 6132</i>	-Ras Gombo.	13° 01.4' N 42° 44.9' E	Fl.(2)W. period 10s	75 23	11	White tower, black bands; 43.	Reserve light F.W. 7M.
30864 <i>E 6134</i>	-Detached breakwater, N. head.	13° 00.1' N 42° 45.2' E	Fl.R. period 3s	15 5	5	White round tower, red bands.	
30868 <i>E 6134.2</i>	--S. head.	12° 59.7' N 42° 45.0' E	Q.G.	15 5	5	White round tower, green bands.	
30872 <i>E 6135</i>	-N. jetty, head.	13° 00.1' N 42° 45.1' E	F.G.	15 5	5	White round tower, green bands.	
30876 <i>E 6148.6</i>	Fishing harbor.	14° 46.9' N 42° 56.7' E	Q.(2)G. period 6s				
30892 <i>E 6142</i>	Abu Ali Islands.	14° 05.0' N 42° 49.0' E	Fl.(2)W. period 10s	340 104	13	White square building, name on side; 30.	
BARIM (PERIM):							
30896 <i>E 6152</i>	-Balfe Point, W. extremity of island.	12° 39.7' N 43° 23.2' E	Fl.W. period 4s	44 13	11	Black lantern on stone tower; 26.	Visible 343° -192°.
30900 <i>E 6150</i>	-High Light.	12° 39.3' N 43° 25.9' E	Fl.(4)W. period 15s fl. 0.2s, ec. 2.1s fl. 0.2s, ec. 2.1s fl. 0.2s, ec. 2.1s fl. 0.2s, ec. 7.9s	278 85	24	Gray stone tower, embattled wall, white lantern; 81.	AIS.
GULF OF ADEN							
30902 <i>D 7318</i>	Ra's al Hadd.	22° 32.0' N 59° 47.9' E	Fl.W. period 10s	138 42	18	Red and white framework tower; 125.	
					25		
RACON T(-)							
30903 <i>D 7316</i>	-Masirah AVIATION LIGHT.	20° 40.3' N 58° 53.3' E	F.R.	89 27	8	Control tower.	F.R. lights on radio masts NE. and W.
30903.2 <i>D 7316.2</i>	-Ra's Hilf, Milcon, jetty, SW. corner.	20° 41.2' N 58° 52.2' E	Fl.R. period 4s	16 5	3	Metal column.	Fl.R. 4s 3M shown on dolphins close N. and S.
30903.4 <i>D 7317</i>	-Hilf, Fish factory, breakwater, N. head.	20° 39.0' N 58° 51.9' E	Fl.G. period 5s	20 6	4	Metal post; 10.	
30903.6 <i>D 7317.2</i>	--N. dolphin.	20° 39.0' N 58° 51.8' E	Fl.R. period 3s	26 8	3	Metal post; 13.	Fl.Y. 3s marks walkway. Fl.(2)R. 5s shown on dolphin SW. Fl.Y. 5s shown on inner jetty SW.
30903.8 <i>D 7317.7</i>	-Ras an Nuqdah.	20° 44.5' N 58° 44.9' E	Fl.(2)W. period 6s	26 8	5	Gray metal post; 10.	

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GULF OF ADEN							
30904 <i>D 7313</i>	Nishtun Port.	15° 49.2' N 52° 11.9' E	Fl.W. period 9s fl. 1s, ec. 8s	138 42	18	Red tower, white band; 36.	
30908 <i>D 7313.2</i>	-Breakwater, head.	15° 49.2' N 52° 11.7' E	Fl.R. period 3s fl. 1s, ec. 2s	16 5	4	Concrete pillar; 7.	
PORT SALALAH:							
30909 <i>D 7314</i>	-Breakwater, head.	16° 57.0' N 54° 01.8' E	Iso.W. period 4s	43 13	9	Gray metal post; 36.	
30910 <i>D 7314.08</i>	-Container Berth, E. end, No. 6.	16° 57.1' N 54° 01.2' E	Iso.G. period 4s	20 6	3	Gray metal post; 13.	
30910.5 <i>D 7314.5</i>	--W. end.	16° 56.6' N 54° 00.0' E	Fl.Y. period 5s	7 2	3		
30911 <i>D 7314.2</i>	-Inner Channel, 234.2° .	16° 56.1' N 54° 00.3' E	Dir.F.W.R.G.	131 40	5	Gray metal framework tower; 6.	G. 228.2° -232.7° , W.- 235.7° , R.-240.2° . 2M range during day.
30911.5 <i>D 7314.45</i>	-Berth No. 23/24.	16° 56.4' N 54° 00.4' E	Fl.R. period 5s	20 6	3	Gray metal post; 10.	2M range during day.
30913.6 <i>D 7314.3</i>	-Main Channel, 279° .	16° 57.7' N 53° 59.9' E	Dir.W.R.G.	49 15	10	Gray metal framework tower; 39.	F.G. 277.7° -278.5° , Al.W.G.- 278.7° , F.W.-279.7° , Al.W.R.-280° , F.R.- 280.7° . 4M range during day.
30913.7 <i>D 7314.6</i>	-Fishery Harbor, S. breakwater.	16° 57.7' N 54° 00.2' E	L.Fl.R. period 8s	20 6	4	Gray metal post in cage; 7.	
30913.8 <i>D 7314.7</i>	--N. breakwater.	16° 57.7' N 54° 00.2' E	L.Fl.G. period 8s	20 6	4	Gray metal post in cage; 7.	
30913.9 <i>D 7314.55</i>	-Ra's Raysut.	16° 55.8' N 54° 00.3' E	Fl.W. period 10s	161 49	20		
30914 <i>D 7315</i>	Marbat.	16° 59.3' N 54° 41.1' E	Fl.G. period 9s	23 7	6		
30920 <i>D 7312</i>	Al Mukalla.	14° 31.3' N 49° 08.8' E	Fl.W. period 5s		15	White round tower, green bands.	
30921 <i>D 7312.2</i>	-N. breakwater, head.	14° 31.4' N 49° 08.9' E	L.Fl.R. period 10s				
30923 <i>D 7311.23</i>	Balhaf.	13° 58.9' N 48° 11.2' E	Fl.W. period 5s	295 90	20		
RACON			B(- • • •)				
ADEN:							
30928 <i>D 7311</i>	-Airport.	12° 52.3' N 45° 00.3' E	Aero.Oc.R. period 2s	236 72	10		Reserve light F.R. Obstruction light.
30932 <i>D 7311.2</i>	--Airport, N.W.	12° 51.1' N 45° 02.9' E	Aero.Oc.R. period 2s	180 55	10		Obstruction light.
30936 <i>D 7304</i>	-Ras Marshag.	12° 45.8' N 45° 03.2' E	Oc.W. period 5s fl. 3s, ec. 2s	244 74	23	White tower, black band; 85	Obscured westward by Ras Tah signal station. AIS.
30940 <i>D 7308</i>	-Elephants Back.	12° 45.9' N 44° 59.3' E	Fl.W.R. period 2.5s fl. 0.2s, ec. 2.3s	188 57	W. 26 R. 22	White round stone building; 13.	R. 306° -322° , W.-061° , R.- 119° , obscured elsewhere. AIS.
30944 <i>D 7309</i>	-Ras Marbut, breakwater, head.	12° 47.4' N 44° 58.2' E	L.Fl.G. period 5s fl. 2s, ec. 3s		10	Green fiberglass tower.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
GULF OF ADEN							
30945 <i>D 7310</i>	-Inner Harbor, Aden Gulf Terminal, head.	12° 48.0' N 45° 00.1' E	Fl.R.G. period 4s		4	Metal post.	R. 036.5° -126.5°, G.-216.5° .
30948 <i>D 7301</i>	-Jazirat Salil.	12° 44.3' N 44° 55.0' E	Fl.(2)R. period 15s	65 20	3	White tower; 13.	Difficult to distinguish.
30949 <i>D 7302.3</i>	-Breakwater.	12° 45.9' N 44° 55.3' E	L.Fl.R. period 5s fl. 2s, ec. 3s		10	Red metal column; 20.	
30949.1 <i>D 7303</i>	-Pier, head, N.	12° 46.0' N 44° 55.0' E	F.R.		3	Post; 7.	
30949.2 <i>D 7303.2</i>	--S.	12° 46.0' N 44° 55.0' E	F.G.		3	Post; 7.	
30950 <i>D 7302</i>	-Range, front.	12° 47.1' N 44° 53.6' E	Iso.G. period 2s	33 10	10	Metal framework tower, black double diamond topmark, white bands, 59.	Obstruction lights on masts 2.5 miles NNE.
30951 <i>D 7302.1</i>	--Rear, 0.5 mile 300° from front.	12° 47.3' N 44° 53.1' E	Iso.G. period 2s	85 26	10	Metal framework tower, black double diamond topmark, white bands, 85.	Synchronized with front.
30952 <i>D 7272</i>	Ras Bir.	11° 58.9' N 43° 21.7' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	243 74	20	White round concrete tower, red top; 164.	
30956 <i>D 7274</i>	-Obock Range, front.	11° 58.8' N 43° 17.8' E	Q.W.	72 22	5	Black and white checkered tower on fort; 26.	
30960 <i>D 7274.1</i>	--Rear, about 700 meters 337° 48' from front.	11° 59.2' N 43° 17.6' E	Q.W.	131 40	5	White tower, black bands; 23.	
30964 <i>D 7273</i>	Obock.	11° 57.6' N 43° 18.0' E	Fl.R. period 4s fl. 1s, ec. 3s	10 3	8	White square tower, red top.	
30968 <i>D 7275</i>	Ile Moucha, NE. point.	11° 43.8' N 43° 12.8' E	Fl.(3)R. period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	66 20	10	Metal framework tower on house; 56.	
30970 <i>D 7275.5</i>	Air France.	11° 44.7' N 43° 10.2' E	Q.W.		5	N. CARDINAL BY, beacon, topmark.	
30972 <i>D 7276</i>	Ile Maskali, W. point.	11° 42.8' N 43° 08.9' E	Fl.(2)W. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	79 24	10	Red round metal tower; 66.	May be obscured by sand storms.
TADJOURA (F):							
30980 <i>D 7294</i>	-Entrance Range, front, L-shaped jetty, head.	11° 47.0' N 42° 52.9' E	Q.G.		2		
30984 <i>D 7294.1</i>	--Rear, near root, about 120 meters 003° from front.	11° 47.1' N 42° 52.9' E	Q.G.		2		
DJIBOUTI:							
30986 <i>D 7283.5</i>	-Doraleh Oil Jetty, W.	11° 36.2' N 43° 04.7' E	V.Q.R.		6		Three lit floating beacons close S.
30986.1 <i>D 7283.52</i>	--E.	11° 36.2' N 43° 04.9' E	V.Q.R.		6		
30988 <i>D 7280</i>	-Entrance Range, front, near Riviere Amboule.	11° 33.7' N 43° 07.4' E	Dir.Q.W.	66 20	17	White chevrons on panel, red top.	Intensified 003° on each side of range line. May be obscured by sandstorms.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
GULF OF ADEN							
30992 D 7280.1	--Fort Ayabele, rear, 1020 meters 184° 24' from front.	11° 33.2' N 43° 07.4' E	Dir.Q.W.	105 32	19	Panel with white bands and red ends.	Intensified 003° on each side of range line. May be obscured by sandstorms.
30996 D 7286	-Port du Heron Range, front.	11° 36.9' N 43° 08.7' E	Q.R.			Metal framework tower.	
31000 D 7286.1	--Rear, 210 meters 073° from front.	11° 36.9' N 43° 08.8' E	Q.R.			Metal framework tower.	
31004 D 7285	-Le Heron.	11° 36.7' N 43° 07.9' E	Fl.R. period 4s fl. 1s, ec. 3s		7	Red beacon.	Visible 268° -118° .
31008 D 7284	-Recif d'Ambouli, near E. end.	11° 36.6' N 43° 07.3' E	Fl.G. period 4s fl. 1s, ec. 3s	10 3	2	White pyramid.	
31012 D 7289	-SW. corner Mole du Fontainbleau.	11° 36.4' N 43° 07.8' E	2 F.R. (vert.)	20 6	2	Metal framework tower.	
31016 D 7289.2	-SE. corner Mole du Fontainbleau.	11° 36.3' N 43° 08.0' E	F.R.	20 6	2	Metal framework tower.	
31020 D 7292	-Jeteo du Marabout Range, front.	11° 36.6' N 43° 08.2' E	2 F.R. (vert.)				Marks E. limit of dredged channel.
31024 D 7292.1	--Rear, 61 meters 023° from front.	11° 36.6' N 43° 08.2' E	2 F.R. (vert.)				
31028 D 7287	-NW. corner Government Jetty Range, front.	11° 36.2' N 43° 08.2' E	Dir.Oc.(2)W.R.G. period 6s lt. 1s, ec. 1s lt. 3s, ec. 1s	43 13		Metal framework tower.	G. 098° -099° 18' , W.-100° 42' , R.-102° . Occasional.
31032 D 7288	-Banc des Salines, off E. end.	11° 36.1' N 43° 07.6' E	Fl.(3)G. period 12s	10 3	2	White square beacon.	
31036 D 7283	-AVIATION LIGHT.	11° 33.1' N 43° 09.1' E	Aero.Fl.(3+1)W. period 7s fl. 0.3s, ec. 0.4s fl. 0.3s, ec. 0.4s fl. 0.3s, ec. 2.5s fl. 0.3s, ec. 2.5s	82 25	22	Hangar; 49.	Occasional.
BERBERA:							
31040 D 7264	-Tamar Point.	10° 26.6' N 44° 58.9' E	Fl.W. period 9s	74 23	6	Framework tower, white column, black bands.	Radar reflector.
31044 D 7263	-South of bay.	10° 25.2' N 44° 58.5' E	Oc.W. period 4s lt. 3s, ec. 1s	71 22	7	White tower, black bands.	
31048 D 7266	-Customs pier Range, front.	10° 26.7' N 45° 00.3' E	Oc.R. period 4s lt. 3s, ec. 1s				
31052 D 7266.1	--Rear, 180 meters 068° from front.	10° 26.7' N 45° 00.4' E	Q.R.			Metal framework tower, white diamond daymark; 59.	
BENDER CASSIM (BOSASO):							
31056 D 7260	-Range, front.	11° 17.1' N 49° 10.8' E	F.R.	33 10	5	Black and white checkered lamppost on masonry base; 28.	
31060 D 7260.1	--Rear, about 183 meters 148° from front.	11° 17.1' N 49° 11.0' E	F.R.	51 16	6	Black and white banded tower; 44.	
31064 D 7258	Candala.	11° 28.0' N 49° 52.0' E	L.Fl.(3)W. period 30s fl. 2s, ec. 5s fl. 2s, ec. 5s fl. 2s, ec. 14s		8	Residence.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
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GULF OF ADEN

31068 <i>D 7256</i>	Alula, on residence.	11° 58.0' N 50° 45.0' E	Fl.(2)W. period 16s fl. 1s, ec. 2s fl. 1s, ec. 12s	51 16	12	White iron framework structure; 44.	Unreliable.
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Section 20

East Coast of Africa

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOMALIA							
31072 <i>D 7246</i>	Cape Guardafui.	11° 50.0' N 51° 16.7' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	864 263	18	Round masonry tower on square base; 64.	
31076 <i>D 7242</i>	Ras Hafun, E. point.	10° 26.6' N 51° 24.8' E	Fl.(2)W. period 35s fl. 3s, ec. 4s fl. 3s, ec. 25s	351 107	4	White column on white building, red lantern; 42.	Visible 146° -020° , obscured within 0.8 mile 230° - 310° .
31080 <i>D 7239</i>	Bandar Beila.	9° 29.0' N 50° 49.0' E	F.W.			8	
31084 <i>D 7238</i>	Eil Marina.	7° 58.0' N 49° 51.0' E	FR.	328 100	5	Black and white striped prismatic column; 16.	
31088 <i>D 7236</i>	Obbia (Obiat).	5° 21.0' N 48° 31.0' E	Fl.(3)W. period 10s	105 32	10	Square hut, black and white bands; 33.	Reserve light Fl.W. 5M.
31092 <i>D 7230</i>	Cadale (Itala), E. corner of residence.	2° 45.7' N 46° 19.6' E	Fl.W. period 3s	41 12	8	Gray iron framework; 7.	
MUQDISHO (MOGADISHU):							
31096 <i>D 7218</i>	-Muqdisho.	2° 02.3' N 45° 20.0' E	Fl.W. period 12.5s fl. 1s, ec. 11.5s	243 74	32	White masonry tower; 33.	Four FR. 0.2M SW.
31100 <i>D 7220</i>	-Betel Raz Range, front.	2° 01.8' N 45° 20.4' E	FR.	49 15	5	White tower, black bands.	
31104 <i>D 7220.1</i>	--Rear, 180 meters 311° from front.	2° 01.9' N 45° 20.4' E	FR.	118 36	5	White truncated pyramid, black bands; 26.	
31108 <i>D 7221</i>	-Second Range, front.	2° 01.6' N 45° 20.2' E	Q.W.	62 19		Red and white checkered tower.	
31112 <i>D 7221.1</i>	--Rear, 140 meters 274° from front.	2° 01.6' N 45° 20.1' E	Q.W.			Metal post on concrete pillar; 20.	
31116 <i>D 7224</i>	-Third Range, front.	2° 01.4' N 45° 20.0' E	Q.W.			Metal post on concrete pillar; 20.	
31120 <i>D 7224.1</i>	--Rear, 90 meters 245° from front.	2° 01.4' N 45° 20.0' E	FR.			Red and white column with gallery.	
31124 <i>D 7226</i>	-Port office.	2° 02.2' N 45° 21.2' E	Iso.R. period 6s	56 17	8	Black metal framework tower, white diagonal stripes; 7.	
31128 <i>D 7223</i>	-S. breakwater, head.	2° 01.5' N 45° 20.5' E	Oc.R. period 6s	36 11	7		
31132 <i>D 7222</i>	-Breakwater, head.	2° 01.8' N 45° 21.0' E	Fl.G. period 2s fl. 0.5s, ec. 1.5s	33 10	5	Beacon; 20.	
MERCA:							
31136 <i>D 7212</i>	-Range, front, behind Mosque of Sceich Ozman.	1° 43.0' N 44° 46.0' E	FG.	33 10	4	White tower; 21.	Obscured when bearing less than 315° .
31140 <i>D 7212.1</i>	--Rear, NW. corner of city, about 131 meters 343° from front.	1° 42.8' N 44° 46.1' E	L.Fl.W. period 8.5s fl. 2s, ec. 6.5s	115 35	20	White round concrete tower; 56.	
31144 <i>D 7210</i>	Punta Agarre Range, front.	1° 41.0' N 44° 45.0' E	FR.	39 12	8	Truncated pyramidal structure, black and white stripes; 13.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOMALIA							
31148 <i>D 7210.1</i>	-El Mugne (Munghia), rear, about 2.2 kilometers 240° from front.	1° 41.0' N 44° 44.0' E	F.R.	49 15	7	Quadrangular pyramid, black and white stripes; 10.	
31152 <i>D 7206</i>	Brava, about 1353 meters 120° from beacon on summit.	1° 07.0' N 44° 02.0' E	Fl.W. period 5s fl. 1s, ec. 4s	177 54	10	White pyramidal tower; 25.	
31156	Fiume Giuba, N. side, about 686 meters E. of village of Giumbo.	0° 16.0' S 42° 37.0' E	Fl.(2)W. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	121 37	8	Black square masonry tower on white truncated pyramid; 30.	
BAIA DI CHISIMAYU:							
31160 <i>D 6842</i>	-Isola dei Serpenti.	0° 22.8' S 42° 33.3' E	Fl.W. period 4s	115 35	12	Round masonry tower on white square dwelling.	
			F.R.		5		Visible 250° 30' -262° 30' .
31161 <i>D 6842.9</i>	-Passo Nord Range, front, 5.75 miles 246° 35' to common rear.	0° 22.4' S 42° 33.5' E	Oc.G. period 2s			White beacon.	
31161.5 <i>D 6843</i>	--Common rear.	0° 24.7' S 42° 28.2' E	Q.G.			Black and white beacon.	
31162 <i>D 6843.1</i>	-Passo di Levante Range, front, 0.77 mile 269° 25' to common rear.	0° 24.7' S 42° 29.0' E	Oc.G. period 2s			Black and white beacon.	
31163 <i>D 6844</i>	-Passo Interno Range, front.	0° 22.7' S 42° 30.9' E	Oc.G. period 2s	89 27			
31163.1 <i>D 6844.1</i>	--Rear, 360 meters 325° 15' from front.	0° 22.6' S 42° 30.8' E	Q.G.			Black and white beacon.	
31164 <i>D 6845</i>	-Harbor entrance Range, front.	0° 22.0' S 42° 32.6' E	Oc.G. period 2s				
31164.1 <i>D 6845.1</i>	--Rear, 830 meters 008° from front.	0° 21.5' S 42° 32.6' E	Q.G.				
31165 <i>D 6846</i>	-Pier, head.	0° 23.2' S 42° 32.5' E	Q.R.		3	Black and white checkered tower surmounted by red lantern; 10.	
31165.2 <i>D 6846.2</i>	-Wharf, NW. head.	0° 23.2' S 42° 32.6' E	F.R.				
31165.4 <i>D 6846.4</i>	--Inner elbow.	0° 23.3' S 42° 32.7' E	F.R.				
31165.6 <i>D 6846.6</i>	--Root.	0° 23.2' S 42° 32.8' E	F.R.				
31166 <i>D 6847</i>	-Range, front.	0° 26.5' S 42° 28.4' E	Oc.G. period 2s			White beacon.	
31166.1 <i>D 6847.1</i>	--Rear, 0.68 mile 234° 25' from front.	0° 26.9' S 42° 27.8' E	Q.G.			White beacon.	
31172 <i>D 6848</i>	-Isola Pescicane.	0° 26.3' S 42° 30.6' E	Fl.R. period 4s	22 7	6		
KENYA							
31176 <i>D 6832</i>	Shela Range, front.	2° 17.8' S 40° 54.7' E	Q.W.	20 6	6	Black concrete column, white base.	
31180 <i>D 6832.1</i>	--Rear, 380 meters 014° 58' from front.	2° 17.8' S 40° 54.7' E	Fl.W. period 8s	184 56	8	Metal framework tower; 30.	Visible 244° -064° .

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
KENYA							
31188 <i>D 6828</i>	Kipini.	2° 32.0' S 40° 32.0' E	Fl.W. period 7s fl. 0.5s, ec. 6.5s	95 29	10	White tower; 30.	
31192 <i>D 6824</i>	Malindi, 168 meters 190° from Vasco da Gama's Pillar.	3° 13.0' S 40° 08.0' E	Fl.W. period 10s fl. 1s, ec. 9s	83 25	14	White framework tower; 44.	F.R. range lights, 212° 30' , shown 0.6 mile NW.
31196 <i>D 6825</i>	-About 1372 meters 002° from Malindi.	3° 12.7' S 40° 07.7' E	Q.W.R.	18 5	9	White concrete beacon; 29.	W. 063° -254° , R. elsewhere.
31200 <i>D 6820</i>	Kilifi Creek.	3° 38.0' S 39° 52.0' E	Fl.W. period 8s	130 40	9	White iron framework tower, red topmark; 26.	
31204 <i>D 6818</i>	Cannon Point.	3° 58.0' S 39° 46.0' E	Fl.W. period 10s	63 19	11	Square concrete structure, black and white bands; 44.	
MOMBASA:							
31208 <i>D 6772</i>	-Ras Serani Range, front.	4° 04.3' S 39° 40.8' E	Q.W.	85 26	8	White metal tower; 39.	
31212 <i>D 6772.1</i>	--Rear, about 330 meters 301° 45' from front.	4° 04.2' S 39° 40.7' E	Fl.W. period 5s fl. 1s, ec. 4s	147 45	18	White stone tower, black bands; 108.	Visible 214° -034° .
31216 <i>D 6774</i>	-Ras Kiberamini Range, front.	4° 03.0' S 39° 41.0' E	Q.W.		8	White column, black bands.	Visible 256° -076° .
31220 <i>D 6774.1</i>	--Rear, 490 meters 346° from front.	4° 02.6' S 39° 40.6' E	Fl.W. period 2s		8	White column.	Visible 256° -076°
31224 <i>D 6775</i>	-Ras Matani.	4° 04.0' S 39° 41.0' E	Q.R.		4	White beacon; 20.	
31228 <i>D 6784</i>	-Entrance Range, front.	4° 05.0' S 39° 40.2' E	Q.W.	37 11	3	White obelisk, black stripe; 25.	Visible 148° -328° .
31232 <i>D 6784.1</i>	--Rear, 354 meters 238° from front.	4° 05.1' S 39° 40.0' E	Fl.W. period 2s	52 16	3	White obelisk, black stripe; 25.	Visible 148° -328° .
31236 <i>D 6796</i>	-Likoni.	4° 05.0' S 39° 40.1' E	Dir.Iso.W.R.G. period 5s	69 21	2	White obelisk; 39.	R. 122° 30' -127° 30' , W.- 130° 30' , G.-135° 30' .
31240 <i>D 6794</i>	-Mtongwe Range, front.	4° 03.5' S 39° 38.4' E	Q.W.	69 21	6	White pillar; 6.	
31244 <i>D 6794.1</i>	--Rear, 250 meters 309° from front.	4° 03.5' S 39° 38.4' E	Fl.W. period 2s	93 28	6	White obelisk; 22.	Visible 220° -040° .
31252 <i>D 6813</i>	-Ras Kikaangoni.	4° 03.0' S 39° 38.0' E	Fl.R. period 3s	14 4		Red cylinder on pole.	
31256 <i>D 6812</i>	-Ras Mchangamwe, front.	4° 02.5' S 39° 38.3' E	Q.W.		2	On roof of building.	
31260 <i>D 6812.1</i>	--Rear 200 meters 343° from front.	4° 02.4' S 39° 38.3' E	Fl.W. period 2s		6	Stone beacon; 62.	Visible 253° -073° .
31264 <i>D 6812.5</i>	-No. 13.	4° 02.6' S 39° 38.4' E	Q.(6)+L.Fl.W. period 15s			S. CARDINAL By, beacon, topmark.	
31268 <i>D 6770</i>	Chale Island, SW. extremity.	4° 27.0' S 39° 32.0' E	Fl.(2)W. period 20s fl. 1s, ec. 2s fl. 1s, ec. 16s	98 30	12	Silver metal framework tower.	
31272 <i>D 6769</i>	Pungutiayu.	4° 42.0' S 39° 25.0' E	Fl.W. period 2s fl. 0.3s, ec. 1.7s	52 16	10	White glass reinforced plastic tower, black bands; 52.	Visible 105° -025° .

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TANZANIA							
PEMBA ISLAND:							
31276 D 6746	-Ras Kigomasha.	4° 52.7' S 39° 40.8' E	Al.FI.W.R. period 55s	125 38	22	Gray iron framework tower; 89.	Visible 009° -275°.
31280 D 6751	-Matumbe Makupa.	5° 24.0' S 39° 34.0' E	Fl.(3)W. period 20s fl. 0.8s, ec. 1.5s fl. 0.8s, ec. 1.5s fl. 0.8s, ec. 14.6s	107 33	16	White tower, red bands; 100.	
31284 D 6748	-Kohani Mkoani Channel Range, front.	5° 22.0' S 39° 39.0' E	Q.R.	12 4	5	Black structure, white bands; 20.	Lights shown only on request to port officer, Zanzibar or representative at Pemba.
31288 D 6748.1	--Rear, 82 meters 127° 40' from front.	5° 21.7' S 39° 38.5' E	Fl.R. period 6s	63 19	5	Black structure, white bands; 20.	
TANGA BAY:							
31296 D 6754	-Ulenge Island Range, front.	5° 00.7' S 39° 10.0' E	Q.W.	38 12	11	White concrete tower; 48.	
31300 D 6754.1	--Rear, 320 meters 319° from front.	5° 00.3' S 39° 08.8' E	L.FI.W. period 12s fl. 4.5s, ec. 7.5s	85 26	15	White square stone tower, black band; 85.	
31304 D 6758	-Ulenge Reef.	5° 02.4' S 39° 09.8' E	Fl.G. period 6s fl. 0.6s, ec. 5.4s	22 7		White framework beacon.	
31308 D 6756	-Ninule Reef.	5° 04.0' S 39° 12.0' E	Fl.R. period 2s fl. 0.2s, ec. 1.8s	24 7		White concrete beacon, red band.	
31312 D 6760	-About 714 meters NE. of Tanga Island.	5° 04.0' S 39° 07.0' E	Fl.R. period 2.5s	35 11	5	White concrete tower.	
31316 D 6759.55	-Tanga Island Range, front.	5° 03.5' S 39° 06.7' E	Fl.W. period 2s	35 11	7	White concrete tower.	
31316.1 D 6759.56	--Rear, 75 meters 234° from front.	5° 03.5' S 39° 06.6' E	Fl.W. period 7s		8		
31320 D 6763	-Inner Harbor.	5° 03.9' S 39° 06.8' E	Q.R.	13 4	5	White concrete tower.	
31324 D 6761.4	-Outer end of landing.	5° 04.0' S 39° 06.0' E	F.R.				
31328 D 6759	-Kwawa Reef Beacon.	5° 04.0' S 39° 08.0' E	Fl.G. period 2.5s fl. 0.5s, ec. 2s			White concrete beacon.	
31332 D 6757	-Ras Kazone Range, front.	5° 04.0' S 39° 08.0' E	Fl.W. period 1.5s fl. 0.3s, ec. 1.2s	28 9	10	White framework structure; 38.	
31336 D 6757.1	--Rear, 560 meters 266° from front.	5° 03.3' S 39° 07.2' E	Fl.W. period 10s	94 29	9	26 foot signal mast on white concrete tower, black stripe; 44.	Traffic signals. Signal station.
ZANZIBAR ISLAND:							
31340 D 6742	-Ras Nungwi.	5° 43.0' S 39° 18.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	60 18	13	White square tower, red lantern; 47.	Obscured when bearing less than 086°.
31344 D 6740	-Mwana Wa Mwana Island, N. extremity.	5° 45.5' S 39° 13.1' E	Fl.W. period 10s fl. 1s, ec. 9s	85 26	14	White square tower; 76.	
31356 D 6738	--Mangapwani, on cliff N. of village.	5° 57.0' S 39° 11.0' E	Fl.W. period 15s	116 35	9	White square tower, red base; 76.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TANZANIA							
-Zanzibar Harbor:							
31368 D 6732	--Bet el Ras Range, on beach, front.	6° 07.0' S 39° 13.0' E	Fl.R. period 1.5s	20 6		Beacon; 20.	
31372 D 6732.1	--Rear, 230 meters 042° from front.	6° 07.3' S 39° 12.9' E	Oc.R. period 6s	40 12		Beacon; 42.	Obscured on bearings greater than 085°.
31376 D 6726	--Marubi Palace Gardens Range, front.	6° 08.0' S 39° 12.0' E	Q.W.	32 10		8 White pyramidal stone tower; 20.	
31380 D 6726.1	---Rear, 384 meters 168° from front.	6° 09.0' S 39° 12.0' E	Iso.W. period 6s	93 28		8 White framework on white square stone tower; 42.	Visible 166° -170°.
31384 D 6718	-- Shangani.	6° 09.0' S 39° 11.0' E	F.W.	145 44		16 Clock tower.	Red light on radio mast.
31388 D 6721	--Boat camber, wharf, head.	6° 09.0' S 39° 11.0' E	F.R.	16 5		5 White iron column, black bands; 10.	
31392 D 6722	--Shangani, boat camber breakwater, head.	6° 09.2' S 39° 11.6' E	F.G.	20 6		3 Black steel framework structure, white concrete base.	
31404 D 6706	--SW. of Kiungani Mission Range, front.	6° 11.3' S 39° 11.9' E	Q.W.	30 9		8 White square iron framework tower, black stripe; 45.	
31408 D 6706.1	---Rear, 1006 meters 033° from front.	6° 10.9' S 39° 12.3' E	Fl.W. period 6s fl. 1s, ec. 5s	130 40		8 White beacon; 43.	
31416 D 6704	- Chumbe.	6° 17.0' S 39° 10.6' E	Fl.W. period 11s fl. 1s, ec. 10s	122 37		16 White square tower; 113.	Visible 299° -196°.
31424 D 6702	- Pungume Island.	6° 26.0' S 39° 20.0' E	Fl.W. period 3s fl. 0.2s, ec. 2.8s	85 26		15 White square tower, black stripes; 71.	
31428 D 6700	Ras Makunduchi.	6° 25.8' S 39° 33.7' E	Fl.(2)W. period 15s fl. 0.8s, ec. 1.5s fl. 0.8s, ec. 11.9s	145 44		18 White tower, red bands; 90.	
DAR ES SALAAM:							
31431 D 6673	-Inner Makatambe range LM7, front in line 051° with Outer Makatambe rear light.	6° 47.7' S 39° 19.9' E	Q.W.	49 15			
31432 D 6672	- Outer Makatambe.	6° 47.5' S 39° 20.2' E	Fl.(3)W. period 20s	96 29		15 White square tower, red bands; 95.	
	-Rear light LM8.		Oc.W.			Same structure.	
31436 D 6674	-Oyster Bay Range, outer anchorage, front.	6° 47.0' S 39° 17.2' E	Q.W.	65 20		12 White stone tower, red top; 29.	
31440 D 6674.1	--Rear, 400 meters 247° from front.	6° 47.0' S 39° 17.0' E	Fl.W. period 7.5s	123 37		17 White stone tower, red stripe; 85.	
31444 D 6684	-Ras Rangoni Range LM3, front.	6° 48.9' S 39° 18.8' E	Q.W.	36 11			
31448 D 6684.1	--Rear LM4, 260 meters 188° from front.	6° 49.1' S 39° 18.8' E	Iso.W.	72 22			
31451 D 6698	-Range LM11, front.	6° 49.2' S 39° 17.3' E	Q.W.	56 17			
31451.1 D 6698.1	--Rear LM12, 255 meters 333° 42' from front.	6° 49.1' S 39° 17.3' E	Iso.W.	82 25			
31453 D 6697	-Vijibweni Range LM9, front.	6° 51.3' S 39° 18.3' E	Q.W.	69 21			

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TANZANIA							
31453.1 <i>D 6697.1</i>	--Rear LM10, 100 meters 153° 42' from front.	6° 51.3' S 39° 18.4' E	Iso.W.		89 27		
31476 <i>D 6694</i>	-Kurasini Range LM5, front.	6° 49.8' S 39° 17.3' E	Q.W.		118 36		
31480 <i>D 6694.1</i>	--Rear LM6, 240 meters 231° from front.	6° 49.9' S 39° 17.2' E	Iso.W.		144 44		
31484 <i>D 6668</i>	Ras Kanzi, S. of Ras Kimbiji.	7° 01.0' S 39° 33.0' E	Fl.W. period 10s		91 28	10 Gray square tower; 40.	Visible 172° -004°.
31492 <i>D 6666</i>	Ras Mkumbi.	7° 38.0' S 39° 55.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s		102 31	16 Square tower, red and white bands; 98.	
LINDI RIVER:							
31500 <i>D 6654</i>	-Ras Shuka.	9° 58.9' S 39° 48.7' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s		50 15	6 White tower; 20.	
31504 <i>D 6656</i>	-Entrance Range, front.	9° 59.4' S 39° 42.8' E	Fl.W. period 2s fl. 0.8s, ec. 1.2s		22 7	9 Gray concrete obelisk; 12.	
31508 <i>D 6656.1</i>	--Rear, 1000 meters 240° from front.	10° 00.3' S 39° 42.3' E	L.Fl.W. period 6s fl. 2s, ec. 4s		178 54	15 Gray wooden beacon; 30.	
31516 <i>D 6650</i>	Ras Msamgamkuu.	10° 12.2' S 40° 14.7' E	Fl.W. period 10s fl. 1s, ec. 9s		85 26	11 White iron framework tower; 68.	Obscured from 290° -054°. <i>Reported extinguished (1987).</i>
31520 <i>D 6651</i>	Mtwara Harbor Range, front.	10° 14.7' S 40° 12.0' E	Q.W.		40 12	7 White framework tower; 30.	
31524 <i>D 6651.1</i>	-Rear, 225 meters 154° from front.	10° 14.9' S 40° 12.9' E	Fl.W. period 2.5s		63 19	9 White framework tower; 30.	
31528 <i>D 6653</i>	Ras Jandoni Range, front.	10° 15.0' S 40° 12.0' E	Fl.W. period 2s				
31532 <i>D 6653.1</i>	-Rear, 715 meters 189° from front.	10° 15.7' S 40° 11.6' E	Fl.(2)W. period 5s				
MOZAMBIQUE							
31536 <i>D 6648</i>	Cabo Delgado.	10° 41.5' S 40° 38.1' E	Fl.(2)W. period 12s fl. 1.5s, ec. 2s fl. 1.5s, ec. 7s		138 42	16 White hexagonal concrete tower, dwelling; 118.	Signal station.
31540 <i>D 6647</i>	Ilha Vamizi, E. point of island.	11° 01.0' S 40° 43.0' E	Fl.(2)W. period 6s fl. 0.3s, ec. 2s fl. 0.3s, ec. 3.4s		43 13	8 Truncated conical white tower.	
BAIA MOCIMBOA DA PRAIA:							
31544 <i>D 6646</i>	-Comangano, NE. of Ponta Vermelha.	11° 19.0' S 40° 24.0' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s		30 9	6 White metal tower, white quadrangular base; 16.	
31548 <i>D 6645</i>	-Ilha Lipulula, E. point of island.	11° 20.0' S 40° 22.0' E	Fl.G. period 4s fl. 0.4s, ec. 3.6s		17 5	5 Iron pyramidal tower, white quadrangular base; 16.	
31552 <i>D 6644</i>	Ponta Rovura.	11° 20.6' S 40° 23.2' E	Fl.R. period 4s		23 7	6 White truncated pyramidal tower, on masonry base.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MOZAMBIQUE							
31556 <i>D 6642</i>	Ilha Tambuzi.	11° 22.1' S 40° 39.2' E	Fl.(2)W. period 10s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 7.2s	121 37	15	Round concrete tower, black and white bands; 85.	
31560 <i>D 6641</i>	Ilheu Quero-Niuni.	11° 38.0' S 40° 33.0' E	Fl.W. period 4s fl. 0.4s, ec. 3.6s	30 9	6	White square tower.	Radar reflector.
31564 <i>D 6640</i>	Ilha Medjumbe, E. point.	11° 48.9' S 40° 36.4' E	Fl.(2)W. period 15s fl. 1s, ec. 2s fl. 1s, ec. 11s	105 32	10	White truncated conical concrete tower; 85.	
31568 <i>D 6636</i>	Ilha do Ibo, Mujaca Island, N. head.	12° 20.0' S 40° 37.0' E	Fl.W. period 12s fl. 0.6s, ec. 11.4s	59 18	10	White tower and dwelling; 49.	
31572 <i>D 6637</i>	-Porto do Ibo.	12° 21.0' S 40° 35.0' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	19 6	5	White tower, black band; 20.	
31576 <i>D 6634</i>	Ponta do Diabo.	12° 45.0' S 40° 38.0' E	Fl.W. period 7s fl. 0.7s, ec. 6.3s	27 8	8	White skeleton quadrangular tower; 13.	
BAIA DE PORTO AMELIA:							
31580 <i>D 6628</i>	-Ponta Said-Ali.	12° 55.7' S 40° 30.9' E	Fl.G. period 4s	33 10	5	White cubic base, red tower; 29.	
31584 <i>D 6630</i>	-Ponta Romero.	12° 57.0' S 40° 30.5' E	Fl.R. period 4s	26 8	5	White conical beacon; 16.	
31588 <i>D 6632</i>	-Ponta Mepira.	12° 57.8' S 40° 29.1' E	Fl.R. period 2s	17 5	5	Red round tower, concrete base; 19.	
31592 <i>D 6624</i>	-Ponta Maunhane.	12° 58.3' S 40° 35.4' E	Fl.W. period 5s	75 23	16	Black masonry column, white band on square masonry base, white dwelling nearby; 39.	
31596 <i>D 6622</i>	Punta Uifundo.	13° 24.0' S 40° 35.0' E	Fl.(2)W. period 16s fl. 0.8s, ec. 2.4s fl. 0.8s, ec. 12s	112 34	11	Red skeleton tower; 69.	
31600 <i>D 6620</i>	Chaonde Point, Baia Almeida.	13° 42.0' S 40° 33.0' E	Fl.W. period 10s fl. 1s, ec. 9s	151 46	9	White rectangular hut; 7.	
31604 <i>D 6618</i>	Pinda.	14° 12.5' S 40° 42.8' E	Fl.(2)W. period 10s	210 64	24	Black round masonry tower, white bands, red top; 102.	
31608 <i>D 6611</i>	Cabo Melamo.	14° 24.0' S 40° 48.0' E	Iso.W. period 4s	32 10	14	White quadrangular framework tower; 20.	Radar reflector.
PORTO DE NACALA:							
31612 <i>D 6612</i>	-Ponta Sacamulo.	14° 28.0' S 40° 40.0' E	Fl.G. period 2s	26 8	5	White framework tower on square tower; 16.	Visible 163° -013° . Radar reflector.
31616 <i>D 6611.3</i>	-W. side entrance.	14° 27.0' S 40° 39.0' E	Fl.(3)W.R.G. period 9s	35 11	W. 12 R. 8 G. 8	White framework tower square tower; 20.	G. 200° -233° , W.-241° , R.-271° .
31620 <i>D 6612.4</i>	-Nacala Range, front.	14° 29.0' S 40° 41.0' E	Q.R.	23 7	12	White tripod, triangular daymark, point up; 13.	
31624 <i>D 6612.5</i>	-Rear, 567 meters 155° 30' from front.	14° 29.4' S 40° 40.8' E	Iso.R. period 4s	125 38	12	White beacon, triangular daymark, point down; 10.	
31628 <i>D 6611.6</i>	-Fernaio Veloso, on Punta Naarenque.	14° 27.3' S 40° 40.5' E	Fl.R. period 3s	26 8	6	White square tower, pyramidal framework structure on top; 16.	Visible 357° -242° . Radar reflector.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MOZAMBIQUE							
31632 <i>D 6613</i>	-Ponta Zuani, on spit.	14° 30.0' S 40° 40.0' E	Fl.R. period 4s fl. 0.4s, ec. 3.6s	17 5	5	White 3-pile concrete structure; 16.	
31636 <i>D 6614</i>	-Ponta Namuaxi.	14° 31.0' S 40° 40.0' E	Fl.G. period 4s	17 5	5	White 3-pile concrete structure; 16.	Visible 178° -025°.
31640 <i>D 6610</i>	Ponta Onlungune, Janga.	14° 41.0' S 40° 50.2' E	Fl.(3)W. period 13.5s	46 14	10	White quadrangular concrete skeleton tower, black bands; 39.	
PORTO DE MOCAMBIQUE:							
31652 <i>D 6602</i>	-Ilheu de Sao Lourenco, No. 1 Range, front.	15° 03.3' S 40° 43.5' E	Fl.W. period 3.4s fl. 0.4s, ec. 3s	10 3	14	White triangular daymark, point up; 7.	Visible 232° -322°.
31656 <i>D 6602.1</i>	--Sancul, rear, 3.5 km. 260° from front.	15° 01.8' S 40° 44.4' E	Fl.W. period 4s fl. 0.2s, ec. 3.8s	70 21	5	Tower on triangular pyramid; 52.	Visible 224° -284°.
31660 <i>D 6598</i>	-Entrance Range No. 2, front.	15° 03.2' S 40° 47.0' E	Q.W.	45 14	6	White tower on pyramid; 46.	Visible 107° 30' -167° 30'.
31661 <i>D 6598.1</i>	--Ilha de Goa, rear, 410 meters 127° from front.	15° 03.2' S 40° 47.4' E	Fl.(4)W. period 10s fl. 0.7s, ec. 0.8s fl. 0.7s, ec. 0.8s fl. 0.7s, ec. 0.8s fl. 0.7s, ec. 4.8s	98 30	27	Square masonry tower, black and white bands, on dwelling; 102.	Aeromarine light.
31672 <i>D 6606</i>	-Customhouse Pier, NW. side of Ilha de Mocambique.	15° 02.0' S 40° 44.0' E	F.R.	9 3	3	Shown from top of white tide gauge; 7.	
31676 <i>D 6606.1</i>	---Middle of pier.	15° 01.2' S 40° 44.2' E	Fl.R. period 4s fl. 0.4s, ec. 3.6s	9 3	3	Shown from top of white sentry hut; 13.	In line with pierhead light indicates anchorage range.
31680 <i>D 6604</i>	-Capitania.	15° 02.0' S 40° 44.0' E	F.G.	50 15	5	White watch tower; 49.	
31684 <i>D 6596</i>	Ponta Namalungo.	15° 38.0' S 40° 25.0' E	Fl.(4)W. period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	276 84	10	White quadrangular concrete tower; 62.	Visible 227° -029°. Reserve light F.W.
31688 <i>D 6592</i>	Sangage.	15° 59.7' S 40° 07.4' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	306 93	19	Dark red hexagonal concrete tower, white bands; 85.	
PORTO DE ANTONIO ENES:							
31692 <i>D 6591</i>	-Parapato.	16° 13.0' S 39° 54.0' E	Q.W.	220 67	9	White iron truncated tower red bands, semaphore; 26.	Signal station.
31696 <i>D 6591.2</i>	-Baixo Monico.	16° 15.0' S 39° 54.0' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	13 4	4	Red and white banded beacon.	
31700 <i>D 6591.4</i>	-Port office.	16° 14.0' S 39° 54.0' E	F.G.	37 11	4	White quadrangular concrete tower, hut; 28.	
31704 <i>D 6590</i>	Ilha de Mafamede.	16° 21.3' S 40° 01.8' E	Fl.(2)R. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 8s	78 24	13	White hexagonal tower; 82.	Visible 029° -049° and 206° - 221°.
31708 <i>D 6586</i>	Ponta Caldeira.	16° 39.3' S 39° 30.2' E	Fl.(3)R. period 10s fl. 0.5s, ec. 1.2s fl. 0.5s, ec. 1.2s fl. 0.5s, ec. 6.1s	164 50	18	Octagonal concrete tower, dwelling; 86.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MOZAMBIQUE							
31712 <i>D 6582</i>	Ihla Epidendron.	17° 05.2' S 39° 07.1' E	Fl.(2)R. period 8s	102 31	8	White square framework tower, red bands; 79.	
	RACON		D(- • •)				
31716 <i>D 6580</i>	Ilha do Fogo, E. side.	17° 14.2' S 38° 53.0' E	Fl.W.R.G. period 12s	115 35	14	White quadrangular skeleton tower; 111.	
31720 <i>D 6576</i>	Ponta Matirre.	17° 16.5' S 38° 11.2' E	Fl.(2+1)W. period 12s	165 50	14	White iron framework tower, red bands; 43.	Signal station.
31724 <i>D 6575</i>	Macuse, on Ponta Namerrumo Point, W. side of entrance to Rio Macuse.	17° 47.0' S 37° 11.0' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	69 21	4	White square concrete framework tower; 66.	
PORTO DE QUELIMANE:							
31732 <i>D 6573.4</i>	-Port office.	17° 52.7' S 36° 52.9' E	F.G.	23 7	5	Red column; 10.	
31736 <i>D 6574</i>	-Recamba.	17° 53.4' S 36° 52.8' E	Fl.R. period 6s fl. 0.4s, ec. 5.6s	23 7	3	Red column; 16.	
31740 <i>D 6570</i>	Vilhena.	18° 05.8' S 36° 55.3' E	Fl.(2)W. period 12s fl. 0.8s, ec. 4.5s fl. 0.8s, ec. 5.9s	102 31	14	Red metal framework tower, white bands; 89.	
31744 <i>D 6566</i>	Porto do Chinde, Farol Inhamiara.	18° 31.2' S 36° 31.5' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	72 22	14	White concrete quadrangular framework structure; 33.	
31748 <i>D 6567</i>	Praia do Chinde, about 1 mile SW. of Pta. Liberal.	18° 36.0' S 36° 28.0' E	Fl.(2)W. period 6s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 4.5s	35 11	7	White concrete quadrangular framework structure; 36.	
31752 <i>D 6564</i>	Ilha Timbue.	18° 49.8' S 36° 20.9' E	Fl.W. period 8s fl. 0.8s, ec. 7.2s	135 41	13	Quadrangular metal tower, red and white bands; 128.	
31756 <i>D 6563</i>	Machesse.	19° 16.8' S 35° 33.0' E	Fl.(2)W. period 10.1s fl. 0.5s, ec. 2.1s fl. 0.5s, ec. 7s	154 47	14	Aluminum tower, red bands; 131.	
31760 <i>D 6562</i>	Savane.	19° 40.0' S 35° 10.0' E	L.Fl.W. period 12s fl. 2s, ec. 10s	172 52	7	Quadrangular metal tower, white and black bands; 131.	
31764 <i>D 6553</i>	Rio Macuti.	19° 50.6' S 34° 54.0' E	Fl.(3)W. period 10s fl. 0.3s, ec. 1.2s fl. 0.3s, ec. 1.2s fl. 0.3s, ec. 6.7s	118 36	19	White round tower, black bands, on dwelling; 92.	Signal station. Radiobeacon. Aero Radiobeacon 5 miles NNW.
	RACON		M(- -)		15		
31768 <i>D 6554</i>	--Antenna Tower.	19° 50.0' S 34° 52.0' E	Aero.Iso.R. period 2.5s	294 90	12	Metal framework tower; 292.	Obstruction light. 3 F.R. (vert.) lights on tower.
31772	-Buoy A.	19° 56.2' S 35° 02.8' E	Mo.(A)W. period 8s			SAFE WATER RW, pillar, topmark.	
	-RACON		C(- • • •)		15		
31776 <i>D 6556</i>	-Cabedelo.	19° 50.2' S 34° 49.8' E	Fl.G. period 2.5s fl. 0.5s, ec. 2s	16 5	3	Metal mast; 13.	
31777	-Macuti Approach Buoy.	20° 10.0' S 35° 19.9' E	Fl.(2)W. period 10s				
	-RACON		M(- -)				
31780 <i>D 6548</i>	Ilha Chilokane Chingune Point.	20° 36.7' S 34° 53.3' E	F.W.	26 8	8	Iron support above white tower; 39.	

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MOZAMBIQUE							
31784 <i>D 6546</i>	Ponta Ingomaimo, N. extremity.	20° 43.0' S 35° 00.0' E	Fl.W. period 6s fl. 0.8s, ec. 5.2s	141 43	13	White hexagonal concrete tower, black band; 131.	
31788 <i>D 6540</i>	Cabo Bazaruto.	21° 31.5' S 35° 29.4' E	Fl.(3)W. period 30s	381 116	23	White round tower, dwelling adjacent; 85.	Visible 020° -357°.
31792 <i>D 6542</i>	Ilha do Santa Carolina.	21° 37.0' S 35° 19.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	73 22	8	Square concrete tower; 23.	
31796 <i>D 6544</i>	Mucoque, on Ponta Chue.	21° 59.0' S 35° 19.0' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	56 17	5	White column, lantern on quadrangular closed tower; 13.	
31800 <i>D 6538</i>	Ponta Sao Sebastiao, near S. end of spit.	22° 16.0' S 35° 32.0' E	Fl.(5)W. period 15s fl. 0.8s, ec. 1.1s fl. 0.8s, ec. 1.1s fl. 0.8s, ec. 1.1s fl. 0.8s, ec. 1.1s fl. 0.8s, ec. 6.6s	125 38	12	Red tower, white dwelling; 26.	
31804 <i>D 6536</i>	Ponta da Barra Falsa.	22° 57.0' S 35° 36.0' E	Fl.(2)W. period 10s fl. 0.3s, ec. 2.3s fl. 0.3s, ec. 7.1s	404 123	18	White quadrangular tower; 46.	
31808	<i>Inhambane Lighted Buoy, 914 meters E. of bar.</i>	23° 40.0' S 35° 30.0' E	Fl.W. period 10s fl. 0.5s, ec. 9.5s			Black and white striped buoy.	
31812 <i>D 6532</i>	Ponta da Barra.	23° 47.5' S 35° 32.3' E	Fl.(3)W. period 10s	81 25	29	White round tower; 44.	Signal station.
31816 <i>D 6530</i>	Cabo das Correntes.	24° 06.0' S 35° 30.0' E	Fl.(4)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 5s	112 34	13	White square tower; 16.	
31820 <i>D 6528</i>	Ponta Zavora.	24° 31.5' S 35° 11.9' E	Fl.W. period 10s	220 67	19	White masonry tower, attached dwelling; 53.	Signal station.
	RACON		Z(- - • •)				
31824 <i>D 6526</i>	Quissico.	24° 44.8' S 34° 48.3' E	Fl.(2)W. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	188 57	10	White square concrete skeleton structure; 20.	
31828 <i>D 6524</i>	Baizos da Boa Paz.	24° 57.0' S 34° 10.0' E	Fl.(3)W. period 10s fl. 0.3s, ec. 1.9s fl. 0.3s, ec. 1.9s fl. 0.3s, ec. 5.3s	244 74	15	White round concrete tower; 26.	
BAIA DE LOURENCO MARQUES:							
31832 <i>D 6522</i>	-Monte Belo.	25° 11.2' S 33° 30.1' E	Fl.W. period 4.5s	305 93	20	White round stone tower above dwelling; 46.	
31836 <i>D 6491</i>	-Lacerda.	25° 33.7' S 32° 50.7' E	Fl.(3)W. period 12s	200 61	5	Aluminum framework tower, white rectangular daymark; 33.	Difficult to distinguish due to vegetation.
	-RACON		O(- - -)				
31838	<i>-Buoy No. 1N.</i>	25° 38.3' S 32° 53.0' E	Q.W.			N. CARDINAL BY, pillar, topmark.	
	-RACON		C(- • - •)				
31840 <i>D 6491.4</i>	-Macomana.	25° 40.6' S 32° 46.2' E	Fl.W. period 10s		12	Tripod on white building.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MOZAMBIQUE							
31844 <i>D 6492</i>	-Barra Sul Range, front.	25° 58.2' S 32° 59.0' E	Q.W.	72 22	6	Concrete tripod; 75.	Visible 138° -198° . Unreliable. When lit this lead may not necessarily mark the center of the channel.
31848 <i>D 6492.1</i>	-Cabo da Inhaca, rear, 814 meters 142° 30' from front.	25° 58.6' S 32° 59.3' E	Fl.(2+1)W. period 15s Iso.R. period 4s	357 109	23 12	White hexagonal tower; 102.	Aeromarine light. Visible 224° -212° . Visible 212° -224° over Baixo Danae Shoal.
31860	-Buoy No. 3S. -RACON	25° 52.0' S 32° 54.0' E	Fl.(3)R. period 9s G(- - •)			PORT (A) R, can.	
31868 <i>D 6500</i>	-Baixo Ribeiro.	25° 54.6' S 32° 48.1' E	Iso.W.R. period 5s		W. 11 R. 8	White round concrete structure.	R. 075° -244° , W.-075° .
31876 <i>D 6503</i>	-Canal da Polana Range, front. -RACON	25° 57.9' S 32° 37.5' E	Oc.W. period 8s KT(- • - -)	46 14	25	Red rectangular daymark, yellow stripe; 39.	Visible 250° -255° .
31880 <i>D 6503.1</i>	--Miradouro, rear, 2976 meters 252° 30' from front.	25° 58.5' S 32° 35.7' E	Oc.W. period 8s TS(- • • •)	180 55	25	Red square daymark, yellow stripe.	Visible 250° -255° .
31884 <i>D 6508</i>	--No. 2 Range, front.	25° 59.7' S 32° 34.7' E	Oc.R. period 4s	23 7	12	Concrete pile structure, red rectangular daymark, yellow stripe; 36.	Visible 219° -259° .
31888 <i>D 6508.1</i>	---Catembe rear, S. bank of river 1865 meters 239° from front.	26° 00.4' S 32° 33.8' E	Oc.R. period 4s	98 30	12	Red rectangular daymark, yellow stripe; 39.	Visible 219° -259° .
31892 <i>D 6512</i>	--Pier, head.	25° 58.7' S 32° 33.7' E	Fl.R. period 5s	10 3	5	White concrete column.	Visible 135° -355° .
31896 <i>D 6514</i>	-Luz do Cais, NW. extremity of Molhe da Capitania.	25° 58.5' S 32° 34.2' E	Fl.(2)G. period 6s	28 9	4	White round building, gallery and mast; 23.	Visible 295° -125° .
31900 <i>D 6517</i>	-Dredged channel, No. 1 Range, front.	25° 56.5' S 32° 30.2' E	Oc.R. period 8s	16 5	12	Framework tower, red rectangular daymark, yellow stripe.	Visible 276° -316° .
31904 <i>D 6517.1</i>	--Rear, about 805 meters 296° from front.	25° 56.5' S 32° 29.8' E	Oc.R. period 8s	75 23	12	Framework tower, red rectangular daymark, yellow stripe.	Visible 276° -316° . Synchronized with front.
31908 <i>D 6518</i>	-Dredged channel, No. 2 Range, front.	25° 57.1' S 32° 31.3' E	Iso.G. period 4s	39 12	10	Top of pump house.	Visible 050° -090° . F.R. lights 90 meters apart mark jetty.
31912 <i>D 6518.1</i>	--Rear, 1,527 meters 070° from front.	25° 56.9' S 32° 32.6' E	Iso.G. period 4s	124 38	10	Framework tower, red rectangular daymark, yellow stripe.	Visible 050° -090° .
31916 <i>D 6519</i>	-Matola anchorage Range, front.	25° 57.7' S 32° 29.7' E	F.G.	43 13	5	Aluminum column, whitebanded diamond daymark, red lantern.	
31920 <i>D 6519.1</i>	--Rear, about 520 meters 022° from front.	25° 57.5' S 32° 29.8' E	F.G.	56 17	5	Iron column, white banded diamond daymark, green lantern.	
31924 <i>D 6520</i>	--S. silo of cement factory.	25° 57.5' S 32° 29.3' E	F.G.	69 21	5		
31928 <i>D 6488</i>	Ponta do Ouro.	26° 51.4' S 32° 53.3' E	Fl.(2)W. period 10s	374 114	15	White concrete tower on white dwelling; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH AFRICA							
31932 <i>D 6486</i>	Jesser Point.	27° 33.1' S 32° 40.7' E	Fl.(4)W. period 40s fl. 1s, ec. 4s fl. 1s, ec. 4s fl. 1s, ec. 4s fl. 1s, ec. 24s	200 61	25	White round tower; 36.	Shown by day.
31936 <i>D 6485</i>	Cape Vidal.	28° 08.8' S 32° 33.2' E	Fl.W. period 10s fl. 0.5s, ec. 9.5s	213 65	25	Yellow round concrete tower; 75.	Shown by day.
31940 <i>D 6484</i>	Cape St. Lucia.	28° 30.9' S 32° 24.0' E	Fl.(2)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 8s	371 113	24	Iron tower, black and white bands; 26.	Visible 210° -030°.
31944 <i>D 6483</i>	Richard's Bay.	28° 46.5' S 32° 07.7' E	Fl.(3)W. period 15s fl. 0.4s, ec. 2s fl. 0.4s, ec. 2s fl. 0.4s, ec. 9.8s	236 72	25	White concrete tower; 36.	
31948 <i>D 6483.2</i>	-Range, front.	28° 47.5' S 32° 02.2' E	Oc.(2)R. period 6s lt. 1s, ec. 1s lt. 3s, ec. 1s	180 55			F.R. by day.
31952 <i>D 6483.21</i>	--Rear, 0.8 mile 290° 15' from front.	28° 47.0' S 32° 00.5' E	Oc.(2)W. period 6s lt. 1s, ec. 1s lt. 3s, ec. 1s	240 73			F.W. by day.
31956 <i>D 6483.4</i>	-S. breakwater, head.	28° 48.9' S 32° 05.6' E	Fl.W. period 3s	52 16	6	Red tower, white bands.	
	-RACON		N(- •)		12		
31960 <i>D 6483.45</i>	-N. breakwater, head.	28° 48.5' S 32° 05.8' E	Fl.(2)G. period 5s	49 15	6	Black tower, white bands.	
31962 <i>D 6483.5</i>	-N. Headland.	28° 48.4' S 32° 05.6' E	F.G.			Brick tower.	
31963 <i>D 6483.52</i>	-Pelican Island, W. groin, S. head.	28° 47.9' S 32° 05.1' E	Q.G.	29 9	3	Post; 16.	
31963.2 <i>D 6483.53</i>	---N. head.	28° 47.7' S 32° 05.1' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	29 9	3	Post; 16.	
31963.4 <i>D 6483.54</i>	--E. groin.	28° 48.0' S 32° 05.3' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	29 9	3	Post; 16.	
31963.6 <i>D 6483.57</i>	--E. breakwater.	28° 47.9' S 32° 05.5' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	29 9	3	Post; 16.	
31964 <i>D 6482</i>	Durnford Point.	28° 55.0' S 31° 55.3' E	Fl.(3+1)W. period 40s	184 56	19	White round concrete structure; 39.	Visible 246° -070°.
	RACON		O(- - -)				
31968 <i>D 6480</i>	Umhlanga Rocks.	29° 43.7' S 31° 05.3' E	Fl.(3)W. period 20s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 14.7s	79 24	24	White round concrete tower, red top, near large white building; 69.	
			F.R.		10		Visible 010° -shore.
31972 <i>D 6481</i>	Tugela Bluff.	29° 13.3' S 31° 30.3' E	Fl.(4)W. period 30s fl. 0.4s, ec. 4.6s fl. 0.4s, ec. 4.6s fl. 0.4s, ec. 4.6s fl. 0.4s, ec. 14.6s	115 35	23	Metal framework tower, round daymark; 69.	Shown by day.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH AFRICA							
DURBAN:							
31974 D 6461	-Anglo-American Building.	29° 51.5' S 31° 01.3' E	Fl.W. period 7s	472 144	25	Building.	Private light.
31975 D 6461.5	-Holiday Inn.	29° 51.2' S 31° 02.3' E	F.W.	357 109	8	Building.	Private light.
31976	-Fairway Buoy.	29° 50.0' S 31° 05.6' E	Iso.W. period 2s			SAFE WATER RW, pillar, topmark.	
	-RACON		B(- • • •)		12		
31977 D 6463	-The Bluff, AVIATION LIGHT.	29° 53.3' S 31° 02.8' E	F.R.		5		Obstruction light.
31978 D 6464	-S. pier, head.	29° 51.9' S 31° 03.8' E	Fl.(2)W. period 5s	46 14	18	Round metal tower, red platform; 26.	
31979 D 6466	-N. pier, head.	29° 52.0' S 31° 03.5' E	Fl.G. period 3s	46 14	15	Round metal tower, green platform; 33.	
31984 D 6472	-Channel Range, front.	29° 53.1' S 31° 02.8' E	Iso.R. period 2s	69 21	12	Gray tower, yellow triangular daymark, point up.	
31988 D 6472.1	--Rear, 1040 meters 215° 30' from front.	29° 53.6' S 31° 02.4' E	Oc.W. period 4s	141 43	14	Gray tower, yellow triangular daymark, point down.	
31989 D 6473	-Precision Entry Light.	29° 53.1' S 31° 02.6' E	Dir.F.W.R.G.	144 44	W. 8 R. 6 G. 5	Gray metal lattice tower with platform; 135.	F.G. 215° 36' -216° 42' , Oc.G.-217° 36' , F.W.- 217° 48' , Oc.R.- 218° 42' , F.R.-219° 48' .
31990 D 6473.3	-Salisbury Island, N. corner pier.	29° 52.8' S 31° 02.5' E	Q.(2)W. period 3s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 1.5s			Metal column.	
31991 D 6473.22	-Entrance channel, N. side.	29° 52.4' S 31° 03.3' E	Q.G.			Caisson.	
31992 D 6475	-Island View Channel Range, front.	29° 53.5' S 31° 01.6' E	Fl.W. period 3s	72 22		Black tower, yellow triangular daymark, point up.	
31996 D 6475.1	--Rear, 84 meters 243° 30' from front.	29° 53.4' S 31° 01.5' E	Oc.R. period 4s	82 25		Black tower, yellow triangular daymark, point down.	
31997 D 6475.2	-Small craft basin, W. head.	29° 51.8' S 31° 01.7' E	Fl.(2)R. period 5s				
31998 D 6475.3	--E. head.	29° 51.8' S 31° 01.7' E	Fl.(2)G. period 5s				
31999 D 6476	-S. corner, T-Jetty, head.	29° 52.3' S 31° 02.1' E	Fl.G. period 1.5s				
32000 D 6478	-Beach Anchorage Beacon.	29° 48.8' S 31° 02.3' E	Q.W.	52 16	5	Black column.	FW. by day.
32001 D 6476.2	--NW. head.	29° 52.2' S 31° 02.0' E	Q.W.				
32002 D 6477	-No. 1 Pier, NE. corner.	29° 52.5' S 31° 02.0' E	F.I.R. period 3s			Metal column.	
32003 D 6477.2	--NW. corner.	29° 52.6' S 31° 01.8' E	Fl.W. period 3s			Metal column.	
32005 D 6477.4	-No. 2 pier, NE. corner.	29° 52.7' S 31° 01.4' E	Q.(2)R. period 3s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 1.5s			Metal column.	
32006 D 6477.5	-Fish wharf.	29° 54.1' S 31° 00.4' E	Q.G.	20 6	2	Gray pole on yellow base.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH AFRICA							
32020 <i>D 6458</i>	Cooper.	29° 56.1' S 31° 00.3' E	Fl.W. period 10s fl. 0.3s, ec. 9.7s	436 133	26	Red concrete tower, white band, red lantern; 69.	
32024	<i>S.B.M.</i>	30° 00.5' S 30° 58.4' E	Fl.W. period 3s				
32028	Widenham RACON	30° 13.3' S 30° 47.5' E	K(- • -) period 120s				
32032 <i>D 6454</i>	Green Point.	30° 15.0' S 30° 46.8' E	Fl.(2)W. period 15s	279 85	30	Red round iron tower, white bands; 69.	Visible 213° -022° . F.R. lights on radio tower 3.3 miles SW.
			F.R.	248 76	15	Red round iron tower, white bands; 69.	Visible over Aliwal Shoal 268° -298° .
32036	Scottburgh RACON	30° 17.2' S 30° 45.4' E	G(- - •) period 120s				
32040 <i>D 6452</i>	Ifafa Beach.	30° 27.8' S 30° 39.1' E	Fl.(3)W. period 30s fl. 0.7s, ec. 4.3s fl. 0.7s, ec. 4.3s fl. 0.7s, ec. 19.3s	115 35	19	Metal framework tower, triangular daymark, point up; 75.	Shown by day.
32044 <i>D 6450</i>	Port Shepstone.	30° 44.5' S 30° 27.5' E	Fl.W. period 6s fl. 0.3s, ec. 5.7s	79 24	26	Black and white checkered metal tower, white lantern; 26.	Visible 215° -028° . F.R. and Q.W. lights on radio tower 8.7 miles W.
32048 <i>D 6448</i>	North Sand Bluff.	31° 03.4' S 30° 13.5' E	Fl.(2)W. period 10s fl. 0.3s, ec. 3s fl. 0.3s, ec. 6.4s	125 38	24	White round concrete tower, red lantern; 72.	Visible 217° -034° .
32052 <i>D 6446</i>	South Sand Bluff.	31° 19.7' S 29° 57.7' E	Fl.W. period 10s fl. 0.2s, ec. 9.8s	246 75	18	White round concrete tower; 33.	
32056 <i>D 6442</i>	Cape Hermes.	31° 38.1' S 29° 33.2' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	180 55	21	White octagonal stone tower; 43.	Visible 230° -040° and to 159° in the entrance.
32060 <i>D 6438</i>	Mbashe Point.	32° 14.4' S 28° 54.9' E	Fl.(2+1)W. period 38s fl. 0.3s, ec. 5.1s fl. 0.3s, ec. 16s fl. 0.3s, ec. 16s	151 46	28	White metal framework tower, red lantern; 46.	
32064 <i>D 6434</i>	Cape Morgan.	32° 42.4' S 28° 21.9' E	Fl.(2)W. period 10s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 7.2s	197 60	24	Square on framework tower, black and yellow bands; 39.	
EAST LONDON:							
32068 <i>D 6432</i>	-Nahoon Point.	32° 59.9' S 27° 56.7' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	222 68	8	White tower, red band.	
32072 <i>D 6426</i>	-E. breakwater, head.	33° 01.6' S 27° 55.1' E	Q.G.	32 10	14	White tower.	
32076 <i>D 6424</i>	-S. breakwater, head.	33° 01.7' S 27° 55.5' E	Fl.R. period 2s fl. 0.1s, ec. 1.9s	52 16	16	White tower.	Horn: Mo.(Q) ev. 30s (bl. 2.5s, si. 2s, bl. 2.5s, si. 2s, bl. 1s, si. 2s, bl. 2.5s, si. 15.5s). Sounded on request to Port Control.
32080 <i>D 6424.2</i>	--Root.	33° 01.7' S 27° 55.2' E	Q.W.				Obscured 224° -044° . For use inside harbor.
32084 <i>D 6428</i>	-Castle Point Range, front.	33° 01.7' S 27° 54.9' E	F.R.	68 21		Metal framework tower, white triangular daymark, point up.	
32088 <i>D 6428.1</i>	--Rear, 363 meters 249° 45' from front.	33° 01.8' S 27° 54.7' E	Oc.W. period 3s	197 60		Lattice tower, white triangular daymark, red and white bands; 154.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH AFRICA							
32092 <i>D 6420</i>	Hood Point.	33° 02.4' S 27° 53.9' E	Fl.(4)W. period 40s fl. 0.5s, ec. 4.2s fl. 0.5s, ec. 4.2s fl. 0.5s, ec. 4.2s fl. 0.5s, ec. 25.4s	180 55	28	White round tower, red lantern; 30.	Obscured 233° -235° .
32096 <i>D 6416</i>	Great Fish Point.	33° 31.2' S 27° 06.5' E	Fl.W. period 10s fl. 0.5s, ec. 9.5s	279 85	30	White octagonal tower, black stripes, red lantern; 30.	F.R. lights on radio mast 6.8 miles WSW.
32100 <i>D 6414</i>	Port Alfred, S. breakwater, head.	33° 36.2' S 26° 54.2' E	Q.R.	30 9	5	Square lattice tower; 13.	
32104 <i>D 6412</i>	Bird Islands.	33° 50.5' S 26° 17.3' E	Fl.(2)W. period 20s fl. 0.5s, ec. 2.2s fl. 0.5s, ec. 16.8s	96 29	27	Red square tower, white band; 85.	
PORT ELIZABETH							
32105 <i>D 6411</i>	-E. breakwater head.	33° 49.1' S 25° 41.6' E	Q.G.	59 18	14	Round concrete tower with platform; 36.	Horn: Mo.(N) ev. 20s (bl. 6s, si. 2s, bl. 2s, si 10s).
32105.1 <i>D 6411.2</i>	-Inner.	33° 48.6' S 25° 41.8' E	Fl.G. period 2s	49 15	7	Metal post; 26.	
32105.2 <i>D 6411.44</i>	-Liquid bulk quay.	33° 48.0' S 25° 41.4' E	F.R.	36 11		Metal post; 20.	Neon.
32105.3 <i>D 6411.4</i>	-S. quay, SE.	33° 48.0' S 25° 41.3' E	F.G.	36 11		Metal post; 20.	Neon.
32105.4 <i>D 6411.39</i>	-Container quay, NW.	33° 47.9' S 25° 40.9' E	F.R.	36 11		Metal post; 20.	Neon.
32105.5 <i>D 6411.3</i>	-W. breakwater.	33° 48.5' S 25° 41.4' E	Fl.R. period 2s	56 17	7	Metal post; 36.	
32106 <i>D 6410.6</i>	-Range, front.	33° 47.6' S 25° 41.7' E	Oc.R. period 4s	121 37	4	White framework tower, orange square daymark, red bands; 59.	Shown throughout 24 hours.
32106.1 <i>D 6410.61</i>	--Rear, about 580 meters 009.5° from front.	33° 47.3' S 25° 41.8' E	Oc.W. period 4s	187 57	6	White framework tower, orange square daymark, red bands; 23.	Shown throughout 24 hours.
32106.2 <i>D 6410.5</i>	-Ngqura Harbor Range, front.	33° 48.4' S 25° 40.7' E	Oc.W. period 3s lt. 2s, ec. 1s	230 70	7	White framework tower, white stripe, orange rectangular daymark, red bands; 167.	Shown throughout 24 hours.
32106.3 <i>D 6410.51</i>	--Rear, 1011 meters 342.4° from front.	33° 47.8' S 25° 40.5' E	Oc.W. period 6s lt. 4s, ec. 2s	338 103	8	White framework tower, white stripe, orange rectangular daymark, red bands; 197.	Shown throughout 24 hours.
32108 <i>D 6400</i>	-Deal.	33° 54.9' S 25° 36.9' E	Fl.W. period 10s fl. 0.5s, ec. 9.5s	89 27	24	Square framework tower; 72.	F.R. lights on radio masts 6.8 miles SW., 1.2 miles and 2.8 miles WSW.
32110	-Fairway Buoy.	33° 55.6' S 25° 40.4' E	Iso.W. period 2s			SAFE WATER RW, pillar, topmark.	
	-RACON		C(- • - •)				
32116 <i>D 6404</i>	-S. breakwater, extension.	33° 57.2' S 25° 38.6' E	V.Q.(2)R. period 6s	52 16	14	White concrete tower.	Horn: Mo.(Q) ev. 30s (bl. 4s, si. 2s, bl. 4s, si. 2s, bl. 2s, si. 2s, bl. 4s, si. 10s).
32120 <i>D 6405</i>	-S. breakwater, root-167° 45' .	33° 57.8' S 25° 38.7' E	Dir.W.R.G.	122 37	12	Metal tower; 102.	F.G. 148° -162° , Q.G.-166° , FW.-170° , Q.R.-174° , F.R.-188° .
32124 <i>D 6403</i>	-Range, front.	33° 57.3' S 25° 37.2' E	Q.R.	118 36	19	Framework tower, red and white bands; 102.	Shown throughout 24 hours.
32128 <i>D 6403.1</i>	--Rear, about 496 meters 238° from front.	33° 57.4' S 25° 36.9' E	Oc.W. period 5s lt. 3s, ec. 2s	197 60	24	White pole; 16.	Shown throughout 24 hours.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH AFRICA							
32132 <i>D 6406</i>	-N. Arm, Charl Malan Quay, inner head.	33° 57.5' S 25° 38.5' E	F.G. (neon)	26 8	2	Metal post; 10.	
32136 <i>D 6407</i>	--Outer head.	33° 57.3' S 25° 38.3' E	V.Q.(3)G. period 5s	52 16	14	Metal pole; 33.	Traffic signals.
32137 <i>D 6407.5</i>	--Range, front.	33° 57.7' S 25° 37.6' E	F.R.	39 12	2	Metal pole; 19.	
32137.1 <i>D 6407.51</i>	---Rear, 180 meters 263° from front.	33° 57.7' S 25° 37.5' E	F.G.	46 14	2	Concrete column; 30.	
32137.2 <i>D 6408</i>	-Berth No. 9.	33° 57.7' S 25° 38.2' E	F.R.	30 9	2	Concrete column; 10.	Strip light.
32137.3 <i>D 6408.2</i>	-No. 3 quay.	33° 57.8' S 25° 38.3' E	F.G.	30 9	2	Metal pole; 10.	
32137.4 <i>D 6409</i>	-Fisheries jetty.	33° 58.0' S 25° 38.1' E	Iso.G. period 2s	26 8	2	Pole; 13.	
32137.5 <i>D 6409.5</i>	-Tanker berth.	33° 57.8' S 25° 38.6' E	F.R.	23 7	2	Metal pole; 10.	
32137.6 <i>D 6409.7</i>	-Ore berth, E. quay.	33° 57.9' S 25° 38.5' E	F.R.	30 9	2	Metal pole; 10.	
32137.7 <i>D 6409.6</i>	--W. quay.	33° 58.0' S 25° 38.3' E	Iso.R. period 2s	30 9	2	Metal pole; 10.	
32144 <i>D 6390</i>	Cape Recife.	34° 01.7' S 25° 42.1' E	L.FI.W.R. period 117s fl. 2.8s, ec. 27s fl. 2.8s, ec. 27s fl. 2.8s, ec. 54.6s	92 28	W. 29 R. 15	Octagonal tower, white and black bands, red dome; 79.	W. 190° -162° , R.-190° . Horn: Mo.(B) ev. 30s (bl. 4s, si. 2s, bl. 2s, si. 2s, bl. 2s, si. 2s, bl. 2s, si. 14s).
			F.W.R.	92 28	W. 21 R. 10		W. 190° -162° , R.-190° . Under certain atmospheric conditions only flash may be seen.
32148 <i>D 6386</i>	Cape St. Francis.	34° 12.5' S 24° 50.1' E	FI.W. period 5s fl. 0.2s, ec. 4.8s	118 36	28	White round tower; 92.	Visible 224° -shore. F.R. on radio masts 23 and 29 miles WNW. Horn: Mo.(C) ev. 30s (bl. 4s, si. 2s, bl. 1.5s, si. 2s, bl. 4s, si. 2s, bl. 1.5s, si. 13s).
32150 <i>D 6386.1</i>	Kromme Bay.	34° 11.7' S 24° 52.0' E	Q.(3)W. period 5s fl. 0.3s, ec. 0.5s fl. 0.3s, ec. 0.5s fl. 0.3s, ec. 3.1s	30 9	7	White pole; 10.	
32152 <i>D 6384</i>	Cape Seal.	34° 06.4' S 23° 24.2' E	FI.(2)W. period 30s	469 143	15	Steel framework tower, yellow round daymark; 20.	
32154 <i>D 6383.2</i>	Knysna W. Range, front.	34° 03.9' S 23° 02.6' E	F.R. (neon)		1	White post.	
32154.1 <i>D 6383.3</i>	-Rear, 186° from front.	34° 04.0' S 23° 02.6' E	F.W. (neon)		1	White post.	
32156 <i>D 6383</i>	Knysna Range, front.	34° 04.7' S 23° 03.8' E	FI.W. period 3s				
32160 <i>D 6383.1</i>	-Rear, 910 meters 006° from front.	34° 04.3' S 23° 03.6' E	Q.R.			Mast, red and white bands, triangular daymark, point down	
MOSELBAAI:							
32164 <i>D 6380</i>	-Aliwai Harbor, mole, head.	34° 10.7' S 22° 08.9' E	F.R.	46 14	4	Column; 26.	
32168 <i>D 6381</i>	-Range, front.	34° 08.4' S 22° 06.8' E	F.R.			Column; 49.	Occasional.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH AFRICA							
32172 <i>D 6381.1</i>	--Rear, 240 meters 288° 30' from front.	34° 08.3' S 22° 06.6' E	F.W.			Column; 49.	Occasional.
32176 <i>D 6381.2</i>	-Range, front.	34° 10.2' S 22° 07.3' E	F.R.	79 24		Column; 33.	Occasional.
32180 <i>D 6381.3</i>	--Rear, 160 meters 198° from front.	34° 10.2' S 22° 07.3' E	F.W.	125 38		Column; 26.	Occasional.
32184 <i>D 6379</i>	-Breakwater, head.	34° 10.5' S 22° 08.8' E	Iso.R.	52 16	12	Red framework tower; 39.	
32188 <i>D 6382</i>	-No. 4 Quay, NW. corner.	34° 10.5' S 22° 08.7' E	Fl.G. (neon) period 3s	43 13	4	Column; 26.	Vertical strip light.
32189 <i>D 6382.1</i>	--NE. corner.	34° 10.6' S 22° 08.8' E	F.G. (neon)	46 14	4	Column; 26.	Vertical strip light.
32190 <i>D 6382.5</i>	<i>Oil terminal SBM.</i>	34° 08.7' S 22° 08.5' E	Mo.(U)W. period 15s			Yellow.	Horn: 1 bl. ev. 30s (bl. 3s, si. 27s).
32192 <i>D 6378</i>	-Cape St. Blaize.	34° 11.2' S 22° 09.4' E	Fl.(2)W. period 15s	240 73	25	White square tower; 46.	Obscured 052° -shore and within 0.5 mile of Cape Vacca. Horn: 1 bl. ev. 60s. Sounded when fog is sighted/ detected.
32194 <i>D 6377.1</i>	<i>E.M. Control Buoy.</i>	34° 54.8' S 21° 42.5' E	Mo.(X)Y.		10	Yellow lattice structure.	Horn: Mo.(U).
	RACON		X(- • • -)				
32196 <i>D 6374</i>	Yzervark Point.	34° 23.6' S 21° 43.7' E	Fl.W. period 10s	164 50	24	Metal framework tower, square daymark, black and yellow bands; 79.	Shown 24 hours.
32200 <i>D 6372</i>	Stilbaai, jetty, head.	34° 23.1' S 21° 25.7' E	Iso.R. period 2s	13 4	5	Metal column.	
32204 <i>D 6371</i>	Cape Infanta.	34° 28.3' S 20° 50.8' E	Fl.(3)W. period 20s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 14.5s	174 53	24	Framework tower, square daymark; 49.	Shown 24 hours.
32204.5 <i>D 6370.4</i>	Struispunt.	34° 41.4' S 20° 14.1' E	Fl.(3)W. period 15s fl. 0.4s, ec. 1s fl. 0.4s, ec. 1s fl. 0.4s, ec. 11.8s	39 12	11	Pyramidal masonry tower, ball daymark, red and white vertical stripes.	
32205 <i>D 6370.3</i>	Arniston.	34° 40.0' S 20° 13.9' E	Q.R.	7 2	2	Pole; 7.	
32206 <i>D 6370.1</i>	Struisbaai Harbor, S. breakwater.	34° 47.7' S 20° 03.7' E	Fl.W. period 2s	19 6	5	White hut, red bands.	
32206.2 <i>D 6370.2</i>	-Directional light.	34° 47.9' S 20° 03.4' E	Dir.F.W.R.G.	26 8	3	Red post.	G. 254° -266° , W.-270° , R.-282° .
32208 <i>D 6370</i>	Cape Agulhas.	34° 49.7' S 20° 00.6' E	Fl.W. period 5s fl. 0.3s, ec. 4.7s	102 31	30	Red round tower, white band; 89.	
32212 <i>D 6332</i>	Quoin Point.	34° 46.8' S 19° 38.5' E	Fl.(2)W. period 10s fl. 0.1s, ec. 2.9s fl. 0.1s, ec. 6.9s	112 34	16	Metal framework tower, diamond daymark, red and white bands; 72.	
32216 <i>D 6320</i>	Danger Point.	34° 37.8' S 19° 18.1' E	L.Fl.(3)W. period 40s fl. 2s, ec. 4s fl. 2s, ec. 4s fl. 2s, ec. 26s	148 45	27	White octagonal tower, red dome; 56.	Obscured in Walker Bay on bearings more than 180° . Horn: Mo.(D) ev. 15s.
32220 <i>D 6306</i>	-W. breakwater.	34° 35.1' S 19° 20.4' E	Fl.W. period 4s fl. 0.3s, ec. 3.7s	33 10	6		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH AFRICA							
32224 D 6307	-W. breakwater, head.	34° 35.1' S 19° 20.5' E	Fl.(2)G. period 5s fl. 0.3s, ec. 0.7s fl. 0.3s, ec. 3.7s		4		
32228 D 6308	-W. jetty, head.	34° 35.2' S 19° 20.5' E	Fl.(2)R. period 5s fl. 0.3s, ec. 0.7s fl. 0.3s, ec. 3.7s		4		
32232 D 6300	-N. breakwater.	34° 35.0' S 19° 20.7' E	Q.R.	26 8	5	Tower.	
32236 D 6304	-S. breakwater.	34° 35.0' S 19° 20.7' E	Q.G.	26 8	5	Tower.	
32240 D 6290	Hermanus, S. breakwater.	34° 26.1' S 19° 13.8' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	22 7	8	White square concrete tower.	
32244 D 6280	Cape Hangklip.	34° 23.2' S 18° 49.7' E	Fl.W. period 10s fl. 0.3s, ec. 9.7s	107 33	25	White round concrete tower, black band; 72.	
GORDONS BAY:							
32248 D 6262	-W. breakwater, head.	34° 09.7' S 18° 51.5' E	Q.G.	16 5	7	White square concrete tower, green band.	Fl.R. 5M and Fl.G. 5M mark marina 0.7 mile NW.
32252 D 6260	-E. breakwater, head.	34° 09.8' S 18° 51.6' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	16 5	7	White square concrete tower, red band.	
32253 D 6240	Harbor Island, W. breakwater.	34° 09.1' S 18° 51.4' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	27 8	5	Red pole; 10.	
32254 D 6241	-E. breakwater.	34° 09.1' S 18° 51.4' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	27 8	5	Green pole; 10.	
32264 D 5913	Tierberg, Aero obstruction light.	33° 52.5' S 18° 35.8' E	Fl.R. period 1.7s		18		Obstruction lights F.R. 1.9 miles NNE, 1300 feet in height.
32268 D 5912	-Aero obstruction light.	33° 50.1' S 18° 35.3' E	Fl.R. period 1.7s		18		1300 feet in height.
32272 D 6200	Kalk Bay, breakwater, outer head.	34° 07.7' S 18° 27.2' E	L.Fl.R. period 15s fl. 2.5s, ec. 12.5s	22 7	6	Tower; 16.	
32276 D 6224	-Inner mole, head.	34° 07.7' S 18° 27.1' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	14 4	2		
SIMONS BAY:							
32280 D 6140	-Roman Rocks.	34° 10.9' S 18° 27.7' E	Fl.W. period 6s fl. 0.1s, ec. 5.9s	56 17	20	White round iron tower, red lantern and white dome; 45.	
	-RACON		Q(- - • -) period 48s		12		
32284 D 6141	-N. spur, breakwater, head.	34° 11.1' S 18° 26.3' E	Fl.(3)W. period 7s fl. 1s, ec. 0.5s fl. 1s, ec. 0.5s fl. 1s, ec. 3s	43 13	15	White column, red lantern; 36.	Visible 140° -290° .
32288 D 6143	-Outer breakwater, entrance, E. side.	34° 11.1' S 18° 26.3' E	Q.R.	27 8	5	White column, red lantern; 23.	
32292 D 6143.1	--W. side.	34° 11.2' S 18° 26.2' E	Q.G.	27 8	4	White column, green lantern; 23.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH AFRICA							
32296 <i>D 6143.2</i>	--Elbow.	34° 11.3' S 18° 26.1' E	Fl.R. period 15s fl. 1s, ec. 14s	46 14	4	White column, red lantern; 13.	Visible 220° -340° .
32300 <i>D 6144</i>	-N. elbow of dockyard, E. breakwater.	34° 11.2' S 18° 26.5' E	Oc.W. (neon) period 4s lt. 2.5s, ec. 1.5s	57 17	11	Masonry tower; 43.	Visible 055° -315° .
32302 <i>D 6154</i>	-Range, front.	34° 11.5' S 18° 25.6' E	Iso.Or. period 2s		3	On corner of white building.	
32302.1 <i>D 6154.1</i>	--Rear, 139 meters 210° from front.	34° 11.5' S 18° 25.6' E	Iso.R. period 2s		3	Against top of red brick building.	
32304 <i>D 6146</i>	-E. dockyard, breakwater.	34° 11.3' S 18° 26.4' E	F.R.	24 7	3	Metal structure; 23.	
32308 <i>D 6150</i>	-W. dockyard, breakwater.	34° 11.3' S 18° 26.2' E	F.G.	24 7	3	Metal column structure; 22.	
32310 <i>D 6147</i>	-Range, front.	34° 11.5' S 18° 26.5' E	Iso.Or. period 2s			Orange triangle topmark on red pole on top of building; 10.	
32310.1 <i>D 6147.1</i>	--Rear, 186 meters 142° 30' from front.	34° 11.6' S 18° 26.6' E	Iso.R. period 2s			On side of building.	
32312 <i>D 6151</i>	-New Inner Basin, W. side of entrance.	34° 11.4' S 18° 26.2' E	F.G.				
32316 <i>D 6151.1</i>	--E. side of entrance.	34° 11.0' S 18° 26.0' E	F.R.				
32318 <i>D 6153</i>	-W. dockyard, W. pier, head.	34° 11.5' S 18° 25.8' E	2 F.R. (horiz.)				
32319 <i>D 6176</i>	-Seal Island.	34° 08.2' S 18° 35.0' E	Fl.W. period 2s fl. 0.3s, ec. 1.7s		7	Metal pole; 10.	
32320	- <i>Whittle Rock Buoy.</i>	34° 14.7' S 18° 34.2' E	Q.(3)W. period 10s			E. CARDINAL BYB, pillar.	Bell.
	-RACON		B(- • • •)				
32324 <i>D 6120</i>	Cape of Good Hope.	34° 21.0' S 18° 29.0' E	Fl.(2+1)W. period 30s fl. 0.6s, ec. 3.6s fl. 0.6s, ec. 12.3s fl. 0.6s, ec. 12.3s	285 87	32	Square masonry tower; 30.	Visible 153° -106° .
			F.R.	253 77	15	Base of same tower.	Visible 299° -023° .

For continuation of lights in the Republic of South Africa, see Pub. 113.

Section 21

Islands in the Indian Ocean

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MADAGASCAR							
32328 <i>D 6914</i>	-Cap d'Ambre.	11° 57.0' S 49° 17.0' E	Fl.W. period 5s	231 70	23	Octagonal concrete tower; 105.	Visible 067° -321° . Aeromarine light.
BAIE DE DEIGO-SUAREZ:							
32332 <i>D 6920</i>	-Ilot des Aigrettes, on summit of island.	12° 13.3' S 49° 19.0' E	Oc.(2)W.R.G. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	59 18	W. 10 R. 7 G. 6	White house, black lantern; 26.	W. 272° -275° , R.-285° , G.-033° , W.-038° , R.-265° , G.-272° .
32336 <i>D 6922</i>	--Antsirana, Port Office.	12° 16.0' S 49° 17.3' E	Iso.W.R.G. period 4s	43 13	W. 13 R. 10 G. 9	White tower; 36.	W. 021° 30' -207° , G.-220° , W.-227° , R.-237° 30' , obscured elsewhere. F.R. light shown on radio masts 0.9 and 1.4 miles S.W.
32340 <i>D 6924</i>	--Port Militaire, N. jetty, head.	12° 16.0' S 49° 17.0' E	FR.	7 2		White metal framework tower, red bands.	
32344 <i>D 6925</i>	---Detached breakwater, N. head.	12° 16.3' S 49° 17.0' E	FG.	7 2		White metal framework tower, red bands.	
32348 <i>D 6926</i>	---Entrance Range, front.	12° 16.4' S 49° 17.1' E	FG.	20 6		Green pylon; 16.	Visible 089° -159° . Occasional.
32352 <i>D 6926.1</i>	---Rear, 80 meters 124° from front.	12° 16.4' S 49° 17.1' E	FW.	52 16		Green metal framework tower; 20.	Visible 089° -159° . Occasional.
32356 <i>D 6918</i>	-Cap Mine.	12° 14.0' S 49° 22.0' E	Fl.(3)W. period 15s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 8.8s	154 47	20	Octagonal masonry tower; 46.	Visible 137° -077° . Storm signals.
32360 <i>D 6919</i>	-Cape Andranomady, NW extremity.	12° 13.7' S 49° 21.4' E	Fl.R. period 4s	36 11	5	White octagonal stone tower, red top; 33.	
BAIE DE MANGERIVY:							
32364 <i>D 6930</i>	-Nosy Akao.	12° 48.3' S 49° 49.9' E	Fl.(4)W. period 20s fl. 0.3s, ec. 3s fl. 0.3s, ec. 3s fl. 0.3s, ec. 3s fl. 0.3s, ec. 9.8s	151 46	19	Concrete tower; 59.	Visible 115° -055° .
VOHEMAR:							
32368 <i>D 6936</i>	-No. 3, S. point of the N. reef Range, front.	13° 21.0' S 50° 00.0' E	FG.	13 4	5	White beacon, green top; 23.	Occasional.
32372 <i>D 6936.1</i>	--Rear, W. side of bay near summit of 55 meter hill, 260° from front.	13° 21.3' S 49° 58.3' E	Oc.W. period 4s lt. 3s, ec. 1s	207 63	10	White truncated pyramid.	
32376 <i>D 6938</i>	-Beacon No. 4, off N. point of S. reef.	13° 21.0' S 50° 00.8' E	FR.	23 7	5	Red pyramidal masonry structure; 23.	Shown on request.
32380 <i>D 6939</i>	-Pointe de Hiarambazaha.	13° 21.3' S 50° 00.5' E	FR.	20 6	3	Red and white checked tower; 13.	Shown when a ship is expected or when requested.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MADAGASCAR							
SAMBAVA:							
32384 D 6942	-Beacon C.	14° 15.0' S 50° 10.0' E	Oc.(3)W. period 12s lt. 4.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s	249 76	10	White beacon; 33.	
32388 D 6943	-Beacon A, Anchorage Range, front.	14° 15.0' S 50° 09.0' E	F.R.	30 9	3	White tower, upper third red.	Range lights shown only on request. <i>Temporarily extinguished (1983).</i>
32392 D 6943.1	--Rear, Beacon D, about 1079 meters 196° from front.	14° 15.8' S 50° 09.1' E	F.R.	102 31	7	White beacon.	Visible on range only. Shown on request. <i>Temporarily extinguished (1983).</i>
32396 D 6945	Antalaha, root of pier at customhouse.	14° 53.0' S 50° 15.0' E	F.R.	20 6	3	Support painted red, red lantern.	Shown on request.
32400 D 6944	-Range, front.	14° 53.8' S 50° 16.6' E	Dir.F.G.	23 7	11	White beacon; 23.	Intensified 274° -279° . Occasional.
32404 D 6944.1	--Rear, 1000 meters 276° 30' from front.	14° 53.6' S 50° 16.1' E	Oc.(2)W. period 6s	269 82	13	Black and white beacon; 26.	Visible 126° -036° .
RADE D' AGONTSY:							
32408 D 6946	-Cap Est.	15° 17.0' S 50° 28.0' E	Fl.(2)W. period 10s fl. 0.6s, ec. 1.9s fl. 0.6s, ec. 6.9s	229 70	17	White iron tower, masonry base; 62.	Aeromarine light.
32412 D 6948.3	Cape Masoala.	15° 59.0' S 50° 13.0' E	Fl.(5)W. period 20s fl. 0.3s, ec. 2.5s fl. 0.3s, ec. 2.5s fl. 0.3s, ec. 2.5s fl. 0.3s, ec. 2.5s fl. 0.3s, ec. 8.5s	262 80	18	Masonry tower; 82.	
32416 D 6948.5	Nosy Behentona.	16° 00.0' S 50° 09.0' E	Fl.(2+1)W. period 15s fl. 1.5s, ec. 4.5s fl. 1.5s, ec. 4.5s fl. 1.5s, ec. 1.5s	105 32	10	Masonry tower; 33.	Visible 252° -105° .
32420 D 6947	Nosy Mangabe, on summit of island.	15° 30.0' S 49° 50.0' E	Iso.W. period 4s	715 218	10	White metal pylon; 23.	Visible 246° -169° . <i>Temporarily extinguished (2007).</i>
32424 D 6948	Maroantsetra Range, front.	15° 27.0' S 49° 44.0' E	Oc.R. period 6s lt. 4.5s, ec. 1.5s	33 10	5	White beacon, black stripe; 26.	
32428 D 6948.1	-Rear, 240 meters 046° from front.	15° 26.1' S 49° 44.1' E	F.R.	43 13		White metal framework tower, white square daymark, black stripe; 43.	Visible 040° -052° . Occasional.
MANANARA:							
32432 D 6949.5	-Ilot Rocheaux.	16° 10.0' S 49° 45.0' E	F.R.	25 8	3	White beacon, upper third red, red lantern; 13.	
ILE SAINTE MARIE:							
32436 D 6950	-Pointe Albrand.	16° 44.0' S 50° 00.0' E	Fl.W. period 5s	262 80	22	White metal tower, concrete base; 52.	Visible 154° -140° . Aeromarine light.
32440 D 6956	-Rocher aux Sorciers, Port Ste. Marie.	16° 59.7' S 49° 50.8' E	F.W.R.	59 18	W. R. 8 6	White octagonal tower; 20.	R. 010° -050° , W.-189° .

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MADAGASCAR							
32444 <i>D 6952</i>	-Ilot Madame, N. extremity.	17° 00.5' S 49° 50.6' E	Oc.G. period 4s	30 9	6	White round tower; 26.	
32448 <i>D 6954</i>	-Ambodifototra Basin, N. mole, head.	17° 00.0' S 49° 51.0' E	F.R.	13 4		Red daymark, white stripe; 10.	
32452 <i>D 6958</i>	-Ile aux Nattes, Pte. Blevec, on S. end of island.	17° 07.0' S 49° 49.0' E	F.W.	112 34	13	Round masonry tower; 10.	Visible 177°-194°, 223°- 265°, 273°-156°.
FENERIVE:							
32456 <i>D 6960</i>	-Lakaria Hill.	17° 23.7' S 49° 25.9' E	Oc.W. period 6s	177 54	10	White tower; 36.	Visible 122°-032°.
32460 <i>D 6972</i>	Ile aux Prunes.	18° 03.0' S 49° 28.0' E	Fl.(3)W. period 25s fl. 0.1s, ec. 4.9s fl. 0.1s, ec. 4.9s fl. 0.1s, ec. 14.9s	197 60	23	White tower, black top; 197.	Aeromarine light.
TAMATAVE:							
32464 <i>D 6973</i>	-Salazamay Range, front.	18° 05.8' S 49° 24.0' E	Q.W.	52 16	10	Pyramidal tower, white triangular daymark; 46.	
32468 <i>D 6973.1</i>	--Rear, 951 meters 277° from front.	18° 05.7' S 49° 23.5' E	Dir.Q.W.	75 23	14	White pyramidal beacon black band; 52.	Intensified 268°-286°.
32476 <i>D 6976</i>	-Pte. Tanio.	18° 08.0' S 49° 26.0' E	Oc.(3)W.R.G. period 12s lt. 4.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s	115 35	W. 15 R. 11 G. 11	White iron tower; 58.	R. 165°-192°, W.-200°, R.- 209°, G.-211°, W.-217°, R.-296°, G.-298°, R.- 353°. F.R. on radio mast 0.64 mile WNW.
32480 <i>D 6978</i>	-Immeuble Portuaire.	18° 09.0' S 49° 25.0' E	Fl.(2+1)W.R.G. period 15s fl. 1s, ec. 1.5s fl. 1s, ec. 5.2s fl. 1s, ec. 5.3s	89 27	W. 14 R. 11 G. 11	Gray lantern on white building.	G. 148°-184°, W.-193°, R.- 253°, W.-104°.
32487 <i>D 6980</i>	-Range, front.	18° 09.5' S 49° 25.4' E	F.G.	46 14	5	Red lantern on building.	Visible 148°-178°.
32487.1 <i>D 6980.1</i>	--Rear, 17 meters 163° from front.	18° 09.5' S 49° 25.4' E	F.R.	66 20	6	Red lantern on building.	Visible 148°-178°.
32492 <i>D 6982</i>	-Landing place.	18° 09.5' S 49° 25.5' E	F.G.	16 5	5	Post, white with upper third black.	
32496 <i>D 6988</i>	Mahanoro.	19° 54.0' S 48° 49.0' E	Oc.W. period 6s lt. 4.5s, ec. 1.5s	75 23	10	White iron tower; 39.	Visible 178°-030°.
MANANJARY:							
32500 <i>D 6994</i>	-Entrance Range, front.	21° 14.0' S 48° 21.1' E	Q.R.	26 8	8	White rectangular daymark.	Intensified 134°-044°. Partially obscured.
32504 <i>D 6994.1</i>	--Rear, 1198 meters 269° from front.	21° 14.0' S 48° 20.3' E	F.R.	58 18	15	White tower, white daymark; 43.	Intensified 266°-272°. Partially obscured.
32508 <i>D 6995</i>	-Traverse Range, front.	21° 13.3' S 48° 21.3' E	Dir.Oc.G. period 4s lt. 3s, ec. 1s	48 15	12	Beacon, black and white bands; 33.	Intensified 328°-334°.
32512 <i>D 6995.1</i>	--Rear, 400 meters 331° from front.	21° 13.0' S 48° 21.2' E	Dir.F.G.	58 18	12	Beacon, black and white bands; 39.	Intensified 328°-334°.
32516 <i>D 6992</i>	-Water tower.	21° 14.0' S 48° 20.0' E	Oc.(2)W. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	118 36	12	White tower; 85.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MADAGASCAR							
MANAKARA:							
32520 <i>D 6998</i>	-Approach Range, front.	22° 07.0' S 48° 01.0' E	F.G.	48 15	9	Black and white beacon; 39.	Visible 311° -319° .
32524 <i>D 6998.1</i>	-- Emokala , rear, 1056 meters 315° from front.	22° 07.2' S 48° 01.2' E	Fl.(4)W. period 25s	144 44	26	White octagonal tower, black top; 95.	Reserve light F.W. Aeromarine light.
32528 <i>D 7000</i>	-Range, front.	22° 08.0' S 48° 01.0' E	Q.W.	23 7	12	White tower, black top; 20.	Visible 151° -061° .
32532 <i>D 7000.1</i>	-Rear, 820 meters 286° from front.	22° 07.9' S 48° 00.9' E	Dir.Q.W.	62 19	16	White tower, black top; 43.	Visible 283° 30' -288° 30' .
32536 <i>D 7004</i>	-Range, front.	22° 08.0' S 48° 01.0' E	F.G.	20 6		White beacon; 13.	Occasional.
32540 <i>D 7004.1</i>	--Rear, 45 meters 241° from front.	22° 08.2' S 48° 01.4' E	F.G.	33 10		White beacon; 20.	Occasional.
32544 <i>D 7006</i>	-Residency beacon.	22° 07.0' S 48° 02.0' E	Oc.(2)W.R.G. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	46 14	W. 12 R. 9 G. 8	White octagonal tower; 33.	G. 200° -237° , W.-247° , R.- 020° .
32548 <i>D 7014</i>	Charbonnier.	22° 50.0' S 47° 50.0' E	Oc.W. period 6s	69 21	10	White octagonal tower, black band; 52.	Visible 140° -320° .
32552 <i>D 7018</i>	Pointe d'Itaperina.	24° 59.0' S 47° 05.8' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	338 103	18	White tower; 33.	
FORT DAUPHIN:							
32556 <i>D 7019</i>	-Entrance Range, front.	25° 01.5' S 46° 59.5' E	Dir.Oc.W. period 4s lt. 3s, ec. 1s	82 25	18	White stepped beacon, black stripe, black lantern; 33.	Intensified 237° 30' - 242° 30' .
32560 <i>D 7019.1</i>	--Rear, 260 meters 239° 30' from front.	25° 01.6' S 46° 59.4' E	Dir.Oc.W. period 4s	154 47	18	White beacon, black stripe, black lantern; 26.	Synchronized with front. Intensified 237° 30' - 242° 30' .
32564 <i>D 7020</i>	-Second Range, front.	25° 01.5' S 47° 00.0' E	F.R.	39 12	7	White square tower, red lantern; 39.	
32568 <i>D 7020.1</i>	-- Flacourt , rear, 40 meters 155° from front.	25° 01.6' S 47° 00.0' E	Oc.(2)W. period 6s	125 38	15	White hexagon concrete tower, red lantern; 39.	Visible 084° -354° .
32572 <i>D 7021</i>	-Pier, head.	25° 01.6' S 46° 59.8' E	F.G.	20 6	6	Black and white column; 10.	F.R. on T.V. mast about 150 meters SE.
32576 <i>D 7022</i>	Cap Sainte Marie.	25° 35.7' S 45° 08.6' E	Fl.W. period 10s	630 192	23	Square masonry tower, white corners; 49.	
BAIE DE ST. AUGUSTIN:							
32580 <i>D 7024</i>	-Tulear Range, front.	23° 22.0' S 43° 38.0' E	F.R.	39 12	10	White beacon, black bands; 26.	Intensified 111° 30' - 117° 30' . <i>Temporarily extinguished.</i>
32584 <i>D 7024.1</i>	--Anosy Beacon, rear, 200 meters 114° 30' from front.	23° 21.4' S 43° 38.4' E	F.W.	62 19	10	White square masonry tower, black lantern; 56.	
32588 <i>D 7025</i>	-Range, front, on reef.	23° 23.4' S 43° 39.0' E	Q.G.	46 14	5	White column with white base; 43.	
32592 <i>D 7025.1</i>	--Rear, 900 meters 148° from front.	23° 23.9' S 43° 39.3' E	Q.G.	52 16	5	White column on white base; 49.	
32598 <i>D 7026.5</i>	Ile Europa.	22° 19.1' S 40° 20.4' E	Fl.R. period 5s	69 21	9	Round pylon; 53.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MADAGASCAR							
MOROMBE:							
32600 D 7027	-Nosy Lava.	21° 43.9' S 43° 17.7' E	Oc.W. period 6s lt. 4.5s, ec. 1.5s	92 28	10	White square tower, black lantern; 56.	
32604 D 7028	-Range, front.	21° 45.0' S 43° 21.0' E	F.R.	56 17	9	White beacon, black band; 33.	On request. Intensified 127° -139°.
32608 D 7028.1	--Rear, 645 meters 133° from front.	21° 45.1' S 43° 21.2' E	F.R.	79 24	9	White beacon, black stripe; 49.	On request. Intensified 127° -139°.
32612 D 7029	Balise de Betaolampia.	20° 25.0' S 44° 14.0' E	Oc.(2)W.R.G. period 9s lt. 4.5s, ec. 1.5s lt. 1.5s, ec. 1.5s	219 67	W. 10 R. 7 G. 6	Brick beacon, white slatted shield; 36.	W. 088° -105°, R.-114°, W.-135°, R.-162°, W.-185°, G.-200°.
32616 D 7030	Morondava.	20° 17.0' S 44° 17.0' E	Oc.W.R. period 4s lt. 3s, ec. 1s	98 30	W. 14 R. 10	Water tower.	W. 050° -063° 30', R.-073°, W.-320°.
32620 D 7032	Maintirano.	18° 04.0' S 44° 01.0' E	F.W.	95 29	10	White octagonal tower; 39.	
32624 D 7033	Ile Juan de Nova.	17° 03.1' S 42° 41.8' E	Fl.(2+1)W. period 15s fl. 1s, ec. 1.5s fl. 1s, ec. 5.2s fl. 1s, ec. 5.3s	121 37	9	White tower, black top; 89.	
32628 D 7033.7	Cap Saint Andre.	16° 11.5' S 44° 27.0' E	Fl.(2)W. period 10s	85 26	20	White metal pylon; 79.	
32636	<i>Passe d'Ampajony Lighted Buoy.</i>	15° 24.0' S 46° 14.0' E	Q.W.			Red and white striped buoy, X topmark.	Radar reflector.
BAIE DE BOMBETOKE:							
32640 D 7034	-Pointe Katsepe.	15° 43.0' S 46° 13.0' E	Fl.W. period 5s fl. 0.1s, ec. 4.9s	397 121	28	White metal tower, black band; 118.	
32644 D 7037	-Pointe de Sable.	15° 44.0' S 46° 18.0' E	Oc.(2+1)W. period 12s lt. 4s, ec. 1s lt. 4s, ec. 1s lt. 1s, ec. 1s	36 11	12	White tower, black cupola; 30.	Visible 328° -148°. Reserve light shows F.W. partially obscured by trees.
32648 D 7041	-Jetee Schneider.	15° 43.0' S 46° 17.0' E	Oc.(2)R. period 9s	30 9	6	White tower, red lantern; 16.	
32652 D 7036	-Anorombato Pointe, E. side of entrance.	15° 43.0' S 46° 18.0' E	Oc.(3)W.R.G. period 12s lt. 4.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s	137 42	W. 14 R. 10 G. 9	White tower, black cupola; 30.	G. shore-116°, W.-122°, R.-145°, W.-167°, G.-186°, W.-shore.
32656 D 7043	-AMBOROVY AVIATION LIGHT.	15° 40.2' S 46° 20.9' E	Aero.Fl.(4)W. period 12s 4 fl. 6s, ec. 6s				
32660 D 7035	-Nosy Beza Range, front.	15° 45.9' S 46° 20.0' E	Dir.Iso.W. period 4s	62 19	13	White lattice tower, black top, white daymark; 59.	Intensified 129° -135°.
32664 D 7035.1	--Rear, 5.4 kilometers 132° from front.	15° 47.9' S 46° 22.2' E	Dir.Oc.W. period 6s	190 58	13	White tower; 62.	Intensified 129° -135°.
32666 D 7038	-Mahajanga Range, front.	15° 43.6' S 46° 18.7' E	Oc.(2+1)R. period 12s lt. 4s, ec. 1s lt. 4s, ec. 1s lt. 1s, ec. 1s	16 5	7	Red pylon; 13.	Visible 257° -122°.
32666.1 D 7038.1	--Rear, 220 meters 061° 30' from front.	15° 43.6' S 46° 18.8' E	Q.R.	33 10	6	Red column; 26.	Obscured by buildings on quay.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MADAGASCAR							
32668 <i>D 7042</i>	-Extremity of wharf.	15° 43.7' S 46° 18.3' E	F.R.		20 6	6	Red metal framework tower; 6.
32672 <i>D 7048</i>	Analalava.	14° 38.0' S 47° 45.0' E	Oc.(2)W.R.G. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	203 62	W. 10 R. 7 G. 6	White tower, black cupola; 30.	G. 065° -092° , W.-095° , R.-142° , obscured elsewhere. A F.R. is shown from the jetty.
32676 <i>D 7050</i>	Ampasikely.	14° 37.9' S 47° 45.8' E	F.W.R.	62 19	W. 5 R. 3	White candelabrum, on masonry pedestal; 23.	W. 049° -059° , R.-071° , obscured elsewhere.
32680 <i>D 7052</i>	Nosy Lava.	14° 33.0' S 47° 36.0' E	Fl.(2)W. period 10s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 7.2s	400 122		20	Metal tower, black and white; 49. Obscured 295° -325° .
32684 <i>D 7056</i>	Nosy Iranja.	13° 36.0' S 47° 49.0' E	Fl.W. period 5s	245 75		17	White tower, black top; 65. Visible 348° -240° .
32688 <i>D 7058</i>	Tany Kely, entrance of Baie d' Ampasindava, highest part of islet.	13° 29.0' S 48° 15.0' E	Fl.(3)W. period 15s fl. 1.5s, ec. 1.5s fl. 1.5s, ec. 1.5s fl. 1.5s, ec. 7.5s	187 57		11	White round tower, black cupola, black band under gallery. Aeromarine light.
32692 <i>D 7062</i>	Nosy Vorona, summit of island.	13° 26.0' S 48° 22.0' E	Fl.(2)W.R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	52 16	W. 8 R. 5	White octagonal tower, gray lantern; 26.	W. 072° -080° , R.-232° , W.-280° , R.-072° . Reserve light F.W.R.
32708 <i>D 7065</i>	Ampasimena Range, front.	13° 24.0' S 48° 17.5' E	Dir.Q.G.	23 7		11	White beacon, black stripe; 23. Intensified 014° 30' -019° 30' .
32712 <i>D 7065.1</i>	-Rear, 600 meters 017° from front.	13° 23.8' S 48° 17.2' E	Dir.Q.G.	79 24		11	White beacon, black stripe; 20. Intensified 014° 30' -019° 30' .
32716 <i>D 7068</i>	Nosi Faly, summit.	13° 19.0' S 48° 29.0' E	F.W.R.	246 75	W. 8 R. 6	Gray octagonal tower; 25.	W. 026° -236° , R.-026° .
32720 <i>D 7069</i>	Port St. Louis, entrance Range, front.	13° 05.0' S 48° 50.0' E	Q.R.	36 11		6	Trapezoidal daymark, white and red median stripe. Visible 020° -200° .
32724 <i>D 7069.1</i>	-Rear, 1646 meters 110° from front.	13° 05.4' S 48° 50.8' E	Dir.Q.R.	59 18		16	Metal framework tower, white trapezoidal daymark, red stripe; 52. Intensified 108° -112° .
32728 <i>D 7070</i>	Nosi Anambo (Woody Island).	12° 16.0' S 48° 39.0' E	Oc.(3)W.R. period 12s lt. 4.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s	138 42	W. 14 R. 10	White metal framework tower, red top; 89.	W. 059° -237° , R.-059° .
COMOROS							
32732 <i>D 6882.1</i>	-Vigie.	12° 09.8' S 44° 23.9' E	Q.W.	276 84		5	White square tower, black bands; 17. Floodlit residence close by.
32736 <i>D 6883</i>	-Jetty, head.	12° 09.8' S 44° 23.6' E	Oc.(2)R. period 5s	44 13			Red lantern on hut. Aero Radiobeacon 3 miles NE.
MORONI GRANDE COMORE:							
32744 <i>D 6904</i>	-Suadzu Islet Range, front.	11° 41.9' S 43° 14.4' E	Q.R.	20 6		7	White tower, red top; 20. Partially obscured by buildings.
32748 <i>D 6904.1</i>	--Rear, 220 meters 105° from front.	11° 41.9' S 43° 14.6' E	Q.R.	69 21		7	White minaret. Partially obscured by buildings.
32752 <i>D 6902</i>	-Moroni.	11° 42.0' S 43° 14.5' E	Q.W.	85 26		10	White minaret; 75. Aero Radiobeacon 0.9 mile NNE.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
COMOROS							
MAYOTTE (FR):							
32760 <i>D 6896</i>	-Ilot Dzaoudzi, W. jetty, head.	12° 46.8' S 45° 15.1' E	Fl.(2)G. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	20 6	7	White square post, black lantern; 10.	Visible 300° -210° .
32764 <i>D 6897</i>	--E. jetty, head.	12° 46.8' S 45° 15.4' E	Fl.R. period 4s fl. 1s, ec. 3s	20 6	7	White square post, red lantern; 10.	Visible 135° -045° .
32766 <i>D 6894.6</i>	-Pamanzi Range, front.	12° 46.4' S 45° 16.4' E	Dir.V.Q.W.	36 11	12		Intensified 139° 30' - 142° 30' .
32766.1 <i>D 6894.61</i>	-Rear, 1700 meters 141° from front.	12° 47.1' S 45° 17.0' E	Dir.V.Q.W.	164 50	8		Intensified 132° -150° .
32768 <i>D 6900</i>	-Bandeles Passage Range, front.	12° 52.4' S 45° 13.0' E	Dir.Q.R.	69 21	5	White octagonal tower, red band; 26.	Intensified 284° -302° . Aero Radiobeacon 5.8 miles NE, on Pamanzi.
32772 <i>D 6900.1</i>	--Rear, 273 meters 292° 42' from front.	12° 52.3' S 45° 12.8' E	Dir.Q.R.	177 54	5	White octagonal tower, red band; 26.	Intensified 284° -302° .
32776 <i>D 6898</i>	-Mamutzu, jetty, head.	12° 46.5' S 45° 13.8' E	Fl.(4)R. period 15s	13 4	7	Square gray post, topmark of two squares.	
32777 <i>D 6891</i>	-Cap Douamougno.	12° 39.0' S 45° 06.1' E	Iso.W.R.G. period 4s	266 81	W. 9 R. 6 G. 6	Beacon.	G. 022° -194° , W.-209° , R.- 022° . In line 202° with Dziani Bole summit.
32777.1 <i>D 6892.6</i>	-S. Jumeaux Reef.	12° 39.8' S 45° 07.9' E	Fl.(3)R. period 12s	23 7	4	Beacon.	
32777.2 <i>D 6892</i>	-Ile M'Songoma Range, front.	12° 41.2' S 45° 07.6' E	Dir.V.Q.W.		13	Beacon.	Intensified 172° 30' - 175° 30' .
			Dir.V.Q.W.R.G		W. 10 R. 7 G. 7		G. 279° -290° , W.-292° , R.- 296° .
32777.21 <i>D 6892.1</i>	--Rear, 1300 meters 174° from front.	12° 41.9' S 45° 07.6' E	Dir.V.Q.W.		11	Beacon.	Intensified 165° -183° .
32777.4 <i>D 6892.5</i>	-Vancluse Reef.	12° 39.2' S 45° 07.2' E	Fl.(4)G. period 15s	29 9	4	STARBOARD (A) G, beacon, topmark.	
32777.5 <i>D 6894</i>	-Isle Blanche.	12° 43.1' S 45° 10.4' E	Fl.(2)W.R.G. period 6s		W. 9 R. 6 G. 6	Beacon.	W. 133° -142° , G.-320° , R.- 133° .
32777.6 <i>D 6893</i>	-Baie de Longoni.	12° 43.2' S 45° 09.7' E	Fl.G. period 2.5s		3	Green beacon.	Beacons Fl.(2)G. 6s and Fl.(3)G. 12s close E.
32777.62 <i>D 6893.6</i>	-Longoni Reef.	12° 42.6' S 45° 09.7' E	Q.(9)W. period 15s		6	W. CARDINAL YBY, beacon, topmark.	
ALDABRA:							
32778	-West Island.	9° 23.8' S 46° 12.1' E	F.W.	42 13	12	Water tower.	
SEYCHELLES							
AMIRANTE ISLES:							
32780 <i>D 6873</i>	-African Island, center of North Island.	4° 52.5' S 53° 23.6' E	Q.(2)W. period 10s	102 31	10	White metal framework tower.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SEYCHELLES							
32784 <i>D 6874</i>	-Ile Desroches, NE. end.	5° 40.3' S 53° 42.1' E	L.F.I.W. period 10s fl. 3s, ec. 7s	105 32	10	White metal framework tower.	Visible 122° -036° .
32785 <i>D 6875</i>	-Remire Island.	5° 07.0' S 53° 18.8' E	Q.W.	46 14	10		
32788 <i>D 6877</i>	Providence Island, N. end (UK).	9° 12.8' S 51° 02.2' E	Fl.W. period 5s fl. 0.3s, ec. 4.7s	105 32	10	White metal framework tower.	Visible 020° -359° .
MAHE ISLAND, PORT VICTORIA:							
32792 <i>D 6866</i>	-AVIATION LIGHT, island, NE. point.	4° 34.9' S 55° 27.8' E	F.I.R.	410 125		Red and white metal framework tower; 10.	Visible 202° 30' -000° 30' . Shown 24 hours.
32796 <i>D 6868</i>	-Victoria Light.	4° 37.1' S 55° 28.2' E	Fl.W. period 6.7s fl. 0.7s, ec. 6s	38 12	7	White round masonry tower; 35.	R. lights on radio mast 1.5 miles W. F.R. and 2 F.R. on radio mast 2.8 miles SSW. Fl.R. (occas.) 2.1 miles S. and 3.3 miles SSE.
	-AVIATION LIGHT.		Q.W.				Occasional.
32800 <i>D 6865</i>	-Saint Anne Island, Summit AVIATION LIGHT.	4° 36.2' S 55° 30.2' E	F.R.	827 252		White building; 13.	Also shown by day.
32804 <i>D 6867</i>	-Range, front.	4° 37.8' S 55° 28.4' E	Oc.R.			Orange beacon.	Visible 200° -220° . Leading lights may be obscured when high intensity stadium lights are in use.
32808 <i>D 6867.1</i>	-Rear, 1646 meters 210° from front.	4° 38.6' S 55° 28.0' E	Oc.R.			Orange beacon.	Visible 200° -220° .
			F.R.				
32810.5 <i>D 6867.32</i>	-Inter Island Quay.	4° 37.2' S 55° 27.5' E	Oc.R. period 4s			Orange beacon.	
32811.1 <i>D 6867.5</i>	-No. 9.	4° 37.2' S 55° 27.9' E	Fl.G. period 5s			Green beacon.	
32812 <i>D 6870</i>	-Police Point, S. extremity.	4° 48.1' S 55° 31.2' E	Fl.(2)W. period 15.4s fl. 0.7s, ec. 3s fl. 0.7s, ec. 11s	202 62	7	White masonry tower; 5.	Visible 276° -128° .
32816 <i>D 6871</i>	-Cape Ternay.	4° 38.1' S 55° 21.9' E	V.Q.(2)W. period 10s fl. 0.2s, ec. 0.4s fl. 0.2s, ec. 9.2s	68 21	10	White concrete tower.	Visible 026° -221° .
MAHE ISLAND:							
32820 <i>D 6864</i>	-Mamelle Island, on summit.	4° 29.0' S 55° 32.4' E	Fl.W. period 2.5s fl. 0.2s, ec. 2.3s	161 49	11	White square stone structure, red roof; 21.	
32824 <i>D 6862</i>	Praslin Island, St. Anns Bay, Point Cabris.	4° 21.2' S 55° 46.3' E	Fl.W. period 10s	52 16	5	White masonry tower.	Visible 222° -055° .
32828 <i>D 6862.4</i>	-Zanguilles Point.	4° 17.4' S 55° 44.6' E	Q.W.	52 16	5	White round masonry tower.	Visible 117° -133° 30' and 197° 284° .
32832 <i>D 6861</i>	Praslin Island, Grande Anse.	4° 20.2' S 55° 43.1' E	Fl.W. period 3s	10 3	5	White square masonry tower.	
32840 <i>D 6863</i>	-La Digue Island.	4° 20.8' S 55° 49.6' E	Fl.W. period 5s	20 6	5	White square stone tower.	Visible 026° -186° .
32844 <i>D 6860</i>	Denis Island, N. side.	3° 47.7' S 55° 40.0' E	Fl.W. period 5s fl. 0.8s	120 37	10	White iron tower; 90.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MAURITIUS							
32848 <i>D 7102</i>	Flat Island.	19° 52.8' S 57° 39.0' E	Fl.(4)W. period 30s	364 111	29	White tower, red lantern; 53.	
32852 <i>D 7096</i>	Pointe aux Caves.	20° 11.0' S 57° 25.0' E	Fl.(2)W. period 10s fl. 0.2s, ec. 1.6s fl. 0.2s, ec. 8s	152 46	29	White tower, 2 red bands; 97.	F.R. lights on 3 radio masts 11 miles SSE. Aero Radiobeacon 6.8 miles SW.
	Auxiliary light.		F.R.	99 30	10	Same tower.	Visible 216° -shore SE.
PORT LOUIS:							
32861 <i>D 7101</i>	-Entrance Range, front.	20° 09.5' S 57° 29.9' E	Oc.R. period 10s lt. 7.5s, ec. 2.5s	128 39	13	Red and white metal structure.	
32861.5 <i>D 7101.1</i>	--Rear, 496 meters 127° 30' from front.	20° 09.6' S 57° 30.2' E	Dir.F.FI.AI.W.R.G.	226 69	17	Bank building, white diamond topmark.	Fl.G. 121° 54' -124° 06' , F.G.-125° 01' , Al.G.W.-127° 13' , F.W.-127° 47' , Al.W.R.-129° 59' , F.R.-130° 54' , Fl.R.-133° 06' .
32872 <i>D 7097</i>	-Martello Tower.	20° 09.9' S 57° 27.9' E	Al.Iso.W.G. period 4s W. lt. 1s, ec. 1s G. lt. 1s, ec. 1s	79 24	10	Black stone tower, white stripes, 39.	
32880 <i>D 7104</i>	AVIATION LIGHT.	20° 25.8' S 57° 40.4' E	Mo.(P)W.				
REUNION (FR.)							
32884 <i>D 7073</i>	Ile Tromelin.	15° 53.0' S 54° 31.0' E	Fl.W. period 4s	49 15	12	On roof of meteorological station; 36.	
32888	Albatross Island.	16° 15.0' S 59° 34.0' E	Fl.(2)W. period 20s fl. 1s, ec. 1s fl. 1s, ec. 17s	30 9	12		May be obscured from northward by trees.
32892 <i>D 6881.6</i>	Coco Island.	16° 49.0' S 59° 31.0' E	Fl.(3)W. period 30s	27 8	12		
PORT DES GALETS:							
32896 <i>D 7077</i>	-Le Port.	20° 56.1' S 55° 17.1' E	Fl.(2)W. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	102 31	21	Cement silo; 85.	
32900 <i>D 7080</i>	-Entrance Range, front.	20° 56.3' S 55° 17.3' E	F.R.	65 20	6	Pylon, white square daymark, black stripe and orange border; 36.	
32904 <i>D 7080.1</i>	--Rear, about 80 meters 102° 30' from front.	20° 55.5' S 55° 17.7' E	F.R.	92 28	6	House, white square daymark, black stripe and red vertical edges; 56.	
32908 <i>D 7078</i>	-S. jetty, head.	20° 56.2' S 55° 16.9' E	Fl.G. period 4s	43 13	7	White metal column with platform; 36.	
32912 <i>D 7081.9</i>	-N. jetty, head.	20° 56.2' S 55° 16.9' E	Q.R.	42 13	9	White framework tower, red top; 36.	
32916 <i>D 7083.46</i>	-N. pier, head.	20° 56.2' S 55° 16.9' E	Iso.G. period 4s	23 7	3	White and green mast; 13.	Visible 170° -075° .
32920 <i>D 7082.3</i>	-N. basin Range, front.	20° 55.9' S 55° 17.2' E	F.R.	92 28	5	Red rectangular daymark, white stripe; 75.	Visible 300° -025° .
32924 <i>D 7082.31</i>	--Rear, 60 meters 009° from front.	20° 55.1' S 55° 17.6' E	F.R.	105 32	5	Red rectangular daymark, white stripe; 75.	Visible 300° -025° .

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
REUNION (FR.)							
32928 <i>D 7083</i>	-S. basin Range, front.	20° 56.4' S 55° 17.1' E	F.G.		59 18	Green framework tower, white square daymark, green stripe.	Visible 175° -230° .
32932 <i>D 7083.1</i>	--Rear, 60 meters 189° from front.	20° 55.8' S 55° 17.5' E	F.G.		69 21	5 Green framework tower, white square daymark, green stripe.	Visible 175° -230° .
32936 <i>D 7083.4</i>	-Fish basin Range, front.	20° 56.3' S 55° 17.0' E	F.G.		36 11	3 White column, white square daymark, black stripe.	Visible 235° -275° .
32940 <i>D 7083.41</i>	--Rear, 35 meters 265° 42' from front.	20° 55.6' S 55° 17.3' E	F.G.		42 13	3 White square daymark, black stripe on white column.	Visible 235° -275° .
32948 <i>D 7083.61</i>	-Dir. Lt., 162° .	20° 56.3' S 55° 19.5' E	Dir.W.R.G.		125 38	W. 4 R. 2 G. 2	Black tower. Fl.G. 157° -158° 45' , F.G. 159° 45' , Al.W.G. 161° 48' , F.W. 162° 12' , Al.W.R. 164° 15' , F.R. 165° 15' , Fl.R. 167° .
32952 <i>D 7083.75</i>	-W. jetty, head.	20° 55.6' S 55° 19.1' E	Fl.G. period 4s		49 15	8 White column, green top; 33.	
32956 <i>D 7083.7</i>	-E. jetty, head.	20° 55.6' S 55° 19.3' E	Fl.R. period 4s		49 15	8 White column, red top; 33.	
32964 <i>D 7083.9</i>	-E. dock Range, front.	20° 55.9' S 55° 19.7' E	F.R.		85 26	5 White pylon, red rectangular daymark; 66.	
32968 <i>D 7083.91</i>	--Rear, 100 meters 085° from front.	20° 55.1' S 55° 20.1' E	F.R.		108 33	5 White pylon, red rectangular daymark; 42.	
32970	Saint Marie, W. breakwater.	20° 52.7' S 55° 32.5' E	Fl.G. period 2.5s			3 White metal tower.	
32970.2	-E. breakwater.	20° 52.7' S 55° 32.5' E	Fl.R. period 2.5s			3 White metal tower.	
32972 <i>D 7084</i>	Pointe de Bel Air.	20° 54.2' S 55° 36.2' E	Fl.(3)W. period 15s fl. 0.4s, ec. 2.6s fl. 0.4s, ec. 2.6s fl. 0.4s, ec. 8.6s		157 48	23 Red and white tower, green cupola; 82.	Visible 109° -331° . Aero Radiobeacon 5.3 miles W.
32976 <i>D 7086</i>	Pointe de la Table.	21° 19.8' S 55° 48.0' E	Oc.(2)W. period 6s lt. 1s, ec. 1s lt. 3s, ec. 1s		197 60	8 White square tower; 19.	
SAINT-PIERRE:							
32978 <i>D 7089.05</i>	-Terre Sainte jetty, head.	21° 20.9' S 55° 28.7' E	Fl.W.G. period 4s		43 13	W. 10 G. 7	W. 323° -060° , G.-323° .
32980 <i>D 7088</i>	-Entrance Range, front.	21° 20.7' S 55° 28.8' E	Q.G.		23 7	3 White round tower, green top; 20.	
32984 <i>D 7088.1</i>	--Rear, 60 meters 029° 12' from front.	21° 20.7' S 55° 28.8' E	Q.G.		36 11	3 White round tower, green top; 33.	
32988 <i>D 7089</i>	-Jetty, head.	21° 20.8' S 55° 28.7' E	Fl.R. period 4s		16 5	3 White square post, red top; 13.	
ETANG SALE:							
32992 <i>D 7089.4</i>	-Entrance Range, front.	21° 15.8' S 55° 20.0' E	Q.R.		26 8	9 White masonry tower, red top, white rectangular daymark, red stripe; 10.	Aero Radiobeacon 1.8 miles ESE.
32996 <i>D 7089.41</i>	--Rear, 60 meters 089° from front.	21° 15.0' S 55° 20.4' E	Q.R.		33 10	9 White masonry tower, red top, white rectangular daymark, red stripe; 20.	
33000 <i>D 7090</i>	Saint-Leu, jetty, head.	21° 10.1' S 55° 17.2' E	Fl.G. period 4s		30 9	5 White square tower, green top; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
REUNION (FR.)							
SAINT GILLES LES BAINS:							
33004 <i>D 7091</i>	-W. jetty, head.	21° 03.3' S 55° 13.3' E	Oc.(2)G. period 6s lt. 1s, ec. 1s lt. 3s, ec. 1s	39 12	7	White structure, green top; 26.	
33008 <i>D 7091.2</i>	-E. jetty, head.	21° 03.3' S 55° 13.3' E	Oc.(2)R. period 6s lt. 1s, ec. 1s lt. 3s, ec. 1s	30 9	5	White structure, red top; 26.	
33012 <i>D 7091.4</i>	-Entrance Range, front.	21° 03.3' S 55° 13.4' E	Q.W.	13 4	4	White column, green top.	Visible 156° 30' -165° 30' .
33016 <i>D 7091.41</i>	--Rear, 45 meters 161° from front.	21° 03.3' S 55° 13.4' E	Q.W.	26 8	4	White column, green top; 20.	Visible 156° 30' -165° 30' .
33020 <i>D 7092</i>	Saint-Paul.	21° 00.5' S 55° 16.1' E	Oc.W. period 4s lt. 3s, ec. 1s	65 20	9	White pylon, black top; 46.	
RODRIGUES ISLAND							
MATHURIN BAY:							
33028 <i>D 7114</i>	-Port Mathurin Range, front.	19° 41.0' S 63° 25.0' E	Q.R.	25 8	5	White framework tower.	2 F.W. lights 0.3 mile N. (occasional).
33032 <i>D 7114.1</i>	--Rear, about 420 meters 165° 30' from front.	19° 40.8' S 63° 25.4' E	Q.R.	212 65	10	White diamond.	Shown only when required.
CHAGOS ARCHIPELAGO							
33036 <i>K 0800</i>	Diego Garcia AVIATION LIGHT.	7° 18.5' S 72° 24.8' E	Al.FI.W.G. period 10s	132 40	12	Control tower.	
33040 <i>K 0801</i>	-West Island.	7° 14.9' S 72° 23.1' E	Fl.(2)G. period 5s	33 10	6	Silver framework tower, orange and black checkered diamond daymark.	
33044 <i>K 0805</i>	-Small boat basin breakwater, head.	7° 17.4' S 72° 23.4' E	Fl.R. period 2s				
33050 <i>K 0805.6</i>	--Wharf, head.	7° 17.4' S 72° 23.4' E	Fl.G. period 5s				
33052 <i>K 0806</i>	--Harbor control tower.	7° 17.4' S 72° 23.6' E	FR.			Concrete building.	
33056 <i>K 0802</i>	-Observatory Point.	7° 14.3' S 72° 26.1' E	Fl.W. period 4s	33 10	5	White framework tower, orange and black checkered diamond daymark.	
33060 <i>K 0807</i>	-Trig station Bolt, Leconte Point.	7° 17.0' S 72° 28.0' E	Fl.R. period 2.5s	33 10	3	White framework tower, orange and black checkered diamond daymark.	
33064 <i>K 0808.5</i>	-Minni Minni.	7° 19.5' S 72° 28.5' E	Dir. F.W.R.G.	46 14	20	Round tower; 46.	G. 133° 12' -133° 48' , W.-134° 12' , R.-134° 48' . 9M range during day.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ILES CROZET (FR.)							
ILE DE LA POSSESSION:							
-Port Alfred:							
33072 <i>D 7119.5</i>	--Anchorage Range, Cap Seince.	46° 25.4' S 51° 52.3' E	2 F.G.			6 Beacons, black and white stripes.	Lights in line 296° 70 meters apart.
33076 <i>D 7119.51</i>	---Cap Lieutard.	46° 25.8' S 51° 52.5' E	2 F.R.			7 Beacons, black and white stripes.	Lights in line 212° 46 meters apart.
ILE AMSTERDAM (FR.)							
33080	Pointe Hosken, SE anchorage Range, front.	37° 49.0' S 77° 34.0' E	Fl.R. period 2s			7 Red and white checkered beacon.	Occasional.
33084 <i>K 0822.1</i>	-Rear, 42 meters 244° from front.	37° 48.0' S 77° 32.5' E	Fl.R. period 2s			7 Red and white checkered beacon.	Occasional.
33088 <i>K 0822.4</i>	-NW. anchorage Range, front.	37° 49.0' S 77° 34.0' E	F.G.			6 White rectangular daymark.	Occasional.
33092 <i>K 0822.41</i>	-Rear, 20 meters 222° from front.	37° 47.4' S 77° 31.5' E	F.G.			6 White rectangular daymark.	Occasional.
ILES DE KERGUELEN (FR.)							
PRESQU'ILE COURBET:							
33096 <i>K 0820</i>	-Pointe Molloy.	49° 22.1' S 70° 05.1' E	Fl.R. period 2.5s fl. 0.5s, ec. 2s	49 15		3 White beacon.	
33100 <i>K 0820.4</i>	-Baie du Morbihan Range, front.	49° 21.1' S 70° 04.9' E	Dir.Q.W.		16 5	12 White beacon, black arrow, point up.	
33104 <i>K 0820.41</i>	--Rear, 314° 30' from front.	49° 21.0' S 70° 04.4' E	Dir.Q.W.		65 20	12 White beacon, black arrow, point down	
33106 <i>K 0819</i>	-Ile Murray.	49° 30.9' S 70° 15.9' E	Fl.(3)W. period 12s	160 49		11	
33107 <i>K 0821.5</i>	-Ile Channer.	49° 22.9' S 70° 11.3' E	Q.(9)W. period 15s	33 10		6 W. CARDINAL YBY, beacon, topmark.	
-Port Aux Francais:							
33108 <i>K 0821.4</i>	--Anchorage Range, front.	49° 21.2' S 70° 12.5' E	Dir.F.R.		23 7	16 White beacon, red stripe.	Visible on range line only.
33112 <i>K 0821.41</i>	---Rear, 183 meters 329° from front.	49° 21.2' S 70° 12.4' E	Dir.F.R.		69 21	16 White beacon, red stripe.	Visible on range line only.
33120 <i>K 0821</i>	--Entrance Range, front.	49° 21.3' S 70° 13.7' E	Dir.Q.W.		26 8	19 Black and white checkered beacon.	Visible on range line only. Q.W. on radio mast 0.7 mile NE.
33124 <i>K 0821.1</i>	---Rear, 732 meters 058° from front.	49° 20.1' S 70° 14.2' E	Dir.Q.W.		65 20	19 Black and white checkered beacon.	Visible on range line only.

Section 22

Radiobeacons

(1) No.	(2) Name	(3) Position	(4) Characteristic	(5) Range	(6) Sequence	(7) Frequency	(8) Remarks
SOUTH AFRICA							
50	George	34° 00.2' S 22° 29.2' E	GG (-- • -- •).	100		260 A2A.	AERO.
MOZAMBIQUE							
200	Macuti Light Station	19° 50.7' S 34° 53.9' E	MC (-- • -- • •). period 360s tr(3) 9s si 1s (—) 26s si 6s repeats(2) 84s si 234s	150		302 A1A.	Transmits continuously during periods of low visibility. During periods of clear weather, transmits at 06, 12, 36, and 42 minutes past each hour.
MAURITIUS							
225	Plaisance (West)	20° 16.8' S 57° 23.0' E	FF (•••• ••••).	100		258. NON A2A.	AERO.
COMORO ISLANDS							
230	Dzaoudzi, Isle Pamanzi	12° 48.0' S 45° 17.0' E	FJO (•••• •••• ---).	100		341 A1A.	AERO.
240	Anjouan	12° 08.0' S 44° 26.0' E	AJ (•- ••••).	50		369 A1A.	AERO.
250	Moroni	11° 41.0' S 43° 15.0' E	FXM (•••• -••• - -).	200		387 A1A.	AERO.
INDIAN OCEAN							
260	Iles Glorieuses	11° 33.0' S 47° 17.0' E	FXZ (•••• -••• -••••).	100		335 A1A.	AERO.
270	Ile Europa	22° 20.0' S 40° 21.0' E	FXE (•••• -••• •).	100		352 A1A.	AERO.
340	St. Pierre, Reunion	21° 16.1' S 55° 22.0' E	SP (••• ••••).	50		352 A1A.	AERO.
350	Saint Denis Gillot, Reunion	20° 53.1' S 55° 30.6' E	FXR (•••• -•••• ••••).	170		382 A2A.	AERO.
370	Diego Garcia	7° 17.4' S 72° 23.1' E	NKW (-• -•• •••).	300		300 NON, A2A.	AERO.
380	Mahe Island, Seychelles	4° 37.0' S 55° 26.0' E	SEY (•••• • -••••).	800		373 A2A.	AERO.
382	Coetivy Island, Seychelles	7° 08.5' S 56° 16.2' E	COE (-•••• -••• •).			335 A2A.	AERO.

(1) No.	(2) Name	(3) Position	(4) Characteristic	(5) Range	(6) Sequence	(7) Frequency	(8) Remarks
ETHIOPIA - SUDAN							
410	Assab	13° 04.0' N 42° 38.0' E	SB (••• -•••).	150		345 A2A.	AERO. Transmits between 0300Z-1500Z.
430	Port Sudan	19° 36.5' N 37° 14.0' E	PS (•--• •••).	100		350 A2A.	
EGYPT							
440	Nuweiba	29° 03.0' N 34° 39.8' E	NWB (-• •-- -••-).	150		288 A2A	AERO.
441	Ras Nusrani	27° 57.9' N 34° 22.8' E	SKH (••• -•- •••).			335 A2A.	AERO. Transmits between 0600-1500Z.
OMAN							
450	Salalah	17° 02.0' N 54° 05.0' E	SAN (••• •- -•).	143		310 NON, A2A.	AERO.
470	Muscat/Seeb	23° 35.4' N 58° 15.1' E	NSB (-• ••• -•••).			318 NON, A2A.	AERO.
UNITED ARAB EMIRATES							
490	Dubayy	25° 13.8' N 55° 23.7' E	DO (-•• -••-).			265 A1A	AERO.
500	Jabal Dhanna	24° 11.0' N 52° 37.0' E	JD (•-•• -••).			302.5 NON, A2A.	AERO.
505	Jazirat Zirkuh	24° 51.8' N 53° 04.8' E	ZKU (-••• -•- ••-).	130		275 NON, A2A.	AERO.
508	Abu Al Bukhush	25° 29.8' N 53° 08.9' E	RP (•-• •--•).	28		248 A2A.	AERO.
510	Das Island	25° 08.0' N 52° 52.0' E	ID (•• -••).	92		366 NON, A2A.	AERO.
512	Fujayrah	25° 06.0' N 56° 21.0' E	FUJ (•••• ••- •-•-•-).			400 NON, A2A.	AERO.
PERSIAN GULF							
520	Ad Dawhah, Qatar	25° 18.0' N 51° 33.0' E	BD (-••• -••).	150		377 NON, A2A.	AERO.
530	Bahrain	26° 17.0' N 50° 38.0' E	BI (-••• ••).	200		352 NON, A2A.	AERO.
550	Bandar Al Mish'ab	28° 04.9' N 48° 36.7' E	RAS (•-• •- •••).	200		318 NON, A2A.	AERO.
IRAN							
570	Kharq Island	29° 15.0' N 50° 19.0' E	KHG (-•- •••• -••).	100		325 A2A.	AERO.
580	Sheykh Sho'eyb (Lavan Island)	26° 48.0' N 53° 23.0' E	LD (•-•• -••).	192		310 A1A.	AERO. Transmits only during the day.

(1) No.	(2) Name	(3) Position	(4) Characteristic	(5) Range	(6) Sequence	(7) Frequency	(8) Remarks
IRAN							
600	Sirri	25° 54.1' N 54° 32.3' E	SIR (••• •• •-•).			300 NON, A2A.	AERO.
MALDIVES							
617	Gan	0° 41.9' S 73° 09.8' E	GN (-•• -•).	240		317 A2A.	AERO.
INDIA							
640	Porbandar	21° 37.2' N 69° 37.2' E	PB (•-•• -•••).	170		293 A2A.	Repeats 3 times at 06, 12, 18, 24, 30, 36, 42, 48 and 54 minutes past each hour.
650	Diu Head Light Station	20° 41.5' N 70° 49.7' E	DH (-•• ••••). period 360s tr(4) 20s (-) 25s tr(4) 20s (-) 25s tr(2) 10s si 260s	155		289 A2A.	
665	Ratnagiri	16° 59.1' N 73° 16.4' E	RG (•-• -••).	170		308 A2A.	Repeats twice at 02, 08, 14, 20, 26, 32, 38, 44, 50 and 56 minutes past each hour.
670	Bombay	19° 07.0' N 72° 50.0' E	BB (-•••• -••••).	500		265 A2A.	AERO.
691	Chetlat Island	11° 41.8' N 72° 43.1' E	CT (-••• -).	170		289 A2A.	
700	Cochin	9° 56.0' N 76° 17.0' E	CC (-••• -•••).	240		325 NON, A2A.	AERO. Transmits between 0300-1500.
710	Trivandrum	8° 29.4' N 76° 54.4' E	TV (- •••-).	315		299 NON, A2A.	AERO.
715	Nagappattinam	10° 45.8' N 79° 51.0' E	NP (-• •-•••). period 360s			295 A2A.	
730	Madras	13° 02.0' N 80° 10.0' E	MV (-• •••-).	500		292 NON, A2A.	AERO.
740	Antarvedi Light Station	16° 19.2' N 81° 43.7' E	NT (-• -).	180		315 A2A.	
747	Gopalpur	19° 15.3' N 84° 54.2' E	GP (-•• •-•••).			292 A2A.	
752	Paradip Light Station	20° 15.3' N 86° 39.4' E	PD (•-•• -•••). period 360s	170		318 A2A.	
SRI LANKA (CEYLON)							
770	Colombo/Ratmalana	6° 50.0' N 79° 53.0' E	RM (•-• -•).	164		350 A2A.	AERO.
BANGLADESH							
780	Chittagong	22° 15.0' N 91° 49.0' E	EG (• -••).	155		287 NON, A2A.	AERO.

(1) No.	(2) Name	(3) Position	(4) Characteristic	(5) Range	(6) Sequence	(7) Frequency	(8) Remarks
BANGLADESH							
790	Kutubdia Island Light Station	21° 51.9' N 91° 50.5' E	KD (- • - - • • •).	100		294 A2A.	
800	Cox's Bazar Light Station	21° 26.0' N 91° 58.4' E	BZ (- • • • • - - - • •).	100		297 A2A.	
BURMA							
820	Victoria Point	10° 03.0' N 98° 33.0' E	KT (- • - - -).	100		290 NON, A2A.	AERO.
THAILAND							
850	Sattahip, Ban U Taphao	12° 39.7' N 100° 59.6' E	UP (• • - - • - - • •).	170		414 A2A.	AERO.
ANDAMAN ISLANDS							
870	East Island Light Station	13° 38.0' N 93° 03.0' E	AN (• - - • •).	180		317 A2A.	
NICOBAR ISLANDS							
880	Keating Point Light Station	9° 15.0' N 92° 46.3' E	NI (- • • • •). period 360s tr 60s si 240s	180		313 A2A.	
MALAYSIA							
890	Kuantan	3° 23.0' N 103° 25.0' E	PK (• - - • • - - • •).	180		282 NON, A2A.	AERO.
900	Kuala Trengganu	5° 22.9' N 103° 06.7' E	TU (- • • • •).	90		312 NON, A2A.	AERO.
INDONESIA (BORNEO)							
905	Tanjung Mangkalihat	0° 59.5' N 118° 59.3' E	MH (- - • • • • •).	100		312. A2A.	
906	Balikpapan	1° 12.9' S 116° 58.5' E	BL (- • • • • • - - • • •).	100		304 A2A.	
907	Tanjung Selatan	4° 10.2' S 114° 38.8' E	TS (- • • • •).	100		296 A2A.	
908	Pontianak	0° 21.7' N 108° 57.2' E	PO (• - - • • - - - • •).	100	I	304 A2A.	Transmits 00, 10, 20, 30, 40, and 50 minutes past each hour.
INDONESIA (SUMATERA)							
910	Sabang	5° 53.7' N 95° 18.8' E	SA (• • • • • - • •).	100		285 A2A.	

(1) No.	(2) Name	(3) Position	(4) Characteristic	(5) Range	(6) Sequence	(7) Frequency	(8) Remarks
INDONESIA (SUMATERA)							
911	Pulau Pesemut	2° 30.0' S 108° 51.0' E	PM (• - - • - -).	100	II	304 A2A.	Transmits 05, 15, 25, 35, 45, and 55 minutes past each hour.
912	Pulau Simedang	3° 19.0' S 107° 12.5' E	SI (• • • • •).	100	I	296 A2A.	Transmits 00, 15, 30 and 45 minutes past each hour.
COCOS ISLANDS							
930	Christmas Island	10° 25.9' S 105° 41.1' E	XXM (- • • • - - - • • •).	110		341 NON, A2A.	AERO.
INDONESIA (JAWA)							
944	Peniki	5° 41.7' S 106° 42.7' E	PI (• - - • • •).	100	II	296 A2A.	Transmits 05, 20, 35 and 50 minutes past each hour.
945	Jamuang	6° 55.6' S 112° 43.7' E	JM (• - - - - -).	100	II	285 A2A.	Transmits at 05, 15, 25, 35, 45 and 55 minutes past each hour.
946	Muria	6° 24.5' S 110° 55.2' E	MU (- - • • -).	100	I	285 A2A.	Transmits at 00, 10, 20, 30, 40 and 50 minutes past each hour.
950	Surabaya/Djuanda	7° 22.0' S 112° 46.0' E	SB (• • • - • • •).	100		325 A2A.	AERO.
952	Cilacap	7° 47.0' S 109° 38.3' E	CI (- • - • • •).	100		320 A2A.	
953	Benoa	8° 50.5' S 115° 11.8' E	BO (- • • • - - -).	100		320 A2A.	
INDONESIA (SULAWESI)							
960	Dewakang Besar	5° 23.7' S 118° 25.3' E	DI (- • • • • •).	100	II	318 A2A.	Transmits at 05, 15, 25, 35, 45 and 55 minutes past each hour.
961	Tanjung Rangasa	3° 33.8' S 118° 56.0' E	TM (- - -).	100	I	318 A2A.	Transmits at 00, 10, 20, 30, 40 and 50 minutes past each hour.
INDONESIA (NEW GUINEA)							
980	Daru Island	9° 04.0' S 143° 13.0' E	DAU (- • • • • - • • •).	80		290 NON, A2A.	AERO.
990	Madang	5° 13.0' S 145° 47.0' E	MD (- - - • • •).	110		362 NON, A2A.	AERO.
1000	Wewak	3° 34.9' S 143° 40.6' E	WK (• - - - • • -).	110		336 A2A.	AERO.
1010.4	Sorong	0° 50.2' S 131° 12.6' E	SO (• • • - - -).	100		318 A2A.	Transmits 00-05 and 10-15 minutes past each hour.
1010.5	Ambon	3° 47.2' S 128° 05.5' E	AM (• - - -).	100		310 A2A.	
1010.6	Merauke	8° 30.7' S 140° 22.8' E	ME (- - •).	100		296 A2A.	

(1) No.	(2) Name	(3) Position	(4) Characteristic	(5) Range	(6) Sequence	(7) Frequency	(8) Remarks
MALAYSIA (SABAH)							
1020	Bintulu	3° 11.0' N 113° 02.0' E	BU (- • • • • • -).	45		304 NON, A2A.	AERO.
1030	Anduki/Seria	4° 38.0' N 114° 22.0' E	AKI (• - - - - • •).	192		250 NON, A2A.	AERO.
1040	Brunei	5° 01.0' N 114° 58.0' E	BN (- • • • • - •).	60		298 NON, A2A.	AERO.
1055	Kata Kinabalu	5° 54.0' N 116° 02.0' E	JSL (• - - - - • • • • • •).	92		400 NON, A2A.	
VIETNAM							
1070	Ba Lat	20° 18.0' N 106° 34.0' E	AG (• - - - •).	100		475	Transmits continuously during periods of low visibility. During periods of clear weather, transmits at 10, 16, 40, and 46 minutes past each hour.
1080	Hon Dau	20° 40.0' N 106° 48.7' E	NP (- • • - - •).	100		435	Transmits continuously during periods of low visibility. During periods of clear weather, transmits at 08, 14, 38, and 44 minutes past each hour.
1090	Long Chau/Grande Island Light Station	20° 37.3' N 107° 09.2' E	TC (- - • - •).	100		415	Transmits continuously during periods of low visibility. During periods of clear weather, transmits at 06, 12, 36, and 42 minutes past each hour.
PHILIPPINES							
1100	Mactan	10° 19.3' N 123° 58.8' E	MCT (- - - • - • -).	155		331 A2A.	AERO.
1110	South Nido Oilfield	11° 03.0' N 118° 49.3' E	PCS (• - - • - • - • • •).	100		379	
CHINA							
1140	Hok Tsui	22° 12.6' N 114° 15.3' E	HKG (• • • • • - - - - •).	500		338 NON, A2A, A3E.	AERO.
1160	Tathong Point	22° 14.5' N 114° 17.1' E	TP (- • - - •).	50		280 NON, A2A.	AERO.
PESCADORES ISLANDS							
1170	P'eng-hu Tao	23° 31.5' N 119° 36.0' E	BM (- • • • • - -).	315		290 NON, A2A.	AERO.
OKINAWA GUNTO							
1180	Okinawa Jima	26° 05.8' N 127° 40.0' E	OK (- - - - - • -).	170		308 A2A.	AERO.
1190	Okinawa Jima, Machinato	26° 20.3' N 127° 44.9' E	KX (- • - - - • • -).	100		295	AERO. Transmits between 0900-1700.

(1) No.	(2) Name	(3) Position	(4) Characteristic	(5) Range	(6) Sequence	(7) Frequency	(8) Remarks
OKINAWA GUNTO							
1200	Okierabu Shima	27° 26.0' N 128° 43.0' E	ON (- - - - - •).	170		398 A2A.	AERO.
TAIWAN							
1210	Fu-Kwei Chiao	25° 18.0' N 121° 32.0' E	B (- • • • •). period 360s tr(4) 9s si 2s (—) 25s si 2s tr(4) 9s si 73s repeats(2) 240s	100	I, III, V	302 NON, A2A.	Transmits continuously during periods of low visibility. During periods of clear weather, transmits at 00, 02, 04, 30, 32, and 34 minutes past each hour.
1212	Chi-Lung	25° 09.5' N 121° 44.4' E	C (- • - • •). period 360s tr(4) 10.6s si 1s (—) 25s si 1s tr(4) 10.6s si 71.8s repeats(2) 240s	100	II, IV, VI	302 NON, A2A.	Transmits continuously during periods of low visibility. During periods of clear weather, transmits at 01, 03, 05, 31, 33, and 35 minutes past each hour.
1220	Ch'i-lai Pi Light Station	24° 01.0' N 121° 38.0' E	D (- • • •).	100	I, III, V	287 A2A.	Transmits continuously during periods of low visibility. During periods of clear weather, transmits at 06, 08, 10, 36, 38, and 40 minutes past each hour.
1225	Huo-shao Tao Light Station	22° 40.4' N 121° 27.9' E	G (- - - •).	100	II, IV, VI	287 A2A	Transmits continuously during periods of low visibility. During periods of clear weather, transmits at 07, 09, 11, 37, 39 and 41 minutes past each hour.
1228	Lan Yu	22° 04.8' N 121° 29.9' E	H (• • • • •).	100		320 A2A	Transmits continuously during periods of low visibility. During periods of clear weather, transmits at 01, 04, 07, 31, 34 and 37 minutes past each hour.
1230	Heng-ch'un	21° 56.1' N 120° 50.1' E	KW (- • - - • - -).	240		415 NON, A2A.	AERO.
1240	Kao-hsiung-Shan Light Station	22° 37.0' N 120° 15.4' E	A (• -).	100		320 A2A.	Transmits continuously during periods of low visibility. During periods of clear weather, transmits at 00, 03, 06, 30, 33 and 36 minutes past each hour.
CHINA							
1250	Naozhou Dao	20° 54.2' N 110° 36.2' E	NZ (- • - - - • •).	200	I	315 A2A.	Transmits at 00, 06, 12, 18, 24, 30, 36, 42, 48 and 54 minutes past each hour.
1252	Baohu Jiao	20° 00.3' N 110° 55.8' E	BH (- • • • • • • • • •).	200	III	315 A2A.	Transmits at 02, 08, 14, 20, 26, 32, 38, 44, 50 and 56 minutes past each hour.
1256	Jianggang	32° 45.7' N 120° 46.2' E	JG (• - - - - - - •).	200	I	311 A2A	Transmits at 00, 06, 12, 18, 24, 30, 36, 42, 48 and 54 minutes past each hour.
1258	Sheyanghe	33° 48.1' N 120° 20.6' E	SY (• • • • - - - - -).	200	III	291 A2A	Transmits at 04, 10, 16, 22, 28, 34, 40, 46, 52 and 58 minutes past each hour.
1260	Yanweigang	34° 28.8' N 119° 47.0' E	YW (- • - - - • - - -).	200	II	311 A2A.	Transmits at 02, 08, 14, 20, 26, 32, 38, 44, 50 and 56 minutes past each hour.

(1) No.	(2) Name	(3) Position	(4) Characteristic	(5) Range	(6) Sequence	(7) Frequency	(8) Remarks
CHINA							
1262	Haozhigang	32° 01.2' N 121° 43.2' E	HZ (•••• - -••).	200	III	311 A2A.	Transmits at 04, 10, 16, 22, 28, 34, 40, 46, 52 and 58 minutes past each hour.
1270	Moye Dao	36° 53.9' N 122° 30.9' E	MY (- - -• - -).	200	I	291 A2A.	Transmits at 00, 06, 12, 18, 24, 30, 36, 42, 48 and 54 minutes past each hour.
1272	Qingdao	36° 04.3' N 120° 26.3' E	MD (- - -••).	200	II	291 A2A.	Transmits at 02, 08, 14, 20, 26, 32, 38, 44, 50 and 56 minutes past each hour.
1280	Chengshan Jiao	37° 23.7' N 122° 42.2' E	CS (-•••••••).	200		319 A2A.	Transmits at 02, 08, 14, 20, 26, 32, 38, 44, 50 and 56 minutes past each hour.
1290	Beitang	39° 06.5' N 117° 43.2' E	BT (-•••• -).	200	I	295 A2A.	Transmits at 00, 06, 12, 18, 24, 30, 36, 42, 48 and 54 minutes past each hour.
1292	Qinhuangdao	39° 54.8' N 119° 37.0' E	QH (- - -• -••••).	200	II	295 A2A.	Transmits at 02, 08, 14, 20, 26, 32, 38, 44, 50 and 56 minutes past each hour.
1302	Dasanshan Dao	38° 51.9' N 121° 49.5' E	DS (-•••••••).	200	II	307 A2A.	Transmits at 02, 08, 14, 20, 26, 32, 38, 44, 50 and 56 minutes past each hour.
1304	Laotieshan	38° 43.8' N 121° 08.0' E	LT (• -••• -).	200	III	307 A2A.	Transmits at 04, 10, 16, 22, 28, 34, 40, 46, 52 and 58 minutes past each hour.
KOREA							
1305	Ihwari	39° 46.7' N 124° 33.5' E	LH (• -•••••••).		I	282 A2A.	
1306	Onjongni	38° 54.1' N 125° 13.9' E	KS (-•••••••).		III	282 A2A.	
1307	Monggum Po	38° 07.6' N 124° 44.0' E	ML (- - -••••).		V	282 A2A.	
1340	Cheju	33° 30.9' N 126° 32.4' E	CD (-•••• -•••).	100		375 A2A.	Aeromarine.
1360	Yeong Do Light Station	35° 03.0' N 129° 05.7' E	CY (-•••• - - - -).	60		300 A2A.	Transmits continuously during periods of low visibility. During periods of clear weather, transmits 00-05, 10-15, 20-25, 30-35, 40-45 and 50-55 minutes past each hour, sunrise to sunset.
1370	Suyong Man/Busan	35° 10.4' N 129° 07.8' E	PN (• - -•• -•).	100		385 A2A.	Aeromarine.
1385	Kangnung.	37° 45.1' N 128° 56.8' E	LC (• -•••• - - -•).	100		257 A2A	AERO.
1395	Sukcho	38° 08.2' N 128° 35.9' E	SK (•••• - -••).	100		378 A2A.	AERO.
JAPAN							
1402	Toi Misaki	31° 22.4' N 131° 20.1' E	TI (-•••), period 30s tr(2), (-)(2)	90		309	Azimuth coverage 036° -216°.
1440	Hachijo Jima	33° 04.8' N 139° 51.1' E	CJ (-•••••• - - - -), period 30s tr(2), (-)(2) repeats(1)	90		302	Azimuth coverage 000° -205°.

(1) No.	(2) Name	(3) Position	(4) Characteristic	(5) Range	(6) Sequence	(7) Frequency	(8) Remarks
JAPAN							
1512	Shiriya Saki	41° 25.7' N 141° 27.8' E	YA (- • - - • -). period 30s tr(2), (-)(2) repeats(1)	90		302 D7W.	Azimuth coverage 270° -170°.
1534	Kushiro Saki	42° 58.1' N 144° 22.5' E	UR (• • - • - •). period 30s tr(2), (-)(2) repeats(1)	90		288 D7W.	Azimuth coverage 120° -300°. Transmits every 2 minutes between 00 minutes and 58 minutes past each hour.
1550	Abashiri	43° 59.9' N 144° 17.4' E	AS (• - • • •). period 30s tr(2), (-)(2)	90		309 D7W.	Azimuth coverage 320° -120°.
1554	Soya Misaki	45° 31.2' N 141° 56.2' E	OY (- - - - • - - -). period 30s tr(2), (-)(2)	90		295 D7W.	Azimuth coverage 258° -102°.
1572	Matsumae (Fukuyama) Light Station	41° 25.3' N 140° 05.2' E	FK (• • • • - • - •). period 30s tr(2), (-)(2) repeats(1)	90		309 D7W.	Azimuth coverage 110° -280°. Transmits every 2 minutes between 00 minutes and 58 minutes past each hour.
1590	Hekura Jima	37° 51.1' N 136° 55.2' E	HA (• • • • • • -). period 30s tr(2), (-)(2)	100		295 H2A.	Transmits every 2 minutes.
1612	Wakamiya Shima	33° 52.1' N 129° 41.2' E	NU (- • • • -). period 30s tr(2), (-)(2) repeats(1)	90		295	
1616	Ose Saki	32° 37.0' N 128° 36.3' E	OU (- - - • • -). period 30s	90		302	
1635	Iwo Jima	24° 47.0' N 141° 18.0' E	OX (- - - - • • • -). period 30s		250	360 A2A.	AERO.
1640	Miyako Sima	24° 47.1' N 125° 17.7' E	MY (- - • - - -). period 30s	180		340 A2A.	AERO.
RUSSIA							
1650	Mys Gamova Light Station	42° 33.4' N 131° 13.2' E	GM (- - • - -). period 360s tr (interrupted by a long dash) 55s si 305s	150	I	306.5 A2A.	
1651	Mys Bryusa Light Station	42° 52.8' N 131° 28.1' E	BU (- • • • • • -). period 30s	15		300.5	
1651.5	Ostrov Skrypleva Light Station	43° 01.7' N 131° 57.1' E	SW (• • • • - • - -). period 360s tr(5) 19s (-) 25s tr(2) 7s si 309s	50		291.5 A2A.	
1652	Ostrov Askol'd Light Station	42° 43.9' N 132° 20.7' E	AD (• - - • • •). period 360s tr (interrupted by a long dash) 60s si 300s	150	II	306.5 A2A.	

(1) No.	(2) Name	(3) Position	(4) Characteristic	(5) Range	(6) Sequence	(7) Frequency	(8) Remarks
RUSSIA							
1654	Mys Povorotnyy Light Station	42° 40.4' N 133° 02.5' E	PO (• - - • - - -). period 360s tr (interrupted by a long dash) 60s si 300s	150	III	306.5 A2A.	
1656	Mys Ostrovnoy Light Station	42° 48.5' N 133° 43.3' E	OR (- - - • - •). period 360s tr (interrupted by a long dash) 60s si 300s	150	IV	306.5 A2A.	
1658	Mys Nizmennyy Light Station	43° 31.2' N 135° 09.3' E	NZ (- • - - • •). period 360s tr (interrupted by a long dash) 60s si 300s	150	V	306.5 A2A.	
1660	Mys Yegorova Light Station	44° 46.4' N 136° 27.0' E	EO (• - - -).	150	VI	306.5 A2A.	
1670	Nakhodka-Zaliv Amerika Front Light Station	42° 49.9' N 132° 55.8' E	NH (- • • • • •). period 360s tr 51s si 309s	50		291.5 A2A.	
1680	Nepristupyy	42° 47.8' N 133° 00.1' E	NU (- • • • •). period 110s tr 10s (—) 100s	30		315.5, 375 A1A, A2A.	Deviation radiobeacon for calibration use within the harbor. Transmits upon request, in clear weather only.
1690	Mys Balyuzek Light Station	43° 55.0' N 135° 31.0' E	BL (- • • • • • - • • • •).	100	V	297.5 A2A.	Transmits at 04, 10, 16, 22, 28, 34, 40, 46, 52 and 58 minutes past each hour.
1692	Rudnyy	44° 20.7' N 135° 50.8' E	RD (• - • - • •).	100	VI	297.5 A2A.	Transmits at 05, 11, 17, 23, 29, 35, 41, 47, 53 and 59 minutes past each hour.
1700	Mys Belkina (Byelkin) Light Station	45° 49.5' N 137° 41.5' E	BN (- • • • • - •). period 360s tr (interrupted by a long dash) 60s si 300s	150	I	303.5 A2A.	
1702	Mys Zolotoy Light Station	47° 19.1' N 138° 59.5' E	ZO (- - • • - - -). period 360s tr (interrupted by a long dash) 60s si 300s	150	II	303.5 A2A.	
1704	Port Kholm'sk Light Station	47° 01.5' N 142° 01.5' E	HK (• • • • • - • -). period 360s tr (4) 20s (—) 25s tr (2) 10s si 305s	80	III	303.5 A2A.	
1706	Ostrov Moneron Light Station	46° 15.5' N 141° 15.8' E	MR (- - • - •). period 360s tr(4) 20s (—) 25s tr(2) 10s si 305s	150	IV	303.5 A2A.	
1708	Mys Kril'on Light Station	45° 54.0' N 142° 04.8' E	KX (- • - - - • • -). period 360s tr (4) 20s (—) 25s tr (2) 10s si 305s	100	V	303.5 A2A.	

(1) No.	(2) Name	(3) Position	(4) Characteristic	(5) Range	(6) Sequence	(7) Frequency	(8) Remarks
RUSSIA							
1710	Mys Aniva	46° 01.5' N 143° 24.8' E	AW (• - • - -). period 360s tr (5) 20s (—) 25s tr (2) 10s si 305s	25		306.5 A1A.	
1720	Ostrov Kamen Opasnosti	45° 47.7' N 142° 13.4' E	K (- • -). period 180s tr 6s (—) 19.5s si 4.5s repeats(1) 30s si 120s	15		315.5 A1A.	
1730	Mys Tomari Aniva (Korsakov)	46° 36.5' N 142° 47.7' E	KW (- • - • - -). period 360s tr(2) 12s (—) 18s repeats(1) 30s si 300s	80		312.5 A2A.	Transmits at night or continuously during periods of low visibility at 05, 11, 17, 23, 29, 35, 41, 47, 53 and 59 minutes past each hour.
1740	Mys Susnova Light Station	46° 31.5' N 138° 19.0' E	KM (- • - - -). period 360s tr(6) 22s (—) 25s tr(2) 8s si 305s	50		318.5 A1A.	
1750	Mys Yelizavety Light Station	54° 25.5' N 142° 43.0' E	EZ (• - - • •).	150	I	294.5 A2A.	Navigation season only.
1752	Pil'tun Light Station	52° 51.0' N 143° 18.5' E	PN (• - - • - •).	150	II	294.5 A2A.	
1754	Chayvo	52° 21.0' N 143° 12.0' E	ChW (- - - • • - -).	80	III	294.5 A2A.	
1756	Zaliv Mardvinova	46° 49.4' N 143° 13.1' E	MN (- - - •).	100	IV	294.5 A2A.	Navigation season only.
1757	Mys Terpeniya Light Station	48° 38.6' N 144° 44.8' E	TR (- • - •).	150	V	294.5 A2A.	Navigation season only.
1758	Poronaysk Light Station	49° 13.6' N 143° 07.7' E	AS (• - • • •).	100	VI	294.5 A2A.	
1760	Mys Krasnyy Partizan Light Station	48° 58.5' N 140° 24.8' E	KP (• - • • - - •). period 360s tr(4) 20s (—) 25s tr(2) 10s si 305s	80		312.5 A2A.	Does not transmit during periods of clear weather during daylight hours.
1780	Ulegorsk Light Station	49° 04.6' N 142° 01.8' E	UG (• • - - - •). period 180s tr(5) 19s (—) 25s repeats(2) 7s si 128s	80		297.5 A1A.	
1790	Mys Zhonkiyer Light Station	50° 53.9' N 142° 07.0' E	VR (• • • - • - •).	100	I	309.5 A2A.	Navigation season only.
1792	Mys Lamanon Light Station	48° 47.1' N 141° 51.2' E	LM (• - • • - -).	100	II	309.5 A2A.	
1796	Mys Datta Light Station	49° 18.8' N 140° 26.8' E	LD (• - • • - • •).	100	IV	309.5 A2A.	
1798	Mys Peschanyy Light Station	48° 26.7' N 140° 10.5' E	PA (• - - • • -).	100	V	309.5 A2A.	
1800	Mys Kloster-Kamp Light Station (Orlova)	51° 25.5' N 140° 53.2' E	OW (- - - • - -).	100	VI	309.5 A2A.	Navigation season only.

(1) No.	(2) Name	(3) Position	(4) Characteristic	(5) Range	(6) Sequence	(7) Frequency	(8) Remarks
RUSSIA							
1810	Moskal'vo	53° 36.3' N 142° 30.2' E	MO (-- ---). period 360s tr (interrupted by a long dash) 60s si 300s	80	I	318.5 A2A.	Navigation season only.
1812	Menshikova	53° 17.7' N 141° 24.6' E	ME (-- •). period 360s tr (4) 20s (—) 25s tr (2) 10s si 305s	100	II	318.5 A2A.	
1814	Mys Litke	53° 56.0' N 140° 21.0' E	LT (• - • • -). period 360s tr (interrupted by a long dash) 60s si 300s	150	III	318.5 A1A.	
1815	Mys Lazareva Light Station	52° 12.0' N 141° 30.7' E	AZ (• - - - • •)	80	VI	318.5 A2A	Seasonal.
1820	Nyyvo	51° 57.0' N 143° 08.0' E	NW (- • • - -).	50		306.5 NON, A2A.	
1830	Yeyrineyskaya	59° 15.0' N 145° 49.6' E	RA (• - • • -).	25		291.5 A1A.	
1840	Mys Alevina	58° 50.0' N 151° 21.0' E	AL (• - • - • • •). period 360s tr (interrupted by a long dash) 60s si 300s	150	I	303.5 A2A.	
1842	Mys Chirikova	59° 29.0' N 150° 32.0' E	ChI (- - - • • •). period 360s tr (interrupted by a long dash) 60s si 300s	80	III	303.5 A2A.	Transmits at night or continuously during periods of low visibility.
1844	Ostrov Spafar'yeva	59° 09.8' N 149° 05.7' E	SF (• • • • • - • •). period 360s tr (interrupted by a long dash) 60s si 300s	150	IV	303.5 A2A.	
1846	Mys Elagin (Duga)	59° 09.0' N 146° 03.0' E	DG (- • • - - •). period 360s tr (interrupted by a long dash) 60s si 300s	150	V	303.5 A2A.	
1848	Mys Marekan (Okhotsk)	59° 19.2' N 143° 28.7' E	MK (- - - • -). period 360s tr (interrupted by a long dash) 60s si 300s	175 80	VI	303.5 A2A.	
1860	Oklyabr'skiy	52° 33.8' N 156° 18.5' E	BO (- • • • - - -). period 360s tr (interrupted by a long dash) 60s si 300s	150	I	297.5 A2A.	
1862	Mys Lopatka Light Station	50° 53.5' N 156° 40.5' E	LK (• - • • • - -). period 360s tr (interrupted by a long dash) 60s si 300s	80	II	297.5 A2A.	

(1) No.	(2) Name	(3) Position	(4) Characteristic	(5) Range	(6) Sequence	(7) Frequency	(8) Remarks
RUSSIA							
1864	Mys Kurbatova Light Station, Kuril Islands	50° 51.9' N 156° 28.7' E	RB (• - • - • • •). period 360s tr (interrupted by a long dash) 60s si 300s	150	III	297.5 A2A.	
1866	Mys Vasil'yeva Light Station, Kuril Islands	50° 00.2' N 155° 23.5' E	MW (- - • - -). period 360s tr (interrupted by a long dash) 60s si 300s	150	IV	297.5 A2A.	
1868	Krutogorovaya	55° 05.0' N 155° 37.0' E	KG (- • - - - •). period 360s tr (interrupted by a long dash) 60s si 300s	150	V	297.5 A2A.	
1870	Ozernovskiy Light Station	51° 29.0' N 156° 29.0' E	OA (- - - • -). period 360s tr (interrupted by a long dash) 55s si 305s	150	VI	297.5 A2A.	
1875	Mys Veslovskiy Light Station	43° 39.4' N 145° 32.7' E	WO (• - - - -). period 180s tr(5) 19s (—) 25s tr(2) 7s si 129s	25		306.5 A1A.	
1880	Ostrov Shpanberga (Shikotan To) Light Station	43° 50.0' N 146° 55.0' E	PG (• - - • - - •).	100	I	312.5 A2A.	
1882	Mys Lovtsova (Atoiya Misaki) Light Station	44° 27.0' N 146° 34.5' E	OC (- - - - • • •). period 360s tr 60s si 300s	150	II	312.5 A2A.	
1884	Mys Van-der-Lind (Nobonotsu Misaki) Light Station	45° 35.0' N 149° 24.0' E	WL (• - - • - • •). period 360s tr 60s si 300s	150	III	312.5 A2A.	
1886	Mys Kastrikum Light Station	46° 13.7' N 150° 34.0' E	KU (- • - • • -). period 360s tr 60s si 300s	150	IV	312.5 A2A.	
1888	Ostrov Toporkov Light Station	48° 04.4' N 153° 17.5' E	TK (- - • -). period 360s tr(5) 20s (—) 25s tr(2) 8s si 307s	50		324.5 A1A.	
1890	Ostrov Zelenyy (Shibotsu Jima) Light Station	43° 31.8' N 146° 12.6' E	ZN (- - • • - •).	50		309.5 A1A.	
1900	Yakujono Bana	43° 52.4' N 146° 49.0' E	MU (- - • • -).	50		303.5 A1A.	
1905	Kamo Shima	43° 43.9' N 146° 43.1' E	DW (- • • • - -).	50		303.5 A1A.	
1907	Taraku To	43° 37.0' N 146° 21.6' E	PS (• - - • • • •).	50		318.5 A1A.	
1910	Mys Yuzhno Kuril'skiy	44° 01.2' N 145° 51.6' E	YuK (• • - - - • -).	30		324.5 NON, A1A.	
1920	O Misaki Ostrov Iturup	45° 26.0' N 147° 55.4' E	BS (- • • • • • •).	50		312.5 A2A.	

(1) No.	(2) Name	(3) Position	(4) Characteristic	(5) Range	(6) Sequence	(7) Frequency	(8) Remarks
RUSSIA							
1930	Mys Chibuynny (Imai Saki) Light Station	50° 46.0' N 156° 12.0' E	ChN (- - - • - •).	150		306.5 A2A.	Transmits at 04, 10, 16, 22, 28, 34, 40, 46, 52 and 58 minutes past each hour.
1950	Kruglyy	52° 04.0' N 158° 20.0' E	RL (• - • • - • •). period 360s tr (interrupted by a long dash) 60s si 300s	150		291.5 A2A.	
1951	Russkiy Light Station	52° 26.1' N 158° 30.5' E	UR (• • - • - •). period 180s tr(5) 19s (—) 25s tr(2) 7s si 129s	30		303.5 A1A.	
1951.5	Vilyuchinskiy	52° 36.7' N 158° 27.2' E	WUT (• - - • - - -). period 180s tr(5) 19s (—) 25s tr(2) 7s si 129s	30		309.5 A1A.	
1952	Mys Ozernoy	57° 43.5' N 163° 18.9' E	ZR (- - • • • - •). period 360s tr (interrupted by a long dash) 60s si 300s	50		291.5 A1A.	
1954	Mys Shipunskiy	53° 06.0' N 160° 01.5' E	ChP (- - - - • - - •).	100	III	291.5 A2A.	
1958	Mys Afrika	56° 10.5' N 163° 18.1' E	AF (• - • • - • •). period 360s tr (interrupted by a long dash) 60s si 300s	150 75	V	291.5 A2A.	
1960	Mys Mayachnyy Light Station	52° 53.4' N 158° 42.4' E	MYa (- - • - • - •). period 360s tr (interrupted by a long dash) 60s si 300s	150	II	291.5 A2A.	
1980	Ust Kamchatsk	56° 13.0' N 162° 31.0' E	RD (• - • - • •).	50		315.5 A1A.	
1990	Karaginski	58° 33.0' N 163° 33.0' E	KJ (- • - • • - - -). period 360s tr(4) 20s (—) 25s tr(2) 10s si 305s	150	I	294.5 A2A.	
1995	Smirnova	59° 54.3' N 166° 23.9' E	SN (• • • - • •). period 360s tr(5) 20s (—) 25s tr(2) 10s si 305s	50		309.5 A1A.	
2000	Yuzhnaya Glubokaya	60° 11.0' N 166° 53.0' E	YuG (• • - - - - •).	50		315.5 A1A.	Navigation season only.
2010	Lavrova	60° 19.0' N 167° 05.0' E	LR (• - • • • - • •).	50		300.5 A1A.	

(1) No.	(2) Name	(3) Position	(4) Characteristic	(5) Range	(6) Sequence	(7) Frequency	(8) Remarks
RUSSIA							
2015	Bubnova	60° 01.7' N 170° 26.2' E	BO (- • • • - - -). period 360s tr 20s (—) 25s tr 10s si 305s	50		300.5	A1A.
2080	Russkaya Koshka	64° 34.5' N 178° 32.9' E	RK (• - • - • -). period 360s tr 60s si 300s	150	V	315.5	A2A.
2090	Navarin	62° 22.3' N 179° 09.5' E	NR (- • • - •). period 360s tr 55s si 305s	50		312.5	A1A

Section 23

Differential GPS Stations

(1) No.	(2) Name	(3) Position	(4) Station ID	(5) Range	(6) Frequency	(7) Transfer Rate	(8) Remarks
KOREA							
6	Chojin Dan Lt	38° 33.1' N 128° 23.9' E	T 670 R 740 R 741	100	292	200	Message Types: 3, 5, 7, 9, 16.
7	Chumunjin Dan	37° 53.9' N 128° 50.0' E	T 663 R 726 R 727	100	295	200	Message Types: 3, 5, 7, 9, 16.
8	Eocheong Do Lt	36° 07.3' N 125° 58.0' E	T 664 R 728 R 729	100	295	200	Message Types: 3, 5, 7, 9, 16.
9	Ullung Do Lt	37° 31.1' N 130° 47.9' E	T 667 R 734 R 735	100	319	200	Message Types: 3, 5, 7, 9, 16.
10	Changgigot Lt	36° 04.7' N 129° 34.2' E	T 666 R 732 R 733	100	310	200	Message Types: 3, 5, 7, 9, 16.
10.5	Mara Do Lt	33° 07.0' N 126° 16.2' E	T 665 R 730 R 731	100	290	200	Message Types: 3, 5, 7, 9, 16.
11.5	Geomun Do Lt	34° 00.5' N 127° 19.3' E	T 662 R 724 R 725	100	287	200	Message Types: 3, 5, 7, 9, 16.
12.5	P'almi Do Lt	37° 21.3' N 126° 30.8' E	T 661 R 722 R 723	100	313	200	Message Types: 3, 5, 7, 9, 16.
13	Soch'ong Do Lt	37° 45.5' N 124° 43.8' E	T 668 R 736 R 737	100	323	200	Message Types: 3, 5, 7, 9, 16.
14	Sohuksando Lt	34° 05.5' N 125° 06.0' E	T 669 R 738 R 739	100	298	200	Message Types: 3, 5, 7, 9, 16.
15	Yong Do Lt	35° 03.6' N 129° 04.4' E	T 660 R 720 R 721	100	300	200	Message Types: 3, 5, 7, 9, 16.
CHINA							
20	Kau Yi Chau	22° 17.0' N 114° 04.6' E		270	289	200	Message Types: 1, 2, 3, 5, 6, 16.
JAPAN							
315	Kushiro Saki	42° 58.1' N 144° 22.5' E	T 630	108	288		
320	Abashiri	43° 59.9' N 144° 17.4' E	T 631	108	309		
328	Soya Misaki	45° 31.2' N 141° 56.2' E	T 632	108	295		
344	Matsumae	41° 25.3' N 140° 05.2' E	T 634	108	309		
355	Tango	35° 44.3' N 135° 05.2' E	T 636	108	316		

(1) No.	(2) Name	(3) Position	(4) Station ID	(5) Range	(6) Frequency	(7) Transfer Rate	(8) Remarks
JAPAN							
362	Hekura Jima	37° 51.1' N 136° 55.2' E	T 637	108	295		
368	Sakata	38° 56.8' N 139° 49.4' E	T 638	108	288		
374	Siriya Saki	41° 25.7' N 141° 27.8' E	T 639	108	302		
380	Kinkasan	38° 16.6' N 141° 35.0' E	T 640 R 680 R 681	108	316	200	Message Types: 1, 3, 5, 6, 7, 9, 16.
392	Urayasu	35° 37.0' N 139° 53.8' E	T 642	108	321		
402	Hachijo Jima	33° 04.8' N 139° 51.1' E	T 644 R 688 R 689	108	302	200	Message Types: 1, 3, 5, 6, 7, 9, 16.
411	Nagoya	35° 02.1' N 136° 50.8' E	T 645	108	320		
423	Muroto Saki	33° 15.1' N 134° 10.6' E	T 647 R 694 R 695	108	295	200	Message Types: 1, 3, 5, 6, 7, 9, 16.
455	Wakamiya	33° 52.1' N 129° 41.2' E	T 651 R 702 R 703	108	295	200	Message Types: 1, 3, 5, 6, 7, 9, 16.
474	Toi Misaki	31° 22.4' N 131° 20.1' E	T 653 R 706 R 707	108	309	200	Message Types: 1, 3, 5, 6, 7, 9, 16.
485	Nakano Shima	29° 49.3' N 129° 54.9' E	T 654	108	320.5		
490	Gesasi	26° 36.3' N 128° 09.1' E	T 655	108	288		
495	Miyako Shima	24° 43.8' N 125° 26.2' E	T 656	108	316		
PERSIAN GULF							
1650	Ra's Al Khaymah	25° 59.0' N 56° 04.0' E	T 142 R 480 R 481	250	292	200	Message Types: 3, 6, 7, 9, 16.
1680	Abu Dhabi	24° 06.0' N 52° 56.0' E	T 143 R 486 R 487	250	314	200	Message Types: 3, 6, 7, 9, 16.
1700	Bahrain	26° 07.0' N 50° 39.0' E	T 140 R 480 R 481	250	298	200	Message Types: 3, 6, 7, 9, 16.
1720	Kuwait	29° 07.0' N 48° 08.0' E	T 141 R 482 R 483	250	295	200	Message Types: 3, 6, 7, 9, 16.
RED SEA							
1830	Ras Gharib	28° 21.1' N 33° 06.6' E	T 323 R 446 R 447	150	298		
1840	Ras Umm Said	27° 50.9' N 34° 18.8' E	T 322 R 444 R 445	126	293.5		

(1) No.	(2) Name	(3) Position	(4) Station ID	(5) Range	(6) Frequency	(7) Transfer Rate	(8) Remarks
RED SEA							
1850	El Quseir	26° 08.3' N 34° 15.6' E	T 325 R 450 R 451	260	314.5		
1870	Jeddah	21° 28.4' N 39° 08.9' E	T 961	250	320	200	Message Types: 3, 5, 6, 7, 9, 16.
1880	Gizan	16° 53.1' N 42° 32.1' E	T 962	250	324	200	Message Types: 3, 5, 6, 7, 9, 16.

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Aberdeen	19427	Akitahara Ko	9080	Amura	11316
Abington	30608	Akitu Ko	8832	Amurang	25140
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D6386	32148	D6477.4	32005	D6582	31712	D670231424
D6386.1	32150	D6477.5	32006	D6586	31708	D670431416
D6390	32144	D6478	32000	D6590	31704	D670631404
D6400	32108	D6480	31968	D6591	31692	D6706.131408
D6403	32124	D6481	31972	D6591.2	31696	D671831384
D6403.1	32128	D6482	31964	D6591.4	31700	D672131388
D6404	32116	D6483	31944	D6592	31688	D672231392

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
D6726		31376	D6863		32840	D6954		32448	D7069		32720
D6726.1		31380	D6864		32820	D6956		32440	D7069.1		32724
D6732		31368	D6865		32800	D6958		32452	D7070		32728
D6732.1		31372	D6866		32792	D6960		32456	D7073		32884
D6738		31356	D6867		32804	D6972		32460	D7077		32896
D6740		31344	D6867.1		32808	D6973		32464	D7078		32908
D6742		31340	D6867.32		32810.5	D6973.1		32468	D7080		32900
D6746		31276	D6867.5		32811.1	D6976		32476	D7080.1		32904
D6748		31284	D6868		32796	D6978		32480	D7081.9		32912
D6748.1		31288	D6870		32812	D6980		32487	D7082.3		32920
D6751		31280	D6871		32816	D6980.1		32487.1	D7082.31		32924
D6754		31296	D6873		32780	D6982		32492	D7083		32928
D6754.1		31300	D6874		32784	D6988		32496	D7083.1		32932
D6756		31308	D6875		32785	D6992		32516	D7083.4		32936
D6757		31332	D6877		32788	D6994		32500	D7083.41		32940
D6757.1		31336	D6881.6		32892	D6994.1		32504	D7083.46		32916
D6758		31304	D6882.1		32732	D6995		32508	D7083.61		32948
D6759		31328	D6883		32736	D6995.1		32512	D7083.7		32956
D6759.55		31316	D6891		32777	D6998		32520	D7083.75		32952
D6759.56		31316.1	D6892		32777.2	D6998.1		32524	D7083.9		32964
D6760		31312	D6892.1		32777.21	D7000		32528	D7083.91		32968
D6761.4		31324	D6892.5		32777.4	D7000.1		32532	D7084		32972
D6763		31320	D6892.6		32777.1	D7004		32536	D7086		32976
D6769		31272	D6893		32777.6	D7004.1		32540	D7088		32980
D6770		31268	D6893.6		32777.62	D7006		32544	D7088.1		32984
D6772		31208	D6894		32777.5	D7014		32548	D7089		32988
D6772.1		31212	D6894.6		32766	D7018		32552	D7089.05		32978
D6774		31216	D6894.61		32766.1	D7019		32556	D7089.4		32992
D6774.1		31220	D6896		32760	D7019.1		32560	D7089.41		32996
D6775		31224	D6897		32764	D7020		32564	D7090		33000
D6784		31228	D6898		32776	D7020.1		32568	D7091		33004
D6784.1		31232	D6900		32768	D7021		32572	D7091.2		33008
D6794		31240	D6900.1		32772	D7022		32576	D7091.4		33012
D6794.1		31244	D6902		32752	D7024		32580	D7091.41		33016
D6796		31236	D6904		32744	D7024.1		32584	D7092		33020
D6812		31256	D6904.1		32748	D7025		32588	D7096		32852
D6812.1		31260	D6914		32328	D7025.1		32592	D7097		32872
D6812.5		31264	D6918		32356	D7026.5		32598	D7101		32861
D6813		31252	D6919		32360	D7027		32600	D7101.1		32861.5
D6818		31204	D6920		32332	D7028		32604	D7102		32848
D6820		31200	D6922		32336	D7028.1		32608	D7104		32880
D6824		31192	D6924		32340	D7029		32612	D7114		33028
D6825		31196	D6925		32344	D7030		32616	D7114.1		33032
D6828		31188	D6926		32348	D7032		32620	D7119.5		33072
D6832		31176	D6926.1		32352	D7033		32624	D7119.51		33076
D6832.1		31180	D6930		32364	D7033.7		32628	D7206		31152
D6842		31160	D6936		32368	D7034		32640	D7210		31144
D6842.9		31161	D6936.1		32372	D7035		32660	D7210.1		31148
D6843		31161.5	D6938		32376	D7035.1		32664	D7212		31136
D6843.1		31162	D6939		32380	D7036		32652	D7212.1		31140
D6844		31163	D6942		32384	D7037		32644	D7218		31096
D6844.1		31163.1	D6943		32388	D7038		32666	D7220		31100
D6845		31164	D6943.1		32392	D7038.1		32666.1	D7220.1		31104
D6845.1		31164.1	D6944		32400	D7041		32648	D7221		31108
D6846		31165	D6944.1		32404	D7042		32668	D7221.1		31112
D6846.2		31165.2	D6945		32396	D7043		32656	D7222		31132
D6846.4		31165.4	D6946		32408	D7048		32672	D7223		31128
D6846.6		31165.6	D6947		32420	D7050		32676	D7224		31116
D6847		31166	D6948		32424	D7052		32680	D7224.1		31120
D6847.1		31166.1	D6948.1		32428	D7056		32684	D7226		31124
D6848		31172	D6948.3		32412	D7058		32688	D7230		31092
D6860		32844	D6948.5		32416	D7062		32692	D7236		31088
D6861		32832	D6949.5		32432	D7065		32708	D7238		31084
D6862		32824	D6950		32436	D7065.1		32712	D7239		31080
D6862.4		32828	D6952		32444	D7068		32716	D7242		31076

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
D7246	.....	31072	D7315.92	.....	28617.7	D7330	.....	28566	D7356.6	.....	30082.5
D7256	.....	31068	D7315.96	.....	28617.9	D7331	.....	28564	D7356.7	.....	30082
D7258	.....	31064	D7316	.....	30903	D7332	.....	28560	D7356.8	.....	30081.5
D7260	.....	31056	D7316.2	.....	30903.2	D7332.3	.....	28558	D7357	.....	30084
D7260.1	.....	31060	D7317	.....	30903.4	D7332.36	.....	28559	D7357.2	.....	30081
D7263	.....	31044	D7317.2	.....	30903.6	D7332.367	.....	28559.1	D7357.3	.....	30080
D7264	.....	31040	D7318	.....	30902	D7332.45	.....	28566.2	D7357.4	.....	30076
D7266	.....	31048	D7318.1	.....	28618	D7332.46	.....	28566.3	D7357.75	.....	30074
D7266.1	.....	31052	D7318.13	.....	28618.2	D7333	.....	28556	D7358	.....	30072
D7272	.....	30952	D7318.14	.....	28618.4	D7334	.....	28556.2	D7358.21	.....	30071.7
D7273	.....	30964	D7318.171	.....	28616	D7334.4	.....	28556.4	D7360	.....	30064
D7274	.....	30956	D7318.2	.....	28612	D7334.5	.....	28556.6	D7360.2	.....	30068
D7274.1	.....	30960	D7318.22	.....	28612.2	D7334.8	.....	28690	D7360.22	.....	30070
D7275	.....	30968	D7318.24	.....	28612.4	D7334.85	.....	28690.1	D7360.4	.....	30052
D7275.5	.....	30970	D7318.32	.....	28611	D7335	.....	28552	D7360.5	.....	30056
D7276	.....	30972	D7318.4	.....	28610	D7335.5	.....	28685	D7360.6	.....	30071
D7280	.....	30988	D7318.5	.....	28610.2	D7336	.....	30160	D7360.65	.....	30071.1
D7280.1	.....	30992	D7319	.....	28609	D7336.2	.....	30161	D7360.8	.....	30060
D7283	.....	31036	D7319.2	.....	28609.2	D7337.5	.....	28669	D7361	.....	30062
D7283.5	.....	30986	D7320	.....	28608	D7338	.....	28676	D7363	.....	30020
D7283.52	.....	30986.1	D7320.2	.....	28608.2	D7338.2	.....	28680	D7363.08	.....	30021
D7284	.....	31008	D7321.6	.....	28605	D7339	.....	28684	D7363.2	.....	30024
D7285	.....	31004	D7321.62	.....	28605.1	D7340	.....	28688	D7363.3	.....	30028
D7286	.....	30996	D7321.7	.....	28605.2	D7340.2	.....	28686	D7363.5	.....	30032
D7286.1	.....	31000	D7321.72	.....	28605.3	D7340.4	.....	28687	D7363.6	.....	30036
D7287	.....	31028	D7321.74	.....	28605.5	D7340.5	.....	28687.2	D7363.7	.....	30037
D7288	.....	31032	D7321.76	.....	28605.7	D7341	.....	28692	D7363.75	.....	30038
D7289	.....	31012	D7322	.....	28600	D7342	.....	28700	D7364	.....	30040
D7289.2	.....	31016	D7322.25	.....	28604.4	D7344	.....	28696	D7364.2	.....	30044
D7292	.....	31020	D7322.5	.....	28598	D7345	.....	30152	D7365.2	.....	30013
D7292.1	.....	31024	D7322.55	.....	28597.82	D7345.05	.....	30157	D7365.3	.....	30013.5
D7294	.....	30980	D7322.71	.....	28597.8	D7345.2	.....	30156	D7366	.....	29872
D7294.1	.....	30984	D7322.76	.....	28597.81	D7345.5	.....	30153	D7366.2	.....	29880
D7301	.....	30948	D7322.8	.....	28597	D7346	.....	28704	D7366.3	.....	29876
D7302	.....	30950	D7322.85	.....	28597.5	D7346.2	.....	28708	D7366.4	.....	29881
D7302.1	.....	30951	D7323	.....	28596	D7348	.....	28715	D7366.6	.....	29868
D7302.3	.....	30949	D7324	.....	28592	D7349	.....	28716	D7367	.....	29836
D7303	.....	30949.1	D7324.4	.....	28590	D7350	.....	28720	D7368	.....	29952
D7303.2	.....	30949.2	D7324.5	.....	28590.2	D7351	.....	30140	D7368.2	.....	29953
D7304	.....	30936	D7324.835	.....	28591	D7351.4	.....	30141	D7368.4	.....	29953.1
D7308	.....	30940	D7325.2	.....	28590.4	D7351.5	.....	30141.2	D7369	.....	29956
D7309	.....	30944	D7325.26	.....	28589.9	D7351.6	.....	30141.4	D7370	.....	29964
D7310	.....	30945	D7325.74	.....	28589.8	D7351.8	.....	30141.6	D7370.4	.....	29968
D7311	.....	30928	D7325.8	.....	28589.5	D7351.85	.....	30141.8	D7371.4	.....	29994
D7311.2	.....	30932	D7325.9	.....	28589	D7353	.....	30088	D7371.6	.....	30004
D7311.23	.....	30923	D7326	.....	28588.6	D7353.2	.....	30092	D7372	.....	30006
D7312	.....	30920	D7326.25	.....	28588.1	D7353.5	.....	30094	D7372.2	.....	30006.4
D7312.2	.....	30921	D7326.28	.....	28588.8	D7353.6	.....	30094.5	D7372.4	.....	30006.8
D7313	.....	30904	D7326.282	.....	28588.81	D7354	.....	30132	D7375.6	.....	29843
D7313.2	.....	30908	D7326.283	.....	28588.82	D7354.2	.....	30132.5	D7375.7	.....	29848.2
D7314	.....	30909	D7326.33	.....	28588.4	D7354.4	.....	30133	D7375.8	.....	29848.4
D7314.08	.....	30910	D7326.34	.....	28588.2	D7354.5	.....	30133.5	D7376.2	.....	29849.2
D7314.2	.....	30911	D7326.5	.....	28587	D7354.7	.....	30134	D7376.3	.....	29849.4
D7314.3	.....	30913.6	D7326.6	.....	28587.5	D7354.8	.....	30134.5	D7376.6	.....	29850
D7314.45	.....	30911.5	D7327	.....	28586	D7354.9	.....	30137	D7378	.....	29816
D7314.5	.....	30910.5	D7328	.....	28584	D7354.92	.....	30138	D7378.2	.....	29820
D7314.55	.....	30913.9	D7328.1	.....	28584.1	D7355.2	.....	30120	D7382	.....	29912
D7314.6	.....	30913.7	D7329.1	.....	28570	D7355.3	.....	30121	D7383	.....	29800
D7314.7	.....	30913.8	D7329.3	.....	28580	D7355.32	.....	30121.5	D7384	.....	29804
D7315	.....	30914	D7329.4	.....	28576	D7355.4	.....	30124	D7384.05	.....	29806
D7315.4	.....	28613	D7329.5	.....	28574	D7355.6	.....	30100	D7384.1	.....	29806.1
D7315.8	.....	28617	D7329.6	.....	28567	D7355.7	.....	30108	D7384.3	.....	29805
D7315.81	.....	28617.1	D7329.65	.....	28567.2	D7355.77	.....	30115	D7384.4	.....	29805.1
D7315.85	.....	28617.3	D7329.7	.....	28567.4	D7355.8	.....	30110	D7384.5	.....	29805.2
D7315.9	.....	28617.5	D7329.8	.....	28565.5	D7356.512	.....	30117	D7384.65	.....	29814

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
D7384.9		29918	D7407		29768	D7438.4		29424	D7577.3		29301.1
D7385		29932	D7407.6		29769	D7438.6		29428	D7577.4		29301
D7385.2		29934	D7407.7		29769.5	D7438.8		29432	D7578		29300
D7385.4		29944	D7409		29732	D7439		29440	D7578.2		29296
D7385.6		29945	D7409.2		29736	D7439.4		29444	D7578.4		29296.1
D7387		29946	D7409.5		29737	D7439.5		29448	D7579		29292
D7387.2		29946.1	D7410		29776	D7439.6		29452	D7580		29246
D7387.3		29947	D7411.2		29772	D7439.8		29460	D7580.1		29246.5
D7387.4		29947.1	D7413		29644	D7441		29476	D7580.3		29248.1
D7387.7		29930	D7414.7		29648	D7441.1		29480	D7580.4		29248
D7387.8		29930.2	D7415		29649	D7441.4		29468	D7582		29252.1
D7389.2		29893	D7415.2		29650	D7441.5		29472	D7582.2		29252.2
D7389.4		29893.5	D7415.21		29650.5	D7441.6		29464	D7582.4		29252
D7390.8		29899	D7417		29656	D7442.5		29484	D7582.5		29252.3
D7390.9		29900	D7417.2		29660	D7442.51		29488	D7582.6		29249.1
D7390.95		29904	D7417.3		29664	D7443.1		29416	D7582.7		29249
D7391.6		29905	D7417.4		29668	D7445		29400	D7582.8		29249.2
D7393		29812	D7417.5		29672	D7446		29396	D7585		29271
D7393.881		29796	D7417.6		29676	D7447		29376	D7585.1		29271.1
D7393.882		29796.1	D7417.7		29680	D7449		29388	D7585.15		29271.2
D7393.883		29796.15	D7417.8		29684	D7450		29384	D7585.6		29264
D7393.884		29796.2	D7417.9		29688	D7450.4		29392	D7586		29265
D7393.885		29796.05	D7418		29692	D7452		29369	D7586.2		29266
D7393.886		29796.25	D7418.2		29696	D7452.1		29370	D7586.7		29268
D7393.887		29796.3	D7418.3		29700	D7454		29368	D7587		29269
D7393.891		29796.17	D7419.2		29703.5	D7455		29364	D7587.2		29269.1
D7393.892		29796.03	D7420		29511	D7456		29372	D7587.62		29270
D7393.893		29796.4	D7421		29500	D7456.2		29372.1	D7587.63		29270.1
D7393.894		29796.45	D7424		29532	D7457		29348	D7587.8		29273
D7393.895		29796.46	D7425		29504	D7457.3		29347	D7588		29184
D7393.898		29796.47	D7427		29534	D7457.6		29346	D7589		29278
D7393.9		29796.5	D7428		29536	D7462		29352	D7589.4		29280
D7393.9001		29796.51	D7428.1		29540	D7500		29336	D7589.52		29184.3
D7393.9005		29796.48	D7428.4		29572	D7505		29340	D7589.6		29284
D7393.91		29796.8	D7428.45		29573	D7505.1		29344	D7589.7		29276.6
D7393.911		29796.81	D7428.6		29535	D7505.4		29344.5	D7589.8		29276.8
D7393.92		29796.7	D7428.8		29544	D7567		28958	D7590		29185
D7393.93		29796.71	D7428.81		29548	D7568		29324	D7590.2		29185.1
D7393.95		29796.6	D7429		29576	D7568.2		29328	D7590.4		29185.3
D7393.97		29796.65	D7429.2		29568	D7568.4		29330	D7590.5		29185.4
D7393.975		29796.35	D7429.3		29564	D7569		29316	D7591		29186
D7394.5		29794	D7429.5		29560	D7569.2		29320	D7591.2		29186.1
D7395		29792	D7429.6		29556	D7570		29232	D7592		29220
D7398		29636	D7429.8		29552	D7571		29236	D7593		29220.2
D7398.4		29640	D7431		29580	D7572		29240	D7593.2		29220.4
D7399		29704	D7432		29584	D7573		29176	D7593.4		29221
D7399.3		29738.5	D7432.1		29588	D7573.2		29180	D7593.6		29221.4
D7399.5		29642	D7432.4		29592	D7575		29312	D7593.7		29221.6
D7400		29738	D7432.8		29596	D7575.4		29310	D7593.8		29222
D7400.9		29707	D7433		29600	D7575.5		29313	D7593.9		29222.2
D7400.95		29709	D7433.2		29604	D7575.6		29304	D7594		29216
D7401		29724	D7433.4		29608	D7575.65		29312.6	D7594.4		29212
D7401.1		29728	D7433.5		29612	D7575.655		29303.2	D7595		29188
D7402		29712	D7434.25		29616.4	D7575.66		29303.3	D7595.5		29192
D7402.4		29716	D7434.3		29616.6	D7575.665		29303.4	D7596		29196
D7402.5		29720	D7434.4		29616	D7575.67		29303.5	D7596.1		29200
D7404		29740	D7434.6		29533	D7575.675		29303.6	D7598.7		29202
D7404.1		29744	D7434.61		29533.1	D7575.68		29303.7	D7599		29209
D7404.3		29746	D7434.7		29410	D7575.7		29312.1	D7601		29210
D7404.5		29748	D7435		29402	D7575.75		29312.2	D7602.9		29211
D7404.51		29752	D7436		29404	D7575.8		29312.3	D7603		29224
D7404.8		29754	D7436.1		29408	D7575.85		29312.4	D7603.3		29226
D7405		29756	D7437		29418	D7575.9		29312.5	D7603.5		29285
D7405.1		29760	D7437.5		29419	D7576		29308	D7603.6		29285.2
D7406		29764	D7438		29420	D7577.2		29301.5	D7603.8		29276

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
D7604		29228	D7676		28892	D7713		28540	E6022.5		30256
D7604.4		29143	D7677		28888	D7714		28540.5	E6023		30260
D7604.5		29143.1	D7678		28883.5	D7720.2		28533	E6023.2		30261
D7604.6		29143.2	D7678.2		28883.6	D7723		28534	E6023.21		30261.1
D7604.7		29143.3	D7679		28883.1	D7725		28526	E6023.23		30260.3
D7604.8		29143.4	D7679.2		28883.2	D7730		28524	E6023.231		30260.4
D7605		29144	D7679.3		28883	D7731		28520	E6023.35		30261.3
D7605.3		29146.2	D7679.5		28882	D7734		28516	E6023.37		30260.1
D7605.4		29146.1	D7680		28880	D7734.1		28517	E6023.38		30260.2
D7607.8		29288	D7680.3		28881	D7734.2		28517.5	E6023.6		30264
D7612		28976	D7680.5		28879	D7734.3		28518	E6024.4		30276
D7613		28972	D7681		28878	D7734.35		28518.1	E6025		30280
D7614		29032	D7681.5		28813	D7736		28512	E6025.2		30284
D7614.1		29036	D7682		28872	D7740		28508	E6025.21		30288
D7615		29012	D7683		28876	D7742		28504	E6025.4		30292
D7616		28996	D7685		28816	D7745		28500	E6025.41		30296
D7616.1		29000	D7685.4		28820	D7750		28472	E6025.6		30300
D7617		29048	D7685.6		28856	D7751		28476	E6025.61		30304
D7617.1		29052	D7685.61		28860	D7751.1		28480	E6025.8		30316
D7618		29016	D7685.8		28824	D7752		28488	E6025.81		30320
D7619		29020	D7686		28832	D7753		28496	E6026		30308
D7620		29044	D7686.1		28836	D7754		28497	E6026.1		30312
D7621		28992	D7686.3		28840	D7756		28492	E6026.3		30324
D7622		29024	D7686.31		28844	D7760		28424	E6026.31		30328
D7622.1		29028	D7686.5		28848	D7760.09		28427	E6027		30332
D7623		29004	D7686.51		28852	D7761		28428	E6028		30364
D7623.1		29008	D7688		28864	D7761.5		28436	E6028.4		30372
D7624		29056	D7689		28812	D7763.1		28441	E6028.41		30376
D7624.1		29060	D7690		28804	D7763.11		28441.1	E6028.7		30368
D7625		29064	D7690.1		28803	D7763.5		28442	E6030		30340
D7626		29068	D7690.2		28803.1	D7763.51		28442.1	E6031		30348
D7626.1		29072	D7691		28808	D7763.9		28445	E6032		30384
D7627		29076	D7692		28792	D7763.91		28446	E6033		30388
D7627.1		29080	D7692.2		28800.5	D7767		28456	E6034		30396
D7629		29092	D7692.3		28801	D7800		28422	E6034.5		30398
D7629.1		29096	D7692.4		28796	D7850		28421	E6035		30400
D7630		29084	D7692.5		28800	D9192		30158	E6036		30404
D7630.1		29088	D7695		28768	D9206.9		29822	E6036.2		30405
D7632.9		29100	D7696		28772	E5996		30204	E6036.21		30406
D7633		29104	D7697		28776	E5996.1		30208	E6036.4		30405.5
D7633.1		29108	D7697.2		28784	E5997		30216	E6036.5		30404.5
D7635		29112	D7697.4		28788	E5997.2		30212	E6037		30408
D7635.2		29116	D7698		28764	E5998		30196	E6037.2		30406.2
D7635.6		29120	D7699		28756	E6000		30200	E6037.25		30407
D7635.8		29124	D7699.2		28760	E6004		30217	E6037.26		30407.2
D7637		29128	D7700		28732	E6008		30224	E6037.3		30406.4
D7639		29140	D7703		28724	E6010		30228	E6037.5		30409
D7640		29132	D7704		28740	E6012		30220	E6037.6		30409.5
D7640.1		29136	D7706		28744	E6014.1		30724	E6037.7		30410
D7648		28956	D7707		28647	E6015		30229	E6037.8		30410.2
D7649		28957	D7707.1		28647.1	E6016		30232	E6037.9		30410.4
D7661		28954.1	D7707.5		28647.5	E6017		30230	E6037.91		30410.6
D7661.1		28954	D7708		28648	E6018		30238	E6037.92		30410.5
D7662		28952	D7708.2		28652	E6019		30240	E6037.93		30410.55
D7663		28948	D7708.4		28656	E6019.3		30242.5	E6038		30411
D7664.4		28916	D7708.5		28660	E6019.5		30242	E6038.1		30411.5
D7665.2		28924	D7709		28624	E6019.7		30242.2	E6039		30412
D7665.3		28928	D7709.2		28628	E6019.8		30242.4	E6039.3		30413
D7666		28940	D7709.4		28632	E6020		30236	E6039.5		30414
D7666.2		28944	D7709.41		28636	E6021		30244	E6039.9		30415.5
D7668.4		28930	D7709.6		28644	E6021.2		30248	E6039.91		30415
D7670.5		28902	D7709.7		28640	E6021.5		30252	E6040		30416
D7671		28904	D7710		28620	E6021.6		30253	E6040.3		30422
D7671.1		28908	D7711		28548	E6021.61		30253.1	E6040.5		30420
D7674		28900	D7712		28544	E6021.8		30254	E6040.7		30424

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
E6040.72		30424.2	E6049.46		30510	E6055.95		30597	E6138.2		30748
E6040.74		30424.4	E6049.48		30511	E6056		30598	E6138.4		30752
E6040.76		30424.6	E6049.49		30511.05	E6056.05		30599	E6138.5		30790
E6040.8		30425	E6049.6		30511.1	E6056.2		30602	E6138.6		30788
E6040.9		30426	E6049.61		30511.2	E6056.25		30603	E6138.7		30756
E6041		30428	E6049.7		30511.22	E6056.36		30600	E6138.71		30760
E6041.4		30432	E6049.75		30511.23	E6056.37		30601	E6138.8		30768
E6042		30436	E6049.8		30511.24	E6056.45		30603.5	E6138.9		30772
E6042.2		30437	E6049.85		30511.25	E6056.5		30603.6	E6139		30776
E6042.21		30438	E6049.9		30511.3	E6057		30548	E6139.2		30780
E6042.3		30439	E6049.91		30511.4	E6058		30608	E6139.5		30784
E6043		30440	E6050		30511.5	E6058.5		30612	E6141		30829
E6043.4		30441	E6050.1		30480	E6059		30620	E6142		30892
E6043.5		30444	E6050.2		30511.51	E6059.2		30616	E6142.9		30842
E6044		30452	E6050.35		30511.52	E6059.4		30636	E6143		30828.5
E6044.3		30454	E6050.4		30511.53	E6060		30632	E6144		30800
E6044.35		30455	E6050.45		30511.55	E6061		30648	E6144.2		30796
E6044.65		30449	E6050.5		30511.54	E6061.1		30652	E6144.4		30828
E6044.7		30458	E6050.6		30511.61	E6062		30644	E6144.6		30816
E6044.75		30460	E6050.7		30511.71	E6063.2		30628	E6144.8		30808
E6044.751		30460.1	E6050.75		30511.72	E6064		30640	E6145		30820
E6044.78		30462	E6050.8		30511.81	E6065		30664	E6145.2		30812
E6044.785		30462.1	E6050.83		30511.82	E6067		30656	E6145.3		30824
E6044.79		30462.2	E6050.86		30511.83	E6067.1		30660	E6145.4		30804
E6044.795		30462.3	E6050.89		30511.84	E6068		30662	E6148.6		30876
E6044.8		30463	E6050.92		30511.85	E6068.2		30662.5	E6149		30844
E6044.82		30463.1	E6050.95		30511.86	E6076		30668	E6149.1		30848
E6045		30469	E6051.4		30511.91	E6076.2		30672	E6149.2		30852
E6045.5		30469.5	E6051.45		30511.92	E6076.4		30676	E6150		30900
E6046		30469.6	E6051.47		30511.93	E6076.6		30680	E6152		30896
E6046.1		30469.7	E6051.5		30511.94	E6076.8		30683	E8075		30258
E6046.5		30470	E6051.7		30525	E6077		30682	E8110		30263
E6047		30476	E6051.9		30526	E6077.05		30683.1	E8120		30262
E6047.2		30470.5	E6052		30528	E6077.1		30682.05	E8157		30261.5
E6047.4		30472	E6052.2		30534	E6077.15		30682.07	E8165		30268
E6047.5		30471.5	E6052.25		30535	E6077.2		30682.1	E8215		30336
E6047.55		30471.4	E6052.254		30535.1	E6077.4		30683.2	E8259		30361
E6047.6		30474	E6052.3		30524	E6077.5		30683.3	E8260.3		30356
E6047.63		30474.5	E6052.36		30521	E6077.57		30683.6	E8262		30360
E6047.65		30471	E6052.38		30522	E6077.6		30682.2	E8266		30352
E6047.66		30471.2	E6052.4		30516	E6077.65		30683.7	E8282.5		30344
E6047.665		30475.1	E6052.46		30513	E6077.7		30683.4	E8327		30346
E6047.67		30475	E6052.48		30514	E6077.8		30683.5	E8335.2		30386
E6047.68		30475.2	E6052.5		30512	E6078		30684	E8340		30387
E6047.7		30484	E6053		30536	E6078.5		30685	E8340.5		30387.2
E6048		30492	E6053.2		30540	E6078.7		30683.8	E8362		30387.5
E6048.11		30605.2	E6053.4		30544	E6082		30688	F0355		28420
E6048.12		30605.1	E6053.5		30545	E6088		30692	F0356		28416
E6048.14		30605	E6053.7		30547	E6090		30696	F0357		28411
E6048.15		30605.4	E6054		30604	E6096		30700	F0358		28408
E6048.155		30605.5	E6054.4		30552	E6100		30704	F0360		28404
E6048.2		30606	E6054.5		30554	E6102		30708	F0361.8		28398
E6048.5		30478	E6054.6		30576	E6104		30720	F0361.81		28398.5
E6048.6		30479	E6054.7		30555	E6114		30728	F0362		28396
E6048.7		30493	E6054.8		30556	E6116		30732	F0365		28378
E6048.75		30494	E6054.85		30560	E6120		30736	F0366		28380
E6048.8		30496	E6055.2		30572	E6122		30832	F0367		28392
E6048.85		30497	E6055.3		30580	E6124		30840	F0367.2		28358.8
E6048.9		30498	E6055.35		30584	E6128		30856	F0367.3		28358.81
E6048.95		30499	E6055.4		30588	E6132		30860	F0367.6		28359
E6049		30500	E6055.45		30592	E6134		30864	F0367.61		28359.5
E6049.2		30504	E6055.5		30593	E6134.2		30868	F0367.62		28359.3
E6049.3		30508	E6055.55		30594	E6135		30872	F0367.8		28366
E6049.4		30508.5	E6055.6		30595	E6138		30744	F0368		28368
E6049.42		30509	E6055.9		30596	E6138.1		30743	F0370		28376

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
F0371	.....	28372	F0491.8	.....	28080	F0613.1	.....	27792	F0724	.....	27472
F0378	.....	28356	F0492	.....	28076	F0614	.....	27796	F0726	.....	27484
F0380	.....	28352	F0493	.....	28072	F0622	.....	27760	F0727	.....	27488
F0382.5	.....	28347	F0494	.....	28068	F0622.2	.....	27764	F0730	.....	27200
F0382.51	.....	28347.5	F0496	.....	28064	F0623	.....	27764.4	F0734	.....	27176
F0383	.....	28340	F0498	.....	28056	F0623.1	.....	27764.41	F0735	.....	27192
F0383.5	.....	28344	F0499	.....	28060	F0623.2	.....	27764.5	F0735.1	.....	27196
F0384	.....	28336	F0500	.....	28052	F0623.3	.....	27764.51	F0735.5	.....	27188
F0386	.....	28332	F0501	.....	28048	F0628	.....	27768	F0735.6	.....	27189
F0386.5	.....	28328	F0502	.....	28044	F0634	.....	27756	F0735.7	.....	27189.1
F0388	.....	28312	F0514	.....	27952	F0636	.....	27752	F0736	.....	27180
F0389	.....	28316	F0515	.....	27960	F0636.2	.....	27752.1	F0736.1	.....	27184
F0390	.....	28308	F0516	.....	27956	F0636.5	.....	27752.2	F0738	.....	27172
F0393	.....	28320	F0520	.....	27968	F0636.6	.....	27752.3	F0749	.....	27588
F0396	.....	28300	F0521	.....	27972	F0636.7	.....	27752.4	F0750	.....	27580
F0397	.....	28304	F0523	.....	27976	F0636.8	.....	27752.5	F0752	.....	27572
F0398	.....	28296	F0528	.....	27984	F0636.9	.....	27752.6	F0752.5	.....	27574
F0400	.....	28288	F0528.1	.....	27988	F0637	.....	27748	F0754	.....	27576
F0401	.....	28290	F0532	.....	27992	F0638	.....	27744	F0754.2	.....	27592
F0404	.....	28284	F0534	.....	27996	F0644	.....	27732	F0754.4	.....	27596
F0406	.....	28280	F0546	.....	28004	F0645	.....	27736	F0754.6	.....	27598
F0406.1	.....	28282	F0547	.....	28008	F0648	.....	27724	F0754.7	.....	27600
F0410	.....	28272	F0547.1	.....	28012	F0651	.....	27716	F0755	.....	27616
F0412	.....	28276	F0548	.....	28016	F0652	.....	27712	F0755.2	.....	27620
F0414	.....	28268	F0548.1	.....	28020	F0655	.....	27708	F0755.5	.....	27624
F0414.2	.....	28266	F0549	.....	28024	F0656	.....	27709	F0755.53	.....	27628
F0420	.....	28264	F0550	.....	28028	F0657	.....	27710	F0755.6	.....	27608
F0422	.....	28256	F0550.1	.....	28032	F0658	.....	27704	F0756	.....	27604
F0424	.....	28260	F0551	.....	28040	F0660	.....	27700	F0756.65	.....	27424
F0426	.....	28244	F0555	.....	27964	F0664	.....	27696	F0757	.....	27612
F0429	.....	28240	F0556	.....	27936	F0666	.....	27688	F0758	.....	27468
F0430	.....	28236	F0556.5	.....	27940	F0666.1	.....	27692	F0758.1	.....	27470
F0430.6	.....	28232	F0556.51	.....	27944	F0668	.....	27684	F0762.9	.....	27394
F0432	.....	28208	F0557	.....	27932	F0668.5	.....	27680	F0763	.....	27395
F0432.2	.....	28212	F0557.6	.....	27924	F0669.5	.....	27676	F0763.15	.....	27396
F0432.4	.....	28216	F0558	.....	27928	F0671	.....	27672	F0763.2	.....	27400
F0436	.....	28204	F0559	.....	27916	F0672	.....	27668	F0763.4	.....	27402
F0438	.....	28200	F0562	.....	27908	F0674	.....	27664	F0763.6	.....	27404
F0442	.....	28196	F0563	.....	27912	F0678	.....	27660	F0763.8	.....	27406
F0444	.....	28192	F0564	.....	27904	F0682	.....	27652	F0764	.....	27376
F0446	.....	28188	F0566	.....	27888	F0686	.....	27640	F0764.2	.....	27380
F0448	.....	28180	F0570	.....	27892	F0687	.....	27644	F0764.4	.....	27372
F0449	.....	28184	F0570.1	.....	27896	F0688	.....	27648	F0764.6	.....	27384
F0452	.....	28176	F0574	.....	27900	F0689	.....	27636	F0764.8	.....	27388
F0454	.....	28172	F0576	.....	27884	F0690	.....	27568	F0764.85	.....	27392
F0455	.....	28160	F0577	.....	27880	F0692	.....	27632	F0764.9	.....	27408
F0455.1	.....	28164	F0578	.....	27868	F0693	.....	27564	F0765	.....	27412
F0455.6	.....	28168	F0579	.....	27864	F0694.5	.....	27560	F0765.1	.....	27411
F0456	.....	28156	F0580	.....	27856	F0698	.....	27528	F0765.11	.....	27411.1
F0458	.....	28144	F0583	.....	27850	F0700	.....	27540	F0765.12	.....	27412.1
F0459	.....	28148	F0586	.....	27840	F0700.1	.....	27548	F0765.13	.....	27411.2
F0460	.....	28152	F0587	.....	27844	F0702	.....	27552	F0765.2	.....	27414
F0468	.....	28132	F0588	.....	27836	F0702.1	.....	27556	F0765.4	.....	27415
F0469.5	.....	28130	F0590	.....	27828	F0703	.....	27544	F0765.5	.....	27416
F0470	.....	28128	F0592	.....	27832	F0705	.....	27520	F0765.6	.....	27420
F0472	.....	28124	F0596	.....	27820	F0706	.....	27516	F0765.8	.....	27428
F0476	.....	28120	F0596.1	.....	27824	F0706.1	.....	27518.1	F0766	.....	27432
F0478	.....	28116	F0597	.....	27808	F0706.2	.....	27518.2	F0766.2	.....	27440
F0479	.....	28112	F0598	.....	27804	F0710	.....	27512	F0766.4	.....	27448
F0480	.....	28108	F0600	.....	27800	F0712	.....	27504	F0766.6	.....	27436
F0484	.....	28100	F0606	.....	27772	F0715	.....	27502	F0766.65	.....	27444
F0489	.....	28092	F0607	.....	27776	F0717	.....	27496	F0766.8	.....	27452
F0490	.....	28096	F0610	.....	27780	F0718	.....	27492	F0767	.....	27456
F0491	.....	28088	F0610.1	.....	27784	F0720	.....	27476	F0767.05	.....	27464
F0491.5	.....	28084	F0613	.....	27788	F0722	.....	27480	F0767.2	.....	27460

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
F0767.6		27466	F0936		27072	F1031.45		26862	F1160		.22228
F0780		27332	F0940		27076	F1031.46		26863	F1161		.22224
F0782		27324	F0941		27078	F1032.7		26865	F1162		.22216
F0784		27336	F0942		27080	F1034		26868	F1163		.22220
F0790		27320	F0943		27096	F1034.5		26869	F1164		.22212
F0792		27316	F0944		27084	F1040		26892	F1165		.22208
F0794		27304	F0945.5		27098	F1045		26836	F1166		.22204
F0796		27312	F0947		27071	F1045.5		26840	F1166.8		.22215
F0798		27308	F0950		27068	F1048		26764	F1167		.22214
F0804		27340	F0951		27064	F1049		26792	F1168		.22200
F0806		27328	F0952		27060	F1050		26772	F1170		.22184
F0812		27344	F0952.3		27057	F1050.4		26776	F1174		.22188
F0818		27348	F0952.5		27056	F1050.41		26780	F1174.3		.22189
F0820		27296	F0952.8		27054	F1051		26784	F1174.5		.22189.1
F0820.1		27300	F0952.9		27055	F1051.1		26788	F1174.6		.22189.3
F0824		27292	F0953		27052	F1052		26804	F1174.61		.22189.31
F0826		27288	F0955		27044	F1052.1		26808	F1174.8		.22189.5
F0830		27284	F0957		27040	F1053		26812	F1175		.22190
F0832		27282	F0958		27032	F1053.1		26816	F1175.2		.22190.2
F0834		27280	F0960		27024	F1053.4		26820	F1175.4		.22190.4
F0836		27276	F0962		27028	F1053.41		26824	F1178		.22196
F0840		27272	F0962.4		27027	F1053.8		26826	F1182		.22192
F0842		27268	F0962.5		27026	F1053.81		26826.1	F1182.6		.22191
F0844		27264	F0964		27020	F1054		26760	F1182.601		.22191.5
F0846		27260	F0966		27016	F1056.4		26756	F1182.8		.22181
F0852		27244	F0968		27012	F1057		26752	F1183		.22180
F0853		27248	F0969.2		27010	F1058		26748	F1184		.22176
F0857		27256	F0969.21		27010.5	F1059		26744	F1184.5		.22177
F0858		27254	F0970		26972	F1060.5		26736	F1184.6		.22177.1
F0862		27252	F0971		26976	F1062		26732	F1184.8		.22178
F0864.2		27236	F0973.02		26996	F1063		26728	F1184.9		.22178.1
F0866		27232	F0973.04		27000	F1064		26724	F1185.1		.22179
F0870		27228	F0973.06		27004	F1064.3		26720	F1185.2		.22179.2
F0874		27212	F0973.08		27008	F1064.5		26716	F1185.4		.22179.4
F0875		27208	F0973.12		26988	F1065		26708	F1185.5		.22179.6
F0876		27204	F0973.14		26992	F1066		26712	F1186		.22172
F0877		27216	F0974.4		26980	F1067		26704	F1188		.22168
F0878		27220	F0978		26964	F1068		26688	F1192.4		.22152
F0884		27364	F0980		26960	F1070		26692	F1192.5		.22156
F0886		27368	F0982		26956	F1072		26684	F1193		.22160
F0900		27168	F0985		26951	F1076.5		23437	F1193.8		.22148
F0901		27152	F0988		26948	F1080		26604	F1194		.22144
F0901.1		27156	F1002		26944	F1085		26612	F1200		.26564
F0901.7		27150	F1003		26940	F1088		26620	F1201		.26552
F0901.9		27148	F1004.4		26937	F1093		26624	F1201.1		.26560
F0902		27145	F1005.2		26908	F1093.1		26628	F1202		.26556
F0904		27160	F1005.4		26912	F1094		26632	F1202.2		.26557
F0904.1		27164	F1005.6		26916	F1094.1		26636	F1202.4		.26548
F0906		27167	F1005.605		26918	F1100.9		26640	F1202.57		.26538
F0910		27144	F1005.61		26920	F1101		26644	F1202.58		.26539
F0914		27140	F1005.611		26921	F1101.2		26648	F1202.59		.26539.4
F0914.53		27139.1	F1005.612		26921.5	F1103		26652	F1202.6		.26532
F0914.531		27139	F1005.613		26922	F1103.1		26656	F1202.62		.26528
F0915		27138.1	F1005.614		26922.5	F1106		26660	F1202.64		.26524
F0915.1		27138	F1005.8		26924	F1106.1		26664	F1202.66		.26520
F0916		27136	F1005.81		26928	F1124		26600	F1202.68		.26518
F0918		27134	F1005.9		26932	F1126		26596	F1202.7		.26536
F0919		27132	F1005.92		26936	F1128		26592	F1202.8		.26516
F0919.1		27126	F1005.98		26902	F1131		26588	F1202.9		.26514
F0920		27120	F1006		26900	F1132		26584	F1203		.26512
F0926		27112	F1018		26842	F1136		26580	F1204		.26508
F0927.5		23022	F1022		26847	F1138		26572	F1205		.26492
F0932		27108	F1024		26852	F1144		26576	F1207		.26496
F0934		27104	F1028		26860	F1158		26570	F1208		.26500
F0935		27100	F1029		26861	F1159		22229	F1208.5		.26501

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
F1209.5	.....	26502	F1262.4	.....	23247	F1321.7	.....	22305	F1386	.....	22484
F1210	.....	26504	F1262.5	.....	23269	F1321.8	.....	22313	F1388	.....	22484.5
F1210.5	.....	26513	F1263	.....	23284	F1322	.....	22340	F1390	.....	22486
F1211	.....	26476	F1263.2	.....	23285	F1322.1	.....	22344	F1395	.....	22492
F1212	.....	26480	F1263.3	.....	23276	F1323	.....	22316	F1395.5	.....	22496
F1212.5	.....	26481	F1263.5	.....	23272	F1323.2	.....	22320	F1396	.....	22500
F1212.8	.....	26482	F1264	.....	23288	F1323.4	.....	22324	F1397	.....	22508
F1213	.....	26488	F1264.5	.....	23280	F1323.51	.....	22352	F1398	.....	22578
F1214	.....	26484	F1265	.....	23259	F1324	.....	22356	F1401.05	.....	22511.1
F1216	.....	26542	F1265.5	.....	23290	F1326	.....	22360	F1401.052	.....	22511.2
F1220	.....	26464	F1266.3	.....	23289	F1327	.....	22364	F1401.054	.....	22511.3
F1220.2	.....	26468	F1267	.....	23292	F1327.5	.....	22368	F1401.9	.....	22520
F1220.4	.....	26472	F1267.5	.....	23291	F1327.8	.....	22369	F1402	.....	22512
F1221	.....	26460	F1267.8	.....	23823.8	F1328	.....	22372	F1402.1	.....	22516
F1221.5	.....	26459	F1270	.....	23300	F1329	.....	22374	F1402.5	.....	22523
F1222	.....	26456	F1270.5	.....	23298	F1330	.....	22376	F1402.6	.....	22523.1
F1222.4	.....	26452	F1271	.....	23296	F1330.1	.....	22380	F1402.62	.....	22523.3
F1222.5	.....	26451.4	F1271.5	.....	23295	F1330.5	.....	22384	F1402.64	.....	22523.5
F1222.55	.....	26451.3	F1273	.....	23304	F1330.6	.....	22388	F1403	.....	22524
F1222.58	.....	26451.1	F1273.5	.....	23305	F1330.7	.....	22392	F1403.9	.....	22532
F1222.6	.....	26451	F1274	.....	23316	F1334	.....	22394	F1404	.....	22528
F1222.65	.....	26450	F1274.5	.....	23308	F1337	.....	22395	F1404.1	.....	22536
F1222.8	.....	26451.2	F1275	.....	23312	F1337.5	.....	22395.1	F1406	.....	22542
F1223	.....	26446	F1276	.....	23311	F1352	.....	22400	F1407	.....	22544
F1223.4	.....	26448	F1277	.....	23310.5	F1355	.....	22408	F1408	.....	22548
F1223.6	.....	26440	F1278	.....	23310	F1355.9	.....	22412	F1411	.....	22552
F1223.8	.....	26439	F1278.5	.....	23317	F1356	.....	22416	F1411.9	.....	22564
F1224	.....	26424	F1279	.....	23318	F1356.05	.....	22417	F1412	.....	22568
F1224.1	.....	26437	F1280	.....	23307	F1356.1	.....	22420	F1412.1	.....	22572
F1225	.....	26428	F1281	.....	23306	F1362	.....	22424	F1412.6	.....	22573
F1226	.....	26432	F1284	.....	23320	F1362.1	.....	22428	F1413	.....	22556
F1226.1	.....	26436	F1289	.....	23326	F1362.2	.....	22429.5	F1413.1	.....	22560
F1227.1	.....	26426	F1290	.....	23324	F1362.3	.....	22431	F1413.5	.....	22580
F1234	.....	23202	F1291	.....	23322	F1362.5	.....	22429	F1413.7	.....	22580.7
F1235	.....	23209	F1292	.....	23328	F1364	.....	22432	F1417	.....	22590
F1235.5	.....	23209.2	F1292.2	.....	23328.5	F1367	.....	22430	F1417.2	.....	22602
F1236	.....	23212	F1292.3	.....	23329	F1370	.....	22436	F1417.4	.....	22585
F1236.5	.....	23216	F1292.35	.....	23329.5	F1370.1	.....	22440	F1417.42	.....	22585.1
F1237	.....	23210	F1292.5	.....	23330	F1371	.....	22441	F1417.43	.....	22585.2
F1238	.....	23220	F1292.7	.....	23331	F1371.2	.....	22442	F1417.5	.....	22588
F1241	.....	23224	F1293	.....	22296	F1372	.....	22444	F1417.6	.....	22587
F1242	.....	23224.5	F1294	.....	22284	F1373	.....	22448	F1418	.....	22596
F1242.5	.....	23225	F1295	.....	22238	F1374	.....	22450	F1420	.....	22600
F1244	.....	23228	F1296	.....	22273	F1374.5	.....	22449	F1422	.....	22608
F1245	.....	23271	F1300	.....	22232	F1375	.....	22452	F1426	.....	22610
F1248	.....	23248	F1302	.....	22236	F1375.5	.....	22456	F1428	.....	22612
F1248.2	.....	23256	F1308	.....	22260	F1376	.....	22464	F1429	.....	22616
F1248.4	.....	23252	F1310	.....	22244	F1376.5	.....	22458	F1430	.....	22617
F1249	.....	23258	F1312	.....	22240	F1377	.....	22470	F1438	.....	22696
F1250	.....	23260	F1313	.....	22252	F1378	.....	22460	F1440	.....	22700
F1251	.....	23262	F1313.5	.....	22256	F1378.5	.....	22462	F1440.2	.....	22704
F1252	.....	23261	F1314	.....	22258	F1378.7	.....	22463	F1459.42	.....	24896
F1253	.....	23247.5	F1314.5	.....	22280	F1378.71	.....	22463.5	F1470	.....	22132
F1254	.....	23240	F1315	.....	22268	F1379	.....	22468	F1471	.....	22134
F1254.2	.....	23244	F1316	.....	22276	F1379.2	.....	22471	F1472	.....	22138
F1254.4	.....	23244.2	F1317	.....	22272	F1379.5	.....	22481	F1473	.....	22140
F1254.5	.....	23239	F1319	.....	22286	F1379.51	.....	22481.1	F1474	.....	22120
F1254.6	.....	23238	F1320.2	.....	22292	F1380	.....	22476	F1475	.....	22118
F1255	.....	23232	F1321	.....	22312	F1382	.....	22480	F1476	.....	22124
F1255.2	.....	23236	F1321.1	.....	22314	F1383	.....	22482	F1476.1	.....	22367
F1256	.....	23245.5	F1321.2	.....	22300	F1383.1	.....	22482.1	F1476.3	.....	22130
F1257	.....	23246	F1321.4	.....	22304	F1383.8	.....	22485	F1476.4	.....	22125
F1260	.....	23268.5	F1321.5	.....	22307.5	F1384.2	.....	22487	F1476.5	.....	22126
F1262	.....	23268	F1321.51	.....	22308.5	F1385	.....	22488	F1476.6	.....	22126.5
F1262.3	.....	23267	F1321.6	.....	22309	F1385.5	.....	22489	F1476.7	.....	22127

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
F1477.3	.....	22123	F1559.1	.....	21948	F1622.5	.....	21760	F1685.8	.....	21632
F1477.6	.....	22122	F1560	.....	21916	F1623	.....	21752	F1686	.....	21628
F1477.7	.....	22124.5	F1560.2	.....	21920	F1623.6	.....	21756	F1686.3	.....	21636
F1478	.....	22116	F1560.5	.....	21921	F1625	.....	21748.5	F1686.4	.....	21584
F1479	.....	22112	F1560.6	.....	21922	F1626	.....	21748	F1687	.....	21580
F1480	.....	22108	F1560.7	.....	21923	F1627	.....	21749	F1688	.....	21576
F1482	.....	22104	F1560.9	.....	21964.5	F1627.4	.....	21750	F1690	.....	21552
F1483	.....	22100	F1562	.....	21965	F1627.6	.....	21746	F1690.1	.....	21556
F1486	.....	22088	F1562.1	.....	21965.5	F1627.9	.....	21746.5	F1690.2	.....	21560
F1488	.....	22096	F1562.4	.....	21966	F1628.1	.....	21744.6	F1690.4	.....	21564
F1490	.....	22092	F1562.5	.....	21966.5	F1628.3	.....	21745	F1690.5	.....	21568
F1494	.....	22056	F1563	.....	21967	F1628.35	.....	21745.2	F1690.55	.....	21572
F1512	.....	22048	F1563.5	.....	21967.5	F1628.4	.....	21745.4	F1690.6	.....	21544
F1514	.....	22052	F1565	.....	21900	F1628.45	.....	21745.6	F1690.7	.....	21540
F1519	.....	22032	F1569	.....	21908	F1628.6	.....	21744.4	F1690.72	.....	21545
F1519.5	.....	22034	F1570	.....	21909	F1628.65	.....	21744.3	F1690.725	.....	21545.5
F1522	.....	22036	F1572	.....	21896	F1629	.....	21744	F1690.73	.....	21546
F1523	.....	22040	F1573	.....	21892	F1633	.....	21734	F1691.8	.....	21491
F1523.5	.....	22031	F1573.5	.....	21884	F1634	.....	21736	F1692	.....	21492
F1524	.....	22064	F1574.3	.....	21880	F1636	.....	21740	F1693	.....	21500
F1524.1	.....	22068	F1574.6	.....	21876	F1637	.....	21735	F1693.2	.....	21504
F1525	.....	22072	F1576	.....	21864	F1640	.....	21732	F1693.8	.....	21496
F1525.1	.....	22076	F1576.2	.....	21874	F1641	.....	21731	F1693.9	.....	21495
F1526	.....	22028	F1576.4	.....	21868	F1642	.....	21730	F1693.95	.....	21487
F1526.4	.....	22026.1	F1577	.....	21866	F1644	.....	21728	F1694	.....	21480
F1526.5	.....	22026	F1578	.....	21860	F1646	.....	21724	F1694.2	.....	21484
F1527	.....	22020	F1579	.....	21862	F1646.2	.....	21725	F1694.6	.....	22592
F1527.1	.....	22024	F1580	.....	21861	F1646.5	.....	21726	F1694.7	.....	21476
F1529	.....	22016	F1584	.....	21851	F1648	.....	21718	F1694.8	.....	21472
F1532	.....	22008	F1585	.....	21856	F1650	.....	21716	F1695	.....	21508
F1532.1	.....	22012	F1586	.....	21848	F1652	.....	21708	F1695.3	.....	21528
F1536	.....	22006	F1591	.....	21846	F1652.5	.....	21712	F1695.6	.....	21464
F1536.1	.....	22005.6	F1591.2	.....	21846.2	F1653.5	.....	21703.5	F1696	.....	21400
F1536.3	.....	22005.4	F1592	.....	21836	F1654	.....	21703	F1697	.....	21408
F1536.5	.....	22005.5	F1592.1	.....	21840	F1655	.....	21701	F1697.2	.....	21412
F1536.7	.....	22005.7	F1593	.....	21844	F1657	.....	21699	F1697.3	.....	21416
F1537	.....	22005.2	F1594	.....	21820	F1660	.....	21696	F1697.5	.....	21436
F1537.1	.....	22005.3	F1595	.....	21834	F1668	.....	21692	F1697.7	.....	21424
F1537.3	.....	22005.1	F1596	.....	21825	F1669	.....	21690	F1697.73	.....	21428
F1537.5	.....	22005	F1597	.....	21826	F1669.1	.....	21691	F1697.9	.....	21440
F1538	.....	22000	F1598	.....	21824	F1670	.....	21688	F1697.93	.....	21453
F1538.4	.....	22004	F1604	.....	21828	F1670.1	.....	21689	F1697.94	.....	21452
F1540	.....	21992	F1604.1	.....	21832	F1674	.....	22584	F1697.96	.....	21460
F1540.3	.....	21998	F1606	.....	21816	F1674.05	.....	22581	F1697.965	.....	21460.5
F1540.6	.....	21996	F1607	.....	21812	F1674.1	.....	22584.2	F1697.97	.....	21461
F1540.8	.....	21999	F1608	.....	21808	F1674.2	.....	22584.6	F1697.971	.....	21461.1
F1542.5	.....	21990	F1609	.....	21806	F1674.3	.....	22584.8	F1697.979	.....	21461.9
F1543	.....	21988	F1609.1	.....	21806.1	F1674.4	.....	22584.4	F1697.981	.....	21461.3
F1544	.....	21984	F1612	.....	21800	F1674.5	.....	22586	F1697.982	.....	21461.5
F1546	.....	21980	F1614	.....	21780	F1676	.....	21687	F1697.983	.....	21461.7
F1550	.....	21976	F1614.5	.....	21782	F1676.2	.....	21687.1	F1697.99	.....	21462
F1552	.....	21972	F1616	.....	21784	F1676.5	.....	21686.5	F1698	.....	21336
F1552.5	.....	21970	F1616.5	.....	21795	F1678	.....	21686.1	F1699	.....	21340
F1553.2	.....	21968	F1617	.....	21788	F1679	.....	21682	F1699.5	.....	21342
F1554	.....	21924	F1617.2	.....	21792	F1679.2	.....	21682.1	F1700.1	.....	21596
F1554.9	.....	21928	F1617.4	.....	21794	F1680	.....	21686	F1700.38	.....	21625
F1555	.....	21932	F1619	.....	21776	F1681	.....	21685	F1700.39	.....	21625.1
F1555.1	.....	21936	F1619.4	.....	21774	F1684	.....	21656	F1700.5	.....	21595
F1557	.....	21940	F1619.7	.....	21773.5	F1684.4	.....	21681	F1700.52	.....	21595.1
F1557.3	.....	21952	F1620	.....	21772	F1684.5	.....	21681.1	F1700.6	.....	21590
F1557.4	.....	21956	F1620.3	.....	21773	F1685.03	.....	21664	F1700.65	.....	21590.5
F1557.5	.....	21964	F1620.5	.....	21771	F1685.05	.....	21672	F1700.7	.....	21591
F1558	.....	21960	F1621	.....	21770	F1685.48	.....	21604	F1701.2	.....	21624
F1558.5	.....	21912	F1621.5	.....	21768	F1685.6	.....	21608	F1701.22	.....	21620
F1559	.....	21944	F1622	.....	21764	F1685.65	.....	21660	F1701.6	.....	21601

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
F1701.62	.....	21601.1	F1790	.....	22656	F1892.1	.....	25094.2	F1924.3	.....	24164
F1701.75	.....	21588	F1796	.....	22664	F1894	.....	23872	F1925	.....	24168
F1701.8	.....	21586	F1796.1	.....	22668	F1895.15	.....	23876	F1925.2	.....	24172
F1701.81	.....	21586.1	F1798	.....	22660	F1895.151	.....	23880	F1925.21	.....	24176
F1701.86	.....	21384	F1802	.....	22676	F1896	.....	23888	F1925.25	.....	24176.7
F1702	.....	21388	F1806	.....	22672	F1896.4	.....	23900	F1925.3	.....	24177
F1704	.....	21392	F1807	.....	22680	F1896.85	.....	23906	F1925.31	.....	24178
F1716	.....	21352	F1807.1	.....	22684	F1897	.....	23908	F1925.33	.....	24178.6
F1717	.....	21343	F1807.5	.....	22692	F1898	.....	23916	F1925.35	.....	24178.5
F1718	.....	21344	F1808	.....	22695	F1900	.....	23920	F1925.4	.....	24179
F1718.4	.....	21332	F1809	.....	22694	F1900.1	.....	23924	F1925.45	.....	24179.5
F1718.6	.....	21354	F1812	.....	21176	F1901	.....	23928	F1925.5	.....	24180.5
F1718.7	.....	21298	F1820	.....	21188	F1901.1	.....	23932	F1925.55	.....	24180
F1718.8	.....	21354.5	F1821	.....	21186	F1901.4	.....	23936	F1925.57	.....	24176.3
F1718.81	.....	21354.6	F1822	.....	21180	F1901.6	.....	23940	F1925.58	.....	24176.6
F1719.2	.....	21320	F1828	.....	21097	F1902.2	.....	23944	F1925.8	.....	24184
F1720	.....	21396	F1830	.....	21096.5	F1902.4	.....	23952	F1926	.....	24188
F1720.4	.....	21355.4	F1830.55	.....	21096.8	F1902.8	.....	23964	F1926.1	.....	24192
F1720.6	.....	21355	F1830.6	.....	21097.7	F1903.4	.....	23980	F1927	.....	24196
F1721	.....	21300	F1830.7	.....	21097.65	F1904	.....	23988	F1928	.....	24204
F1725	.....	21296	F1830.8	.....	21097.6	F1904.1	.....	23992	F1928.1	.....	24208
F1726.2	.....	21276	F1831	.....	21097.5	F1904.2	.....	23996	F1929	.....	24212
F1726.4	.....	21280.5	F1831.5	.....	21096.7	F1904.3	.....	24000	F1930	.....	24216
F1732.5	.....	21268	F1832	.....	21096	F1904.34	.....	24004	F1930.3	.....	24220
F1733	.....	21260	F1834	.....	21097.8	F1904.4	.....	24008	F1930.4	.....	24228
F1733.17	.....	21264	F1835	.....	21117	F1904.45	.....	23892	F1930.41	.....	24232
F1733.19	.....	21202	F1836.1	.....	21121	F1904.6	.....	24016	F1931	.....	24234
F1734	.....	21200.7	F1836.5	.....	21112	F1904.7	.....	24028	F1932.9	.....	24238
F1735	.....	21200.3	F1836.6	.....	21114	F1904.75	.....	24024	F1934	.....	24240
F1735.6	.....	21200.4	F1836.7	.....	21108	F1904.8	.....	24036	F1934.5	.....	24241
F1736	.....	21200	F1836.8	.....	21101	F1904.88	.....	24026	F1934.51	.....	24241.5
F1736.5	.....	21201	F1837	.....	21102	F1904.9	.....	24040	F1934.8	.....	24248
F1736.55	.....	21201.5	F1837.6	.....	21104	F1905	.....	24044	F1934.9	.....	24244
F1737	.....	21184	F1837.65	.....	21104.5	F1905.6	.....	24056	F1935	.....	24245
F1737.2	.....	21185	F1837.7	.....	21105	F1905.7	.....	24048	F1935.2	.....	24245.2
F1738	.....	21189	F1837.75	.....	21104.7	F1905.8	.....	24052	F1936	.....	24368
F1739	.....	21204	F1837.8	.....	21106	F1908	.....	24068	F1936.4	.....	24336
F1740	.....	21208	F1838	.....	21100	F1909.1	.....	24078	F1936.42	.....	24340
F1742	.....	21212	F1838.3	.....	21098	F1909.4	.....	24076	F1936.43	.....	24344
F1744	.....	21216	F1838.35	.....	21100.1	F1909.6	.....	24060	F1936.44	.....	24348
F1745	.....	21222	F1844	.....	25108	F1910	.....	24072	F1936.45	.....	24352
F1748	.....	21220	F1845	.....	25107	F1913	.....	24084	F1936.46	.....	24356
F1766	.....	21240	F1847	.....	25104	F1913.9	.....	24093	F1936.47	.....	24362
F1766.1	.....	21244	F1848	.....	25106	F1914	.....	24088	F1936.5	.....	24328
F1770.6	.....	21252	F1850	.....	25100	F1914.2	.....	24090	F1936.51	.....	24332
F1770.62	.....	21256	F1854	.....	25096	F1915	.....	24096	F1936.55	.....	24334
F1771.6	.....	22620.1	F1872	.....	25072	F1915.5	.....	24100	F1936.56	.....	24335
F1772	.....	22620	F1872.1	.....	25076	F1916	.....	24104	F1936.6	.....	24360
F1772.1	.....	22618	F1872.3	.....	25077	F1916.4	.....	24108	F1937	.....	24364
F1772.15	.....	22619	F1872.4	.....	25077.2	F1917	.....	24112	F1937.2	.....	24365
F1772.2	.....	22619.5	F1872.5	.....	25077.4	F1917.4	.....	24116	F1937.25	.....	24366
F1772.3	.....	22620.5	F1872.6	.....	25069	F1918.2	.....	24121	F1937.3	.....	24367
F1772.31	.....	22620.6	F1873.2	.....	25079	F1918.21	.....	24122	F1938	.....	24316
F1772.4	.....	22621	F1879	.....	25081	F1918.4	.....	24120.5	F1939	.....	24256
F1772.41	.....	22621.5	F1880	.....	25080	F1920	.....	24124	F1939.5	.....	24256.2
F1773	.....	22624	F1883	.....	25082	F1920.2	.....	24125	F1940	.....	24257
F1774	.....	22632	F1885	.....	25084	F1922.4	.....	24134	F1940.2	.....	24258
F1775	.....	22636	F1887	.....	25086	F1922.41	.....	24134.1	F1940.21	.....	24259
F1776	.....	22640	F1887.5	.....	25086.2	F1922.5	.....	24135	F1940.3	.....	24260
F1778	.....	22641	F1888	.....	25086.3	F1923.4	.....	24136	F1940.4	.....	24264
F1780	.....	22644	F1888.5	.....	25086.4	F1923.41	.....	24140	F1941	.....	24265
F1780.1	.....	22648	F1889	.....	25086.5	F1923.6	.....	24142	F1941.1	.....	24266
F1786	.....	22652	F1890	.....	25088	F1923.7	.....	24144	F1941.2	.....	24268
F1787	.....	22642	F1891	.....	25092	F1924	.....	24156	F1941.6	.....	24272
F1788	.....	22643	F1892	.....	25094	F1924.1	.....	24160	F1941.8	.....	24276

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
F1942		24280	F1979.3		24585	F2010.2		24771	F2061.1		25129
F1942.4		24284	F1979.7		24587	F2014.3		24772.5	F2062		25132
F1942.7		24288	F1979.8		24589	F2014.5		24773.1	F2062.5		25134
F1942.9		24290	F1981		24593	F2015		24774	F2063		25136
F1943		24292	F1981.8		24595	F2015.5		24773	F2063.3		25137
F1943.2		24294	F1982		24596	F2015.7		24775	F2063.8		25139
F1943.3		24295	F1982.08		24596.2	F2016		24776	F2064		25140
F1943.4		24296	F1982.14		24596.4	F2016.5		24775.1	F2064.4		25142
F1943.5		24298	F1982.2		24597	F2018		24780	F2066		25144
F1945		24315	F1982.4		24600	F2019		24775.5	F2068		25148
F1945.2		24386.2	F1983		24602	F2020		24782	F2070		25152
F1945.85		24278	F1984		24604	F2022		24784	F2070.5		25156.2
F1946		24387	F1985		24606	F2022.3		24787	F2071		25156.5
F1946.3		24387.5	F1985.3		24609	F2022.5		24786	F2072		25156
F1946.5		24388	F1985.5		24610	F2024.2		24779	F2077		25158
F1947		24392	F1985.7		24608.2	F2024.3		24778	F2078		25160
F1948		24440	F1986		24608	F2024.5		24788	F2079		25172
F1948.5		24397	F1986.5		24605	F2024.6		24790	F2079.5		25164
F1949		24396	F1987		24612	F2024.65		24792.5	F2079.6		25168
F1949.8		24432	F1987.5		24616	F2024.7		24792	F2079.7		25169
F1951.3		24424	F1988		24620	F2024.73		24793	F2079.8		25171
F1951.6		24418	F1988.3		24624	F2024.75		24794	F2082		25228
F1951.8		24404	F1988.6		24628	F2024.8		24796	F2083		25232
F1953.2		24442.1	F1989		24632	F2024.81		24794.1	F2083.3		25234
F1953.4		24442.2	F1990		24636	F2024.82		24794.2	F2086		25236
F1954.2		24443	F1990.2		24640	F2025		24796.6	F2086.5		25238
F1954.5		24445	F1990.24		24644	F2025.1		24796.7	F2087		25237
F1955		24446	F1990.3		24648	F2025.4		24797	F2100		25208
F1955.6		24448	F1990.4		24652	F2025.41		24797.1	F2105		25212
F1955.7		24452	F1990.5		24656	F2025.6		24797.4	F2106		25217
F1955.8		24457	F1991		24664	F2025.61		24797.5	F2107		25224
F1956		24464	F1991.2		24660	F2025.7		24797.8	F2107.3		25210
F1956.6		24468	F1991.3		24668	F2025.8		24798	F2107.5		25222.7
F1957		24472	F1991.32		24672	F2025.9		24799	F2107.56		25222.8
F1957.3		24476	F1991.36		24676	F2027		24808	F2107.8		25222.4
F1957.6		24492	F1991.38		24680	F2028		24800	F2108		25223
F1957.7		24496	F1991.6		24684	F2028.1		24804	F2109		25218
F1957.8		24484	F1991.72		24682	F2028.2		24810	F2109.2		25219
F1957.9		24488	F1992		24688	F2028.21		24810.1	F2109.8		25222.65
F1958		24480	F1992.14		24700	F2028.3		24812	F2110		25222
F1958.05		24500	F1992.2		24704	F2028.31		24816	F2110.3		25222.4
F1958.2		24504	F1992.3		24696	F2028.49		24817.2	F2110.5		25220, 25222.3
F1958.9		24508	F1992.7		24708	F2028.5		24817	F2111.3		25222.55
F1959.5		24511	F1993		24712	F2028.9		24817.4	F2111.5		25222.5
F1959.8		24510	F1993.4		24716	F2029.4		24818	F2111.8		25222.6
F1959.82		24513	F1994		24728	F2029.41		24818.1	F2114		25176
F1961		24516	F1995.4		24732	F2029.7		24818.5	F2116		25180
F1961.3		24515	F1997		24736	F2029.8		24818.7	F2119		25186
F1961.5		24520	F1999		24740	F2030		24818.4	F2120		25184
F1962		24524	F1999.5		24692	F2030.2		24818.3	F2120.5		25188
F1964		24532	F1999.6		24744	F2031		24819	F2123		25190
F1968		24536	F1999.65		24746	F2031.1		24819.1	F2124		25192
F1969		24540	F1999.7		24745	F2040		25114	F2126		25196
F1970		24544	F1999.75		24744.5	F2044		25120	F2127		25194
F1971		24546	F1999.8		24747	F2045		25119	F2127.5		25196.5
F1973		24547	F1999.9		24749	F2046		25118	F2128		25197
F1974		24545.5	F2000		24752	F2047		25121	F2130		25204
F1974.3		24545	F2000.5		24753	F2047.5		25122	F2132		25202
F1976.2		24553	F2001		24754	F2048		25116	F2132.5		25198.5
F1977.5		24561	F2002		24756	F2050		25112	F2133		25198
F1978		24568	F2007		24770	F2051		25111.7	F2133.5		25197.8
F1978.6		24564	F2008		24764	F2052		25113	F2134		25199
F1978.8		24570	F2008.1		24768	F2054		25124	F2134.5		25200.5
F1978.9		24584	F2009		24762	F2058		25126	F2134.8		25200.2
F1979		24580	F2010		24772	F2060		25128	F2135		25200

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
F2135.5	.....	25201	F2227.2	.....	15182	F2266	.....	15092	F2335	.....	14724.3
F2136	.....	25197.5	F2228	.....	15184	F2266.5	.....	15093	F2336	.....	14725
F2137	.....	25197.2	F2228.3	.....	15185	F2267	.....	15094	F2336.5	.....	14727
F2138	.....	15156	F2228.5	.....	15185.5	F2267.5	.....	15095	F2336.8	.....	14727.5
F2142	.....	14544	F2228.6	.....	15181.7	F2268	.....	15088	F2337	.....	14728
F2152	.....	14540	F2228.7	.....	15181.5	F2269	.....	15081	F2338	.....	14512
F2156	.....	14536	F2228.9	.....	15181.3	F2270	.....	15082	F2339	.....	14512.1
F2158	.....	14534	F2229	.....	15181	F2270.1	.....	15084	F2340	.....	14528
F2159	.....	14542	F2230	.....	15168	F2274	.....	15080	F2344	.....	14796
F2160	.....	14532	F2231	.....	15172	F2275	.....	15070	F2344.5	.....	14781
F2160.5	.....	14527.5	F2231.2	.....	15176	F2275.5	.....	15069	F2345	.....	14730
F2161	.....	14527	F2231.3	.....	15178	F2276	.....	15068	F2346	.....	14732
F2162	.....	14526	F2231.4	.....	15180	F2278	.....	15066	F2347	.....	14736
F2163	.....	14524	F2232	.....	15160	F2280	.....	15064	F2348	.....	14780
F2164	.....	14520	F2233	.....	15160.1	F2280.4	.....	15060	F2350	.....	14776
F2166	.....	14518	F2234	.....	15164	F2281	.....	15056	F2350.5	.....	14775
F2167	.....	14519	F2234.5	.....	15166	F2281.3	.....	15051	F2352	.....	14764
F2168	.....	14516	F2235	.....	15163	F2281.6	.....	15050	F2354	.....	14744
F2169	.....	14514.7	F2235.3	.....	15161	F2281.8	.....	15051.8	F2356	.....	14740
F2169.25	.....	14516.8	F2235.5	.....	15167	F2282	.....	15052	F2356.4	.....	14748
F2169.5	.....	14517	F2235.7	.....	15167.3	F2284	.....	15048	F2356.6	.....	14750
F2170	.....	14515	F2236	.....	15152	F2286	.....	14508	F2357	.....	14684
F2171	.....	14514	F2237	.....	15150	F2286.5	.....	14506	F2357.4	.....	14676
F2172	.....	14513	F2238	.....	15148	F2287	.....	14504	F2357.6	.....	14680
F2173	.....	14494	F2239	.....	15151	F2287.2	.....	14499	F2357.7	.....	14681
F2174	.....	14496	F2239.3	.....	15147.5	F2287.4	.....	14498.5	F2358.2	.....	14686
F2176	.....	14497	F2239.5	.....	15147	F2287.5	.....	14498	F2358.5	.....	14686.2
F2179.2	.....	14497.2	F2240	.....	15146	F2287.7	.....	14478	F2359	.....	14686.7
F2180	.....	14497.4	F2242	.....	15144	F2287.75	.....	14477	F2359.5	.....	14716
F2189	.....	15246	F2243	.....	15145	F2288	.....	14500	F2359.7	.....	14717
F2190	.....	15248	F2243.5	.....	15142	F2292	.....	14624	F2359.85	.....	14774
F2191	.....	15252	F2244	.....	15140	F2292.5	.....	14598	F2360	.....	14816
F2192	.....	15236	F2245	.....	15138	F2293	.....	14622	F2362	.....	14752
F2192.5	.....	15236.5	F2245.5	.....	15017	F2293.5	.....	14623	F2363	.....	14760
F2194	.....	15244	F2246	.....	15136	F2293.8	.....	14623.5	F2363.4	.....	14756
F2196	.....	15232	F2247	.....	15134	F2293.85	.....	14623.55	F2364	.....	14768
F2200	.....	15240	F2247.2	.....	15134.4	F2294	.....	14648	F2366	.....	14772
F2204	.....	15228	F2247.5	.....	15130	F2296	.....	14652	F2367	.....	14783
F2206	.....	15224	F2247.6	.....	15131	F2296.5	.....	14623.7	F2368	.....	14784
F2207	.....	15215	F2248	.....	15132	F2297	.....	14665	F2368.1	.....	14788
F2207.5	.....	15214.7	F2250	.....	15128	F2298	.....	14660	F2369	.....	14793
F2207.8	.....	15214.8	F2251	.....	15127.8	F2300	.....	14664	F2370	.....	14792
F2208	.....	15214.5	F2252	.....	15126	F2301	.....	14626	F2371	.....	14791
F2209	.....	15214.3	F2252.5	.....	14935.7	F2302	.....	14628	F2374	.....	14884
F2210	.....	15214	F2252.7	.....	14933	F2303	.....	14629	F2374.5	.....	14866
F2214	.....	15216	F2253	.....	14935	F2304	.....	14632	F2375	.....	14880
F2216	.....	15220	F2253.5	.....	14935.5	F2305	.....	14636	F2376	.....	14852
F2218	.....	15200	F2253.8	.....	15125.5	F2306	.....	14640	F2378	.....	14863
F2219	.....	15212	F2253.9	.....	15124.5	F2307	.....	14642	F2378.4	.....	14864.3
F2220	.....	15204	F2254	.....	15124	F2308	.....	14644	F2378.6	.....	14864.4
F2221	.....	15222	F2256	.....	15120	F2310	.....	14656	F2378.7	.....	14864.8
F2222.5	.....	15198	F2258	.....	15116	F2314	.....	14668	F2378.8	.....	14864.9
F2224	.....	15196	F2261.4	.....	15108	F2316	.....	14688	F2380	.....	14868
F2224.2	.....	15197	F2261.5	.....	15110	F2318	.....	14687	F2382	.....	14872
F2224.7	.....	15194	F2261.7	.....	15112	F2319	.....	14694	F2383	.....	14885
F2225	.....	15192	F2261.9	.....	15104.3	F2319.5	.....	14695	F2383.5	.....	14875
F2225.2	.....	15191.7	F2262	.....	15104	F2320	.....	14692	F2384	.....	14876
F2225.3	.....	15191.5	F2263	.....	15106	F2326	.....	14700	F2384.3	.....	14876.5
F2225.5	.....	15190	F2263.5	.....	15105	F2326.2	.....	14696	F2384.4	.....	14877.3
F2226	.....	15188	F2264	.....	15100	F2327	.....	14702	F2384.6	.....	14877
F2226.2	.....	15187	F2264.3	.....	15101	F2328	.....	14708	F2385	.....	14877.8
F2226.5	.....	15186	F2264.5	.....	15099	F2329	.....	14706	F2385.3	.....	14878
F2226.7	.....	15162	F2264.8	.....	15098.5	F2330	.....	14877.7	F2385.7	.....	14877.6
F2226.8	.....	15161.5	F2265	.....	15098	F2332	.....	14720	F2386	.....	14856
F2227	.....	15181.8	F2265.5	.....	15097	F2334	.....	14724	F2387	.....	14860

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
F2387.5		14862	F2454		15020	F2536		14164	F2635.5		14280
F2387.57		14878.6	F2454.7		14932	F2538		14168	F2636		14344
F2387.58		14878.8	F2455		14928	F2540		14176	F2639		14352
F2387.6		14879	F2456		14924	F2544		14172	F2639.1		14356
F2387.7		14861	F2457		14916	F2546		14160	F2640		14340
F2388		14848	F2458		14920	F2547		14150	F2641		14336
F2390		14846	F2462		15024	F2549.3		14475.4	F2642.2		14335.6
F2393		14845	F2464		15028	F2549.5		14472.5	F2642.4		14335
F2398		14845.4	F2465		15022	F2550		14472	F2642.6		14334.8
F2399		14832	F2466		15036	F2551		14470	F2643		14284
F2400		14828	F2468		15034	F2552		14476	F2645		14286
F2401		14826	F2470		15032	F2553		14469	F2645.5		14287
F2402		14824	F2472		15044	F2554		14468	F2645.8		14287.3
F2404		14820	F2473		15037	F2554.5		14467	F2645.9		14286.2
F2405		14819	F2474		14988	F2555		14462	F2647		14288
F2406		14800	F2480		15000	F2556		14466	F2647.2		14288.1
F2408		14804	F2482		14992	F2558		14464	F2648		14292
F2410		14808	F2484		14984	F2560		14452	F2650		14304
F2412		14812	F2488		14148	F2562		14456	F2653		14320
F2412.5		14810	F2492		14152	F2564		14460	F2653.5		14321
F2413		15040	F2494		14156	F2566		14465	F2654		14316
F2415		15039	F2498		14616	F2568		14448	F2660		14308
F2416		14888	F2500		14620	F2569		14450	F2660.2		14312
F2418		14892	F2502		14612	F2570		14488	F2662		14296
F2420		14908	F2503		14602	F2574		14492	F2663		14300
F2421		14907	F2503.2		14602.5	F2574.5		14486	F2669		14324
F2423.1		14896	F2503.5		14603	F2575		14484	F2670		14328
F2423.5		14912	F2503.7		14135.5	F2576		14480	F2670.5		14332
F2425		14932.5	F2503.8		14182	F2580		14184	F2670.8		14334
F2426		14936	F2504		14134	F2584		14188	F2672.8		14360
F2426.1		14937	F2504.2		14133	F2586		14192	F2673		14364
F2426.2		14936.5	F2504.5		14134.5	F2588		14200	F2673.4		14368
F2426.5		15125	F2505		14135	F2590		14204	F2674		14372
F2426.6		14938.6	F2505.3		14135.3	F2594		14208	F2675		14376
F2427		14938	F2505.5		14606	F2596		14210	F2675.3		14372.8
F2427.2		14938.5	F2506		14607	F2598		14212	F2675.4		14372.5
F2427.5		14939	F2508		14604	F2600		14216	F2675.45		14374
F2428		14940	F2510		14600	F2602		14196	F2675.46		14374.1
F2429		14944	F2511		14594	F2603		14218	F2675.5		14374.7
F2430		14948	F2512		14596	F2604		14220	F2675.52		14374.8
F2434		14952	F2512.5		14596.5	F2604.2		14221	F2675.8		14366
F2435		14953	F2513		14597	F2604.6		14222	F2676		14377
F2435.5		14954	F2514		14560	F2604.8		14226	F2677		14381
F2436		14956	F2516		14552	F2604.9		14229	F2680		14380
F2436.5		14958	F2517		14556	F2605		14227	F2681		14382
F2436.7		14958.2	F2519		14550	F2605.1		14227.1	F2682		14384
F2436.8		14969	F2520		14548	F2605.4		14228	F2684		14388
F2437		14964	F2523		14578	F2606.6		14232	F2686		14390
F2438		14960	F2524		14580	F2607		14224	F2686.6		14391
F2440		14976	F2525		14582	F2607.5		14234	F2688		14392
F2442		14968	F2526		14584	F2608		14236	F2689		14397
F2442.2		14971	F2527		14588	F2610		14240	F2690		14396
F2442.5		14970	F2527.6		14592	F2614		14244	F2690.5		14396.2
F2443		14972	F2527.7		14593	F2615		14261	F2691		14398
F2444		14980	F2527.8		14564	F2616		14248	F2692		14399
F2446		14996	F2528		14576	F2618		14252	F2694		14400
F2447		14997	F2528.5		14566	F2620		14256	F2696		14405
F2448		15004	F2529		14568	F2624		14260	F2697		14406
F2448.3		15005.5	F2530		14572	F2626		14262	F2698		14408
F2448.5		15005	F2531		14474	F2630		14268	F2702		14412
F2449		15006	F2532		14473	F2631		14270	F2702.1		14416
F2450		15012	F2533		14475	F2632		14264	F2704		14420
F2452		15008	F2534		14180	F2634		14272	F2705		14424
F2452.5		15014	F2535		14170	F2634.5		14274	F2708		14428
F2453		15016	F2535.5		14169	F2635		14276	F2712		14432

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
F2713	.....	14434	F2802	.....	14124	F2859.1	.....	21034.1	F2914.8	.....	20824
F2714	.....	14436	F2802.1	.....	14128	F2860.2	.....	21034.3	F2915	.....	20820
F2715	.....	14438	F2808	.....	14136	F2860.7	.....	21036	F2915.2	.....	20816
F2716	.....	14440	F2809	.....	14138	F2860.71	.....	21040	F2915.3	.....	20812
F2720	.....	13996	F2809.5	.....	14130	F2860.76	.....	21040.2	F2915.4	.....	20828
F2722	.....	14000	F2810	.....	14132	F2860.8	.....	21040.4	F2916	.....	20836
F2723	.....	14002	F2813	.....	14129.4	F2860.9	.....	21040.6	F2916.3	.....	20840
F2724	.....	14004	F2814	.....	14140	F2862	.....	21032	F2916.5	.....	20840.1
F2728	.....	14008	F2818	.....	14144	F2865	.....	21042	F2917	.....	20844
F2728.5	.....	14009	F2818.4	.....	14145	F2865.1	.....	21042.1	F2917.3	.....	20844.1
F2729	.....	14012	F2818.8	.....	14146	F2867	.....	21028	F2918	.....	20848
F2730	.....	14016	F2819	.....	13985	F2869	.....	21020	F2920	.....	20808
F2730.5	.....	14014	F2819.5	.....	13991.5	F2869.07	.....	21022	F2922	.....	20800
F2732	.....	14020	F2820	.....	13991	F2869.15	.....	21016	F2923	.....	20804
F2735	.....	14007	F2822	.....	13988	F2869.27	.....	21011	F2924	.....	20796
F2737	.....	14006	F2822.5	.....	13990	F2869.3	.....	21012	F2924.2	.....	20797
F2742	.....	14024	F2823	.....	13992	F2869.4	.....	21008	F2924.3	.....	20797.1
F2743	.....	14024.6	F2824	.....	20289.6	F2869.5	.....	21006	F2928	.....	20792
F2746	.....	14028	F2824.5	.....	20289.2	F2869.7	.....	21003	F2930	.....	20788
F2746.1	.....	14032	F2825	.....	20289	F2869.8	.....	21002	F2932	.....	20784
F2747	.....	14036	F2825.1	.....	20290	F2870	.....	21004	F2932.4	.....	20780
F2747.5	.....	14026	F2825.15	.....	20290.1	F2873	.....	21005	F2932.7	.....	20776
F2747.6	.....	14025	F2825.17	.....	20289.8	F2876	.....	21000	F2933	.....	20772
F2747.65	.....	14036.4	F2825.18	.....	20290.8	F2877	.....	20998	F2934	.....	20768
F2747.67	.....	14036.5	F2825.194	.....	20291.2	F2878	.....	20992	F2934.5	.....	20767
F2747.7	.....	14037	F2825.196	.....	20290.4	F2878.5	.....	20996	F2935	.....	20764
F2747.8	.....	14038	F2825.197	.....	20290.2	F2880	.....	20968	F2936	.....	20765
F2747.9	.....	14040.5	F2825.2	.....	24376	F2881	.....	20974	F2936.5	.....	20766
F2748	.....	14040	F2825.3	.....	24380	F2881.5	.....	20975	F2937	.....	20760
F2748.5	.....	14040.7	F2825.4	.....	24384	F2884	.....	20964	F2939	.....	20700
F2749	.....	14044	F2826	.....	21172	F2885	.....	20960	F2941	.....	20704
F2749.2	.....	14044.5	F2827	.....	21173	F2885.03	.....	20959	F2941.1	.....	20708
F2749.5	.....	14045	F2832.5	.....	21167.5	F2885.05	.....	20957	F2942	.....	20724
F2750	.....	14056	F2833	.....	21156	F2885.1	.....	20956	F2942.1	.....	20728
F2754	.....	14064	F2833.4	.....	21160	F2885.15	.....	20958	F2943	.....	20712
F2755	.....	14063	F2834	.....	21152	F2885.17	.....	20955	F2943.1	.....	20716
F2756	.....	14068	F2835	.....	21167	F2885.2	.....	20952	F2943.5	.....	20701
F2756.5	.....	14070	F2835.3	.....	21166	F2885.5	.....	20948	F2943.51	.....	20702
F2757	.....	14060	F2835.5	.....	21165	F2885.6	.....	20942	F2944	.....	20720
F2758	.....	14072	F2836	.....	21164	F2885.7	.....	20940	F2945	.....	20732
F2759	.....	14074	F2836.1	.....	21150	F2886	.....	20944	F2945.1	.....	20736
F2760	.....	14076	F2836.3	.....	21148	F2887	.....	20937.5	F2948	.....	20740
F2762	.....	14080	F2836.7	.....	21138	F2887.1	.....	20937	F2948.2	.....	20744
F2764	.....	14052	F2837	.....	21140	F2888	.....	20936	F2948.4	.....	20748
F2766	.....	14048	F2837.2	.....	21144	F2888.5	.....	20935	F2948.6	.....	20752
F2767	.....	14050	F2839.5	.....	21128	F2889	.....	20934	F2948.8	.....	20756
F2769	.....	14051	F2840	.....	21124	F2890	.....	20932	F2954	.....	20672
F2772	.....	14084	F2842	.....	21122	F2893	.....	20926	F2958	.....	20668
F2774	.....	14088	F2845	.....	21088	F2894	.....	20920	F2958.8	.....	20666.7
F2775	.....	14089	F2846.9	.....	21087	F2895	.....	20876	F2959	.....	20666
F2775.5	.....	14090	F2847	.....	21076	F2895.4	.....	20878	F2959.4	.....	20666.5
F2776	.....	14092.3	F2848	.....	21080	F2895.5	.....	20877	F2959.8	.....	20666.71
F2778	.....	14092	F2848.1	.....	21084	F2898	.....	20912	F2960	.....	20664
F2778.5	.....	14093	F2854	.....	21072	F2900	.....	20896	F2962	.....	20660
F2779	.....	14095	F2857	.....	21052	F2904	.....	20880	F2963	.....	20661
F2780	.....	14116	F2857.5	.....	21062.4	F2905	.....	20884	F2963.2	.....	20661.1
F2782	.....	14114	F2857.6	.....	21062.5	F2905.1	.....	20888	F2963.4	.....	20662
F2784	.....	14096	F2858	.....	21056	F2906	.....	20892	F2963.5	.....	20662.1
F2786	.....	14100	F2858.1	.....	21060	F2906.4	.....	20894	F2963.7	.....	20662.3
F2788	.....	14104	F2858.2	.....	21068	F2907	.....	20872	F2963.73	.....	20662.5
F2790	.....	14108	F2858.3	.....	21064	F2908	.....	20860	F2963.75	.....	20662.51
F2794	.....	14112	F2858.35	.....	21068.4	F2909	.....	20868	F2963.86	.....	20662.25
F2798	.....	14120	F2858.5	.....	21068.6	F2910	.....	20856	F2963.88	.....	20662.26
F2798.5	.....	14122	F2858.6	.....	21069.6	F2912	.....	20852	F2963.9	.....	20662.4
F2800	.....	14129	F2859	.....	21034	F2914	.....	20832	F2963.91	.....	20662.41

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
F2964	.....	20652	F3083	.....	20446	F3310	.....	20214.3	F3350.2	.....	20194.5
F2966	.....	20656	F3084	.....	20448	F3312	.....	20214.4	F3350.4	.....	20194.6
F2968	.....	20648	F3084.1	.....	20452	F3312.1	.....	20214.5	F3350.5	.....	20195
F2970	.....	20644	F3110	.....	20464	F3313	.....	20214.6	F3351	.....	20195.5
F2973	.....	20640	F3116	.....	20412	F3313.1	.....	20214.7	F3351.1	.....	20195.51
F2973.5	.....	20616	F3118	.....	20408	F3314	.....	20214.8	F3352	.....	20194.7
F2974	.....	20634	F3120	.....	20406	F3314.1	.....	20214.9	F3356	.....	20192
F2975	.....	20628	F3122	.....	20404	F3315	.....	20216.5	F3357	.....	20188
F2975.1	.....	20632	F3134	.....	20384	F3316	.....	20215	F3357.5	.....	20184
F2975.3	.....	20624	F3137	.....	20392	F3316.1	.....	20095	F3358	.....	20112
F2975.4	.....	20620	F3137.2	.....	20396	F3316.2	.....	20086	F3358.5	.....	20110
F2976	.....	20608	F3137.4	.....	20397	F3316.3	.....	20213	F3359	.....	20000
F2982	.....	20612	F3137.8	.....	20400	F3319	.....	20093.8	F3360	.....	20004
F2984	.....	20604	F3138	.....	20388	F3320	.....	20092	F3360.1	.....	20008
F2985	.....	20603.5	F3138.9	.....	20386.1	F3320.5	.....	20087	F3360.4	.....	20010
F2986.1	.....	20601	F3139	.....	20386	F3320.51	.....	20087.1	F3360.41	.....	20012
F2986.11	.....	20601.1	F3139.1	.....	20386.2	F3321	.....	20088	F3361	.....	20102
F2986.5	.....	20602	F3140	.....	20385	F3321.1	.....	20088.1	F3368	.....	20016
F2987.5	.....	20599	F3148	.....	20372	F3326	.....	20096	F3368.1	.....	20020
F2987.6	.....	20597	F3150	.....	20376	F3327	.....	20100	F3370	.....	20013
F2987.61	.....	20597.1	F3154	.....	20368	F3327.4	.....	20103	F3372.1	.....	20014
F2988	.....	20600	F3158	.....	20364	F3328	.....	20104	F3372.11	.....	20015
F2990	.....	20596	F3162	.....	20332	F3328.5	.....	20105	F3374	.....	20024
F2992	.....	20584	F3163	.....	20336	F3332	.....	20106	F3374.1	.....	20028
F2994	.....	20592	F3176	.....	20324	F3333	.....	20107	F3375	.....	20029
F2996	.....	20580	F3184	.....	20320	F3334	.....	20116	F3378	.....	20032
F2998	.....	20576	F3196	.....	20288	F3336	.....	20108	F3378.1	.....	20036
F3000	.....	20572	F3197.5	.....	20280	F3337	.....	20164	F3379	.....	20056
F3001	.....	20570	F3199.5	.....	20284	F3337.1	.....	20176	F3379.1	.....	20060
F3002	.....	20568	F3204	.....	20292	F3337.3	.....	20180	F3379.9	.....	20037
F3004	.....	20560	F3206	.....	20296	F3337.6	.....	20168	F3379.92	.....	20038
F3006	.....	20564	F3209	.....	20312	F3337.61	.....	20172	F3380	.....	20040
F3008	.....	20556	F3210	.....	20304	F3337.85	.....	20163	F3380.1	.....	20044
F3010	.....	20552	F3210.1	.....	20308	F3337.89	.....	20162	F3381	.....	20048
F3012	.....	20548	F3211	.....	20316	F3338.2	.....	20160	F3381.1	.....	20052
F3014	.....	20532	F3213	.....	20278	F3338.34	.....	20157	F3381.15	.....	20053
F3015	.....	20536	F3216	.....	20277	F3338.4	.....	20156	F3381.18	.....	20046
F3016	.....	20540	F3220	.....	20276	F3338.9	.....	20153	F3381.19	.....	20054
F3017	.....	20544	F3225	.....	20274	F3339	.....	20152	F3381.652	.....	20065.1
F3019	.....	20524	F3230	.....	20273	F3341	.....	20151	F3382	.....	20076
F3019.1	.....	20528	F3232	.....	20216	F3342	.....	20148	F3382.1	.....	20080
F3021	.....	20496	F3233	.....	20272.5	F3342.73	.....	20146	F3382.15	.....	20080.1
F3022	.....	20516	F3234	.....	20272	F3342.74	.....	20147	F3382.362	.....	20082.2
F3025	.....	20518	F3236	.....	20268	F3343.3	.....	20145	F3382.421	.....	20084
F3028	.....	20520	F3268	.....	20248	F3346	.....	20132	F3382.422	.....	20084.1
F3030	.....	20512	F3268.1	.....	20252	F3347	.....	20136	F3382.425	.....	20083.2
F3032	.....	20504	F3272	.....	20256	F3347.1	.....	20140	F3382.426	.....	20083.3
F3032.1	.....	20508	F3272.1	.....	20260	F3347.3	.....	20144	F3383	.....	20068
F3036	.....	20500	F3278	.....	20264	F3347.95	.....	20131	F3383.1	.....	20072
F3039	.....	20494	F3279	.....	20265	F3348	.....	20130.5	F3404	.....	19996
F3039.5	.....	20494.5	F3279.2	.....	20265.1	F3348.1	.....	20124	F3404.2	.....	19995.3
F3040	.....	20493	F3280	.....	20265.5	F3348.3	.....	20128	F3404.3	.....	19995.1
F3042	.....	20492	F3280.4	.....	20264.5	F3348.35	.....	20122	F3404.6	.....	19993
F3046	.....	20476	F3282	.....	20266	F3348.4	.....	20120	F3404.9	.....	19995
F3048	.....	20480	F3282.1	.....	20266.1	F3348.43	.....	20212.6	F3405	.....	19992
F3048.1	.....	20484	F3283	.....	20267	F3348.44	.....	20212.5	F3405.5	.....	19988
F3049	.....	20488	F3292	.....	20240	F3348.46	.....	20212	F3405.6	.....	19986
F3049.5	.....	20486	F3293	.....	20220	F3348.5	.....	20208	F3405.8	.....	19985
F3060	.....	20472	F3296	.....	20224	F3348.6	.....	20204	F3406	.....	19984
F3066	.....	20416	F3297	.....	20228	F3348.65	.....	20203	F3406.5	.....	19984.5
F3070	.....	20428	F3298	.....	20232	F3348.8	.....	20200	F3407	.....	19980
F3076	.....	20432	F3299	.....	20236	F3348.92	.....	20199	F3416	.....	19640
F3078	.....	20436	F3306	.....	20214	F3348.93	.....	20198	F3420	.....	19720
F3078.1	.....	20440	F3307	.....	20214.1	F3349	.....	20196	F3420.5	.....	19723
F3082	.....	20444	F3309	.....	20214.2	F3350	.....	20194	F3424	.....	19648

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
F3426	.....	19656	F3521.7	.....	19550	F3535.72	.....	19485.1	F3577.68	.....	19425
F3427	.....	19644	F3521.72	.....	19550.5	F3535.78	.....	19485	F3577.7	.....	19430
F3427.01	.....	19644.1	F3521.8	.....	19554.5	F3536.5	.....	19496	F3577.8	.....	19427.5
F3427.1	.....	19644.2	F3521.83	.....	19554	F3537.4	.....	19483.2	F3577.84	.....	19427
F3427.2	.....	19660	F3521.922	.....	19556.7	F3537.41	.....	19483.25	F3577.86	.....	19431
F3427.5	.....	19658	F3522	.....	19574	F3537.432	.....	19483.3	F3578	.....	19326
F3428	.....	19664	F3522.3	.....	19570	F3537.435	.....	19483.31	F3578.3	.....	19292
F3429	.....	19668	F3523	.....	19566	F3537.6	.....	19504	F3578.4	.....	19296
F3430	.....	19672	F3523.2	.....	19578	F3537.7	.....	19508	F3580.6	.....	19318
F3432	.....	19676	F3523.22	.....	19578.2	F3537.8	.....	19445	F3580.7	.....	19322
F3433	.....	19687	F3523.23	.....	19578.4	F3538	.....	19460	F3580.88	.....	19314
F3434	.....	19690	F3523.24	.....	19578.6	F3540.7	.....	19483	F3580.9	.....	19306
F3435	.....	19696	F3523.25	.....	19578.8	F3540.75	.....	19483.1	F3580.93	.....	19310
F3435.2	.....	19702	F3523.26	.....	19579	F3540.8	.....	19482	F3580.94	.....	19312
F3435.4	.....	19693	F3523.4	.....	19582	F3540.85	.....	19482.1	F3580.95	.....	19300
F3435.6	.....	19699	F3523.5	.....	19587	F3541	.....	19480.5	F3580.98	.....	19290
F3442	.....	19708	F3523.53	.....	19608	F3541.3	.....	19480	F3581	.....	19288
F3443	.....	19705	F3523.55	.....	19611	F3545.4	.....	19476	F3581.228	.....	19289.5
F3446	.....	19711	F3523.58	.....	19612	F3545.55	.....	19476.2	F3581.284	.....	19288.5
F3448.5	.....	19717	F3523.6	.....	19610	F3545.7	.....	19476.4	F3581.3	.....	19284
F3450	.....	19692	F3523.8	.....	19586	F3545.75	.....	19476.6	F3581.35	.....	19286
F3452	.....	19779	F3524	.....	19588	F3548	.....	19473	F3582	.....	19280
F3456	.....	19804	F3524.5	.....	19724	F3548.2	.....	19473.3	F3584	.....	19276
F3457.4	.....	19762	F3525.5	.....	19726	F3551	.....	19400.2	F3585	.....	19272
F3457.41	.....	19762.1	F3525.6	.....	19727	F3551.2	.....	19400	F3586	.....	19264
F3458	.....	19754	F3526	.....	19742	F3551.4	.....	19400.1	F3587.43	.....	19223
F3458.1	.....	19754.1	F3526.2	.....	19746	F3553	.....	19400.4	F3587.625	.....	19206.5
F3458.4	.....	19770	F3526.5	.....	19800	F3553.3	.....	19400.3	F3587.7	.....	19206
F3458.5	.....	19774	F3526.6	.....	19750	F3553.6	.....	19400.5	F3587.74	.....	19206.3
F3459	.....	19778	F3526.8	.....	19752	F3560.5	.....	19389	F3588	.....	19208
F3465	.....	19810	F3526.9	.....	19768	F3560.55	.....	19389.2	F3588.5	.....	19210
F3466	.....	19812	F3527	.....	19766	F3560.6	.....	19389.4	F3589	.....	19230
F3467	.....	19811	F3527.1	.....	19765	F3560.65	.....	19389.6	F3589.2	.....	19229
F3468.1	.....	19815	F3527.6	.....	19729.2	F3562.5	.....	19386	F3589.4	.....	19231
F3468.2	.....	19815.1	F3527.66	.....	19728	F3562.55	.....	19386.3	F3590	.....	19232
F3473.9	.....	19820	F3527.7	.....	19728.2	F3562.6	.....	19386.6	F3592	.....	19216
F3474	.....	19824	F3527.72	.....	19728.4	F3566	.....	19379.5	F3592.3	.....	19234
F3474.1	.....	19828	F3527.73	.....	19728.6	F3567	.....	19379	F3593	.....	19224
F3474.6	.....	19829	F3527.74	.....	19729.4	F3568	.....	19376	F3593.1	.....	19224.1
F3474.605	.....	19829.1	F3527.8	.....	19728.8	F3569	.....	19381	F3594	.....	19240
F3476	.....	19832	F3527.82	.....	19729	F3570	.....	19370	F3594.1	.....	19240.1
F3476.1	.....	19836	F3527.9	.....	19732	F3571.5	.....	19373	F3595	.....	19236
F3482	.....	19840	F3528	.....	19734	F3571.72	.....	19367	F3595.1	.....	19236.1
F3482.1	.....	19844	F3529	.....	19736	F3571.8	.....	19364	F3595.2	.....	19244
F3483	.....	19848	F3529.3	.....	19738	F3572	.....	19355	F3595.21	.....	19244.1
F3483.1	.....	19852	F3529.5	.....	19528	F3573	.....	19358	F3595.3	.....	19249
F3483.2	.....	19856	F3530	.....	19532	F3573.6	.....	19352	F3595.7	.....	19207
F3483.21	.....	19860	F3530.6	.....	19520	F3574	.....	19342	F3598	.....	19205
F3515	.....	19590	F3530.8	.....	19521	F3575	.....	19353	F3598.5	.....	19204
F3520	.....	19594	F3530.9	.....	19523	F3575.4	.....	19349	F3600.3	.....	19202
F3520.5	.....	19593	F3531	.....	19516	F3575.6	.....	19334	F3603	.....	19200
F3521	.....	19606	F3531.3	.....	19544	F3575.8	.....	19338	F3603.6	.....	19193
F3521.005	.....	19592	F3531.5	.....	19546	F3576	.....	19330	F3604	.....	19192
F3521.01	.....	19591	F3532	.....	19526	F3576.6	.....	19405	F3605	.....	19188
F3521.13	.....	19607	F3532.2	.....	19512	F3576.8	.....	19415	F3606	.....	19196
F3521.15	.....	19609	F3532.25	.....	19514	F3577	.....	19410	F3607	.....	19197
F3521.18	.....	19619	F3532.3	.....	19524	F3577.1	.....	19420	F3609	.....	19186
F3521.2	.....	19618	F3534	.....	19492	F3577.2	.....	19412	F3609.2	.....	19186.2
F3521.3	.....	19622	F3534.2	.....	19488	F3577.3	.....	19421.1	F3609.3	.....	19186.3
F3521.35	.....	19626	F3534.22	.....	19488.2	F3577.4	.....	19422	F3610	.....	19184
F3521.37	.....	19627	F3534.24	.....	19488.4	F3577.44	.....	19442	F3612	.....	19180
F3521.4	.....	19628	F3534.3	.....	19488.6	F3577.46	.....	19558	F3612.2	.....	19150.8
F3521.54	.....	19540	F3535.42	.....	19484.1	F3577.5	.....	19562	F3612.3	.....	19151.6
F3521.6	.....	19552	F3535.666	.....	19483.5	F3577.6	.....	19437	F3612.5	.....	19162
F3521.66	.....	19548	F3535.668	.....	19483.6	F3577.64	.....	19432	F3612.57	.....	19151.7

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
F3613		19152	F3660.4		19076	F3714.32		18973	F3734.8		18892.7
F3613.5		19156	F3660.8		19018	F3714.33		18973.1	F3738		18884
F3614		19160	F3661		19068	F3714.34		18973.3	F3739		18879.6
F3614.5		19163	F3661.2		19070	F3714.6		18922	F3740		18880
F3615		19168	F3661.5		19072	F3714.82		18917	F3740.02		18878
F3615.5		19164	F3662		19020, 19053	F3714.965		18930.3	F3740.025		18878.5
F3616		19172	F3662.3		19040	F3715		18928	F3740.027		18878.2
F3617		19174	F3662.4		19048	F3715.21		18930.1	F3740.055		18879.5
F3618.385		19175	F3662.6		19052	F3715.3		18929	F3740.06		18879.1
F3620		19176	F3662.7		19066	F3715.4		18920	F3740.08		18879
F3620.25		19150.6	F3662.8		19067	F3715.6		18919	F3740.73		18877.4
F3620.4		19150.4	F3663		19054	F3716		18916	F3740.8		18877.5
F3620.8		19150	F3663.22		19024	F3716.39		18913	F3741		18877
F3625		19148	F3663.23		19028	F3716.4		18912	F3746		18872
F3626		19144	F3663.24		19032	F3716.435		18910	F3747		18876
F3627		19141	F3663.25		19036	F3716.48		18966	F3747.05		18876.1
F3627.5		19137	F3663.5		19064	F3716.645		18909.8	F3747.13		18876.5
F3627.52		19137.1	F3663.6		19060	F3716.66		18908.7	F3747.14		18876.2
F3627.8		19139	F3664.5		19016	F3716.71		18909	F3747.23		18876.6
F3627.905		19139.9	F3665		19012	F3716.715		18909.3	F3747.26		18876.7
F3627.908		19140.1	F3667		19010	F3716.722		18909.6	F3747.28		18876.3
F3628		19124	F3668		19008	F3716.723		18909.5	F3747.3		18876.9
F3632		19136	F3669		19004	F3716.727		18909.1	F3747.4		18864
F3632.3		19135	F3670		19000	F3716.736		18909.7	F3747.6		18867
F3632.5		19134	F3674		18996	F3716.737		18909.75	F3748		18868
F3633.025		19136.7	F3675.5		18984	F3716.751		18908.5	F3750		18796
F3633.15		19136.4	F3676		18992	F3716.753		18906	F3751		18794
F3633.17		19136.5	F3680.25		18982.5	F3716.78		18909.85	F3752		18792
F3633.3		19133	F3681		18983	F3716.79		18909.9	F3753		18784
F3633.4		19133.6	F3682		18982	F3716.8		18908	F3754.2		18808
F3633.8		19133.4	F3682.285		18981.6	F3717		18892	F3754.61		18825
F3633.87		19133.5	F3682.8		18981.5	F3717.5		18888	F3754.613		18825.01
F3633.9		19133.2	F3683.45		18981.1	F3717.74		18892.31	F3754.616		18825.02
F3634		19132	F3683.48		18981.3	F3717.754		18892.3	F3754.619		18825.03
F3634.4		19128	F3684		18981	F3717.78		18892.32	F3754.6191		18825.13
F3634.8		19092	F3685		18980.5	F3717.79		18892.34	F3754.622		18825.04
F3635		19096	F3689		18980	F3717.9		18887.5	F3754.6221		18825.14
F3635.1		19100	F3690.25		18979.15	F3717.96		18887.52	F3754.625		18825.05
F3635.2		19104	F3691		18979.1	F3717.961		18887.53	F3754.6251		18825.15
F3635.4		19112	F3691.7		18979.05	F3717.962		18887.54	F3754.626		18825.06
F3635.41		19116	F3691.8		18979	F3717.964		18887.51	F3754.6261		18825.16
F3635.42		19114	F3692		18978	F3717.968		18887.45	F3754.627		18825.07
F3635.65		19122	F3692.28		18976.1	F3717.972		18887.4	F3754.6271		18825.17
F3635.7		19120	F3712		18936	F3717.99		18885	F3754.628		18825.08
F3635.723		19122.2	F3714		18932	F3718.3		18886	F3754.6281		18825.18
F3635.731		19122.3	F3714.008		18938	F3718.498		18886.5	F3754.63		18825.1
F3635.735		19123	F3714.015		18955.5	F3718.53		18887	F3754.633		18825.11
F3641.1		19091.2	F3714.02		18955	F3718.8		18893	F3754.636		18825.12
F3641.2		19091.5	F3714.14		18940	F3718.81		18892.45	F3754.638		18825.09
F3641.93		19091.3	F3714.143		18937	F3718.82		18892.5	F3754.6381		18825.19
F3641.95		19091	F3714.148		18954	F3718.84		18892.4	F3754.639		18825.2
F3642		19090.5	F3714.16		18944	F3718.89		18892.48	F3754.64		18826.1
F3642.3		19090.7	F3714.18		18948	F3719.75		18909.77	F3754.643		18826.11
F3642.4		19090.9	F3714.186		18977	F3719.8		18902.5	F3754.646		18826.12
F3644		19090	F3714.2		18952	F3719.88		18905	F3754.649		18826.13
F3648		19087	F3714.206		18953	F3719.9		18904.5	F3754.652		18826.14
F3648.6		19085	F3714.21		18953.5	F3720		18904	F3754.655		18826.15
F3648.8		19085.5	F3714.22		18956	F3720.3		18903.7	F3754.656		18826.04
F3649		19086.5	F3714.24		18960	F3720.7		18903.5	F3754.657		18826.05
F3649.3		19086.3	F3714.245		18957	F3721.3		18903.3	F3754.658		18826.16
F3650		19086	F3714.254		18965	F3723		18903.1	F3754.659		18826.06
F3656		19085.3	F3714.26		18964	F3724		18903	F3754.661		18826.17
F3657.57		19084.5	F3714.266		18976	F3728		18900	F3754.662		18826.18
F3659		19084	F3714.28		18968	F3730		18902	F3754.663		18826.07
F3660		19080	F3714.3		18972	F3734		18896	F3754.664		18826.19

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
F3754.665	.....	18826.08	F3803.4	.....	18779.3	F3867	.....	18634	F3911.62	.....	18527.1
F3754.666	.....	18826.2	F3803.41	.....	18779.31	F3868	.....	18608	F3911.8	.....	18506
F3754.667	.....	18826.09	F3803.48	.....	18778.8	F3868.5	.....	18617	F3932	.....	18496
F3754.67	.....	18826.01	F3803.5	.....	18779	F3869	.....	18616	F3932.35	.....	18497
F3754.673	.....	18826.02	F3803.6	.....	18778.6	F3870	.....	18612	F3936	.....	18476
F3754.676	.....	18826.03	F3803.61	.....	18778.7	F3871	.....	18624	F3937	.....	18408
F3754.679	.....	18826.3	F3803.81	.....	18778.25	F3871.3	.....	18629	F3937.4	.....	18412
F3754.69	.....	18829	F3803.82	.....	18778.26	F3871.6	.....	18628.5	F3937.41	.....	18416
F3754.7	.....	18828	F3803.85	.....	18778.2	F3871.63	.....	18628	F3937.6	.....	18420
F3755	.....	18812	F3803.86	.....	18778.21	F3871.7	.....	18626	F3941	.....	18468
F3762	.....	18780	F3804	.....	18760	F3871.71	.....	18626.1	F3941.1	.....	18472
F3764.5	.....	18824.4	F3805.84	.....	18754.1	F3874	.....	18620	F3942	.....	18454
F3764.6	.....	18824.3	F3806	.....	18756	F3876	.....	18600	F3942.1	.....	18454.5
F3767	.....	18816	F3806.5	.....	18753.91	F3878	.....	18596	F3943	.....	18440
F3768	.....	18824	F3807.7	.....	18753.9	F3880	.....	18604	F3943.1	.....	18444
F3768.8	.....	18824.2	F3808	.....	18752	F3880.5	.....	18592	F3943.8	.....	18456
F3768.9	.....	18824.1	F3808.1	.....	18753.4	F3881	.....	18588	F3943.9	.....	18464
F3770	.....	18830	F3808.2	.....	18753	F3881.4	.....	18587.6	F3944.5	.....	18460
F3770.5	.....	18834	F3808.21	.....	18753.1	F3881.5	.....	18587.7	F3945	.....	18466
F3771	.....	18835	F3808.4	.....	18753.7	F3881.6	.....	18587.8	F3948	.....	18448
F3779	.....	18836	F3808.6	.....	18751.4	F3882	.....	18572	F3948.1	.....	18452
F3780	.....	18840	F3808.65	.....	18751.3	F3882.5	.....	18587	F3948.11	.....	18448.1
F3780.2	.....	18841	F3808.8	.....	18751.2	F3882.51	.....	18587.1	F3948.15	.....	18448.2
F3780.3	.....	18842	F3809	.....	18751	F3884	.....	18576	F3949.5	.....	18424
F3780.4	.....	18843	F3810	.....	18680	F3886	.....	18580	F3950	.....	18428
F3780.5	.....	18844	F3811	.....	18679.2	F3886.5	.....	18587.5	F3950.5	.....	18432
F3780.6	.....	18845	F3812	.....	18679	F3886.55	.....	18587.3	F3950.71	.....	18340
F3781	.....	18848	F3813	.....	18750	F3887	.....	18586	F3953.81	.....	18452.6
F3781.1	.....	18852	F3814	.....	18668	F3887.1	.....	18586.1	F3953.82	.....	18452.7
F3782	.....	18854	F3816	.....	18670	F3888	.....	18584	F3953.9	.....	18452.8
F3783	.....	18855	F3818	.....	18672	F3891.2	.....	18569.1	F3954.65	.....	18453
F3785	.....	18857	F3820	.....	18676	F3891.3	.....	18569	F3954.9	.....	18453.2
F3785.4	.....	18858	F3821	.....	18678	F3892	.....	18556	F3954.91	.....	18453.4
F3785.41	.....	18858.1	F3822	.....	18684	F3892.5	.....	18568	F3960.4	.....	18388
F3790	.....	18860	F3823	.....	18686	F3893	.....	18564	F3964	.....	18387
F3794.14	.....	18779.8	F3824	.....	18692	F3893.5	.....	18560	F3966.2	.....	18384
F3794.168	.....	18779.79	F3824.34	.....	18749.8	F3894	.....	18536	F3966.5	.....	18383
F3794.17	.....	18779.7	F3824.35	.....	18749.75	F3895.22	.....	18559.1	F3966.51	.....	18383.1
F3794.172	.....	18779.9	F3824.36	.....	18749.7	F3895.28	.....	18539	F3970	.....	18336
F3794.199	.....	18779.85	F3824.37	.....	18749.65	F3895.3	.....	18538	F3970.5	.....	18338
F3794.2	.....	18779.6	F3824.38	.....	18749.6	F3895.35	.....	18537	F3971.1	.....	18344
F3794.5	.....	18779.5	F3824.39	.....	18749.5	F3895.85	.....	18558	F3971.9	.....	18348
F3795	.....	18779.4	F3824.41	.....	18749.2	F3896.15	.....	18535.7	F3972	.....	18352
F3795.3	.....	18779.38	F3825	.....	18700	F3896.2	.....	18535.5	F3972.1	.....	18353
F3796.5	.....	18779.33	F3826	.....	18688	F3897	.....	18532	F3972.15	.....	18355
F3796.8	.....	18779.34	F3832	.....	18704	F3898	.....	18533	F3972.3	.....	18358
F3797.8	.....	.....	F3836	.....	18708	F3898.1	.....	18533.5	F3972.5	.....	18373
18779.321	.....	.....	F3837	.....	18728	F3898.5	.....	18532.5	F3972.51	.....	18374
F3798	.....	18779.32	F3837.5	.....	18720	F3898.51	.....	18532.51	F3975	.....	18375
F3799.51	.....	.....	F3844	.....	18732	F3899	.....	18534	F3976	.....	18376
18779.315	.....	.....	F3844.1	.....	18736	F3899.1	.....	18534.5	F3976.1	.....	18377
F3800.4	.....	18758	F3847	.....	18740	F3905.365	.....	18535.1	F3977	.....	18378
F3800.5	.....	18761	F3847.1	.....	18744	F3906.4	.....	18527.5	F3978	.....	18335
F3800.7	.....	18777	F3847.5	.....	18748	F3908	.....	18500	F3979	.....	18334.7
F3800.71	.....	18777.1	F3850.5	.....	18666	F3909.5	.....	18501	F3979.1	.....	18334.71
F3800.8	.....	18778	F3850.6	.....	18664	F3909.6	.....	18502	F3979.15	.....	18334.75
F3800.81	.....	18778.1	F3856	.....	18660	F3909.815	.....	18524.5	F3979.2	.....	18334.8
F3800.97	.....	18776	F3856.29	.....	18661.2	F3909.83	.....	18512	F3979.44	.....	18334.61
F3801	.....	18762	F3856.3	.....	18661	F3909.831	.....	18516	F3979.45	.....	18334.62
F3802	.....	18764	F3858	.....	18656	F3910	.....	18504	F3983	.....	18334
F3802.5	.....	18768	F3860	.....	18652	F3910.1	.....	18508	F3986	.....	18312
F3803	.....	18778.13	F3862	.....	18648	F3910.2	.....	18520	F4010	.....	18236
F3803.1	.....	18778.15	F3863	.....	18644	F3910.21	.....	18524	F4011	.....	18316
F3803.25	.....	18778.5	F3864	.....	18640	F3911.5	.....	18527.2	F4012	.....	18238
F3803.251	.....	18778.55	F3866	.....	18636	F3911.6	.....	18527	F4016	.....	18240

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
F4018	.....	18244	F4626.43	.....	13825.12	F4663.2	.....	13960.05	F4716	.....	13756
F4018.6	.....	18246	F4626.45	.....	13825.2	F4663.4	.....	13960.1	F4724	.....	13760
F4020	.....	18260	F4626.5	.....	13826	F4663.5	.....	13960.13	F4725	.....	13764
F4022	.....	18256	F4628	.....	13828	F4663.6	.....	13960.6	F9307	.....	28122
F4026	.....	18264	F4629	.....	13832	F4663.65	.....	13960.62	F9516.31	.....	24135.5
F4028	.....	18268	F4629.2	.....	13836	F4664	.....	13960	F9526.3	.....	24141
F4030	.....	18272	F4629.23	.....	13834	F4664.5	.....	13961.9	F9527.48	.....	24249
F4032	.....	18276	F4629.24	.....	13829	F4665	.....	13962.5	F9527.5	.....	24372
F4033	.....	18277	F4629.3	.....	13837	F4665.2	.....	13962	F9531	.....	20966
F4043	.....	18282	F4629.35	.....	13837.2	F4665.4	.....	13962.9	F9532	.....	20965
F4044	.....	18280	F4629.4	.....	13837.4	F4665.5	.....	13962.8	F9534.9	.....	20291
F4045	.....	18279	F4629.5	.....	13838	F4666.5	.....	13964	F9584	.....	20193
F4045.22	.....	18279.1	F4629.55	.....	13838.2	F4670	.....	13592	F9690.4	.....	18528
F4045.23	.....	18283	F4629.6	.....	13838.4	F4672	.....	13596	G7110	.....	15288
F4047.3	.....	18287	F4630	.....	13840	F4672.2	.....	13600	K0800	.....	33036
F4053	.....	18234.1	F4640	.....	13884	F4672.4	.....	13612	K0801	.....	33040
F4053.2	.....	18235.2	F4642	.....	13888	F4674	.....	13604	K0802	.....	33056
F4056	.....	18235.3	F4646	.....	13892	F4675	.....	13616	K0805	.....	33044
F4058	.....	18220	F4650	.....	13880	F4675.5	.....	13624	K0805.6	.....	33050
F4058.2	.....	18234.05	F4651	.....	13876	F4676	.....	13620	K0806	.....	33052
F4058.4	.....	18233.5	F4652	.....	13872	F4676.6	.....	13628	K0807	.....	33060
F4058.5	.....	18234	F4653	.....	13864	F4677	.....	13632	K0808.5	.....	33064
F4059	.....	18228	F4653.2	.....	13868	F4678	.....	13640	K0813.2	.....	27467
F4059.12	.....	18232	F4654	.....	13860	F4679	.....	13636	K0819	.....	33106
F4059.13	.....	18232.1	F4658	.....	13856	F4680	.....	13634	K0820	.....	33096
F4059.18	.....	18233	F4658.4	.....	13844	F4680.5	.....	13635	K0820.4	.....	33100
F4059.2	.....	18227	F4659.412	.....	13855	F4682.5	.....	13652	K0820.41	.....	33104
F4059.3	.....	18229	F4659.415	.....	13854	F4683	.....	13656	K0821	.....	33120
F4059.5	.....	18231	F4659.428	.....	13855.1	F4684	.....	13658	K0821.1	.....	33124
F4060	.....	18222	F4659.5	.....	13852	F4685	.....	13659	K0821.4	.....	33108
F4062	.....	18216	F4659.7	.....	13893	F4686	.....	13660	K0821.41	.....	33112
F4064	.....	18212	F4660.15	.....	13896	F4687	.....	13661	K0821.5	.....	33107
F4065	.....	18225	F4660.2	.....	13940	F4688	.....	13662	K0822.1	.....	33084
F4065.3	.....	18225.3	F4660.4	.....	13900	F4690	.....	13588	K0822.4	.....	33088
F4065.4	.....	18225.5	F4660.48	.....	13901	F4692.2	.....	13668	K0822.41	.....	33092
F4065.5	.....	18226.2	F4660.481	.....	13901.1	F4692.21	.....	13672	K0824	.....	23080
F4066	.....	18226	F4660.6	.....	13904	F4692.4	.....	13664	K0838	.....	23204
F4066.5	.....	18211	F4660.61	.....	13921.5	F4693	.....	13676	K0838.5	.....	23206
F4067	.....	18208	F4660.611	.....	13921.51	F4693.2	.....	13677	K0838.7	.....	23209.5
F4068.1	.....	18210	F4660.614	.....	13921.3	F4693.4	.....	13677.2	K0842	.....	23192
F4602	.....	13768	F4660.615	.....	13921.31	F4694	.....	13680	K0844	.....	23201
F4603.04	.....	13769	F4660.617	.....	13921.2	F4697	.....	13682	K0845	.....	23198
F4603.06	.....	13769.5	F4660.618	.....	13921.21	F4700	.....	13684	K0846	.....	23200
F4610	.....	13780	F4660.62	.....	13921.4	F4700.5	.....	13688	K0850	.....	23196
F4612	.....	13776	F4660.621	.....	13921.41	F4700.6	.....	13692	K0851	.....	23162
F4618	.....	13796	F4660.63	.....	13922	F4701	.....	13696	K0851.5	.....	23162.2
F4620	.....	13800	F4660.635	.....	13922.1	F4701.15	.....	13716	K0852	.....	23162.4
F4621	.....	13804	F4660.64	.....	13908	F4701.2	.....	13700	K0852.5	.....	23162.6
F4621.5	.....	13794.1	F4660.66	.....	13909	F4701.22	.....	13704	K0853	.....	23162.8
F4621.51	.....	13794.2	F4660.67	.....	13909.5	F4701.25	.....	13712	K0858	.....	23165
F4621.52	.....	13794	F4660.675	.....	13921.1	F4702	.....	13721	K0859	.....	23190
F4622	.....	13806	F4660.676	.....	13921.11	F4703	.....	13722	K0860	.....	23188
F4623.4	.....	13807	F4660.7	.....	13912	F4704	.....	13725	K0861	.....	23184
F4624.4	.....	13788	F4660.8	.....	13916	F4704.1	.....	13725.5	K0861.5	.....	23159
F4624.42	.....	13792	F4660.9	.....	13919	F4704.2	.....	13726	K0862	.....	23160
F4624.5	.....	13793	F4660.92	.....	13918	F4705	.....	13728	K0864	.....	23164
F4624.51	.....	13793.1	F4660.93	.....	13920	F4706	.....	13732	K0868	.....	23172
F4625	.....	13808	F4660.932	.....	13920.1	F4708	.....	13736	K0870	.....	23176
F4625.2	.....	13812	F4660.94	.....	13906	F4708.1	.....	13740	K0870.2	.....	23180
F4625.4	.....	13816	F4660.941	.....	13907	F4709	.....	13748	K0871	.....	23168
F4626	.....	13820	F4661	.....	13944	F4709.3	.....	13750	K0872	.....	23161
F4626.1	.....	13824	F4661.5	.....	13948	F4709.5	.....	13746	K0872.5	.....	23158.5
F4626.2	.....	13824.5	F4661.6	.....	13949	F4709.7	.....	13747	K0873	.....	23158
F4626.3	.....	13825	F4661.7	.....	13950	F4710	.....	13747.5	K0874	.....	23156
F4626.4	.....	13825.1	F4662	.....	13952	F4714	.....	13752	K0875	.....	23154

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
K0875.7	.....	23153	K0938	.....	22772	K1008.1	.....	22946.5	K1053.6	.....	23356
K0876	.....	23152	K0938.1	.....	22776	K1009	.....	22940	K1053.7	.....	23358
K0876.2	.....	23153.5	K0938.4	.....	22780	K1010	.....	22944	K1053.72	.....	23358.5
K0877	.....	23144	K0938.41	.....	22784	K1010.5	.....	22936	K1053.74	.....	23358.6
K0877.2	.....	23150	K0939	.....	22788	K1010.7	.....	22934	K1053.9	.....	23359
K0877.5	.....	23148	K0939.2	.....	22792	K1011	.....	22928	K1053.91	.....	23359.5
K0877.6	.....	23153.8	K0939.6	.....	22796	K1012	.....	22932	K1054	.....	23360
K0877.8	.....	23138	K0939.64	.....	22800	K1012.5	.....	22933	K1054.5	.....	23361
K0878	.....	23137	K0939.7	.....	22804	K1013	.....	22973	K1055	.....	23362
K0878.1	.....	23136	K0939.8	.....	22808	K1020	.....	22972	K1056	.....	23363
K0879	.....	23135.5	K0940	.....	22812	K1020.5	.....	22972.2	K1056.5	.....	23363.5
K0880	.....	23140	K0940.4	.....	22816	K1020.7	.....	22972.25	K1056.6	.....	23363.9
K0880.2	.....	23142	K0941	.....	22820	K1021	.....	22974	K1056.7	.....	23363.6
K0881	.....	23128	K0941.4	.....	22824	K1021.5	.....	22974.5	K1056.8	.....	23363.7
K0883	.....	23132	K0941.41	.....	22828	K1021.6	.....	22972.3	K1056.9	.....	23363.8
K0883.55	.....	23126	K0942	.....	22832	K1021.8	.....	22972.5	K1058	.....	23364
K0883.6	.....	23120	K0943	.....	22836	K1022	.....	22980	K1060	.....	23368
K0883.65	.....	23115	K0943.2	.....	22840	K1024	.....	22976	K1060.5	.....	23372
K0883.7	.....	23124	K0943.4	.....	22844	K1024.05	.....	22976.5	K1061	.....	23370
K0884	.....	23104	K0945	.....	22848	K1024.1	.....	22975.5	K1062	.....	23404
K0885	.....	23102.4	K0947	.....	22852	K1024.2	.....	22975	K1063	.....	23405
K0885.2	.....	23102.6	K0953	.....	22706	K1024.5	.....	22977	K1064	.....	23406
K0885.5	.....	23102	K0954	.....	22708	K1025	.....	22978	K1065	.....	23407
K0885.51	.....	23102.2	K0956	.....	22709	K1028	.....	23000	K1066	.....	23407.5
K0893	.....	23108	K0957	.....	22710	K1028.7	.....	23002	K1066.2	.....	23407.7
K0895	.....	23101	K0958	.....	22712	K1028.8	.....	22998	K1066.4	.....	23407.8
K0895.4	.....	23101.5	K0968	.....	22732	K1030	.....	22984	K1068	.....	23420
K0897	.....	23100	K0973	.....	22744	K1031	.....	25055	K1068.5	.....	23416
K0898	.....	23099	K0973.1	.....	22748	K1032	.....	22988	K1069	.....	23408
K0900	.....	23098	K0975	.....	22726	K1033	.....	25056	K1069.4	.....	23412
K0904	.....	23096	K0976	.....	22728	K1033.5	.....	25054	K1070	.....	23416.1
K0906	.....	23092	K0980	.....	22724	K1033.6	.....	25053	K1070.1	.....	23416.4
K0910	.....	23088	K0980.4	.....	22722	K1033.8	.....	25051	K1070.2	.....	23416.5
K0911	.....	23086	K0980.5	.....	22722.2	K1034	.....	25052	K1070.3	.....	23416.2
K0914	.....	23076	K0981	.....	22720	K1036	.....	25048	K1070.4	.....	23416.3
K0920	.....	23048	K0981.5	.....	22716	K1038	.....	23392	K1072.7	.....	23417
K0920.5	.....	23052	K0981.9	.....	22926	K1040	.....	23388	K1072.8	.....	23417.1
K0922	.....	23044	K0982	.....	22924	K1042	.....	23376	K1072.85	.....	23418
K0922.2	.....	23058	K0983	.....	22916	K1043	.....	23380	K1072.86	.....	23418.1
K0922.4	.....	23056	K0984	.....	22908	K1044	.....	23384	K1072.9	.....	23422
K0922.6	.....	23060	K0985	.....	22912	K1045	.....	23382	K1073.2	.....	23423.2
K0923	.....	23040	K0986	.....	22914	K1045.5	.....	23383	K1073.21	.....	23423.4
K0923.2	.....	23064	K0988	.....	22904	K1045.7	.....	23383.5	K1073.5	.....	23428
K0923.5	.....	23036	K0990	.....	22896	K1050	.....	23336	K1074	.....	23432
K0925	.....	23028	K0991	.....	22884	K1050.05	.....	23335	K1076	.....	23436
K0926	.....	23024	K0991.3	.....	22878	K1050.1	.....	23333	K1076.4	.....	23440
K0926.5	.....	23020	K0992	.....	22876	K1050.15	.....	23333.4	K1076.9	.....	23444
K0927	.....	23016	K0993	.....	22872	K1050.2	.....	23332	K1078	.....	23396
K0928	.....	23004	K0994	.....	22880	K1050.3	.....	23333.5	K1079	.....	23400
K0928.5	.....	23008	K0996	.....	22868	K1050.5	.....	23334	K1084	.....	23460
K0928.55	.....	23009	K0998	.....	22864	K1051	.....	23340	K1086	.....	23468
K0928.6	.....	23009.2	K1000	.....	22856	K1051.1	.....	23342	K1090	.....	23472
K0928.65	.....	23009.4	K1001	.....	22860	K1051.7	.....	23338	K1091.1	.....	23474
K0928.7	.....	23009.6	K1001.5	.....	22862	K1052	.....	23344	K1091.11	.....	23474.1
K0929	.....	23012	K1002	.....	22968	K1052.5	.....	23346	K1091.12	.....	23475
K0929.2	.....	23013	K1003	.....	22969	K1052.6	.....	23346.7	K1092	.....	23476
K0929.3	.....	23013.5	K1003.1	.....	22969.1	K1052.7	.....	23346.5	K1092.5	.....	23480
K0929.5	.....	23014	K1004	.....	22956	K1052.9	.....	23347	K1092.51	.....	23484
K0929.6	.....	23015	K1005	.....	22952	K1053	.....	23348	K1093	.....	23488
K0931	.....	22752	K1005.4	.....	22957	K1053.2	.....	23352	K1095	.....	23492
K0932	.....	22756	K1005.7	.....	22958	K1053.26	.....	23353	K1095.5	.....	23494
K0932.1	.....	22760	K1006	.....	22960	K1053.3	.....	23354	K1099	.....	23500
K0934	.....	22764	K1006.5	.....	22964	K1053.31	.....	23354.1	K1101	.....	23502
K0934.1	.....	22768	K1007	.....	22948	K1053.33	.....	23355.1	K1102	.....	23520
K0936	.....	22770	K1008	.....	22946	K1053.35	.....	23355.3	K1105	.....	23504

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
K1106	.....	23508	K1197	.....	23670	K1270.1	.....	23828	K1303	.....	25580
K1108	.....	23512	K1198	.....	23672	K1270.11	.....	23832	K1304	.....	25584
K1110	.....	23517	K1200	.....	23676	K1272	.....	23836	K1304.4	.....	25602.5
K1112	.....	23516	K1204	.....	23684	K1272.1	.....	23840	K1304.6	.....	25602.7
K1120	.....	23538	K1210	.....	23688	K1273.2	.....	23842	K1305	.....	25574
K1122	.....	23532	K1211	.....	23689	K1273.21	.....	23842.1	K1306	.....	25574.4
K1124	.....	23524	K1212	.....	23692	K1274	.....	23844	K1307	.....	25604
K1126	.....	23528	K1212.2	.....	23696	K1274.1	.....	23848	K1307.5	.....	25605
K1128	.....	23539	K1213	.....	23700	K1274.6	.....	23856	K1308.1	.....	25603
K1130	.....	23542	K1214	.....	23704	K1274.61	.....	23860	K1308.4	.....	25602
K1132	.....	23560	K1218	.....	23709	K1275.3	.....	23864	K1308.5	.....	25606
K1133	.....	23552	K1220	.....	23708	K1275.4	.....	23868	K1309	.....	25588
K1133.1	.....	23556	K1222	.....	23710	K1276	.....	23822.6	K1309.5	.....	25610
K1133.3	.....	23557	K1223	.....	23712	K1276.2	.....	23822.4	K1310	.....	25608
K1134	.....	23558	K1224	.....	23773	K1276.5	.....	23822.2	K1310.2	.....	25596
K1135	.....	23559	K1225	.....	23714	K1277	.....	23870	K1310.4	.....	25594
K1136	.....	23559.1	K1225.5	.....	23715	K1277.5	.....	23870.5	K1310.6	.....	25593
K1138	.....	23584	K1226	.....	23716	K1278	.....	23869.5	K1310.7	.....	25613
K1139	.....	23580	K1228	.....	23718	K1278.2	.....	23869	K1310.8	.....	25614
K1140	.....	23568	K1230	.....	23720	K1279	.....	23871	K1311	.....	25616
K1140.2	.....	23568.5	K1232	.....	23724	K1280	.....	23871.5	K1311.2	.....	25617
K1140.3	.....	23571.5	K1236	.....	23728	K1282	.....	23804	K1311.5	.....	25618
K1140.4	.....	23571	K1236.1	.....	23732	K1282.5	.....	23775	K1312	.....	25620
K1140.5	.....	23570	K1238	.....	23736	K1283	.....	25544	K1312.1	.....	25624
K1141	.....	23569	K1238.1	.....	23740	K1283.5	.....	25543	K1314	.....	25628
K1144	.....	23572	K1238.5	.....	23742	K1283.7	.....	25545	K1315	.....	25626
K1144.1	.....	23572.5	K1240	.....	23744	K1284	.....	25542	K1315.5	.....	25628.3
K1144.2	.....	23572.8	K1241	.....	23746	K1284.2	.....	25541	K1317	.....	25653.5
K1144.3	.....	23573	K1242	.....	23748	K1285	.....	25540	K1318	.....	25653
K1144.35	.....	23573.1	K1243	.....	23750	K1286	.....	25538	K1318.7	.....	25653.1
K1144.48	.....	23573.3	K1243.5	.....	23751	K1287	.....	25532	K1319	.....	25658
K1144.6	.....	23573.5	K1244	.....	23752	K1289	.....	25536	K1319.2	.....	25658.1
K1144.65	.....	23573.53	K1244.5	.....	23754	K1289.1	.....	25536.1	K1319.4	.....	25658.2
K1144.68	.....	23573.57	K1245	.....	23756	K1290	.....	25528	K1320.2	.....	25660
K1144.8	.....	23573.6	K1246	.....	23760	K1291	.....	25524	K1321	.....	25656
K1145	.....	23574	K1246.3	.....	23771	K1291.2	.....	25526	K1321.5	.....	25653.2
K1145.5	.....	23586	K1246.5	.....	23768	K1291.21	.....	25526.1	K1322	.....	25578
K1149	.....	23590	K1247	.....	23764	K1291.4	.....	25520	K1323	.....	25584.5
K1150	.....	23588	K1248.5	.....	23770	K1291.6	.....	25522	K1324	.....	25585
K1151	.....	23589	K1249	.....	23774	K1292	.....	25546	K1324.5	.....	25586
K1151.1	.....	23589.4	K1250	.....	23776	K1294	.....	25548	K1325.3	.....	25416.6
K1152	.....	23591.5	K1250.1	.....	23780	K1294.5	.....	25551	K1326	.....	25661.3
K1153	.....	23591	K1256	.....	23784	K1294.8	.....	25555.5	K1327	.....	25662
K1157	.....	23608	K1257	.....	23788	K1294.9	.....	25555	K1327.1	.....	25662.1
K1158	.....	23616	K1257.3	.....	23789	K1295	.....	25554	K1327.2	.....	25662.2
K1158.1	.....	23620	K1257.5	.....	23791	K1296	.....	25552	K1327.3	.....	25664.5
K1158.2	.....	23624	K1258	.....	23792	K1296.7	.....	25571	K1327.5	.....	25662.5
K1158.51	.....	23625.4	K1258.1	.....	23792.5	K1297	.....	25568	K1327.7	.....	25664
K1158.55	.....	23625	K1258.2	.....	23796	K1298	.....	25560	K1327.8	.....	25665
K1158.59	.....	23625.2	K1261	.....	23806	K1298.3	.....	25565	K1328	.....	25663
K1158.85	.....	23625.8	K1261.5	.....	23821	K1298.35	.....	25565.5	K1328.5	.....	25666
K1159	.....	23626	K1262	.....	23821.2	K1298.4	.....	25564	K1328.7	.....	25668
K1160	.....	23627	K1262.5	.....	23821.3	K1299	.....	25570	K1329	.....	25628.5
K1162	.....	23612	K1262.8	.....	23821.5	K1299.3	.....	25571.5	K1329.5	.....	25629
K1168	.....	23628	K1263	.....	23821.61	K1299.5	.....	25569	K1330	.....	25629.2
K1174	.....	23632	K1263.1	.....	23821.62	K1299.56	.....	25572.7	K1330.2	.....	25629.4
K1176	.....	23652	K1263.9	.....	23821.6	K1299.57	.....	25572.8	K1330.4	.....	25629.7
K1178	.....	23656	K1264	.....	23821.7	K1299.571	.....	25572.81	K1331.5	.....	25630
K1179	.....	23660	K1264.5	.....	23821.9	K1300	.....	25572	K1332	.....	25631
K1179.2	.....	23664	K1265	.....	23822	K1300.1	.....	25573.5	K1333	.....	25636
K1182	.....	23636	K1267	.....	23823	K1300.2	.....	25573	K1334	.....	25639.5
K1182.1	.....	23640	K1267.4	.....	23823.1	K1300.3	.....	25573.2	K1334.5	.....	25639
K1183	.....	23644	K1267.5	.....	23823.2	K1300.35	.....	25573.4	K1335	.....	25639.3
K1183.1	.....	23648	K1268	.....	23824	K1300.4	.....	25573.3	K1337	.....	25632
K1188	.....	23668	K1270	.....	23852	K1301	.....	25576	K1338	.....	25638

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
K1339	.....	25642	K1405.5	.....	25058	K1438	.....	24952	K1483	.....	25512
K1339.5	.....	25643	K1406	.....	25060	K1438.1	.....	24956	K1484	.....	25504
K1340	.....	25640	K1407	.....	25064	K1438.2	.....	24957	K1485	.....	25503.8
K1340.5	.....	25644	K1407.2	.....	25064.2	K1438.4	.....	24957.5	K1486	.....	24944
K1341	.....	25648	K1407.3	.....	25064.3	K1439	.....	24950	K1486.5	.....	24942
K1341.6	.....	25650	K1407.5	.....	25064.1	K1439.4	.....	24950.5	K1488	.....	24946
K1342	.....	25652	K1407.7	.....	25064.4	K1439.6	.....	24950.6	K1489	.....	25503.7
K1342.5	.....	25651.7	K1408	.....	25065	K1442	.....	24976	K1489.1	.....	25503.65
K1343	.....	25651	K1408.1	.....	25066	K1442.1	.....	24970	K1489.2	.....	25503.6
K1343.5	.....	25651.5	K1408.3	.....	25067	K1442.2	.....	24969	K1490	.....	25500
K1343.7	.....	25651.6	K1409	.....	25066.2	K1442.5	.....	24980	K1490.1	.....	25503
K1344	.....	25712	K1409.1	.....	25066.4	K1442.7	.....	24982	K1490.15	.....	25503.5
K1344.5	.....	25712.5	K1410	.....	25050	K1443	.....	24984	K1491	.....	25502
K1345	.....	25711.7	K1410.3	.....	25049	K1443.5	.....	24986	K1493	.....	25496
K1346	.....	25714	K1410.5	.....	22990	K1444	.....	24948	K1494	.....	25494
K1347	.....	25710	K1411	.....	25044	K1444.2	.....	24987.5	K1496	.....	25492
K1347.5	.....	25711	K1411.2	.....	25040	K1444.3	.....	24987.3	K1498	.....	25488
K1348	.....	25711.5	K1411.22	.....	25042	K1444.4	.....	24987.7	K1500	.....	25485
K1350	.....	25672	K1411.23	.....	25042.5	K1444.5	.....	24949	K1506	.....	25476
K1352	.....	25676	K1411.24	.....	25043	K1445	.....	24947	K1506.5	.....	25474
K1352.5	.....	25676.2	K1411.25	.....	25046	K1446	.....	24946.5	K1506.6	.....	25474.5
K1353	.....	25677	K1411.3	.....	25047	K1446.5	.....	24941	K1507	.....	25480
K1354	.....	25678	K1411.31	.....	25047.1	K1447	.....	24940	K1507.5	.....	25482
K1356	.....	25680	K1411.4	.....	25036	K1449	.....	24938	K1508	.....	25468
K1358	.....	25681	K1411.6	.....	25032	K1450	.....	24939	K1508.5	.....	25461
K1360	.....	25684	K1411.72	.....	25028.5	K1452	.....	24936	K1509	.....	25425
K1360.5	.....	25686	K1411.75	.....	25029	K1454	.....	24932	K1509.5	.....	25464
K1362	.....	25688	K1411.8	.....	25030	K1455	.....	24928	K1510	.....	25460
K1364	.....	25696	K1412	.....	25024	K1456	.....	24924	K1510.5	.....	25458
K1365	.....	25700	K1412.3	.....	25028	K1457	.....	24929	K1511	.....	25436
K1365.5	.....	25682	K1412.5	.....	25026	K1457.5	.....	24926	K1512	.....	25449
K1365.7	.....	25702	K1412.51	.....	25026.1	K1458	.....	24923.7	K1513	.....	25444
K1365.8	.....	25703	K1413.1	.....	24996	K1459	.....	24920	K1514	.....	25448
K1366	.....	25704	K1413.3	.....	25000	K1459.2	.....	24888	K1515	.....	25452
K1366.2	.....	25705	K1413.31	.....	25004	K1459.21	.....	24892	K1516	.....	25440
K1366.4	.....	25705.5	K1416	.....	25012	K1459.4	.....	24900	K1517	.....	25432
K1367	.....	25709	K1417	.....	25014	K1459.41	.....	24904	K1517.2	.....	25434
K1368	.....	25708	K1418	.....	25016	K1459.6	.....	24908	K1518	.....	25424
K1368.3	.....	25709.5	K1419	.....	25018	K1459.61	.....	24912	K1518.5	.....	25421
K1369	.....	25708.5	K1420	.....	24989	K1459.73	.....	24923	K1519	.....	25422
K1369.5	.....	25709.7	K1422	.....	24988	K1459.76	.....	24922	K1522	.....	25420
K1369.6	.....	25709.8	K1422.1	.....	24987.8	K1459.8	.....	24918	K1524	.....	25416
K1371	.....	25717	K1422.2	.....	24987.9	K1459.94	.....	24847	K1528	.....	25414
K1371.1	.....	25717.1	K1422.3	.....	24987.95	K1459.95	.....	24848	K1532	.....	25412
K1371.5	.....	25717.5	K1424	.....	23592	K1460.6	.....	24844.5	K1532.5	.....	25411
K1372	.....	25716	K1424.5	.....	23593	K1460.7	.....	24845	K1536	.....	25408
K1372.4	.....	25716.5	K1426	.....	23604	K1462	.....	24846	K1537	.....	25417
K1372.5	.....	25716.6	K1426.5	.....	24978	K1462.2	.....	24840	K1538.5	.....	25418
K1373	.....	25718	K1427.4	.....	24974	K1462.21	.....	24844	K1540	.....	25470
K1373.5	.....	25718.5	K1427.8	.....	24948.5	K1462.39	.....	24828	K1540.9	.....	25470.5
K1374	.....	25719	K1428	.....	24987	K1462.4	.....	24836	K1540.95	.....	25471
K1376	.....	25720	K1430	.....	24968	K1462.41	.....	24832	K1541	.....	25472
K1376.5	.....	25721	K1431	.....	24966	K1462.6	.....	24852	K1541.1	.....	25472.5
K1378	.....	25722	K1432	.....	24964	K1462.61	.....	24856	K1541.3	.....	25473
K1379	.....	25724	K1433	.....	24963.5	K1462.8	.....	24860	K1541.6	.....	25386
K1380	.....	25732	K1434	.....	24972	K1462.81	.....	24864	K1542	.....	25388
K1380.2	.....	25734	K1435	.....	24973	K1463.1	.....	24880	K1544	.....	25390
K1380.3	.....	25728	K1435.2	.....	24963.4	K1464	.....	24868	K1545	.....	25404
K1382	.....	25736	K1435.3	.....	24963.2	K1464.1	.....	24872	K1545.6	.....	25400
K1382.8	.....	25738	K1435.4	.....	24963	K1468.05	.....	24858	K1547.5	.....	25406
K1383	.....	25740	K1435.5	.....	24961.2	K1468.46	.....	24881	K1547.9	.....	25360
K1384	.....	25741	K1435.7	.....	24961	K1468.5	.....	24882	K1548	.....	25356
K1384.5	.....	25741.2	K1435.8	.....	24960.5	K1476	.....	25508	K1548.3	.....	25364
K1400	.....	25068.7	K1436	.....	24960	K1478	.....	25510	K1548.5	.....	25368
K1402	.....	25068	K1437	.....	24951	K1482.5	.....	25516	K1548.6	.....	25370

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
K1548.65	.....	25370.5	K1564.7	.....	25274	K1623.5	.....	25788	K3347	.....	25924
K1548.7	.....	25372	K1564.8	.....	25274.2	K1624.5	.....	25791	K3347.5	.....	25923
K1548.9	.....	25373.5	K1564.9	.....	25274.4	K1624.7	.....	25791.4	K3347.6	.....	25922
K1548.91	.....	25373.6	K1565	.....	25274.3	K1625	.....	25808	K3347.7	.....	25925
K1549	.....	25373	K1565.5	.....	25249	K1626	.....	25812	K3348.4	.....	25940
K1549.1	.....	25318.6	K1566	.....	25252	K1626.3	.....	25820	K3348.7	.....	25938
K1549.15	.....	25318.4	K1566.3	.....	25256	K1626.5	.....	25816	K3349	.....	25928
K1549.2	.....	25319	K1566.6	.....	25275	K1628	.....	25824	K3350	.....	25936
K1549.25	.....	25319.05	K1566.7	.....	25275.5	K1628.5	.....	25828	K3352	.....	25930
K1549.3	.....	25319.1	K1566.8	.....	25275.6	K1629	.....	25832	K3354	.....	25932
K1549.35	.....	25319.3	K1567.5	.....	25275.7	K1629.3	.....	25833	K3356	.....	25926
K1549.4	.....	25317.2	K1567.6	.....	25275.58	K1629.36	.....	25834	K3358	.....	25944
K1549.7	.....	25317.6	K1567.7	.....	25275.8	K1629.8	.....	25837	K3360	.....	25948
K1550	.....	25318	K1567.8	.....	25275.9	K1630	.....	25840	K3360.5	.....	25948.5
K1550.5	.....	25317	K1568	.....	25276	K1630.4	.....	25833.5	K3361	.....	25949
K1551	.....	25320	K1569	.....	25380	K1630.6	.....	25844	K3362	.....	26020
K1551.2	.....	25324	K1569.3	.....	25384	K1631	.....	25848	K3362.5	.....	26021
K1551.5	.....	25328	K1571.5	.....	25260.2	K1632	.....	25872	K3363	.....	26022
K1551.6	.....	25329	K1572	.....	25260	K1632.4	.....	25884	K3366	.....	25968
K1551.8	.....	25330	K1572.4	.....	25258	K1632.6	.....	25886	K3366.5	.....	25962
K1551.9	.....	25331	K1572.5	.....	25248.5	K1632.7	.....	25886.3	K3367.9	.....	25980
K1552	.....	25332	K1574	.....	25248	K1632.8	.....	25886.5	K3368	.....	25972
K1552.4	.....	25336	K1575	.....	25244	K1633	.....	25876	K3368.1	.....	25976
K1552.6	.....	25340	K1576	.....	25240	K1923.71	.....	24148	K3368.5	.....	25984
K1553	.....	25352	K1578	.....	25239	K1954.4	.....	24450	K3372	.....	25988
K1553.2	.....	25352.5	K1580	.....	25262	K1993.2	.....	24715	K3373	.....	25952
K1553.5	.....	25374	K1582	.....	25771	K3336	.....	25887	K3373.3	.....	25956
K1554	.....	25353	K1587.5	.....	25769	K3338	.....	25888	K3374	.....	25964
K1554.1	.....	25354	K1588	.....	25770	K3338.4	.....	25897.5	K3376	.....	26024
K1554.2	.....	25353.5	K1591	.....	25766	K3338.5	.....	25898	K3376.5	.....	26028
K1554.4	.....	25342	K1592	.....	25742	K3338.7	.....	25899	K3379	.....	25992
K1555	.....	25344	K1594	.....	25748	K3339	.....	25892	K3381	.....	26000
K1555.8	.....	25346	K1596	.....	25744	K3339.1	.....	25896	K3381.1	.....	26004
K1558	.....	25348	K1597	.....	25746	K3339.2	.....	25890	K3382	.....	26008
K1558.2	.....	25348.5	K1598	.....	25810	K3339.6	.....	25900	K3384	.....	26012
K1558.3	.....	25349	K1599	.....	25750	K3339.8	.....	25902	K3386	.....	26016
K1558.32	.....	25349.5	K1599.5	.....	25751	K3340	.....	25904	K3387	.....	26018
K1558.33	.....	25351	K1600	.....	25752	K3340.5	.....	25906	K3389	.....	26032
K1558.34	.....	25350.4	K1600.5	.....	25754	K3340.51	.....	25906.1	K3390	.....	26040
K1558.35	.....	25350	K1601	.....	25756	K3340.52	.....	25906.3	K3390.1	.....	26048
K1558.4	.....	25311	K1601.1	.....	25755	K3340.65	.....	25907.1	K3390.4	.....	26044
K1558.5	.....	25312	K1601.15	.....	25754.5	K3340.67	.....	25907.15	K3391	.....	26036
K1558.6	.....	25316	K1601.3	.....	25756.5	K3340.68	.....	25907.2	K3392	.....	26052
K1558.7	.....	25310	K1601.5	.....	25760	K3340.69	.....	25906.7	K3392.5	.....	26080
K1559	.....	25280	K1603	.....	25764	K3340.7	.....	25907	K3392.7	.....	26056
K1559.5	.....	25284	K1603.5	.....	25948.7	K3340.8	.....	25907.4	K3392.8	.....	26058
K1559.7	.....	25288	K1604	.....	25792	K3340.85	.....	25907.6	K3393	.....	26060
K1559.74	.....	25286	K1605	.....	25796	K3340.87	.....	25907.62	K3393.1	.....	26064
K1559.75	.....	25285	K1605.5	.....	25794	K3340.9	.....	25907.65	K3393.3	.....	26068
K1559.8	.....	25279	K1606	.....	25797	K3340.94	.....	25907.25	K3393.4	.....	26072
K1559.9	.....	25289	K1608	.....	25800	K3340.95	.....	25907.3	K3393.5	.....	26076
K1559.95	.....	25278	K1610.5	.....	25798	K3341	.....	25850	K3393.6	.....	26088
K1559.97	.....	25278.5	K1610.7	.....	25802	K3342.4	.....	25852	K3393.7	.....	26108
K1560	.....	25292	K1611.8	.....	25803	K3342.41	.....	25856	K3395	.....	26096
K1560.05	.....	25296	K1612	.....	25803.5	K3342.6	.....	25860	K3395.15	.....	26081
K1560.2	.....	25300	K1612.5	.....	25803.7	K3342.61	.....	25864	K3395.2	.....	26082
K1560.3	.....	25290	K1613	.....	25806	K3343	.....	25908	K3395.3	.....	26106
K1560.31	.....	25290.2	K1616	.....	25804	K3343.5	.....	25914	K3395.35	.....	26106.5
K1562	.....	25308	K1619	.....	25773	K3344.5	.....	25918	K3395.4	.....	26107
K1562.93	.....	25274.6	K1620	.....	25772	K3344.7	.....	25917.5	K3395.5	.....	26107.5
K1563	.....	25264	K1621	.....	25776	K3345	.....	25917	K3395.55	.....	26107.7
K1563.2	.....	25266	K1621.4	.....	25780	K3345.3	.....	25916	K3395.59	.....	26101
K1563.5	.....	25268	K1622	.....	25782	K3345.4	.....	25910	K3395.6	.....	26100
K1564	.....	25272	K1622.5	.....	25783	K3345.5	.....	25912	K3395.8	.....	26104
K1564.2	.....	25273	K1623	.....	25784	K3346	.....	25920	K3395.9	.....	26104.5

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
K3396	.....	26105	K3450.44	.....	26282	M4146.58	.....	18035	M4158.93	.....	17912.2
K3396.2	.....	26105.5	K3450.46	.....	26283	M4148	.....	18040	M4158.95	.....	17913
K3396.6	.....	26112	K3450.5	.....	26284	M4149	.....	18048	M4158.96	.....	17912.8
K3396.8	.....	26092	K3451	.....	26312	M4149.1	.....	18051	M4158.963	.....	17912.7
K3396.9	.....	26115	K3451.23	.....	26308	M4149.3	.....	17895	M4158.965	.....	17913.1
K3397	.....	26116	K3451.24	.....	26304	M4150	.....	17920	M4158.97	.....	17913.5
K3397.5	.....	26117	K3451.4	.....	26336	M4151	.....	17856.5	M4158.975	.....	17914
K3397.8	.....	26119	K3452	.....	26332	M4152	.....	17856	M4159	.....	17928
K3397.95	.....	26119.5	K3453	.....	26328	M4153	.....	17854	M4160	.....	17926
K3398	.....	26120	K3454	.....	26340	M4153.3	.....	17853.5	M4161	.....	17937
K3398.5	.....	26122	K3455	.....	26324	M4154	.....	17840	M4162	.....	17938.2
K3398.8	.....	26123.5	K3456	.....	26316	M4154.2	.....	17841	M4162.5	.....	17938.1
K3398.9	.....	26123	K3456.5	.....	26320	M4154.22	.....	17849	M4162.62	.....	17938
K3399	.....	26124	K3456.7	.....	26344	M4154.25	.....	17840.8	M4162.621	.....	17938.05
K3399.1	.....	26128	K3457	.....	26348	M4154.3	.....	17850	M4162.72	.....	17938.3
K3399.8	.....	26129	K3458	.....	26352	M4154.4	.....	17851	M4162.75	.....	17938.35
K3400	.....	26130	K3458.4	.....	26356	M4154.5	.....	17852	M4162.76	.....	17938.4
K3400.15	.....	26132	K3459	.....	26360	M4154.69	.....	17853	M4163	.....	17934
K3400.18	.....	26134	K3459.1	.....	26364	M4154.7	.....	17860	M4163.5	.....	18063.5
K3400.2	.....	26136	K3460	.....	26376	M4155	.....	17892	M4164	.....	17944
K3400.4	.....	26140	K3460.1	.....	26380	M4155.1	.....	17858	M4164.25	.....	17949
K3400.6	.....	26142	K3460.2	.....	26381	M4155.4	.....	17924	M4164.3	.....	17953
K3400.7	.....	26142.1	K3460.205	.....	26381.2	M4155.6	.....	18044	M4164.5	.....	17956.5
K3401	.....	26144	K3460.21	.....	26381.4	M4156	.....	17864	M4165	.....	17954
K3401.4	.....	26152	K3460.3	.....	26382	M4156.33	.....	17862	M4166	.....	17956
K3401.6	.....	26156	K3461	.....	26368	M4156.35	.....	17863	M4167	.....	17960
K3401.8	.....	26160	K3461.2	.....	26372	M4156.5	.....	17894	M4167.3	.....	17961
K3402	.....	26172	K3463.4	.....	26388	M4156.58	.....	17893.5	M4167.4	.....	17960.1
K3403	.....	26164	K3463.8	.....	26392	M4156.6	.....	17865	M4168	.....	18056
K3403.1	.....	26168	K3464	.....	26384	M4156.65	.....	17865.1	M4168.5	.....	18052
K3403.2	.....	26170	K3464.4	.....	26396	M4156.7	.....	17866	M4169	.....	18064
K3403.4	.....	26169	K3465	.....	26400	M4156.75	.....	17866.1	M4169.5	.....	18068
K3403.41	.....	26169.5	K3469	.....	26408	M4156.97	.....	17867.1	M4170	.....	18060
K3404	.....	26176	K3469.7	.....	26404	M4157	.....	17896	M4170.4	.....	18062
K3405.4	.....	26184	K3634.2	.....	19132.5	M4158	.....	17932	M4170.43	.....	17957
K3406	.....	26188	K6160.4	.....	6054	M4158.2	.....	17940	M4170.44	.....	17957.1
K3408	.....	26192	K7605.5	.....	29146	M4158.3	.....	17936	M4170.45	.....	17957.5
K3412	.....	26200	M4100	.....	18176	M4158.47	.....	17936.5	M4170.5	.....	17957.4
K3415	.....	26212	M4104	.....	18160	M4158.57	.....	17897.5	M4170.6	.....	17957.2
K3422	.....	26213.1	M4105	.....	18164	M4158.59	.....	17898	M4170.64	.....	17961.1
K3422.5	.....	26214	M4106	.....	18166	M4158.598	.....	17897	M4170.65	.....	17961.15
K3423	.....	26216	M4107	.....	18168	M4158.601	.....	17899	M4170.66	.....	17961.2
K3424	.....	26220	M4112	.....	18156	M4158.62	.....	17900.5	M4170.9	.....	17962.7
K3424.1	.....	26224	M4113	.....	18152	M4158.64	.....	17902	M4170.92	.....	17962
K3426	.....	26228	M4116	.....	18112	M4158.641	.....	17902.1	M4170.94	.....	17962.5
K3428	.....	26232	M4117	.....	18119	M4158.645	.....	17903	M4171	.....	17963
K3429	.....	26244	M4117.5	.....	18118	M4158.65	.....	17905	M4171.2	.....	17963.5
K3429.4	.....	26252	M4118	.....	18116	M4158.662	.....	17906	M4171.5	.....	17964.1
K3429.6	.....	26248	M4119	.....	18120	M4158.664	.....	17906.1	M4172.1	.....	17964.5
K3429.8	.....	26256	M4120	.....	18124	M4158.7	.....	17910.6	M4172.15	.....	17965
K3430	.....	26236	M4122	.....	18128	M4158.71	.....	17910.7	M4172.153	.....	17962.95
K3430.1	.....	26240	M4126	.....	18132	M4158.73	.....	17911	M4172.155	.....	17962.96
K3432	.....	26260	M4128	.....	18136	M4158.74	.....	17911.1	M4172.16	.....	17962.8
K3436	.....	26416	M4132	.....	18148	M4158.77	.....	17911.4	M4172.18	.....	17962.9
K3437	.....	26420	M4135.8	.....	18103	M4158.78	.....	17911.45	M4173.3	.....	17965.5
K3438	.....	26264	M4135.85	.....	18103.1	M4158.79	.....	17911.5	M4173.35	.....	17966
K3440	.....	26288	M4136	.....	18104	M4158.8	.....	17912	M4173.36	.....	17966.5
K3444	.....	26292	M4137.2	.....	18087	M4158.81	.....	17911.9	M4173.4	.....	17967
K3446	.....	26268	M4137.4	.....	18088	M4158.82	.....	17911.6	M4173.5	.....	17967.5
K3448	.....	26296	M4138	.....	18093	M4158.83	.....	17911.7	M4173.52	.....	17968
K3449	.....	26272	M4139	.....	18094	M4158.86	.....	17912.5	M4173.6	.....	17968.5
K3450	.....	26276	M4140	.....	18096	M4158.87	.....	17912.6	M4173.8	.....	17969
K3450.3	.....	26280	M4145	.....	18080	M4158.9	.....	17912.3	M4174	.....	17971.5
K3450.4	.....	26281	M4146	.....	18076	M4158.91	.....	17912.4	M4174.5	.....	17970
K3450.41	.....	26281.5	M4146.5	.....	18077	M4158.92	.....	17912.1	M4175	.....	17969.5

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
M4175.2	.....	17970.5	M4206.3	.....	17752	M4228	.....	17704	M4265.2	.....	17528
M4175.4	.....	17971	M4206.35	.....	17754	M4228.5	.....	17588	M4265.3	.....	17528.5
M4176	.....	17972	M4206.38	.....	17746	M4229	.....	17648	M4265.4	.....	17528.6
M4176.3	.....	17973	M4206.4	.....	17812	M4229.1	.....	17649	M4265.43	.....	17528.62
M4176.5	.....	17976	M4206.6	.....	17744	M4229.5	.....	17645	M4265.45	.....	17528.65
M4176.7	.....	17980	M4206.7	.....	17727	M4229.8	.....	17644.5	M4265.5	.....	17528.7
M4177	.....	17983	M4206.8	.....	17728	M4230	.....	17643	M4265.55	.....	17528.8
M4178	.....	17984	M4206.85	.....	17746.5	M4231	.....	17656	M4265.6	.....	17392.9
M4178.4	.....	17988	M4206.955	.....	17727.6	M4231.5	.....	17658	M4265.65	.....	17374
M4178.5	.....	17989	M4207.2	.....	17726.5	M4232	.....	17584	M4265.7	.....	17393
M4178.6	.....	17990	M4207.3	.....	17731	M4232.6	.....	17582	M4265.8	.....	17393.5
M4179	.....	17996	M4207.4	.....	17732	M4234	.....	17592	M4265.9	.....	17391
M4179.2	.....	17992	M4207.5	.....	17736	M4234.6	.....	17593	M4266	.....	17376
M4180	.....	18033	M4207.6	.....	17738	M4234.8	.....	17594	M4266.5	.....	17380
M4184	.....	17844	M4207.65	.....	17737	M4235	.....	17614	M4267	.....	17381
M4184.5	.....	17839.8	M4207.7	.....	17740	M4236	.....	17596	M4267.5	.....	17382
M4185	.....	17848	M4208	.....	17720	M4237	.....	17612	M4269	.....	17396
M4185.12	.....	17839	M4209	.....	17716	M4238	.....	17608	M4269.1	.....	17396.5
M4185.15	.....	17839.2	M4210	.....	17712	M4241	.....	17600	M4269.25	.....	17396.3
M4185.4	.....	17839.5	M4210.5	.....	17713	M4242	.....	17604	M4269.26	.....	17396.4
M4185.41	.....	17839.6	M4210.8	.....	17643.1	M4242.6	.....	17549	M4269.28	.....	17396.8
M4185.8	.....	17827.8	M4211	.....	17644	M4243	.....	17548	M4269.29	.....	17396.9
M4186	.....	17836	M4211.2	.....	17644.2	M4246	.....	17556	M4269.3	.....	17397
M4186.2	.....	17838	M4211.5	.....	17666	M4246.6	.....	17581	M4269.35	.....	17396.91
M4187	.....	17832	M4212	.....	17672	M4246.65	.....	17581.5	M4269.4	.....	17401
M4187.3	.....	17826	M4212.5	.....	17668	M4247	.....	17560	M4269.5	.....	17400
M4187.4	.....	17825.9	M4212.7	.....	17669	M4247.25	.....	17552	M4269.6	.....	17401.5
M4188	.....	17816	M4212.8	.....	17670	M4247.6	.....	17551.8	M4269.9	.....	17402.1
M4188.3	.....	17817	M4213	.....	17652	M4247.7	.....	17554	M4270	.....	17404
M4188.5	.....	17818	M4213.5	.....	17660	M4248	.....	17576	M4270.1	.....	17407
M4188.7	.....	17817.2	M4214	.....	17664	M4249	.....	17564	M4270.15	.....	17407.5
M4189	.....	17824	M4214.3	.....	17664.1	M4249.2	.....	17568	M4270.2	.....	17408
M4189.5	.....	17820	M4215	.....	17620	M4249.4	.....	17572	M4271	.....	17412
M4189.55	.....	17821	M4215.5	.....	17632	M4249.6	.....	17561	M4272	.....	17420
M4189.6	.....	17825	M4216	.....	17636	M4249.7	.....	17563	M4272.2	.....	17416
M4189.63	.....	17831	M4216.5	.....	17640	M4249.8	.....	17562	M4272.3	.....	17424
M4189.7	.....	17828	M4216.9	.....	17621	M4250	.....	17580	M4272.35	.....	17434
M4189.735	.....	17831.5	M4217	.....	17624	M4252	.....	17481	M4272.36	.....	17435
M4189.74	.....	17829	M4217.3	.....	17622	M4254	.....	17480	M4272.42	.....	17432
M4189.8	.....	17830	M4217.38	.....	17623	M4254.2	.....	17482	M4272.5	.....	17436
M4190	.....	17804	M4217.5	.....	17642	M4254.4	.....	17488	M4272.52	.....	17438
M4190.5	.....	17808	M4217.7	.....	17625	M4254.6	.....	17484	M4272.54	.....	17440
M4190.6	.....	17806	M4217.8	.....	17627.7	M4254.8	.....	17490	M4272.55	.....	17441
M4191	.....	17760	M4218	.....	17628	M4254.9	.....	17489	M4272.57	.....	17448
M4192	.....	17756	M4218.1	.....	17628.5	M4255	.....	17496	M4272.6	.....	17444
M4193	.....	17764	M4218.3	.....	17630	M4255.15	.....	17496.5	M4272.7	.....	17452
M4193.38	.....	17758.5	M4218.35	.....	17630.5	M4255.25	.....	17497	M4272.71	.....	17452.5
M4193.6	.....	17761	M4219.5	.....	17615	M4255.35	.....	17498	M4272.73	.....	17453
M4193.63	.....	17762	M4220	.....	17616	M4255.5	.....	17502	M4272.75	.....	17454
M4193.8	.....	17775	M4222	.....	17696	M4256	.....	17500	M4272.78	.....	17454.5
M4194	.....	17774.5	M4222.1	.....	17679	M4256.2	.....	17500.5	M4272.8	.....	17456
M4195	.....	17774	M4222.5	.....	17678	M4256.3	.....	17500.6	M4272.9	.....	17455
M4196	.....	17772	M4223	.....	17684	M4256.5	.....	17501	M4272.95	.....	17455.5
M4196.5	.....	17776	M4223.3	.....	17682	M4257	.....	17508	M4272.96	.....	17456.1
M4197	.....	17780	M4223.4	.....	17683	M4258	.....	17504	M4272.97	.....	17457
M4198	.....	17788	M4223.5	.....	17688	M4259	.....	17505	M4273	.....	17468
M4198.3	.....	17788.5	M4223.8	.....	17694	M4259.5	.....	17501.2	M4274.2	.....	17462
M4199	.....	17792	M4223.9	.....	17695	M4260	.....	17506	M4274.5	.....	17460
M4204	.....	17800	M4224	.....	17680	M4262	.....	17516	M4274.505	.....	17467
M4205	.....	17802	M4225	.....	17676	M4263	.....	17512	M4274.55	.....	17476.1
M4205.2	.....	17796	M4225.5	.....	17692	M4263.5	.....	17518	M4274.58	.....	17477
M4205.5	.....	17751	M4226	.....	17700	M4263.7	.....	17519	M4274.65	.....	17372
M4206	.....	17748	M4227	.....	17708	M4263.9	.....	17519.5	M4274.7	.....	17368
M4206.1	.....	17749	M4227.2	.....	17709	M4263.92	.....	17519.6	M4274.85	.....	17366.5
M4206.15	.....	17749.5	M4227.4	.....	17710	M4264	.....	17520	M4275	.....	17360

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
M4276	.....	17348	M4298.55	.....	17230.2	M4309.8	.....	17120	M4321.47	.....	17013
M4277	.....	17352	M4298.6	.....	17230.5	M4310	.....	17116	M4321.5	.....	17008
M4277.5	.....	17356	M4298.65	.....	17230.51	M4310.2	.....	17112	M4321.52	.....	17008.5
M4277.8	.....	17344	M4298.66	.....	17230.52	M4310.3	.....	17126	M4321.55	.....	16962
M4277.9	.....	17364	M4298.9	.....	17295	M4310.4	.....	17128	M4321.58	.....	17010
M4278	.....	17532	M4299	.....	17300	M4310.5	.....	17132	M4321.59	.....	17010.5
M4278.15	.....	17531	M4299.2	.....	17298	M4310.52	.....	17135	M4321.6	.....	17036
M4278.16	.....	17320.5	M4299.3	.....	17298.1	M4310.54	.....	17140	M4321.8	.....	16963
M4278.2	.....	17530	M4299.4	.....	17299	M4310.57	.....	17136	M4322	.....	17032
M4278.3	.....	17529	M4299.6	.....	17298.5	M4310.6	.....	17124	M4322.2	.....	17024
M4278.4	.....	17544	M4299.61	.....	17299.1	M4310.63	.....	17123	M4322.3	.....	17028
M4279	.....	17536	M4299.68	.....	17300.5	M4310.65	.....	17173	M4322.4	.....	16960
M4279.3	.....	17540	M4299.72	.....	17227	M4310.66	.....	17173.5	M4322.5	.....	16954
M4279.36	.....	17533.5	M4299.75	.....	17273	M4310.7	.....	17144	M4322.6	.....	16956
M4279.37	.....	17531.5	M4299.8	.....	17274	M4310.72	.....	17170	M4322.65	.....	16956.5
M4279.4	.....	17320	M4300	.....	17280	M4310.74	.....	17171	M4322.7	.....	16868
M4279.45	.....	17322	M4300.2	.....	17280.4	M4310.82	.....	17200.8	M4322.72	.....	16894
M4279.5	.....	17324	M4300.3	.....	17282	M4310.86	.....	17174	M4322.75	.....	16893
M4279.6	.....	17301.5,	M4300.35	.....	17280.5	M4310.88	.....	17174.5	M4322.8	.....	16888
17325			M4300.4	.....	17232	M4310.9	.....	17188	M4322.82	.....	16886.5
M4279.7	.....	17326	M4300.6	.....	17264	M4310.91	.....	17192	M4322.85	.....	16886
M4280	.....	17332	M4301	.....	17284	M4310.94	.....	17196	M4322.87	.....	16887
M4280.5	.....	17328	M4302	.....	17268	M4310.95	.....	17200	M4322.875	.....	16887.1
M4280.75	.....	17305.1	M4302.5	.....	17231.1	M4310.96	.....	17200.2	M4322.9	.....	16884
M4280.8	.....	17305	M4304	.....	17272	M4310.97	.....	17200.5	M4322.95	.....	17016
M4281	.....	17304	M4305	.....	17220	M4311	.....	17056	M4323	.....	16952
M4281.2	.....	17312	M4305.2	.....	17221	M4311.4	.....	17060	M4323.1	.....	16942
M4281.4	.....	17308	M4305.25	.....	17221.2	M4311.6	.....	17048	M4323.6	.....	16920
M4281.55	.....	17302.5	M4305.3	.....	17221.1	M4311.65	.....	17050	M4323.8	.....	16924
M4281.58	.....	17302.1	M4305.36	.....	17219.1	M4311.7	.....	17051	M4324	.....	16892
M4281.6	.....	17302	M4305.4	.....	17219	M4311.73	.....	17058.1	M4325	.....	16908
M4281.65	.....	17303	M4305.43	.....	17218.2	M4311.75	.....	17051.5	M4325.1	.....	16882
M4281.7	.....	17301	M4305.45	.....	17218.1	M4311.8	.....	17046	M4325.4	.....	16911
M4281.8	.....	17306	M4305.5	.....	17218	M4312	.....	17052	M4325.5	.....	16915.7
M4281.9	.....	17307	M4305.6	.....	17222	M4314	.....	17044	M4325.55	.....	16915.5
M4282	.....	17340	M4306	.....	17216	M4315	.....	17040	M4325.7	.....	16914
M4283.4	.....	17336	M4307	.....	17224	M4317	.....	16972	M4325.8	.....	16915
M4283.6	.....	17338	M4307.25	.....	17153	M4317.5	.....	16974	M4325.85	.....	16918.5
M4283.8	.....	17398	M4307.27	.....	17073.1	M4317.7	.....	16975	M4325.9	.....	16918
M4284	.....	17316	M4307.3	.....	17068	M4317.9	.....	16974.6	M4326	.....	16912
M4286	.....	17244	M4307.5	.....	17072	M4318	.....	16976	M4326.3	.....	16929
M4286.5	.....	17251	M4307.7	.....	17074	M4318.2	.....	16974.2	M4326.5	.....	16916
M4287	.....	17252	M4307.8	.....	17075	M4318.4	.....	16974.4	M4326.55	.....	16919
M4290.2	.....	17250	M4308	.....	17064	M4318.5	.....	16977	M4327	.....	16928
M4292	.....	17248	M4308.05	.....	17066	M4319	.....	17000	M4328	.....	16936
M4293	.....	17246	M4308.15	.....	17063	M4319.2	.....	16999	M4329	.....	16932
M4293.5	.....	17243	M4308.2	.....	17080	M4319.5	.....	16978	M4329.5	.....	16881
M4294	.....	17260	M4308.3	.....	17084	M4320.2	.....	16986	M4330	.....	16880
M4294.3	.....	17260.5	M4308.35	.....	17088	M4320.3	.....	16981	M4330.1	.....	16880.5
M4294.5	.....	17240	M4308.4	.....	17156	M4320.35	.....	16981.5	M4330.15	.....	16879.5
M4295	.....	17236	M4308.45	.....	17161	M4320.4	.....	16983.3	M4330.2	.....	16879
M4295.2	.....	17236.1	M4308.5	.....	17160	M4320.42	.....	16983	M4330.3	.....	16879.3
M4295.4	.....	17234.1	M4308.55	.....	17165	M4320.43	.....	16983.1	M4330.4	.....	17863.2
M4295.5	.....	17290	M4308.58	.....	17166	M4320.45	.....	16968	M4330.7	.....	16898
M4295.7	.....	17291	M4308.6	.....	17212	M4320.5	.....	16996	M4330.8	.....	16899
M4296	.....	17292	M4308.72	.....	17148	M4320.6	.....	16988	M4330.9	.....	16904
M4296.8	.....	17233	M4308.74	.....	17152	M4320.61	.....	16992	M4331	.....	16900
M4297	.....	17228	M4308.75	.....	17211	M4321	.....	16964	M4331.15	.....	16886.7
M4297.3	.....	17229.4	M4308.8	.....	17100	M4321.08	.....	16965	M4331.25	.....	16902
M4297.4	.....	17230	M4308.9	.....	17092	M4321.12	.....	16966	M4331.5	.....	16896
M4297.5	.....	17301.6	M4308.94	.....	17096	M4321.13	.....	17001	M4331.515	.....	16887.5
M4297.55	.....	17301.55	M4308.97	.....	17100.5	M4321.2	.....	17004	M4331.55	.....	16876.9
M4297.65	.....	17300.8	M4308.98	.....	17101	M4321.31	.....	17006	M4331.6	.....	16877
M4297.8	.....	17294	M4309	.....	17104	M4321.4	.....	17020	M4331.7	.....	16876
M4298.5	.....	17272.5	M4309.4	.....	17108	M4321.45	.....	17012	M4332	.....	16872

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
M4332.5	.....	16875	M4351.9	.....	16829	M4377.9	.....	16713	M4400	.....	16668
M4333	.....	16874	M4352	.....	16776	M4378	.....	16712	M4401	.....	16665
M4334	.....	16864	M4352.3	.....	16779	M4378.03	.....	16711.95	M4402	.....	16664
M4334.2	.....	16873	M4352.4	.....	16774	M4378.05	.....	16711.94	M4403	.....	16662
M4334.21	.....	16873.1	M4353.5	.....	16772	M4378.1	.....	16711.89	M4403.3	.....	16661.9
M4335	.....	16862	M4353.7	.....	16775.5	M4378.2	.....	16711.9	M4403.5	.....	16661.7
M4336	.....	16860	M4353.8	.....	16773.5	M4379	.....	16704	M4403.8	.....	16661.5
M4337.3	.....	16857	M4353.85	.....	16773.51	M4379.2	.....	16708	M4403.88	.....	16661.4
M4337.4	.....	16857.5	M4353.965	.....	16773	M4379.4	.....	16710	M4403.9	.....	16661.3
M4338	.....	16852	M4354	.....	16768	M4379.45	.....	16710.5	M4404	.....	16656
M4340	.....	16856	M4354.5	.....	16770	M4379.48	.....	16710.6	M4404.6	.....	16654
M4340.3	.....	16848	M4354.7	.....	16769	M4379.5	.....	16711	M4405	.....	16660
M4340.4	.....	16846	M4354.8	.....	16771	M4379.6	.....	16711.3	M4405.5	.....	16661
M4340.45	.....	16847	M4354.81	.....	16763	M4379.65	.....	16711.35	M4406	.....	16652
M4340.5	.....	16840	M4354.82	.....	16763.5	M4379.7	.....	16709	M4408	.....	16643
M4340.6	.....	16844	M4355	.....	16764	M4381	.....	16711.85	M4408.5	.....	16642.5
M4340.7	.....	16836	M4355.4	.....	16760	M4381.12	.....	16706	M4408.55	.....	16642.6
M4340.75	.....	16838	M4355.5	.....	16760.5	M4381.14	.....	16711.6	M4409	.....	16644
M4340.8	.....	16824	M4356	.....	16728	M4381.16	.....	16711.65	M4410	.....	16648
M4340.85	.....	16823	M4356.4	.....	16734	M4381.18	.....	16711.8	M4410.1	.....	16648.6
M4340.9	.....	16830	M4356.5	.....	16735	M4381.19	.....	16705	M4410.2	.....	16648.5
M4340.974	.....	16821.5	M4356.55	.....	16738	M4381.2	.....	16705.1	M4410.5	.....	16616
M4340.975	.....	16931	M4356.58	.....	16739	M4381.3	.....	16690	M4410.52	.....	16614.5
M4340.977	.....	16931.1	M4356.6	.....	16733.1	M4381.301	.....	16690.1	M4410.54	.....	16615
M4340.978	.....	16820.9	M4356.7	.....	16733	M4381.302	.....	16690.2	M4410.6	.....	16614
M4340.979	.....	16820.93	M4356.8	.....	16732.8	M4381.303	.....	16690.3	M4410.65	.....	16615.5
M4340.98	.....	16821	M4356.9	.....	16732.9	M4381.304	.....	16690.4	M4410.8	.....	16613
M4340.983	.....	16821.03	M4357.6	.....	16749	M4381.305	.....	16690.5	M4410.9	.....	16613.5
M4340.984	.....	16821.2	M4357.8	.....	16749.5	M4381.306	.....	16690.6	M4411	.....	16636
M4340.99	.....	16821.1	M4359	.....	16748.5	M4381.307	.....	16690.7	M4411.2	.....	16640
M4341	.....	16828	M4360	.....	16748	M4381.308	.....	16690.8	M4411.4	.....	16626
M4341.4	.....	16832	M4361	.....	16740.2	M4381.36	.....	16691	M4411.41	.....	16627
M4342	.....	16819	M4363	.....	16750	M4381.38	.....	16691.5	M4412	.....	16624
M4342.4	.....	16818	M4365	.....	16751	M4381.4	.....	16692	M4412.5	.....	16632
M4342.5	.....	16817.3	M4366	.....	16752	M4381.5	.....	16696	M4412.6	.....	16628
M4342.51	.....	16817.4	M4368	.....	16756	M4381.6	.....	16696.1	M4412.7	.....	16634
M4342.52	.....	16817.5	M4369	.....	16756.5	M4381.8	.....	16699.5	M4412.72	.....	16633
M4342.53	.....	16817.2	M4369.45	.....	16757	M4382	.....	16700	M4412.8	.....	16642
M4342.54	.....	16817.1	M4374	.....	16732	M4382.5	.....	16698	M4413	.....	16620.5
M4342.7	.....	16822	M4374.05	.....	16727.6	M4382.7	.....	16699	M4413.2	.....	16620
M4343	.....	16808	M4374.051	.....	16727.7	M4383	.....	16702	M4413.4	.....	16621
M4344	.....	16796	M4374.123	.....	16726.5	M4383.2	.....	16702.5	M4413.55	.....	16612.5
M4345	.....	16792	M4374.2	.....	16727	M4385	.....	16688	M4413.58	.....	16612.2
M4345.3	.....	16805	M4374.3	.....	16727.1	M4388	.....	16687	M4413.6	.....	16612
M4346	.....	16804	M4374.4	.....	16724.4	M4389	.....	16686	M4413.625	.....	16611.9
M4347	.....	16800	M4374.5	.....	16725.2	M4390	.....	16684	M4413.63	.....	16611.8
M4347.5	.....	16802	M4374.6	.....	16725.6	M4394	.....	16680	M4413.636	.....	16611.65
M4347.7	.....	16803	M4374.7	.....	16724.8	M4394.5	.....	16683	M4413.638	.....	16611.6
M4348	.....	16816	M4374.8	.....	16725.8	M4395	.....	16682	M4413.65	.....	16611.5
M4348.7	.....	16815.9	M4374.81	.....	16725.9	M4396.5	.....	16680.9	M4413.7	.....	16609
M4348.8	.....	16815	M4375.52	.....	16724.22	M4396.6	.....	16681.2	M4413.75	.....	16610
M4348.9	.....	16815.5	M4375.53	.....	16724.21	M4396.7	.....	16675.5	M4413.8	.....	16611
M4349.2	.....	16813	M4375.6	.....	16724	M4396.8	.....	16675	M4414	.....	16604
M4349.3	.....	16814	M4375.7	.....	16723.5	M4397	.....	16674	M4415	.....	16600
M4350.1	.....	16780.4	M4375.71	.....	16723.51	M4397.1	.....	16673.6	M4417	.....	16596.5
M4350.2	.....	16780.5	M4375.9	.....	16721	M4397.3	.....	16673.5	M4418	.....	16596
M4350.5	.....	16779.7	M4375.95	.....	16722.5	M4397.4	.....	16673	M4419	.....	16595
M4350.6	.....	16779.71	M4375.98	.....	16723	M4397.5	.....	16673.1	M4420	.....	16588
M4350.8	.....	16779.5	M4376	.....	16720	M4397.77	.....	16672.6	M4420.3	.....	16594
M4351	.....	16780	M4376.3	.....	16719	M4397.85	.....	16672.3	M4421	.....	16592
M4351.15	.....	16781.5	M4376.4	.....	16718.6	M4397.86	.....	16672.5	M4424	.....	16584
M4351.3	.....	16783	M4376.6	.....	16718.5	M4398	.....	16672	M4424.5	.....	16597
M4351.4	.....	16782	M4377.53	.....	16716.1	M4398.2	.....	16672.1	M4424.6	.....	16598
M4351.5	.....	16782.1	M4377.6	.....	16714	M4399.2	.....	16672.2	M4426	.....	16572
M4351.8	.....	16778	M4377.7	.....	16716.2	M4399.5	.....	16669	M4427	.....	16574

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
M4428.1	.....	16581	M4455.6	.....	16430	M4510.4	.....	16306	M4739.4	.....	13480
M4430	.....	16580	M4456	.....	16428	M4510.6	.....	16307	M4739.42	.....	13482
M4430.04	.....	16576	M4456.2	.....	16429	M4511.4	.....	16306.1	M4739.47	.....	13476
M4430.2	.....	16571	M4456.5	.....	16424	M4512	.....	16304	M4739.48	.....	13472
M4430.3	.....	16569.7	M4456.8	.....	16423.1	M4512.2	.....	16305	M4739.5	.....	13464
M4430.31	.....	16569.9	M4456.85	.....	16423	M4513	.....	16303	M4739.6	.....	13468
M4430.5	.....	16569	M4456.9	.....	16421	M4514	.....	16301	M4739.7	.....	13466
M4430.8	.....	16569.1	M4456.93	.....	16422	M4514.4	.....	16302	M4739.8	.....	13460
M4430.85	.....	16569.5	M4457	.....	16420	M4516	.....	16284	M4739.85	.....	13462
M4431	.....	16568	M4458	.....	16404	M4520	.....	16296	M4739.88	.....	13463
M4431.2	.....	16566	M4458.1	.....	16406	M4522	.....	16288	M4739.9	.....	13408
M4431.4	.....	16566.2	M4458.15	.....	16416	M4524	.....	16292	M4739.92	.....	13407
M4431.45	.....	16565	M4458.18	.....	16418	M4526	.....	16300	M4740	.....	13412
M4431.5	.....	16564	M4458.2	.....	16414	M4530	.....	16280	M4740.3	.....	13420
M4432	.....	16552	M4458.3	.....	16408	M4531	.....	16277	M4740.4	.....	13422
M4432.6	.....	16556	M4458.4	.....	16409.5	M4532	.....	16278	M4740.6	.....	13414
M4433	.....	16560	M4458.45	.....	16410	M4533	.....	16276.5	M4740.8	.....	13376
M4433.7	.....	16508	M4458.6	.....	16412	M4534	.....	16272	M4740.85	.....	13380
M4433.8	.....	16516	M4458.605	.....	16410.5	M4536	.....	16276	M4740.87	.....	13372
M4433.9	.....	16518	M4458.606	.....	16411	M4540	.....	16252	M4740.9	.....	13372.2
M4434	.....	16500	M4458.63	.....	16396.5	M4542	.....	16260	M4740.95	.....	13374
M4434.2	.....	16504	M4458.64	.....	16397	M4543	.....	16262	M4741.3	.....	13388
M4434.3	.....	16502	M4458.7	.....	16376.7	M4544	.....	16264	M4743	.....	13392
M4434.7	.....	16506	M4459	.....	16380	M4546	.....	16268	M4744	.....	13371
M4434.75	.....	16505	M4459.1	.....	16384	M4547	.....	16269	M4744.8	.....	13382
M4435	.....	16496	M4459.15	.....	16385	M4556	.....	16248	M4745	.....	13404
M4436	.....	16488	M4459.2	.....	16386	M4558	.....	16232	M4745.2	.....	13368.5
M4437	.....	16492	M4459.25	.....	16386.1	M4560.8	.....	16234	M4745.4	.....	13370
M4437.2	.....	16487	M4459.3	.....	16378	M4568	.....	16228	M4746	.....	13368
M4440	.....	16548	M4459.4	.....	16379	M4570	.....	16200	M4747	.....	13365
M4443	.....	16536	M4459.43	.....	16377	M4574	.....	16220	M4748	.....	13364
M4445	.....	16544	M4459.45	.....	16376.5	M4576	.....	16224	M4748.5	.....	13362
M4446.2	.....	16520	M4459.5	.....	16388	M4578	.....	16216	M4749	.....	13360
M4446.4	.....	16541	M4459.54	.....	16396	M4582	.....	16208	M4749.5	.....	13349
M4446.5	.....	16484	M4459.6	.....	16392	M4584	.....	16212	M4750	.....	13352
M4446.6	.....	16480	M4459.65	.....	16387	M4590	.....	16204	M4750.2	.....	13354
M4446.7	.....	16486	M4459.7	.....	16376	M4728	.....	13580	M4750.4	.....	13356
M4446.8	.....	16478	M4459.75	.....	16374	M4728.3	.....	13586	M4750.7	.....	13348
M4447	.....	16464	M4459.9	.....	16369	M4728.4	.....	13576	M4750.84	.....	13336
M4447.5	.....	16463	M4460	.....	16365	M4729	.....	13556	M4752	.....	13316
M4447.51	.....	16463.5	M4460.1	.....	16365.1	M4730	.....	13560	M4752.4	.....	13320
M4448	.....	16466	M4461	.....	16364	M4731	.....	13564	M4753	.....	13324
M4448.4	.....	16467	M4462	.....	16359	M4732	.....	13536	M4754	.....	13308
M4448.5	.....	16469	M4464	.....	16360	M4733	.....	13532	M4754.5	.....	13322
M4449	.....	16456	M4464.5	.....	16362	M4734	.....	13528	M4754.6	.....	13306
M4449.1	.....	16454	M4465	.....	16358	M4734.15	.....	13542	M4754.7	.....	13305
M4449.2	.....	16454.1	M4466	.....	16356	M4734.26	.....	13540	M4754.8	.....	13310
M4449.3	.....	16449	M4468	.....	16352	M4734.3	.....	13544	M4754.9	.....	13310.5
M4449.35	.....	16450	M4472	.....	16332	M4734.4	.....	13548	M4755	.....	13326
M4449.4	.....	16453	M4474	.....	16328	M4734.5	.....	13550	M4757.5	.....	13304.5
M4449.5	.....	16452	M4480	.....	16340	M4734.7	.....	13554	M4758	.....	13284
M4449.6	.....	16451.7	M4484	.....	16348	M4735	.....	13568	M4759	.....	13296
M4449.65	.....	16451.8	M4484.5	.....	16344	M4736	.....	13524	M4759.2	.....	13300
M4449.7	.....	16451.6	M4485	.....	16326	M4737	.....	13516	M4759.25	.....	13300.5
M4449.75	.....	16451.65	M4487	.....	16325	M4737.5	.....	13520	M4759.4	.....	13304
M4449.8	.....	16451	M4488	.....	16324	M4737.7	.....	13513	M4760	.....	13302
M4449.85	.....	16451.5	M4490	.....	16323	M4737.8	.....	13512	M4761.4	.....	13292
M4449.9	.....	16435.1	M4492	.....	16316	M4738	.....	13504	M4761.6	.....	13290
M4450	.....	16436	M4494	.....	16320	M4738.4	.....	13508	M4761.8	.....	13282
M4452	.....	16440	M4495	.....	16322	M4738.5	.....	13506	M4762.2	.....	13272
M4452.5	.....	16444	M4506	.....	16312	M4738.6	.....	13510	M4762.4	.....	13280
M4453	.....	16448	M4506.5	.....	16308.5	M4739	.....	13500	M4762.9	.....	13268
M4455	.....	16432	M4507	.....	16310	M4739.2	.....	13492	M4763	.....	13264
M4455.4	.....	16433	M4508	.....	16309	M4739.37	.....	13490	M4763.2	.....	13266
M4455.5	.....	16431	M4510	.....	16308	M4739.39	.....	13491	M4763.4	.....	13440

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
M4763.44		13444	M4787		12992	M4836		10912	M4904.5		10660
M4763.5		13424	M4787.2		12994	M4837		10908	M4904.6		10644
M4763.52		13428	M4788		13072	M4839		10904	M4904.8		10652
M4763.54		13436	M4790		13064	M4840		10900	M4904.9		10668
M4763.57		13449	M4790.4		13068	M4841.5		10899.1	M4905		10664
M4763.6		13448	M4790.6		13060	M4842		10896	M4905.4		10640
M4763.61		13450	M4790.8		13056	M4842.6		10898	M4906		10632
M4763.64		13452	M4791		13052	M4857		10885	M4907		10636
M4763.7		13432	M4791.2		13048	M4857.5		10884	M4907.5		10638
M4763.8		13244	M4792		13032	M4858		10892	M4908		10624
M4763.9		13246	M4793		13028	M4860		10876	M4908.4		10628
M4764		13248	M4793.5		13024	M4860.2		10880	M4908.6		10630
M4764.4		13252	M4794		13020	M4861		10874	M4909		10620
M4764.41		13256	M4796		13004	M4864		10868	M4909.1		10610
M4764.5		13263	M4797		13008	M4864.4		10872	M4909.2		10612
M4764.7		13262	M4798.4		13012	M4865		10864	M4909.3		10613
M4765		13260	M4798.6		13016	M4866		10860	M4909.4		10614
M4765.05		13261	M4798.8		13002	M4866.4		10856	M4909.6		10616
M4765.2		13240	M4799		13000	M4866.8		10844	M4909.8		10608
M4765.3		13236	M4800		13044	M4867		10848	M4910		10604
M4765.34		13228	M4800.4		13036	M4870		10808	M4912		10464
M4765.35		13232	M4800.6		13040	M4870.5		10820	M4913		10600
M4765.4		13224	M4801		13496	M4870.51		10824	M4913.5		10594
M4765.5		13242	M4802		12988	M4872		10828	M4914		10596
M4765.51		13242.1	M4804		12990	M4873		10832	M4916		10572
M4765.6		13212	M4805		12984	M4873.6		10836	M4917		10576
M4765.8		13216	M4812		11064	M4874		10840	M4917.5		10578
M4766		13220	M4815		11062	M4876		10804	M4918		10580
M4766.5		13196	M4815.3		11056	M4880		10796	M4920		10592
M4766.7		13200	M4817		11060	M4881		10800	M4920.2		10588
M4766.8		13204	M4819		11048	M4882		10784	M4920.4		10584
M4766.81		13208	M4819.5		11044	M4883		10780	M4920.5		10586
M4767		13132	M4820		11024	M4884		10788	M4921		10574
M4767.6		13140	M4820.2		11028	M4884.1		10792	M4922		10524
M4767.8		13134	M4820.6		11040	M4886		10776	M4923		10528
M4767.81		13134.1	M4821		11032	M4887		10768	M4923.3		10526
M4768		13144	M4821.2		11036	M4888		10772	M4924		10532
M4770		13148	M4821.6		10924	M4889		10764	M4927.5		10535
M4770.4		13148.5	M4822		10932	M4889.2		10762	M4928		10536
M4771		13150	M4822.4		10928	M4889.4		10763	M4928.5		10538
M4771.5		13151	M4823		11008	M4890		10760	M4929		10552
M4775		13152	M4823.02		11004	M4892.6		10756	M4930		10548
M4776		13156	M4823.06		11002	M4893		10752	M4938.3		10556
M4778		13168	M4823.12		11000	M4894		10748	M4939		10558
M4780		13172	M4823.2		10996	M4896		10736	M4940		10560
M4780.5		13176	M4823.3		10992	M4896.4		10744	M4941		10564
M4780.6		13180	M4823.4		11016	M4897		10712	M4943		10568
M4780.7		13184	M4823.42		11020	M4898		10716	M4943.5		10570
M4781		13192	M4824		10936	M4898.6		10708	M4944		9316
M4781.5		13188	M4824.5		10937	M4898.7		10740	M4945		9312
M4781.8		13178	M4825		10960	M4899		10724	M4945.5		9310
M4782		13112	M4825.4		10940	M4899.4		10732	M4946		9308
M4782.1		13116	M4825.5		10944	M4899.7		10720	M4946.6		9320
M4782.5		13124	M4826.4		10948	M4900		10688	M4947		9300
M4782.51		13128	M4827		10952	M4900.2		10704	M4947.04		9304
M4782.6		13120	M4827.4		10956	M4900.7		10696	M4947.06		9321
M4782.8		13104	M4828		10964	M4900.8		10700	M4947.08		9322
M4782.9		13108	M4828.2		10968	M4900.94		10692	M4947.09		9338
M4783		13096	M4828.6		10971	M4902		10684	M4947.1		9332
M4784		13100	M4828.7		10972	M4903		10680	M4947.11		9328
M4784.5		13092	M4828.8		10973	M4903.6		10676	M4947.12		9324
M4785		13088	M4831		10980	M4903.7		10672	M4947.15		9336
M4786		13080	M4831.7		10981	M4904		10648	M4947.18		9340
M4786.3		13076	M4834		10920	M4904.2		10650	M4947.19		9341
M4786.6		13084	M4835		10916	M4904.4		10656	M4947.26		9344

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
M4947.3	.....	9342	M5002.6	.....	12896	M5029.5	.....	12934	M5092	.....	11156
M4947.4	.....	9348	M5002.7	.....	12890	M5029.6	.....	12932	M5093	.....	11148
M4947.5	.....	9352	M5002.8	.....	12892	M5030	.....	12924	M5094	.....	11136
M4947.6	.....	9356	M5003	.....	12976	M5032	.....	12912	M5094.25	.....	11146
M4947.7	.....	9364	M5003.5	.....	12894	M5033	.....	12916	M5094.3	.....	11138
M4947.74	.....	9360	M5004	.....	12880	M5033.5	.....	12920	M5094.4	.....	11140
M4947.8	.....	9368	M5005	.....	12884	M5034	.....	12908	M5094.6	.....	11132
M4947.9	.....	9376	M5005.4	.....	12888	M5038	.....	12588	M5095	.....	11164
M4948	.....	9372	M5005.7	.....	12876	M5039	.....	12584	M5096	.....	11168
M4948.4	.....	9380	M5006	.....	12864	M5040	.....	12582	M5097	.....	11169
M4948.6	.....	9384	M5006.4	.....	12868	M5042	.....	12580	M5098	.....	11169.1
M4950	.....	9388	M5006.55	.....	12970	M5047	.....	12564	M5100	.....	11172
M4951	.....	9392	M5007	.....	12968	M5048.5	.....	12568	M5100.2	.....	11180
M4953	.....	9396	M5008	.....	12856	M5050.5	.....	12562	M5101	.....	11176
M4954	.....	9400	M5008.2	.....	12862	M5051	.....	12556	M5101.4	.....	11364
M4954.5	.....	9404	M5008.4	.....	12952	M5051.5	.....	12558	M5102	.....	11184
M4955	.....	9408	M5008.45	.....	12960	M5052	.....	12544	M5103	.....	11188
M4955.5	.....	9412	M5008.6	.....	12956	M5052.5	.....	12540	M5106	.....	11192
M4955.57	.....	9414	M5009	.....	12832	M5053	.....	12548	M5106.2	.....	11363
M4956	.....	9416	M5009.6	.....	12836	M5054	.....	12552	M5106.5	.....	11361
M4962	.....	9421	M5010	.....	12860	M5056	.....	12536	M5107	.....	11362
M4964	.....	9424	M5010.2	.....	12844	M5056.4	.....	12532	M5107.5	.....	11346
M4965	.....	9428	M5010.3	.....	12852	M5056.6	.....	12528	M5109	.....	11360
M4966	.....	9432	M5010.35	.....	12848	M5056.8	.....	12524	M5110.2	.....	11328
M4968	.....	9676	M5010.5	.....	12806	M5056.9	.....	12520	M5112	.....	11324
M4968.4	.....	9680	M5010.6	.....	12804	M5057	.....	12512	M5114	.....	11356
M4968.6	.....	9684	M5011	.....	12792	M5057.4	.....	12516	M5117	.....	11352
M4969	.....	9688	M5011.4	.....	12788	M5057.9	.....	12510	M5118	.....	11344
M4971	.....	9696	M5011.5	.....	12802	M5060	.....	12504	M5120	.....	11340
M4972	.....	9692	M5012	.....	12796	M5060.1	.....	12508	M5126.5	.....	11369
M4974	.....	9700	M5012.4	.....	12800	M5062	.....	12500	M5128	.....	11384
M4974.2	.....	9704	M5012.8	.....	12786	M5065	.....	12492	M5129	.....	11392
M4974.6	.....	9708	M5013	.....	12780	M5066	.....	12490	M5129.05	.....	11394
M4975	.....	9712	M5013.4	.....	12784	M5067	.....	12488	M5129.1	.....	11372
M4975.5	.....	9714	M5014	.....	12776	M5068	.....	12484	M5129.15	.....	11376
M4976.2	.....	9716	M5014.5	.....	12774	M5068.4	.....	12480	M5129.2	.....	11400
M4976.6	.....	9734	M5015	.....	12772	M5069	.....	12476	M5129.25	.....	11380
M4977	.....	9726	M5015.3	.....	12768	M5069.2	.....	12477	M5129.3	.....	11396
M4977.3	.....	9728	M5016	.....	12724	M5069.4	.....	12472	M5129.4	.....	11404
M4978	.....	9720	M5016.4	.....	12740	M5070	.....	12456	M5129.6	.....	11388
M4978.5	.....	9724	M5017.2	.....	12756	M5070.2	.....	12460	M5129.7	.....	11389
M4979	.....	9730	M5017.4	.....	12748	M5070.3	.....	12462	M5129.8	.....	11390
M4981	.....	9738	M5017.5	.....	12750	M5070.5	.....	12468	M5130	.....	11196
M4982	.....	9742	M5017.7	.....	12744	M5071	.....	12600	M5131	.....	11208
M4982.3	.....	9744	M5017.8	.....	12716	M5072	.....	12608	M5132	.....	11200
M4982.5	.....	9736	M5018	.....	12720	M5073	.....	12604	M5133	.....	11204
M4983	.....	9746	M5020	.....	12760	M5073.2	.....	12612	M5134	.....	11212
M4984	.....	9750	M5021	.....	12730	M5073.3	.....	12614	M5136.4	.....	11224
M4985	.....	9754	M5022	.....	12732	M5073.4	.....	12616	M5136.7	.....	11228
M4985.5	.....	9756	M5024	.....	12736	M5073.6	.....	12622	M5137	.....	11232
M4986	.....	9758	M5025	.....	12728	M5073.7	.....	12620	M5137.4	.....	11236
M4992	.....	11096	M5025.5	.....	12729	M5074	.....	12596	M5137.47	.....	11240
M4994	.....	11100	M5026	.....	12764	M5074.6	.....	12590	M5137.48	.....	11242
M4994.2	.....	11094	M5026.6	.....	12808	M5076	.....	12440	M5137.5	.....	11244
M4994.4	.....	11092	M5027	.....	12812	M5078	.....	12446	M5137.6	.....	11256
M4994.6	.....	11088	M5027.4	.....	12816	M5078.1	.....	12447	M5137.7	.....	11254
M4994.7	.....	11084	M5027.6	.....	12820	M5080	.....	11068	M5137.8	.....	11248
M4994.8	.....	11112	M5028	.....	12824	M5082	.....	11076	M5138	.....	11410
M4995	.....	11108	M5028.4	.....	12828	M5083	.....	11072	M5138.4	.....	11412
M4996	.....	11104	M5028.6	.....	12972	M5084	.....	11080	M5138.5	.....	11260
M4996.4	.....	11152	M5028.8	.....	12974	M5087	.....	11124	M5138.6	.....	11264
M4997	.....	11160	M5029	.....	12948	M5087.5	.....	11126	M5138.8	.....	11268
M4998	.....	12980	M5029.2	.....	12940	M5088	.....	11120	M5138.85	.....	11270
M5002	.....	12904	M5029.21	.....	12944	M5090	.....	11116	M5138.9	.....	11269
M5002.4	.....	12900	M5029.4	.....	12936	M5091	.....	11128	M5138.95	.....	11279

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
M5139		11276	M5172		11604	M5193.42		11784	M5242.4		12020
M5139.2		11278	M5172.4		11608	M5193.6		11788	M5242.6		12016
M5139.5		11276.5	M5172.7		11612	M5193.7		11800	M5244		12032
M5140		11280	M5173.2		11616	M5193.8		11804	M5245		12024
M5140.2		11284	M5174		11628	M5193.95		11798	M5245.5		12034
M5140.4		11288	M5174.4		11632	M5194		11792	M5246		12036
M5140.5		11292	M5175		11636	M5195		11796	M5246.5		12038
M5140.55		11294	M5175.3		11640	M5195.5		11808	M5248		12048
M5140.6		11296	M5175.5		11705	M5197		11816	M5248.2		12044
M5140.8		11300	M5175.8		11704	M5198.4		11820	M5250		12052
M5141		11312	M5175.85		11706	M5198.8		11812	M5250.4		12064
M5141.2		11316	M5175.9		11708	M5199		11828	M5250.6		12040
M5141.3		11512	M5176.5		11688	M5200		11826	M5250.8		12056
M5141.4		11516	M5176.7		11692	M5201		11836	M5250.9		12060
M5141.5		11520	M5176.8		11696	M5202		11834	M5251		12076
M5141.6		11320	M5176.85		11700	M5202.3		11835	M5251.5		12075
M5142		11308	M5177		11660	M5202.5		11833	M5252		12072
M5142.4		11304	M5177.2		11664	M5202.51		11833.1	M5253		12068
M5143		11556	M5177.22		11698	M5203		11832	M5253.2		12070
M5143.2		11564	M5177.24		11699	M5204		11864	M5253.4		12080
M5143.7		11322	M5177.4		11668	M5207		11840	M5254		12084
M5143.8		11416	M5177.41		11672	M5207.6		11856	M5254.5		12092
M5143.9		11420	M5177.5		11676	M5208		11852	M5254.6		12096
M5144		11424	M5177.6		11680	M5208.4		11848	M5254.8		12100
M5144.45		11426	M5177.8		11684	M5209		11844	M5254.86		12104
M5144.5		11436	M5178.5		11656	M5209.2		11859	M5254.9		12156
M5145		11440	M5179		11644	M5209.3		11859.5	M5254.91		12157
M5146		11448	M5179.04		11648	M5209.5		11860	M5254.95		12088
M5146.2		11441	M5179.1		11652	M5210		11872	M5254.97		12090
M5146.25		11443.5	M5179.2		11624	M5211		11900	M5255		12108
M5146.26		11443.1	M5179.6		11620	M5213		11870	M5255.05		12118
M5146.27		11440.5	M5179.65		11622	M5216		11880	M5255.06		12118.1
M5146.28		11443	M5179.7		11610	M5216.1		11884	M5255.07		12118.2
M5146.4		11444	M5179.75		11609	M5225		11904	M5255.1		12124
M5147		11452	M5179.8		11568	M5226		11908	M5255.22		12112
M5147.4		11456	M5180		11572	M5230		11912	M5255.23		12120
M5148		11460	M5181		11580	M5232		11920	M5255.24		12116
M5149		11464	M5182		11576	M5232.4		11916	M5255.3		12136
M5149.4		11468	M5182.2		11709.2	M5233		11868	M5255.35		12154
M5150		11472	M5182.5		11584	M5236		11928	M5255.4		12144
M5150.4		11476	M5182.8		11709	M5236.5		11924	M5255.5		12152
M5150.6		11480	M5183		11524	M5236.7		11921	M5255.7		12148
M5151		11484	M5183.2		11709.8	M5236.8		11922	M5256		12160
M5152		11488	M5183.5		11710	M5236.9		11923	M5257		12168
M5152.3		11494	M5184		11712	M5238		12004	M5257.1		12172
M5152.5		11500	M5186		11716	M5239		12008	M5257.4		12176
M5153		11496	M5187.2		11716.1	M5239.1		12000	M5258		12704
M5154		11438	M5187.3		11728	M5239.15		12010	M5259		12624
M5154.4		11492	M5187.4		11732	M5239.5		12012	M5259.2		12628
M5154.6		11504	M5187.5		11730	M5239.55		12014	M5259.27		12689
M5154.7		11536	M5187.55		11729	M5239.6		11994	M5259.29		12689.1
M5154.8		11508	M5187.6		11736	M5239.7		11992	M5259.3		12688
M5155.1		11274	M5187.64		11752	M5239.8		11988	M5259.32		12630
M5156		11528	M5187.67		11754	M5240		11984	M5259.34		12632
M5157		11532	M5188		11740	M5240.4		11960	M5259.38		12636
M5158		11540	M5188.3		11744	M5240.43		11964	M5259.4		12660
M5159		11542	M5189		11748	M5240.44		11957	M5259.45		12638
M5160		11544	M5189.4		11756	M5240.46		11976	M5259.6		12644
M5162		11548	M5191		11760	M5240.48		11956	M5259.61		12648
M5164		11552	M5191.4		11749	M5240.6		11956.5	M5260		12640
M5165		11560	M5192		11764	M5240.65		11956.7	M5260.2		12641
M5167		11588	M5193		11768	M5240.7		11958	M5260.4		12664
M5168		11592	M5193.2		11772	M5241		11972	M5260.8		12670
M5170		11596	M5193.3		11776	M5242.1		11980	M5261		12668
M5171		11600	M5193.4		11780	M5242.2		11968	M5261.2		12680

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Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
M5261.3	12676	M5284	12336	M5355	9774	M5413	9228
M5261.4	.....	12672	M5284.4	.....	12332	M5355.2	.....	9792	M5414	.....	9160
M5261.45	.....	12684	M5285	.....	12416	M5356	.....	9778	M5415	.....	9224
M5261.5	.....	12692	M5286	.....	12420	M5356.1	.....	9782	M5418	.....	9156
M5261.7	.....	12696	M5288	.....	12392	M5358	.....	9770	M5418.5	.....	9152
M5261.72	.....	12690	M5289	.....	12396	M5360	.....	9762	M5424	.....	9296
M5261.74	.....	12700	M5289.2	.....	12400	M5366	.....	9672	M5426	.....	9292
M5261.8	.....	12698	M5289.8	.....	12404	M5372	.....	9668	M5427	.....	9288
M5261.9	.....	12712	M5290	.....	12412	M5376	.....	9664	M5427.5	.....	9284
M5262	.....	12276	M5291	.....	12408	M5380	.....	9656	M5427.8	.....	9280
M5263	.....	12452	M5291.4	.....	12424	M5380.1	.....	9660	M5428	.....	9272
M5265	.....	12220	M5291.5	.....	12428	M5382	.....	9640	M5429	.....	9276
M5265.4	.....	12192	M5291.6	.....	12432	M5386	.....	9636	M5430	.....	9270
M5265.6	.....	12184	M5292	.....	12436	M5387	.....	9648	M5430.5	.....	9268
M5265.65	.....	12188	M5293	.....	12438	M5387.3	.....	9652	M5431	.....	9264
M5265.8	.....	12216	M5295	.....	12439	M5387.5	.....	9632	M5432	.....	9260
M5266	.....	12228	M5295.5	.....	12439.5	M5388	.....	9628	M5432.6	.....	9252
M5266.2	.....	12224	M5297	.....	9912	M5389	.....	9624	M5432.8	.....	9256
M5266.3	.....	12208	M5300	.....	9888	M5390	.....	9608	M5432.9	.....	9246
M5266.35	.....	12212	M5300.1	.....	9892	M5390.4	.....	9612	M5432.95	.....	9247
M5266.4	.....	12204	M5301	.....	9896	M5390.45	.....	9616	M5433	.....	9248
M5266.45	.....	12193.5	M5301.1	.....	9900	M5390.6	.....	9604	M5433.8	.....	9240
M5266.5	.....	12194	M5302	.....	9880	M5391.4	.....	9596	M5434	.....	9244
M5267	.....	12196	M5312	.....	9766	M5392	.....	9592	M5435	.....	9236
M5268	.....	12180	M5322	.....	1548	M5393	.....	9588	M5436	.....	9128
M5269	.....	12240	M5323	.....	1550	M5394	.....	9584	M5437	.....	8812
M5269.02	.....	12232	M5324	.....	9962	M5394.5	.....	9580	M5439	.....	8810
M5269.04	.....	12236	M5324.4	.....	9962.2	M5396	.....	9577	M5439.4	.....	8808
M5269.06	.....	12244	M5324.5	.....	9962.4	M5397	.....	9574	M5439.8	.....	8806
M5269.2	.....	12256	M5324.7	.....	9962.6	M5397.5	.....	9512.3	M5441	.....	8804
M5269.22	.....	12252	M5324.8	.....	9962.8	M5398.5	.....	9512	M5442	.....	8800
M5269.24	.....	12248	M5326	.....	9952	M5399	.....	9516	M5444	.....	8796
M5269.3	.....	12254	M5327	.....	9956	M5400	.....	9520	M5445	.....	8896
M5269.5	.....	12260	M5327.2	.....	9954	M5400.3	.....	9532	M5446	.....	8790
M5269.55	.....	12262	M5327.6	.....	9953	M5400.4	.....	9528	M5447	.....	8792
M5269.6	.....	12272	M5328	.....	9960	M5400.5	.....	9524	M5448	.....	8788
M5269.62	.....	12268	M5329	.....	1544	M5400.8	.....	9568	M5450	.....	8772
M5269.7	.....	12264	M5330	.....	1540	M5400.81	.....	9572	M5451	.....	8768
M5269.8	.....	12280	M5332	.....	9948	M5401	.....	9556	M5452	.....	8764
M5269.9	.....	12296	M5334	.....	9944	M5401.6	.....	9544	M5454	.....	8760
M5269.92	.....	12292	M5334.2	.....	9946	M5402.5	.....	9548	M5456	.....	8716
M5269.94	.....	12288	M5334.5	.....	9942	M5402.51	.....	9552	M5456.1	.....	8720
M5269.95	.....	12283	M5335.2	.....	9924.5	M5404	.....	9536	M5458	.....	8744
M5269.96	.....	12284	M5335.4	.....	9928	M5404.4	.....	9508	M5459.3	.....	8748
M5270	.....	12304	M5337	.....	9932	M5404.5	.....	9496	M5459.4	.....	8752
M5270.15	.....	12286	M5337.1	.....	9936	M5404.7	.....	9500	M5459.44	.....	8756
M5270.2	.....	12300	M5338.4	.....	9864	M5404.8	.....	9504	M5459.7	.....	8736
M5270.3	.....	12312	M5339	.....	9860	M5405	.....	9488	M5460	.....	8732
M5270.4	.....	12308	M5340	.....	9836	M5405.2	.....	9494	M5461	.....	8740
M5270.6	.....	12328	M5340.1	.....	9840	M5405.4	.....	9492	M5462	.....	8724
M5271	.....	12316	M5340.3	.....	9820	M5406	.....	9484	M5463	.....	8728
M5272	.....	12320	M5340.31	.....	9824	M5406.2	.....	9486	M5464	.....	8712
M5272.4	.....	12324	M5340.6	.....	9804	M5406.5	.....	9472	M5467	.....	8700
M5273	.....	12340	M5340.61	.....	9808	M5406.55	.....	9474	M5468	.....	8704
M5274.5	.....	12338	M5343	.....	9872	M5406.7	.....	9476	M5468.5	.....	8708
M5275	.....	12348	M5343.4	.....	9876	M5406.8	.....	9480	M5470	.....	8692
M5275.2	.....	12346	M5343.7	.....	9868	M5407	.....	9464	M5470.3	.....	8696
M5275.4	.....	12352	M5344	.....	9848	M5407.4	.....	9460	M5470.5	.....	8688
M5276	.....	12344	M5344.1	.....	9852	M5408	.....	9456	M5470.6	.....	8687
M5279	.....	12356	M5345	.....	9844	M5408.5	.....	9468	M5470.7	.....	8676
M5280	.....	12372	M5347	.....	9816	M5409	.....	9444	M5470.71	.....	8680
M5282	.....	12360	M5351	.....	9794	M5409.1	.....	9448	M5471	.....	8672
M5282.4	.....	12368	M5352	.....	9788	M5409.4	.....	9452	M5472	.....	8656
M5282.5	12364	M5353	9786	M5410	9232	M5473	8660
M5283	12390	M5354	9790	M5412	9164	M5474.8	8682

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Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
M5475		8684	M5538.7		8150	M5562		7108	M5594.8		10160
M5475.2		8686.5	M5539		8160	M5564		7092	M5595		10156
M5475.4		8686	M5539.2		8156	M5565		7096	M5595.2		10150
M5475.5		8654	M5539.25		8155	M5565.4		7100	M5595.25		10151
M5475.7		8542	M5539.5		8206	M5568		7080	M5595.3		10154
M5476		8564	M5539.6		8205	M5570		7184	M5595.6		10172
M5476.5		8566	M5540		8204	M5570.2		7188	M5595.7		10176
M5477		8568	M5540.6		8196	M5570.5		7192	M5595.74		10180
M5477.5		8577	M5540.8		8164	M5570.8		7078	M5595.8		10184
M5478		8572	M5540.9		8168	M5571		7076	M5596.2		10192
M5479		8576	M5541		8172	M5572		7072	M5596.25		10190
M5479.5		8582	M5541.6		8176	M5572.5		7066	M5596.3		10188
M5479.8		8583	M5542.12		8188	M5574		7068	M5596.4		10196
M5480		8584	M5545		8136	M5575		7064	M5596.44		10200
M5480.4		8588	M5545.6		8128	M5575.4		7060	M5596.46		10198
M5481		8580	M5546		8132	M5575.6		7056	M5596.5		10204
M5481.5		8578	M5546.5		8124	M5576		7044	M5596.6		10208
M5482		8384	M5546.8		8120	M5576.4		7048	M5596.7		10210
M5483		8624	M5547		7916	M5577		7052	M5597		10212
M5484		8620	M5547.4		7920	M5577.06		9964	M5598		10224
M5484.4		8653	M5547.5		7912	M5577.1		9983	M5598.1		10216
M5484.6		8647	M5547.55		7904	M5577.15		9984	M5598.15		10220
M5484.65		8648	M5547.6		7908	M5577.2		9988	M5598.25		10234
M5488		8640	M5547.8		7900	M5578.5		10000	M5598.3		10228
M5488.5		8645	M5548		7896	M5578.6		10012	M5598.5		10252
M5490		8636	M5549		7928	M5578.8		10004	M5598.7		10256
M5494		8608	M5549.2		7924	M5579.4		10016	M5599		10236
M5495		8612	M5549.3		7922	M5579.6		10024	M5599.2		10240
M5496		8616	M5549.5		8033	M5579.7		10028	M5599.3		10248
M5497		8600	M5549.55		8034	M5581		10032	M5599.4		10244
M5497.6		8596	M5549.6		8032	M5581.1		10036	M5599.6		10246
M5498		8592	M5549.7		8030	M5581.2		10040	M5600		10260
M5499		8376	M5549.9		8119	M5581.4		10044	M5600.2		10258
M5499.9		8380.5	M5549.95		8031.5	M5581.6		10048	M5601		10264
M5500		8380	M5550		8031	M5581.8		10052	M5601.3		10266
M5500.5		8386	M5550.2		8024	M5584		10056	M5601.6		10276
M5501		8372	M5550.3		8028	M5584.3		10060	M5601.7		10273
M5502		8252	M5550.5		8008	M5585		10064	M5601.8		10272
M5502.5		8264	M5550.6		8016	M5585.3		10065	M5601.9		10270
M5502.7		8268	M5550.7		8012	M5585.5		10068	M5602		10284
M5503		8248	M5550.8		8004	M5585.6		10072	M5602.4		10286
M5503.5		8244	M5550.85		8000	M5585.65		10066	M5603		10288
M5504		8240	M5550.9		7996	M5585.7		10080	M5604		10296
M5504.5		8236	M5551		7994	M5585.8		10076	M5605		10304
M5505		8260	M5551.3		7988	M5586		10084	M5606		10308
M5506		8232	M5551.5		7168	M5587		10088	M5607.3		10292
M5507		8228	M5551.6		7988.5	M5587.2		10092	M5607.4		10301
M5507.5		8310	M5551.75		7164	M5587.3		10096	M5607.5		10310
M5508		8368	M5551.8		7144	M5587.4		10098	M5608		10312
M5509		8364	M5552		7148	M5589		10100	M5608.4		10316
M5512		8352, 8356	M5552.4		7152	M5590		10104	M5608.7		10320
M5515		8348	M5552.41		7156	M5591		10108	M5609		10340
M5518		8344	M5552.5		7158	M5592.2		10112	M5609.5		10336
M5520.8		8340	M5552.55		7162	M5592.3		10116	M5609.7		10328
M5521.5		8336	M5552.6		7160	M5592.4		10118	M5610		10332
M5524		8320	M5553		7136	M5592.5		10120	M5610.12		10324
M5525		8324	M5553.4		7140	M5592.55		10124	M5610.17		10330
M5525.1		8328	M5554		7132	M5592.6		10128	M5610.2		10520
M5530		8332	M5555		7088	M5592.8		10132	M5610.4		10516
M5533		8216	M5555.4		7084	M5593		10136	M5610.5		10512
M5534		8220	M5556		7120	M5593.2		10140	M5611		10504
M5535		8212	M5557		7118	M5593.3		10142	M5611.2		10508
M5536		8208	M5559		7116	M5593.4		10144	M5611.3		10500
M5538		8144	M5560		7112	M5593.5		10148	M5611.4		10496
M5538.6		8152	M5561		7104	M5594		10152	M5612		10492

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
M5612.1	.....	10488	M5650	.....	9176	M5691	.....	8996	M5724.6	.....	8560
M5612.14	.....	10484	M5651	.....	9180	M5692	.....	9052	M5724.8	.....	8556
M5612.2	.....	10480	M5651.2	.....	8902	M5692.5	.....	9050	M5724.9	.....	8450
M5612.3	.....	10476	M5651.3	.....	8900	M5692.7	.....	9054	M5725	.....	8444
M5612.5	.....	10472	M5651.6	.....	9136	M5693	.....	9056	M5725.4	.....	8448
M5613	.....	10468	M5651.7	.....	9132	M5694	.....	9060	M5726	.....	8440
M5614	.....	10456	M5651.75	.....	9130	M5694.1	.....	9064	M5727	.....	8436
M5614.1	.....	10452	M5651.8	.....	8780	M5694.5	.....	9068	M5728	.....	8460
M5614.2	.....	10444	M5652	.....	8776	M5695	.....	8888	M5728.5	.....	8424
M5614.3	.....	10448	M5652.5	.....	8778	M5695.5	.....	8886	M5728.7	.....	8428
M5614.34	.....	10440	M5653	.....	8784	M5695.56	.....	8890	M5729	.....	8420
M5614.4	.....	10420	M5654	.....	8904	M5695.6	.....	8876	M5729.4	.....	8412
M5614.5	.....	10436	M5654.5	.....	8914	M5695.7	.....	8872	M5729.5	.....	8410
M5614.8	.....	10432	M5655	.....	8912	M5695.8	.....	8868	M5729.6	.....	8416
M5614.9	.....	10430	M5656	.....	8908	M5696	.....	8892	M5729.7	.....	8404
M5615	.....	10428	M5657	.....	9108	M5696.4	.....	8864	M5729.71	.....	8408
M5615.6	.....	10424	M5658	.....	9100	M5697	.....	8848	M5729.8	.....	8396
M5616	.....	10416	M5659	.....	9104	M5697.1	.....	8852	M5729.81	.....	8400
M5616.2	.....	10368	M5660	.....	9102	M5697.2	.....	8856	M5729.9	.....	8393
M5616.4	.....	10360	M5662	.....	8920	M5697.4	.....	8860	M5730	.....	8392
M5618	.....	10356	M5663	.....	9096	M5697.5	.....	8840	M5731	.....	8388
M5618.2	.....	10358	M5664	.....	8916	M5697.6	.....	8844	M5731.2	.....	8388.5
M5619	.....	10344	M5664.4	.....	9092	M5697.7	.....	8846	M5731.4	.....	8316
M5619.2	.....	10348	M5664.7	.....	9088	M5697.8	.....	8880	M5731.7	.....	8312
M5619.4	.....	10412	M5665.5	.....	9080	M5697.9	.....	8834	M5731.8	.....	8308
M5620	.....	10408	M5666	.....	9076	M5698	.....	8836	M5731.85	.....	8306
M5621	.....	10352	M5666.5	.....	9072	M5698.4	.....	8828	M5731.9	.....	8304
M5621.4	.....	10404	M5668	.....	8924	M5699	.....	8832	M5732	.....	8300
M5622	.....	10400	M5669	.....	8956	M5699.4	.....	8830	M5732.02	.....	8296
M5622.4	.....	10392	M5670	.....	8958	M5700	.....	8524	M5732.04	.....	8288
M5622.5	.....	10396	M5671	.....	8952	M5700.5	.....	8746	M5732.08	.....	8292
M5622.7	.....	10388	M5675.4	.....	8948	M5702	.....	8520	M5732.11	.....	8294
M5623	.....	10372	M5675.6	.....	8949	M5703	.....	8516	M5732.15	.....	8284
M5623.4	.....	10376	M5675.7	.....	8944	M5706	.....	8512	M5732.17	.....	8181
M5623.5	.....	10378	M5676	.....	9048	M5708	.....	8820	M5732.19	.....	8283
M5623.6	.....	10380	M5676.4	.....	9044	M5709	.....	8822	M5732.2	.....	8274
M5624.5	.....	10384	M5677	.....	9040	M5710	.....	8816	M5732.23	.....	8282
M5625	.....	10466	M5677.2	.....	8932	M5710.6	.....	8824	M5732.3	.....	8280
M5625.2	.....	10465.5	M5677.4	.....	8928	M5710.8	.....	8528	M5732.7	.....	8276
M5625.6	.....	10465	M5678	.....	8936	M5711.2	.....	8536	M5733	.....	8272
M5626	.....	9436	M5678.4	.....	8940	M5711.4	.....	8540	M5734	.....	8256
M5626.2	.....	9440	M5678.6	.....	8977	M5711.5	.....	8544	M5735	.....	8118
M5627	.....	9220	M5679	.....	8964	M5711.6	.....	8548	M5737	.....	8114
M5628	.....	9216	M5680	.....	8980	M5711.8	.....	8550	M5737.5	.....	8110
M5632	.....	9120	M5680.4	.....	8988	M5712	.....	8504	M5737.7	.....	8102
M5634	.....	9124	M5680.6	.....	8968	M5713	.....	8500	M5737.8	.....	8106
M5634.5	.....	9116	M5680.8	.....	8972	M5714	.....	8496	M5738	.....	8098
M5636	.....	9112	M5680.9	.....	8976	M5715	.....	8492	M5739	.....	8086
M5638	.....	9110	M5680.95	.....	8978	M5715.5	.....	8490	M5740	.....	8082
M5639	.....	9212	M5681	.....	8984	M5716	.....	8488	M5741.7	.....	8072
M5639.2	.....	9210	M5681.2	.....	9036	M5717.4	.....	8484	M5743	.....	8078
M5639.4	.....	9208	M5681.4	.....	9034	M5718	.....	8480	M5744	.....	8090
M5640	.....	9200	M5683	.....	9028	M5718.5	.....	8479	M5746	.....	8094
M5641	.....	9202	M5684	.....	9024	M5719	.....	8476	M5747	.....	8074
M5642	.....	9204	M5684.2	.....	9023	M5719.5	.....	8478	M5747.6	.....	8064
M5644	.....	9148	M5684.4	.....	9023.5	M5720	.....	8472	M5748	.....	8070
M5644.4	.....	9144	M5685	.....	9022	M5721	.....	8526	M5748.3	.....	8060
M5645	.....	9140	M5686	.....	9020	M5722	.....	8452	M5748.5	.....	8058
M5645.4	.....	9192	M5687	.....	9004	M5723	.....	8456	M5748.6	.....	8040
M5645.6	.....	9196	M5687.1	.....	9005	M5723.3	.....	8474	M5749	.....	8048
M5646	.....	9188	M5687.4	.....	9012	M5723.4	.....	8458	M5750	.....	8044
M5646.5	.....	9184	M5687.5	.....	9008	M5723.7	.....	8450.5	M5751	.....	8052
M5646.7	.....	9186	M5688.4	.....	8994	M5724	.....	8468	M5751.2	.....	8056
M5647	.....	9168	M5689	.....	8992	M5724.2	.....	8552	M5751.4	.....	8036
M5649	.....	9172	M5690	.....	9000	M5724.4	.....	8464	M5751.5	.....	8038

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
M5751.6	.....	7856	M5784	.....	7660	M5862	.....	7456	M5961.6	.....	7036
M5751.8	.....	7848	M5785	.....	7656	M5864.63	.....	7412	M5961.8	.....	7034
M5752	.....	7852	M5796	.....	7648	M5865	.....	7414	M5962.4	.....	7024
M5752.2	.....	7844	M5797	.....	7936	M5865.51	.....	7415	M5963	.....	7028
M5752.4	.....	7840	M5798.4	.....	7940	M5865.52	.....	7415.5	M5964	.....	7032
M5753	.....	7836	M5798.6	.....	7944	M5866	.....	7416	M5965	.....	7018
M5753.3	.....	7832	M5798.8	.....	7946	M5866.3	.....	7420	M5965.05	.....	7016
M5754	.....	7828	M5799	.....	7948	M5867	.....	7424	M5965.12	.....	7012
M5754.5	.....	7824	M5799.5	.....	7956	M5867.2	.....	7428	M5965.2	.....	7008
M5754.7	.....	7822	M5800	.....	7952	M5868	.....	7452	M5966	.....	7000
M5754.85	.....	7826	M5802	.....	7960	M5870	.....	7436	M5966.2	.....	7004
M5755	.....	7820	M5803	.....	7964	M5872	.....	7448	M5966.5	.....	6980
M5755.3	.....	7816	M5804	.....	7968	M5886	.....	7404	M5966.62	.....	6976
M5755.6	.....	7800	M5806	.....	7972	M5894	.....	7384	M5966.8	.....	6988
M5756	.....	7804	M5809	.....	7980	M5899	.....	7400	M5967	.....	6984
M5756.1	.....	7806	M5809.2	.....	7976	M5899.2	.....	7430	M5967.2	.....	6992
M5756.2	.....	7808	M5811	.....	7984	M5899.3	.....	7402	M5967.3	.....	6996
M5756.21	.....	7812	M5811.4	.....	7172	M5899.5	.....	7398	M5967.35	.....	6972
M5756.6	.....	7792	M5812	.....	7176	M5906	.....	7332	M5967.4	.....	6968
M5756.61	.....	7796	M5814	.....	7180	M5907	.....	7336	M5967.5	.....	6964
M5756.7	.....	7780	M5814.2	.....	7182	M5920	.....	7344	M5967.8	.....	6960
M5756.8	.....	7784	M5814.25	.....	7183	M5932	.....	7348	M5967.82	.....	6958
M5757	.....	7892	M5814.3	.....	7196	M5939	.....	7312	M5967.84	.....	6956
M5757.3	.....	7888	M5814.6	.....	7516	M5939.4	.....	7316	M5967.9	.....	6954
M5757.4	.....	7884	M5815	.....	7520	M5939.6	.....	7310	M5968	.....	6952
M5757.41	.....	7880.5	M5815.5	.....	7524	M5939.7	.....	7296	M5968.3	.....	6948
M5757.45	.....	7885	M5816	.....	7528	M5939.8	.....	7292	M5968.4	.....	6950
M5757.5	.....	7886	M5818.4	.....	7536	M5940	.....	7304	M5968.5	.....	6946
M5757.6	.....	7880	M5819.5	.....	7548	M5945	.....	7308	M5968.6	.....	6944
M5757.8	.....	7872	M5821	.....	7592	M5950	.....	7284	M5969.08	.....	6932
M5757.9	.....	7876	M5822	.....	7596	M5951	.....	7288	M5969.2	.....	6924
M5758	.....	7868	M5822.12	.....	7600	M5952	.....	7289	M5969.21	.....	6928
M5758.4	.....	7864	M5822.16	.....	7604	M5952.1	.....	7289.1	M5969.3	.....	6936
M5759.6	.....	7776	M5822.22	.....	7610	M5953	.....	7280	M5969.31	.....	6940
M5759.7	.....	7772	M5822.3	.....	7612	M5953.6	.....	7272	M5969.4	.....	6912
M5760	.....	7768	M5822.4	.....	7616	M5953.7	.....	7271.9	M5969.6	.....	6904
M5761	.....	7764	M5822.5	.....	7618	M5953.75	.....	7271.95	M5969.7	.....	6908
M5762	.....	7752	M5822.6	.....	7620	M5954	.....	7271	M5970	.....	6900
M5763.3	.....	7790	M5822.8	.....	7624	M5955	.....	7260	M5974	.....	6888
M5763.5	.....	7756	M5823	.....	7626	M5955.04	.....	7264	M5974.5	.....	6892
M5763.6	.....	7760	M5828	.....	7628	M5955.06	.....	7250	M5975	.....	6896
M5764	.....	7748	M5829	.....	7632	M5955.2	.....	7268	M5977	.....	6884
M5764.6	.....	7740	M5834	.....	7640	M5955.3	.....	7242	M5977.4	.....	6880
M5764.8	.....	7744	M5834.2	.....	7644	M5955.5	.....	7248	M5977.6	.....	6840
M5766	.....	7732	M5836	.....	7650	M5956.2	.....	7244	M5977.7	.....	6836
M5766.3	.....	7728	M5836.2	.....	7650.5	M5956.25	.....	7256	M5978	.....	6832
M5766.5	.....	7736	M5836.4	.....	7651	M5956.4	.....	7252	M5979	.....	6828
M5767	.....	7726	M5836.6	.....	7651.5	M5957.2	.....	7240	M5980	.....	6844
M5768	.....	7860	M5838.6	.....	7504	M5957.4	.....	7236	M5980.4	.....	6852
M5769	.....	7724	M5838.7	.....	7508	M5957.5	.....	7234	M5980.61	.....	6860
M5770	.....	7716	M5840	.....	7500	M5957.52	.....	7235	M5980.8	.....	6858
M5771	.....	7720	M5842.4	.....	7496	M5957.6	.....	7239	M5980.9	.....	6848
M5771.6	.....	7712	M5843	.....	7492	M5957.61	.....	7233	M5981	.....	6864
M5772	.....	7708	M5843.1	.....	7494	M5957.64	.....	7233.5	M5981.1	.....	6868
M5772.5	.....	7704	M5843.2	.....	7491	M5957.65	.....	7238	M5981.6	.....	6872
M5773	.....	7700	M5844	.....	7488	M5957.69	.....	7230.3	M5981.7	.....	6850
M5774	.....	7684	M5848	.....	7482	M5957.7	.....	7230.6	M5981.8	.....	6876
M5774.4	.....	7680	M5852	.....	7476	M5957.8	.....	7229	M5984	.....	6824
M5775	.....	7692	M5854	.....	7408	M5958	.....	7212	M5986	.....	6820
M5776	.....	7688	M5857	.....	7472	M5958.2	.....	7224	M5987	.....	6816
M5781	.....	7672	M5857.5	.....	7472.5	M5959	.....	7204	M5988	.....	6808
M5782	.....	7668	M5860	.....	7464	M5960	.....	7200	M5988.4	.....	6812
M5782.6	.....	7664	M5860.2	.....	7471	M5960.4	.....	7208	M5989	.....	6804
M5782.8	.....	7666	M5860.3	.....	7470	M5960.5	.....	7206	M5990	.....	6802
M5783	.....	7652	M5861	.....	7460	M5961	.....	7040	M5991	.....	6788

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
M5991.1	.....	6792	M6023	.....	6576	M6048	.....	6328	M6133	.....	6136
M5992	.....	6796	M6023.5	.....	6572	M6048.5	.....	6320	M6135	.....	6132
M5992.1	.....	6800	M6023.8	.....	6544	M6049	.....	6324	M6136	.....	6128
M5994	.....	6776	M6024	.....	6552	M6050	.....	6276	M6137	.....	6124
M5995	.....	6768	M6024.8	.....	6540	M6050.1	.....	6280	M6138	.....	6120
M5995.6	.....	6772	M6025	.....	6524	M6050.3	.....	6284	M6138.5	.....	6116
M5995.8	.....	6764	M6025.4	.....	6536	M6050.8	.....	6272	M6138.6	.....	6110.9
M5996	.....	6780	M6025.6	.....	6528	M6051	.....	5824	M6139	.....	6112
M5996.05	.....	6740	M6025.7	.....	6537	M6051.3	.....	5832	M6141	.....	6110
M5996.2	.....	6736	M6026.3	.....	6520	M6051.5	.....	5822	M6144	.....	6108
M5996.4	.....	6748	M6026.35	.....	6522	M6052	.....	5812	M6146	.....	6104
M5996.5	.....	6750	M6026.4	.....	6516	M6053	.....	5816	M6156	.....	6096
M5997	.....	6744	M6026.5	.....	6508	M6053.4	.....	5820	M6156.5	.....	6100
M5997.2	.....	6784	M6027	.....	6512	M6055	.....	6072	M6158.2	.....	6088
M5997.3	.....	6752	M6027.15	.....	6500	M6055.5	.....	5836	M6158.5	.....	6092
M5997.6	.....	6760	M6027.17	.....	6504	M6056	.....	6064	M6159	.....	6036
M5998	.....	6756	M6027.2	.....	6496	M6057.5	.....	6060	M6159.2	.....	6032
M5999	.....	6742	M6027.4	.....	6492	M6057.8	.....	6308	M6159.3	.....	6028
M6000	.....	6732	M6027.5	.....	6488	M6058	.....	6312	M6159.4	.....	6016
M6001	.....	6724	M6027.6	.....	6484	M6059	.....	6316	M6159.5	.....	6024
M6001.1	.....	6728	M6028	.....	6476	M6063	.....	6292	M6160	.....	6012
M6001.5	.....	6720	M6031	.....	6452	M6063.4	.....	6296	M6160.2	.....	6020
M6002	.....	6716	M6032	.....	6448	M6063.5	.....	6294	M6160.3	.....	6055
M6003	.....	6708	M6032.2	.....	6456	M6063.6	.....	6264	M6160.5	.....	6050
M6003.4	.....	6712	M6032.3	.....	6464	M6064	.....	6268	M6160.6	.....	6056
M6004	.....	6700	M6032.4	.....	6460	M6066	.....	6260	M6161	.....	6076
M6006	.....	6704	M6032.5	.....	6468	M6073.5	.....	6254	M6161.3	.....	6080
M6006.8	.....	6696	M6032.6	.....	6472	M6074	.....	6252	M6161.4	.....	6084
M6007	.....	6688	M6032.7	.....	6420	M6080	.....	6232	M6161.5	.....	6008
M6007.1	.....	6692	M6033	.....	6440	M6080.2	.....	6248	M6161.6	.....	6044
M6007.2	.....	6684	M6033.2	.....	6444	M6081	.....	6236	M6161.7	.....	6048
M6007.3	.....	6682	M6033.3	.....	6424	M6081.2	.....	6240	M6161.8	.....	6040
M6007.35	.....	6681	M6033.31	.....	6428	M6081.4	.....	6228	M6161.9	.....	6006
M6007.4	.....	6680	M6033.32	.....	6432	M6082	.....	6224	M6162	.....	6000
M6007.5	.....	6678	M6033.42	.....	6436	M6084	.....	6220	M6162.3	.....	6004
M6008	.....	6644	M6033.46	.....	6416	M6085	.....	6222	M6163	.....	5984
M6008.5	.....	6640	M6033.5	.....	6412	M6087	.....	6212	M6163.4	.....	5972
M6008.7	.....	6636	M6033.6	.....	6414	M6093	.....	6208	M6163.6	.....	5988
M6009	.....	6632	M6033.7	.....	6408	M6093.5	.....	6210	M6164	.....	5980
M6009.2	.....	6628	M6033.8	.....	6404	M6093.6	.....	6209	M6164.4	.....	5992
M6009.5	.....	6652	M6034.2	.....	6396	M6094	.....	6204	M6178	.....	5968
M6009.54	.....	6656	M6034.5	.....	6400	M6094.4	.....	6200	M6180	.....	5964
M6009.6	.....	6648	M6035	.....	6392	M6095	.....	6196	M6192.3	.....	5962
M6009.64	.....	6660	M6035.2	.....	6394	M6095.6	.....	6140	M6193	.....	5960
M6009.7	.....	6664	M6036	.....	6384	M6095.62	.....	6140.21	M6194.2	.....	5944
M6010	.....	6668	M6036.3	.....	6307	M6095.63	.....	6140.22	M6194.4	.....	5948
M6010.2	.....	6672	M6036.4	.....	6380	M6095.64	.....	6140.31	M6194.5	.....	5952
M6010.3	.....	6676	M6038	.....	6376	M6095.65	.....	6140.32	M6194.7	.....	5940
M6010.4	.....	6624	M6042	.....	6356	M6096	.....	6192	M6195	.....	5936
M6011	.....	6620	M6042.25	.....	6374	M6097	.....	6164	M6195.4	.....	5932
M6012	.....	6580	M6042.3	.....	6352	M6097.2	.....	6168	M6195.6	.....	5920
M6013	.....	6588	M6042.4	.....	6362	M6097.4	.....	6172	M6196	.....	5928
M6014	.....	6616	M6042.46	.....	6364	M6097.6	.....	6184	M6196.4	.....	5916
M6015	.....	6612	M6042.6	.....	6368	M6098	.....	6176	M6196.5	.....	5924
M6016	.....	6604	M6044	.....	6372	M6099	.....	6180	M6196.54	.....	5926
M6017	.....	6608	M6044.5	.....	6360	M6104	.....	6188	M6196.6	.....	5908
M6019	.....	6596	M6045	.....	6344	M6110	.....	6160	M6196.7	.....	5912
M6020	.....	6600	M6045.2	.....	6348	M6110.1	.....	6161	M6197	.....	5900
M6021	.....	6592	M6046	.....	6336	M6110.12	.....	6161.1	M6197.2	.....	5904
M6021.5	.....	6584	M6046.3	.....	6340	M6110.15	.....	6162	M6197.6	.....	5896
M6022	.....	6548	M6047	.....	6332	M6110.16	.....	6162.1	M6198	.....	5888
M6022.2	.....	6568	M6047.2	.....	6330	M6111	.....	6152	M6199	.....	5884
M6022.4	.....	6560	M6047.4	.....	6300	M6112	.....	6156	M6200	.....	5880
M6022.5	.....	6564	M6047.6	.....	6288	M6113	.....	6144	M6201.5	.....	5870
M6022.7	.....	6558	M6047.8	.....	6304	M6115	.....	6146	M6201.8	.....	5866

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
M6202	.....	5868	M6267.68	.....	5662	M6307.5	.....	5456	M6413	.....	5192
M6204	.....	5864	M6267.69	.....	5663	M6308	.....	5448	M6417.2	.....	5210
M6206	.....	5860	M6267.7	.....	5664	M6309	.....	5444	M6417.3	.....	5211
M6207	.....	5858	M6268.2	.....	5616	M6310	.....	5436	M6418	.....	5216
M6208	.....	5874	M6268.4	.....	5620	M6311	.....	5440	M6418.2	.....	5220
M6208.7	.....	5875	M6268.8	.....	5612	M6314	.....	5432	M6418.4	.....	5224
M6209.5	.....	5873	M6268.9	.....	5608	M6318	.....	5428	M6418.41	.....	5228
M6210	.....	5872	M6269	.....	5604	M6323	.....	5424	M6419	.....	5232
M6216	.....	5852	M6269.2	.....	5600	M6326	.....	5420	M6419.2	.....	5244
M6216.4	.....	5856	M6269.22	.....	5602	M6328	.....	5412	M6420	.....	5236
M6217	.....	5844	M6269.24	.....	5596	M6329	.....	5406	M6421.8	.....	5246
M6217.4	.....	5848	M6269.27	.....	5592	M6332	.....	5404	M6422.2	.....	5248
M6218.5	.....	5810	M6269.3	.....	5588	M6333	.....	5400	M6424	.....	5254
M6219	.....	5800	M6269.5	.....	5584	M6334	.....	5402	M6426	.....	5256
M6221	.....	5804	M6269.6	.....	5580	M6335	.....	5399	M6427	.....	5264
M6221.2	.....	5808	M6270	.....	5572	M6336	.....	5398	M6427.04	.....	5273
M6223	.....	5796	M6270.4	.....	5576	M6338	.....	5388	M6427.06	.....	5274
M6224	.....	5792	M6272	.....	5556	M6339	.....	5392	M6427.12	.....	5267
M6225	.....	5790	M6272.5	.....	5558	M6340	.....	5396	M6427.15	.....	5268
M6226	.....	5784	M6272.8	.....	5562	M6340.5	.....	5394	M6427.19	.....	5272
M6228	.....	5778	M6273	.....	5560	M6342	.....	5384	M6427.4	.....	5276
M6230	.....	5780	M6273.5	.....	5552	M6343	.....	5368	M6427.6	.....	5280
M6233	.....	5774	M6274	.....	5564	M6344	.....	5372	M6427.8	.....	5284
M6234	.....	5772	M6274.4	.....	5568	M6345	.....	5376	M6428	.....	5292
M6234.5	.....	5770	M6274.8	.....	5566	M6347	.....	5364	M6429	.....	5288
M6234.6	.....	5769	M6275	.....	4924	M6349	.....	5380	M6430	.....	5304
M6234.7	.....	5768	M6275.5	.....	4922	M6354	.....	5044	M6430.5	.....	5301
M6234.73	.....	5766	M6276	.....	4920	M6354.3	.....	5048	M6431	.....	5296
M6234.8	.....	5764	M6276.1	.....	4928	M6354.4	.....	5050	M6432	.....	5300
M6235	.....	5760	M6276.2	.....	4936	M6355	.....	5056	M6433	.....	5308
M6235.1	.....	5762	M6276.3	.....	4938	M6357	.....	5060	M6433.6	.....	5312
M6235.5	.....	5756	M6276.4	.....	4932	M6358	.....	5064	M6434.2	.....	5316
M6236	.....	5752	M6276.6	.....	4939	M6358.1	.....	5068	M6434.5	.....	5320
M6236.2	.....	5754	M6277	.....	4952	M6359	.....	5072	M6434.67	.....	5356
M6236.3	.....	5753	M6277.4	.....	4956	M6359.5	.....	5055	M6434.9	.....	5340
M6237	.....	5748	M6278.1	.....	4948	M6360	.....	5076	M6434.95	.....	5336
M6238	.....	5746	M6278.5	.....	4950	M6361	.....	5084	M6435	.....	5332
M6239	.....	5744	M6279.6	.....	4940	M6362	.....	5080	M6439.4	.....	5116
M6239.4	.....	5736	M6280	.....	5488	M6368	.....	5092	M6439.41	.....	5120
M6239.5	.....	5740	M6281	.....	5484	M6370.09	.....	5095	M6440	.....	5124
M6241	.....	5732	M6281.1	.....	5492	M6372	.....	5132	M6440.4	.....	5110
M6244	.....	5724	M6281.2	.....	5496	M6376	.....	5128	M6440.6	.....	5108
M6244.5	.....	5726	M6281.7	.....	5486	M6377	.....	5140	M6440.8	.....	5106
M6248	.....	5708	M6282	.....	5476	M6377.25	.....	5142	M6441	.....	5096
M6248.4	.....	5704	M6284	.....	5480	M6377.5	.....	5141	M6442	.....	5100
M6249	.....	5700	M6286	.....	5500	M6378	.....	5136	M6443	.....	5104
M6249.4	.....	5692	M6290	.....	5548	M6379.5	.....	5143	M6443.8	.....	5053
M6249.5	.....	5696	M6291	.....	5546	M6380	.....	5144	M6443.9	.....	5052.5
M6253	.....	5676	M6292	.....	5536	M6390	.....	5146	M6444	.....	5052
M6253.2	.....	5680	M6293	.....	5544	M6400	.....	5196	M6444.5	.....	5051
M6253.4	.....	5684	M6293.3	.....	5540	M6400.6	.....	5148	M6445	.....	5040
M6255	.....	5688	M6293.6	.....	1404	M6400.61	.....	5152	M6445.5	.....	5036
M6262	.....	5716	M6294	.....	5532	M6401	.....	5156	M6446	.....	5032
M6262.1	.....	5720	M6295	.....	5528	M6401.2	.....	5160	M6446.5	.....	5030
M6263	.....	5668	M6296	.....	5524	M6401.3	.....	5164	M6447	.....	5028
M6264	.....	5624	M6297	.....	5522	M6401.32	.....	5168	M6448	.....	5020
M6264.2	.....	5628	M6300	.....	5504	M6401.4	.....	5172	M6448.4	.....	5024
M6265	.....	5632	M6300.4	.....	5512	M6401.45	.....	5170	M6451	.....	5012
M6265.1	.....	5636	M6300.6	.....	5520	M6401.5	.....	5180	M6451.2	.....	5016
M6266	.....	5640	M6302	.....	5516	M6401.6	.....	5176	M6452	.....	5004
M6266.4	.....	5644	M6302.4	.....	5472	M6402	.....	5188	M6455	.....	5000
M6267.4	.....	5652	M6303	.....	5468	M6406	.....	5184	M6456	.....	4992
M6267.5	.....	5648	M6303.5	.....	5466	M6407	.....	5204	M6457	.....	4984
M6267.6	.....	5656	M6304	.....	5464	M6411	.....	5200	M6457.1	.....	4988
M6267.64	.....	5660	M6306	.....	5452	M6412.5	.....	5208	M6457.4	.....	4990

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
M6458	.....	4980	M6498.2	.....	4656	M6535	.....	4388	M6584	.....	4166
M6459	.....	4912	M6499	.....	4652	M6535.2	.....	4384	M6585	.....	4168
M6459.1	.....	4916	M6499.8	.....	4632	M6537	.....	4376	M6586	.....	4164
M6461	.....	4900	M6500	.....	4636	M6538	.....	4372	M6586.2	.....	4162
M6462	.....	4904	M6500.4	.....	4612	M6540	.....	4368	M6586.4	.....	4160
M6463	.....	4890	M6500.6	.....	4620	M6540.5	.....	4366	M6586.6	.....	4156
M6465	.....	4888	M6501	.....	4616	M6541	.....	4364	M6587	.....	4152
M6465.4	.....	4892	M6502	.....	4624	M6542	.....	4356	M6588	.....	4148
M6466	.....	4880	M6502.8	.....	4644	M6544	.....	4348	M6588.2	.....	4144
M6466.4	.....	4884	M6503	.....	4640	M6545	.....	4352	M6588.4	.....	4140
M6466.6	.....	4882	M6503.5	.....	4648	M6545.5	.....	4360	M6589	.....	4136
M6467.4	.....	4876	M6504	.....	4608	M6545.7	.....	4354	M6589.25	.....	4108
M6468	.....	4872	M6505	.....	4604	M6546	.....	4344	M6589.3	.....	4113
M6468.2	.....	4868	M6505.4	.....	4592	M6547	.....	4336	M6589.4	.....	4132
M6468.4	.....	4860	M6505.6	.....	4588	M6548	.....	4340	M6589.8	.....	4128
M6468.41	.....	4864	M6507	.....	4584	M6549	.....	4320	M6592	.....	4116
M6469	.....	4848	M6507.4	.....	4580	M6549.5	.....	4324	M6593	.....	4100
M6469.2	.....	4852	M6508	.....	4560	M6549.8	.....	4334	M6593.2	.....	4104
M6469.4	.....	4856	M6509.6	.....	4564	M6550	.....	4328	M6593.3	.....	4098
M6470	.....	4836	M6511	.....	4556	M6551	.....	4332	M6594	.....	4096
M6470.1	.....	4844	M6512	.....	4552	M6554	.....	4304	M6594.5	.....	4092
M6470.14	.....	4840	M6513	.....	4550	M6555	.....	4316	M6595	.....	4084
M6470.2	.....	4828	M6514.1	.....	4540	M6555.2	.....	4308	M6595.04	.....	4088
M6470.3	.....	4832	M6514.2	.....	4536	M6555.21	.....	4312	M6595.1	.....	4060
M6470.7	.....	4824	M6514.3	.....	4542	M6556	.....	4300	M6595.2	.....	4076
M6470.8	.....	4826	M6514.6	.....	4524	M6557	.....	4296	M6595.24	.....	4080
M6470.9	.....	4818	M6514.8	.....	4532	M6558	.....	4292	M6595.4	.....	4068
M6471	.....	4816	M6514.9	.....	4528	M6560	.....	4284	M6595.5	.....	4064
M6471.03	.....	4812	M6514.95	.....	4520	M6560.2	.....	4285	M6595.7	.....	4072
M6471.1	.....	4804	M6514.96	.....	4512	M6560.5	.....	4286	M6596	.....	4040
M6472	.....	4800	M6514.97	.....	4516	M6561	.....	4288	M6597	.....	4048
M6477	.....	4796	M6515	.....	4504	M6561.6	.....	4282	M6597.2	.....	4056
M6478	.....	4780	M6515.2	.....	4508	M6562	.....	4280	M6597.3	.....	4052
M6478.4	.....	4784	M6515.4	.....	4500	M6564	.....	4276	M6597.35	.....	4044
M6479	.....	4788	M6516	.....	4496	M6566	.....	4268	M6597.6	.....	4036
M6482	.....	4752	M6516.7	.....	4499	M6566.5	.....	4256	M6598	.....	4028
M6482.2	.....	4768	M6517	.....	4488	M6567	.....	4248	M6599	.....	4026
M6482.4	.....	4764	M6517.2	.....	4492	M6567.2	.....	4260	M6600	.....	4025
M6483	.....	4756	M6517.4	.....	4480	M6567.21	.....	4264	M6602	.....	4024
M6483.4	.....	4760	M6517.45	.....	4484	M6567.3	.....	4254	M6603	.....	4020
M6491	.....	4776	M6517.5	.....	4476	M6567.4	.....	4272	M6603.5	.....	4018
M6491.4	.....	4750	M6518	.....	4472	M6567.48	.....	4246	M6604	.....	4016
M6491.41	.....	4750.1	M6520	.....	4432	M6567.5	.....	4252	M6604.1	.....	4015
M6492	.....	4744	M6520.5	.....	4434	M6568	.....	4240	M6604.2	.....	4014
M6492.4	.....	4741	M6521	.....	4452	M6569	.....	4244	M6604.5	.....	4012
M6493.2	.....	4740	M6521.1	.....	4464	M6570	.....	4236	M6605	.....	4008
M6494.2	.....	4732	M6521.2	.....	4460	M6571	.....	4216	M6605.2	.....	4004
M6495	.....	4720	M6521.25	.....	4457	M6572	.....	4214	M6605.25	.....	4006
M6495.04	.....	4724	M6521.32	.....	4458	M6574	.....	4232	M6605.4	.....	4000
M6495.3	.....	4708	M6521.35	.....	4456	M6575	.....	4228	M6605.8	.....	3996
M6495.4	.....	4728	M6521.4	.....	4448	M6578	.....	4224	M6606	.....	3992
M6495.45	.....	4710	M6521.5	.....	4454	M6579	.....	4220	M6607	.....	3988
M6495.5	.....	4704	M6522	.....	4444	M6581	.....	4208	M6607.4	.....	3986
M6495.6	.....	4702	M6523	.....	4442	M6581.2	.....	4213	M6607.5	.....	3984
M6495.8	.....	4688	M6524	.....	4436	M6581.5	.....	4212	M6607.8	.....	3983
M6495.9	.....	4684	M6524.1	.....	4440	M6582	.....	4172	M6608	.....	3972
M6496	.....	4692	M6530	.....	4428	M6582.2	.....	4176	M6609	.....	3980
M6496.02	.....	4700	M6531	.....	4424	M6582.4	.....	4180	M6610	.....	3976
M6496.03	.....	4696	M6532	.....	4412	M6582.6	.....	4184	M6610.3	.....	3978
M6496.04	.....	4680	M6533	.....	4408	M6583	.....	4196	M6610.6	.....	3982
M6496.1	.....	4676	M6533.4	.....	4400	M6583.1	.....	4200	M6612	.....	3956
M6496.2	.....	4672	M6533.6	.....	4404	M6583.3	.....	4204	M6612.1	.....	3960
M6496.3	.....	4668	M6533.8	.....	4416	M6583.4	.....	4206	M6613	.....	3964
M6496.6	.....	4660	M6533.81	.....	4420	M6583.5	.....	4188	M6613.3	.....	3968
M6497	.....	4664	M6534	.....	4380	M6583.7	.....	4192	M6614	.....	3952

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
M6615		3948	M6647.5		3734	M6740		812	M6793		592
M6618		3944	M6649		3731	M6740.5		814	M6794		590
M6618.4		3942	M6650		3730	M6741		816	M6796		580
M6619		3941	M6650.5		3728	M6741.05		816.5	M6797		584
M6620		3896	M6650.7		3726	M6741.2		820	M6798		588
M6621		3900	M6651		3724	M6741.25		820.5	M6799		578
M6622		3920	M6654		3716	M6741.3		824	M6802		576
M6623		3924	M6656		3720	M6741.35		811	M6803		572
M6623.2		3928	M6657		3712	M6741.4		810	M6803.5		574
M6623.6		3922	M6657.5		3714	M6741.5		808	M6807.5		556
M6624		3936	M6658		3708	M6742		796	M6808		560
M6624.4		3940	M6662		3704	M6742.4		800	M6809		562
M6624.7		3916	M6662.5		3707	M6744		792	M6810		564
M6624.8		3904	M6663		3706	M6744.2		790.5	M6811.7		554
M6624.85		3906	M6668		3696	M6744.5		788	M6812		552
M6625		3892	M6670		3700	M6745		688	M6812.4		548
M6625.5		3908	M6672		3692	M6745.5		692	M6813		544
M6625.7		3884	M6673		3688	M6746		708	M6814		516
M6626		3888	M6684		988	M6746.4		704	M6814.1		522
M6627		3880	M6686		992	M6746.6		696	M6814.2		520
M6627.4		3878	M6690		964	M6747		712	M6814.3		542
M6628		3860	M6691		968	M6748		724	M6814.4		540
M6628.2		3876	M6692		960	M6749		716	M6814.5		529
M6628.4		3872	M6693		956	M6750		720	M6815		524
M6628.8		3856	M6695		948	M6754.3		736	M6816		536
M6630		3852	M6696		952	M6754.31		740	M6816.4		532
M6631		3848	M6698		944	M6755		748	M6822		512
M6631.2		3847	M6700		940	M6755.1		752	M6826		508
M6631.4		3845	M6701		936	M6756		744	M6826.5		510
M6631.5		3846	M6701.5		934	M6762		756	M6828		500
M6631.6		3846.5	M6702		928	M6762.1		760	M6828.4		502
M6631.8		3846.1	M6702.5		932	M6763		764	M6829		504
M6632		3840	M6703		924	M6763.1		768	M6830		492
M6633		3844	M6704		920	M6768		772	M6830.4		498
M6633.5		3836	M6704.5		922	M6768.1		776	M6831		496
M6633.8		3834	M6706		900	M6769		780	M6834		488
M6634.5		3832	M6707		904	M6769.1		784	M6834.3		486
M6635		3830	M6707.4		908	M6770		680	M6834.5		484
M6635.4		3833	M6707.5		898	M6770.3		684	M6835		480
M6636		3828.2	M6708		912	M6772		676	M6835.5		478
M6636.2		3828.4	M6714		916	M6773		664	M6836		472
M6636.3		3828	M6715		896	M6773.1		674	M6837		476
M6636.6		3835	M6716		892	M6773.3		675	M6837.5		474
M6636.7		3816	M6718		888	M6773.4		668	M6838.4		469
M6637		3812	M6719		884	M6773.7		672	M6839		460
M6637.4		3811	M6720		882	M6773.75		673	M6839.2		468
M6638		3810	M6722		880	M6774		660	M6839.4		464
M6638.4		3809	M6724		876	M6774.3		658	M6840		448
M6639		3806	M6724.4		868	M6774.4		652	M6842		452
M6640		3804	M6724.5		872	M6774.6		648	M6845		444
M6640.2		3802	M6725		864	M6775		644	M6847		440
M6640.25		3800	M6727		860	M6776		640	M6850		436
M6640.4		3790	M6727.4		860.5	M6777		632	M6852		432
M6641		3780	M6728.5		858	M6777.5		636	M6853		438
M6641.2		3788	M6729		856	M6778		628	M6854		439
M6641.4		3778	M6730		852	M6780		626	M6856		388
M6641.6		3776	M6730.3		851	M6781		620	M6856.5		392
M6641.7		3772	M6730.5		850	M6783		624	M6856.7		396
M6642		3768	M6731		848	M6784		616	M6857		400
M6642.5		3764	M6732		844	M6786		604	M6857.4		402
M6643		3760	M6733		836	M6788		608	M6857.5		404
M6643.2		3744	M6734		842	M6789		612	M6858		424
M6643.5		3740	M6735		832	M6790		602	M6860		412
M6645.2		3736	M6737		830	M6791		600	M6861		416
M6646		3731.5	M6738		828	M6792		596	M6861.2		420

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
M6861.4		426	M6913		1452	M7002		1184	M7055.14		3648
M6861.5		428	M6913.5		1462	M7003		1180	M7055.2		3640
M6862		308	M6914		1433	M7004		1172	M7055.5		3636
M6863		430	M6915		1372	M7004.3		1176.5	M7055.8		3632
M6866		296	M6917		1378	M7004.5		1178	M7055.9		3628
M6870		304	M6919		1420	M7005		1176	M7056		3624
M6872		300	M6922		1416	M7005.2		1168	M7057		3612
M6876		294	M6922.4		1412	M7005.5		1164	M7057.2		3620
M6877		288	M6923		1408	M7005.7		1160	M7057.4		3608
M6878		292	M6924		1400	M7006		1152	M7058		3604
M6878.5		293	M6925		1396	M7008		1156	M7058.8		3600
M6882		280	M6926		1392	M7009		1148	M7058.9		3596
M6883		276	M6927		1388	M7010		1144	M7059.5		3592
M6884		272	M6928		1380	M7011		1140	M7059.6		3588
M6884.4		268	M6930		1384	M7012		1136	M7060		3584
M6884.6		270	M6934		1368	M7013		1132	M7061		3560
M6885		252	M6934.1		1367	M7013.2		1130	M7061.4		3562
M6886		256	M6934.5		1356	M7013.4		1128	M7062		3564
M6886.2		262	M6935		1364	M7014		1124	M7062.7		3574
M6886.4		260	M6936		1360	M7015		1120	M7063.3		3576
M6887		264	M6939		1336	M7016		1116	M7063.4		3572
M6889		248	M6941		1332	M7018		1112	M7063.5		3568
M6890		244	M6941.5		1350	M7018.5		1108	M7064		3580
M6892		236	M6942		1352	M7019		1100	M7066		3552
M6893		240	M6942.6		1344	M7019.4		1104	M7066.5		3548
M6893.5		232	M6942.8		1348	M7020		1096	M7067		3556
M6893.6		228	M6944		1324	M7021		1088	M7069		3544
M6893.65		226	M6945		1330	M7022		1080	M7069.4		3536
M6893.7		224	M6946		1328	M7023		1084	M7069.6		3540
M6894.4		216	M6953		1312	M7023.2		1076	M7070		3528
M6894.5		212	M6954		1308	M7023.3		1092	M7071		3532
M6894.6		208	M6954.4		1320	M7023.8		1072	M7072		3520
M6895		204	M6955		1316	M7024.4		1064	M7072.4		3524
M6895.2		202	M6957		1304	M7024.6		1068	M7075		3516
M6895.4		200	M6958		1300	M7025.2		1056	M7075.5		3513
M6896		1524	M6959		1296	M7025.4		1052	M7076		3504
M6896.5		1536	M6960.6		1272	M7026		1048	M7076.1		3506
M6897		1532	M6960.8		1280	M7028		1032	M7076.2		3512
M6897.2		1528	M6961		1276	M7028.4		1044	M7076.3		3508
M6897.4		1522	M6962		1284	M7029		1036	M7077		3496
M6897.6		1520	M6963		1288	M7029.4		1040	M7077.4		3500
M6898		1516	M6970		1260	M7031		1024	M7080		3492
M6899		1512	M6972		1268	M7032.4		1016	M7082		3472
M6900		1508	M6972.2		1256	M7032.6		1008	M7082.5		3476
M6900.5		1510	M6972.4		1258	M7033		1012	M7083		3484
M6901		1476	M6973.5		1252	M7034		1004	M7084		3480
M6901.5		1480	M6974		1248	M7036		1000	M7085		3488
M6902		1484	M6974.4		1244	M7037		996	M7086		3470
M6902.4		1488	M6975.5		1240	M7039		984	M7087		3460
M6903.4		1492	M6979		1231.5	M7040		980	M7087.1		3464
M6904		1486	M6980		1232	M7042		972	M7087.2		3468
M6905		1486.5	M6981.2		1231.2	M7044		976	M7087.3		3456.1
M6907		1472	M6981.4		1230	M7048		3680	M7087.4		3456
M6908		1428	M6981.41		1231	M7052		3672	M7087.8		3440
M6908.4		1432	M6988		1224	M7052.5		3674	M7087.9		3444
M6909		1424	M6989		1228	M7053		3676	M7088		3428
M6910		1436	M6992		1220	M7053.3		3670	M7088.4		3432
M6910.5		1444.5	M6995		1216	M7053.6		3668	M7088.6		3436
M6910.7		1440	M6996		1212	M7053.8		3664	M7088.8		3424
M6911		1448	M6997.5		1210	M7054		3660	M7089		3416
M6911.2		1466	M6998		1196	M7054.2		3656	M7089.5		3420
M6911.4		1468	M6998.4		1204	M7054.4		3658	M7090		3412
M6911.6		1456	M6998.6		1200	M7055		3652	M7090.5		3408
M6912		1460	M6999.4		1208	M7055.1		3644	M7090.7		3405
M6912.4		1464	M7001		1188	M7055.12		3646	M7090.8		3406

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
M7092		3272	M7136.5		3170	M7188.1		2940	M7240.7		2688
M7092.4		3276	M7136.6		3164	M7188.2		2936	M7241		2684
M7092.6		3280	M7136.7		3156	M7188.4		2948	M7241.5		2680
M7093		3284	M7136.8		3160	M7189		2932	M7242		2676
M7094		3292	M7136.9		3152	M7189.4		2928	M7242.6		2672
M7094.4		3290	M7137		3148	M7189.6		2924	M7243		2668
M7095		3288	M7137.2		3144	M7190		2920	M7243.5		2666
M7096		3296	M7137.4		3143	M7190.8		2916	M7243.64		2656
M7096.5		3300	M7137.6		3140	M7192.4		2912	M7243.68		2648
M7097		3304	M7142		3132	M7192.6		2914	M7243.7		2640
M7098		3308	M7144		3136	M7194		2904	M7243.74		2636
M7100.2		3312	M7144.4		3124	M7194.5		2902	M7243.8		2632
M7100.6		3314	M7144.5		3128	M7195		2896	M7244		2628
M7101.5		3315	M7145		3120	M7195.4		2900	M7245		2624
M7102		3316	M7147		3116	M7195.8		2892	M7245.5		2620
M7102.5		3320	M7149		3112	M7195.9		2876	M7246		2600
M7102.7		3214	M7150.5		3100	M7195.95		2880	M7247		2604
M7103		3216	M7150.6		3098	M7196		2888	M7248		2612
M7103.08		3218	M7151		3096	M7198		2872	M7248.2		2616
M7103.3		3220	M7151.4		3092	M7199		2884	M7249		2596
M7103.5		3224	M7151.6		3104	M7200		2856	M7249.6		2592
M7103.51		3226	M7151.8		3090	M7201		2860	M7250		2588
M7103.52		3222	M7152		3084	M7201.4		2864	M7250.5		2584
M7103.6		3228	M7154		3088	M7201.6		2868	M7251		2580
M7104		3232	M7156		3080	M7202		2852	M7251.4		2576
M7104.4		3236	M7160		3056	M7204		2836	M7251.6		2572
M7104.5		3240	M7160.4		3060	M7206		2840	M7252		2556
M7104.7		3244	M7160.6		3064	M7207		2844	M7252.4		2560
M7105		3248	M7161		3072	M7209		2832	M7252.7		2568
M7106		3256	M7161.3		3076	M7210		2830	M7252.8		2564
M7106.2		3258	M7162		3068	M7212		2828	M7254		2548
M7106.4		3252	M7162.2		3066	M7212.4		2824	M7254.4		2544
M7107		3260	M7162.3		3065	M7213		2820	M7254.6		2552
M7107.4		3264	M7162.4		3064.1	M7214		2812	M7254.7		2554
M7107.6		3268	M7164.5		3052	M7216		2816	M7255		2540
M7108.2		3388	M7166		3044	M7220		2792	M7255.4		2538
M7108.4		3396	M7166.5		3048	M7221		2804	M7256.6		2528
M7108.6		3392	M7166.75		3046	M7221.1		2808	M7257		2536
M7109		3380	M7167.4		3040	M7221.3		2790	M7257.2		2532
M7110		3384	M7168		3036	M7221.4		2791	M7258		2504
M7110.5		3352	M7169		3032	M7221.6		2788	M7259		2516
M7111.2		3356	M7169.5		3030	M7222		2784	M7260		2512
M7112		3360	M7170		3028	M7224		2780	M7261		2520
M7113		3372	M7170.5		3024	M7225		2772	M7261.4		2524
M7116		3376	M7171		3020	M7226		2776	M7262		2518
M7116.5		3370	M7171.4		3016	M7230		2768	M7269.3		2500
M7116.8		3350	M7171.8		2994	M7232		2752	M7269.4		2488
M7117		3348	M7172		2992	M7232.4		2764	M7269.5		2492
M7117.4		3344	M7172.4		2988	M7233		2760	M7269.6		2496
M7118		3340	M7173		2984	M7233.2		2756	M7269.7		2484
M7118.4		3332	M7174		2996	M7234		2744	M7270		2480
M7118.6		3336	M7174.5		3000	M7234.4		2748	M7271.4		2476
M7119		3328	M7177		3004	M7236		2740	M7271.6		2472
M7119.5		3326	M7180		3008	M7236.4		2736	M7272		2468
M7120		3324	M7182		3012	M7237		2720	M7274		2456
M7121		3208	M7182.2		3014	M7237.2		2732	M7274.1		2460
M7125		3200	M7182.6		2980	M7237.4		2728	M7274.2		2452
M7125.5		3202	M7183		2976	M7238		2724	M7274.4		2448
M7128		3196	M7183.5		2982	M7239.5		2716	M7274.5		2444
M7132		3192	M7184		2972	M7239.7		2712	M7274.7		2443
M7132.5		3188	M7185		2960	M7240		2704	M7275		2440
M7132.8		3180	M7186		2964	M7240.2		2708	M7276		2428
M7133		3184	M7186.2		2968	M7240.3		2696	M7277		2432
M7134		3172	M7186.6		2956	M7240.4		2700	M7278		2436
M7135		3168	M7188		2944	M7240.5		2692	M7278.6		2412

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Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
M7279		2416	M7316		2172	M7337		1932	M7378.8		1644
M7279.1		2420	M7317		2176	M7337.6		1922	M7378.9		1648
M7279.2		2424	M7318		2010	M7338		1916	M7379		1636
M7280		2400	M7318.4		2012	M7339		1920	M7380		1684
M7280.4		2408	M7318.6		2008	M7341		1904	M7381.8		1656
M7280.7		2402	M7319.5		2076	M7341.2		1912	M7381.9		1660
M7281		2376	M7319.7		2072	M7341.4		1900	M7382		1652
M7281.5		2380	M7319.75		2070	M7342		1888	M7382.2		1664
M7282		2392	M7319.8		2068	M7343		1892	M7384		1668
M7283		2396	M7320		2064	M7343.2		1896	M7386		1680
M7283.2		2372	M7320.2		2056	M7343.6		1884	M7388		1620
M7283.3		2384	M7320.4		2060	M7344		1880	M7389		1672
M7283.4		2368	M7320.8		2052	M7345		1876	M7389.5		1624
M7283.5		2360	M7321.1		2048	M7346		1868	M7390.5		1616
M7283.51		2364	M7321.12		2046	M7346.2		1872	M7391		1612
M7283.52		2352	M7321.14		2044	M7346.4		1864	M7392		1604
M7283.54		2356	M7321.16		2040	M7346.5		1860	M7394		1600
M7283.57		2340	M7321.2		2032	M7347		1856	M7395		1592
M7283.58		2348	M7321.25		2036	M7347.4		1852	M7395.2		1594
M7283.59		2344	M7321.3		2088	M7348		1824	M7395.4		1576
M7283.6		2332	M7321.4		2084	M7348.5		1844	M7395.6		1580
M7283.7		2336	M7321.42		2082	M7349		1828	M7395.8		1588
M7283.8		2328	M7321.5		2080	M7349.15		1832	M7396		1584
M7283.84		2324	M7321.7		2152	M7349.2		1840	M7397		1568
M7283.85		2320	M7321.74		2164	M7349.3		1838	M7397.5		1570
M7283.9		2308	M7321.77		2148	M7351		1848	M7399		1564
M7283.94		2316	M7321.8		2166	M7351.5		1820	M7399.2		1566.1
M7283.96		2312	M7321.9		2160	M7352.4		1804	M7399.5		1566
M7284		2300	M7321.94		2156	M7354		1812	M7400		1560
M7285		2304	M7322		2136	M7355		1808	M7401		1556
M7285.5		2298	M7322.6		2132	M7357		1800	M7402		1552
M7286		2296	M7322.8		2140	M7358		1788	M7420		16198
M7286.4		2292	M7323		2092	M7358.4		1792	M7420.01		16198.1
M7287		2288	M7323.2		2096	M7358.41		1796	M7422		16196
M7287.5		2276	M7323.21		2098	M7359		1784	M7428		16192
M7287.6		2286	M7323.24		2100	M7360		1780	M7430		16188
M7288.6		2264	M7323.36		2120	M7360.4		1776	M7434		16172
M7288.8		2268	M7323.4		2116	M7360.5		1740	M7435.5		16170.3
M7288.9		2260	M7323.44		2124	M7360.6		1736	M7436		16170.4
M7289		2256	M7323.5		2104	M7360.7		1732	M7438		16170.35
M7289.1		2252	M7323.6		2128	M7360.8		1724	M7440		16170.25
M7289.14		2248	M7323.7		2112	M7360.85		1730	M7440.1		16170.26
M7289.2		2236	M7323.8		2108	M7360.9		1728	M7470		16166
M7289.3		2244	M7324		2004	M7361		1692	M7471		16167
M7289.4		2240	M7324.4		2000	M7361.2		1726	M7472		16169
M7290		2228	M7324.5		1996	M7361.4		1720	M7472.01		16169.1
M7290.2		2232	M7324.6		1992	M7362		1696	M7472.02		16169.2
M7292		2224	M7324.7		1988	M7362.5		1722	M7473		16169.3
M7293		2220	M7325		1976	M7363.6		1704	M7474		16169.7
M7293.5		2216	M7325.4		1980	M7363.7		1712	M7474.01		16169.8
M7294		2180	M7326		1984	M7363.8		1708	M7478		16169.91
M7294.5		2182	M7327		1971	M7364		1716	M7479		16169.92
M7296		2184	M7327.5		1968	M73645		1723	M7480		16170
M7297		2188	M7328		1972	M7368		1764	M7480.01		16170.1
M7300		2208	M7331		1960	M7369		1768	M7482		16170.18
M7304		2212	M7331.5		1964	M7369.6		1760	M7498		16160
M7305		2204	M7332		1958	M7370		1748	M7528		16056
M7306		2192	M7333		1956	M7372.4		1754	M7532		16052
M7307		2196	M7333.2		1952	M7373		1756	M7533		16053
M7308		2200	M7333.5		1944	M7374		1758	M7534		16054
M7314		2016	M7333.7		1948	M7375		1744	M7538		16008
M7315		2020	M7334		1936	M7377		1628	M7558		16004
M7315.2		2024	M7335		1940	M7378		1632	M7562		15948
M7315.4		2028	M7336		1924	M7378.2		1634	M7563		15952
M7315.6		2168	M7336.4		1928	M7378.6		1640	M7563.2		15944

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Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
M7563.4		15992	M7682		15744.31	M7902		15588	M8062		15520
M7563.41		15996	M7685		15744.51	M7902.5		195	M8063		15525
M7563.6		16000	M7685.1		15744.52	M7903		15590	M8063.5		15526
M7564		15960	M7686		15744.6	M7904		15589	M8064		15516
M7564.1		15964	M7686.1		15744.61	M7910		15585	M8065		15442.7
M7566		15968	M7700		15744	M7920		195.5	M8066		15442.5
M7566.1		15972	M7703		15740	M7982		15744.45	M8067		15442
M7567		15956	M7704		15736	M7982.1		15744.4	M8068		15441.6
M7567-7		15958	M7706		162	M7982.11		15744.41	M8069		15441
M7568.4		15965.1	M7707		161	M7982.2		15744.36	M8072		15441.3
M7568.5		15965	M7708		160	M7982.3		15745.15	M8076		15440.5
M7569		15940	M7709		156	M7982.31		15745.16	M8096		15440
M7570		15942	M7709.4		148	M7982.35		15745.2	M8102		15432
M7572		15936	M7709.5		152	M7982.351		15745.21	M8108		15428
M7573		15934	M7711		140	M7982.4		15745	M8120		15424
M7574		15926	M7711.5		132	M7985		15584	M8121.8		15400
M7576		15924	M7712		136, 15717	M7986		15582	M8125		15420
M7578		15920	M7713		108	M8006		15569	M8126		15416
M7579		15909.5	M7713.1		112	M8007		15568	M8128		15408
M7579.5		15909	M7714		124, 15720	M8008.1		15566.2	M8129		15410
M7581		15908	M7714.2		128, 15720.1	M8008.2		15566	M8130		15412
M7584		15900	M7715		120	M8009		15564	M8150		15348
M7588		15896	M7715.2		116	M8011		15562	M8153		15352
M7596		15880	M7716		104	M8015		15561	M8157		15353
M7604		15868	M7738		100	M8021		15560	M8157.1		15353.1
M7608		15864	M7746		56	M8022		15553.15	M8157.5		15353.5
M7610		15860	M7748		76	M8024		15553.1	M8159		15356
M7612		15856	M7750		80	M8026		15553.05	M8169		15345
M7613		15854	M7752		60	M8028		15553	M8169.1		15345.01
M7614		15852	M7752.1		64	M8030		15552	M8172		15344
M7616		15848	M7753		68	M8036		15532	M8172.5		15340
M7617		15844	M7753.1		72	M8037.5		15530	M8173		15336
M7618		15840	M7754		84	M8038		15528	M8176		15328
M7622		15836	M7754.3		92	M8041		316	M8178		15332
M7626		15832	M7754.5		96	M8041.5		15522	M8180		15320
M7630		15828	M7776		40	M8042		320	M8182		15324
M7634		15824	M7778		44	M8043		15538	M8183		15317
M7636		15820	M7778.1		48	M8045		323	M8183.1		15317.5
M7640		15812	M7788		36	M8046		324	M8186		15316
M7642		15798	M7794		16	M8047		326	M8188		15312
M7643		15784	M7796		20	M8048		340	M8190		15308
M7650		15786	M7800		12	M8049		344	M8192		15304
M7651		15788	M7802		8	M8049.3		345	M8193		15303
M7652		15790	M7804		4	M8049.5		346	M8194		15302
M7653		15792	M7806		2	M8050		348	M8194.2		15289.3
M7653.1		15792.2	M7810		162.3	M8050.5		349	M8194.8		15289.7
M7653.2		15792.4	M7828		162.4	M8051		352	M8195		15289.1
M7654		15794	M7830		164	M8051.5		354	M8196		15300
M7660		15796	M7831		162.5	M8052		360	M8208		15284
M7670		15776	M7832		162.7	M8053		356	M8210		15289
M7674		15768	M7840		165	M8054		372	M8211		15283
M7675		15761.3	M7841.5		166	M8054.2		376.5	M8212		15282
M7676		15761.4	M7842		168	M8054.5		376	M8214		15280
M7676.5		15761.35	M7846		170	M8054.6		379	M8216		15281
M7677		15761	M7847		172.5	M8054.7		380.5	M8217		15281.1
M7677.1		15761.1	M7848		172	M8056		384	M8220		15272
M7677.5		15761.2	M7870		174	M8056.2		384.5	M8226		15268
M7677.51		15761.21	M7875		180	M8056.5		385	M8232		15260
M7678		15760	M7876		184	M8057		386	M8346		4964, 4968
M7679		15587	M7876.1		188	M8057.6		456	M8347		4962
M7679.4		15584.45	M7884		196	M8057.8		456.5	M8348		4960
M7679.41		15584.46	M7885		192	M8058		364	M8350		4972
M7679.5		15744.2	M7885.1		193	M8059		366	M8351		4974
M7679.51		15744.21	M7890		194	M8060		368	M8360		4976