



PUB. 113
LIST OF LIGHTS

RADIO AIDS AND FOG SIGNALS

2014

THE WEST COASTS OF EUROPE AND
AFRICA, THE MEDITERRANEAN SEA,
BLACK SEA AND AZOVSKOYE MORE (SEA
OF AZOV)

IMPORTANT

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



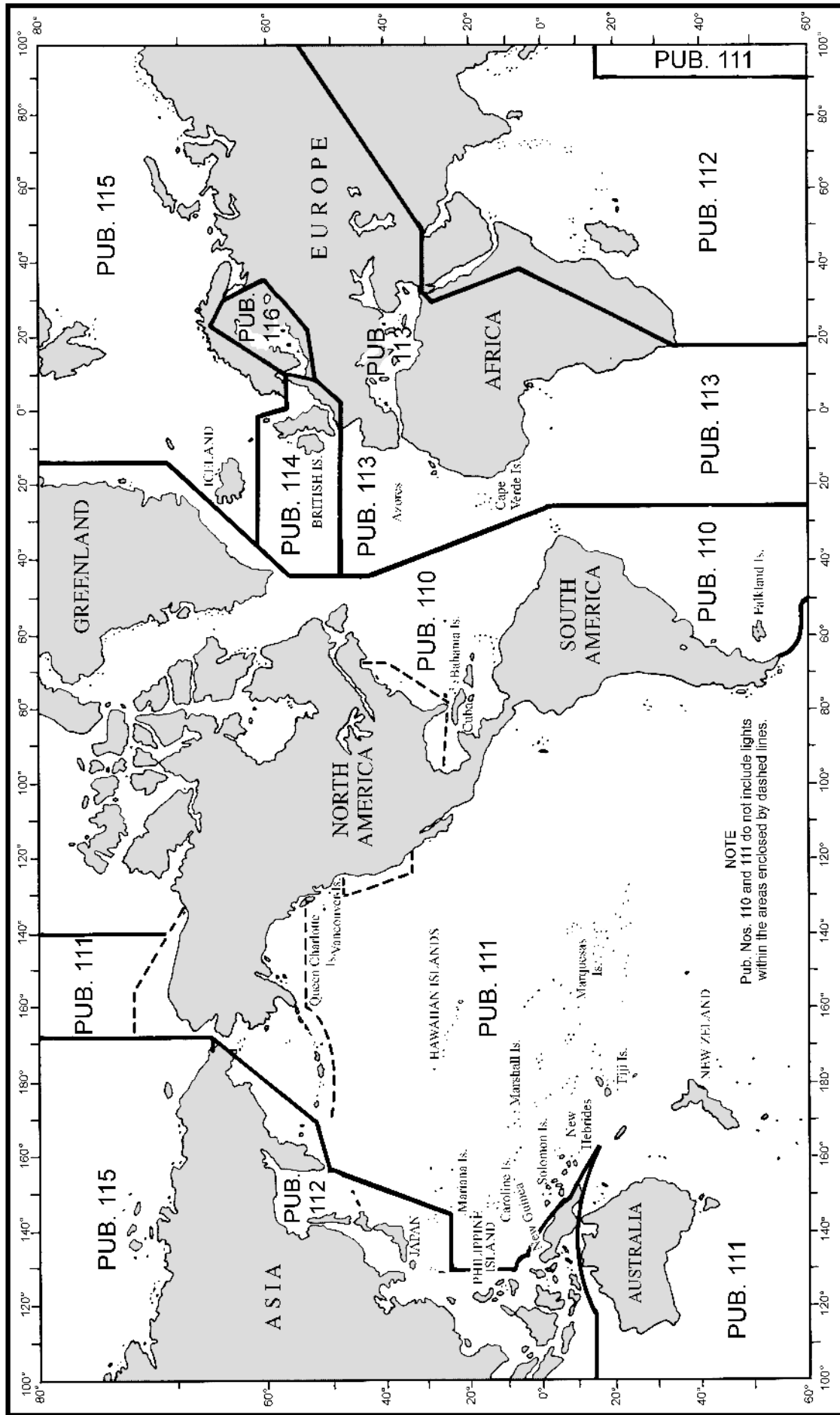
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LIST OF LIGHTS LIMITS NATIONAL GEOSPATIAL-INTELLIGENCE AGENCY



113

LIGHTS

WEST COAST OF EUROPE

2014

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 2014 edition of Pub. 113, List of Lights, Radio Aids and Fog Signals for the West Coasts of Europe and Africa, the Mediterranean Sea, Black Sea and Azovskoye More (Sea of Azov), cancels the previous edition of Pub. 113.

This edition contains information available to the National Geospatial-Intelligence Agency (NGA) up to 2 August 2014, including Notice to Mariners No. 31 of 2014.

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 2014				YEAR 2015			
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:

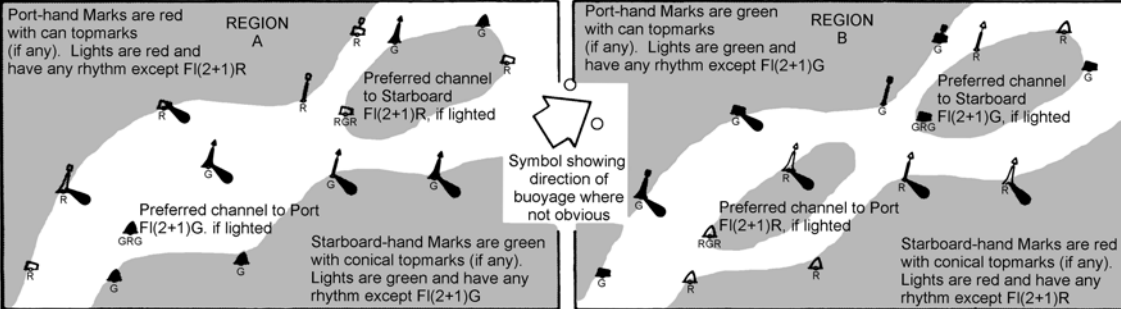
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Buoys and Beacons IALA* Buoyage System

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.

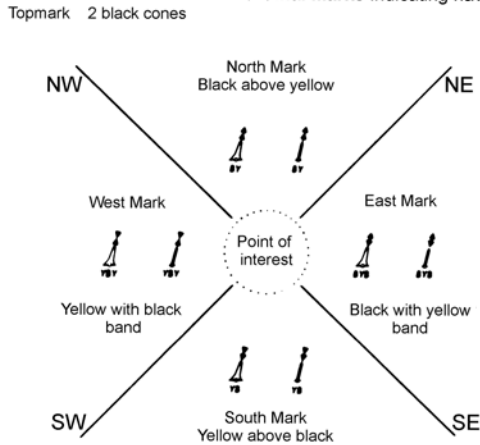


A preferred channel buoy may also be a pillar or a spar All preferred channel marks have three horizontal bands of color

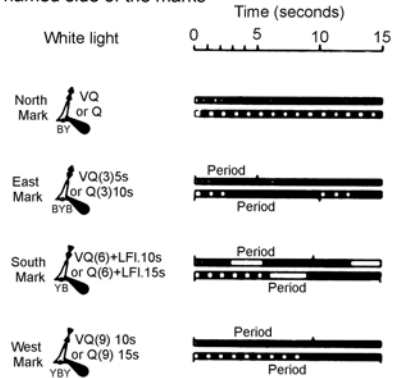
All marks other than Lateral Marks are the same in REGIONS A and B

UNLIGHTED MARKS

Cardinal Marks indicating navigable water to the named side of the marks



LIGHTED MARKS



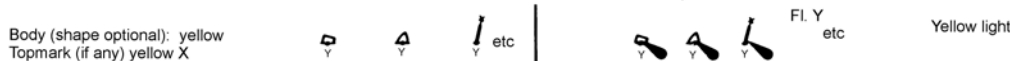
Isolated Danger Marks, stationed over dangers with navigable water around them.


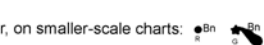


Safe Water Marks, such as mid-channel and landfall marks.



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 Hydrographic 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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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


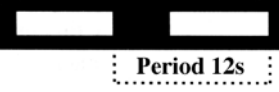








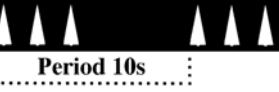


Where the lights of different countries intermingle in the list they are distinguished by the following letters:






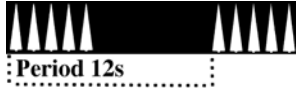




(A.)	Albania	(L.)	Liberia
(Bu.)	Bulgaria	(P.)	Portugal
(E.)	Egypt	(Ro.)	Romania
(F.)	France	(S.)	Spain
(Gr.)	Greece	(T.)	Turkey
(I.)	Italy	(U.K.)	United Kingdom

Other abbreviations:

Al.—alternating	lit.—lit
bl.—blast	Mo.—Morse code
Bu.—blue	min.—minute
Dir.—directional	obsc.—obscured
ec.—eclipsed	Oc.—occulting
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	
I.Q.—interrupted quick flashing	unintens.—unintensified
Iso.—isophase	vert.—vertical
I.V.Q.—interrupted very quick flashing	Vi.—violet
Km.—kilometer (0.62137 mile)	vis.—visible
L.Fl.—long flashing	V.Q.—very quick 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.

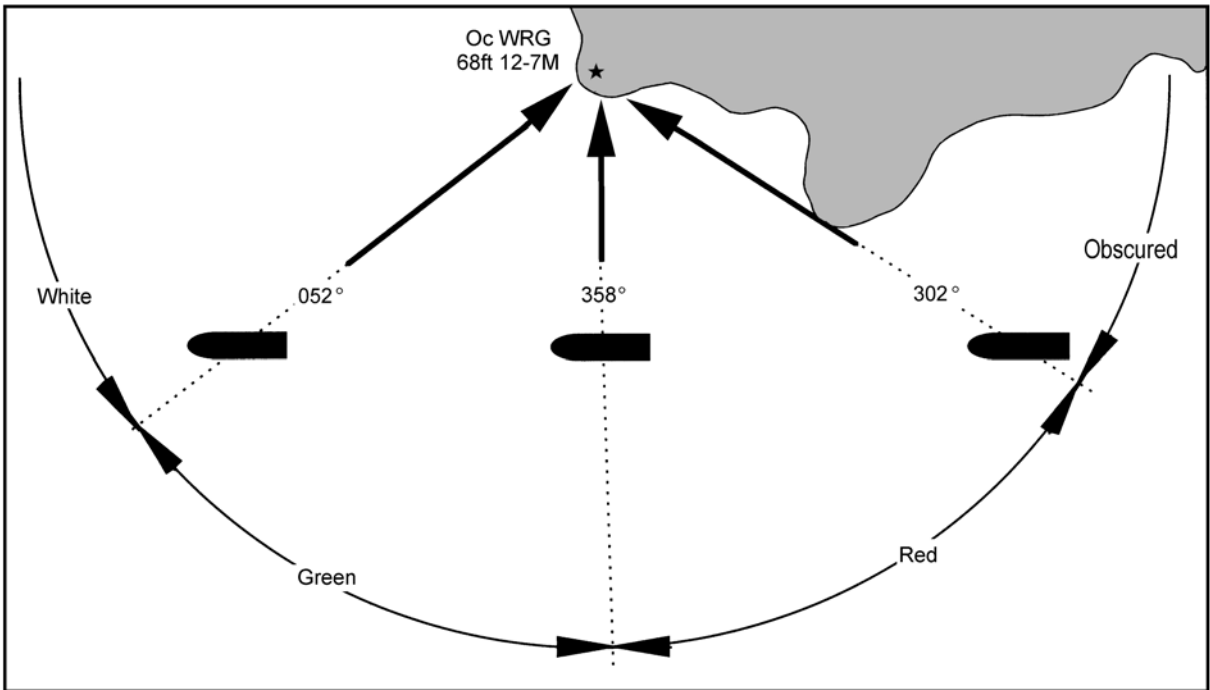
Aeromarine lights—marine-type lights for which part of the beam is deflected to an angle of 10 to 15 degrees above the horizon to facilitate use by aircraft.

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.



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."

Russian lightships are on station during periods of navigation and leave their stations only when forced to because of ice and are then replaced as soon as possible. Lightships by day show a ball over a yellow flag with a blue St. George's cross. If a vessel is seen standing 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 the 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 International Code signal "LO" or will show a

red and a white flare-up light or flash simultaneously at least every 15 minutes.

Red flags 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.

Relief lightships are painted red, 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 *Russian* lighthouses and lightships are sounded, unless stated otherwise, 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.

Due to a lack of information it is not possible to ensure that the details of navigational aids are correct.

In *France*, *Lebanon* and *Tunisia* lights may be shown by day in poor visibility.

In *Spain* and *Morocco* lights are shown from 15 minutes after sunset until 15 minutes before sunrise.

Oil rigs in *Angolan* waters marked by Mo(U) W 18s Siren 20s are moored inside the 600 fathom contour. Such lights are not included in this list.

It has been reported that the lights of *Guinea* and *Liberia* are unreliable.

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:

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;

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;

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;

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

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;

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.

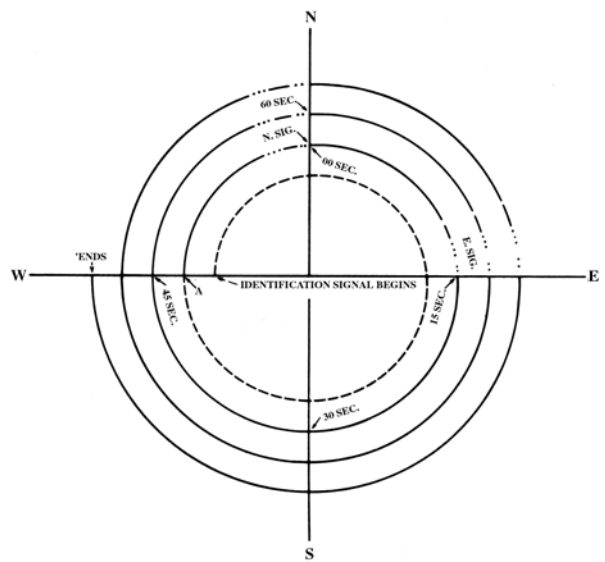
(A correction must, of course, be made for convergency; this should be applied as if the beacon were a shore radio direction-finder station.)

(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

West Coast of France

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
FRANCE-WEST COAST							
ILE D'OUessant:							
4 A 1844	-Pointe de Creach.	48° 27.6' N 5° 07.8' W	Fl.(2)W. period 10s fl. 0.1s, ec. 2.4s fl. 0.1s, ec. 7.4s	230 70	32	White tower, black bands; 180.	Obscured 247°-255°. Horn: 2 bl. ev. 120s (bl. 2s, si. 3s, bl. 2s, si. 113s).
	-RACON		C(- - -)				Azimuth coverage 355°-275°.
8	-Traffic Separation Scheme, <i>NE. buoy.</i>	48° 59.5' N 5° 24.0' W	L.Fl.W. period 10s fl. 3s, ec. 7s			SAFE WATER RW, pillar.	AIS (MMSI No 992271304). Whistle.
	-RACON		B(- - -)		20		(3 cm)
12	--SW. LANBY.	48° 30.0' N 5° 45.0' W	Fl.W. period 4s fl. 0.5s, ec. 3.5s	33 10	7	SAFE WATER RW.	AIS (MMSI No 992271301).
	--RACON		M(- -)		10		
16 A 1842	-Le Stiff.	48° 28.5' N 5° 03.4' W	Fl.(2)R. period 20s fl. 0.7s, ec. 4.3s fl. 0.7s, ec. 14.3s	279 85	24	Two adjoining white towers; 105.	Radar tower 0.2 mile N. marked by Q.W. by day and F.R. by night.
18 A 1843	-Port du Stiff, E. mole, head.	48° 28.2' N 5° 03.2' W	Dir.Q.W.R.G.	36 11 G. 7	W. 10 R. 7 G. 7	White tower, green top; 20.	G. 251°-254°, W.-264° R.- 267°, obsc.-251°.
20 A 1846	-Nividic.	48° 26.8' N 5° 09.1' W	V.Q.(9)W. period 10s	92 28	10	Gray octagonal tower; 118. Helicopter platform.	Obscured by Ile d'Ouessant 225°-290°.
24 A 1848	-La Jument.	48° 25.3' N 5° 08.0' W	Fl.(3)R. period 15s fl. 0.3s, ec. 2.7s fl. 0.3s, ec. 2.7s fl. 0.3s, ec. 8.7s	118 36	22	Gray octagonal tower, red top; 157.	Obscured 199°-241°.
28 A 1852	-Men-Korn.	48° 28.0' N 5° 01.4' W	V.Q.(3)W.R. period 5s	68 21	8	E. CARDINAL BYB, tower, topmark; 95.	W. 145°-040°, R.-145°.
38 A 1850	Men-Tensel (Kereon).	48° 26.3' N 5° 01.6' W	Oc.(2+1)W.R. period 24s lt. 9s, ec. 1s lt. 9s, ec. 1s lt. 3s, ec. 1s	125 38	W. 17 R. 7	Gray tower; 134.	W. 019°-248°, R.-019°. Danger signals. Horn: 3 bl. ev. 120s (bl. 4s, si. 3s, bl. 2s, si. 51s, bl. 4s, si. 56s).
40 A 1870	Les Trois Pierres, NE. of Molene.	48° 24.7' N 4° 56.8' W	Iso.W.R.G. period 4s	49 15 G. 6	W. 9 R. 6 G. 6	White column; 52.	G. 070°-147°, W.-185°, R.- 191°, G.-197°, W.-213°, R.-070°.
44 A 1871	Ile Molene, mole, head.	48° 23.9' N 4° 57.3' W	Dir.Fl.(3)W.R.G. period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	19 6 G. 7	W. 9 R. 7 G. 7	Column on hut; 16.	G. 183°-190°, W.-192°, R.- 203°.
			Dir.Fl.(2)W.R.G. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	29 9 G. 7	W. 9 R. 7 G. 7		G. 252°30'-259°30', W.- 262°30', R.-269°30'.
48 A 1854	Le Four.	48° 31.4' N 4° 48.3' W	Fl.(5)W. period 15s fl. 0.4s, ec. 1.7s fl. 0.4s, ec. 1.7s fl. 0.4s, ec. 1.7s fl. 0.4s, ec. 1.7s fl. 0.4s, ec. 6.2s	92 28	22	Gray truncated conical tower; 92.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
FRANCE-WEST COAST							
52 A 1856	Aber Ildut.	48° 28.3' N 4° 45.6' W	Dir.Oc.(2)W.R. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	40 12	W. 25 R. 20	White buildings; 16.	W. 081°-085°, R.-087°.
56 A 1862	Le Faix.	48° 25.8' N 4° 53.9' W	V.Q.W.	52 16	8	N. CARDINAL BY, tower, topmark; 69.	
76 A 1873.9	Trezien.	48° 25.4' N 4° 46.8' W	Dir.Oc.(2)W. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	276 84	20	Gray truncated conical tower, white on S. side; 121.	Intensified from 003°-011° over range 007° with Kermovan.
80 A 1876	Pointe de Corsen.	48° 24.9' N 4° 47.7' W	Dir.Q.W.R.G.	108 33	W. 12 R. 8 G. 8	White hut and walls; 10.	R. 008°-012°, W.-015°, G.- 021°. F.R. obstruction light on mast 400 meters ESE. Signal station.
84 A 1874	Kermovan.	48° 21.7' N 4° 47.4' W	Fl.W. period 5s fl. 0.3s, ec. 4.7s	66 20	22	White square tower; 66.	In line 158°30' with St. Mathieu Point, 007° with Trezien, and 137°54' with Lochrist. Obscured beyond Pointe de Saint Mathieu 260°- 341°.
88 A 1880	Lochrist.	48° 20.6' N 4° 45.9' W	Dir.Oc.(3)W. period 12s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 4.5s, ec. 1.5s	161 49	22	White octagonal concrete tower, red top; 56.	Intensified 135°24'-140°24'. In line 137°54' with Kermovan.
92 A 1872	La Grande Vinotiere.	48° 22.0' N 4° 48.5' W	L.Fl.R. period 10s fl. 3s, ec. 7s	49 15	5	Red octagonal tower; 62.	
104 A 1874.1	St. Mathieu.	48° 19.8' N 4° 46.3' W	Fl.W. period 15s fl. 0.2s, ec. 14.8s	184 56	29	White truncated conical tower, red top; 121.	Radiobeacon.
			Dir.F.W.	177 54	28		Intensified 157°30'-159°30' over range 158° with Kermovan.
108 A 1875	-Auxiliary, about 54 meters 291° from St. Mathieu.	48° 19.9' N 4° 46.2' W	Q.W.R.G.	85 26	W. 12 R. 8 G. 8	White tower.	G. 085°-107°, W.-116°, R.- 134°.
112 A 1884	Les Vieux Moines, Pointe de St. Mathieu, SW. head.	48° 19.4' N 4° 46.5' W	Fl.R. period 4s fl. 1s, ec. 3s	53 16	5	Red octagonal tower; 62.	Visible 280°-133°.
116 A 1886	Les Pierres Noires.	48° 18.7' N 4° 54.9' W	Fl.R. period 5s fl. 0.4s, ec. 4.6s	89 27	19	White truncated conical tower, red top; 92.	
136 D 0820	La Parquette.	48° 15.9' N 4° 44.3' W	Fl.R.G. period 4s fl. 1s, ec. 3s	56 17	6	White octagonal tower, black diagonal stripes; 82.	R. 244°-285°, G.-244°.
140 D 0818	Pointe du Toulinguet.	48° 16.8' N 4° 37.8' W	Oc.(3)W.R. period 12s lt. 4.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s	161 49	W. 15 R. 11	White square tower, on building; 46.	W. shore-028°, R.-090°, W.- shore.
144 D 0816	Camaret-Sur-Mer, N. mole extension.	48° 16.9' N 4° 35.5' W	Iso.W.G. period 4s	23 7	W. 12 G. 9	White and green pylon; 23.	W. 135°-182°, G.-027°.
148 D 0817	-S. mole.	48° 16.7' N 4° 35.4' W	Fl.(2)R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	29 9	5	Red pylon; 26.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
FRANCE-WEST COAST							
152 D 0790	Pointe du Petit-Minou.	48° 20.2' N 4° 36.9' W	Fl.(2)W.R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	105 32	W. 19 R. 15	Gray tower, white on SW. side, red top; 85.	R. shore 252°, W.-260°, R.- 307°, W. (unint.)-015°, W.- 065°30', obsc.-070°30', W.-shore.
-	-	-	Dir.Q.W.	98 30	23	Same tower; 72.	Intensified 067°18'-068°48'. In range 068° with Pointe du Portzic light.
-	-	-	F.G.	-	-	-	Fog detection light, 420 meters NW.
154 D 0792	Roche Mengam, in Goulet de Brest.	48° 20.4' N 4° 34.5' W	Fl.(3)W.R. period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	36 11	W. 11 R. 8	ISOLATED DANGER BRB, tower beacon, topmark; 49.	R. 034°-054°, W.-034°.
156 D 0794	I.F.R.E.M.E.R., dolphin, SE. side.	48° 21.6' N 4° 33.0' W	Fl.R. period 2s fl. 0.4s, ec. 1.6s	16 5	2	Gray dolphin; 7.	
160 D 0790.1	Pointe Du Portzic.	48° 21.6' N 4° 32.0' W	Oc.(2)W.R. period 12s lt. 2.5s, ec. 1.5s lt. 6.5s, ec. 1.5s	184 56	W. 19 R. 15	Gray octagonal tower; 115.	Visible W. of Le Goulet 041°- 069° R. 219°-259°, W.-338°, R.- 000°, W.-065°30', obsc.- 070°30', W.-219°.
-	-Directional light.	-	Dir.Q.W.	177 54	22	-	Intensified 065°-071°.
-	-	-	Dir.Q.(6)+L.Fl.W. period 15s	177 54	23	-	Intensified 045°-050°.
BREST:							
-Rade-Abri:							
176 D 0798	--E. breakwater, head.	48° 22.2' N 4° 29.2' W	Q.G.	33 10	6	White tower, green top; 33.	
178 D 0796	--W. breakwater, head.	48° 22.1' N 4° 29.5' W	Q.R.	33 10	6	White tower, red top; 30.	
180 D 0799	--Range, front.	48° 22.8' N 4° 29.5' W	V.Q.W.R.G.	79 24	W. 10 R. 5 G. 5	White round tower.	G. 334°-342°, W.-346°, R.- 024°.
180.1 D 0799.1	---Rear, 118 meters 344° from front.	48° 22.4' N 4° 29.4' W	Dir.V.Q.W.	105 32	10	On building.	Intensified 342°-346°.
182 D 0801	--Jean-Bart Quay Range, front.	48° 22.9' N 4° 29.9' W	Dir.Iso.R. period 5s	30 9		White pylon with red top; 26.	Intensified 309°-319°.
182.1 D 0801.1	---Rear, 17 meters 314° from front.	48° 22.9' N 4° 30.0' W	Dir.Iso.R. period 5s	52 16		E. corner of building; 49.	Intensified 309°-319°. Synchronized with front.
-Commercial Port:							
184 D 0806	--Breakwater, W. entrance, S. side.	48° 22.6' N 4° 29.1' W	Iso.G. period 4s	33 10	6	White tower, green top; 33.	
188 D 0804	--W. jetty, head.	48° 22.7' N 4° 29.0' W	Iso.R. period 4s	33 10	7	White column, red top; 36.	
192 D 0802	--Detached breakwater, E. entrance, S. side.	48° 22.7' N 4° 28.5' W	Oc.(2)R. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	26 8	6	White pylon, red top; 23.	
196 D 0803	--W. jetty, head.	48° 22.8' N 4° 28.6' W	Oc.(2)G. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	26 8	7	White tower, green top; 29.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
FRANCE-WEST COAST							
POINTE DE L'ILE LONGUE							
200 <i>D 0814.5</i>	-Range, front.	48° 18.4' N 4° 30.1' W	F.R.				Occasional.
200.1 <i>D 0814.51</i>	-- Rear, 60 meters 281° from front.	48° 18.4' N 4° 30.1' W	F.R.				Occasional.
BAIE DE DOUARNENEZ:							
208 <i>D 0829</i>	-Basse Vielle Buoy.	48° 08.3' N 4° 35.7' W	Fl.(2)W. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s			ISOLATED DANGER BRB, pillar, topmark.	Whistle. Radar reflector.
212 <i>D 0826</i>	-Pointe de Morgat.	48° 13.2' N 4° 29.9' W	Oc.(4)W.R.G. period 12s lt. 5s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s	253 77	W. 15 R. 11 G. 10	White square tower, dwelling, red top; 50.	W. north shore-281°, G.-301°, W.-021°, R.-043°, obscured on bearings greater than 027°.
-Douarnenez:							
220 <i>D 0830</i>	--Ile Tristan.	48° 06.2' N 4° 20.3' W	Oc.(3)W.R. period 12s lt. 4.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s	115 35	W. 13 R. 10	Gray tower, white band, black top; 35.	R. 138°-153°, W. elsewhere.
224 <i>D 0831</i>	--Bassin Nord, N. mole, head.	48° 06.0' N 4° 19.3' W	Iso.G. period 4s	30 9	4	White and green pylon; 26.	
228 <i>D 0831.2</i>	---S. mole, head.	48° 05.9' N 4° 19.3' W	Oc.(2)R. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	19 6	6	White and red pylon; 15.	
232 <i>D 0832</i>	--Rosmeur, mole.	48° 05.9' N 4° 19.3' W	Oc.G. period 4s lt. 3s, ec. 1s	20 6	6	White column with green top; 19.	Visible 170°-097°.
236 <i>D 0834</i>	--Treboul, Epi de Biron.	48° 06.1' N 4° 20.4' W	Q.G.	23 7	6	White column with green top; 22.	
240 <i>D 0836</i>	-Point du Millier.	48° 05.9' N 4° 27.9' W	Oc.(2)W.R.G. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	112 34	W. 16 R. 12 G. 11	White dwelling; 26.	G. 080°-087°, W.-113°, R.-120°, W.-129°, G.-148°, W.-251°, R.-258°.
CHAUSEE DE SEIN:							
248 <i>D 0852</i>	-Ar-Men.	48° 03.0' N 4° 59.8' W	Fl.(3)W. period 20s fl. 0.4s, ec. 3.6s fl. 0.4s, ec. 3.6s fl. 0.4s, ec. 11.6s	94 29	23	White tower, dark base, black top; 120.	
252 <i>D 0856</i>	-Ile de Sein.	48° 02.6' N 4° 52.1' W	Fl.(4)W. period 25s fl. 0.1s, ec. 2.9s fl. 0.1s, ec. 2.9s fl. 0.1s, ec. 2.9s fl. 0.1s, ec. 15.9s	161 49	29	White tower, black top; 167.	
			Dir.Q.W.R.G.		W. 8 R. 6 G. 6		G. 267°-269°, W.-271°, R.-275°.
256 <i>D 0860</i>	-Men-Brial.	48° 02.3' N 4° 51.0' W	Oc.(2)W.R.G. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	52 16	W. 12 R. 9 G. 7	White and green tower; 45.	G. 149°-186°, W.-192°, R.-221°, W.-227°, G.-254°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
FRANCE-WEST COAST							
RAZ DE SEIN:							
268 <i>D 0862</i>	-Le Chat.	48° 01.5' N 4° 48.8' W	Fl.(2)W.R.G. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	90 27	W. 9 R. 6 G. 6	Black tower, yellow top; 102.	G. 096°-215°, W.-230°, R.- 271°, G.-286°, R.-096°. Radar reflector.
272 <i>D 0870</i>	-La Vielle.	48° 02.5' N 4° 45.4' W	Oc.(2+1)W.R.G. period 12s lt. 4s, ec. 1s lt. 4s, ec. 1s lt. 1s, ec. 1s	108 33	W. 18 R. 13 G. 14	Gray tower, black top; 88.	W. 290°-298°, R.-325°, W.- 355°, G.-017°, W.-035°, G.-105°, W.-123°, R.- 158°, W.-205°. Horn: 3 bl. ev. 60s (bl. 2s, si. 3s, bl. 5s, si. 23s, bl. 2s, si. 25s).
274	<i>Chaussee de Sein Buoy.</i>	48° 03.8' N 5° 07.7' W	V.Q.(9)W. period 10s			W. CARDINAL YBY, pillar, topmark.	AIS. Whistle. Radar reflector.
	RACON		B(-••••) period 150s		10		(3 cm)
276 <i>D 0866</i>	--Tevennec.	48° 04.3' N 4° 47.6' W	Q.W.R. Dir.FI.W. period 4s fl. 1s, ec. 3s	92 28	W. 9 R. 6	White square tower, dwelling; 49.	R. 345°-090°, W.-345°. Intensified 324°-332°. Auxiliary light.
284 <i>D 0872</i>	La Plate.	48° 02.4' N 4° 45.5' W	V.Q.(9)W. period 10s	62 19	8	W. CARDINAL YBY, tower, topmark; 85.	
AUDIERNE:							
288 <i>D 0877.1</i>	-Kergadec.	48° 01.0' N 4° 32.8' W	Dir.Q.W.R.G. F.R.	141 43	W. 12 R. 9 G. 9	White octagonal tower, red top; 49.	G. 000°-005°18', W.-006°42', R.-017°. Intensified 321°-341°. In line 331° with Raoulic jetty light for Passe de l'Est.
292 <i>D 0875</i>	-Jetee de Ste. Evette, head.	48° 00.3' N 4° 33.1' W	Oc.(2)R. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	7 2	7	Red lantern; 3.	Visible 090°-000°.
296 <i>D 0877</i>	-Raoulic, jetty, head.	48° 00.6' N 4° 32.5' W	Fl.(3)W.G. period 12s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 6.5s	36 11	W. 14 G. 9	White tower; 35.	W. shore-034°, G.-shore.
300 <i>D 0874</i>	-Pointe de Lervily.	48° 00.1' N 4° 34.0' W	Fl.(3)W.R. period 12s	66 20	W. 14 R. 11	White round tower, red top; 40.	W. 211°-269°, R.-294°, W.- 087°, R.-121°.
304 <i>D 0884</i>	Pors-Poulhan, entrance, W. side.	47° 59.1' N 4° 28.0' W	Q.R.	45 14	9	White tower, red top; 19.	
308 <i>D 0890</i>	Pointe de Penmarc'h.	47° 47.9' N 4° 22.4' W	Fl.W. period 5s fl. 0.1s, ec. 4.9s	197 60	23	Gray octagonal tower; 213.	Horn: 1 bl. ev. 60s.
SAINT GUENOLE:							
312 <i>D 0886</i>	-Groumilli Range, front.	47° 48.2' N 4° 22.6' W	F.G.	30 9	9	Column, black and white bands, orange square; 36.	
316 <i>D 0886.1</i>	--Rear, 300 meters 123° from front.	47° 48.1' N 4° 22.4' W	F.G.	43 13	9	Column, black and white bands, orange square; 45.	
320 <i>D 0885</i>	-Entrance Range, front.	47° 49.1' N 4° 22.6' W	Q.R.	26 8	4	Red mast; 42.	
324 <i>D 0885.1</i>	--Rear, 51 meters 026°30' from front.	47° 49.1' N 4° 22.6' W	Q.R.	39 12	4	Mast, red and white bands; 33.	Synchronized with front.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
FRANCE-WEST COAST							
328 <i>D 0887</i>	-Range, front.	47° 48.8' N 4° 22.6' W	V.Q.W.	16 5	2	Platform on green and white metal mast.	
332 <i>D 0887.1</i>	--Rear, 320 meters 055°24' from front.	47° 48.9' N 4° 22.4' W	F.Vi.	49 15	1	Platform on green and white metal mast.	Visible 040°-070°.
336 <i>D 0893</i>	-Scoedec.	47° 48.5' N 4° 23.1' W	Fl.G. period 2.5s fl. 0.4s, ec. 2.1s	20 6	3	Green tower; 23.	
344 <i>D 0892</i>	La Menhir, Penmarc'h, W. extremity of rocks.	47° 47.8' N 4° 23.9' W	Fl.(2)W.G. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	62 19	W. 7 G. 4	Black and white tower; 69.	W. 315°-135°, G.-315°.
348 <i>D 0894</i>	Locarec Rock.	47° 47.3' N 4° 20.3' W	Iso.W.R.G. period 4s	36 11	W. 9 R. 6 G. 6	Metal column on rock; 26.	G. 063°-068°, R.-271°, W.-285°, R.-298°, G.-340°, R.-063°. Fl.R. and Fl.G. lights mark channel.
GUILVINEC:							
364 <i>D 0896</i>	-Mole de Lechiagat, entrance Range, front.	47° 47.3' N 4° 17.0' W	Q.W.	23 7	8	White pylon; 20.	Visible 233°-066°.
366 <i>D 0896.05</i>	--Middle, 210 meters 053° from front.	47° 47.5' N 4° 17.0' W	Q.W.G.	39 12	W. 14 G. 11	Red pylon, square daymark; 36.	W. 006°-293°, G.-006°. Synchronized with front.
368 <i>D 0896.1</i>	--Rear, 1043 meters 053° from front.	47° 47.8' N 4° 16.5' W	Dir.Q.W.	85 26	8	White tower, red stripe, red square daymark; 82.	Visible 051°30'-054°30'. Synchronized with front.
372 <i>D 0899</i>	-Mole de Lechiagat, head.	47° 47.5' N 4° 17.1' W	Fl.G. period 4s fl. 1s, ec. 3s	16 5	7	White hut, green top; 10.	Fl.(2)G. shown at head of spur.
376 <i>D 0900</i>	-Mole de Guilvinec.	47° 47.6' N 4° 17.0' W	Fl.R. period 4s fl. 1s, ec. 3s	36 11	9	White tower, upper part red; 33.	Fl.(2)R. shown at head of spur.
377 <i>D 0901</i>	-Spur mole.	47° 47.5' N 4° 17.1' W	Fl.(2)R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	13 4	5	Red structure; 7.	
380 <i>D 0898</i>	-Lost-Moan.	47° 47.1' N 4° 16.7' W	Fl.(3)W.R.G. period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	26 8	W. 9 R. 6 G. 6	White tower, red top; 42.	W. 268°-273°, G.-317°, W.-327°, R.-014°, G.-065°, R.-140°, W.-160°, R.-268°.
384 <i>D 0899.2</i>	-Epi.	47° 47.5' N 4° 17.0' W	Fl.(2)G. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	13 4	5	Green structure; 6.	Visible 078°-258°.
388 <i>D 0902</i>	Lesconil, on Men-ar-Groas Rock.	47° 47.8' N 4° 12.6' W	Fl.(3)W.R.G. period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	46 14	W. 10 R. 7 G. 7	White tower, green top; 36.	G. 268°-313°, W.-333°, R.-050°.
392 <i>D 0904</i>	-E. breakwater, head.	47° 47.8' N 4° 12.6' W	Q.G.	16 5	5	Round green tower; 13.	
393 <i>D 0904.5</i>	--Mole, head.	47° 47.7' N 4° 12.6' W	Oc.R. period 4s	16 5	6	White metal pylon, red top; 13.	
396	<i>Karek-Greis Whistle Buoy.</i>	47° 46.1' N 4° 11.4' W	Q.(3)W. period 10s			E. CARDINAL BYB, pillar, topmark.	Whistle.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
FRANCE-WEST COAST							
RIVIERE L'ABBE:							
400 <i>D 0906</i>	-Loctudy.	47° 49.9' N 4° 09.6' W	Fl.(4)W.R.G. period 12s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	41 12	W. 15 R. 11 G. 11	White round tower, red top; 43.	W. 115°-257°, G.-284°, W.- 295°, R.-318°, W.-328°, R.-025°.
408 <i>D 0909</i>	-Karek-Saoz.	47° 50.1' N 4° 09.3' W	Fl.R. period 2.5s fl. 0.5s, ec. 2s	10 3	1	Red truncated tower; 33.	Radar reflector.
412 <i>D 0910</i>	-Le Blas.	47° 50.3' N 4° 10.1' W	Fl.(4)G. period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	16 5	1	Green truncated column; 36.	
416 <i>D 0915</i>	-Pointe du Toulgoet.	47° 52.3' N 4° 06.8' W	Fl.R. period 2.5s fl. 0.5s, ec. 2s	7 2	1	Red mast; 12.	
BENODET:							
420 <i>D 0914.1</i>	-Pointe de Combrit, Odet River entrance, W. side.	47° 51.9' N 4° 06.7' W	Oc.(3+1)W.R. period 12s lt. 1s, ec. 1s lt. 1s, ec. 1s lt. 3s, ec. 1s lt. 3s, ec. 1s	62 19	W. 12 R. 9	White square tower, gray corners; 55.	R. 017°-325°, W.-017°. In line 000°30' with La Pyramide.
424 <i>D 0913.9</i>	-Pointe du Coq Range, front.	47° 52.3' N 4° 06.7' W	Dir.Oc.(2+1)G. period 12s lt. 4s, ec. 1s lt. 4s, ec. 1s lt. 1s, ec. 1s	36 11	17	White tower, green stripe; 44.	Intensified 1° on each side of range line.
428 <i>D 0914</i>	--La Pyramide, common rear, about 348 meters 345°30' from Pointe du Coq front.	47° 52.5' N 4° 06.9' W	Oc.(2+1)W. period 12s lt. 4s, ec. 1s lt. 4s, ec. 1s lt. 1s, ec. 1s	157 48	11	White truncated tower, green top; 128.	Visible 338°-016°. Synchronized with front.
432 <i>D 0923.4</i>	<i>Rouge de Glenan Whistle Buoy.</i>	47° 45.5' N 4° 03.9' W	V.Q.(9)W. period 10s			W. CARDINAL YBY, pillar, topmark.	Whistle. Radar reflector.
436 <i>D 0918</i>	Ile aux Moutons.	47° 46.5' N 4° 01.7' W	Iso.W.R.G. period 2s	59 18	W. 15 R. 11 G. 11	White square tower; 55.	R. 292°-035°, W.-050°, G.- 063°, W.-081°, R.-141°, W.-292°.
442 <i>D 0923.2</i>	-La Pie.	47° 43.8' N 3° 59.7' W	Fl.(2)W. period 6s	30 9	3	ISOLATED DANGER BRB, beacon, topmark.	
444 <i>D 0922</i>	Ile de Penfret.	47° 43.3' N 3° 57.2' W	Fl.R. period 5s fl. 0.2s, ec. 4.8s	118 36	21	White pyramidal tower, red top; 78.	
			Dir.Q.W.	112 34	11		Visible 295°-315°. Auxiliary light.
448 <i>D 0922.6</i>	<i>Basse Perennes Whistle Buoy.</i>	47° 41.1' N 4° 06.3' W	Q.(9)W. period 15s			W. CARDINAL YBY, pillar, topmark.	Whistle. Radar reflector.
452 <i>D 0922.4</i>	<i>Jument de Glenan Buoy.</i>	47° 38.8' N 4° 01.3' W	Q.(6)+L.Fl.W. period 15s			S. CARDINAL YB, pillar, topmark; 33.	Radar reflector.
456 <i>D 0922.2</i>	<i>Jaune de Glenan Buoy.</i>	47° 42.6' N 3° 49.9' W	Q.(3)W. period 10s			E. CARDINAL BYB, pillar, topmark; 23.	Radar reflector.
460 <i>D 0925</i>	Cap Coz, shelter mole, head.	47° 53.5' N 3° 58.1' W	Fl.(2)W.R.G. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	16 5	W. 7 R. 5 G. 5	Gray post, red lantern, on white hut; 10.	R. 346°-335°, G.-340°, W.- 346°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
FRANCE-WEST COAST							
464 <i>D 0925.4</i>	--Jetty extension, E. side.	47° 53.6' N 3° 58.1' W	Fl.G. period 4s fl. 1s, ec. 3s	26 8	1	Green lantern on gray post, white hut; 23.	
CONCARNEAU:							
468 <i>D 0936</i>	-Le Cochon.	47° 51.5' N 3° 55.5' W	Fl.(3)W.R.G. period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	16 5	W. 9 R. 6 G. 6	Green tower; 36.	R. 230°-352°, W.-048°, G.- 207°.
472 <i>D 0928</i>	-La Croix entrance Range, front.	47° 52.2' N 3° 55.1' W	Q.W.	46 14	13	White and red tower; 39.	Visible 006°30'-093°.
476 <i>D 0930</i>	-- Beuzec , rear, 2.3 km. 028°30' from front.	47° 53.3' N 3° 54.0' W	Dir.Q.W.	285 87	23	Belfry; 105.	Intensified 2° on either side of range line.
484 <i>D 0934</i>	-W. side of Lanriec Passage.	47° 52.3' N 3° 54.8' W	Oc.(2)W.R. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	13 4	W. 9 R. 6	Red tower; 16.	R. 209°-354°, W.-007°, R.- 018°, obscured elsewhere. Passage marked by lighted beacons.
486 <i>D 0935</i>	-Yacht Harbor.	47° 52.3' N 3° 54.7' W	Fl.(3)R. period 12s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 6.5s	10 3	1	PORT (A) R, post, topmark; 7.	Visible 018°-340°.
488 <i>D 0933</i>	-La Medee.	47° 52.1' N 3° 54.9' W	Fl.R. period 2.5s fl. 0.5s, ec. 2s	30 9	4	Red round tower; 52.	
492 <i>D 0932</i>	Lanriec, E. of Concarneau entrance.	47° 52.1' N 3° 54.6' W	Q.G.	43 13	8	White gable, green rectangular daymark; 25.	Visible 063°-078°.
496 <i>D 0940</i>	Baie de Pouldohan.	47° 51.0' N 3° 53.7' W	Fl.G. period 4s fl. 1s, ec. 3s	20 6	8	Green and white square tower; 20.	Visible 053°-065°.
498 <i>D 0942</i>	Dragon Rock.	47° 47.9' N 3° 53.3' W	V.Q.(9)W. period 10s		6	W. CARDINAL YBY, tower, topmark; 36.	
500 <i>D 0944</i>	Trevignon, breakwater.	47° 47.6' N 3° 51.3' W	Oc.(3+1)W.R.G. period 12s lt. 3s, ec. 1s lt. 3s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s	35 11	W. 14 R. 11 G. 11	White square tower, green top; 25.	R. 322°-351°, obsc.-004°, W.- 051°, G.-085°, W.-092°, R.-127°, obscured elsewhere.
TREVIGNON:							
504 <i>D 0945</i>	-Shelter, mole, head.	47° 47.7' N 3° 51.3' W	Fl.G. period 4s fl. 1s, ec. 3s	16 5	8	White column, green top; 13.	
508 <i>D 0946</i>	Port-Manech, (Pointe de Beg- ar-Vechen).	47° 48.0' N 3° 44.4' W	Oc.(4)W.R.G. period 12s lt. 5s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s	125 38	W. 10 R. 7 G. 7	White and red tower; 33.	W. 140°-296°, G.-303°, W.- 311, R.-328°, W.-050°, W. (unintensified)-140°.
512 <i>D 0950</i>	Brigneau.	47° 46.9' N 3° 40.2' W	Oc.(2)W.R.G. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	22 7	W. 12 R. 9 G. 9	White column, red top; 23.	G. 280°-329°, W.-339°, R.- 034°.
516 <i>D 0952</i>	Merrien, port, entrance, W. side.	47° 47.1' N 3° 39.0' W	Q.R.	85 26	7	White square tower, red top; 25.	Visible 004°-009°.
520 <i>D 0954</i>	Doelan Range, front.	47° 46.3' N 3° 36.5' W	Oc.(3)W.G. period 12s lt. 4.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s	65 20	W. 13 G. 10	White tower, green band and top; 49.	G. 305°-314°, W. elsewhere.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
FRANCE-WEST COAST							
524 <i>D 0954.1</i>	-Rear, 326 meters 013°48' from front.	47° 46.5' N 3° 36.3' W	Q.R.	88 27	9	White tower, red band and top; 45.	
526 <i>D 0961</i>	Lomener.	47° 42.3' N 3° 25.5' W	Dir.Q.W.R.G.	43 13	W. 10 R. 8 G. 8	White tower, red top; 30.	G. 349°12'-355°12', W.-359°12', R.-005°12'.
528 <i>D 0960</i>	Kerroch.	47° 42.0' N 3° 27.7' W	Oc.(2)W.R.G. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	72 22	W. 11 R. 8 G. 8	Truncated white tower, red top; 26.	R. 096°30'-112°30', G.-132°, R.-302°, W.-096°30'.
ILE DE GROIX:							
532 <i>D 0962</i>	-Pen-Men.	47° 38.9' N 3° 30.5' W	Fl.(4)W. period 25s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 15.8s	197 60	29	White square tower, black top; 92.	Visible 309°-275°.
536 <i>D 0964</i>	-Port Trudy, E. mole, head.	47° 38.7' N 3° 26.8' W	Fl.(2)R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	36 11	7	White round tower, red top; 33.	Visible 112°-226°.
540 <i>D 0966</i>	--N. mole, head.	47° 38.7' N 3° 26.7' W	Iso.G. period 4s	39 12	7	White round tower, green top; 33.	
544 <i>D 0968</i>	-Pointe de la Croix, island, E. point.	47° 38.1' N 3° 25.0' W	Oc.W.R. period 4s lt. 3s, ec. 1s	52 16	W. 12 R. 9	Red lantern on white masonry base; 14.	W. 169°-336°, R.-345°, W.-353°, obscured elsewhere.
548 <i>D 0970</i>	-Pointe des Chats.	47° 37.3' N 3° 25.3' W	Fl.R. period 5s fl. 0.4s, ec. 4.6s	52 16	19	White square tower, dwelling; 50.	
LORIENT AND PORT LOUIS:							
556 <i>D 0974</i>	-Les Trois Pierres.	47° 41.5' N 3° 22.5' W	Q.R.G.	36 11	6	Black octagonal tower, white bands, black top; 59.	G. 060°-196°, R.-002°, obscured elsewhere.
560 <i>D 0975</i>	-Ile aux Souris.	47° 42.2' N 3° 21.4' W	Dir.Q.W.G.	20 6	W. 3 G. 2	Green tripod, 20.	W. 041°30'-043°30', G.-041°30'.
565 <i>D 0971</i>	-Les Soeurs Range, front.	47° 42.2' N 3° 21.7' W	Dir.Q.W.	36 11	13	Red tower, white bands.	Intensified 042°30'-058°30', reduced range 4M 058°30'-042°30'.
565.1 <i>D 0971.1</i>	--Port-Louis , rear, 740 meters 057° from front.	47° 42.4' N 3° 21.3' W	Dir.Q.W.	72 22	18	Building, red and white bands.	
576 <i>D 0978</i>	-Passe de la Citadelle Range, front.	47° 43.5' N 3° 21.6' W	Dir.Q.G.	26 8	13	White tower, green top; 45.	Intensified 014°30'-017°30'.
580 <i>D 0978.1</i>	--Rear, 306 meters 016°30' from front.	47° 43.6' N 3° 21.5' W	Dir.Q.G.	46 14	13	White tower, green top; 62.	Intensified 014°30'-017°30'. Synchronized with front.
582 <i>D 0996.6</i>	-Ste. Catherine.	47° 43.6' N 3° 21.0' W	Q.G.	16 5	2	Green metal post; 26.	
584 <i>D 0985</i>	-Port Louis, jetty, NE. head.	47° 42.8' N 3° 21.3' W	Iso.G. period 4s	23 7	6	White truncated tower, green top; 22.	Visible 043°-301°.
588 <i>D 0984</i>	-Citadelle at Port Louis, channel, E. side.	47° 42.6' N 3° 21.9' W	Oc.G. period 4s lt. 3s, ec. 1s	20 6	6	Green tower; 35.	Visible 012°-192°.
592 <i>D 0982</i>	-La Petite Jument, channel, W. side.	47° 42.6' N 3° 21.9' W	Oc.R. period 4s lt. 3s, ec. 1s	16 5	6	Red tower; 40.	Visible 182°-024°.
596 <i>D 0986</i>	-Le Cochon, on rock, channel, W. side.	47° 42.8' N 3° 22.0' W	Fl.R. period 4s fl. 1s, ec. 3s	16 5	5	Red tower, green band; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
FRANCE-WEST COAST							
598 <i>D 0996.3</i>	-Marina, E. breakwater, head.	47° 43.2' N 3° 21.9' W	Q.(6)+L.FI.W. period 15s	13 4	1	Metal structure, yellow and black top.	
600 <i>D 0990</i>	-Keroman Range , front.	47° 43.6' N 3° 22.0' W	Dir.Oc.(2)R. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	82 25	15	Hut, red and white bands; 16.	Intensified 349°-351°.
604 <i>D 0990.1</i>	--Rear, about 92 meters 350° from front.	47° 43.7' N 3° 21.9' W	Dir.Oc.(2)R. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	102 31	15	Gray metal pylon, red top, red and white bands daymark; 39.	Intensified 349°-351°. Synchronized with front.
608 <i>D 0994</i>	-Keroman, fishing port, S.E. mole, head.	47° 43.7' N 3° 21.8' W	FI.R.G. period 4s fl. 1s, ec. 3s	23 7	6	White truncated tower, green top; 23.	G. 000°-235°, R.-000°. 2 Dir.Q.G. (occas.) in line 350° 260 meters W.
612 <i>D 0996</i>	-Kernevel Range , front.	47° 43.0' N 3° 22.4' W	Dir.Q.R.	33 10	15	Red and white pylon, red trapezoidal daymark; 33.	Intensified 2° each side of range line.
616 <i>D 0996.1</i>	--Rear, about 290 meters 217° from front.	47° 42.9' N 3° 22.4' W	Dir.Q.R.	59 18	15	White and red square tower; 51.	Intensified 2° each side of range line. Synchronized with front.
618 <i>D 0997</i>	-Pengarne.	47° 43.9' N 3° 21.1' W	FI.G. period 2.5s fl. 0.5s, ec. 2s	10 3	3	Green tower; 20.	
620 <i>D 0999</i>	-RoRo pier.	47° 44.4' N 3° 21.0' W	Q.R.	23 7	2	Red metal structure; 66.	
624 <i>D 0998</i>	-Pointe de l'Esperance.	47° 44.6' N 3° 20.6' W	Dir.Q.W.R.G.	26 8 8	W. 10 R. 8 G. 8	White tower, green top; 22.	G. 034°12'-036°42', W.- 037°12', R.-047°12'.
628 <i>D 1002.4</i>	-Pont Goeydon, E. bridge pier.	47° 45.1' N 3° 21.0' W	Dir.Iso.W.R.G. period 4s	20 6	W. 11 R. 9 G. 9	White rectangular hut; 13.	G. 350°-351°30', W.-352°30', R.-355°30'.
629 <i>D 1003</i>	-Citadelle of Port Louis.	47° 42.7' N 3° 21.8' W	Dir.Q.W.R.G.	46 14	W. 7 R. 5 G. 5		G. 168°-169.5°, W.-170.5°, R.- 173.5°.
632 <i>D 1012</i>	Etel, W. side of river entrance.	47° 38.7' N 3° 12.8' W	Oc.(2)W.R.G. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	43 13	W. 9 R. 6 G. 6	Red tower; 36.	W. 022°-064°, R.-123°, W.- 330°, G.-022°.
636 <i>D 1014</i>	Plateau de Birvideaux.	47° 29.2' N 3° 17.4' W	FI.(2)W. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	79 24	10	ISOLATED DANGER BRB, beacon; 118.	
BELLE ILE:							
640 <i>D 1032</i>	-Anse de Goulphar.	47° 18.7' N 3° 13.6' W	FI.(2)W. period 10s fl. 0.1s, ec. 2.4s fl. 0.1s, ec. 7.4s	285 87	27	Gray tower, red lantern; 170.	
644 <i>D 1030</i>	-Pointe des Poulains.	47° 23.3' N 3° 15.1' W	FI.W. period 5s fl. 0.4s, ec. 4.6s	111 34	23	White square tower and dwelling, red lantern; 60.	Obscured 291°-023°.
648 <i>D 1044</i>	-Sauzon.	47° 22.4' N 3° 13.1' W	Q.G.	30 9	5	White tower, green top; 30.	Visible 194°-045°.
652 <i>D 1045</i>	--NW. jetty, head.	47° 22.5' N 3° 13.0' W	FI.G. period 4s fl. 1s, ec. 3s	26 8	8	White truncated tower, green top; 15.	Visible 190°-078°.
656 <i>D 1046</i>	--SE. jetty, head.	47° 22.5' N 3° 13.0' W	FI.R. period 4s fl. 1s, ec. 3s	26 8	8	White truncated tower, red top; 15.	Visible 315°-272°.
660 <i>D 1042</i>	-Le Palais, N. jetty, head.	47° 20.8' N 3° 09.0' W	Q.G.	36 11	7	White tower, green top; 33.	Visible 168°-298°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
FRANCE-WEST COAST							
664 <i>D 1040</i>	--S. jetty, head.	47° 20.8' N 3° 09.1' W	Q.R.	36 11	7	White round tower, red lantern; 33.	Visible 170°-298°.
668 <i>D 1036</i>	-Pointe de Kerdonis.	47° 18.7' N 3° 03.5' W	Fl.(3)R. period 15s fl. 0.4s, ec. 2.6s fl. 0.4s, ec. 2.6s fl. 0.4s, ec. 8.6s	116 35	15	White square tower, dwelling, red top; 46.	
672 <i>D 1016</i>	S. side of Presqu'île de Quiberon.	47° 28.8' N 3° 07.5' W	Q.W.R.G.	92 28	W. 14 R. 10 G. 10	White tower, green lantern; 82.	R. 017°-051°, W.-081°, G.-098°, W.-143°, obsc.-246°, W.-252°, obsc.-291°, W.-297°, G.-340°, W.-017°.
676 <i>D 1015</i>	-Entrance Range, front.	47° 28.6' N 3° 07.2' W	Dir.Q.G.	16 5	16	White truncated tower, black band, black top; 42.	Intensified 005°-008°.
680 <i>D 1015.1</i>	--Rear, about 230 meters 006°30' from front.	47° 28.8' N 3° 07.2' W	Dir.Q.G.	42 13	17	White truncated tower, black band, black top; 36.	Intensified 005°-008°.
684 <i>D 1017</i>	-Breakwater, S. entrance.	47° 28.5' N 3° 07.4' W	Oc.(2)R. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	30 9	7	White tower, red lantern; 16.	
686 <i>D 1015.5</i>	--S.	47° 28.3' N 3° 07.3' W	Fl.R. period 2.5s	20 6	2	Red beacon; 33.	Visible 175°-047°.
688 <i>D 1018</i>	-E. mole, near N. entrance.	47° 28.6' N 3° 07.4' W	Iso.G. period 4s	30 9	7	White tower, green lantern; 23.	
PASSAGE DE LA TEIGNOUSE:							
692 <i>D 1022</i>	-La Teignouse.	47° 27.5' N 3° 02.8' W	Fl.W.R. period 4s fl. 1s, ec. 3s	66 20	W. 15 R. 11	White round tower and base, red top; 66.	W. 033°-039°, R.-033°.
720 <i>D 1082</i>	Ile Houat, St. Gildas, on N. mole.	47° 23.5' N 2° 57.4' W	Fl.(2)W.G. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	26 8	W. 9 G. 6	White tower, green top; 16.	W. 168°-198°, G.-210°, W.-240°, G.-168°.
724 <i>D 1084</i>	Ile de Hoedic, Port of l'Argol.	47° 20.7' N 2° 52.5' W	Fl.W.G. period 4s fl. 1s, ec. 3s	33 10	W. 9 G. 6	White support, green top; 23.	W. 143°-163°, G.-183°, W.-194°, G.-143°.
728 <i>D 1086</i>	Les Grands Cardinaux, on Groguegues Rock, SE. of Ile Hoedic.	47° 19.3' N 2° 50.1' W	Fl.(4)W. period 15s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	92 28	13	Red round tower, white band; 89.	
PORT HALIGUEN:							
732 <i>D 1026.2</i>	-New breakwater, head.	47° 29.4' N 3° 06.0' W	Oc.(2)W.R. period 6s lt. 1s, ec. 1s lt. 3s, ec. 1s	33 10	W. 11 R. 8	White truncated tower, red top; 26.	W. 233°-240°30', R.-299°, W.-306°, R.-233°.
736 <i>D 1026</i>	-Old breakwater, head.	47° 29.3' N 3° 06.0' W	Fl.R. period 4s fl. 1s, ec. 3s	33 10	5	White tower, red top; 23.	Visible 322°-206°.
740 <i>D 1026.4</i>	-Pier, NW. side of entrance.	47° 29.4' N 3° 06.1' W	Fl.G. period 2.5s fl. 0.5s, ec. 2s	30 9	6	White structure, green top; 30.	
744 <i>D 1027</i>	-Pier.	47° 29.3' N 3° 06.0' W	Fl.Vi. period 2.5s fl. 0.5s, ec. 2s	16 5	5	Purple pipe; 10.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
FRANCE-WEST COAST							
CRACH:							
752 D 1050	-Entrance Range, front.	47° 34.1' N 3° 00.4' W	Q.W.R.G.	36	W. 10 R. 7 G. 7	White truncated tower, green top; 20.	G. 321°-345°, W.-013°30', R.-080°, obsc.-321°.
756 D 1050.1	-- Kernavest , rear, about 560 meters 347° from front.	47° 34.5' N 3° 00.3' W	Q.W.	69 21	15	White round tower, green top; 49.	Intensified 337°-357°. Synchronized with front.
760 D 1051	-812 meters 105° from La Trinite-sur-Mer.	47° 35.1' N 3° 01.0' W	Dir.Oc.W.R.G. period 4s lt. 3s, ec. 1s	30	W. 13 R. 11 G. 11	White tower; 20.	G. 345°-346°, W.-348°, R.-349°.
764 D 1052	La Trinite-sur-Mer, wharf, head.	47° 35.1' N 3° 01.5' W	Oc.(2)W.R. period 6s lt. 1s, ec. 1s lt. 3s, ec. 1s	20 6	W. 9 R. 6	White tower, red top; 19.	R. 090°-293°30', W.-300°30', R.-329°, obsc.-090°. Iso.R. 4s light shown from head of wharf 274 meters N.
768 D 1054	Port Navalo.	47° 32.9' N 2° 55.1' W	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	104 32	W. 15 R. 11 G. 11	White round tower; 62.	W. 359°-015°, R.-105°, obsc.-155°, W.-220°, obsc.-317°, G.-359°.
769 D 1054.5	-Riviere D'Auray, Gregan.	47° 33.9' N 2° 55.1' W	Q.(6)+L.Fl.W. period 15s	10 3	7	S. CARDINAL YB, tower, topmark.	
772	<i>Plateau de la Recherche.</i>	47° 25.6' N 2° 50.4' W	Q.(9)W. period 15s			W. CARDINAL YBY, pillar, topmark.	
776 D 1056	Saint Jacques en Sarzeau, mole, head.	47° 29.2' N 2° 47.5' W	Oc.(2)R. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	23 7	6	White octagonal tower, red top; 16.	
780 D 1062	Le Pignon, entrance of Riviere de Penerf.	47° 30.1' N 2° 38.9' W	Fl.(3)W.R. period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	20 6	W. 9 R. 6	Red tower; 46.	R. 028°30'-167°, W.-175°, R.-349°30', W.-028°30'.
784 D 1060	Ile Dumet.	47° 24.7' N 2° 37.2' W	Fl.(3)W.R.G. period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	46 14	W. 7 R. 4 G. 4	White column, green top, on fort; 20.	W. 335°-090°, G.-272°, W.-285°, R.-335°.
VILAINE:							
788 D 1063	-Basse Bertrand.	47° 31.1' N 2° 30.7' W	Iso.W.G. period 4s	20 6	W. 9 G. 6	Green tower; 46.	W. 040°-054°, G.-227°, W.-234°, G.-040°.
792 D 1064	-Pointe de Penlan.	47° 31.0' N 2° 30.2' W	Oc.(2)W.R.G. period 6s lt. 1s, ec. 1s lt. 3s, ec. 1s	85 26	W. 15 R. 11 G. 11	White and red banded tower; 59.	G. 025°-052°, W.-060°, R.-138°, G.-180°, obsc.-292°30', R.-025°.
794 D 1062.5	-Basse de Kenoyal.	47° 30.4' N 2° 32.6' W	Dir.Q.W.R.	23 7	W. 6 R. 4	S. CARDINAL YB, tower, topmark; 39.	W. 269°-271°, R.-269°.
800 D 1066	-Pointe du Scal, S. side of river mouth, front.	47° 29.7' N 2° 26.8' W	Q.G.	25 8	4	Square green and white tower; 10.	
808 D 1072	Mesquer, jetty, inner end.	47° 25.3' N 2° 28.1' W	Oc.W.R.G. period 4s lt. 3s, ec. 1s	23 7	W. 10 R. 7 G. 7	White column, green top; 23.	W. 067°-072°, R.-102°, W.-118°, G.-067°.
812 D 1074	Piriac-sur-Mer, jetty, head.	47° 22.9' N 2° 32.7' W	Oc.(2)W.R.G. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	26 8	W. 10 R. 7 G. 7	White column; 26.	R. 066°-148°, G.-194°, W.-201°, R.-221°, obsc.-066°. Siren: (0.2 mile SW.) 1 bl. ev. 120s. Occas. (bl. 5s, si. 115s).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
FRANCE-WEST COAST							
PLATEAU DU FOUR:							
820 <i>D 1080</i>	-Le Four.	47° 17.9' N 2° 38.1' W	Fl.W. period 5s fl. 0.1s, ec. 4.9s	75 23	18	White round tower, black bands, green top; 89.	
824	-Bonon du Four Whistle Buoy.	47° 18.5' N 2° 39.3' W	Q.W.			N. CARDINAL BY, pillar.	Whistle. Radar reflector.
828	-Basse Capella Whistle Buoy.	47° 15.7' N 2° 44.8' W	Q.(9)W. period 15s			W. CARDINAL YBY, pillar, topmark.	Whistle. Radar reflector.
832	-Banc de Guerande Whistle Buoy.	47° 08.8' N 2° 42.8' W	V.Q.(6)+L.Fl.W. period 10s			S. CARDINAL YB, pillar, topmark.	Whistle. Radar reflector.
840	-Gouve-Vas du Four Shoal Buoy.	47° 14.9' N 2° 38.2' W	Q.(6)+L.Fl.W. period 15s			S. CARDINAL YB, pillar, topmark.	Radar reflector.
LA TURBALLE:							
844 <i>D 1076</i>	-Jeteo Ouest (Garlahy), head.	47° 20.7' N 2° 31.0' W	Fl.(4)W.R. period 12s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	43 13	W. 10 R. 7	White pylon red top; 36.	W. 315°-060°, R.-315°.
848 <i>D 1075.8</i>	-Entrance Range, front.	47° 20.8' N 2° 30.9' W	Dir.Iso.R. period 4s	36 11	3	Metal mast, orange top; 16.	Intensified 004°-009°.
852 <i>D 1075.81</i>	--Rear, 200 meters 006°30' from front.	47° 21.0' N 2° 30.8' W	Dir.Iso.R. period 4s	62 19	3	Metal structure, orange top; 39.	Intensified 004°-009°.
856 <i>D 1078</i>	-Digue Sud (Tourlandroux).	47° 20.8' N 2° 30.9' W	Fl.G. period 4s fl. 1s, ec. 3s	13 4	2	White tank, green top; 16.	(bl. 1 min.) Siren: (about 275 meters NE.) 1 bl. ev. 10 min.
LE CROISIC:							
860 <i>D 1088</i>	-Head of Trehic Jetty, W. side of entrance to port.	47° 18.5' N 2° 31.4' W	Iso.W.G. period 4s	39 12	W. 14 G. 11	Gray granite tower, green top; 39.	G. 042°-093°, W.-145°, G.-345°, obsc.-042°.
862 <i>D 1091</i>	-Basso Hergo.	47° 18.7' N 2° 31.6' W	Fl.G. period 2.5s fl. 0.5s, ec. 2s	16 5	2	STARBOARD (A) G, beacon, topmark; 39.	Radar reflector.
864 <i>D 1094</i>	-Grand Mabon.	47° 18.0' N 2° 31.0' W	Fl.(3)R. period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	20 6	2	Red tank and base; 26.	
868 <i>D 1090</i>	-Near beach Range, front.	47° 18.0' N 2° 31.0' W	Dir.Q.W.	33 10	13	White pylon, orange rectangular daymark; 39.	Intensified 154°-158°.
872 <i>D 1090.1</i>	--Rear, 116 meters 156° from front.	47° 17.9' N 2° 30.9' W	Dir.Q.W.	46 14	13	White pylon, green top, orange rectangular daymark; 49.	Intensified 154°-158°. Synchronized with front. Two Q.G. lights in range 174° shown inside entrance.
876 <i>D 1093</i>	-Range, front.	47° 17.9' N 2° 30.8' W	Dir.Q.R.	20 6	8	Red and white checkered pylon, red rectangular daymark; 20.	Intensified 125°30'-143°30'.
880 <i>D 1093.1</i>	--Rear, 52 meters 134°30' from front.	47° 17.9' N 2° 30.8' W	Dir.Q.R.	33 10	8	Red and white checkered pylon, red rectangular daymark; 33.	Intensified 125°30'-143°30'. Synchronized with front.
ESTUAIRE DE LA LOIRE:							
884 <i>D 1098</i>	-Le Pouliguen, jetty, head.	47° 16.4' N 2° 25.4' W	Q.R.	43 13	9	White column, red top; 49.	Visible 171°-081°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
FRANCE-WEST COAST							
888 <i>D 1100</i>	--Petit Impairs Tower.	47° 16.0' N 2° 24.6' W	Fl.(2)G. period 6s fl. 0.2s, ec. 1.4s fl. 0.2s, ec. 4.2s	20 6	2	Green tower; 26.	
892 <i>D 1102</i>	-Pornichet, S. breakwater.	47° 15.5' N 2° 21.1' W	Iso.W.R.G. period 4s	36 11	W. 10 R. 7 G. 7	White tower, green top; 33.	G. 303°-081°, W.-084°, R.-180°, obsc.-303°.
896 <i>D 1096</i>	-La Banche.	47° 10.6' N 2° 28.1' W	Fl.(2)W.R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	72 22	W. 15 R. 11	Black tower, white bands; 98.	R. 266°-280°, W.-266°.
912 <i>D 1150</i>	-Pointe de St. Gildas.	47° 08.0' N 2° 14.8' W	Q.W.R.G.	66 20	W. 14 R. 10 G. 10	Column on white house, green top; 56.	R. 264°-308°, G.-078°, W.-088°, R.-174°, W.-180°, G.-264°.
916 <i>D 1105.5</i>	-Port de la Gravette, breakwater, head.	47° 09.6' N 2° 12.7' W	Fl.(3)W.G. period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	23 7	W. 8 G. 5	White tower, green top; 20.	G. shore-124°, W.-138°, G.-183°, W.-188°, G.-shore.
920 <i>D 1105</i>	-Saint Michel-Chef-Chef, Port de Comberge, Jeteé Sud, head.	47° 10.5' N 2° 10.0' W	Fl.(2)W.G. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	23 7	W. 9 G. 6	White tower, green top; 16.	W. 123°-140°, G. elsewhere.
924 <i>D 1152</i>	-Ile du Pilier.	47° 02.6' N 2° 21.5' W	Fl.(3)W. period 20s fl. 0.1s, ec. 3.9s fl. 0.1s, ec. 3.9s fl. 0.1s, ec. 11.9s	108 33	29	Square gray tower; 112.	
	-Auxiliary light.		Q.R.	33 10	11		Visible 321°-034°.
928	<i>-Buoy S.N.1.</i>	47° 00.1' N 2° 39.8' W	L.Fl.W. period 10s			SAFE WATER RW, pillar, topmark.	Whistle.
	-RACON		Z(- - • •)				(3 cm)
944 <i>D 1104</i>	-Le Grande Charpentier, Chenal du Nord, N. side.	47° 12.8' N 2° 19.1' W	Q.W.R.G.	72 22	W. 14 R. 10 G. 10	Gray tower, green lantern; 89.	G. 020°-054°, W.-062°, R.-092°, W.-111°, R.-310°, W.-020°.
946	<i>-La Couronne Lightbuoy.</i>	47° 07.6' N 2° 20.1' W	Q.G.			STARBOARD (A) G, pillar, topmark.	Radar reflector.
	-RACON		(••••••••)		3		
948 <i>D 1106</i>	-Portce Range , front.	47° 14.6' N 2° 15.4' W	Dir.Q.W.	20 6	22	White column; 75.	Intensified 024°42'-026°12'.
952 <i>D 1106.1</i>	--Rear, 1,350 meters 025°30' from front.	47° 15.3' N 2° 14.9' W	Dir.Q.W.	118 36	24	White metal tower, white rectangular daymark; 62.	Intensified 024°-027°. Synchronized with front.
956 <i>D 1114</i>	-Pointe d'Aiguillon.	47° 14.6' N 2° 15.8' W	Oc.(3)W.R. period 12s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 4.5s, ec. 1.5s	89 27	W. 13 R. 10	White tower; 62.	R. 207°-233°, W.-293°, obsc.-297°, W.-300°, R.-327°, W.-023°, obsc.-027°, R.-069°.
960 <i>D 1104.4</i>	-Le Pointeau, Digue Sud, head.	47° 14.0' N 2° 10.9' W	Fl.W.G. period 4s fl. 1s, ec. 3s	13 4	W. 10 G. 7	White round tower, green top; 13.	G. 050°-074°, W.-149°, G.-030°, W.-050°.
962 <i>D 1104.2</i>	-Pointe de Mindin.	47° 16.2' N 2° 10.2' W	Fl.G. period 2.5s	20 6	3	White pylon.	
964 <i>D 1116</i>	--Villes-Martin, jetty, head.	47° 15.3' N 2° 13.7' W	Fl.(2)W. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	33 10	10	White tower, red top; 39.	
968 <i>D 1118</i>	-Les Morees, Banc des Morees, NE. point.	47° 15.1' N 2° 12.9' W	Fl.(3)W.R. period 12s	39 12	W. 6 R. 4	Green tower; 56.	W. 058°-224°, obsc.-300°, R.-058°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
FRANCE-WEST COAST							
-Saint-Nazaire:							
972 D 1122	--W. jetty, head.	47° 16.0' N 2° 12.2' W	Oc.(4)R. period 12s lt. 5s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s	36 11	8	White round tower, red top; 33.	
976 D 1124	--E. jetty.	47° 16.0' N 2° 12.1' W	Oc.(4)G. period 12s lt. 5s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s	36 11	11	White round tower, green top; 33.	Fl.R. and Fl.G. lights mark lock entrance 500m N. and channels between basins.
980 D 1126	--Old mole, head.	47° 16.3' N 2° 11.7' W	Q.(3)W. period 10s fl. 1.5s, ec. 1.5s fl. 1.5s, ec. 5.5s	59 18	11	White round turret, red top; 56.	Visible 153°30'-063°30'. Weather and traffic signals.
982 D 1127	--Old ferry dock.	47° 16.5' N 2° 11.8' W	Fl.(2)R. period 6s	16 5	1	Red pile; 30.	
984 D 1128	--Old dock entrance.	47° 16.5' N 2° 11.8' W	Fl.(3)R. period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	30 9	9	Red pylon; 23.	
985 D 1128.7	-- Bassin de Pehoet Range , front.	47° 17.1' N 2° 12.0' W	Dir.F.R.	75 23	17	Red beacon, white bands.	Visible 350°-345°. Occasional.
985.1 D 1128.8	-- Rear , 160 meters 344°06' from front.	47° 17.1' N 2° 12.1' W	Dir.F.R.	66 20	17	Red beacon, white bands.	Visible 340°-345°. Occasional.
986 D 1129	--Shipyard slipway.	47° 17.0' N 2° 10.9' W	Fl.(2)R. period 6s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 3.5s	16 5	1	White pylon; 10.	
988 D 1130	--Bridge.	47° 17.2' N 2° 10.2' W	Iso.W. period 4s	180 55		On bridge.	On upstream and downstream side marking center of channel.
992 D 1130.4	--Gron.	47° 17.7' N 2° 09.6' W	Iso.R. period 4s		2	Red column; 10.	
996 D 1131	--Le Village, No. 1.	47° 18.1' N 2° 08.8' W	Q.R.	23 7	8	Red and white tower; 13.	Visible 225°-135°.
1008 D 1137	--Arceau Oil Jetty.	47° 18.4' N 2° 05.4' W	Fl.R. period 4s	33 10	9	White pylon, red top; 26.	
1015 D 1138	--SW. dolphin.	47° 18.1' N 2° 05.0' W	Fl.(2)G. period 6s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 3.5s	39 12	2	Gray column and hut, green top; 36.	
1016 D 1139	--NE. dolphin.	47° 18.1' N 2° 04.8' W	Fl.(2)G. period 6s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 3.5s	39 12	2	Green column and hut; 33.	
-Donges:							
1024 D 1140	--Jetty, head.	47° 18.3' N 2° 04.2' W	Fl.(2)R. period 6s	29 9	9	Red tower; 26.	Visible 225°-135°.
1028 D 1142	--Paimboeuf, mole, head.	47° 17.4' N 2° 02.0' W	Oc.(3)W.G. period 12s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 4.5s, ec. 1.5s	29 9	W. 10 G. 7	White tower, green top; 29.	W. shore-123°, G.-shore.
BAIE DE BOURGNEUF:							
1031 D 1154.5	-Notre Dame.	47° 05.5' N 2° 08.2' W	V.Q.(9)W. period 10s	23 7	3	W. CARDINAL YBY, beacon, topmark; 36.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
FRANCE-WEST COAST							
1032 <i>D 1156</i>	-Pornic, entrance, W. side.	47° 06.6' N 2° 06.9' W	Oc.(4)W.R.G. period 12s lt. 1s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s lt. 5s, ec. 1s	75 23	W. 13 R. 9 G. 9	White square tower, green top, white dwelling; 49.	G. shore-051°, W.-079°, R.- shore.
1036 <i>D 1156.7</i>	-Port de Peche, N.	47° 06.9' N 2° 06.2' W	Q.R.	6 2	7	White post; 3.	
1040 <i>D 1156.72</i>	--South.	47° 06.9' N 2° 06.2' W	Q.G.	6 2	7	White post; 3.	
1044 <i>D 1155.2</i>	--Yacht basin, SW. jetty, head.	47° 06.4' N 2° 06.7' W	Fl.(2)R. period 6s fl. 0.2s, ec. 1.4s fl. 0.2s, ec. 4.2s	13 4	2	Black post, red top; 29.	
1048 <i>D 1155</i>	--SW. jetty, elbow.	47° 06.5' N 2° 07.0' W	Fl.W. period 2.5s fl. 0.5s, ec. 2s	13 4	3	Gray post; 3.	
1052 <i>D 1155.4</i>	--E. jetty, head.	47° 06.5' N 2° 06.7' W	Fl.(2)G. period 6s fl. 0.2s, ec. 1.4s fl. 0.2s, ec. 4.2s	13 4	2	Black post, green top; 29.	
1056 <i>D 1156.6</i>	-Jetee de Gourmalon.	47° 06.6' N 2° 06.5' W	Fl.(3)G. period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	13 4	7	White post, green top; 16.	
1060 <i>D 1156.8</i>	-La Bernerie-en-Retz, jetty, head.	47° 04.6' N 2° 02.4' W	Fl.R. period 2s fl. 0.4s, ec. 1.6s	13 4	5	White post, red top; 7.	
1064 <i>D 1157</i>	-Le Collet.	47° 01.8' N 1° 59.0' W	Oc.(2)W.R. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	23 7	W. 7 R. 5	White hut, red top; 20.	W. shore-093°, R.-shore. About 900 meters SW., 2 Q.G. lights form range 118°.
1068 <i>D 1160</i>	-Etier des Brochets.	46° 59.9' N 2° 01.9' W	Oc.(3)W.R.G. period 12s lt. 4s, ec. 1s lt. 4s, ec. 1s lt. 1s, ec. 1s	26 8	W. 10 R. 7 G. 7	Green tower, white band; 23.	G. 071°-091°, W.-102°30', R.- 116°30', W.-119°30', R.- 164°30', obsc.-071°.
1072 <i>D 1161</i>	-Bec de l'Epoids, bay, SE. shore.	46° 56.4' N 2° 04.5' W	Dir.Iso.W.R.G. period 4s	20 6	W. 10 R. 7 G. 7	White square tower, red top; 23.	G. 106°-113°30', R.-122° G.- 157°30', W.-158°30', R.- 171°30', W.-176°, obsc.- 106°.
ILE DE NOIRMOUTIER:							
1080 <i>D 1162</i>	-Pointe des Dames.	47° 00.7' N 2° 13.3' W	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	112 34	W. 19 R. 15 G. 15	White square tower; 62.	R. 057°-124°, G.-165°, W.- 191°, R.-267°, W.-357°, R.-016°30', G.-057°.
1084 <i>D 1164</i>	-Heaux Jetty, head.	46° 59.3' N 2° 13.1' W	Oc.(2)R. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	19 6	6	White column, red top; 23.	
1088 <i>D 1154</i>	-Pierre Moine Tower.	47° 03.4' N 2° 12.4' W	Fl.(2)W. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	46 14	7	ISOLATED DANGER BRB, topmark; 59.	
1092 <i>D 1153</i>	-Basse du Martroger.	47° 02.6' N 2° 17.1' W	Q.W.R.G.	36 11	W. 9 R. 6 G. 6	Yellow tower, black top, double cone topmark, points up; 53.	G. 033°-055°, W.-060°, R.- 095°, G.-124°, W.-153°, R.-201°, W.-240°, R.- 033°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
FRANCE-WEST COAST							
1096 <i>D 1166</i>	-L'Herbaudiere, jetty, head.	47° 01.6' N 2° 17.9' W	Oc.(2+1)W.G. period 12s lt. 4s, ec. 1s lt. 4s, ec. 1s lt. 1s, ec. 1s	29 9	W. 10 G. 7	White column, green top; 23.	W. 187°30'-190°, G.-187°30'. 2 Q.W. 7M in line 187°30' mark entrance to harbor.
1100 <i>D 1167</i>	--E. jetty, head.	47° 01.6' N 2° 17.9' W	Fl.(2)R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	26 8		4 Red tripod mast; 20.	
1102 <i>D 1165</i>	--Entrance Range, front.	47° 01.6' N 2° 17.8' W	Q.W.	16 5		7 Gray post, red top; 13.	Visible 098°-278°.
1102.1 <i>D 1165.1</i>	---Rear, 187°30' from front.	47° 01.4' N 2° 17.9' W	Q.W.	69 21		7 Gray post; 49.	Visible 098°-278°.
1104 <i>D 1168</i>	-Pointe du Devin, W. side of island.	46° 59.1' N 2° 17.6' W	Oc.(4)W.R.G. period 12s lt. 5s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s	33 10	W. 11 R. 8 G. 8	White hut and column, top green; 23.	G. 314°-028°, W.-035°, R.-134°, obsc.-314°.
GOULET DE FROMENTINE:							
1108	-Approach Bell Buoy.	46° 53.1' N 2° 11.4' W	L.Fl.W. period 10s fl. 3s, ec. 7s			SAFE WATER RW, spherical, topmark.	Radar reflector.
1112 <i>D 1170</i>	-Middle Tower.	46° 53.6' N 2° 09.6' W	Fl.(4)R. period 15s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	20 6		5 Red truncated tower; 39.	
1116 <i>D 1174</i>	-Bridge, W. head.	46° 53.5' N 2° 09.0' W	Iso.W. period 4s	105 32	18		On upstream and downstream sides marking the center of the channel.
1120 <i>D 1172</i>	-Pointe Notre Dame-de Monts.	46° 53.3' N 2° 08.5' W	Dir.Oc.(2)W.R.G. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	69 21	W. 13 R. 10 G. 10	White tower, black top; 33.	G. 000°-043°, W.-063°, R.-073°, W.-094°, G.-113°, W.-116°, R.-175°, G.-196°, R.-230°, obsc.-000°.
1124 <i>D 1189</i>	Saint-Jean-de-Monts, on jetty.	46° 47.1' N 2° 05.1' W	Fl.(2)R. period 6s fl. 0.2s, ec. 1.4s fl. 0.2s, ec. 4.2s	33 10		1 White post, red top; 29.	
ILE D'YEU:							
1128 <i>D 1176</i>	-Main.	46° 43.1' N 2° 22.9' W	Fl.W. period 5s fl. 0.1s, ec. 4.9s	184 56	24	White square tower, green lantern; 125.	
1132 <i>D 1178</i>	-Les Chiens Perrins, about 800 meters off NW. extremity of island.	46° 43.6' N 2° 24.6' W	Q.(9)W.G. period 15s	52 16	W. 7 G. 4	W. CARDINAL YBY, tower, topmark; 62.	G. 330°-350°, W.-200°, obsc.-330°.
1136 <i>D 1180</i>	-Joinville (Port-Breton), NW. jetty, head.	46° 43.8' N 2° 20.7' W	Oc.(3)W.G. period 12s lt. 4.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s	20 6	W. 11 G. 8	White octagonal turret, green top; 16.	G. shore-150°, W.-232°, G.-279°, W.-285°, G.-shore.
1140 <i>D 1183</i>	-Quai du Canada Range, front.	46° 43.7' N 2° 20.9' W	Q.R.	36 11		6 Pylon; 30.	Visible 169°-269°.
1140.1 <i>D 1183.1</i>	--Rear, about 85 meters 219° from front.	46° 43.6' N 2° 20.9' W	Q.R.	52 16		5 Mast; 49.	Visible 169°-269°.
1144 <i>D 1184</i>	-Quai du Canada, head.	46° 43.6' N 2° 20.8' W	Iso.G. period 4s	23 7		6 Truncated white tower, green top; 16.	Unintensified 337°-067°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
FRANCE-WEST COAST							
1148 <i>D 1186</i>	-Pointe des Corbeaux.	46° 41.4' N 2° 17.1' W	Fl.(2+1)R. period 15s fl. 0.4s, ec. 2s fl. 0.4s, ec. 5.9s fl. 0.4s, ec. 5.9s	82 25	20	White square tower, red top; 62.	Obscured by high land of Ile d'Yeu 083°-143°.
1152 <i>D 1188</i>	-La Meule, W. side of entrance.	46° 41.5' N 2° 20.6' W	Oc.W.R.G. period 4s lt. 3s, ec. 1s	30 9	W. R. G.	9 6 6	Red post on gray tower; 20. G. 007°30'-018°, W.-027°30', R.-041°30'.
SAINT-GILLES-SUR-VIE:							
1160 <i>D 1190</i>	-Croix de Vie Quay Range, front.	46° 41.9' N 1° 56.7' W	Q.W.	23 7	15	White square tower, red top; 23.	Intensified 033°30'-053°30'.
1164 <i>D 1190.1</i>	--Rear, 260 meters 043°30' from front.	46° 42.0' N 1° 56.6' W	Q.W.	92 28	15	White square tower, red top; 79.	Intensified 033°30'-053°30'. Synchronized with front.
1168 <i>D 1189.6</i>	-Pointe de Grosse Terre.	46° 41.6' N 1° 57.8' W	Fl.(4)W.R. period 12s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	82 25	W. R.	18 15	White truncated tower; 56. R. 290°-339°, W. -125°, R.- 145°, obsc.-290°.
1172 <i>D 1193</i>	-Jetee de la Garenne.	46° 41.6' N 1° 57.1' W	Fl.G. period 4s fl. 1s, ec. 3s	26 8	6	White tower, green top; 26.	Channel into port marked by lighted buoys.
1176 <i>D 1191</i>	-Jetee de Boisvinet.	46° 41.6' N 1° 57.2' W	Fl.R. period 4s fl. 1s, ec. 3s	26 8	6	Red column; 20.	
LES SABLES-D'OLONNE:							
1180 <i>D 1196</i>	-L'Armandeche.	46° 29.4' N 1° 48.3' W	Fl.(2+1)W. period 15s fl. 0.1s, ec. 2.5s fl. 0.1s, ec. 6.1s fl. 0.1s, ec. 6.1s	138 42	24	White hexagonal tower, red top; 128.	Visible 295°-130°.
1184 <i>D 1198</i>	-Les Barges.	46° 29.7' N 1° 50.4' W	Fl.(2)R. period 10s fl. 0.1s, ec. 2.4s fl. 0.1s, ec. 7.4s	82 25	13	Gray tower; 95. Helicopter platform.	Visible 265°-205°.
1196 <i>D 1207</i>	-L'Estacade Range, front.	46° 29.5' N 1° 46.3' W	Iso.W. period 4s	39 12	16	Metal post; 39.	
1200 <i>D 1207.1</i>	--Rear, 330 meters 033° from front.	46° 29.6' N 1° 46.1' W	Iso.W. period 4s	108 33	16	Square tower, white house; 66.	
1204 <i>D 1210</i>	-Entrance Range, front.	46° 29.7' N 1° 47.7' W	Iso.R. period 4s	20 6	9	White hut, red rectangular daymark; 20.	
1208 <i>D 1210.1</i>	--Rear, 65 meters 327° from front.	46° 29.8' N 1° 47.7' W	Dir.Iso.R. period 4s	30 9	9	White tower, red rectangular daymark; 29.	Visible 324°-330°.
1212 <i>D 1200</i>	-Jetee St. Nicolas, head.	46° 29.2' N 1° 47.5' W	Q.R.	52 16	8	White tower, red top; 46.	Visible 143°-094°.
1216 <i>D 1204</i>	-Jetee des Sables, head.	46° 29.4' N 1° 47.5' W	Q.G.	36 11	8	White tower with green top; 30.	
1220 <i>D 1204.1</i>	-Tour de La Chaume, W. side of entrance.	46° 29.7' N 1° 47.7' W	Q.W.	108 33	12	Gray square tower with battlements topped by small white column; 89.	On line 320° with Jetee des Sables Light.
1222 <i>D 1211</i>	-Bourgenay Range, front.	46° 26.4' N 1° 40.5' W	Q.G.	30 9	7	White tower, green rectangular daymark, white base.	Visible 020°-060°.
1222.1 <i>D 1211.1</i>	--Rear, 162 meters 040° from front.	46° 26.5' N 1° 40.4' W	Q.G.	62 19	7	White tower, green rectangular daymark, white border.	Visible 010°-070°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
FRANCE-WEST COAST							
PERTUIS DU BRETON:							
1240 D 1214	-Pointe Grouin du Cou.	46° 20.7' N 1° 27.8' W	Fl.W.R.G. period 5s fl. 0.4s, ec. 4.6s	94 29	W. 20 R. 16 G. 16	White octagonal sided tower, black lantern; 52.	R. 034°-061°, W.-117°, G.- 138°, W.-034°.
1244 D 1215	-La Tranche-sur-Mer, Estacade, estremity.	46° 20.6' N 1° 25.5' W	Fl.(2)R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	20 6	6	Red support; 13.	
1248	-Anse de l' Aiguillon Approach Buoy.	46° 15.8' N 1° 11.3' W	L.Fl.W. period 10s fl. 3s, ec. 7s			SAFE WATER RW, pillar, topmark.	Radar reflector.
1256 D 1242	-Port du Plomb, W. mole, head.	46° 12.4' N 1° 12.1' W	Fl.R. period 4s fl. 1s, ec. 3s	30 9	7	White column, red top; 39.	
1260 D 1216	-Haut Banc du Nord.	46° 15.8' N 1° 35.2' W	V.Q.W.	75 23	7	Gray tower, red top; 105.	
ILE DE RE:							
1268 D 1218	-Les Baleines.	46° 14.6' N 1° 33.7' W	Fl.(4)W. period 15s fl. 0.1s, ec. 2.4s fl. 0.1s, ec. 2.4s fl. 0.1s, ec. 2.4s fl. 0.1s, ec. 7.4s	174 53	27	Gray octagonal tower, red lantern; 187.	3 F.R. lights shown on semaphore tower 0.1 miles SW.
1272 D 1220	-Fier d'Ars.	46° 14.1' N 1° 28.7' W	Dir.Oc.W.R.G. period 4s lt. 3s, ec. 1s		W. 10 R. 7 G. 7		G. 257°30'-267°30', W.- 268°30', R.-274°30'.
1280 D 1223	-Ars-en-Re Range, front.	46° 12.8' N 1° 30.5' W	Q.W.	16 5	9	White hut, red lantern; 20.	
1284 D 1223.1	--Rear, 370 meters 232° from front.	46° 12.7' N 1° 30.7' W	Q.W.	42 13	11	White tower with green top, black rectangular daymark; 46.	Visible 142°-322°.
1286 D 1224	-Les Islattes.	46° 14.0' N 1° 23.3' W	Q.W.	43 13	3	Tower.	
1292 D 1226	-St. Martin, 100 meters SE. of entrance to port.	46° 12.5' N 1° 21.9' W	Oc.(2)W.R. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	59 18	W. 10 R. 7	White tower, red top; 43.	W. shore-245°, R.-281°, W.- shore.
1296 D 1228	--Mole, head.	46° 12.6' N 1° 21.9' W	Fl.G. period 2.5s	33 10	5	White tripod, green top; 23.	
1300 D 1230	-La Flotte, mole, head.	46° 11.3' N 1° 19.3' W	Fl.W.G. period 4s fl. 1s, ec. 3s	33 10	W. 12 G. 9	White turret, green top; 33.	G. 130°-205°, W.-220°, G.- 257°.
1304 D 1232	-Rivedoux-Plage Range, front, jetty, head.	46° 09.8' N 1° 16.6' W	Q.G.	20 6	6	White tower, green top; 16.	
1308 D 1232.1	--Rear, 100 meters 194°30' from front.	46° 09.7' N 1° 16.7' W	Q.G.	30 9	6	Two white posts, green top, green and white checkered daymark; 26.	Synchronized with front.
1312 D 1234	-Pointe de Sablanceaux, pier, head.	46° 09.8' N 1° 15.1' W	V.Q.(3)W. period 5s	33 10	5	E. CARDINAL BYB, post; 23.	
PERTUIS D'ANTIOCHE:							
1316 D 1240	-Pointe de Chanchardon, Ile de Re, reef, S. side.	46° 09.8' N 1° 28.3' W	Fl.W.R. period 4s fl. 1s, ec. 3s	49 15	W. 11 R. 8	Black octagonal tower, white base; 66.	R. 110°-290°, W.-110°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
FRANCE-WEST COAST							
1324 <i>D 1238</i>	-Pointe de Chauveau.	46° 08.0' N 1° 16.4' W	Oc.(3)W.R. period 12s lt. 4.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s	89 27	W. 15 R. 11	White tower, red top; 102.	W. 057°-094°, R.-104°, W.-342°, R.-057°.
-La Pallice:							
1328 <i>D 1244</i>	--Mole d'Escale, (Maritime Station).	46° 09.8' N 1° 14.3' W	Dir.Q.W.R.G.	108 33	W. 14 R. 13 G. 13	Gray tower; 118.	G. 009°-014°42', W.-017°18', R.-031°. Signal mast.
1332 <i>D 1244.6</i>	---NW. angle.	46° 09.9' N 1° 14.4' W	Fl.G. period 4s fl. 1s, ec. 3s	16 5	6	Green round post; 3.	
1336 <i>D 1244.4</i>	---SE. angle, on caisson.	46° 09.6' N 1° 14.3' W	Oc.R. period 4s lt. 3s, ec. 1s	23 7	6	White pylon, red top; 13.	
1340 <i>D 1244.7</i>	-Oil pier, extremity.	46° 09.4' N 1° 14.4' W	Q.(6)+L.Fl.W. period 15s	20 6	9	S. CARDINAL YB, tower; 10.	
1344 <i>D 1245</i>	-N. jetty, head.	46° 09.5' N 1° 13.8' W	Oc.(2)R. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	33 10	7	Gray tower, red top; 30.	R. 234°-144°, R. (unintensified) -184, obsc.-234°.
1344.5 <i>D 1246</i>	--S. jetty, head.	46° 09.5' N 1° 13.5' W	Oc.(3)G. period 12s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 4.5s	19 6	7	White beacon, green top; 13.	
1345 <i>D 1247</i>	-Basin Range, front.	46° 09.5' N 1° 12.6' W	Q.R.	69 21	7	White structure; 62.	
1345.1 <i>D 1247.1</i>	--Rear, 154 meters 085° from front.	46° 09.5' N 1° 12.5' W	Q.R.	89 27	7	Red rectangular daymark, white stripe on white mast, red top; 95.	Synchronized with front.
1348 <i>D 1244.8</i>	-W. jetty, head.	46° 09.3' N 1° 13.9' W	Oc.(2)G. period 6s lt. 1s, ec. 1s lt. 3s, ec. 1s	42 13	9	White tower, green top; 36.	
LA PALLICE:							
1351 <i>D 1247.5</i>	-Chef de Baie Fishing Harbor.	46° 08.9' N 1° 13.3' W	Dir.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	33 10	W. 10 R. 7 G. 7	White round metal tower, red bands.	G. 096°-101°, W.-103°, R.-108°.
1351.5 <i>D 1248</i>	--W. jetty, head.	46° 08.9' N 1° 13.6' W	Fl.R. period 2.5s fl. 0.5s, ec. 2s	23 7	4	White tower, red top.	
1351.7 <i>D 1248.5</i>	--S. jetty, head.	46° 08.9' N 1° 13.6' W	Fl.G. period 2.5s fl. 0.5s, ec. 2s	23 7	4	White tower, green top.	
1352 <i>D 1243</i>	-Le Lavardin, on reef.	46° 08.1' N 1° 14.5' W	Fl.(2)W. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	46 14	7	ISOLATED DANGER BRB, tower; 69.	
1360 <i>D 1253</i>	- Pointe des Minimes.	46° 08.3' N 1° 10.8' W	Fl.(3)W.G. period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	26 8	W. 8 G. 5	Metal post on octagonal tower; 49.	W. 059°-213°, G. 313°-059°.
1364 <i>D 1251</i>	--Entrance Range, front.	46° 09.4' N 1° 09.1' W	Dir.Q.W.	49 15	14	White tower, red top, red and white bands; 46.	Visible 056°-062°. Fl.W. 4s shown by day.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
FRANCE-WEST COAST							
1368 <i>D 1251.1</i>	--Rear, 235 meters 059° from front.	46° 09.4' N 1° 09.0' W	Q.W.	82 25	14	White octagonal tower, green top; 75.	Visible 044°-074°. Obscured 061°-065° Synchronized with front. Fl.W. 4s shown by day.
1380 <i>D 1250</i>	--Tourelle Richelieu.	46° 08.9' N 1° 10.3' W	Fl.R. period 4s fl. 1s, ec. 3s	33 10	7	Red octagonal tower; 56.	
1381 <i>D 1254</i>	-Port of Minimes, W. jetty, head.	46° 08.8' N 1° 10.2' W	Fl.(2)G. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	29 9	5	White tower, green top; 23.	
1382 <i>D 1254.2</i>	--E. jetty, head.	46° 08.8' N 1° 10.1' W	Fl.(2)R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	19 6	5	White tower, red top; 16.	
1384 <i>D 1256</i>	-Ile d'Aix.	46° 00.6' N 1° 10.7' W	Fl.W.R. period 5s fl. 0.3s, ec. 4.7s	79 24	W. 24 R. 20	Two round white towers, red tops; one tower for the light, the other as a screen to make N. limit of red sector more pronounced; 56.	W. 118°-103°, R.-118°.
1385 <i>D 1256.3</i>	-Fort Boyard.	46° 00.0' N 1° 12.8' W	Q.(9)W. period 15s			W. CARDINAL YBY, tower, topmark.	Marks platform close W. Mussel racks marked by Fl.Y. lights 1.4 and 1.9 miles W.
1388 <i>D 1258</i>	-Fouras, jetty, head.	45° 59.8' N 1° 05.9' W	Oc.(3+1)W.G. period 12s lt. 3s, ec. 1s lt. 3s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s	30 9	W. 11 G. 8	Green and white pylon; 26.	W. 127°-084°, G. elsewhere. Passe aux Filles Range Lights between Les Pallas and Ile Madame show Oc.(2)R. 6s (synchronized). F.G. shown at extremity of Jete de la Fumee, about 1 mile WNW.
1390 <i>D 1259</i>	--Range, front.	45° 59.0' N 1° 05.7' W	Oc.(2)R. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	26 8	6	White two column platform, red top; 13.	Visible 315°-135°.
1391 <i>D 1259.1</i>	--Rear, 75 meters 042°30' from front.	45° 59.0' N 1° 05.7' W	Oc.(2)R. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	62 19	6	White two column platform, red top; 20.	Visible 315°-135°.
1392 <i>D 1259.4</i>	-Fourao (Port Sud), jetty, head.	45° 59.0' N 1° 05.7' W	Fl.W.R. period 4s fl. 1s, ec. 3s	20 6	W. 9 R. 6	White support, red top; 16.	W. 177°-115°, R.-177°.
1396 <i>D 1258.5</i>	-Jete de la Fumee, head.	46° 00.3' N 1° 07.1' W	Q.G.	16 5	5	Green post; 26.	
-Charente:							
1400 <i>D 1257</i>	--First Range, front.	45° 58.0' N 1° 04.3' W	Dir.Q.R.	26 8	19	White square tower, red top; 29.	Intensified 113°-117°.
1404 <i>D 1257.1</i>	--Rear, about 600 meters 115° from front.	45° 57.9' N 1° 03.8' W	Dir.Q.R.	69 21	20	White square tower, red top; 75.	Intensified 113°-117°.
			Q.R.	69 21	8		Visible 322°-067° from berth of Port des Barques.
1408 <i>D 1264</i>	--Port des Bargues, second Range, front.	45° 56.9' N 1° 04.2' W	Iso.G. period 4s	16 5	9	White square tower; 19.	Intensified 125°-145°.
1412 <i>D 1264.1</i>	--Rear, 490 meters 134°18' from front.	45° 56.7' N 1° 03.9' W	Iso.G. period 4s	43 13	11	White square tower, black band on W. side, upper part black; 52.	Intensified 125°-145°. Synchronized with front.
ILE D'OLERON:							
1416 <i>D 1272</i>	-Rocher d'Antioche, Ile D'Oleron, N. shore.	46° 04.0' N 1° 23.6' W	Q.W.	66 20	11	N. CARDINAL BY, tower, topmark; 89.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
FRANCE-WEST COAST							
1420 <i>D 1270</i>	-Chaussiron.	46° 02.9' N 1° 24.5' W	Fl.W. period 10s fl. 0.2s, ec. 9.8s	164 50	28	White round tower, black bands; 151.	
1422 <i>D 1274</i>	-Saint-Denis-d'Oleron.	46° 02.2' N 1° 22.0' W	Fl.(2)W.G. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	36 11	W. 9 G. 6	Square stone hut, post; 13.	G. 205°-277°, W.-292°, G.- 165°, obsc.-205°.
1422.5 <i>D 1274.6</i>	--S. pier, head.	46° 02.2' N 1° 22.1' W	Fl.(2)R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	30 9	6	Square stone hut; 3.	
1423 <i>D 1274.4</i>	-Directional light.	46° 01.7' N 1° 21.8' W	Dir.Iso.W.R.G. period 4s	46 14	W. 11 R. 8 G. 8	White concrete post, gallery; 33.	G. 190°-204°, W.-206°, R.- 220°.
1424 <i>D 1276</i>	-La Perotine, training wall, head.	45° 58.2' N 1° 13.8' W	Fl.(2)R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	26 8	5	White pylon, red top; 23.	
1428 <i>D 1277</i>	-Tourelle Juliar.	45° 54.1' N 1° 09.5' W	Q.(3)W.G. period 10s	39 12	W. 11 G. 8	E. CARDINAL BYB, tower, topmark; 69.	W. 147°-336°, G.-147°.
1432 <i>D 1278</i>	-Chateau Range, front.	45° 53.1' N 1° 11.4' W	Q.R.	36 11	7	White tower, red rectangular daymark; 6.	Visible 191°-087°.
1436 <i>D 1278.1</i>	--Rear, about 240 meters 319° from front.	45° 53.2' N 1° 11.6' W	Q.R.	79 24	7	White round tower, red top; 59.	
1440 <i>D 1287.5</i>	-St. Trojan.	45° 50.9' N 1° 12.4' W	Fl.G. period 4s	26 8	5	Gray mast; 26.	Viaduct d'Oleron marked by FW. light 2 kilometers ENE.
-La Cotiniere:							
1444 <i>D 1284</i>	--Approach.	45° 54.3' N 1° 18.7' W	Dir.Oc.W.R.G. period 4s lt. 3s, ec. 1s	43 13	W. 11 R. 9 G. 9	White tower, white rectangular daymark, black border; 20.	G. 033°-046°, W.-050°, R.- 063°, obsc.-033°.
1448 <i>D 1285</i>	--Entrance Range, front.	45° 54.8' N 1° 19.6' W	Dir.Oc.(2)W. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	20 6	13	White tower, red top; 16.	Visible 329°-349°. Synchronized with rear.
1452 <i>D 1285.1</i>	---Rear, 425 meters 339° from front.	45° 54.9' N 1° 19.8' W	Dir.Oc.(2)W. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	46 14	12	Pylon, red and white bands; 36.	Synchronized with front. Intensified 329°-349°.
1456 <i>D 1286</i>	--Jetty elbow.	45° 54.9' N 1° 19.7' W	Oc.R. period 4s lt. 3s, ec. 1s	36 11	8	White tower, red top; 36.	R. 133°-218°, obsc.-133°.
1460 <i>D 1286.4</i>	---Head.	45° 54.7' N 1° 19.6' W	Fl.R. period 4s fl. 1s, ec. 3s	33 10	6	White tower, red top; 33.	
1464 <i>D 1286.6</i>	--S. jetty, head.	45° 54.9' N 1° 19.7' W	Iso.G. period 4s	30 9	6	White tower, green top; 26.	
1468 <i>D 1287</i>	--Epi du Colombier, E. side of entrance.	45° 54.8' N 1° 19.7' W	F.Bu.	20 6	3	White tower, violet top; 16.	
GIRONDE:							
1472 <i>D 1288.4</i>	-Pointe de Mus de Loup, Seudre River, entrance, S. bank.	45° 47.8' N 1° 08.6' W	Oc.G. period 4s lt. 3s, ec. 1s	26 8	6	Green and white column, white to seaward; 26.	Visible 118°-147°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
FRANCE-WEST COAST							
1476 <i>D 1290</i>	-Pointe de la Coubre.	45° 41.8' N 1° 13.9' W	Fl.(2)W. period 10s fl. 0.1s, ec. 2.4s fl. 0.1s, ec. 7.4s	210 64	28	White tower, red top; 213.	
			F.R.G.	138 42	10	Same tower.	R. 030°-043°, G.-060°, R.-110°. Auxiliary light.
1480 <i>D 1300</i>	-Plateau de Cordouan.	45° 35.2' N 1° 10.4' W	Oc.(1+2)W.R.G. period 12s lt. 3.6s, ec. 1.2s lt. 3.6s, ec. 1.2s lt. 1.2s, ec. 1.2s	197 60	W. 22 R. 18 G. 18	White conical tower, gray band and gray at top; 223.	W. 014°-126°, G.-178°30', W.-250°, W. (unintensified)-267°, R. (unintensified)-294°30', R.-014°.
1488 <i>D 1293.9</i>	--La Palmyre Range, front.	45° 39.6' N 1° 08.7' W	Dir.Iso.W. period 4s	69 21	20	White round mast on dolphin; 88.	Intensified 080°30'-082°30'.
			Q.(2)W. period 5s fl. 0.2s, ec. 0.8s fl. 0.2s, ec. 3.8s	33 10	2		
1492 <i>D 1294</i>	---Common rear, about 2000 meters 081°30' from La Palmyre, 2100 meters 327° from Terre Negre.	45° 39.8' N 1° 07.2' W	Dir.Q.W.	187 57	27	White radar tower; 118.	Intensified 080°30'-082°30'. Radar station.
			Dir.F.R.	187 57	17		Intensified 325°30'-328°30'. Auxiliary light.
1496 <i>D 1294.1</i>	--Terre Negre Range, front.	45° 38.8' N 1° 06.3' W	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	128 39	W. 18 R. 14 G. 14	Tower, upper part red, lower part white; 89.	R. 304°-319°, W.-327°, G.-000°, W.-004°, G.-097°, W.-104°, R.-116°.
1500 <i>D 1310</i>	--Saint Nicolas Range, front.	45° 33.8' N 1° 04.9' W	Dir.Q.G.	72 22	16	White square tower; 42.	Intensified 061°30'-064°30'.
1504 <i>D 1310.1</i>	---Pointe de Grave, rear, about 1,550 meters 063° from front.	45° 34.2' N 1° 03.9' W	Oc.W.R.G. period 4s lt. 3s, ec. 1s	85 26	W. 19 R. 15 G. 15	Square white tower, corners and top black; 82.	W. 330°-341°, W. (unintensified)-025°, obsc.-033°, W. (unintensified)-054°, W.-233°30', R.-303°, W.-312°, G.-330°.
1505 <i>D 1313</i>	---N. jetty.	45° 34.5' N 1° 03.6' W	Q.W.	30 9	2	N. CARDINAL BY, beacon, topmark; 23.	Radar reflector.
1506 <i>D 1313.2</i>	---E. Elbow.	45° 34.3' N 1° 03.5' W	Iso.G. period 4s	26 8	3	STARBOARD (A) G, beacon, topmark; 23.	Visible 173°-020°. Radar reflector.
1508 <i>D 1312</i>	--Le Chay Range, front.	45° 37.3' N 1° 02.4' W	Dir.Q.R.	108 33	18	White tower, red top; 49.	Intensified 039°30'-042°30'.
1512 <i>D 1312.1</i>	---St. Pierre, rear, about 1.8 km. 041° from front.	45° 38.0' N 1° 01.5' W	Dir.Q.R.	200 61	18	Red water tower; 131.	Intensified 039°-043°.
1516 <i>D 1314</i>	-Port Bloc, N. mole, head.	45° 34.2' N 1° 03.7' W	Fl.G. period 4s fl. 1s, ec. 3s	30 9	3	White metal tower, green top.	Shown by day in fog.
1520 <i>D 1316</i>	--S. mole, head.	45° 34.1' N 1° 03.7' W	Fl.R. period 4s fl. 1s, ec. 3s	26 8	4	White tower, red top; 56.	Shown by day in restricted visibility.
	-Passe Sud:						
1524 <i>D 1326</i>	--Oil pier.	45° 31.9' N 1° 02.1' W	Dir.Iso.W.R.G. period 4s	13 4	W. 12 R. 8 G. 8	Dolphin, white rectangular daymark, black stripe; 36.	G. 165°-170°, W.-173°, R.-178°.
			Fl.G. period 2.5s	16 5	3		
1532 <i>D 1327</i>	-Pointe de la Chambrette, N. side.	45° 33.1' N 1° 02.5' W	Fl.(3)G. period 12s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 7s	43 13	2	Green structure; 10.	

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FRANCE-WEST COAST							
1533 <i>D 1327.2</i>	--S. side.	45° 32.7' N 1° 02.4' W	Fl.G. period 2.5s fl. 0.5s, ec. 2s	39 12	3	Metal structure; 3.	Visible 000°-200°.
-Royan:							
1536 <i>D 1304</i>	--S. Jetty.	45° 37.0' N 1° 01.8' W	Fl.(2)R. period 10s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 7.3s	36 11	12	White tower, red base; 33.	
1540 <i>D 1308</i>	--New Jetty, head.	45° 37.2' N 1° 01.6' W	Fl.(3)R. period 12s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 6.5s	26 8	6	White tower, red top; 23.	
1544 <i>D 1307</i>	--E. Jetty.	45° 37.3' N 1° 01.6' W	Fl.(3)G. period 12s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 6.5s	7 2	6	White post, green top; 13.	Visible 311°-151°.
1556 <i>D 1372</i>	Hourtin.	45° 08.5' N 1° 09.7' W	Fl.W. period 5s fl. 0.1s, ec. 4.9s	180 55	23	Red square brick tower; 89.	
1560 <i>D 1378</i>	Cap Ferret.	44° 38.9' N 1° 14.8' W	Fl.R. period 5s fl. 0.1s, ec. 4.9s	175 53	27	White tower, red top; 171.	Radiobeacon.
			Oc.(3)W. period 12s lt. 1.5s, ec. 1.5s	151 46	14	Same tower.	Visible 045°-135°. Auxiliary light.
1576 <i>D 1380</i>	-La Salie, wharf, head.	44° 30.9' N 1° 15.7' W	Q.(9)W. period 15s	59 18	4	W. CARDINAL YBY, topmark.	
1580 <i>D 1382</i>	Contis-les-Bains.	44° 05.7' N 1° 19.2' W	Fl.(4)W. period 25s fl. 0.1s, ec. 4.1s fl. 0.1s, ec. 4.1s fl. 0.1s, ec. 4.1s fl. 0.1s, ec. 12.3s	164 50	23	White round tower, black diagonal stripes; 138.	F.R. light on radio mast 16.5 miles NNE.
L'ADOUR:							
1584 <i>D 1384</i>	-Capbreton-Digue Nord, head.	43° 39.4' N 1° 26.9' W	Fl.(2)R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	42 13	8	White tower, red top; 20.	
1588 <i>D 1386</i>	-Capbreton-Estacade Sud.	43° 39.3' N 1° 26.9' W	Fl.(2)G. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	30 9	8	White metal tower, green top; 26.	
1592 <i>D 1386.5</i>	-BA Approach Buoy.	43° 32.6' N 1° 32.8' W	L.Fl.W. period 10s fl. 3s, ec. 7s	26 8	5	SAFE WATER RW, pillar, topmark.	Radar reflector.
1596 <i>D 1387</i>	-N. breakwater, head.	43° 32.0' N 1° 31.9' W	Q.R.	39 12	8	White tower, red top; 30.	
1600 <i>D 1387.2</i>	-Entrance Range, front.	43° 31.8' N 1° 31.2' W	Dir.Q.W.	23 7	19	White pylon, red top; 20.	Intensified 086°30'-093°30'.
1604 <i>D 1387.21</i>	--Rear, 250 meters 090° from front.	43° 31.8' N 1° 31.0' W	Dir.Q.W.	52 16	19	White pylon, red top; 39.	Intensified 086°30'-093°30'.
1608 <i>D 1387.3</i>	-Jetee Nord, head.	43° 31.8' N 1° 31.4' W	Iso.R. period 4s	39 12	8	White pylon, red top; 33.	Visible 296°-116°.
1612 <i>D 1387.4</i>	-Jetee Sud, head.	43° 31.7' N 1° 31.5' W	Iso.G. period 4s	30 9	9	White square tower, green top; 26.	
1616 <i>D 1387.5</i>	-S. breakwater, head.	43° 31.5' N 1° 31.7' W	Q.(9)W. period 15s	49 15	7	W. CARDINAL YBY, pylon, topmark; 46.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
FRANCE-WEST COAST							
1620 <i>D 1388</i>	-Inner Range, front.	43° 31.6' N 1° 30.9' W	Dir.Q.G.	23 7	13	White hut, green bands; 13.	Intensified 109°-114°.
1624 <i>D 1388.1</i>	--Rear, 149 meters 111°30' from front.	43° 31.6' N 1° 30.8' W	Dir.Q.G.	33 10	13	White square tower, green bands on NE. and NW. faces; 30.	Intensified 109°-114°.
1624.5 <i>D 1390</i>	-Training wall, N. side.	43° 31.8' N 1° 31.2' W	Fl.(2)R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	33 10	8	White tower, red top; 16.	Visible 296°-091°. Fl.(3)R. 12s 9m 3M and Fl.(4)R. 15s 9m 3M mark N. bank.
1625 <i>D 1390.5</i>	-S. side.	43° 31.6' N 1° 30.9' W	Q.G.	23 7	8	White column, green top; 13.	Visible 205°-295°. Fl.(3)G. 12s 9m 3M and Fl.(4)G. 15s 9m 3M mark S. bank.
1628 <i>D 1394</i>	-Des Forges Range, front.	43° 31.6' N 1° 29.9' W	Q.R.	49 15	8	White tower, red top.	Visible 188°-098°.
1632 <i>D 1394.1</i>	--Rear, about 150 meters 322°24' from front.	43° 31.7' N 1° 30.0' W	Dir.Q.R.	72 22	10	Pylon.	Intensified 312°24'-332°24'.
1633 <i>D 1391</i>	-Marina entrance, W. side.	43° 31.6' N 1° 30.5' W	Fl.G. period 2.5s fl. 0.4s, ec. 2.1s	20 6	2	White pylon, green top; 13.	
1634 <i>D 1392</i>	-Digue basse, E. end.	43° 31.5' N 1° 30.1' W	Fl.(2)G. period 6s fl. 0.2s, ec. 1.4s fl. 0.2s, ec. 4.2s	13 4	4	White pylon, green top; 20.	
1635 <i>D 1394.2</i>	-Sait Gobain Range, front.	43° 31.1' N 1° 29.3' W	Q.R.	23 7	2	White pylon, white panel, red stripe; 20.	
1635.5 <i>D 1394.3</i>	--Rear, 80 meters 141° from front.	43° 31.1' N 1° 29.3' W	Q.R.	33 10	2	White pylon, red panel, white stripe; 20.	
1636 <i>D 1395</i>	-Pointe de Blancpignon.	43° 30.9' N 1° 29.6' W	Fl.(2)G. period 6s fl. 0.2s, ec. 1.4s fl. 0.2s, ec. 4.2s	26 8	6	White column, green top; 23.	
1648 <i>D 1396</i>	-Forme de Radoub.	43° 30.5' N 1° 29.8' W	V.Q.G.	43 13	3	White pylon, green base and top; 39.	
1656 <i>D 1400</i>	-L'Aveugle Bridge.	43° 30.1' N 1° 29.5' W	Dir.Q.W.R.G.	26 8	W. 10 R. 7 G. 7	Metal column.	G. 165°-170°, W.-175°, R.-195°.
1660 <i>D 1410</i>	Pointe St. Martin.	43° 29.6' N 1° 33.2' W	Fl.(2)W. period 10s fl. 0.1s, ec. 2.4s fl. 0.1s, ec. 7.4s	240 73	27	Round white tower, black top; 154.	
1664 <i>D 1413</i>	Guethary Range, front.	43° 25.6' N 1° 36.5' W	Q.R.	36 11	6	White post, red top, white rectangular daywork; 26.	
1668 <i>D 1413.1</i>	--Rear, about 66 meters 123° from front.	43° 25.6' N 1° 36.5' W	Q.R.	108 33	6	White tower; 23.	
1672 <i>D 1412.4</i>	-Port des Pecheurs entrance Range, front.	43° 29.0' N 1° 34.0' W	Fl.R. period 2.5s fl. 0.4s, ec. 2.1s	23 7	3	White metal mast; 13.	
1676 <i>D 1412.41</i>	--Rear, 83 meters 174° from front.	43° 29.0' N 1° 34.0' W	Fl.R. period 2.5s fl. 0.4s, ec. 2.1s	62 19	3	White metal mast; 13.	
BAIE DE ST.-JEAN-DE-LUZ:							
1680 <i>D 1414</i>	-Pointe St. Barbe Range, front.	43° 24.0' N 1° 39.9' W	Oc.(4)R. period 12s lt. 5s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s	98 30	18	White structure, white triangular daymark; 23.	Intensified 095°-107°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
FRANCE-WEST COAST							
1684 <i>D 1416</i>	--Rear, 340 meters 101° from front.	43° 23.9' N 1° 39.6' W	Oc.(4)R. period 12s lt. 5s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s	154 47	18	White square tower, black triangular daymark; 49.	Intensified 095°-107°. Synchronized with front.
1688 <i>D 1418</i>	-E. jetty, Range, front.	43° 23.3' N 1° 40.1' W	Dir.Q.G.	59 18	17	White pyramidal tower, red stripe; 46.	Intensified 149°30'-152°00'.
1692 <i>D 1420</i>	--Rear, 410 meters 150°36' from front.	43° 23.1' N 1° 40.0' W	Dir.Q.G.	89 27	17	White pyramidal tower, green stripe; 89.	Intensified 149°42'-152°12'.
1696 <i>D 1422</i>	-Digue des Criquas, head.	43° 23.8' N 1° 40.7' W	Iso.G. period 4s	36 11	6	Square green tower; 20.	
1700 <i>D 1424</i>	Le Socoa Range, front.	43° 23.7' N 1° 41.2' W	Q.W.R.	118 36	W. 12 R. 8	White square tower, black stripe; 39.	R. 264°-282°, W. elsewhere. Siren: (300 meters E.)
1704 <i>D 1424.1</i>	-Bordagain , rear, 1,430 meters 138°24' from front.	43° 23.1' N 1° 40.5' W	Dir.Q.W.	220 67	20	White tower with black bands, black rectangular daymark, white band; 39.	Intensified 134°30'-141°30'.
1708 <i>D 1425</i>	Hendaye, jetty, head.	43° 22.7' N 1° 47.2' W	L.F.I.R. period 10s fl. 3s, ec. 7s	26 8	5	White column, red top; 13.	

Section 2

North and West Coasts of Spain

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-NORTH COAST							
1712 <i>D 1452</i>	Cabo Higuer.	43° 23.5' N 1° 47.5' W	Fl.(2)W. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	213 65	23	White square tower, red cupola; 69.	Visible 072°-340°.
1716 <i>D 1454.3</i>	Puerto de Fuenterrabia, N. breakwater.	43° 23.3' N 1° 47.2' W	Q.(3)W. period 5s fl. 0.2s, ec. 0.8s fl. 0.2s, ec. 0.8s fl. 0.2s, ec. 2.8s	49 15	3	E. CARDINAL BYB, tower, topmark; 16.	
1717 <i>D 1454</i>	-Elbow.	43° 23.3' N 1° 47.4' W	Fl.(3)G. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	30 9	1	Green mast; 23.	
1720 <i>D 1454.6</i>	-S. breakwater, head.	43° 23.3' N 1° 47.4' W	Fl.(3)R. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	29 9	1	Red post; 23.	
1724 <i>D 1453</i>	-Training wall.	43° 22.8' N 1° 47.3' W	Fl.(3)G. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	36 11	5	Green and white column, green platform; 16.	
PUERTO DE PASAJES:							
1728 <i>D 1456</i>	-Pasajes Ancho.	43° 20.1' N 1° 56.0' W	Oc.W. period 4s lt. 3s, ec. 1s	502 153	13	White building; 43.	Obscured 250°-285°. 6 F.R. mark radio tower 1.96 km. 254°.
1730 <i>D 1456.2</i>	-East Bancha.	43° 20.2' N 1° 55.7' W	Fl.R. period 5s fl. 0.5s, ec. 4.5s	52 16	7	Red metal tower; 52.	AIS.
1731 <i>D 1456.4</i>	-West Bancha.	43° 20.2' N 1° 55.9' W	Fl.G. period 5s fl. 0.5s, ec. 4.5s	52 16	7	Green metal tower; 52.	AIS.
1732 <i>D 1457</i>	-Arando Grande, on E. entrance point.	43° 20.1' N 1° 55.7' W	Fl.(2)R. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	39 12	7	White tower, red bands; 26.	
1734 <i>D 1457.5</i>	-Atalaya Semaforo, Pilot lookout station.	43° 20.1' N 1° 55.5' W	3 Fl.R. (vert.) period 2s 3 F.G. (vert.) 3 F.R. (vert.)	322 98	5	Red and white structure; 30.	
-RACON							
1736 <i>D 1458</i>	-Senocozulua.	43° 19.9' N 1° 55.6' W	Dir.Oc.(2)W.R.G. period 12s lt. 7.5s, ec. 1.5s lt. 1.5s, ec. 1.5s	171 52	6	Triangular tower and house; 23.	G. 129°30'-154°30', W.- 157°00', R.-190°00'.
1740 <i>D 1459</i>	--Range, front.	43° 19.9' N 1° 55.6' W	Q.W.	226 69	18	White tower; 16.	
1744 <i>D 1459.1</i>	--Rear, about 40 meters 154°49' from front.	43° 19.9' N 1° 55.6' W	Oc.W. period 3s lt. 2s, ec. 1s	289 88	18	White tower; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-NORTH COAST							
1748 <i>D 1460</i>	-Dique de Senocozulua, head.	43° 20.0' N 1° 55.6' W	Fl.(2)G. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	46 14	7	White tower, green bands; 23.	
1752 <i>D 1462</i>	-Punta de las Cruces, in water, E. of point.	43° 19.9' N 1° 55.5' W	Fl.(3)G. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	36 11	7	Green and white tower; 20.	
1756 <i>D 1468</i>	-Punta del Mirador.	43° 19.7' N 1° 55.3' W	Iso.R. period 4s	43 13	5	White hexagonal column on arch; 23.	
1760 <i>D 1470</i>	-Ermita de Santa Ana.	43° 19.6' N 1° 55.2' W	Q.R.	112 34	5	Red and white tower; 20.	Visible 090°-180°.
1764 <i>D 1466</i>	-Castilla de Santa Isabel, on point.	43° 19.8' N 1° 55.4' W	Fl.(4)R. period 12s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 5.2s	43 13	7	Red tower, white band; 26.	
1768 <i>D 1472</i>	-Punta Teodoro Arroca.	43° 19.9' N 1° 55.4' W	Fl.(3)R. period 9s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 4.2s	70 21	7	Red and white metal tower; 30.	
1772 <i>D 1474</i>	-Punta Calparra, W. side.	43° 19.7' N 1° 55.4' W	Fl.(4)G. period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	36 11	5	Green metal tower on white hut; 23.	
1776 <i>D 1475</i>	-Punta de la Torre de San Pedro, pier, head.	43° 19.6' N 1° 55.3' W	Fl.G. period 5s fl. 1s, ec. 4s	33 10	5	White column; 23.	
1777 <i>D 1475.5</i>	-Muelle Avanzado, corner.	43° 19.4' N 1° 55.4' W	Fl.(2+1)G. period 14.5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s fl. 0.5s, ec. 9s	26 8	3	Green tower, red band; 20.	
1778 <i>D 1476.8</i>	-Astilleros de Pasaia, W. corner.	43° 19.2' N 1° 54.7' W	Fl.(2)R. period 6s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 3.5s	33 10	1	Red and white tower; 20.	
1778.5 <i>D 1476.85</i>	--E. corner.	43° 19.2' N 1° 54.6' W	Fl.(3)R. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	33 10	1	Red and white tower; 20.	
SAN SEBASTIAN:							
1788 <i>D 1483</i>	-Igueldo.	43° 19.3' N 2° 00.6' W	Fl.(2+1)W. period 15s fl. 0.4s, ec. 1.8s fl. 0.4s, ec. 6s fl. 0.4s, ec. 6s	440 134	26	White round tower on N. side of dwelling; 42.	
1792 <i>D 1482</i>	-Isla de Santa Clara, inside entrance to port, W. side.	43° 19.3' N 1° 59.9' W	Fl.W. period 5s fl. 1s, ec. 4s	174 53	9	White round tower on N. side of dwelling; 33.	
1796 <i>D 1484</i>	-La Concha Range, front.	43° 18.9' N 1° 59.5' W	Q.R.	39 12	7	Gray metal post; 16.	
1800 <i>D 1484.1</i>	--Rear, about 25 meters 158° from front.	43° 18.9' N 1° 59.5' W	Oc.R. period 4s lt. 3s, ec. 1s	59 18	7	Gray metal post; 30.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-NORTH COAST							
1802 <i>D 1488.2</i>	-Puerto de Orio.	43° 17.5' N 2° 07.9' W	Fl.(4)R. period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	46 14	3	Truncated conical stone tower; 27.	
1804 <i>D 1489</i>	Guetaria.	43° 18.6' N 2° 12.1' W	Fl.(4)W. period 15s fl. 0.4s, ec. 2.1s fl. 0.4s, ec. 2.1s fl. 0.4s, ec. 2.1s fl. 0.4s, ec. 7.1s	305 93	21	White round tower and dwelling; 46.	
1808 <i>D 1493</i>	Zumaya, on Monte Atalaya.	43° 18.1' N 2° 15.1' W	Oc.(1+3)W. period 12s lt. 3s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s lt. 3s, ec. 1s	135 41	12	White octagonal tower, blue cupola; 39.	
1812 <i>D 1494</i>	-Breakwater, head.	43° 18.2' N 2° 15.0' W	Fl.(2)G. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	65 20	5	Truncated conical masonry tower; 23.	
1816 <i>D 1494.2</i>	-Head of jetty, about 0.2 km. ESE. of Zumaya.	43° 18.3' N 2° 14.9' W	Fl.(2)R. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	33 10	3	Truncated conical masonry tower; 10.	
PUERTO DE MOTRICO:							
1820 <i>D 1495</i>	-W. mole, head.	43° 18.5' N 2° 22.9' W	Fl.(2)G. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	39 12	1	Post; 20.	
ONDARROA:							
1832 <i>D 1498</i>	-N. breakwater.	43° 19.5' N 2° 24.9' W	Fl.(3)G. period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4.5s	49 15	12	Green tripod; 10.	Siren: Mo.(O)ev. 20s (bl.3s, si. 1s, bl.3s, si. 1s, bl.3s si. 9s).
	-RACON		G(- - •)				(10 cm)
1836 <i>D 1499</i>	-E. mole, head.	43° 19.5' N 2° 25.1' W	Fl.(2)R. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	30 9	6	White truncated conical tower; 16.	
LEQUEITIO:							
1840 <i>D 1502</i>	-Cabo de Santa Catalina.	43° 22.6' N 2° 30.6' W	Fl.(1+3)W. period 20s fl. 0.3s, ec. 6.4s fl. 0.3s, ec. 3s fl. 0.3s, ec. 3s fl. 0.3s, ec. 6.4s	151 46	17	Gray conical tower on octagonal base; 42.	Nautophone: Mo.(L) ev. 20s.
1844 <i>D 1504</i>	-Rompeolas de Amandarri.	43° 22.0' N 2° 30.0' W	Fl.G. period 4s fl. 1s, ec. 3s	33 10	5	Gray triangular tower; 16.	
1848 <i>D 1506</i>	-Muelle del Tinglado, S. extremity.	43° 21.9' N 2° 30.1' W	F.G.	23 7	2	Metal post; 13.	
1852 <i>D 1508</i>	-Muelle Sur, N. extremity.	43° 21.9' N 2° 30.0' W	F.R.	20 6	2	Red post; 13.	
1856 <i>D 1505</i>	-Dique Aislado, extremity.	43° 21.9' N 2° 30.0' W	Fl.(2)R. period 8s fl. 1s, ec. 1.5s fl. 1s, ec. 4.5s	23 7	4	Gray truncated conical tower; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-NORTH COAST							
1860 <i>D 1510</i>	Elanchove, W. breakwater, N. head.	43° 24.2' N 2° 38.3' W	F.W.R.	30 9	W. R.	8 5	Red metal tripod; 19. W. 000°-315°, R.-000°.
1864 <i>D 1510.4</i>	-Dique Norte, head.	43° 24.2' N 2° 38.3' W	Fl.G. period 3s fl. 1s, ec. 2s	33 10		4	Green metal tripod; 16.
PUERTO DE BERMEO:							
1868 <i>D 1512</i>	-Rosape, Punta Lamiaren, S. side of harbor.	43° 25.0' N 2° 42.8' W	Fl.(2)W.R. period 10s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	125 38		7	White building. R. 108°-204°, W.-232°.
1872 <i>D 1513</i>	-Dique Rompeolas, head.	43° 25.3' N 2° 42.7' W	Fl.G. period 4.5s fl. 1s, ec. 3.5s	59 18		4	Gray truncated masonry tower.
1876 <i>D 1513.2</i>	--Spur normal to Dique Rompeolas, head.	43° 25.2' N 2° 43.0' W	F.G.	23 7		2	Green metal tripod; 10.
1880 <i>D 1514</i>	-Espigon Norte, head.	43° 25.1' N 2° 43.1' W	F.G.	23 7		3	Green tower; 10. Partially obscured by Dique Rompeolas.
1888 <i>D 1513.4</i>	Breakwater, head.	43° 25.2' N 2° 42.8' W	Fl.R. period 3s fl. 0.5s, ec. 2.5s	26 8		3	Red metal tripod; 10.
1891 <i>D 8100</i>	Gaviota Platform.	43° 30.2' N 2° 41.4' W	4 Mo.(U)W. period 15s fl. 1s, ec. 0.1s fl. 1s, ec. 0.1s fl. 2s, ec. 10.8s	89 27		5	Platform. One on each corner. Nautophone (4): (one on each corner) Mo.(U) ev. 30s.
1892 <i>D 1520</i>	Cabo Machichaco.	43° 27.2' N 2° 45.2' W	Fl.W. period 7s fl. 0.3s, ec. 6.7s	400 122		24	Stone tower on NW. corner of gray building, aluminum lantern; 66. Siren: 2 bl. ev. 60s.
1896 <i>D 1521</i>	Arminza, N. end of training wall.	43° 26.0' N 2° 54.0' W	Fl.(2)R. period 8s fl. 1s, ec. 1.5s fl. 1s, ec. 4.5s	30 9		4	Gray masonry tower; 13.
1898 <i>D 1523</i>	Gorliz.	43° 25.9' N 2° 56.7' W	Fl.(1+2)W. period 16s fl. 1s, ec. 3s fl. 1s, ec. 1s fl. 1s, ec. 9s	541 165		22	White tower; 69.
BILBAO:							
1900 <i>D 1524</i>	-Punta Galea.	43° 22.4' N 3° 02.0' W	Fl.(3)W. period 8s fl. 0.2s, ec. 1.5s fl. 0.2s, ec. 1.5s fl. 0.2s, ec. 4.4s	276 84		19	Stone tower and dwelling, gray cupola; 26. Visible 011°-227°. Siren: (about 200 meters NNW.) Mo.(G) ev. 30s (bl. 2.5s, si. 2s, bl. 2.5s, si. 2s, bl. 1s, si. 20s).
1904 <i>D 1524.2</i>	--Breakwater, head.	43° 22.8' N 3° 04.6' W	Fl.R. period 5s fl. 0.5s, ec. 4.5s	69 21		7	Red metal post with upper platform; 46.
1908 <i>D 1526.4</i>	-Punta Lucero, breakwater, head.	43° 22.7' N 3° 05.0' W	Fl.G. period 5s fl. 0.5s, ec. 4.5s	75 23		10	Green tripod; 13. Radar reflector.
	-RACON		X(- • • -) period 72s			20	
1910 <i>D 1526.6</i>	--Pontoon.	43° 21.9' N 3° 05.4' W	Fl.(4)Y. period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	30 9		1	Yellow post, platform; 16.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-NORTH COAST							
1910.2 <i>D 1526.64</i>	-Punta Sollana, breakwater, head.	43° 21.8' N 3° 04.9' W	Fl.(2+1)Y. period 14.5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s fl. 0.5s, ec. 9s	13 4	1	Yellow round column.	
1910.5 <i>D 1526.65</i>	-Ciervana, breakwater, elbow.	43° 21.7' N 3° 04.3' W	Fl.(2+1)G. period 10s fl. 0.5s, ec. 0.8s fl. 0.5s, ec. 2s fl. 0.5s, ec. 5.7s	72 22	5	Green round tower, red stripe; 16.	Visible 014°-275°.
1910.6 <i>D 1524.4</i>	--Head.	43° 21.5' N 3° 02.8' W	Fl.(2)G. period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6s	72 22	5	Green round tower; 16.	
1910.7 <i>D 1524.45</i>	--Wharf AZ-1, head.	43° 21.4' N 3° 03.0' W	Fl.G. period 5s fl. 0.5s, ec. 4.5s	39 12	1	Green round column; 13.	
1911 <i>D 1524.6</i>	-Santurce, breakwater, head.	43° 21.1' N 3° 02.7' W	Fl.(2+1)G. period 10s fl. 0.5s, ec. 0.8s fl. 0.5s, ec. 2s fl. 0.5s, ec. 5.7s	49 15	3	Green round tower, red stripe; 16.	
1912 <i>D 1525</i>	-E. breakwater, head.	43° 20.5' N 3° 01.7' W	Fl.R. period 5s fl. 0.5s, ec. 4.5s	59 18	3	White masonry tower; 49.	
1912.5 <i>D 1525.05</i>	--S. corner, head.	43° 20.5' N 3° 01.7' W	Fl.(2)R. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	36 11	1	Red round tower; 13.	
1913 <i>D 1525.1</i>	-E. breakwater, middle.	43° 20.5' N 3° 01.2' W	Oc.W.R. period 4s lt. 3s, ec. 1s	36 11	3	Gray column; 20.	W. 134°-149°, R-174°.
1913.2 <i>D 1525.15</i>	-Muelle de Cruceros, head.	43° 20.3' N 3° 01.6' W	Fl.(2+1)R. period 10s fl. 0.5s, ec. 0.7s fl. 0.5s, ec. 2.1s fl. 0.5s, ec. 5.7s	30 9	1	Red and green round post; 7.	
1914 <i>D 1526.2</i>	-Marina GETXO, breakwater, head.	43° 20.2' N 3° 01.0' W	Q.R.	16 5	1	Red column; 13.	Oc.G. 4s and Oc.R. 4s mark marina 0.4 mile SSW.
1920 <i>D 1527</i>	-Breakwater, head.	43° 20.8' N 3° 01.9' W	Fl.(3)G. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	66 20	3	Gray round tower; 45.	
1924 <i>D 1527.2</i>	-Espigon No. 1, N. corner, head.	43° 20.6' N 3° 01.9' W	Fl.(4)G. period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	52 16	1	Gray metal tripod; 30.	
1928 <i>D 1527.22</i>	--S. corner, head.	43° 20.6' N 3° 01.9' W	Fl.G. period 5s fl. 0.5s, ec. 4.5s	52 16	1	Green post; 30.	
1932 <i>D 1527.4</i>	-Espigon No. 2, N. angle.	43° 20.5' N 3° 01.9' W	Fl.(2+1)G. period 10s fl. 0.5s, ec. 0.7s fl. 0.5s, ec. 2.1s fl. 0.5s, ec. 5.7s	43 13	1	Green column, red band; 20.	
1936 <i>D 1527.42</i>	--S. extremity.	43° 20.3' N 3° 01.9' W	Fl.(2)G. period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6s	52 16	1	Green framework tripod; 30.	
1938 <i>D 1528</i>	-Espigon No. 3, N. corner, head.	43° 20.1' N 3° 01.7' W	Fl.(2+1)G. period 10s fl. 0.5s, ec. 0.7s fl. 0.5s, ec. 2.1s fl. 0.5s, ec. 5.7s	39 12	1	Framework tripod on white hut; 30.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-NORTH COAST							
1938.1 <i>D 1528.2</i>	--S. corner, head.	43° 20.0' N 3° 01.7' W	Fl.G. period 5s fl. 0.5s, ec. 4.5s	39 12	1	Framework tripod on green hut; 30.	
1939 <i>D 1530</i>	-Santurce Harbor.	43° 19.8' N 3° 01.8' W	Fl.(3)G. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	23 7	1	Green post; 13.	
1940 <i>D 1529</i>	-Portugalete, Churruca Mole No. 3, head.	43° 20.0' N 3° 01.5' W	Fl.(2+1)G. period 10s fl. 0.5s, ec. 0.7s fl. 0.5s, ec. 2.1s fl. 0.5s, ec. 5.7s	46 14	1	Green concrete tower, red band; 26.	
1944 <i>D 1531</i>	-La Mojjonera, jetty No. 4, head.	43° 19.8' N 3° 01.1' W	Fl.(2)R. period 6s fl. 0.7s, ec. 0.7s fl. 0.7s, ec. 3.9s	33 10	1	Red metal tripod; 13.	
1948 <i>D 1532</i>	-Muelle de la Benedicta.	43° 19.2' N 3° 00.5' W	Fl.(2+1)G. period 10s fl. 0.5s, ec. 0.7s fl. 0.5s, ec. 2.1s fl. 0.5s, ec. 5.7s	39 12	1	Green metal tripod, red band; 26.	
1949 <i>D 1532.2</i>	-Darsena de Udondo, jetty, head.	43° 18.9' N 2° 59.5' W	Q.R.	23 7	1	Red post; 16.	
1951 <i>D 1532.25</i>	--Breakwater, head.	43° 18.8' N 2° 59.5' W	Fl.(2+1)R. period 10s fl. 0.5s, ec. 0.7s fl. 0.5s, ec. 2.1s fl. 0.5s, ec. 5.7s	30 9	1	Red post, green band; 16.	
1952 <i>D 1532.6</i>	-Darsena de Axpe, submerged mole.	43° 18.7' N 2° 58.8' W	Fl.(2+1)R. period 10s fl. 0.5s, ec. 0.7s fl. 0.5s, ec. 2.1s fl. 0.5s, ec. 5.7s	43 13	1	Red metal tripod, green band; 26.	
1956 <i>D 1532.4</i>	--Morro del Fraile.	43° 18.8' N 2° 59.3' W	Fl.(3)R. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	33 10	1	Red metal tripod; 26.	
CASTRO-URDIALES:							
1964 <i>D 1536</i>	-Castillo de Santa Ana.	43° 23.0' N 3° 12.9' W	Fl.(4)W. period 24s fl. 0.6s, ec. 3.4s fl. 0.6s, ec. 3.4s fl. 0.6s, ec. 3.4s fl. 0.6s, ec. 11.4s	161 49	20	White conical tower; 52.	Siren: Mo.(C) ev. 60s (bl. 5s, si. 1.5s, bl. 2s, si. 1.5s, bl. 5s, si. 1.5s, bl. 2s, si. 41.5s).
1972 <i>D 1537</i>	-N. breakwater, head.	43° 22.9' N 3° 12.6' W	Fl.G. period 3s fl. 0.3s, ec. 2.7s	46 14	6	Octagonal tower; 23.	
1976 <i>D 1537.2</i>	-S. breakwater.	43° 22.7' N 3° 12.7' W	Q.(2)R. period 6s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 4.5s	33 10	5	Gray pillar.	F.G. light marks N. mole, F.R. light marks S. mole.
PUERTO DE LAREDO:							
1980 <i>D 1540</i>	-N. breakwater, head.	43° 24.9' N 3° 25.2' W	Fl.(4)R. period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	36 11	5	Concrete tower; 10.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-NORTH COAST							
RIA DE SANTONA:							
1984 <i>D 1542</i>	Punta del Pescador, Mount Santona.	43° 27.9' N 3° 26.1' W	Fl.(3+1)W. period 18s fl. 1.5s, ec. 1.5s fl. 1.5s, ec. 1.5s fl. 1.5s, ec. 4.5s fl. 1.5s, ec. 4.5s	128 39	17	Conical masonry tower; 43.	
1992 <i>D 1546</i>	-SW. corner of passenger mole Range, front.	43° 26.4' N 3° 27.6' W	Fl.W. period 2s fl. 0.5s, ec. 1.5s	23 7	8	Pyramidal iron tower, triangular daymark, point down.	Visible 279°30'-287°30'.
1996 <i>D 1546.1</i>	--Rear, on bridge, 1,399 meters 283°30' from front.	43° 25.5' N 3° 28.6' W	Oc.(2)W. period 5s lt. 2.3s, ec. 1s lt. 0.7s, ec. 1s	46 14	11	Pyramidal iron tower, round daymark.	Visible 279°30'-287°30'.
2000 <i>D 1547</i>	-Darsena del Puerto.	43° 26.5' N 3° 27.8' W	F.R., F.G.	26 8	4	White truncated conical tower, red bands; 16.	F.G. light marks S. entrance. F.R. light marks N. entrance.
2004 <i>D 1548</i>	-Nueva Darsena del Puerto, Espigon Norte, head.	43° 26.6' N 3° 27.8' W	Fl.(2)R. period 6s fl. 0.4s, ec. 1.2s fl. 0.4s, ec. 4s	26 8	4	White truncated conical tower, red bands; 16.	
2008 <i>D 1548.2</i>	--Espigon Sur, head.	43° 26.4' N 3° 27.8' W	Fl.G. period 5s fl. 0.5s, ec. 4.5s	26 8	3	White truncated conical tower, green band.	
2012 <i>D 1549</i>	-Canal de Colindres, Malecon N.	43° 24.6' N 3° 27.5' W	Fl.R. period 2.5s fl. 0.5s, ec. 2s	30 9	3	Red truncated conical tower.	
2016 <i>D 1552</i>	Cabo de Ajo.	43° 30.8' N 3° 35.3' W	Oc.(3)W. period 16s lt. 6s, ec. 2s lt. 2s, ec. 2s lt. 2s, ec. 2s	233 71	17	White round tower; 26.	
SANTANDER:							
2020 <i>D 1554</i>	-Isla Mouro.	43° 28.4' N 3° 45.3' W	Fl.(3)W. period 16s fl. 1s, ec. 2.5s fl. 1s, ec. 2.5s fl. 1s, ec. 8s	128 39	11	Conical on dwelling; 60.	
2024 <i>D 1556</i>	-La Cerda, on W. entrance point.	43° 28.0' N 3° 45.8' W	Fl.(1+4)W. period 20s fl. 0.5s, ec. 3s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 10s	79 24	7	White square tower; 30.	Obscured W. of 160°.
2026 <i>D 1556.5</i>	-Puntal Range, front.	43° 27.6' N 3° 46.4' W	Q.W.	30 9	6	Post on metal tower.	Intensified 231°48'-239°48'.
	-RACON		K(- • -)		10		
2026.1 <i>D 1556.51</i>	--Rear, 100 meters 235°48' from front.	43° 27.6' N 3° 46.4' W	Iso.R. period 4s	39 12	6	Post on metal tower.	Intensified 231°48'-239°48'.
2028 <i>D 1557</i>	-Pena Horadada, channel, N. side.	43° 27.9' N 3° 46.1' W	Fl.(2)W. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	23 7	5	Black round tower, red band; 16.	
2032 <i>D 1558.2</i>	-Darsena de Molnedo, E. mole, head.	43° 27.7' N 3° 47.5' W	Q.G.	39 12	5	Green and white column; 20.	Visible over channel and about 2 km. E. and W. of basin entrance.
2036 <i>D 1558</i>	--W. mole, head.	43° 27.7' N 3° 47.5' W	Q.R.	39 12	5	Red and white column; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-NORTH COAST							
2041 <i>D 1557.3</i>	-Muelle de Maliano, 259°30'.	43° 27.3' N 3° 48.6' W	Dir.W.R.G.	66 20	6	Metal post; 49.	Fl.G. 257°48'-258°18', F.G.- 258°48', Oc.G.-259°24', FW.-259°36', Oc.R.- 260°12', F.R.-260°42', Fl.R.-261°12'. Range 4M by day.
2048 <i>D 1559.4</i>	-Muelle de Maliano, SE. corner.	43° 27.0' N 3° 48.9' W	Q.G.	39 12	5	Green and white column; 20.	
2050 <i>D 1559.42</i>	-W. corner.	43° 27.0' N 3° 49.3' W	Oc.G. period 4s lt. 3s, ec. 1s	26 8	5	Green and white column; 7.	
2052 <i>D 1559.45</i>	-Darsena Maliano, S. breakwater, head.	43° 26.9' N 3° 48.9' W	Fl.(2+1)G. period 10s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 4s fl. 0.5s, ec. 4s	39 12	5	Green column, red band; 20.	
2053 <i>D 1559.83</i>	-Darsena Norte de Raos, Muelle Raos 3, head.	43° 26.7' N 3° 48.9' W	Q.G.	39 12	5	Green and white column; 20.	
2055 <i>D 1559.84</i>	-Cement Factory, dolphin.	43° 26.5' N 3° 48.9' W	Fl.Y. period 2.5s fl. 0.5s, ec. 2s	30 9	1	SPECIAL Y, dolphin, topmark; 10.	E. and W. dolphins marked by Fl.Y. 2.5s.
2057 <i>D 1559.87</i>	-Terquisa Junction, dolphin.	43° 26.5' N 3° 48.8' W	Fl.(2+1)G. period 10s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 4s fl. 0.5s, ec. 4s	39 12	5	Green round post, red band on dolphin; 20.	
2060 <i>D 1561</i>	-Cabo Mayor.	43° 29.4' N 3° 47.5' W	Fl.(2)W. period 10s fl. 0.4s, ec. 2.1s fl. 0.4s, ec. 7.1s	299 91	21	White tower; 30.	
2064 <i>D 1562</i>	Suances (San Martin de la Arena).	43° 26.5' N 4° 02.6' W	Fl.(2+1)W. period 24s fl. 0.6s, ec. 4.8s fl. 0.6s, ec. 2.4s fl. 0.6s, ec. 15s	115 35	22	White truncated tower; 30.	Obscured 091°-113°.
2068 <i>D 1563</i>	Ria de Suances Range, front.	43° 26.2' N 4° 02.1' W	Q.W. period 1s	33 10	5	White truncated tower; 20.	
2072 <i>D 1563.1</i>	-Rear, on Punta Marzan about 210 meters 146° from front.	43° 26.0' N 4° 02.0' W	Iso.W. period 4s	46 14	5	White truncated concrete tower, masonry base; 33.	
COMILLAS:							
2076 <i>D 1566</i>	-Outer Range, front.	43° 23.3' N 4° 17.2' W	Iso.W. period 2s	118 36	4	White conical pillar, black band; 13.	
2080 <i>D 1566.1</i>	--Rear, 30 meters 194° from front.	43° 23.3' N 4° 17.2' W	Oc.W. period 4s lt. 3s, ec. 1s	131 40	4	White conical pillar, black band; 13.	
2084 <i>D 1568</i>	-Inner Range, front.	43° 23.4' N 4° 17.4' W	Iso.W. period 2s	52 16	3	White tower, black band; 13.	
2088 <i>D 1568.1</i>	--Rear, 245° from front.	43° 23.4' N 4° 17.4' W	Fl.R. period 3s fl. 1s, ec. 2s	66 20		White tower, black band; 13.	Range lights obscured S. of 231°.
2092 <i>D 1570</i>	-Breakwater, head.	43° 23.5' N 4° 17.4' W	F.G.	16 5		Green and white concrete post; 20.	
RIA DE SAN VICENTE DE LA BARQUERA:							
2096 <i>D 1574</i>	-Punta de la Silla.	43° 23.6' N 4° 23.5' W	Oc.W. period 3.5s lt. 2.5s, ec. 1s	141 43	13	Masonry tower, dwelling; 30.	Visible 115°-250°.
2100 <i>D 1576</i>	-Malecon del Oeste, head.	43° 23.7' N 4° 23.1' W	Fl.W.G. period 2s fl. 0.5s, ec. 1.5s	26 8	W. 7 G. 6	Green conical masonry tower; 10.	G. 175°-235°, W.-045°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-NORTH COAST							
2104 D 1577	-Escollera del Este, head.	43° 23.6' N 4° 23.1' W	Fl.(2)R. period 8s fl. 0.5s, ec. 2s fl. 0.5s, ec. 5s	26 8	5	Red conical masonry tower; 20.	
2108 D 1578	-Punta de la Espina.	43° 23.4' N 4° 23.5' W	F.G.	26 8	2	Green conical masonry tower; 16.	
2112 D 1580	Punta San Emeterio.	43° 24.0' N 4° 32.1' W	Fl.W. period 5s fl. 0.3s, ec. 4.7s	223 68	20	Round masonry tower on white hut; 29.	
2116 D 1582	Llanes.	43° 25.2' N 4° 44.9' W	Oc.(4)W. period 30s lt. 10s, ec. 2s lt. 4s, ec. 2s lt. 4s, ec. 2s lt. 4s, ec. 2s	59 18	15	White octagonal tower, gray cupola and house; 26.	
RIBADESELLA:							
2120 D 1586	-Somos.	43° 28.4' N 5° 05.0' W	Fl.(1+2)W. period 12s fl. 0.4s, ec. 1.2s fl. 0.4s, ec. 4.8s fl. 0.4s, ec. 4.8s	377 115	25	Quadrangular tower on dwelling; 26.	
2124 D 1587	-Breakwater, head.	43° 28.0' N 5° 04.0' W	Fl.(2)R. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	39 12	5	Concrete tower; 26.	Visible 278°25'-212°53'.
2128 D 1589	Puerto de Lastres, Malecon.	43° 30.9' N 5° 15.9' W	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	5	Green round concrete tower; 16.	
2130 D 1591	Cabo Lastres.	43° 32.1' N 5° 17.9' W	Fl.(5)W. period 25s fl. 0.4s, ec. 3.2s fl. 0.4s, ec. 3.2s fl. 0.4s, ec. 3.2s fl. 0.4s, ec. 3.2s fl. 0.3s, ec. 10.3s	387 118	23	White round tower; 59.	
2132 D 1592	Punta de Tazones.	43° 32.9' N 5° 24.0' W	Fl.W. period 7.5s	417 127	20	Octagonal masonry tower on white hut; 36.	Fl.G. marks end of breakwater. Nautophone: (about 150 meters N.) Mo.(V) ev. 30s (bl. 1.5s, si. 1.5s, bl. 1.5s, si. 1.5s, bl. 1.5s, si. 1.5s, bl. 4.5s, si. 16.5s).
CONCHA DE GIJON:							
2136 D 1608	-Piedra da Sacramento.	43° 32.9' N 5° 40.2' W	Fl.(2)G. period 6s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 4.5s	36 11	5	Green octagonal concrete tower; 20.	
2140 D 1609	-Dique de Liquerica (Santa Catalina).	43° 32.8' N 5° 40.1' W	Fl.(2)R. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	30 9	3	Red post; 16.	
2148 D 1610	-Malecon de Fomento, head.	43° 32.7' N 5° 40.1' W	Fl.(3)G. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	26 8	1	Green round post; 13.	Q.W. 4m 1M shown 550 meters W.
2149 D 1598.45	Dique de la Osa, S. breakwater.	43° 33.0' N 5° 41.2' W	Fl.(4)G. 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	36 11	1	Green post; 7.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-NORTH COAST							
2150 <i>D 1598.42</i>	-NE. corner.	43° 33.4' N 5° 40.8' W	Q.(3)W. period 10s	43 13	3	E. CARDINAL BYB, post, topmark.	
2151 <i>D 1598.1</i>	-NW.	43° 33.6' N 5° 41.1' W	Fl.R. period 4s fl. 0.5s, ec. 3.5s	43 13	5	Red tower.	
-Zona de El Musel:							
2152 <i>D 1598</i>	--Contradique de Levante, head.	43° 33.6' N 5° 41.2' W	Fl.(2)R. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	52 16	3	Red hut; 16.	
2156 <i>D 1598.4</i>	--Nuevos Muelles de la Osa, NW. corner.	43° 33.4' N 5° 41.3' W	Fl.(2+1)R. period 10s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 6.5s	26 8	3	Red post, green band; 6.	
2160 <i>D 1598.3</i>	---S. corner.	43° 33.2' N 5° 41.6' W	Fl.(4)R. period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 8.5s	26 8	1	Red post; 13.	
2166 <i>D 1606.5</i>	--Pantalan, head.	43° 33.6' N 5° 41.8' W	Fl.Y. period 3s fl. 0.5s, ec. 2.5s	33 10	1	SPECIAL Y, post, topmark; 13.	
2168 <i>D 1602</i>	--Espigon II, head.	43° 33.7' N 5° 41.8' W	Fl.(2+1)R. period 12s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 7.5s	20 6	1	Red post, green band; 13.	
2172 <i>D 1603</i>	--Espigon, NW. corner.	43° 33.9' N 5° 41.9' W	Fl.(4)R. period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	20 6	1	Red post; 16.	
2173 <i>D 1603.2</i>	---SE. corner.	43° 33.8' N 5° 41.9' W	Fl.(2+1)G. period 10s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 6.5s	26 8	1	Green post, red band; 20.	Visible 345°-060°.
2184 <i>D 1598.7</i>	--Muelle del Rendiello, N. head.	43° 33.5' N 5° 41.8' W	Fl.(2)R. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	26 8	1	Red post; 13.	
2186 <i>D 1598.8</i>	---S. head.	43° 33.3' N 5° 41.6' W	Fl.(4)G. period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 8.5s	26 8	1	Green post; 13.	
2187 <i>D 1598.5</i>	-Darsena de El Musel, elbow.	43° 33.3' N 5° 41.8' W	Fl.R. period 3s fl. 0.5s, ec. 2.5s	26 8	1	Red post; 13.	Fl.G. 3s 8m 1M marks corner 600 meters NE.
2192 <i>D 1599</i>	--Dique Norte, head.	43° 33.6' N 5° 41.5' W	Fl.(3)G. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	33 10	5	Green tower; 16.	
2196 <i>D 1597</i>	--Dique Exterior (Dique Oeste), head.	43° 34.2' N 5° 40.5' W	Fl.G. period 4s fl. 0.5s, ec. 3.5s	79 24	7	Green tower.	
2200 <i>D 1597.4</i>	--Contradique del Oeste, head.	43° 33.9' N 5° 40.9' W	Fl.(2)G. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	52 16	5	Green tower.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-NORTH COAST							
2204 <i>D 1596</i>	Cabo de Torres.	43° 34.3' N 5° 42.0' W	Fl.(2)W. period 10s fl. 0.4s, ec. 2.1s fl. 0.4s, ec. 7.1s	269 82	18	White octagonal tower on square dwelling; 40.	
CANDAS:							
2208 <i>D 1614</i>	-Cabo San Antonio.	43° 35.7' N 5° 45.7' W	Oc.(2)W. period 10s lt. 4s, ec. 2s lt. 2s, ec. 2s	131 40	15	Red tower, white cupola behind gray dwelling; 39.	
2212 <i>D 1616</i>	-Punta del Cuerno.	43° 35.7' N 5° 45.6' W	Dir.Fl.W.R.G. period 4s fl. 1s, ec. 3s	72 22	3	Red and white column; 13.	R. 284°-286°, W-288°, G.-290°.
2220 <i>D 1618</i>	-Nuevo Muelle, near extremity.	43° 35.3' N 5° 45.5' W	Fl.(3)G. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	43 13	3	Green truncated conical tower; 13.	
LUANCO:							
2224 <i>D 1624</i>	-Punta del Gallo Breakwater, head.	43° 37.2' N 5° 47.0' W	Fl.(2)G. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	39 12	5	Green round masonry tower; 13.	
2228 <i>D 1622</i>	-Entrance Range, front.	43° 36.9' N 5° 47.4' W	Fl.G. period 5s fl. 0.5s, ec. 4.5s	16 5	5	Green tower; 7.	
2232 <i>D 1622.1</i>	--Rear, 200 meters from front.	43° 36.8' N 5° 47.5' W	Oc.G. period 4s lt. 3s, ec. 1s	26 8	5	Green round tower; 13.	
2236 <i>D 1628</i>	Cabo Penas.	43° 39.3' N 5° 50.9' W	Fl.(3)W. period 15s fl. 0.4s, ec. 2.1s fl. 0.4s, ec. 2.1s fl. 0.4s, ec. 9.6s	385 117	35	Gray octagonal tower with building; 59.	Siren: Mo.(P) ev. 60s (bl. 1.5s, si. 1.5s, bl. 4.5s, si. 1.5s, bl. 4.5s, si. 1.5s, bl. 1.5s, si. 43.5s).
2238 <i>D 1630.4</i>	-Punta de la Forcada.	43° 35.8' N 5° 56.8' W	Fl.R. period 5s fl. 0.5s, ec. 4.5s	82 25	7	Red mast on white truncated conical tower; 13.	
RIA DE AVILES:							
2240 <i>D 1630</i>	-Aviles, 274 meters SE. of Punta Forcada.	43° 35.7' N 5° 56.7' W	Oc.W.R. period 5s lt. 3.5s, ec. 1.5s	131 40	W. 20 R. 17	White square tower; 46.	R. 091°30'-113°, W-091°30'. Siren: (190 meters NNW.) Mo.(A) ev. 30s. (bl. 1.5s, si. 1.5s, bl. 5s, si. 22s). Signal station.
2244 <i>D 1631</i>	-Entrance, N. side.	43° 35.7' N 5° 56.7' W	Fl.(2)R. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	33 10	5	Red truncated conical tower; 10.	R. lights mark N. bank, G. lights mark S. bank of Ria Aviles.
2246 <i>D 1631.28</i>	-Breakwater, head.	43° 35.6' N 5° 56.8' W	Fl.G. period 5s fl. 0.5s, ec. 4.5s	49 15	5	Green round tower; 26.	Visible 106°-280°.
SAN ESTEBAN:							
2248 <i>D 1634.2</i>	-W. breakwater.	43° 34.0' N 6° 04.7' W	Fl.(2)W. period 12s fl. 1s, ec. 2s fl. 1s, ec. 8s	66 20	15	White round tower; 33.	Siren: Mo.(N) ev. 30s (bl. 4s, si. 1s, bl. 1s, si. 24s).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-NORTH COAST							
2264 <i>D 1636</i>	-Training wall, W. side of entrance, head.	43° 34.0' N 6° 04.6' W	Fl.(4)G. period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	23 7	3	Truncated pyramidal tower; 13.	Six F.G. lights mark the training wall on W. side of channel. Two F.Or. in line 202°30' mark entrance. Synchronized with F.R. off San Juan de la Arena, front.
2268 <i>D 1638</i>	-Basin entrance on fortification.	43° 33.3' N 6° 04.8' W	Fl.(4)G. period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	23 7	1	Green rectangular tower; 10.	
2272 <i>D 1638.4</i>	--Dividing wall, head.	43° 33.3' N 6° 04.4' W	Fl.(3)R. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	23 7	1	Red rectangular tower; 10.	
2276 <i>D 1640</i>	Punta Rebollera.	43° 33.9' N 6° 08.7' W	Oc.(4)W. period 16s lt. 5s, ec. 2s lt. 1s, ec. 2s lt. 1s, ec. 2s lt. 1s, ec. 2s	144 44	16	White octagonal tower on house; 33.	Head of E. and W. breakwaters marked by F.R. and F.G. lights. Siren: Mo.(D) ev. 30s (bl. 4.5s, si. 1.5s, bl. 1.5s, si. 1.5s, bl. 1.5s, si. 19.5s).
2280 <i>D 1641</i>	Cabo Vidio.	43° 35.6' N 6° 14.7' W	Fl.W. period 5s fl. 0.3s, ec. 4.7s	331 101	25	Round masonry tower attached to house; 30.	Siren: Mo.(V) ev. 60s (bl. 1.5s, si. 1.5s, bl. 1.5s, si. 1.5s, bl. 1.5s, si. 1.5s, bl. 4.5s, si. 46.5s).
2284 <i>D 1642</i>	Cabo Busto.	43° 34.1' N 6° 28.2' W	Fl.(4)W. period 20s fl. 0.3s, ec. 2.9s fl. 0.3s, ec. 2.9s fl. 0.3s, ec. 2.9s fl. 0.3s, ec. 10.1s	282 86	25	White square tower on dwelling; 30.	Aeromarine.
LUARCA:							
2288 <i>D 1646</i>	-Punta La Blanca.	43° 33.0' N 6° 32.0' W	Oc.(3)W. period 15s lt. 7s, ec. 2s lt. 1s, ec. 2s lt. 1s, ec. 2s	213 65	14	White square tower; 30.	Siren: Mo.(L) ev. 30s (bl. 1.5s, si. 1.5s, bl. 4.5s, si. 1.5s, bl. 1.5s, si. 1.5s, bl. 1.5s, si. 16.5s).
2292 <i>D 1647</i>	-Dique de Canouco, head.	43° 33.0' N 6° 32.1' W	Fl.(2)R. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	69 21	5	Round concrete tower; 43.	
2296 <i>D 1649</i>	-Rio Negro, entrance Range, front.	43° 32.8' N 6° 32.1' W	Fl.W. period 5s fl. 0.5s, ec. 4.5s	69 21	3	White concrete column, red bands; 33.	
2300 <i>D 1649.1</i>	--Rear, 46 meters 170° from front.	43° 32.8' N 6° 32.0' W	Oc.W. period 4s lt. 3s, ec. 1s	89 27	2	White concrete column, red bands; 13.	
2304 <i>D 1650</i>	-Dique W.	43° 33.0' N 6° 32.3' W	Fl.(2)G. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	26 8	3	Green post; 13.	
PUERTO DE VEGA:							
2308 <i>D 1652</i>	-On Punta Lama, E. of entrance.	43° 34.0' N 6° 38.7' W	Fl.R. period 5s fl. 0.5s, ec. 4.5s	30 9	3	Red column; 10.	
2312 <i>D 1653</i>	-W. mole, head.	43° 34.0' N 6° 38.8' W	Fl.(2)G. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	23 7	1	Green column; 10.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-NORTH COAST							
2316 <i>D 1657</i>	Ria de Navia.	43° 33.8' N 6° 44.1' W	Oc.(2)W. period 12s lt. 6s, ec. 2s lt. 2s, ec. 2s	236 72	25	White round tower, black bands; 33.	
2320 <i>D 1657.5</i>	Puerto de Viavelez, N. jetty, head.	43° 34.0' N 6° 50.4' W	Fl.(3)R. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	33 10	5	Red truncated tower; 16.	
2324 <i>D 1657.6</i>	-S. jetty, head.	43° 33.9' N 6° 50.4' W	Fl.(3)G. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	33 10	3	Green truncated tower; 16.	
2328 <i>D 1658</i>	Isla Tapia.	43° 34.4' N 6° 56.8' W	Fl.(2+1)W. period 19s fl. 1s, ec. 2s fl. 1s, ec. 7s fl. 1s, ec. 7s	79 24	18	White tower on building; 33.	
2332 <i>D 1659</i>	Puerto de Tapia de Casariego, N. mole, head.	43° 34.4' N 6° 56.9' W	Fl.(2)R. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	30 9	5	Red tower; 16.	
2336 <i>D 1659.2</i>	-S. mole, head.	43° 34.4' N 6° 56.8' W	Fl.(2)G. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	33 10	3	Green tower; 20.	
RIA DE RIBADEO:							
2340 <i>D 1660</i>	-Isla Poncha.	43° 33.4' N 7° 02.5' W	Fl.(3+1)W. period 20s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s fl. 0.5s, ec. 7s	92 28	21	Round tower, white and black bands; 43.	Siren: Mo.(R) ev. 30s (bl. 1s, si. 2s, bl. 3s, si. 2s, bl. 1s, si. 21s).
2341 <i>D 1661</i>	-Punta de la Cruz.	43° 33.4' N 7° 01.8' W	Fl.(4)R. period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	59 18	7	Red round tower on prismatic base.	
2348 <i>D 1662</i>	-Punta Aerojo, 1st Entrance Range, front.	43° 32.8' N 7° 01.5' W	Iso.R.	66 20	5	White tower, red diamond daymark; 20.	
2352 <i>D 1662.1</i>	--Rear, 238 meters 140° from front.	43° 32.8' N 7° 01.3' W	Oc.R. period 4s	79 24	5	White tower, red diamond daymark; 20.	
2356 <i>D 1664</i>	-Muelle del Garcia, 2nd Range, front.	43° 32.5' N 7° 02.2' W	V.Q.R.	26 8	3	White tower, red diamond daymark; 23.	
2360 <i>D 1664.1</i>	--Rear, about 178 meters 205° from front.	43° 32.5' N 7° 02.2' W	Oc.R. period 2s lt. 1.2s, ec. 0.8s	65 20	3	Structure, white rectangular daymark; 6.	
2368 <i>D 1673</i>	Piedra Burela.	43° 39.8' N 7° 20.8' W	Q.(3)W. period 10s	39 12	7	E. CARDINAL BYB, tower, topmark; 26.	
PUERTO DE SAN CIPRIAN:							
2376 <i>D 1676</i>	-Punta Atalaya.	43° 42.1' N 7° 26.0' W	Fl.(5)W. period 20s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 9.7s	135 41	20	White round tower, black stripe; 46.	
2380 <i>D 1678.2</i>	-New port, outer Range, front.	43° 42.1' N 7° 27.8' W	Fl.(2)W. period 6s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 3.5s	82 25	3	Round tower, red and white bands; 39.	

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SPAIN-NORTH COAST							
2384 <i>D 1678.21</i>	--Rear, about 475 meters 203°55' from front.	43° 42.0' N 7° 27.8' W	Oc.W. period 6s lt. 4s, ec. 2s	115 35	3	Round tower, red and white bands; 72.	
2388 <i>D 1678.3</i>	--Inner Range, front.	43° 42.8' N 7° 28.8' W	Fl.(2)W. period 6s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 3.5s	131 40	3	Round tower, red and white bands; 75.	
2392 <i>D 1678.31</i>	--Rear, about 275 meters 273°14' from front.	43° 42.8' N 7° 28.9' W	Oc.W. period 6s lt. 4s, ec. 2s	144 44	3	Round tower, red and white bands; 39.	
2396 <i>D 1678.4</i>	--Breakwater, S. head.	43° 42.7' N 7° 27.6' W	Fl.(3)R. period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4.5s	85 26	4	Iron structure on gray column; 20.	
2400 <i>D 1678.6</i>	--N. head.	43° 43.0' N 7° 27.6' W	Fl.(2)W.G. period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6s	59 18	4	Pyramidal structure on gray octagonal base; 33.	W. 110°-180°, G.-110°.
2404 <i>D 1678</i>	-Fiqueras.	43° 41.8' N 7° 26.5' W	Dir.Q.R.W.	29 9	5	White tower, red diamond daymark; 26.	Obscured by Farallones. R. 178°-194°, W.-198°
2410 <i>D 1678.8</i>	Punta Roncadoira.	43° 44.1' N 7° 31.5' W	Fl.W. period 7.5s fl. 0.8s, ec. 6.7s	308 94	21	White round tower; 46.	
RIA DE VIVERO:							
2412 <i>D 1679</i>	-Punta Faro.	43° 42.7' N 7° 35.0' W	Fl.R. period 5s fl. 0.5s, ec. 4.5s	66 20	7	White tower; 20.	
2416 <i>D 1680</i>	-Punta Socastro.	43° 43.1' N 7° 36.4' W	Fl.G. period 5s fl. 0.5s, ec. 4.5s	66 20	7	Green tower; 20.	
-Rio Landrove:							
2420 <i>D 1681</i>	--Cillero.	43° 40.9' N 7° 36.0' W	Fl.(2)R. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	33 10	5	Red column; 20.	
RIA DEL BARQUERO:							
2432 <i>D 1684</i>	-Isla Coelleira, summit.	43° 45.5' N 7° 37.8' W	Fl.(4)W. period 24s fl. 1s, ec. 3s fl. 1s, ec. 3s fl. 1s, ec. 3s fl. 1s, ec. 11s	292 89	7	Gray round tower and dwelling; 23.	
2436 <i>D 1685.2</i>	-Punta de Barra.	43° 44.5' N 7° 41.3' W	Fl.W.R.G. period 3s fl. 0.3s, ec. 2.7s	56 17	5	White conical tower; 30.	G. 198°-213°, W.-240°, R.- 255°, G.-070°.
2440 <i>D 1685</i>	-Punta del Castro.	43° 44.5' N 7° 40.5' W	Fl.(2)W. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	52 16	5	White conical tower; 30.	Visible 000°- 180°.
2441 <i>D 1685.11</i>	-Breakwater, N. head.	43° 44.3' N 7° 40.7' W	Fl.(4)R. period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	36 11	5	Red timber pole, red and white round tower; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-NORTH COAST							
2442 <i>D 1685.12</i>	--S. head.	43° 44.2' N 7° 40.6' W	Fl.(4)G. period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	36 11	3	Green timber pole on green and white round tower; 20.	
2444 <i>D 1686</i>	Punta de la Estaca de Bares.	43° 47.2' N 7° 41.1' W	Fl.(2)W. period 7.5s fl. 0.2s, ec. 1.5s fl. 0.2s, ec. 5.6s	331 101	25	Octagonal tower, dwelling; 33.	Obscured when bearing greater than 291°. Siren: (150 meters 345°) Mo.(B) ev. 60s (bl. 6s, si. 3s, bl. 2s, si. 3s, bl. 2s, si. 3s, bl. 2s, si. 39s).
2446 <i>D 1686.1</i>	Esapasante, outer breakwater.	43° 43.2' N 7° 48.9' W	Fl.R. period 5s fl. 0.5s, ec. 4.5s	42 13	3	Red and white round concrete tower; 33.	
2447 <i>D 1686.2</i>	-Inner breakwater.	43° 43.2' N 7° 48.7' W	Fl.G. period 5s fl. 0.5s, ec. 4.5s	26 8	3	Green metal tower; 16.	
2448 <i>D 1686.5</i>	Puerto de Carino, breakwater, head.	43° 44.1' N 7° 51.9' W	Fl.G. period 2s fl. 0.5s, ec. 1.5s	46 14	3	Green and white round tower; 20.	
2450 <i>D 1686.3</i>	Cape Ortegal.	43° 46.3' N 7° 52.2' W	Oc.W. period 8s lt. 6s, ec. 2s	407 124	18	White and red round tower; 33.	
2452 <i>D 1687</i>	Punta Candelaria.	43° 42.7' N 8° 02.8' W	Fl.(3+1)W. period 24s fl. 0.6s, ec. 2.4s fl. 0.6s, ec. 2.4s fl. 0.6s, ec. 8.4s fl. 0.6s, ec. 8.4s	292 89	21	Octagonal tower on dwelling; 30.	
2454 <i>D 1687.6</i>	Punta Sarridal.	43° 39.6' N 8° 04.5' W	Oc.W.R. period 6s lt. 4s, ec. 2s	135 41	11	Red round tower; 7.	W. 145°-172°, R.-145°.
2456 <i>D 1688</i>	Cedeira, on Punta Promontorio.	43° 39.1' N 8° 04.2' W	Oc.(4)W. period 10s lt. 3s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s	85 26	11	White hexagonal tower; 23.	
2458 <i>D 1690</i>	Punta de Frouxeira.	43° 37.1' N 8° 11.3' W	Fl.(5)W. period 15s	246 75	20	Pyramidal concrete tower; 98.	
2460 <i>D 1692</i>	Cabo Prior.	43° 34.1' N 8° 18.9' W	Fl.(1+2)W. period 15s fl. 0.3s, ec. 5.7s fl. 0.3s, ec. 2.7s fl. 0.3s, ec. 5.7s	351 107	22	Hexagonal masonry tower, square dwelling; 23.	Visible 055°30'-310°.
RIA DE EL FERROL:							
2464 <i>D 1694</i>	-Cabo Priorino Chico.	43° 27.5' N 8° 20.5' W	Fl.W. period 5s fl. 1s, ec. 4s	118 36	23	White octagonal tower on square dwelling; 16.	Visible 225°-129°30'.
2468 <i>D 1695</i>	-Bateria de S. Cristobal.	43° 27.9' N 8° 18.3' W	Oc.(2)W.R. period 10s lt. 4.6s, ec. 1.8s lt. 1.8s, ec. 1.8s	69 21	7	White truncated conical tower; 20.	W. 042°-053°, R.-042°.
2476 <i>D 1696</i>	-San Martin Range, front.	43° 27.6' N 8° 17.1' W	Fl.W. period 1.5s fl. 0.5s, ec. 1s	39 12	5	Concrete tower, white tile facing; 26.	F.R. on antennas 0.5 and 1.1 miles S. Radar reflector.
2480 <i>D 1696.1</i>	--Rear, 701 meters 085°10' from front.	43° 27.6' N 8° 16.6' W	Oc.W. period 4s lt. 3s, ec. 1s		5	Concrete tower with white tile facing; 42.	Range only usable between white sector of Bateria de S. Cristobal and N./S. of Punta Louridal.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-NORTH COAST							
2484 <i>D 1697</i>	-Near Castillo de La Palma.	43° 27.8' N 8° 16.5' W	Oc.(1+2)W. period 7s lt. 1.8s, ec. 1s lt. 1.8s, ec. 1s lt. 0.4s, ec. 1s	36 11	7	Conical granite tower on dwelling; 23.	
2488 <i>D 1699</i>	-Duque de Alba, about 302 meters 070° from Punta Leira.	43° 28.0' N 8° 15.1' W	Fl.W. period 2s		1	White pyramid.	
2492 <i>D 1699.2</i>	-Pier, E. head.	43° 27.8' N 8° 13.9' W	Q.G.	42 13	1	Post; 23.	Synchronized with 2502.
2502 <i>D 1699.1</i>	--NW. head.	43° 27.8' N 8° 14.4' W	Q.G.		1	Green post; 10.	Synchronized with 2492.
2504 <i>D 1698.4</i>	-La Grana, S. pier, head.	43° 28.5' N 8° 15.4' W	Fl.(2)R. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	30 9	1	Red column; 13.	
2508 <i>D 1698</i>	-La Grana, petroleum pier, SW. head.	43° 28.2' N 8° 15.9' W	Q.R.	43 13	1	Metal post; 26.	Iso.R. 1s shown at NE. end.
2510 <i>D 1698.5</i>	-New pier, SW. corner.	43° 28.8' N 8° 15.2' W	Fl.(2+1)R. period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 4.5s	30 9	3	Red column, green band; 13.	Fl.(3)R. 9s on SE. corner. Synchronized with 2510.
2512 <i>D 1698.84</i>	-Darsena de Curuxeiras, Muelle de Concepcion Arenal, head.	43° 28.5' N 8° 14.7' W	Fl.(4)R. period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	23 7	3	Red column; 16.	Synchronized with 2510.
2513 <i>D 1698.7</i>	-Muelle Fernandez Ladreda.	43° 28.6' N 8° 15.0' W	Fl.G. period 5s fl. 0.5s, ec. 4.5s	30 9	3	Green metal column.	
2516 <i>D 1698.9</i>	-Arsenal, Asta del parque.	43° 28.4' N 8° 14.4' W	Fl.(2+1)R. period 12s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 1.5s	36 11	3	Red and green round structure; 7.	
2520 <i>D 1698.92</i>	--On the Punta del Martillo.	43° 28.5' N 8° 14.4' W	Fl.R. period 5s fl. 0.5s, ec. 4.5s	30 9	1	Red column; 16.	
2524 <i>D 1698.94</i>	-Darsena No. 1, pier, end.	43° 28.6' N 8° 14.3' W	Oc.G. period 2.5s lt. 2s, ec. 0.5s	30 9	1	Green column; 13.	
2528 <i>D 1698.96</i>	--No. 2, W. mole, head.	43° 28.3' N 8° 14.0' W	Fl.(2+1)G. period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 4.5s	30 9	3	Masonry column; 16.	
2532 <i>D 1698.98</i>	-Muelle commercial, head.	43° 28.4' N 8° 13.5' W	Fl.(2)G. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	36 11	1	Green truncated tower; 16.	
2533 <i>D 1699.5</i>	-Astilleros Astano, Muelle No. 7.	43° 28.7' N 8° 11.2' W	Fl.G. period 5s fl. 0.5s, ec. 4.5s	30 9	3	Gray metal lattice tower; 10.	
2533.5 <i>D 1699.6</i>	--Muelle No. 10.	43° 28.5' N 8° 11.6' W	Fl.(2+1)G. period 12s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 1.5s	30 9	3	Gray metal lattice tower; 10.	
2534 <i>D 1699.7</i>	--Muelle No. 11.	43° 28.3' N 8° 11.9' W	Fl.(4)G. period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	30 9	3	Gray metal lattice tower; 10.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-NORTH COAST							
2535 <i>D 1702.9</i>	Ria de Betanzos, Perbes, breakwater, head.	43° 22.7' N 8° 13.0' W	Fl.(2)W.R. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	23 7	3	Red mast.	W. 350°30'-355°30', R.-350°30'.
2537 <i>D 1703</i>	Ria de Ares, breakwater.	43° 25.4' N 8° 14.3' W	Fl.(4)R. period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	39 12	5	Red and white round tower, red square daymark; 20.	
2538 <i>D 1702.6</i>	Contradique, head.	43° 21.5' N 8° 14.7' W	Fl.(4)R. period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	36 11	3	Red round tower; 16.	
2540 <i>D 1700</i>	Puerto de Sada malecon, N. head.	43° 21.8' N 8° 14.6' W	Fl.(4)G. period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	49 15	5	Green round tower; 20.	
2544 <i>D 1702</i>	-Malecon, S. head.	43° 21.6' N 8° 15.0' W	Fl.R. period 5s fl. 0.5s, ec. 4.5s	26 8	1	Red post; 10.	
LA CORUNA:							
2548 <i>D 1704</i>	-Torre de Hercules.	43° 23.2' N 8° 24.4' W	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	348 106	23	Dark masonry tower, lower part square, upper part octagonal; 161.	Siren: (about 165 meters 338° from light) Mo.(L) ev. 30s (bl. 1.5s, si. 1.5s, bl. 4.5s, si. 1.5s, bl. 1.5s, si. 1.5s, bl. 1.5s, si. 16.5s).
2552 <i>D 1706</i>	-Punta Mera Range, front.	43° 23.0' N 8° 21.3' W	Oc.W.R. period 4s lt. 3s, ec. 1s	184 56	8	White octagonal tower; 36.	R. 100°30'-105°30', W.-114°30', R.-153° R. (unintensified) 000°-023°.
	-RACON		M(- -)		18		Azimuth coverage 200°-016°.
2556 <i>D 1708</i>	--Rear, 300 meters 108°30' from front.	43° 22.9' N 8° 21.0' W	Fl.W. period 4s fl. 1s, ec. 3s	266 81	8	White octagonal tower; 46.	Visible 357°30'-177°30'.
2560 <i>D 1710</i>	-Punta Fiaiteira Range, front.	43° 20.6' N 8° 22.3' W	Iso.W.R.G. period 2s	95 29	W. 10 R. 7 G. 7	Red and white checkered rectangular masonry tower; 33.	G. 146°24'-180°, W.-184°, R.-217°36'.
	-RACON		X(- • • -)		18		(3 & 10 cm)
2564 <i>D 1710.1</i>	--Rear, about 0.4 km. 182° from front.	43° 20.4' N 8° 22.3' W	Oc.R. period 4s lt. 3s, ec. 1s	177 54	5	Red and white checkered rectangular masonry tower; 33.	
2568 <i>D 1714</i>	-Dique de Abrigo, head.	43° 21.9' N 8° 22.5' W	Fl.G. period 3s fl. 0.5s, ec. 2.5s	59 18	7	Truncated conical concrete tower; 16.	Radar reflector.
2572 <i>D 1716</i>	-Castillo de San Anton.	43° 21.9' N 8° 23.3' W	Fl.(2)G. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	56 17	5	Green hexagonal tower; 20.	Visible 334°-096°42'.
2573 <i>D 1716.4</i>	-Muelle de San Diego, NE. corner.	43° 21.7' N 8° 23.2' W	Fl.(2)R. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	36 11	5	Red post.	
2574 <i>D 1716.6</i>	--SE. corner.	43° 21.6' N 8° 23.4' W	Oc.(2)G. period 5s lt. 2s, ec. 1s lt. 1s, ec. 1s	36 11	4	Green round tower.	
2575 <i>D 1716.2</i>	--NW. corner.	43° 21.8' N 8° 23.7' W	Fl.(3)R. period 9s	36 11	3	Red post; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-NORTH COAST							
2576 <i>D 1717</i>	-Muelle de Este, head.	43° 21.8' N 8° 23.8' W	Fl.(4)R. period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	39 12	1	Red round tower; 20.	
2580 <i>D 1722</i>	-Espigon de Trasatlanticos, N. corner.	43° 22.0' N 8° 23.8' W	Fl.R. period 5s fl. 0.5s, ec. 4.5s	30 9	1	Red round tower; 20.	
2584 <i>D 1722.2</i>	--S. corner.	43° 21.9' N 8° 23.8' W	Fl.G. period 5s fl. 0.5s, ec. 4.5s	30 9	2	Green round tower; 20.	
2588 <i>D 1723</i>	-Oil pier, head.	43° 21.4' N 8° 22.8' W	Fl.(2+1)R. period 21s		3	Red truncated tower, green band; 16.	
2592 <i>D 1718</i>	-Parrote Spur, entrance to marina basin, E. side.	43° 22.2' N 8° 23.7' W	Fl.(4)G. period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	36 11	1	Green post; 23.	
2596 <i>D 1720</i>	-Marina basin entrance, W. side, W. mole.	43° 22.2' N 8° 23.7' W	Q.R.	36 11	2	Red metal post; 23.	
2600 <i>D 1724</i>	Cayon, entrance Range, front.	43° 19.1' N 8° 35.9' W	Fl.W. period 2s fl. 0.8s, ec. 1.2s	56 17	4	White round concrete tower; 13.	
2604 <i>D 1724.1</i>	--Rear, 115 meters 147°10' from front.	43° 19.1' N 8° 35.9' W	Oc.W. period 4s lt. 3s, ec. 1s	148 45	4	White round concrete tower; 13.	
2606 <i>D 1725</i>	Dique de Abrigo.	43° 19.2' N 8° 36.4' W	Fl.(3)G. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	23 7	3	Green round tower; 13.	
2608 <i>D 1726</i>	Malpica, jetty, head.	43° 19.4' N 8° 48.4' W	Fl.G. period 3s fl. 0.5s, ec. 2.5s	66 20	4	White masonry tower; 13.	
2612 <i>D 1728</i>	Islas Sisargos.	43° 21.6' N 8° 50.7' W	Fl.(3)W. period 15s fl. 0.6s, ec. 2.4s fl. 0.6s, ec. 2.4s fl. 0.6s, ec. 8.4s	361 110	23	Octagonal granite tower with grayish white cupola on white dwelling; 33.	Siren: (200 meters W.) Mo.(S) ev. 30s (bl. 3s, si. 3s, bl. 3s, si. 3s, bl. 3s, si. 15s).
2613 <i>D 1729</i>	Punta Nariga.	43° 19.2' N 8° 54.5' W	Fl.(3+1)W. period 20s fl. 0.1s, ec. 2.4s fl. 0.1s, ec. 2.4s fl. 0.1s, ec. 7.4s fl. 0.1s, ec. 7.4s	180 55	22	Round masonry tower on building; 128.	
SPAIN-WEST COAST							
RIA DE CORME Y LAGE:							
2616 <i>D 1730</i>	-Punta del Roncudo, N. side of bay.	43° 16.5' N 8° 59.5' W	Fl.W. period 6s	125 38	10	White truncated conical tower; 36.	
2620 <i>D 1733</i>	-Corme, breakwater, head.	43° 15.7' N 8° 57.9' W	Fl.(2)R. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	46 14	3	Red round tower; 20.	
2624 <i>D 1734</i>	-Lage, breakwater, head.	43° 13.3' N 9° 00.0' W	Fl.G. period 3s fl. 0.5s, ec. 2.5s	56 17	4	Green round tower; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-WEST COAST							
2628 <i>D 1732</i>	-Punta Lage.	43° 13.9' N 9° 00.7' W	Fl.(5)W. period 20s	217 66	20	White truncated conical tower; 36.	
2632 <i>D 1736</i>	Cabo Villano.	43° 09.6' N 9° 12.7' W	Fl.(2)W. period 15s fl. 0.5s, ec. 3.5s fl. 0.5s, ec. 10.5s	341 104	28	Grayish yellow octagonal tower, white cupola; 82.	Visible 031°30'-228°30'. Siren: Mo.(V) ev. 60s (bl. 2s, si. 3s, bl. 2s, si. 3s, bl. 2s, si. 3s, bl. 6s, si. 39s).
	RACON		M(- -)		35		(3 & 10cm)
2636 <i>D 1738</i>	-Punta de Lago.	43° 06.6' N 9° 10.0' W	Oc.(2)W.R.G. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	49 15	W. 6 R. 4 G. 4	Round concrete tower; 31.	W. 029°30'-093°, G.-107°48', W.-109°06', R.-139°18', W.-213°30'.
RIA DE CAMARINAS:							
2640 <i>D 1739</i>	-Camarinas, end of Malecon.	43° 07.6' N 9° 10.9' W	Fl.(3)R. period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4.5s	33 10	4	Round masonry tower; 20.	
2644 <i>D 1736.3</i>	-Punta Villueira, Boca S. Range, front.	43° 07.4' N 9° 11.6' W	Fl.W. period 5s fl. 1s, ec. 4s	49 15	9	White round concrete tower, red bands; 23.	Visible 1°30' each side of range line.
2648 <i>D 1736.4</i>	--Rear, about 610 meters 079°40' from front.	43° 07.5' N 9° 11.1' W	Iso.W. period 4s	89 27	11	White round concrete tower, red bands; 25.	Visible 1°30' each side of range line.
2656 <i>D 1737</i>	-Punta de la Barca.	43° 06.8' N 9° 13.2' W	Oc.W. period 4s lt. 3s, ec. 1s	43 13	7	Gray truncated conical tower; 36.	
2660 <i>D 1740</i>	Cabo Torinana.	43° 03.2' N 9° 17.9' W	Fl.(2+1)W. period 15s fl. 0.2s, ec. 2.2s fl. 0.2s, ec. 6.1s fl. 0.2s, ec. 6.1s	213 65	24	White round tower; 36.	Visible 340°30'-235°30'.
2662	Torinana, Monte Xastas, RACON.	43° 01.8' N 9° 16.4' W	T(-)		35		(3 & 10cm)
2664 <i>D 1742</i>	Cabo Finisterre.	42° 52.9' N 9° 16.3' W	Fl.W. period 5s fl. 0.3s, ec. 4.7s	469 143	23	Octagonal granite tower, dwelling; 56.	Obscured when bearing greater than 149°. Siren: 2 bl. ev. 60s (bl. 2s, si. 6s, bl. 2s, si. 50s).
	RACON		O(- - -)		35		(3 & 10cm)
2666 <i>D 1744</i>	-Puerto de Finisterre, mole, head.	42° 54.6' N 9° 15.4' W	Fl.R. period 2s fl. 0.5s, ec. 1.5s	46 14	4	Red round tower; 16.	
RIA DE CORCUBION:							
2668 <i>D 1760</i>	-Cabo Cee, W side entrance to bay.	42° 55.0' N 9° 11.0' W	Fl.(5)W. period 13s	89 27	7	Octagonal granite tower, dwelling; 26.	
2672 <i>D 1762</i>	-Pier, head.	42° 56.7' N 9° 11.4' W	Fl.(2)R. period 8s fl. 1s, ec. 1.5s fl. 1s, ec. 4.5s	36 11	4	Square gray metal tower; 23.	
2676 <i>D 1758</i>	-Carrumeiro Chico, Corcubion Inlet, shoal.	42° 54.4' N 9° 10.8' W	Fl.(2)W. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	26 8	6	ISOLATED DANGER BRB, tower, topmark.	
RIA DE CAMARINAS:							
2680 <i>D 1756</i>	-Islote Lobeira Grande, center of island.	42° 52.8' N 9° 11.1' W	Fl.(3)W. period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 10.5s	59 18	9	White octagonal tower and hut; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-WEST COAST							
2682 D 1775	-Porto Cubelo, dique exterior, head.	42° 48.4' N 9° 08.2' W	Fl.G. period 2s fl. 0.5s, ec. 1.5s	33 10	4	Green round tower; 20.	Visible 169°-038°.
2684 D 1782	Punta Insua.	42° 46.3' N 9° 07.9' W	Fl.(3)W.R. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	85 26	W. 15 R. 14	6-sided tower, metal cupola and dwelling; 46.	R. 020°-045°, W.-070°, R.-090°, W.-125°, R.-152°, W.-020°.
RIA DE MUROS Y NOYA:							
2688 D 1784	-Punta Queixal, Monte Louro.	42° 44.4' N 9° 04.8' W	Fl.(2+1)W. period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 4.5s	89 27	10	Hexagonal granite tower, white octagonal lantern, dwelling; 23.	Obscured 081°-180°.
2692 D 1786	-Cabo Reburdino.	42° 46.2' N 9° 02.9' W	Fl.(2)R. period 7s fl. 0.5s, ec. 1s fl. 0.5s, ec. 5s	59 18	7	White hexagonal tower and white house; 26.	Visible 168°-019°.
2696 D 1788	-Muros, Dique Exterior, head.	42° 46.6' N 9° 03.3' W	Fl.(4)R. period 13s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 4.5s	26 8	4	Red round tower, white base; 20.	
2700 D 1792	-Punta Cabeiro.	42° 44.4' N 8° 59.4' W	Oc.W.R. period 3s lt. 2.2s, ec. 0.8s	121 37	W. 9 R. 6	Square stone tower; 13.	R. 050°-054°30', W.-058°30', R.-099°30', W.-189°30'.
2710 D 1791	-Puerto de Noya, N.	42° 47.7' N 8° 54.5' W	Fl.R. period 5s fl. 0.5s, ec. 4.5s	16 5	5	White tower; 20.	
2711 D 1791.2	--S. breakwater.	42° 47.6' N 8° 54.5' W	Fl.(2)G. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 6.5s	16 5	5	White tower; 20.	
2712 D 1790	--Muelle del Este, head.	42° 46.6' N 9° 03.4' W	F.R.	33 10	4	White round tower; 20.	
2716 D 1794	Cabo Corrubedo.	42° 34.6' N 9° 05.4' W	Fl.(2+3)W.R. period 20s fl. 0.4s, ec. 2s fl. 0.4s, ec. 2s fl. 0.4s, ec. 6s fl. 0.4s, ec. 2s fl. 0.4s, ec. 6s	105 32	15	Gray round tower.	Red sector visible 347°-040°. Siren: Mo.(O) ev. 60s (bl. 5s, si. 3s, bl. 5s, si. 3s, bl. 5s, si. 39s).
RACON							
2720 D 1795	Corrubedo, mole, head.	42° 34.3' N 9° 04.2' W	Iso.W.R.G. period 3s	39 12	W. 6 R. 4 G. 3	White truncated conical tower; 16.	W. 352°-360°, R.-016°, G.-352°.
RIA DE AROSA:							
2724 D 1796	-Isla de Salvora.	42° 27.9' N 9° 00.8' W	Fl.(3+1)W. period 20s fl. 0.4s, ec. 2.3s fl. 0.4s, ec. 2.3s fl. 0.4s, ec. 6.9s fl. 0.4s, ec. 6.9s	125 38	21	White octagonal tower, red band; 52.	Clear sector visible 217°-126°.
			Fl.(3)W. period 20s fl. 0.4s, ec. 2.3s fl. 0.4s, ec. 2.3s fl. 0.4s, ec. 14.2s				Danger sector visible 126°-160°.
2732 D 1798	-Piedras del Sargo, on E. rock.	42° 30.3' N 9° 00.5' W	Q.G.	43 13	8	White truncated tower, green band; 39.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-WEST COAST							
2736 D 1799	-Port Aguino, mole, head.	42° 31.1' N 9° 00.9' W	Fl.(4)W.R. period 11s			5 Red post.	W. 026°-040°, R.-026°.
2738 D 1799.5	-Islas de Sagres.	42° 30.5' N 9° 02.9' W	Fl.W. period 5s	82 25		8 Round metal column; 10.	
2740 D 1800	-Bajo Pomberirino, rock.	42° 28.9' N 8° 56.8' W	Fl.(2)G. period 12s fl. 1s, ec. 2.5s fl. 1s, ec. 7.5s	49 15		8 White truncated conical tower, green band; 46.	
2748 D 1816	-Bajo La Loba, S. rock.	42° 31.8' N 8° 55.0' W	Q.G.	33 10		3 Green truncated conical tower.	
RIA DE ROSA:							
2752 D 1824	-Bajo Piedra Seca.	42° 32.9' N 8° 55.2' W	Fl.(3)G. period 15s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 8s	39 12		8 White truncated tower, green band.	
2756 D 1818	-Isla Rua, center of island.	42° 32.9' N 8° 56.4' W	Fl.(2+1)W.R. period 21s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 13.5s	85 26		13 Gray round tower, dwelling; 46.	W. 211°30'-121°30', R.- 211°30'.
	-RACON		G(- - •)				(3 & 10 cm)
2760 D 1822	-Bajo Llagareos de Tierra, on the shoal.	42° 33.4' N 8° 59.0' W	Q.R.	26 8		4 White conical tower; 23.	
2764 D 1820	-Santa Eugenia de Riveira, pier, head.	42° 33.6' N 8° 59.2' W	Fl.(2)R. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	30 9		4 Red round tower; 20.	
2768 D 1826	-Punta Caballo, Arosa Island, NW. side.	42° 34.3' N 8° 53.0' W	Fl.(4)W. period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	43 13		10 Gray masonry octagonal tower on white house; 16.	
2772 D 1827	-Isla de Arosa, mole, head.	42° 33.9' N 8° 52.1' W	Q.R.	30 9		3 Red masonry column; 20.	
2776 D 1828	-Bajo Sinal de Oestreira.	42° 35.7' N 8° 54.8' W	Fl.R. period 5s fl. 0.5s, ec. 4.5s	33 10		5 Red and white truncated conical tower; 33.	
2780 D 1830	-Puebla del Caraminal, mole, head.	42° 36.3' N 8° 56.0' W	Fl.(2)R. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	30 9		6 Red and white round concrete tower; 23.	
2781 D 1830.4	--Pier, head.	42° 36.3' N 8° 55.9' W	Fl.(3)G. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	33 10		5 Green and white round tower; 20.	
2784 D 1831	Puerto de Escarbote, mole, head.	42° 38.1' N 8° 54.6' W	Fl.(3)W.R. period 7s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3.5s	23 7		3 Masonry column.	W. 340°-010°, R.-340°.
2788 D 1842	-Carril, mole, head.	42° 36.8' N 8° 46.7' W	Fl.(3)G. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s			5 Green square tower.	Fl.(4)G. 11s 1M light close N.
2796 D 1838	-Villajuan, mole, head.	42° 35.4' N 8° 47.5' W	Fl.(2)G. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	20 6		3 Green column; 10.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-WEST COAST							
2804 <i>D 1834</i>	-Villanueva, Rio Curras entrance, N. side, mole, head.	42° 33.8' N 8° 49.9' W	Fl.(2+1)G. period 15s	30 9	1	STARBOARD (A) G, beacon, topmark; 20.	
2807 <i>D 1815</i>	-Cambados, shelter dike.	42° 31.0' N 8° 49.7' W	Fl.(3)R. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	36 11	3	Red round tower; 16.	
2808 <i>D 1814</i>	-Breakwater, S. head.	42° 30.8' N 8° 49.2' W	Fl.(3)R. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	30 9	8	Prismatic tower; 20.	
2812 <i>D 1808</i>	--Bajo Lobeira de Cambodas, off S. extremity.	42° 30.7' N 8° 51.9' W	Fl.(3)R. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	33 10	5	Red and white truncated conical tower; 33.	
2820 <i>D 1806</i>	-Bajo Praguero.	42° 31.0' N 8° 52.8' W	Fl.(4)G. period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	30 9	5	White truncated conical tower, green band.	
2824 <i>D 1810</i>	-Bajo Golfeira.	42° 30.3' N 8° 52.0' W	Q.G.	33 10	3	Green and white truncated conical tower; 33.	
2828 <i>D 1812</i>	-Puerto El Grove, W. breakwater, head.	42° 29.8' N 8° 51.5' W	Fl.(2)G. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	36 11	3	Green round tower; 26.	
2832 <i>D 1846</i>	Isla Ons.	42° 22.9' N 8° 56.2' W	Fl.(4)W. period 24s	417 127	25	Octagonal tower; 39.	
2836 <i>D 1847</i>	Playa del Curro, pier.	42° 22.6' N 8° 55.9' W	Fl.R. period 4s fl. 0.5s, ec. 3.5s	30 9	2	Red round tower; 16.	
RIA DE MARIN:							
2840 <i>D 1848</i>	-Bajo Camouco, on S. rock.	42° 24.0' N 8° 55.0' W	Fl.(3)R. period 18s fl. 1s, ec. 2.5s fl. 1s, ec. 2.5s fl. 1s, ec. 10s	33 10	8	Tower beacon; 23.	
2844 <i>D 1850</i>	-Bajo Picamillo.	42° 24.3' N 8° 53.4' W	Fl.G. period 5s fl. 0.5s, ec. 4.5s	39 12	8	Tower beacon; 42.	
2848 <i>D 1855</i>	-Portonovo, Dique-muelle, head.	42° 23.6' N 8° 49.2' W	Fl.(3)R. period 6s fl. 0.3s, ec. 1s fl. 0.3s, ec. 1s fl. 0.3s, ec. 3.1s	37 11	4	Red metal column; 19.	
2852 <i>D 1856</i>	-Sangenjo, N. side of bay, mole, head.	42° 23.9' N 8° 48.3' W	Fl.(4)R. 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	Red metal tower; 20.	
2854 <i>D 1858</i>	-Puerto de Rajo, mole, head.	42° 24.1' N 8° 45.3' W	Fl.(2)R. period 8s	36 11	3		
2856 <i>D 1860</i>	-Punta Tenlo Chico, Isla Tambo.	42° 24.5' N 8° 42.5' W	Oc.(3)W. period 8s	115 35	11	White round tower, upper part conical.	
-Pontevedra:							
2860 <i>D 1862</i>	--N. jetty, head.	42° 24.9' N 8° 41.5' W	Fl.R. period 5s fl. 0.5s, ec. 4.5s	23 7	4	White prismatic tower.	2 Fl.R. 3s on training wall.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-WEST COAST							
2864 <i>D 1864</i>	--S. Jetty, head.	42° 24.8' N 8° 41.2' W	Fl.G. period 5s fl. 0.5s, ec. 4.5s	23 7	6	White prismatic tower.	2 Fl.G. on training wall.
2866 <i>D 1865.6</i>	-Combarro, mole, head.	42° 25.8' N 8° 42.3' W	Fl.(2)R. period 8s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	29 9	3	Red round tower; 20.	
2868 <i>D 1866</i>	-Marin, W. mole, head.	42° 23.9' N 8° 42.3' W	Fl.(3)G. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	30 9	6	Green round column, white base; 20.	
2872 <i>D 1867</i>	--Muelle Comercial, head.	42° 24.0' N 8° 42.1' W	Fl.(2+1)G. period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 4.5s	23 7	2	Green round column, red band; 13.	
2876 <i>D 1868.4</i>	--Puerto Pesquera, N. mole.	42° 24.0' N 8° 41.8' W	Fl.(2)R. period 6s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 3.5s	23 7	2	Red round column, white base; 13.	
2880 <i>D 1870</i>	-Bueu, mole, head.	42° 19.7' N 8° 47.1' W	Fl.(2)R. period 6s fl. 0.4s, ec. 1.4s fl. 0.4s, ec. 3.8s	23 7	4	Red metal mast; 10.	
2884 <i>D 1871</i>	--Dique Norte, head.	42° 19.8' N 8° 47.1' W	Fl.G. period 3s fl. 0.3s, ec. 2.7s	31 9	4	Green metal pillar; 20.	
2888 <i>D 1872</i>	-Bajo Mourisca.	42° 20.9' N 8° 49.2' W	Fl.(2)G. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	39 12	5	Beacon tower.	
2896 <i>D 1873</i>	Punta Couso.	42° 18.6' N 8° 51.3' W	Fl.(3)W.G. period 10.5s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 4.5s	66 20	W. 10 G. 8	White and green round masonry tower; 16.	G. 060°-096°, W.-190°, G.-000°.
2900 <i>D 1873.4</i>	Aldan wharf.	42° 16.8' N 8° 49.4' W	Fl.(2)R. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	23 7	5	Red metal tower; 26.	
RIA DE VIGO:							
2904 <i>D 1874</i>	-Punta Robaleira, Cabo del Home, N. entrance to bay.	42° 15.0' N 8° 52.4' W	Fl.(2)W.R. period 7.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5s	89 27	W. 11 R. 9	Red tower; 19.	W. 300°-30'-321°30', R.-090°, obsc.-115°30', R.-170°30'.
-RACON			C(- • - •)	(3 & 10 cm)			
2908 <i>D 1876</i>	-Cabo del Home Range, front, on Cabo del Home.	42° 15.2' N 8° 52.4' W	Fl.W. period 3s fl. 1.3s, ec. 1.7s	124 38	9	Red column on white round tower; 61.	Visible 090°-180°.
2912 <i>D 1876.1</i>	--Punta Subrido, rear, 815 meters 129° from front.	42° 14.9' N 8° 51.9' W	Oc.W. period 6s fl. 4.3s, ec. 1.7s	174 53	11	Red column on white round tower; 44.	Visible 090°-180°.
-Islas Cies:							
2916 <i>D 1882</i>	--Monte Agudo, on Isla Cies del Norte, E. side.	42° 14.6' N 8° 54.2' W	Fl.G. period 5s fl. 0.5s, ec. 4.5s	82 25	10	Tower and white wall; 16.	Visible 146°30'-334°.
2920 <i>D 1884</i>	--Monte Faro.	42° 12.8' N 8° 54.9' W	Fl.(2)W. period 8s fl. 1s, ec. 1s fl. 1s, ec. 5s	614 187	22	Tower and cabin; 33.	Obscured 315°-016°30' over Bajos de los Castros and Forcados.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-WEST COAST							
2924 <i>D 1886</i>	--Punta Canabal, S. end of Isla Faro.	42° 12.7' N 8° 54.8' W	Fl.(3)W. period 20s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 15.5s	213 65	10	White tower; 32.	
2928 <i>D 1888</i>	--Cabo Vicos, Isla San Martin, SE. point, Ria de Vigo, S. entrance.	42° 11.5' N 8° 53.5' W	Fl.(3)R. period 9s	308 94	10	White tower; 23.	Visible 210°30'-108°.
2932 <i>D 1889</i>	--Isla Boeiro.	42° 10.7' N 8° 54.6' W	Fl.(2)R. period 8s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	75 23	5	White truncated tower; 20.	
2936 <i>D 1891</i>	--Punta Lameda, S. entrance point of bay, E. side.	42° 09.3' N 8° 50.8' W	Fl.(2)G. period 8s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	95 29	5	White tower; 13.	
2938 <i>D 1907</i>	--Las Serralleiras.	42° 08.8' N 8° 52.6' W	Fl.G. period 4s fl. 0.4s, ec. 3.6s	36 11	5	White truncated conical tower; 20.	
2940 <i>D 1890</i>	-- Cabo Estay Range , front.	42° 11.1' N 8° 48.9' W	Iso.W. period 2s	59 18	18	Red truncated pyramidal tower, white bands; 26.	Visible 066°18'-072°18'. Nautophone: Mo.(V) ev. 60s (bl. 1.5s, si. 1.5s, bl. 1.5s, si. 1.5s, bl. 1.5s, si. 1.5s, bl. 9s, si. 42s).
	--RACON		B(- • • •)				
2944 <i>D 1890.1</i>	--Rear, 660 meters 069°20' from front.	42° 11.2' N 8° 48.4' W	Oc.W. period 4s lt. 3s, ec. 1s	164 50	18	Red truncated pyramidal tower, white bands; 23.	Visible 066°18'-072°18'.
2948 <i>D 1893</i>	--Canido (Toralla) Range, front, breakwater, head.	42° 11.7' N 8° 48.0' W	Q.G.	39 12	5	White and green tower; 23.	
2949 <i>D 1893.1</i>	--Rear, 356 meters 116°54' from front.	42° 11.6' N 8° 47.8' W	Oc.G. period 4s lt. 3s, ec. 1s	49 15	3	Metal tower, white square with black diamond daymark; 30.	
2956 <i>D 1894</i>	--Bajo Tofino.	42° 13.7' N 8° 46.7' W	Fl.(4)G. period 14s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	36 11	5	Round tower, upper part green, lower white, marked 3.	
2957 <i>D 1895.55</i>	--Al Cabre.	42° 13.5' N 8° 46.1' W	Q.G.	20 6	1	Metal column; 10.	
2960 <i>D 1892</i>	--Punta Borneira, No. 6.	42° 14.4' N 8° 47.5' W	Fl.(2)R. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	43 13	5	Red and white tower; 36.	Radar reflector.
2962 <i>D 1894.5</i>	--Dique Frigorificos del Morrazo, head.	42° 15.3' N 8° 47.1' W	Fl.(2)R. period 7s	23 7	3	Red round tower; 16.	Visible 080°-360°.
2964 <i>D 1895</i>	--Cangas, outer mole, head.	42° 15.6' N 8° 46.9' W	Fl.R. period 5s fl. 0.5s, ec. 4.5s	33 10	5	Red round tower; 19.	
2968 <i>D 1895.4</i>	--Inner mole, head.	42° 15.7' N 8° 46.9' W	Fl.(2+1)R. period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 7.5s	7 2	1	Red lantern.	
2970 <i>D 1895.5</i>	--Passenger wharf, head.	42° 15.7' N 8° 47.0' W	Fl.G. period 4s fl. 0.5s, ec. 3.5s		1	Green post.	
2971 <i>D 1895.94</i>	--Bouzas, marina, NE head.	42° 14.1' N 8° 44.7' W	Fl.(2+1)G. period 15s fl. 1s, ec. 2s fl. 1s, ec. 5s fl. 1s, ec. 5s	33 10	5	Green round tower, red band; 20.	Obscured 061°-110°. Radar reflector.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-WEST COAST							
2971.2 <i>D 1895.97</i>	--Floating breakwater, elbow.	42° 14.1' N 8° 44.5' W	Fl.(2)G. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	10 3	1	Green post; 7.	Synchronized with 2971.3.
2971.3 <i>D 1895.98</i>	---Head.	42° 14.0' N 8° 44.4' W	Fl.(2)G. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	10 3	1	Green post; 7.	Synchronized with 2971.2.
2972 <i>D 1896</i>	--Dique Muelle, head.	42° 14.0' N 8° 44.4' W	Fl.(2+1)G. period 15s fl. 1s, ec. 1s fl. 1s, ec. 3s fl. 1s, ec. 8s	33 10	5	Green tower, red band; 16.	Obscured 061°-110°. Radar reflector.
2976 <i>D 1895.8</i>	-Ferry jetty, NE. corner.	42° 14.1' N 8° 45.1' W	Fl.G. period 4s fl. 0.5s, ec. 3.5s	33 10	5	Green 4-sided tower; 13.	Visible 072°-319°.
2978 <i>D 1895.7</i>	--NW. corner.	42° 13.8' N 8° 45.8' W	Q.W.	26 8	5	N. CARDINAL BY, topmark.	Radar reflector.
2980 <i>D 1895.9</i>	--E. corner.	42° 14.0' N 8° 45.1' W	Fl.G. period 4s fl. 0.5s, ec. 3.5s	33 10	5	Green round tower; 13.	Visible 156°30'-066°30'.
	-Vigo:						
2988 <i>D 1898</i>	--Muelle del Berbes, NE. head.	42° 14.4' N 8° 44.0' W	Fl.(3)G. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	33 10	5	Green tower; 19.	
2992 <i>D 1900</i>	--Muelle Trasatlanticos, W. head.	42° 14.4' N 8° 43.9' W	Fl.(2)R. period 7s	33 10	5	Masonry column; 20.	Radar reflector.
2996 <i>D 1900.2</i>	---E. end, dolphin.	42° 14.6' N 8° 43.5' W	Fl.(4)G. period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	33 10	5	Green post; 16.	Q.R. 10m 5M and Q.G. 5M mark entrance to yacht harbor 220 meters SE. Radar reflector.
3000 <i>D 1901</i>	--Muelle de Transveral.	42° 14.6' N 8° 42.9' W	Fl.G. period 5s fl. 0.5s, ec. 4.5s	33 10	5	Green tower; 16.	Radar reflector.
3002 <i>D 1901.2</i>	--Muelle de Guixar, N. head.	42° 15.0' N 8° 42.6' W	Fl.(3)R. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	33 10	5	Red tower; 20.	Radar reflector.
3004 <i>D 1897</i>	--Darsena No. 4, breakwater, head.	42° 14.0' N 8° 44.2' W	Fl.R. period 5s fl. 0.5s, ec. 4.5s	33 10	5	Metal tower; 20.	Obscured 200°-300°. Radar reflector.
3010 <i>D 1901.3</i>	--Lagoa Marina, breakwater, head.	42° 15.5' N 8° 42.5' W	Q.G.	10 3	2	Green round column; 10.	
3012 <i>D 1901.5</i>	-La Guia.	42° 15.6' N 8° 42.1' W	Oc.(2+1)W. period 20s lt. 5.3s, ec. 2.4s lt. 2.2s, ec. 2.4s lt. 5.3s, ec. 2.4s	121 37	15	White round tower; 69.	A F.R. light is shown on pier about 915 meters and a F.G. light on pier about 640 meters E. of Punta Areino.
3014 <i>D 1904.6</i>	-Domayo, pier, head.	42° 17.0' N 8° 41.0' W	Fl.R. period 5s fl. 0.5s, ec. 4.5s	20 6	5	Red column.	Visible 074°-341°.
3016 <i>D 1895.6</i>	-El Pego bank.	42° 15.5' N 8° 45.0' W	Fl.(4)R. period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	30 9	5	Red round tower; 13.	Radar reflector.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-WEST COAST							
3020 <i>D 1901.6</i>	-El Con, pier.	42° 16.3' N 8° 44.2' W	Fl.(4)R. period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	36 11	5	Red brick round tower; 19.	
3024 <i>D 1902</i>	-Moana, breakwater, head.	42° 16.5' N 8° 44.1' W	Fl.(3)R. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	30 9	5	Red post; 20.	
3029 <i>D 1902.6</i>	--Breakwater, head.	42° 16.9' N 8° 43.2' W	Fl.(2)R. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	23 7	5	Red column; 13.	
3032 <i>D 1912</i>	-Punta Tenaza, Bayona, mole, head.	42° 07.5' N 8° 50.7' W	Q.G.	39 12	5	White and green tower; 29.	
3040 <i>D 1911</i>	-Cabezo de San Juan (Pego Shoal) Range, front.	42° 08.2' N 8° 50.2' W	Fl.W. period 6s fl. 0.5s, ec. 5.5s	30 9	10	White truncated conical tower.	
3044 <i>D 1911.1</i>	--Panjon, rear, 2 km. 084° from front.	42° 08.1' N 8° 49.0' W	Oc.W. period 4s lt. 3s, ec. 1s	62 19	9	White truncated tower on octagonal base; 29.	
3048 <i>D 1914</i>	-Panxon, mole, head.	42° 08.5' N 8° 49.5' W	Fl.(3)R. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	39 12	5	Red and white tower; 23.	Visible 110°-060°.
3052 <i>D 1916</i>	Cabo Silleiro.	42° 06.2' N 8° 53.8' W	Fl.(2+1)W. period 15s fl. 0.4s, ec. 2.2s fl. 0.4s, ec. 5.8s fl. 0.4s, ec. 5.8s	279 85	24	White octagonal tower, red bands on red structure; 98.	
LA GUARDIA:							
3066 <i>D 1920.5</i>	-Breakwater, head.	41° 54.1' N 8° 52.9' W	Fl.(2)R. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	43 13	5	Red truncated conical tower; 10.	
3068 <i>D 1921</i>	-Mole, head.	41° 54.0' N 8° 52.8' W	Fl.(2)G. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	43 13	5	Green truncated conical tower; 10.	Siren: Mo.(L) ev.30s (bl. 1.5s, si. 1.5s, bl. 4.5s, si. 1.5s, bl. 1.5s, si. 1.5s, bl. 1.5s, si. 16.5s).
3072 <i>D 1924</i>	Camposancos, Rio Mino, N. bank, mole.	41° 53.3' N 8° 51.0' W	Fl.R. period 4s fl. 1s, ec. 3s	23 7	3	Red round tower; 20.	

Section 3

Portugal, Southwest Coast of Spain and Gibraltar

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PORTUGAL							
3076 <i>D 2002</i>	Insua.	41° 51.5' N 8° 52.5' W	Fl.W.R.G. period 4s fl. 1s, ec. 3s	56 17	W. 12 R. 9 G. 8	White column, square base; 23.	W. 357°-204°, G.-270°, R.-357°.
3080 <i>D 2003</i>	Moledo Range, front.	41° 50.9' N 8° 51.7' W	Oc.R. period 5s lt. 3s, ec. 2s	43 13	6	Column, red and white bands; 10.	Visible over an arc of 90°.
3084 <i>D 2003.1</i>	-Rear, 25 meters 099°30' from front.	41° 50.9' N 8° 51.9' W	Oc.R. period 5s lt. 3s, ec. 2s	56 17	6	White octagonal column, red stripes; 23.	Visible over an arc of 90°.
3090 <i>D 2006</i>	Praia de Ancora.	41° 48.9' N 8° 52.0' W	Fl.(2)R. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	52 16	9	White tower, red bands; 26.	Siren: 1 bl. ev. 60s. (bl. 10s, si. 50s).
3096 <i>D 2008</i>	Cabo Montedor.	41° 45.0' N 8° 52.5' W	Fl.(2)W. period 9.5s fl. 0.2s, ec. 1.7s fl. 0.2s, ec. 7.4s	338 103	22	Square masonry tower, dwelling; 92.	Nautophone: (about 503 meters WSW,) 3 bl. ev. 25s (bl. 2s, si. 2s, bl. 2s, si. 2s, bl. 2s, si. 15s).
VIANA DO CASTELO:							
3099 <i>D 2012.8</i>	-Outer breakwater, head.	41° 40.4' N 8° 50.6' W	Fl.R. period 3s fl. 1s, ec. 2s		9	Round tower, red and white bands; 33.	Nautophone: 1 bl. ev. 30s (bl. 10s, si. 20s).
3100 <i>D 2012</i>	-Rio Lima, Barra Sul, entrance Range, front.	41° 41.2' N 8° 50.3' W	Iso.R. period 4s	49 15	5	Red round tower, white gallery and lantern; 20.	Visible 241°-151°.
3104 <i>D 2012.1</i>	--Senhora da Agonia, rear, 503 meters 012°30' from front.	41° 41.5' N 8° 50.1' W	Oc.R. period 6s lt. 4s, ec. 2s	108 33	5	Red round tower, white gallery and lantern; 29.	Visible 007°30' on each side of range line.
3120 <i>D 2015</i>	Rio Neiva Range, front.	41° 37.6' N 8° 49.0' W	Oc.G. period 6s lt. 4s, ec. 2s	43 13	6	Post, red and white bands, diamond daymark.	
3124 <i>D 2015.1</i>	-Rear, 61 meters 064°54' from front.	41° 37.2' N 8° 48.7' W	Oc.G. period 6s lt. 4s, ec. 2s	62 19	6	Post, red and white bands, orange double triangular daymark, bases together.	
3128 <i>D 2016</i>	Esposende.	41° 32.5' N 8° 47.4' W	Fl.W. period 5s fl. 0.1s, ec. 4.9s	65 20	20	Red tower, yellow building attached; 49.	Nautophone: 1 bl. ev. 20s (bl. 5s, si. 15s).
3132 <i>D 2016.2</i>	Apulia Range, front.	41° 29.1' N 8° 46.8' W	Fl.R. period 2s fl. 0.3s, ec. 1.7s	46 14	6	Post, red and white bands; 23.	Visible 340°24'-160°24'. Siren: 1 bl. ev. 75s (bl. 15s, si. 60s).
3136 <i>D 2016.21</i>	-Rear, 55 meters 070°24' from front.	41° 29.0' N 8° 47.0' W	L.Fl.R. period 6s fl. 2s, ec. 4s	69 21	6	Yellow daymark, red bands, on building; 46.	Visible 340°24'-160°24'.
POVOA DE VARZIM:							
3160 <i>D 2020.4</i>	-Molhe Norte, head.	41° 22.2' N 8° 46.2' W	Fl.R. period 3s fl. 1s, ec. 2s	46 14	12	Metal tower; 16.	
3164 <i>D 2020.6</i>	-Molhe Sul, head.	41° 22.2' N 8° 46.0' W	L.Fl.G. period 6s fl. 2s, ec. 4s		4	Metal tower; 13.	Siren: 1 bl. ev. 40s (bl. 10s, si. 30s).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PORTUGAL							
VILA DO CONDE:							
3188 D 2024	-Bar Range, front, N. side of entrance to Rio Ave.	41° 20.4' N 8° 44.8' W	Oc.R. period 3s fl. 2s, ec. 1s	23 7	6	Red pylon; 16.	Second entrance range.
3192 D 2024.1	--Rear, about 86 meters 356° 42' from front.	41° 20.6' N 8° 44.9' W	Oc.R. period 3s	39 12	6	Red iron post on red hut; 16.	
3196 D 2023	-Azurara, first Range, front.	41° 20.1' N 8° 44.3' W	Iso.G. period 4s	33 10	6	Post, red and white bands; 23.	
3200 D 2023.1	--Rear, 100 meters 079°24' from front.	41° 20.2' N 8° 44.0' W	Iso.G. period 4s	89 27	6	Post, red and white bands; 20.	
3204 D 2023.7	-N. mole, head.	41° 20.1' N 8° 44.9' W	Fl.R. period 4s fl. 1s, ec. 3s	30 9	9	Column; 26.	Siren: 1 bl. ev. 30s (bl. 10s, si. 20s).
3208 D 2027	Vila Cha Range, front.	41° 17.6' N 8° 44.1' W	Fl.R. period 3s fl. 1s, ec. 2s	30 9	6	Round column, red and white bands; 18.	Siren: 1 bl. ev. 60s.
3212 D 2027.1	--Rear, 140 meters ENE. of front.	41° 17.5' N 8° 43.9' W	Fl.R. period 3s fl. 1s, ec. 2s	49 15	6	Round column, red and white bands; 18.	
3216 D 2028.4	Angeiras, first entrance Range, front.	41° 15.8' N 8° 43.6' W	Oc.R. period 6s fl. 4s, ec. 2s	26 8	6	Post.	Leads to shelter at sea south of Leixoes.
3220 D 2028.5	--Rear, 042°30' from front.	41° 15.8' N 8° 43.6' W	Oc.R. period 6s fl. 4s, ec. 2s	33 10	6	Post.	
3224 D 2029	Angeiras Range, front.	41° 15.7' N 8° 43.5' W	Oc.G. period 5s fl. 3s, ec. 2s	30 9	5	Iron column; 13.	Siren: (on Guarita watch tower NE.) 1 bl. ev. 60s (bl. 30s, si. 30s).
3228 D 2029.1	--Rear, 234 meters 062°30' from front.	41° 15.8' N 8° 43.4' W	Oc.G. period 5s fl. 4s, ec. 1s	43 13	5	Iron column; 13.	
3232 D 2031	Pedras Rubras AVIATION LIGHT.	41° 14.1' N 8° 40.4' W	Al.FI.W.G. period 10s	279 85		Control tower; 52.	
3236 D 2032	Leca.	41° 12.0' N 8° 42.6' W	Fl.(3)W. period 14s fl. 0.2s, ec. 2.1s fl. 0.2s, ec. 2.1s fl. 0.2s, ec. 9.2s	190 58	28	White round concrete tower, narrow black bands, attached buildings; 151.	F.R. lights are shown from radio masts at Boa Nova.
3240 D 2034	-Quebra-mar, oil terminal, head.	41° 10.3' N 8° 42.4' W	Fl.W.R. period 5s fl. 0.5s, ec. 4.5s	79 24	W. 12 R. 9	Truncated tower.	R. 001°-180°, W.-001°. Reserve light range 8/7M. Nauphone: 1 bl. ev. 20s (bl. 5s, si. 15s).
3244 D 2036	-S. breakwater, head.	41° 10.6' N 8° 42.3' W	Fl.G. period 4s fl. 1s, ec. 3s	56 17	7	Hexagonal tower; 33.	Visible 328°-285°. Nauphone: 1 bl. ev. 30s (bl. 10s, si. 20s).
3248 D 2038	-N. breakwater spur, head.	41° 10.6' N 8° 42.4' W	Fl.R. period 4s fl. 1s, ec. 3s	29 9	6	Red lantern on red structure; 13.	Visible 173°-353°.
3249 D 2037	-Cais Oeste.	41° 11.1' N 8° 42.2' W	L.FI.(2)R. period 12s fl. 2s, ec. 3s fl. 2s, ec. 5s	16 5	2	White post, red bands.	
RIO DOURO:							
3253 D 2045	-S. mole, pier, head.	41° 08.7' N 8° 40.5' W	Fl.G. period 5s fl. 0.5s, ec. 4.5s	49 15	6	White column, green stripes.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PORTUGAL							
3254 <i>D 2045.5</i>	-N. mole, pier, head.	41° 08.7' N 8° 40.8' W	Fl.R. period 5s fl. 0.5s, ec. 4.5s	56 17	9	White column, red stripes; 20.	
3255 <i>D 2047</i>	-Barra Foz Range, front.	41° 08.9' N 8° 40.3' W	Oc.Y. period 5s lt. 3s, ec. 2s	39 12	6	Red column, white stripes on wall; 20.	Daytime range 3M.
3255.5 <i>D 2047.1</i>	--Rear, about 275 meters 059°12' from front.	41° 08.9' N 8° 40.1' W	Oc.Y. period 5s lt. 3s, ec. 2s	125 38	6	Red structure, white stripes on church tower; 3.	Daytime range 3M.
3264 <i>D 2052</i>	Praia da Aguda Range, front.	41° 02.7' N 8° 39.1' W	L.Fl.R. period 6s fl. 2s, ec. 4s	52 16	6	Post, red and white bands; 26.	Visible 002°06'-137°06'. Siren: 1 bl. ev. 30s (bl. 10s, si. 20s).
3268 <i>D 2052.1</i>	-Rear, about 49 meters 069°36' from front.	41° 02.7' N 8° 39.1' W	L.Fl.R. period 6s fl. 2s, ec. 4s	66 20	6	Post, red and white bands; 39.	Visible 002°06'-137°06'.
3269 <i>D 2052.5</i>	-E.	40° 58.4' N 8° 38.9' W	Fl.Y. period 5s fl. 1s, ec. 4s	33 10	9	Tower on black structure, yellow bands; 13.	Marks outfall.
3270 <i>D 2059.59</i>	-J, on beach.	40° 40.4' N 8° 44.5' W	Fl.Y. period 5s fl. 1s, ec. 4s	33 10	9	Tower on black structure, yellow bands; 13.	
3271 <i>D 2057</i>	-N. mole, head.	40° 38.6' N 8° 45.8' W	Fl.R. period 3s fl. 0.5s, ec. 2.5s	39 12	8	White column, red bands; 20.	
3272 <i>D 2056</i>	Aveiro.	40° 38.5' N 8° 44.8' W	Fl.(4)W. period 13s fl. 0.3s, ec. 2s fl. 0.3s, ec. 2s fl. 0.3s, ec. 2s fl. 0.3s, ec. 5.8s	217 66	23	Red round tower, white bands, on center of two-story building; 203.	Aeromarine light.
			Fl.G. period 4s	177 54	9	Same structure; 164.	Visible 065°24'-105°24'.
3280 <i>D 2058</i>	-S. mole.	40° 38.4' N 8° 45.4' W	Fl.G. period 3s fl. 0.5s, ec. 2.5s	56 17	9	Truncated tower, green and white bands; 39.	
3281 <i>D 2056.2</i>	-Entrance Range, front.	40° 38.7' N 8° 44.9' W	Oc.R. period 3s lt. 2s, ec. 1s	26 8	9	Red column; 16.	
3282 <i>D 2056.21</i>	--Rear, 440 meters 065°12' from front.	40° 38.9' N 8° 44.7' W	Oc.R. period 6s lt. 4s, ec. 2s	52 16	9	Red column; 43.	Visible 060°36'-070°36'.
3284 <i>D 2060</i>	Cabo Mondego.	40° 11.4' N 8° 54.2' W	Fl.W. period 5s fl. 0.2s, ec. 4.8s	318 97	28	White square masonry tower, dwelling; 49.	Horn: 1 bl. ev. 28s (bl. 6s, si. 22s).
FIGUEIRA DA FOZ:							
3296 <i>D 2066</i>	-N. mole, head.	40° 08.7' N 8° 52.5' W	Fl.R. period 6s fl. 1.5s, ec. 4.5s	46 14	9	White column, red bands; 30.	Nautophone: 1 bl. ev. 35s (bl. 10s, si. 25s).
3300 <i>D 2068</i>	-S. mole, head.	40° 08.5' N 8° 52.3' W	Fl.G. period 6s fl. 0.5s, ec. 5.5s	46 14	7	White column, green bands; 23.	
3304 <i>D 2069</i>	-Bar Range, front.	40° 08.8' N 8° 51.9' W	Iso.R. period 5s	23 7	8	White column, red bands; 13.	
3308 <i>D 2069.1</i>	--Rear, 081°30' from front.	40° 08.8' N 8° 51.0' W	Oc.R. period 6s lt. 4s, ec. 2s	36 11	8	White column, red bands; 23.	
3312 <i>D 2072</i>	Penedo da Saudade.	39° 45.8' N 9° 01.8' W	Fl.(2)W. period 15s fl. 0.2s, ec. 3.5s fl. 0.2s, ec. 11.1s	180 55	30	Square masonry tower, dwelling attached; 105.	Aeromarine light.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PORTUGAL							
3316 <i>D 2074</i>	Nazare, fort (Morro de Nazare), SW. corner.	39° 36.2' N 9° 05.0' W	Oc.W. period 3s lt. 2s, ec. 1s	164 50	14	Red lantern on wall of fort; 26.	Visible 282°-192°. L.F.I.R. and L.F.I.G. lights mark head of moles. Siren: 1 bl. ev. 35s (bl. 10s, si. 25s).
SAO MARTINHO DO PORTO:							
3320 <i>D 2076</i>	-Ponta de Santo Antonio.	39° 30.5' N 9° 08.5' W	L.F.I.R. period 6s fl. 2s, ec. 4s	108 33	9	White round tower, red bands.	Siren: 1 bl. ev. 60s.
3324 <i>D 2078</i>	-Range, front.	39° 30.1' N 9° 08.3' W	Is.O.R. period 1.5s	33 10	9	Round tower, red and white bands.	
3328 <i>D 2078.1</i>	--Rear, about 127 meters 145° from front.	39° 30.1' N 9° 08.2' W	Oc.R. period 6s lt. 5s, ec. 1s	39 12	6	Round tower, red and white bands.	
3332 <i>D 2084</i>	Fariilhaos.	39° 28.7' N 9° 32.7' W	Fl.(2)W. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	328 100	13	Round red tower; 20.	
3336 <i>D 2086</i>	Berlenga.	39° 24.8' N 9° 30.5' W	Fl.W. period 10s fl. 1s, ec. 9s	397 121	16	White square masonry tower, dwelling attached; 95.	Horn: 1 bl. ev. 28s (bl. 6s, si. 22s).
3340 <i>D 2088</i>	Cabo Carvoeiro.	39° 21.5' N 9° 24.4' W	Fl.R. period 6s fl. 2s, ec. 4s	187 57	15	White square masonry tower, attached dwellings; 88.	Reserve light range 13M. Nautophone: 1 bl. ev. 35s (bl. 10s, si. 25s).
PENICHE:							
3344 <i>D 2092</i>	-Peniche de Cima Range, front.	39° 21.6' N 9° 22.3' W	L.F.I.R. period 7s fl. 2s, ec. 5s	30 9	8	Balcony with lantern on red column; 23.	Reserve light range 4M.
3348 <i>D 2092.1</i>	--Rear, 60 meters 215° from front.	39° 21.8' N 9° 22.3' W	L.F.I.R. period 7s fl. 2s, ec. 5s	43 13	6	Lantern; 33.	Reserve light range 4M.
3352 <i>D 2096</i>	-E. mole, head.	39° 20.8' N 9° 22.3' W	Fl.G. period 3s fl. 1s, ec. 2s	46 14	9	White truncated tower, green bands.	
3356 <i>D 2094</i>	-W. mole, head.	39° 20.9' N 9° 22.6' W	Fl.R. period 3s fl. 1s, ec. 2s	39 12	9	White truncated tower; red bands; 26.	Siren: 1 bl. ev. 120s (bl. 25s, si. 95s).
3360 <i>D 2098</i>	Porto das Barcas.	39° 13.8' N 9° 20.4' W	Fl.R. period 6s	92 28	6	Building; 33.	Seasonal.
3364 <i>D 2100</i>	Porto Dinheiro.	39° 13.0' N 9° 20.6' W	Oc.W. period 3s	59 18	8	Iron column; 16.	Seasonal.
3368 <i>D 2102</i>	Assenta, S. of Ponta da Lamparoeira.	39° 03.4' N 9° 24.8' W	L.F.I.W. period 5s fl. 2s, ec. 3s	246 75	13	White concrete hut, conical base; 13.	
3372 <i>D 2106</i>	Ericeira.	38° 57.8' N 9° 25.0' W	Oc.R. period 3s lt. 2s, ec. 1s	121 37	6	White concrete sentry box, black square daymark; 26.	Siren: 1 bl. ev. 70s (bl. 16s, si. 54s).
3376 <i>D 2108</i>	Cabo da Roca.	38° 46.8' N 9° 29.8' W	Fl.(4)W. period 17s fl. 0.3s, ec. 2.5s fl. 0.3s, ec. 2.5s fl. 0.3s, ec. 2.5s fl. 0.3s, ec. 8.3s	541 165	26	White tower with attached buildings; 72.	
3380 <i>D 2110</i>	Cabo Raso.	38° 42.6' N 9° 29.1' W	Fl.(3)W. period 9s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 4.2s	75 23	15	Red round tower; 43.	Visible 324°-189°. Nautophone: Mo.(I) ev. 30s (bl. 5s, si. 5s, bl. 5s, si. 15s).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PORTUGAL							
LISBOA:							
3388 D 2118	-Forte Santa Marta , Barra do Norte Range, front.	38° 41.5' N 9° 25.2' W	Oc.W.R. period 6s lt. 4.5s, ec. 1.5s	82 25	W. 18 R. 14	White square tower, blue bands; 66.	R. 233°-334°, W.-098°. Horn: 1 bl. ev. 10s (bl. 3s, si. 7s).
3389 D 2114	-Guia , rear, 285° from front.	38° 41.8' N 9° 26.7' W	Iso.W.R. period 2s	190 58	W. 19 R. 16	White octagonal tower, dwelling; 92.	W. 326°-092°, R. 278°-292°.
3390 D 2119	-S. mole, head.	38° 41.6' N 9° 24.8' W	Fl.(3)R. period 4s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 1.5s	23 7	6	Metal post, red and white bands; 10.	
3390.5 D 2119.1	-N. mole, head.	38° 41.6' N 9° 24.9' W	Fl.(2)G. period 5s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 3.5s	16 5	3	Metal post, green and white bands; 16.	
3392 D 2121	-Cascais, Praia de Ribeira.	38° 41.8' N 9° 25.1' W	Oc.R. period 4s lt. 3s, ec. 1s	23 7	6	White column, red bands; 15.	Visible 251°-309°.
3396 D 2122	-Albatroz.	38° 41.9' N 9° 24.9' W	Oc.R. period 6s lt. 4s, ec. 2s	43 13	5	Lantern; 20.	
3398 D 2123	-Carcavelos.	38° 40.9' N 9° 20.8' W	Iso.W.R. period 3s	59 18	9	Yellow truncated tower; 39.	R. 048°-058°, W.-068°.
3400 D 2124	-Sao Julia da Barra, entrance, N. side.	38° 40.5' N 9° 19.5' W	Oc.R. period 5s lt. 3s, ec. 2s	128 39	14	Gray tower, red cupola; 78.	
3401 D 2126.25	-Oeiras Marina, N. pier.	38° 40.6' N 9° 19.0' W	Fl.G. period 3s fl. 1s, ec. 2s	33 10	5	White tower, green bands; 13.	
3402 D 2126.2	--S. pier.	38° 40.6' N 9° 19.0' W	Fl.R. period 3s fl. 1s, ec. 2s	33 10	5	White tower, red bands; 16.	
3404 D 2126	-Fort Bugio.	38° 39.6' N 9° 17.9' W	Fl.G. period 5s fl. 1s, ec. 4s	92 28	15	Round tower, red cupola; 46.	Horn: Mo.(B) ev. 30s.
3406 D 2126.5	-Doca de Paco de Arcos, W. pier, head.	38° 41.4' N 9° 17.6' W	Fl.R. period 5s fl. 0.5s, ec. 4.5s	33 10	4	White stone tower; 15.	
3406.2 D 2126.55	--E. pier, head.	38° 41.5' N 9° 17.6' W	Fl.G. period 5s fl. 0.5s, ec. 4.5s	33 10	4	White stone tower; 15.	
3408 D 2127	-Barra do Sul Range , front.	38° 41.9' N 9° 16.0' W	Oc.R. period 6s lt. 4s, ec. 2s	102 31	21	White tower, red bands with cupola; 69.	Visible 039°30'-054°30'. By day 4M.
3410 D 2127.15	--Mama , rear, 2.5 miles 047°06' from front.	38° 43.6' N 9° 13.6' W	Iso.W. period 6s	502 153	21	White tower, red bands with red cupola on white building.	Visible 045°30'-048°30'.
3413 D 2127.3	-VTS Alges Pier, head.	38° 41.6' N 9° 14.0' W	Fl.(2)R. period 5s fl. 1s, ec. 1s fl. 1s, ec. 2s	23 7	7	White post, red bands; 7.	
3413.3 D 2127.31	-MR Pier, head.	38° 41.7' N 9° 14.0' W	Fl.G. period 3s fl. 0.3s, ec. 2.7s	23 7	4	White post, green bands; 7.	
3414 D 2127.15	-Mama Sul.	38° 43.6' N 9° 13.6' W	Oc.R. period 6s lt. 4s, ec. 2s	505 154	21	Platform on tower.	Visible 045°30'-048°30'.
3416 D 2127.4	-Doca de Pedroucos, W. mole, head.	38° 41.5' N 9° 13.5' W	Fl.R. period 6s fl. 0.5s, ec. 5.5s	43 13	2	Post; 23.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PORTUGAL							
3420 <i>D 2127.6</i>	--E. mole, head.	38° 41.5' N 9° 13.4' W	F.G.	43 13	4	Post; 23.	
3424 <i>D 2129</i>	-Doca do Bom Sucesso, entrance, W. side.	38° 41.6' N 9° 12.7' W	F.R.	36 11		Metal tower; 23.	5 groups of towers, each showing a F.R. light, are located at Alges de Cima.
3428 <i>D 2129.2</i>	--E. side.	38° 41.5' N 9° 12.6' W	F.G.	36 11		Metal tower; 23.	
3432 <i>D 2128</i>	-Portinho da Costa, NATO fuel pier, E. head.	38° 40.5' N 9° 13.3' W	Fl.(3)G. period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 10.5s	13 4	2	Mast.	
3436 <i>D 2128.5</i>	---W. head.	38° 40.5' N 9° 13.4' W	Fl.(2)G. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	13 4	2	Mast.	
3438 <i>D 2127.2</i>	-EPAC pier, W. side.	38° 40.6' N 9° 14.3' W	Q.W.	26 8	4	Post; 7.	
3438.5 <i>D 2127.25</i>	--E. side.	38° 40.6' N 9° 14.1' W	Q.W.	26 8	4	Post; 7.	
3439 <i>D 2127.18</i>	-NATO fuel pier, dolphin, W. side.	38° 40.3' N 9° 15.2' W	Fl.G. period 4s fl. 1s, ec. 3s	33 10	3	Green post; 13.	
3439.2 <i>D 2127.181</i>	--T-head, W. side.	38° 40.3' N 9° 15.1' W	Fl.(3)G. period 20s fl. 0.5s, ec. 3s fl. 0.5s, ec. 3s fl. 0.5s, ec. 12.5s	26 8	3	Green post; 13.	
3439.4 <i>D 2127.182</i>	---E. side.	38° 40.4' N 9° 15.0' W	Fl.(4)G. 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	26 8	3	Green post; 13.	
3439.6 <i>D 2127.183</i>	--Dolphin, E. side.	38° 40.4' N 9° 14.9' W	Fl.G. period 5s fl. 1.5s, ec. 3.5s	33 10	3	Green post; 13.	
3440 <i>D 2130</i>	-Doca de Belem, entrance, W. side.	38° 41.6' N 9° 12.2' W	F.R.	36 11		Post; 23.	
3444 <i>D 2130.2</i>	--E. side.	38° 41.6' N 9° 12.1' W	F.G.	36 11		Post; 23.	
3448 <i>D 2130.4</i>	-Bridge, N. tower.	38° 41.6' N 9° 10.7' W	2 Fl.(3)G. period 9s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 5.5s	26 8	6	On bridge tower; 7.	Structure on each side of bridge. Visible 180°-000°. Obstruction light Fl.R. 10s marks top of tower. Horn: 2 bl. ev. 25s (bl. 2.5s, si. 5s, bl. 2.5s, si. 15s).
			2 Fl.(3)R. period 9s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 5.5s	26 8	6		
3452 <i>D 2130.6</i>	--S. tower.	38° 41.1' N 9° 10.6' W	2 Fl.(3)G. period 9s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 5.5s	26 8	6	On bridge tower; 7.	Structure on each side of bridge. Visible 180°-000°. Obstruction light Iso.R. 2s marks top of tower. Horn: 1 bl. ev. 25s (bl. 5s, si. 20s).
			2 Fl.(3)R. period 9s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 5.5s	26 8	6		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PORTUGAL							
3453 <i>D 2132</i>	-Doca da Marinha Entrance, W. side.	38° 42.5' N 9° 07.8' W	F.R.	36 11	2	Post; 23.	
3453.5 <i>D 2132.2</i>	--E. side.	38° 42.5' N 9° 07.7' W	F.G.	36 11	2	Post; 23.	
3454 <i>D 2132.4</i>	-Doco do Terreiro do Trigo Entrance, SW. side.	38° 42.7' N 9° 07.5' W	F.R.	36 11	2	Metal tower; 23.	
3454.5 <i>D 2132.6</i>	--NE. side.	38° 42.7' N 9° 07.5' W	F.G.	30 9	2	Metal tower; 23.	
3462 <i>D 2133.4</i>	-Lisnave.	38° 41.4' N 9° 08.5' W	Fl.G. period 2s fl. 0.5s, ec. 1.5s	13 4	3	White column, green bands.	Rio Tejo marked by buoys and beacons.
3463 <i>D 2134.46</i>	Olivais, pier, elbow.	38° 45.7' N 9° 05.4' W	Fl.(2)R. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	20 6	3	White post, red bands; 10.	Fl.R. and Fl.G. lights mark entrance 420 meters S.
-Canal do Alfeite:							
3464 <i>D 2134.2</i>	--Entrance Range, front.	38° 39.9' N 9° 08.8' W	Oc.G. period 3s lt. 2s, ec. 1s	89 27	7	Tower, red bands; 13.	Daytime range 2.5M.
3468 <i>D 2134.21</i>	--Rear, 200 meters 223°24' from front.	38° 39.9' N 9° 09.0' W	Oc.G. period 6s lt. 4s, ec. 2s	135 41	7	White tower, red bands; 13.	Daytime range 2.5M.
3472	--Buoy 2B.	38° 40.8' N 9° 08.2' W	Q.R.			PORT (A) R, can, topmark.	
--RACON			B(- • • •)				
3480 <i>D 2134.3</i>	-Arsenal do Alfeite, E. mole.	38° 40.2' N 9° 08.4' W	L.Fl.R. period 5s fl. 2s, ec. 3s	26 8	8	Round column, white and red bands; 16.	
3481 <i>D 2134.35</i>	--W. mole.	38° 40.5' N 9° 08.7' W	L.Fl.G. period 5s fl. 2s, ec. 3s	23 7	7	Tower, green and white bands; 10.	
3488 <i>D 2135.8</i>	-Rio Coima, bridge, S. tower.	38° 39.0' N 9° 05.0' W	Fl.G. period 5s fl. 0.5s, ec. 4.5s	20 6	3	Green post; 10.	
-Canal do Seixal:							
3490	--Buoy 13B-1S.	38° 39.3' N 9° 05.8' W	Fl.G. period 3s			STARBOARD (A) G, conical, topmark.	
--RACON			Q(- - • -)				
3492 <i>D 2136</i>	--Pilar.	38° 38.8' N 9° 05.9' W	Fl.R. period 3s fl. 0.5s, ec. 2.5s	20 6	6	Red and white column; 7.	
3496 <i>D 2136.1</i>	--Seca.	38° 38.8' N 9° 05.9' W	Fl.G. period 3s fl. 0.5s, ec. 2.5s	26 8	5	Green post; 16.	
-Canal do Montijo:							
3504 <i>D 2136.25</i>	--Central Electric, jetty, head.	38° 40.8' N 9° 03.4' W	L.Fl.G. period 10.5s fl. 4s, ec. 6.5s		3	Green lantern on tower.	
3505 <i>D 2136.5</i>	--Outfall, BA6.	38° 42.3' N 9° 03.1' W	Fl.Y. period 6s fl. 1s, ec. 5s	13 4	3	SPECIAL Y, beacon, topmark.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PORTUGAL							
SESIMBRA:							
3508 D 2139	-Cabo Espichel.	38° 24.9' N 9° 13.0' W	Fl.W. period 4s fl. 0.3s, ec. 3.7s	551 168	26	White hexagonal masonry tower, two dwellings attached; 102.	Aeromarine light. Nauphone: (460 meters SW.) 1 bl. ev. 31s (bl. 8s, sl. 23s).
3512 D 2140	-Forte do Cavallo, bay, W. side.	38° 26.0' N 9° 06.9' W	Oc.W. period 5s lt. 3s, ec. 2s	115 35	14	Red round tower; 23.	Reserve light F.W. 7M.
3516 D 2144	-New mole, head.	38° 26.4' N 9° 06.4' W	Fl.R. period 3s fl. 1s, ec. 2s		8	Tower, red and white bands; 23.	
3518 D 2144.2	-E2N.	38° 26.6' N 9° 06.3' W	Oc.Y. period 6s lt. 5s, ec. 1s		3	SPECIAL Y, beacon, topmark; 10.	
3520 D 2142	-Entrance Range, front.	38° 26.4' N 9° 05.9' W	L.Fl.R. period 5s fl. 2s, ec. 3s	33 10	7	W. turret of fort; 33.	
3524 D 2142.1	--Rear, 003°30' from front.	38° 26.5' N 9° 06.0' W	L.Fl.R. period 5s fl. 2s, ec. 3s	72 22	6	NW. corner of fort; 56.	
3526 D 2145	-Cables Range, W., front.	38° 26.4' N 9° 05.5' W	Fl.R. period 2.5s fl. 0.3s, ec. 2.2s	26 8	2	White triangular daymark.	Marks W. limit of submarine cable area.
3526.1 D 2145.1	--Center, in line 030°.	38° 26.5' N 9° 05.4' W	Fl.R. period 3s fl. 0.3s, ec. 2.7s	489 149	2	White triangular daymark.	
3526.2 D 2145.2	--Rear, 030° from front.	38° 26.6' N 9° 05.4' W	Fl.R. period 3.5s fl. 0.4s, ec. 3.1s	640 195	2	White triangular daymark.	
3526.3 D 2145.3	-Cables Central Range, front.	38° 26.3' N 9° 05.1' W	Fl.W. period 2.5s fl. 0.3s, ec. 2.2s	443 135	6	Beacon, orange triangular daymark.	Marks NW. limit of submarine cable area.
3526.4 D 2145.31	--Rear, 057° from front.	38° 26.5' N 9° 04.7' W	Fl.W. period 3.5s fl. 0.4s, ec. 3.1s	886 270	6	Beacon, orange triangular daymark.	
3527 D 2146	-Serra de Achada Range, cables, front.	38° 26.1' N 9° 04.0' W	Fl.W. period 2.5s fl. 0.3s, ec. 2.2s	482 147	2	White triangular daymark.	Marks E. limit of submarine cable area.
3527.1 D 2146.1	--Center, in line 000°.	38° 26.2' N 9° 04.0' W	Fl.W. period 3s fl. 0.3s, ec. 2.7s	853 260	2	White triangular daymark.	
3527.2 D 2146.2	--Rear, 000° from front.	38° 26.2' N 9° 04.0' W	Fl.W. period 3.5s fl. 0.4s, ec. 3.1s	1027 313	2	White triangular daymark.	
SETUBAL:							
3532 D 2150.22	-Beacon No. 2.	38° 27.1' N 8° 58.4' W	Fl.(2)R. period 10s fl. 1s, ec. 1s fl. 1s, ec. 7s	46 14	9	Red round column, white cupola; 16.	
-RACON			B(-•••) period 60s		15		
3540 D 2150.26	-Beacon No. 4.	38° 27.8' N 8° 57.6' W	Fl.R. period 4s fl. 0.5s, ec. 3.5s	46 14	4	Red and white checkered column, red daymark; 16.	Radar reflector.
3544 D 2150.28	-Beacon No. 5.	38° 29.1' N 8° 55.3' W	Fl.G. period 4s fl. 0.5s, ec. 3.5s	46 14	4	Black column, green daymark.	Radar reflector.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PORTUGAL							
3548 <i>D 2152</i>	-Canal da Sapie Range, front, Algarve Exportador.	38° 31.1' N 8° 53.6' W	Oc.R. period 4s lt. 3s, ec. 1s	49 15	15	Red lantern.	
3552 <i>D 2152.1</i>	--Anunciada, rear, 550 meters 296°30' from front.	38° 31.3' N 8° 54.1' W	Iso.R. period 4s	75 23	15	Red lantern.	
3556 <i>D 2150</i>	-Fote d'Outao, Rio Sado, W. side entrance.	38° 29.2' N 8° 56.0' W	Oc.R. period 6s lt. 4s, ec. 2s	112 34	12	White hexagonal tower; 36.	
3560 <i>D 2150.4</i>	-Albarquel.	38° 30.6' N 8° 54.7' W	Iso.R. period 2s	52 16	6	Red lantern on S. corner of fort.	
3564 <i>D 2151</i>	-Doca Pesca Range, E. pier, front.	38° 31.1' N 8° 54.0' W	Iso.Y. period 6s	46 14	22	Tower, red and white bands, white lantern; 28.	
3568 <i>D 2151.1</i>	--Azeda, rear, 2.8 km. 039°42' from front.	38° 32.3' N 8° 52.7' W	Iso.Y. period 6s	200 61	22	Round tower, red and white bands, red lantern; 102.	Visible 038°18'-041°18'.
3569 <i>D 2157.4</i>	-S. dolphin.	38° 28.3' N 8° 48.5' W	Q.(5)W. period 8s	26 8	6	Post; 10.	Q.(3)W. 5s 8m 6M light marks dolphin close N.
3569.5 <i>D 2157.3</i>	--SE.	38° 28.2' N 8° 47.8' W	Q.(3)W. period 5s	26 8	6	Post; 10.	Q.(3)W. 5s 8m 6M and Q.(5)W. 8s 8m 6M lights mark 3 dolphins close E.
3570 <i>D 2158</i>	Pinheiro da Cruz.	38° 15.5' N 8° 46.3' W	Fl.W. period 3s fl. 1s, ec. 2s	220 67	9	Round column, red and white bands.	
SINES:							
3572 <i>D 2160</i>	-Cabo de Sines.	37° 57.6' N 8° 52.8' W	Fl.(2)W. period 15s fl. 0.2s, ec. 3.6s fl. 0.2s, ec. 11s	184 56	26	White round tower, dwelling; 72.	Reserve light range 21M. Obscured 001°-003° and 004°-007° within 17M. 4 Iso.R. 3M lights on dolphins SW.
3582 <i>D 2160.36</i>	--Mole.	37° 57.1' N 8° 52.1' W	Fl.R. period 6s fl. 1.8s, ec. 4.2s		6	Concrete structure, red and white bands; 13.	
3583 <i>D 2160.16</i>	--W. mole.	37° 56.7' N 8° 53.2' W	Fl.W. period 3s fl. 1s, ec. 2s	69 21	12	Truncated tower, red and white bands; 26.	
3584 <i>D 2160.4</i>	-Posto 1.	37° 56.4' N 8° 53.2' W	Dir.Iso.W.R.G. period 2s	52 16	W. 8 R. 6 G. 6	Metal pyramidal tower.	R. 257°-266°, W.-270°, G.-286°.
3587 <i>D 2160.5</i>	Ponta da Gaivota.	37° 51.0' N 8° 47.7' W	Fl.W. period 6s fl. 1.5s, ec. 4.5s	66 20	13	Red column, white bands; 16.	
3588 <i>D 2160.6</i>	Porto Covo.	37° 50.9' N 9° 47.3' W	Fl.R. period 4s fl. 1s, ec. 3s	105 32	5	Round column, red and white stripes; 13.	
3592 <i>D 2161</i>	Portinho do Canal Range, front.	37° 44.1' N 8° 48.0' W	Fl.R. period 3s fl. 1s, ec. 2s	16 5	7	Column, red and white stripes.	
3596 <i>D 2161.1</i>	-Rear, 075° from front.	37° 44.2' N 8° 47.9' W	Oc.R. period 3s lt. 2s, ec. 1s	20 6	7	Column, red and white stripes.	
3600 <i>D 2162</i>	Milfontes, Rio Mira, mouth.	37° 43.1' N 8° 47.3' W	Fl.W. period 3s fl. 1s, ec. 2s	75 23	10	Tower on dwelling; 16.	
3604 <i>D 2164</i>	Cabo Sardo.	37° 35.8' N 8° 48.9' W	Fl.(3)W. period 15s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 8.8s	223 68	23	White square masonry tower on dwellings; 55.	Reserve light range 21M.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PORTUGAL							
3608 D 2165	Porto das Barcas Entrance Range, front.	37° 33.3' N 9° 47.5' W	FI.G. period 3s fl. 1s, ec. 2s	131 40	7	Column, red and white bands; 26.	
3612 D 2165.1	-Rear, about 157 meters E. from front.	37° 33.0' N 8° 47.3' W	Oc.G. period 3s lt. 2s, ec. 1s	174 53	7	Column, red and white bands; 46.	
3616 D 2168	Cabo De Sao Vicente.	37° 01.3' N 8° 59.7' W	FI.W. period 5s fl. 0.1s, ec. 4.9s	282 86	32	White round masonry tower; 92.	Aeromarine light. Nauphone: 2 bl. ev. 30s (bl. 5s, si. 5s, bl. 5s, si. 15s).
3620 D 2170	Ponta de Sagres.	36° 59.6' N 8° 56.9' W	Iso.R. period 2s	174 53	11	White square masonry tower on dwelling; 43.	
3622 D 2171	Baleeira, on mole.	37° 00.6' N 8° 55.4' W	FI.W.R. period 4s fl. 1s, ec. 3s	43 13	W. 14 R. 11	White rectangular tower, red bands; 20.	R. 355°-254°, W.-355°.
3623 D 2172.3	Posto.	37° 04.2' N 8° 46.4' W	L.FI.W. period 5s fl. 2s, ec. 3s	52 16	11	Red lantern.	
BAIA DE LAGOS:							
3624 D 2174	-Ponte da Piedade.	37° 04.7' N 8° 40.1' W	FI.W. period 7s fl. 1s, ec. 6s	167 51	20	Yellow square masonry tower on dwelling; 16.	
3628 D 2175	-Lagos, W. mole, head.	37° 05.8' N 8° 39.9' W	FI.(2)R. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s		5	White rectangular tower, red bands; 23.	
3632 D 2176	--E. mole, head.	37° 05.8' N 8° 39.9' W	FI.(2)G. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s		5	White rectangular tower, green bands; 20.	
RIBEIRA DE ARADE (PORTIMAO):							
3644 D 2178	-Ponta do Altar , entrance, E. side.	37° 06.3' N 8° 31.1' W	L.FI.W. period 5s fl. 2s, ec. 3s	105 32	16	White tower and dwelling; 33.	Visible 290°-170°. Reserve light F.R. 6M.
3648 D 2179	-W. mole, extremity.	37° 06.4' N 8° 31.7' W	FI.R. period 5s fl. 1s, ec. 4s	33 10	7	White truncated tower, red bands; 23.	
3652 D 2179.2	-E. mole, extremity.	37° 06.4' N 8° 31.5' W	FI.G. period 5s fl. 1s, ec. 4s	33 10	7	White truncated tower, two green bands; 23.	
3656 D 2181	-Ferragudo, entrance Range, front.	37° 07.4' N 8° 31.3' W	Iso.R. period 6s	62 19	6	White column, red bands; 13.	
3660 D 2181.1	--Rear, 54 meters 019°06' from front.	37° 07.4' N 8° 31.3' W	Iso.R. period 6s	102 31	6	White column, red bands; 16.	
3684 D 2192	Alfanzina.	37° 05.1' N 8° 26.5' W	FI.(2)W. period 14s fl. 0.2s, ec. 3.3s fl. 0.2s, ec. 10.3s	207 63	29	White square masonry tower, dwelling; 75.	
3688 D 2194	Armacao de Pera, fort, S. corner.	37° 06.0' N 8° 21.6' W	Oc.R. period 5s lt. 4s, ec. 1s	82 25	6	Building.	
3692 D 2196	Albufeira, near Ponta da Baleeira.	37° 04.7' N 8° 15.7' W	Oc.W. period 6s lt. 4s, ec. 2s	102 31	11	White column, red bands; 20.	
3700 D 2197	Olhos de Agua.	37° 05.3' N 8° 11.3' W	L.FI.W. period 5s fl. 2s, ec. 3s	98 30	7	Column, red and white bands.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PORTUGAL							
3708 D 2197.3	Marina de Vilamoura, W. mole.	37° 04.1' N 8° 07.4' W	Fl.R. period 4s fl. 1s, ec. 3s	46 14	5	White tower, red bands; 23.	
3712 D 2197.4	-E. mole.	37° 04.1' N 8° 07.3' W	Fl.G. period 4s fl. 1s, ec. 3s	46 14	5	Truncated tower, green and white bands.	
3716 D 2197.2	Vilamoura.	37° 04.4' N 8° 07.3' W	Fl.W. period 5s fl. 0.2s, ec. 4.8s	59 18	19	Metal tower; 52.	
3724 D 2206	Cabo de Santa Maria.	36° 58.4' N 7° 51.8' W	Fl.(4)W. period 17s fl. 0.2s, ec. 2.6s fl. 0.2s, ec. 2.6s fl. 0.2s, ec. 2.6s fl. 0.2s, ec. 8.4s	164 50	25	White round tower, dwelling attached; 151.	Reserve light range 19M. Aeromarine light.
CANAL DE OLHAO:							
-Barra Faro-Olhao:							
3728 D 2208	--W. mole, head.	36° 57.7' N 7° 52.2' W	Fl.R. period 4s fl. 1s, ec. 3s	32 10	6	White truncated tower; 16.	
3732 D 2209	--E. mole, head.	36° 57.7' N 7° 52.1' W	Fl.G. period 4s fl. 1s, ec. 3s	32 10	6	White round tower, green bands.	
3736 D 2206.1	--Barra Nova, E. mole.	36° 58.1' N 7° 51.9' W	Oc.W. period 4s lt. 3s, ec. 1s	29 9	6	Round concrete column, red and white bands.	In line with Cabo de Santa Maria (021°) gives 2nd range.
-Ilha da Barreta:							
3740 D 2221	--Golada Range, front.	36° 58.1' N 7° 52.2' W	L.Fl.R. period 5s fl. 2s, ec. 3s	23 7	6	White round tower, red bands; 20.	
3744 D 2221.1	---Rear, 447 meters 219°30' from front.	36° 57.9' N 7° 52.7' W	Oc.R. period 5s lt. 4s, ec. 1s	30 9	7	White round tower, red bands; 23.	
3748 D 2211	-Ilha da Culatra, breakwater.	36° 58.4' N 7° 52.0' W	Oc.G. period 5s lt. 4s, ec. 1s	23 7	3	Metal column on JAPSA building; 20.	
3752 D 2212	-Mar Santo.	36° 58.4' N 7° 52.0' W	Oc.R. period 5s lt. 4s, ec. 1s	33 10	5	Round tower, white and red bands.	In line 098° with Cabu de Santa Moria light.
3756 D 2222	-Boneco.	36° 58.6' N 7° 51.9' W	Fl.G. period 3s fl. 0.3s, ec. 2.7s	26 8	6	Green metal column; 16.	
3760 D 2218	--Ponte de Carvao, head.	36° 59.2' N 7° 51.2' W	Fl.W. period 5.5s fl. 0.5s, ec. 5s	23 7	6	Green column; 13.	
3761 D 2219	-Ponte-Cais.	36° 59.7' N 7° 50.6' W	Oc.G. period 4s lt. 3s, ec. 1s	23 7	5	Green metal column.	
3764 D 2225.3	-W. mole.	37° 01.3' N 7° 50.0' W	Fl.R. period 6s fl. 1s, ec. 5s		6	Post; 16.	
3772 D 2230.1	-Igreja.	37° 03.3' N 7° 44.8' W	Oc.R. period 3s lt. 2.5s, ec. 0.5s	102 31	5	Platform of bell tower; 56.	
3778 D 2232.8	Barra.	37° 03.5' N 7° 43.0' W	Fl.W. period 8s fl. 1s, ec. 7s	23 7	7	Column, red and white bands; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
PORTUGAL							
TAVIRA:							
3780 D 2234	-Armacao Range, front.	37° 07.1' N 7° 37.3' W	Fl.R. period 3s fl. 1s, ec. 2s	33 10	4	White post, red bands; 16.	
3784 D 2234.1	--Rear, 132 meters 325°54' from front.	37° 07.2' N 7° 37.3' W	IsO.R. period 6s	36 11	5	White post, red bands; 16.	
3796 D 2235	-W. mole, head.	37° 06.8' N 7° 36.8' W	Fl.R. period 2.5s fl. 0.5s, ec. 2s	26 8	7	Truncated column, red and white bands; 13.	
3797 D 2235.2	-E. mole, head.	37° 06.9' N 7° 36.9' W	Fl.G. period 2.5s fl. 0.5s, ec. 2s	20 6	6	Truncated column, green and white bands; 13.	
RIO GUADIANA:							
3800 D 2249	-Mole, W. head.	37° 09.8' N 7° 24.0' W	Fl.R. period 3s fl. 0.5s, ec. 2.5s	26 8	4	Metal column, red and white stripes; 26.	
3808	-Buoy 1.	37° 09.1' N 7° 23.4' W	Fl.(3)G. period 6s			STARBOARD (A) G, conical.	
3816 D 2246	-Vila Real de Santo Antonio.	37° 11.2' N 7° 24.9' W	Fl.W. period 6.5s fl. 0.2s, ec. 6.3s	171 52	26	White round tower, narrow black bands, two-story dwelling; 151.	Reserve light range 22M.
SPAIN-SOUTHWEST COAST							
RIO GUADIANA:							
3820 D 2305	-Baluarte.	37° 12.8' N 7° 24.6' W	Fl.G. period 3s fl. 0.5s, ec. 2.5s	10 3	3	Black and green metal framework tower, concrete base; 13.	
3828 D 2312	-Rompido de Cartaya.	37° 12.9' N 7° 07.6' W	Fl.(2)W. period 10s fl. 0.5s, ec. 2.8s fl. 0.5s, ec. 6.2s	140 43	24	Round tower, white and black bands; 96.	
3836 D 2319	Huelva Terminal Buoy.	37° 04.8' N 6° 55.6' W	Fl.(4)Y. period 20s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 10.5s			SPECIAL Y, superbuoy, topmark.	Siren: Mo.(E) ev. 30s.
RIO ODIEL (HUELVA):							
3840	-Approach buoy.	37° 05.6' N 6° 49.0' W	Q.(9)W. period 15s			W. CARDINAL YBY, topmark.	
3844 D 2320	-Punta del Picacho.	37° 08.2' N 6° 49.5' W	Fl.(2+4)W. period 30s fl. 0.2s, ec. 2.9s fl. 0.2s, ec. 8.6s fl. 0.2s, ec. 2.9s fl. 0.2s, ec. 2.9s fl. 0.2s, ec. 2.9s fl. 0.2s, ec. 8.6s	171 52	25	White tower on red house; 82.	Reserve light range 10M. F.R. lights on 3 radio masts 4.8M ESE.
3845 D 2324.05	-Padre Santo, 339°11'.	37° 08.6' N 6° 50.7' W	Dir.W.R.G.	200 61	8	White tower; 49.	Fl.G. 337°30'-338°, F.G.- 338°36', Oc.G.-339°06', F.W.-339°18', Oc.R.- 339°48', F.R.-340°24', Fl.R.-340°54'.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-SOUTHWEST COAST							
3846 <i>D 2328.2</i>	-Capesa, SW.	37° 09.6' N 6° 53.7' W	Fl.(2)G. period 10s fl. 1s, ec. 1s fl. 1s, ec. 7s	16 5	3	Green post; 7.	
3846.1 <i>D 2328.3</i>	--NW.	37° 09.6' N 6° 53.8' W	Fl.(2)G. period 10s fl. 1s, ec. 1s fl. 1s, ec. 7s	16 5	3	Green post; 7.	
3849 <i>D 2330</i>	-Muelle Juan Gonzalo, S. end.	37° 10.8' N 6° 55.5' W	Fl.(4)G. period 20s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 10.5s	20 6	3	Green post, 10.	
3861 <i>D 2321</i>	-Breakwater, S. head.	37° 06.5' N 6° 49.9' W	Fl.(3+1)W.R. period 20s fl. 0.8s, ec. 2.2s fl. 0.8s, ec. 2.2s fl. 0.8s, ec. 6.2s fl. 0.8s, ec. 6.2s	102 31	W. 12 R. 9	White round tower, red bands; 89.	R. 100°-125°, obsc.-165°, W- 100°.
	-RACON		K(- • -) period 72s				
3862 <i>D 2315</i>	-Punta Umbria, breakwater, head.	37° 09.8' N 6° 56.8' W	V.Q.(6)+L.FI.W. period 10s	33 10	5	S. CARDINAL YB, tower; 13.	
3863 <i>D 2345</i>	-La Higuera.	37° 00.6' N 6° 34.1' W	Fl.(3)W. period 20s fl. 0.5s, ec. 2.8s fl. 0.5s, ec. 2.8s fl. 0.5s, ec. 12.9s	154 47	20	White pyramidal structure, red band; 79.	
RIO GUADALQUIVIR (SANLUCAR DE BARRAMEDA):							
3864 <i>D 2348.5</i>	-New Canal Range, front.	36° 48.0' N 6° 20.0' W	Q.W.	95 29	10	Red and white checkered structure; 72.	
3868 <i>D 2348.51</i>	--Rear, 108 meters 068°56' from front.	36° 48.1' N 6° 19.6' W	Iso.W. period 6s	203 62	5	Metal tower, yellow square daymark; 98.	
3872 <i>D 2349</i>	-Bonanza 1, breakwater, S. head.	36° 48.1' N 6° 20.3' W	Fl.(2+1)G. period 14.5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s fl. 0.5s, ec. 9s	23 7	5	Green column, red band; 6.	
3876 <i>D 2349.1</i>	--Breakwater 3, N. head.	36° 48.4' N 6° 20.3' W	Fl.G. period 5s fl. 0.5s, ec. 4.5s	23 7	5	Green column; 6.	
Lights in Rio Guadalquivir not in List of Lights.							
3878	-Buoy 1.	36° 45.8' N 6° 27.0' W	Fl.W. period 10s			SAFE WATER RW pillar, ball topmark.	
	-RACON		M(- -)		10		3 & 10 cm.
3880 <i>D 2351</i>	-Chipiona.	36° 44.3' N 6° 26.4' W	Fl.W. period 10s fl. 0.3s, ec. 9.7s	226 69	25	Round stone tower and building; 205.	
3882 <i>D 2350.4</i>	-Bajo Salmedina.	36° 44.3' N 6° 28.6' W	Q.(9)W. period 15s	30 9	5	W. CARDINAL YBY, round tower, topmark.	
3884 <i>D 2352</i>	--Breakwater, head.	36° 44.9' N 6° 25.8' W	Fl.(2)G. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	20 6	5	Green round tower; 16.	Fl.(3)G. 9s 4m 1M and Fl.(4)R. 11s 4m 3M lights mark entrance to marina.
ROTA:							
3900 <i>D 2355</i>	-Rota AVIATION LIGHT.	36° 38.2' N 6° 20.8' W	Al.FI.W.G. period 9s	262 80	17	Red and white checkered water tank; 162.	Tanks, control tower, radio masts marked by F.R. obstruction lights.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-SOUTHWEST COAST							
3908 <i>D 2355.2</i>	-Rota Faro.	36° 37.1' N 6° 21.4' W	Oc.W. period 4s	112 34	13	White round tower, red band; 92.	DGPS Station 1.3 miles WNW.
-Rota Fishing Harbor:							
3912 <i>D 2355.4</i>	--Mole, head.	36° 36.9' N 6° 21.0' W	Fl.(3)R. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	33 10	3	Red mast on red hut; 10.	
3914 <i>D 2355.5</i>	---Contradique.	36° 36.9' N 6° 21.1' W	Q.(6)G. period 12s		3	Green post.	
-Naval Base:							
3920 <i>D 2359</i>	--Entrance Range, front.	36° 37.6' N 6° 19.7' W	Q.W.	49 15	9	Orange steel frame tower, black diamond daymark, white background; 30.	Visible 335°30'-355°30'.
3924 <i>D 2359.1</i>	---Rear, about 285 meters 345°30' from front.	36° 37.8' N 6° 19.7' W	Oc.W. period 3s	89 27	11	Orange frame tower, black ball daymark; 50.	Visible 335°30'-355°30'.
3928 <i>D 2357</i>	--SW. breakwater.	36° 36.7' N 6° 19.5' W	Oc.(2)R. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	56 17	4	Metal column; 13.	
3932 <i>D 2358</i>	--SE. breakwater.	36° 36.9' N 6° 19.3' W	Q.(3)G. period 7s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 4.5s	45 14	6	Metal column; 13.	
CADIZ:							
3940 <i>D 2362</i>	-Castillo de San Sebastian.	36° 31.7' N 6° 19.0' W	Fl.(2)W. period 10s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 7.2s	128 39	25	Metal tower; 121.	Obscured over harbor by buildings. Unintensified 085°-121°.
3950 <i>D 2380</i>	-Range, front.	36° 33.0' N 6° 15.0' W	Q.G.	33 10	7	White and red tower on concrete post; 20.	
3950.1 <i>D 2380.1</i>	--Rear, 379 meters 102° from front.	36° 32.9' N 6° 14.7' W	Oc.G. period 3s lt. 2s, ec. 1s	69 21	7	White cylindrical tower, red square daymark with white bands, on concrete post; 52.	
3958 <i>D 2367.2</i>	-Mole levante, head.	36° 32.7' N 6° 16.8' W	Fl.(4)G. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 5s	39 12	3	STARBOARD (A) G, beacon.	
3960 <i>D 2367</i>	-Basin Malecon de San Felipe, head.	36° 32.6' N 6° 16.7' W	Fl.G. period 3s fl. 0.3s, ec. 2.7s	36 11	5	Green tower; 13.	
3968 <i>D 2368</i>	--Malecon de Levante, head.	36° 32.5' N 6° 16.5' W	Fl.R. period 2s fl. 0.3s, ec. 1.7s	39 12	5	Red tower; 16.	
-Malecon de San Felipe:							
3972 <i>D 2375.4</i>	---Gas-freeing tanker station, Dolphin No. 1.	36° 32.2' N 6° 16.2' W	Fl.G. period 5s fl. 0.5s, ec. 4.5s	16 5	3	Green post on dolphin; 7.	F.R. (occasional) on same structure.
3977 <i>D 2371.3</i>	--Muelle Reina Sofia.	36° 32.4' N 6° 17.1' W	Oc.G. period 2s lt. 1.5s, ec. 0.5s	20 6	2	Green post; 7.	
3980 <i>D 2373</i>	--Muelle Ciudad.	36° 32.0' N 6° 17.4' W	Oc.W. period 5s lt. 3s, ec. 2s	92 28	3	Tower, red triangular daymark; 82.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-SOUTHWEST COAST							
3984 D 2372	--Muelle No. 2, N. corner.	36° 32.2' N 6° 17.0' W	Oc.R. period 3s lt. 2.5s, ec. 0.5s	20 6	2	White tower, red lantern; 13.	
3984.2 D 2372.1	---Tacon Ro Ro, NE.	36° 32.0' N 6° 17.2' W	Fl.(4)R. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 5s	23 7	1	Red structure; 7.	
3984.4 D 2372.15	----SW.	36° 32.0' N 6° 17.2' W	Fl.(4)R. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 5s	23 7	1	Red structure; 7.	
3988 D 2373.4	--Muelle No. 5.	36° 31.9' N 6° 16.1' W	Fl.(2)G. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s		3	Green.	
3992 D 2374	--Puerto Pesquero Muelle de Poniente, head.	36° 32.0' N 6° 16.9' W	Fl.G. period 6s fl. 1s, ec. 5s	19 6	1	Green tower; 13.	
3996 D 2375	---Muelle de Levante, head.	36° 32.0' N 6° 16.9' W	Fl.(2)R. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	19 6	1	Red tower; 13.	
3998 D 2375.3	-Cabezuela, mole, head.	36° 31.8' N 6° 15.4' W	Q.(2)R. period 8s	29 9	2	Red pyramidal tower; 10.	
3999 D 2375.35	--N. wharf corner.	36° 31.5' N 6° 15.5' W	Fl.(2+1)R. period 15s fl. 1s, ec. 2s fl. 1s, ec. 4s fl. 1s, ec. 6s	23 7	1	Red tower, green stripe.	
4000 D 2375.36	--S. wharf corner.	36° 31.2' N 6° 15.3' W	Fl.(4)R. period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s		1	Red beacon.	
4001 D 2375.37	--RoRo terminal.	36° 31.1' N 6° 15.0' W	Fl.R. period 5s fl. 0.5s, ec. 4.5s	23 7	1	Red post; 10.	
4002 D 2375.5	-Bajo de la Palma.	36° 31.0' N 6° 15.8' W	Fl.(2)W. period 10s			Dolphin.	
4008 D 2376	-Base de Puntales, outer mole, head.	36° 30.5' N 6° 15.5' W	Fl.(4)G. period 10s	23 7	4	Green post; 10.	
	-Zona Franca:						
4012 D 2377	--Entrance Range, front.	36° 30.2' N 6° 15.7' W	Iso.W. period 2s	39 12	3	Wooden post painted aluminum, black diamond daymark; 30.	Visible 180°-240°.
4016 D 2377.1	---Rear, 80 meters 210°30' from front.	36° 30.2' N 6° 15.7' W	Oc.W. period 4s lt. 3s, ec. 1s	49 15	3	Wooden post, painted aluminum, black diamond daymark; 39.	Visible 180°-240°.
4020 D 2377.4	--Muelle de Poniente, on NE. corner.	36° 30.4' N 6° 15.6' W	Fl.G. period 2s fl. 0.3s, ec. 1.7s	16 5	2	Green post; 7.	
4024 D 2378	--Muelle de Ribera.	36° 30.2' N 6° 15.6' W	Fl.R. period 3s fl. 0.3s, ec. 2.7s	16 5	3	Red post; 10.	
4032 D 2381	-La Cllica, outer berth.	36° 30.0' N 6° 11.4' W	Fl.(3)G. period 9s fl. 0.3s, ec. 1.7s fl. 0.3s, ec. 1.7s fl. 0.3s, ec. 4.7s		2	White tower, green top; 10.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-SOUTHWEST COAST							
4036 <i>D 2381.2</i>	--Inner berth.	36° 29.9' N 6° 11.3' W	Fl.(4)G. period 10s		2	White tower, green top; 10.	
4037 <i>D 2382</i>	-Puerto Deportivo Sherry, S. breakwater, head.	36° 34.7' N 6° 15.2' W	Oc.R. period 4s lt. 3s, ec. 1s		5	White truncated conical tower.	
4038 <i>D 2382.3</i>	--N. entrance.	36° 34.8' N 6° 15.1' W	Oc.G. period 5s lt. 3.8s, ec. 1.2s		3	Green tower.	Q.G. and Q.R. lights mark interior entrance.
4041 <i>D 2385.7</i>	-El Puerto de Santa Maria.	36° 35.6' N 6° 13.5' W	Dir.Fl.W.R.G. period 6s fl. 1.5s, ec. 4.5s	46 14	5	Cylindrical metal tower.	G. 038.7°-039.6°, W.-040.4°, R.-041.5°.
4048 <i>D 2383</i>	--Escollera de Levante, E. head.	36° 34.7' N 6° 14.3' W	Fl.(2)G. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	33 10	3	Green metal tower; 13.	
4049 <i>D 2385.2</i>	--W. head.	36° 34.4' N 6° 14.9' W	Fl.R. period 5s fl. 0.5s, ec. 4.5s	36 11	3	Red metal tower; 13.	
4050 <i>D 2383.4</i>	--E. breakwater.	36° 34.5' N 6° 14.3' W	Q.(9)W. period 15s		3	Black and yellow metal tower; 13.	
4052 <i>D 2385</i>	--Channel, W. side.	36° 35.2' N 6° 14.0' W	Q.R.	20 6	2	Red tower; 10.	
4056 <i>D 2385.6</i>	--Muelle Pesquero, SW. corner.	36° 35.6' N 6° 13.6' W	Fl.(3)R. period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	20 6	1	Red tower; 10.	
SANCTI PETRI:							
4060 <i>D 2388</i>	-Castillo de Sancti Petri, Islet, N. head.	36° 22.6' N 6° 13.2' W	Fl.W. period 3s fl. 0.7s, ec. 2.3s	66 20	9	Round tower; 52.	
-Punta de las Piedras:							
4064 <i>D 2398</i>	--Coto San Jose Range, front.	36° 22.7' N 6° 12.2' W	Fl.W. period 5s fl. 0.5s, ec. 4.5s	46 14	6	Framework tower; 33.	
4068 <i>D 2398.1</i>	---Rear, 50 meters 050° from front.	36° 23.0' N 6° 12.1' W	Oc.(2)W. period 6s lt. 1s, ec. 1s lt. 1s, ec. 3s	59 18	6	Framework tower; 33.	
4072 <i>D 2404</i>	--Bateria de Urrutia Range, front, about 1.5 km. 013° from Castillo de Sancti Petri light.	36° 23.4' N 6° 13.0' W	Fl.W. period 5s fl. 0.5s, ec. 4.5s	43 13	6	Framework tower; 20.	
4076 <i>D 2404.1</i>	---Rear, 60 meters 346°30' from front.	36° 23.5' N 6° 13.0' W	Oc.(2)W. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	75 23	6	Framework tower; 33.	
4077 <i>D 2405</i>	Cabo Roche.	36° 17.8' N 6° 08.3' W	Fl.(4)W. period 24s fl. 0.6s, ec. 3.4s fl. 0.6s, ec. 3.4s fl. 0.6s, ec. 3.4s fl. 0.6s, ec. 11.4s	148 45	20	Quadrangular tower; 66.	
4078 <i>D 2405.4</i>	Conil, breakwater, head.	36° 17.7' N 6° 08.1' W	Fl.(2)R. period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6s	36 11	5	Red post; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-SOUTHWEST COAST							
4080 D 2406	Cabo Trafalgar , AVIATION LIGHT.	36° 10.9' N 6° 02.1' W	Fl.(2+1)W. period 15s fl. 0.4s, ec. 1.8s fl. 0.4s, ec. 6s fl. 0.4s, ec. 6s	167 51	22	White round tower; 112.	
4084 D 2408	Barbate, about 1.3 km. NW. of mouth of Barbate Rio.	36° 11.3' N 5° 55.3' W	Fl.(2)W.R. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	75 23	W. 10 R. 7	White round masonry tower, red bands; 59.	W. 281°-015°, R.-095°.
4088 D 2409	-Digue de Poniente, head.	36° 10.8' N 5° 55.5' W	Fl.R. period 4s fl. 0.5s, ec. 3.5s	39 12	5	Red truncated conical tower; 7.	
4092 D 2410	-Contradique, head.	36° 11.0' N 5° 55.8' W	Fl.G. period 3s fl. 0.4s, ec. 2.6s	26 8	2	Green conical tower; 7.	
STRAIT OF GIBRALTAR-NORTH SIDE							
4110 D 2411.5	Punta de Gracia.	36° 05.4' N 5° 48.7' W	Oc.(2)W. period 5s lt. 0.5s, ec. 1s lt. 0.5s, ec. 3s	246 75	13	Stone tower; 66.	
4112 D 2412	Punta Paloma.	36° 04.0' N 5° 43.1' W	Oc.W.R. period 5s lt. 4s, ec. 1s	148 45	W. 10 R. 7	Two-story dwelling; 16.	W. 010°-340°, R.-010°.
4116 D 2414	Tarifa.	36° 00.1' N 5° 36.5' W	Fl.(3)W.R. period 10s	134 41	W. 26 R. 18	White tower; 107.	W. 113°-089°, R.-113°. Siren: 3 bl. ev. 60s (bl. 5s, si. 3s, bl. 5s, si. 3s, bl. 5s, si. 39s). DGPS Station.
	RACON		C(- • - •)		20		(3 & 10cm)
4118 D 2415	-Lado East.	36° 00.2' N 5° 36.4' W	Fl.R. period 5s fl. 0.5s, ec. 4.5s	39 12	5	White and red rectangular tower; 7.	Radar reflector.
4120 D 2418	Puerto de Tarifa, No. 1 mole.	36° 00.6' N 5° 36.1' W	Fl.(2)R. period 7s fl. 0.5s, ec. 1s fl. 0.5s, ec. 5s	23 7	1	Round red column; 13.	
4124 D 2416	-E. mole, head.	36° 00.5' N 5° 36.1' W	Fl.G. period 5s fl. 0.5s, ec. 4.5s	36 11	5	White pyramidal support; 16.	Visible 249°-045°.
4128 D 2420	Punta Carnero.	36° 04.7' N 5° 25.5' W	Fl.(4)W.R. period 20s fl. 1.5s, ec. 2s fl. 1.5s, ec. 2s fl. 1.5s, ec. 2s fl. 1.5s, ec. 8s	138 42	W. 16 R. 13	Round masonry tower and white building; 62.	R. 325°-018°, W.-325°. Siren: Mo.(K) ev. 30s (bl. 3s, si. 1s, bl. 1s, si. 1s, bl. 3s, si. 21s).
For lights on the south side of the Strait, see Ceuta, Morocco.							
ALGECIRAS							
4132 D 2423.2	--N. breakwater, S. head.	36° 07.1' N 5° 26.2' W	Fl.(4)G. period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	16 5	1	Green metal framework structure; 3.	Radar reflector.
4136 D 2425	-N. jetty, head.	36° 08.9' N 5° 25.7' W	Fl.R. period 5s fl. 0.5s, ec. 4.5s	36 11	7	Red round tower; 20.	Radar reflector.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
STRAIT OF GIBRALTAR-NORTH SIDE							
4138 <i>D 2424.95</i>	--elbow.	36° 08.6' N 5° 25.8' W	Fl.(2)R. period 7s fl. 0.5s, ec. 1s fl. 0.5s, ec. 5s	23 7	3	Red round tower, red square daymark; 20.	Visible 003°-203°.
4139 <i>D 2424.8</i>	-Breakwater, N. head.	36° 08.1' N 5° 25.1' W	Oc.(2)R. period 6s lt. 1s, ec. 0.5s lt. 4s, ec. 0.5s	36 11	5	Red round column; 10.	Visible 014°-000°.
4139.5 <i>D 2424.9</i>	--S. head.	36° 07.0' N 5° 25.0' W	Oc.G. period 6s lt. 5s, ec. 1s	36 11	5	Green round column; 10.	Visible 180°-169°.
4140 <i>D 2424.7</i>	-Isla Verde, N. head.	36° 08.0' N 5° 25.4' W	Fl.(2+1)G. period 12s fl. 0.5s, ec. 0.7s fl. 0.5s, ec. 2.1s fl. 0.5s, ec. 7.7s	20 6	3	Green and red round column; 10.	Visible 094°-349°.
4140.5 <i>D 2423.5</i>	--S. head.	36° 07.2' N 5° 25.3' W	Oc.R. period 6s lt. 5s, ec. 1s	20 6	3	Red round column; 10.	Visible 194°-090°.
4141 <i>D 2423.55</i>	--S. side.	36° 07.2' N 5° 25.6' W	Fl.(4)Y. period 12s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 5.2s	13 4	3	Yellow post, topmark; 10.	Radar reflector.
4142 <i>D 2425.3</i>	-Naval mole, N. head.	36° 08.8' N 5° 26.1' W	Oc.G. period 5s lt. 4s, ec. 1s	26 8	3	Green and white round tower; 16.	
4143 <i>D 2425.4</i>	--SE. corner.	36° 08.1' N 5° 26.2' W	Oc.(2)G. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	20 6	1	Green round column, green triangular topmark; 10.	
4145 <i>D 2425.66</i>	-Darsena Pesquera.	36° 08.2' N 5° 26.6' W	Fl.(4)G. period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	16 5	1	Green round column, green triangular topmark; 7.	
4147 <i>D 2425.72</i>	-Muelle de la Galera, pier No. 2.	36° 07.9' N 5° 26.2' W	Fl.(4)Y. period 12s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 5.2s	16 5	1	Yellow X on yellow post; 7.	
4149 <i>D 2425.7</i>	-Muelle de la Galerilla, pier No. 1.	36° 08.0' N 5° 26.2' W	Fl.(5)Y. period 20s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 11.2s	16 5	1	Yellow X on yellow post; 7.	
4151 <i>D 2425.74</i>	--Pier No. 3.	36° 07.9' N 5° 26.2' W	Fl.Y. period 5s fl. 0.5s, ec. 4.5s	16 5	1	Yellow X on yellow post; 7.	
4154 <i>D 2425.35</i>	-Bridge.	36° 08.9' N 5° 26.5' W	Iso.W. period 4s		1	White round panel, red bands.	
4166 <i>D 2430</i>	-Acerinox, W. jetty, head.	36° 10.6' N 5° 25.3' W	Fl.R. period 5s fl. 0.5s, ec. 4.5s	23 7	3	Yellow truncated pyramidal tower; 10.	
4166.5 <i>D 2430.013</i>	--Range, common front.	36° 10.6' N 5° 25.3' W	Q.R.		3	Red tower; white stripe; 20.	
4166.51 <i>D 2430.01</i>	---Rear, 40 meters 015° from common front.	36° 10.6' N 5° 25.3' W	Iso.G. period 2s		3	Green column, white stripe; 30.	Marks approximate limit of safe depth.
4166.52 <i>D 2430.015</i>	---Rear, 25 meters 350° from common front.	36° 10.6' N 5° 25.3' W	Iso.R. period 2s		3	Red column, white stripe; 26.	Marks 50 meters from Muelle de Levante.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
STRAIT OF GIBALTAR-NORTH SIDE							
4167 <i>D 2430.2</i>	--E. jetty, head.	36° 10.5' N 5° 25.1' W	Fl.G. period 5s fl. 0.5s, ec. 4.5s	26 8	1	Green truncated pyramidal tower; 10.	
4167.2 <i>D 2431</i>	Coal Terminal, W. head.	36° 10.4' N 5° 25.2' W	Fl.(4)G. period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	30 9	5	Green column on white base; 16.	
4167.3 <i>D 2431.2</i>	--E. corner.	36° 10.5' N 5° 24.9' W	V.Q.(6)+L.Fl.W. period 10s	30 9	1	S. CARDINAL YB, beacon, topmark; 16.	
4168 <i>D 2432</i>	--Oil pipeline directional indicator.	36° 10.9' N 5° 24.5' W	Fl.(4)Y. period 15s	49 15	5	SPECIAL post, topmark; 36.	
4172 <i>D 2431.6</i>	-- <i>CEPSA TERMINAL LANBY.</i>	36° 09.9' N 5° 24.9' W	Fl.(4)Y. period 15s		5	SPECIAL Y, topmark; 20.	Marks end of underwater pipeline. Floating hose extends to a radius of 70m. Radar reflector.
4180 <i>D 2434.4</i>	--Extremity of W. arm.	36° 10.6' N 5° 24.1' W	Fl.(3)G. period 10s	39 12	5	Green round tower; 30.	
4184 <i>D 2434.2</i>	--Extremity of E. arm.	36° 10.6' N 5° 23.6' W	Fl.(2)R. period 10s	39 12	5	Red column; 30.	
4204 <i>D 2436.6</i>	--Atragues de Aljibes, W. dolphin.	36° 10.6' N 5° 23.4' W	Fl.G. period 5s fl. 0.4s, ec. 4.6s	19 6	3	Green Post; 3.	
4208 <i>D 2436.7</i>	--E. dolphin.	36° 10.6' N 5° 23.1' W	Q.(2)R. period 8s	19 6	3	Metal post; 3.	
GIBALTAR (U.K.):							
4214 <i>D 2436.81</i>	--Muelle de San Felipe, spur.	36° 09.6' N 5° 21.7' W	Fl.R. period 5s fl. 0.5s, ec. 4.5s	16 5	3	Red square on red round column; 10.	
4214.5 <i>D 2436.75</i>	--Muelle de Crinavis.	36° 10.2' N 5° 22.9' W	Q.(3)G. period 9s	20 6	3	Green round column, green triangular topmark; 10.	
4214.7 <i>D 2436.78</i>	--New esplanade, elbow.	36° 09.9' N 5° 22.4' W	Q.G.	20 6	3	Green post; 10.	
4215 <i>D 2437.05</i>	--Puerto Deportivo de la Alcaidesa, N. corner.	36° 09.6' N 5° 21.5' W	Fl.(4)G. period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	16 5	1	Green round column; 10.	
4215.1 <i>D 2437.055</i>	--S. corner.	36° 09.5' N 5° 21.5' W	Fl.(2)R. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	16 5	1	Red column; 10.	
4215.2 <i>D 2437.075</i>	--Central pier, head.	36° 09.5' N 5° 21.4' W	Fl.(3)G. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	16 5	1	Green round column; 7.	
4215.3 <i>D 2437.08</i>	--Dique de Capitania, head.	36° 09.5' N 5° 21.6' W	Fl.(2)G. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	16 5	3	Green post; 10.	
4216 <i>D 2436.8</i>	--Mole de Abrigo de La Lines, head.	36° 09.5' N 5° 22.0' W	Fl.G. period 5s fl. 0.5s, ec. 4.5s	26 8	5	Green post, concrete base, green triangular topmark; 10.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
STRAIT OF GIBRALTAR-NORTH SIDE							
4220 <i>D 2438</i>	-Europa Point.	36° 06.7' N 5° 20.6' W	Iso.W. period 10s	161 49	19	White round tower, red band; 62.	Visible 197°-042°, 067°-125°. Horn: 1 bl. ev. 20s.
			Oc.R. period 10s		15		Visible 042°-067°.
			F.R.	144 44	15		Visible 042°-067°.
4224 <i>D 2442</i>	-S. Mole, A head.	36° 08.1' N 5° 21.8' W	Fl.W. period 2s fl. 0.1s, ec. 1.9s	60 18	15	White round tower; 49.	Horn: 1 bl. ev. 10s (bl. 2s, si. 8s).
4228 <i>D 2445</i>	-Detached mole, B head.	36° 08.2' N 5° 21.8' W	Q.R.	29 9	5		
4232 <i>D 2446</i>	--C head.	36° 08.6' N 5° 22.0' W	Q.G.	33 10	5		
4236 <i>D 2448</i>	-N. mole, D head.	36° 08.7' N 5° 21.9' W	Q.R.	60 18	5	Round tower.	
4240 <i>D 2449.2</i>	--E head.	36° 09.0' N 5° 21.9' W	F.R.	92 28	5	Tower.	
4241.4 <i>D 2449.3</i>	-Airport runway, NW corner.	36° 09.1' N 5° 21.6' W	V.Q.W.		9		Daytime range 1M.
4241.5 <i>D 2449.4</i>	--SW corner.	36° 09.0' N 5° 21.6' W	V.Q.W.		9		Daytime range 1M.
4241.6 <i>D 2449.5</i>	--N. jetty.	36° 09.1' N 5° 21.4' W	F.G.				Private light.
4241.7 <i>D 2449.6</i>	--S. jetty.	36° 09.0' N 5° 21.4' W	F.R.				Private light.
4242 <i>D 2451.5</i>	-New camp jetty.	36° 08.4' N 5° 21.5' W	2 F.G. (vert.)			Mast.	
4244 <i>D 2450.7</i>	-Coaling Island.	36° 08.2' N 5° 21.4' W	2 F.R. (vert.)	16 5			
4256 <i>D 2456</i>	-AVIATION LIGHT.	36° 09.0' N 5° 20.0' W	Mo.(GB)R. period 10s	1329 405	30		

Section 4

Mediterranean Coast of Spain Including Balearic Islands

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-MEDITERRANEAN SEA							
4264 <i>E 0008</i>	Dique de Abrigo, entrance.	36° 10.7' N 5° 19.9' W	Fl.G. period 8s fl. 1s, ec. 7s	36 11	5	Green round tower.	
4266 <i>E 0012</i>	Punta Carbonera.	36° 14.7' N 5° 18.0' W	Oc.W. period 4s lt. 3s, ec. 1s	128 39	14	White tower; 46.	
4268 <i>E 0018</i>	La Duquesa, Marina de Manilva, E. dike, head.	36° 21.2' N 5° 13.7' W	Fl.G. period 5s fl. 0.5s, ec. 4.5s	26 8	5	Green truncated conical tower; 10.	
4272 <i>E 0018.3</i>	-Dike, N. point.	36° 21.4' N 5° 13.6' W	Q.(3)W. period 10s	22 7	5	Black truncated tower, yellow bands; 10.	
4276 <i>E 0018.41</i>	-Breakwater, head.	36° 21.2' N 5° 13.7' W	Fl.R. period 5s	23 7	3	Metal framework tower, red top; 16.	
4280 <i>E 0020</i>	Punta de la Doncella.	36° 25.1' N 5° 09.2' W	Fl.(1+2)W. period 15s fl. 0.4s, ec. 6s fl. 0.3s, ec. 2s fl. 0.3s, ec. 6s	105 32	18	Octagonal tower, white dwelling with red roof; 82.	
4282 <i>E 0022</i>	Estepona, Dique de Abrigo, extension, head.	36° 24.8' N 5° 09.4' W	Q.(6)+L.Fl.W. period 15s	26 8	5	S. CARDINAL YB, tower; 20.	
4284 <i>E 0022.2</i>	Estepona, Dique de Levante, 140 meters from head.	36° 24.8' N 5° 09.4' W	Fl.G. period 5s	30 9	5	Green metal mast; 23.	
4288 <i>E 0024</i>	-Dique de Poniente.	36° 24.9' N 5° 09.4' W	Fl.(2)R. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	30 9	3	White truncated tower, red top; 20.	
4292 <i>E 0031</i>	-Dique de Benabola, elbow.	36° 29.1' N 4° 57.2' W	Fl.R. period 3s	23 7	4	Truncated masonry tower, red lantern; 13.	Siren: 1 bl. ev. 60s (bl. 5s, si. 55s).
4296 <i>E 0032</i>	-Dique de Levante, S. head.	36° 29.0' N 4° 57.3' W	Fl.G. period 4s fl. 1s, ec. 3s	42 13	8	Truncated masonry tower, green lantern; 30.	
4300 <i>E 0032.2</i>	--N. head.	36° 29.4' N 4° 56.9' W	Q.(6)+L.Fl.W. period 15s	33 10	4	Masonry tower, yellow lantern.	
4304 <i>E 0056</i>	Marbella.	36° 30.5' N 4° 53.3' W	Fl.(2)W. period 14.5s fl. 0.4s, ec. 3.2s fl. 0.4s, ec. 10.5s	115 35	22	White round tower; 95.	
4312 <i>E 0057.6</i>	Cabo Pino, marina.	36° 29.0' N 4° 44.4' W	Fl.(4)G. period 10s	23 7	4	White round tower; 13.	Q.(6)+L.Fl.W. 15s 3M on jetty.
4316 <i>E 0057.8</i>	-W. jetty, head.	36° 29.0' N 4° 44.6' W	Fl.(2)R. period 5s fl. 0.7s, ec. 0.7s fl. 0.7s, ec. 2.9s	23 7	4	White round tower; 13.	
4320 <i>E 0058</i>	Punta Calaburras AVIATION LIGHT.	36° 30.5' N 4° 38.3' W	Fl.W. period 5s fl. 0.2s, ec. 4.8s	151 46	18	White truncated conical tower; 83.	
PUERTO DE BENALMADENA:							
4324 <i>E 0060.5</i>	-S. breakwater, NE. head.	36° 35.9' N 4° 30.4' W	Q.(3)W. period 10s	30 9	4	E. CARDINAL Truncated masonry tower; 16.	
4328 <i>E 0060.4</i>	--SW. head.	36° 35.7' N 4° 30.7' W	Fl.G. period 5s fl. 1s, ec. 4s	30 9	10	White conical tower, green band; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-MEDITERRANEAN SEA							
4330 <i>E 0059.4</i>	-W. breakwater, E. head.	36° 32.5' N 4° 36.9' W	Fl.(2)G. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	20 6	3	Green truncated pyramidal tower; 13.	
4332 <i>E 0060.6</i>	--SW. head.	36° 35.7' N 4° 30.6' W	Fl.R. period 5s fl. 0.5s, ec. 4.5s	13 4	4	White conical tower, red band; 7.	
4334 <i>E 0060.3</i>	-Laja Bermeja.	36° 35.6' N 4° 30.8' W	Q.(3)W. period 10s	23 7	5	E. CARDINAL BYB, tower, topmark; 13.	
4336 <i>E 0060.7</i>	-S. breakwater, N. end of T-head.	36° 35.6' N 4° 36.7' W	Fl.(3)G. period 10s	13 4	4	White conical tower, green band; 7.	
FUENGIROLA:							
4339 <i>E 0058.5</i>	-Pier, head.	36° 32.7' N 4° 36.7' W	Fl.G. period 5s fl. 0.5s, ec. 4.5s	16 5	5	Green pyramidal tower; 13.	
4340 <i>E 0059</i>	-Main Peak.	36° 33.0' N 4° 37.0' W	Fl.(4)R. period 12s	33 10	4	Red pyramidal tower; 12.	
4346 <i>E 0060.8</i>	Offshore terminal.	36° 39.8' N 4° 26.3' W	V.Q.(3)W. period 5s	62 19	3	E. CARDINAL BYB, tower, topmark; 39.	
MALAGA:							
4348 <i>E 0061</i>	-Power station wharf.	36° 41.0' N 4° 26.4' W	Q.(3)W. period 10s	36 11	3	E. CARDINAL BYB, tower, topmark; 26.	
4360 <i>E 0062</i>	-Malaga.	36° 42.9' N 4° 24.9' W	Fl.(3+1)W. period 20s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 7.3s fl. 0.2s, ec. 7.3s	125 38	25	White truncated conical tower on 2-story dwelling; 120.	Obscured 047°-243°.
4364 <i>E 0064</i>	--Head.	36° 42.4' N 4° 24.9' W	Fl.(2)G. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	43 13	3	Green conical masonry tower; 13.	Visible 000°-200°.
4366 <i>E 0064.5</i>	-NE. Marina.	36° 42.5' N 4° 24.7' W	Q.R.	39 12	3	Red round tower; 7.	Q.R. & Q.G. mark entrance.
4366.5 <i>E 0065</i>	-SE. breakwater, head.	36° 41.9' N 4° 24.9' W	Fl. G. period 5s fl. 0.5s, ec. 4.5s	23 7	5	Green pyramidal tower; 13.	
4367 <i>E 0065.3</i>	-Rio Guadalmedina, submerged jetty, head.	36° 42.1' N 4° 25.7' W	Q.(6)W.+L.FI. period 15s		3	S. CARDINAL YB, post, topmark; 13.	
4367.1 <i>E 0065.5</i>	-New contradike, SW. corner.	36° 42.1' N 4° 25.6' W	Q.(6)W.+L.FI. period 15s		3	S. CARDINAL YB, tower, topmark; 13.	
4367.2 <i>E 0065.7</i>	--E. end.	36° 42.1' N 4° 25.1' W	Fl.R. period 5s fl. 0.5s, ec. 4.5s		5	Red truncated round tower; 16.	
4368 <i>E 0066</i>	-W. breakwater, head.	36° 42.5' N 4° 25.0' W	Fl.(2)R. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	42 13	4	Truncated conical tower, red top; 26.	Visible 347°-231°.
4370 <i>E 0069</i>	-Small craft harbor, N. dike, head.	36° 42.9' N 4° 24.9' W	Fl.(3)R. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	19 6	2	Red metal column; 13.	
4371 <i>E 0069.2</i>	--S. dike, head.	36° 42.9' N 4° 24.9' W	Fl.(3)G. period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4.5s	19 6	2	Green metal column; 13.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-MEDITERRANEAN SEA							
4371.5 E 0069.4	-Muelle Canovas del Castillo.	36° 43.0' N 4° 24.1' W	Fl.(2+1)G. period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 4.5s	20 6	2	Green tower, red band; 13.	
4372 E 0067.5	-Fishing Basin in outer habor, N. spur mole, head.	36° 42.7' N 4° 25.2' W	Q.G.	16 5	2	Conical stone tower; 13.	
4376 E 0067	--S. spur mole, head.	36° 42.6' N 4° 25.2' W	Q.R.	13 4	2	Conical stone tower; 10.	
4380 E 0068	-E. inner mole, head.	36° 42.8' N 4° 24.9' W	Fl.(2)G. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	20 6	2	Conical masonry tower; 16.	
4384 E 0070	-W. transversal mole, SE. corner.	36° 42.8' N 4° 25.0' W	Fl.(2+1)R. period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 4.5s	23 7	2	Conical masonry tower, red top; 16.	
4384.5 E 0070.2	-Romero Robledo, mole, NE. corner.	36° 42.8' N 4° 25.0' W	Fl.(4)R. period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	23 7	2	Pillar on hut, red top.	
4390 E 0071	Puerto de El Candado entrance, S.	36° 42.9' N 4° 20.8' W	L.Fl.G. period 8s fl. 4s, ec. 4s	23 7	3	Truncated pyramidal masonry tower, green top; 16.	
4390.2 E 0071.2	-N.	36° 42.9' N 4° 20.8' W	L.Fl.R. period 8s fl. 4s, ec. 4s	23 7	3	Truncated pyramidal masonry tower, red top; 16.	
4392 E 0072	Torre del Mar.	36° 44.1' N 4° 05.8' W	Fl.(1+2)W. period 10s fl. 1s, ec. 3s fl. 1s, ec. 1s fl. 1s, ec. 3s	98 30	13	White round tower; 92.	Storm signals.
4396 E 0073.2	-Outer breakwater, head.	36° 44.9' N 4° 04.1' W	Fl.G. period 5s	29 9	5	White conical tower, green top; 13.	
4402 E 0073.7	-Silt retention dike, head.	36° 44.8' N 4° 04.4' W	Fl.R. period 4s	26 8	3	Red truncated tower; 13.	
4404 E 0073.6	-Inner breakwater, head.	36° 44.9' N 4° 04.1' W	Fl.(2)R. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	13 4	3	White round tower, red top; 7.	
4408 E 0074	Punta de Torrox.	36° 43.7' N 3° 57.4' W	Fl.(4)W. period 15s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 7.2s	95 29	20	White round tower, white building; 75.	
4409 E 0075	Puerto de la Mona.	36° 43.8' N 3° 43.5' W	Fl.(2)R. period 5s fl. 0.5s, ec. 0.7s fl. 0.5s, ec. 3.3s	43 13	4	Masonry tower, upper part red; 16.	
4410 E 0075.2	-Contradike.	36° 43.5' N 3° 43.5' W	Fl.(2)G. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	16 5	3	Masonry tower, upper part green; 10.	
4411 E 0074.8	Punta de la Mona.	36° 43.5' N 3° 43.8' W	Fl.W. period 5s fl. 1s, ec. 4s	459 140	15	Truncated conical masonry tower; 46.	
4411.5 E 0077	Motril, Dique de Poniente, head.	36° 43.2' N 3° 31.4' W	Fl.(2)R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	36 11	10	Red truncated conical tower; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-MEDITERRANEAN SEA							
4412 E 0079.2	New E. dike, head.	36° 43.3' N 3° 31.3' W	Fl.G. period 5s	19 6	2	Green truncated conical tower; 16.	Fl.R. 5s 2M marks W. dike.
4416 E 0079	-On angle.	36° 43.2' N 3° 31.2' W	Fl.(3)G. period 12s	19 6	5	Green truncated tower.	
4420 E 0080	Cabo Sacratif.	36° 41.7' N 3° 28.0' W	Fl.(2)W. period 10s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 7.3s	320 98	25	White conical tower, dwelling; 56.	
4422 E 0082	Punta del Melonar.	36° 43.2' N 3° 21.9' W	Fl.(3)W. period 13s	778 237	14	White truncated conical tower; 39.	
4424 E 0088	Adra.	36° 44.9' N 3° 01.8' W	Oc.(3)W. period 10.5s lt. 4.5s, ec. 1s lt. 1.5s, ec. 1s lt. 1.5s, ec. 1s	161 49	16	White tower, white and red bands; 85.	Reserve light range 9M.
4428 E 0088.4	-On W. mole, head.	36° 44.6' N 3° 01.1' W	Fl.(2)R. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	27 8	4	Red concrete tower.	Fl.G. 5s shown on head of E. mole.
4430 E 0089.5	Punta de los Bunos.	36° 41.8' N 2° 50.8' W	Fl.(4)W. period 11s	72 22	11	White masonry tower; 69.	
4432 E 0091	Alerimar, S. breakwater, head.	36° 41.8' N 2° 47.8' W	Fl.(4)G. period 21s	43 13	5	Green quadrangular tower.	
4437 E 0091.6	--Jetty No. 1, head.	36° 42.0' N 2° 47.9' W	Fl.(4)R. period 11s	10 3	3	Post on red truncated pyramidal tower; 10.	
4440 E 0090	Punta Sabinal.	36° 41.3' N 2° 42.0' W	Fl.(1+2)W. period 10s fl. 0.4s, ec. 3.9s fl. 0.4s, ec. 1s fl. 0.4s, ec. 3.9s	112 34	16	Truncated tower on white hut; 105.	
4444 E 0092	Roquetas de Mar, S. mole, head.	36° 45.4' N 2° 36.2' W	Fl.(3)R. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	33 10	5	Red round concrete tower; 13.	
4448 E 0092.4	-Dique Norte, head.	36° 45.4' N 2° 36.2' W	Fl.(3)G. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	16 5	3	Round tower on green square hut; 10.	
4452 E 0093	Almeria.	36° 49.8' N 2° 29.5' W	Fl.(2)W. period 12s fl. 0.3s, ec. 1.7s fl. 0.3s, ec. 9.7s	253 77	19	Four-sided stone tower, black stripe; 23.	Reserve light range 11M.
4456 E 0095	-Puerto Pesquero, Dique Sur, head.	36° 50.0' N 2° 29.0' W	Fl.(4)G. period 10.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4s	33 10	3	Green truncated conical tower.	
4460 E 0094	--Dique del Oeste, head.	36° 49.9' N 2° 29.0' W	Fl.(3)R. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	33 10	4	Red truncated conical tower.	
4462 E 0095.5	-Muelle de Armamento, S. head.	36° 50.0' N 2° 29.1' W	Fl.(4)R. period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	16 5	1	Red tower; 10.	
4464 E 0096	-W. breakwater, head.	36° 49.6' N 2° 27.8' W	Fl.R. period 5s fl. 1s, ec. 4s	62 19	7	White octagonal tower, red top and base; 39.	F.R. shown adjacent to pilot house and on pier. Once inside, range marks middle of port.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-MEDITERRANEAN SEA							
4468 E 0099	-Muelle de Poniente, SE. corner.	36° 49.9' N 2° 28.2' W	Fl.(2)R. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	16 5	1	Red tower; 10.	
4469 E 0100.4	-RoRo ramp.	36° 50.1' N 2° 28.2' W	Fl.(2)G. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	20 6	1	Green square column; 10.	
4472 E 0098	-E. breakwater, head.	36° 49.9' N 2° 28.0' W	Fl.(2+1)G. period 14.5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s fl. 0.5s, ec. 9s	13 4	2	Green tower, red band; 3.	
4473 E 0101.4	-Dique de Abrigo, head.	36° 49.9' N 2° 27.8' W	Fl.(2)G. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	13 4	1	Green tower; 10.	Fl.Y. 5s 1M shown from base of dike.
4473.5 E 0101.6	--Contradique, head.	36° 49.9' N 2° 27.8' W	Fl.(2)R. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	13 4	1	Red tower; 10.	
4474 E 0101	-Ore Wharf No. 1, head.	36° 49.9' N 2° 27.9' W	Fl.R. period 4s fl. 1s, ec. 3s		1	Red wall.	
4476 E 0102	-Ore Wharf No. 2, head.	36° 49.9' N 2° 27.5' W	Fl.G. period 5s fl. 0.5s, ec. 4.5s	25 8	4	Green metal support; 10.	
4484 E 0103	-Power station wharf.	36° 49.2' N 2° 26.6' W	Q.(9)W. period 15s	35 11	5	W. CARDINAL YBY, tower, topmark; 30.	
4488	-Punta del Rio Buoy.	36° 48.4' N 2° 25.8' W	Q.(6)+L.Fl.W. period 15s			S. CARDINAL YB.	
4492 E 0106	Cabo de Gata.	36° 43.4' N 2° 11.5' W	Fl.W.R. period 4s fl. 0.2s, ec. 3.8s	180 55	W. 24 R. 20	White truncated tower, gray lantern; 62.	R. 316°-356°, W.-316°. Horn: Mo.(G) ev. 40s (bl. 4.5s, si. 2s, bl. 4.5s, si. 2s, bl. 1.5s, si. 25.5s).
PUERTO DE SAN JOSE:							
4494 E 0107	-S. dike, head.	36° 45.8' N 2° 06.1' W	Fl.R. period 6s fl. 0.5s, ec. 5.5s	23 7	3	PORT (A) R, tower, topmark.	
4494.2 E 0107.3	-E. dike, head.	36° 45.8' N 2° 06.1' W	Fl.G. period 7s fl. 1s, ec. 6s	26 8	4	STARBOARD (A) G, tower, topmark.	
4494.4 E 0107.2	--Jetty, head.	36° 45.8' N 2° 06.2' W	Fl.(3)W. period 14s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 7s	13 4	2	White masonry tower.	
4495 E 0107.7	Punta de la Polacra.	36° 50.6' N 2° 00.1' W	Fl.(3)W. period 14s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 7.5s	922 281	14	Masonry tower; 45.	
4496 E 0108	Mesa Roldan.	36° 56.6' N 1° 54.3' W	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	728 222	23	White octagonal tower; 59.	
4500 E 0109	Puerto de Carboneras, Playa de la Torre Vieja, S. breakwater, head.	36° 57.9' N 1° 53.6' W	Fl.(2)G. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	39 12	5	Green metal tower; 10.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-MEDITERRANEAN SEA							
4504 E 0109.2	--S. breakwater, elbow.	36° 58.2' N 1° 53.5' W	Q.(3)W. period 10s	39 12	3	E. CARDINAL BYB, tower, topmark; 10.	
4506 E 0109.4	--N. breakwater, head.	36° 58.4' N 1° 53.7' W	Fl.G. period 10s fl. 1s, ec. 9s	46 14	5	Green metal post; 13.	
4508 E 0109.3	--W. jetty.	36° 57.8' N 1° 53.7' W	Fl.(2)R. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	23 7	3	Red round tower; 10.	
4509 E 0109.5	--Auxiliary dike, N. head.	36° 58.1' N 1° 53.9' W	Fl.(2)R. period 9s fl. 0.5s, ec. 1s fl. 0.5s, ec. 7s	33 10	1	Red metal framework tower; 10.	
4510 E 0109.6	-Puerto Pesquero.	36° 59.4' N 1° 53.8' W	Fl.(3)G. period 12s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 5s	33 10	5	Green round tower; 20.	Fl.R. 4s marks breakwater close N.
4511 E 0109.7	--W. jetty.	36° 59.4' N 1° 53.9' W	Fl.(3)R. period 12s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 5s	26 8	3	Red round tower; 20.	
4512 E 0110	Garrucha.	37° 10.5' N 1° 49.4' W	Oc.(4)W. period 13s lt. 4.5s, ec. 1s lt. 1.5s, ec. 1s lt. 1.5s, ec. 1s lt. 1.5s, ec. 1s	62 19	13	White tower on house; 33.	
4516 E 0111	-Dique de Levante.	37° 10.8' N 1° 48.9' W	Fl.(3)G. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	43 13	5	Green round post; 36.	E. cardinal beacon Q.(3)W. 10s 4m 4M marks submerged groin 300 meters WSW.
4520 E 0112	-Dique de Poniente, 201 meters 336° from Dique de Lavante.	37° 11.0' N 1° 49.0' W	Fl.(3)R. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	21 6	3	Red truncated tower.	
4522 E 0113	Esperanza Cove.	37° 15.1' N 1° 46.0' W	Fl.(2)G. period 6s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 4.5s	26 8	5	Green truncated tower.	
4524 E 0114	Aguilas, on Punta Negra, W. of the port.	37° 24.2' N 1° 34.6' W	Fl.(2)W. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	99 30	13	Tower, white and black bands; 76.	
4528 E 0116	-Near mole, head.	37° 24.3' N 1° 34.4' W	Fl.(2)R. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	30 9	3	Red metal post; 16.	
4532 E 0117.5	-Islote de la Aguilica.	37° 24.2' N 1° 33.9' W	Fl.G. period 3s fl. 0.3s, ec. 2.7s	62 19	3	White quadrangular tower.	
4536 E 0120	Mazarron.	37° 33.7' N 1° 15.2' W	Oc.(1+2)W. period 13.5s lt. 1.5s, ec. 1s lt. 4.5s, ec. 1s lt. 4.5s, ec. 1s	213 65	15	White round tower and dwelling; 36.	Reserve light range 8M.
4540 E 0120.6	-Breakwater, head.	37° 33.9' N 1° 15.3' W	Fl.(4)R. period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	23 7	5	Red post; 10.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-MEDITERRANEAN SEA							
4541 E 0120.7	-La Galerica Island.	37° 33.9' N 1° 15.3' W	Fl.(4)G. period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	30 9	3	Metal framework tower, green top; 23.	
4548 E 0124	Cabo Tinoso.	37° 32.2' N 1° 06.4' W	Fl.(1+3)W. period 20s fl. 0.2s, ec. 6.4s fl. 0.2s, ec. 3.2s fl. 0.2s, ec. 3.2s fl. 0.2s, ec. 6.4s	479 146	24	White tower and dwelling; 33.	
ALGAMECA GRANDE:							
4552 E 0125	-Breakwater, head.	37° 35.1' N 1° 00.3' W	Fl.(4)R. period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	33 10	7	White and yellow truncated conical tower; 16.	
4556 E 0125.3	-On point, about 201 meters NE. of breakwater.	37° 35.2' N 1° 00.2' W	Fl.(3)G. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	26 8	3	White and yellow truncated tower; 16.	
4560 E 0125.6	-Mole, about 284 meters NW. of breakwater.	37° 35.2' N 1° 00.4' W	F.G.	23 7	2	Gray iron column; 15.	Occasional.
CARTAGENA:							
4564 E 0126	-Islote Escombrera.	37° 33.5' N 0° 58.1' W	Fl.W. period 5s fl. 0.2s, ec. 4.8s	213 65	17	White round tower on white dwelling; 26.	
4564.1 E 0126.025	--SW. canal breakwater, SE head.	37° 33.6' N 0° 58.0' W	3 F.R. (vert.)	26 8	1	Red post; 16.	
4564.2 E 0126.02	---SW. head.	37° 33.6' N 0° 58.3' W	3 F.R. (vert.)	26 8	1	Red round post; 16.	
-Puerto de Escombreras:							
4566 E 0126.1	--Dique Suroeste, head.	37° 34.0' N 0° 58.8' W	Fl.G. period 3s fl. 0.5s, ec. 2.5s	33 10	10	Green and white tower; 23.	
4567 E 0126.15	--Outer dock, dolphin, head.	37° 34.1' N 0° 58.4' W	Fl.Y. period 3s fl. 0.5s, ec. 2.5s	23 7	5	SPECIAL Y, post, topmark; 10.	
4568 E 0126.2	--Bastarreche, mole, head.	37° 34.2' N 0° 58.0' W	Fl.(2)G. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	33 10	5	Green and white truncated pyramidal tower; 23.	Visible 075°-319°. Radar reflector.
4569 E 0126.4	--Pantalan Metaneros, E end.	37° 34.4' N 0° 57.8' W	Fl.(3)R. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	26 8	1	Red post; 3.	
4570 E 0126.81	--Muelle de Masse.	37° 33.8' N 0° 57.6' W	Dir.Oc.W.R.G. period 4s lt. 3s, ec. 1s	43 13	3	White tower; 33.	G.129°-134°, W.-144°, R.-158°30'.
4576.5 E 0126.5	--Muelle Pantalou, on dolphin.	37° 34.1' N 0° 57.6' W	Fl.(2+1)R. period 14.5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s fl. 0.5s, ec. 9s	23 7	3	Red column, green band; 10.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-MEDITERRANEAN SEA							
4576.75 <i>E 0126.65</i>	--Punta de los Parales, SW. head.	37° 34.0' N 0° 57.2' W	Fl.(3)G. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	23 7	1	Green column; 13.	
4576.8 <i>E 0126.64</i>	--Muelle de Isaac Peral, SE. corner.	37° 34.1' N 0° 57.1' W	Fl.R. period 3s fl. 0.5s, ec. 2.5s	23 7	1	Red column; 10.	
4577 <i>E 0126.7</i>	--Muelle Principe Felipe.	37° 34.2' N 0° 57.5' W	Fl.(4)R. period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	23 7	1	Red post; 10.	
4577.4 <i>E 0126.8</i>	---Atrache Oeste, NW. corner.	37° 34.3' N 0° 57.6' W	Dir.Iso.W.R.G. period 4s	46 14	5	White tower; 36.	G.084°-087°, W. -089°, R.-094°.
4577.5 <i>E 0126.75</i>	---On dolphin.	37° 34.3' N 0° 57.6' W	Fl.(2+1)G. period 16s fl. 1s, ec. 1s fl. 1s, ec. 3s fl. 1s, ec. 9s	23 7	1	Green column, red band; 10.	
4588 <i>E 0128</i>	-Dique de Navidad (Oestre), head.	37° 35.1' N 0° 59.1' W	Fl.(2)R. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	49 15	10	White tower, red top; 36.	
4590 <i>E 0130.3</i>	-Espalmador, floating breakwater, head.	37° 35.3' N 0° 59.3' W	Q.R.		1	Red column.	
4592 <i>E 0130</i>	-Dique de la Curra (Este).	37° 35.4' N 0° 58.9' W	Fl.(3)G. period 14s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 7.5s	45 14	5	White round masonry tower, green cupola; 36.	
4593 <i>E 0130.5</i>	-Muelle del Carbon.	37° 35.4' N 0° 59.2' W	Fl.(2+1)R. period 14.5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s fl. 0.5s, ec. 9s	26 8	3	Red post, green band; 16.	
4594 <i>E 0131</i>	-Yacht club, W. end.	37° 35.8' N 0° 59.2' W	Oc.G. period 3s	16 5	1	Green column; 16.	
4594.2 <i>E 0131.2</i>	-Marina, outer breakwater.	37° 35.8' N 0° 59.1' W	Q.G.	16 5	1	Green triangular tower; 13.	
4594.4 <i>E 0131.3</i>	--SE. corner.	37° 35.7' N 0° 58.8' W	Fl.(3)R. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	10 3	1	Red cylindrical post.	
4595 <i>E 0132</i>	-Dique-muelle de Santiago, head.	37° 35.9' N 0° 58.4' W	Fl.(4)R. period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	16 5	1	Red post; 10.	
4595.5 <i>E 0132.2</i>	-Muelle de talleres, NW. corner.	37° 35.9' N 0° 58.4' W	Fl.G. period 3s fl. 0.5s, ec. 2.5s	16 5	1	Green post; 10.	
4595.75 <i>E 0132.4</i>	-Dique de Alba.	37° 35.8' N 0° 58.5' W	Fl.(2+1)G. period 16s fl. 1s, ec. 1s fl. 1s, ec. 3s fl. 1s, ec. 9s	16 5	1	Green column, red band; 10.	
4596 <i>E 0134</i>	Puerto de Portman, Punta de la Chapa.	37° 34.8' N 0° 50.5' W	Oc.W. period 3.5s lt. 2.5s, ec. 1s	161 49	13	White round tower, aluminum cupola on dwelling; 26.	Visible over an arc of 270°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-MEDITERRANEAN SEA							
4600 <i>E 0136.8</i>	Cabo de Palos.	37° 38.2' N 0° 41.3' W	Fl.(2)W. period 10s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 7.2s	265 81	23	Round tower on building; 167.	Siren: Mo.(P) ev. 40s.
	RACON		M(- -)		20		
PUERTO DE CABO DE PALOS:							
4604 <i>E 0137</i>	-Cala Auellan, mole.	37° 37.9' N 0° 42.0' W	Fl.(2)G. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	20 6	5	Green round post; 10.	Visible 331°-210°.
4608 <i>E 0137.3</i>	-Dique de Abrigo, off head.	37° 37.9' N 0° 42.0' W	Fl.(2)R. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	16 5	3	Red round post; 10.	
4616 <i>E 0138</i>	Isla Hormiga.	37° 39.4' N 0° 38.9' W	Fl.(3)W. period 14s fl. 0.8s, ec. 2.2s fl. 0.8s, ec. 2.2s fl. 0.8s, ec. 7.2s	79 24	8	White round tower on white building; 39.	
4624 <i>E 0140</i>	El Estacio.	37° 44.5' N 0° 43.4' W	Fl.(4)W. period 20s fl. 1.2s, ec. 2.4s fl. 1.2s, ec. 2.4s fl. 1.2s, ec. 2.4s fl. 1.2s, ec. 8s	105 32	14	White round tower, black bands; 95.	Fl.W. 2.5s light shown SSE.
4628 <i>E 0139</i>	Isla Grosa, peak.	37° 43.6' N 0° 42.4' W	Fl.W. period 3s fl. 0.5s, ec. 2.5s	318 97	5	White round tower; 7.	
4632 <i>E 0141</i>	San Javier AVIATION LIGHT.	37° 47.2' N 0° 48.2' W	Fl.W. period 6s			Control tower.	Occasional.
4636 <i>E 0141.5</i>	San Pedro del Pinatar, N. dique, head.	37° 49.3' N 0° 45.1' W	Fl.(4)G. period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	43 13	5	Green post; 10.	Fl.(4)R. 12s 6m 3M marks head of S. dique.
4640 <i>E 0146</i>	Torre vieja, E. breakwater, head.	37° 57.9' N 0° 41.2' W	Fl.G. period 4s fl. 0.5s, ec. 3.5s	49 15	7	Octagonal concrete tower; 33.	
4644 <i>E 0146.2</i>	-W. breakwater, about 229 meters NW. of Torre vieja, head.	37° 58.0' N 0° 41.3' W	Fl.(3)R. period 11.5s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 6s	36 11	3	Red and white octagonal tower; 20.	
4645 <i>E 0146.4</i>	-Fishing Port, breakwater, head.	37° 58.4' N 0° 40.9' W	Fl.(2)G. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	13 4	2	Green post; 10.	
4646 <i>E 0146.6</i>	-Yacht Club jetty, E. head.	37° 58.5' N 0° 40.9' W	Fl.(4)R. period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	13 4	2	Red post; 10.	
4648 <i>E 0147</i>	Guardamar.	38° 04.3' N 0° 39.8' W	Oc.R. period 1.5s	1453 443	15	Radio tower, red and white bands.	On the same tower 7 groups of F.R. horizontal lights, spaced 45 meters apart from top, are shown.
4650 <i>E 0147.5</i>	Rio Segura, directional dam, S. end.	38° 06.7' N 0° 38.3' W	Fl.(3)R. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	26 8	5	Red octagonal tower; 16.	Fl.(3)G. 148 meters NW.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-MEDITERRANEAN SEA							
4652 <i>E 0148</i>	Isla Tabarca (Plana).	38° 09.7' N 0° 28.2' W	L.FI.W. period 8s fl. 2s, ec. 6s	95 29	15	Square tower on white dwelling; 46.	
4656 <i>E 0149</i>	-Breakwater, NE. side of island, head.	38° 09.9' N 0° 28.7' W	Fl.(2)R. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	30 9	3	Red tower; 13.	
4664 <i>E 0152</i>	Cabo Santa Pola.	38° 12.0' N 0° 30.8' W	Fl.(2+1)W. period 20s fl. 0.2s, ec. 2.6s fl. 0.2s, ec. 8.4s fl. 0.2s, ec. 8.4s	498 152	16	White square tower; 49.	
4668 <i>E 0154</i>	-Muelle de Santa Pola.	38° 11.1' N 0° 33.8' W	Fl.G. period 5s fl. 0.5s, ec. 4.5s	30 9	5	White and green octagonal tower; 26.	
4672 <i>E 0155</i>	-Contradique, extremity.	38° 11.1' N 0° 33.7' W	Q.(2)R. period 5.3s fl. 0.3s, ec. 0.2s fl. 0.3s, ec. 4.5s	26 8	3	Red and white octagonal tower; 16.	
ALICANTE:							
4676 <i>E 0157</i>	-Alicante AVIATION LIGHT.	38° 17.3' N 0° 34.0' W	Al.FI.W.G. period 4.3s	193 59		Metal framework tower.	
4680 <i>E 0158</i>	-Outer breakwater, head.	38° 19.6' N 0° 29.4' W	Fl.G. period 5s fl. 1.5s, ec. 3.5s	46 14	10	Green metal tower and green cupola; 30.	
4682.5 <i>E 0158.6</i>	--NE. corner.	38° 19.8' N 0° 29.5' W	Fl.(2)R. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	30 9	3	Red round tower on white base; 20.	
4684 <i>E 0161</i>	-E. mole, head.	38° 20.2' N 0° 28.9' W	Fl.(3)G. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	30 9	3	Green round tower on white base; 20.	
4688 <i>E 0162</i>	-SE. corner of W. mole.	38° 20.3' N 0° 28.9' W	Fl.R. period 5s fl. 0.5s, ec. 4.5s	26 8	3	Red round tower on white base; 20.	
4692 <i>E 0159</i>	-Fishing Harbor, mole, elbow.	38° 19.8' N 0° 29.4' W	Fl.(2+1)R. period 14.5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s fl. 0.5s, ec. 9s	26 8	3	Red round tower, green band; 20.	
4696 <i>E 0159.3</i>	--Muelle II, mole, head.	38° 20.0' N 0° 29.2' W	Fl.(4)R. period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	26 8	3	Red round tower on white base; 20.	
4700 <i>E 0160</i>	--Muelle A, head.	38° 20.0' N 0° 29.1' W	Fl.(2+1)R. period 21s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 13.5s	26 8	3	Red round tower, green band on white base; 20.	
4704 <i>E 0166</i>	Cabo de las Huertas.	38° 21.2' N 0° 24.2' W	Fl.(5)W. period 19s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 6s	125 38	14	White round tower; 30.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-MEDITERRANEAN SEA							
VILLAJYOYA:							
4708 E 0168	-Dique de Levante, head.	38° 30.3' N 0° 13.2' W	Fl.G. period 3s fl. 0.5s, ec. 2.5s	46 14		5 White octagonal tower, green base and top; 23.	
4713 E 0168.5	-Breakwater, head.	38° 30.4' N 0° 13.3' W	Fl.(2)R. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	26 8		3 Red truncated conical tower, white base; 23.	
4716 E 0172	Islote de Benidorm.	38° 30.0' N 0° 07.8' W	Fl.W. period 5s fl. 0.5s, ec. 4.5s	197 60		6 Concrete truncated conical tower; 13.	
4720 E 0172.5	Puerto de Benidorm, Digue de Abongo, head.	38° 32.0' N 0° 08.1' W	Fl.G. period 3s fl. 0.5s, ec. 2.5s	26 8		5 Green and white truncated conical tower; 10.	Visible 305°-254°.
4724 E 0173.6	Punta Bombarda (Albir).	38° 33.7' N 0° 03.0' W	Fl.(3)W. period 27s fl. 1.5s, ec. 4.5s fl. 1.5s, ec. 4.5s fl. 1.5s, ec. 13.5s	367 112		15 White round tower, dwelling; 26.	
4728 E 0174	Altea, E. breakwater.	38° 35.2' N 0° 03.2' W	Fl.(3)G. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	39 12		5 Green octagonal tower; 20.	
4732 E 0174.2	-W. breakwater.	38° 35.2' N 0° 03.3' W	Fl.(2)R. period 6s fl. 0.4s, ec. 1.6s fl. 0.4s, ec. 3.6s	30 9		3 Red octagonal tower; 20.	
EL PORTET							
4732.5 E 0174.4	-Breakwater, head.	38° 36.9' N 0° 01.9' W	Fl.(2)G. period 9s fl. 1s, ec. 2s fl. 1s, ec. 5s	23 7		1 Green round tower, white base; 13.	
4732.75 E 0174.6	-Contradique, head.	38° 36.9' N 0° 01.9' W	Fl.(2)R. period 9s fl. 1s, ec. 2s fl. 1s, ec. 5s	23 7		3 Red round tower, white base; 13.	
4733 E 0174.92	Mascarat, S. breakwater, W. head.	38° 37.7' N 0° 00.3' W	Fl.(2)G. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	26 8		5 White and green round tower; 20.	
4733.5 E 0174.93	-Outer breakwater, head.	38° 37.8' N 0° 00.2' W	Fl.(2)R. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	26 8		1 Red and white round tower; 20.	
4734 E 0174.9	-E. head.	38° 37.7' N 0° 00.1' E	Q.(6)+L.Fl.W. period 15s	33 10		3 Black and yellow round tower; 20.	
4736 E 0175.4	Calpe, S. breakwater.	38° 38.2' N 0° 04.1' E	Fl.G. period 4s fl. 0.5s, ec. 3.5s	43 13		5 Green and white truncated conical tower; 20.	
4740 E 0175.2	-W. breakwater.	38° 38.2' N 0° 04.1' E	Fl.(4)R. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 5s	26 8		3 Red truncated conical tower; 13.	

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SPAIN-ISLAS BALEARES							
ISLA DE FORMENTERA:							
4744 E 0250	-Formentera.	38° 39.7' N 1° 35.0' E	Fl.W. period 5s fl. 0.4s, ec. 4.6s	466 142	23	White tower on white dwelling; 72.	Visible 150°-050°.
4748 E 0251	-Cabo Berberia.	38° 38.5' N 1° 23.4' E	Fl.(2)W. period 15s fl. 0.2s, ec. 1.8s fl. 0.2s, ec. 12.8s	255 78	20	White round tower; 62.	Visible 234°-171°.
4752 E 0252	-Punta Cala Sabina.	38° 44.1' N 1° 24.9' E	Fl.(4)W. period 16s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 6s	43 13	7	White conical tower; 36.	
4756 E 0253	-Puerto de La Sabina, breakwater, head.	38° 44.1' N 1° 25.1' E	Fl.(2)G. period 6s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 3.5s	36 11	3	Green column on white tower, green triangular daymark, point up; 26.	
4760 E 0249	-Cala Pujols Range, front.	38° 43.4' N 1° 27.4' E	Q.R.	12 4	2	White square tower, red top; 11.	
4764 E 0249.1	--Rear, 80 meters 215°27' from front.	38° 43.4' N 1° 27.4' E	Iso.R. period 4s	24 7	2	White square tower, red top; 23.	
4768 E 0256	Isla Espardell, N. point.	38° 48.2' N 1° 28.6' E	Fl.(3)W. period 7.5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	121 37	8	Truncated conical tower on white round base; 52.	
4772 E 0254	Los Puercos (Pou), on islet, S. side of channel between Formentera and Ibiza.	38° 47.9' N 1° 25.3' E	Fl.(3+1)W. period 20s fl. 0.8s, ec. 2.2s fl. 0.8s, ec. 2.2s fl. 0.8s, ec. 6.2s fl. 0.8s, ec. 6.2s	92 28	10	White round tower, black bands; 82.	
4774 E 0253.5	Isla de Gastabi.	38° 46.5' N 1° 24.9' E	Q.(9)W. period 15s	39 12	4	W. CARDINAL YBY, beacon, topmark; 26.	
4776 E 0258	Bajo den Pou.	38° 48.3' N 1° 25.1' E	Q.W.	30 9	3	N. CARDINAL BY, beacon, topmark; 30.	
4780 E 0260	Isla de Ahorcados, S. extremity.	38° 48.9' N 1° 24.7' E	Oc.(1+2)W. period 14s lt. 1s, ec. 2s lt. 3.5s, ec. 2s lt. 3.5s, ec. 2s	89 27	10	White tower with black bands on white building; 56.	
ISLA DE IBIZA:							
4784 E 0274	-Isla Conejera.	38° 59.5' N 1° 12.7' E	Fl.(4)W. period 20s fl. 0.2s, ec. 1.5s fl. 0.2s, ec. 1.5s fl. 0.2s, ec. 1.5s fl. 0.2s, ec. 14.7s	279 85	18	White round tower on dwelling; 59.	
4788 E 0276	-Bleda Plana, on islet.	38° 58.9' N 1° 09.6' E	Fl.(3)W. period 15s fl. 0.8s, ec. 2.4s fl. 0.8s, ec. 2.4s fl. 0.8s, ec. 7.8s	92 28	10	White round tower on white base; 26.	Visible 349°-239°.
4796 E 0273	--Punta Xinxo.	38° 58.3' N 1° 17.0' E	Fl.(2)G. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	28 9	5	Green column on white hut, green triangular daymark, point up; 26.	Visible 075°-275°.
4796.4 E 0273.3	--Dique, head.	38° 58.6' N 1° 17.9' E	Fl.(2)R. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	36 11	3	Red round column, white square base, red rectangular daymark; 30.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-ISLAS BALEARES							
4799 E 0267.8	--Marina, outer breakwater.	38° 58.9' N 1° 32.3' E	Fl.(3)G. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	36 11	5	Green tower; 19.	
4800 E 0268	-Isla de Tagomago.	39° 02.0' N 1° 39.0' E	Fl.(1+2)W. period 30s fl. 0.3s, ec. 13.4s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 13.5s	282 86	21	White octagonal tower on building; 75.	
4804 E 0270	-Punta Moscarte.	39° 06.9' N 1° 31.9' E	Fl.W. period 5s fl. 0.3s, ec. 4.7s	305 93	18	White round tower, black diagonal stripes; 171.	Visible 074°-294°.
	-Puerto de Ibiza:						
4808 E 0264	--Islote Botafoch, entrance, E. side.	38° 54.2' N 1° 27.2' E	Oc.W.R. period 7s lt. 5s, ec. 2s	102 31	14	White round tower on white dwelling; 52.	W. 251°-034°, R.-045°, W.-242°, obsc.-273°. Siren: 2 bl. ev. 10s (bl. 2s, si. 2s, bl. 2s, si. 4s).
4809 E 0263	--Breakwater, head.	38° 54.2' N 1° 26.9' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	46 14	7	Green post; 20.	
4811 E 0262.5	--Isla Negra del Este.	38° 54.2' N 1° 26.5' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	39 12	5	Red tower; 13.	
4815 E 0264.4	--Marina d'es Botafoch.	38° 54.6' N 1° 27.0' E	Fl.(2+1)G. period 11s fl. 0.4s, ec. 0.8s fl. 0.4s, ec. 3s fl. 0.4s, ec. 6s	20 6	3	Green pedestal, red band, green triangular daymark, point up; 10.	
4817 E 0264.5	--Breakwater, inner.	38° 54.6' N 1° 26.9' E	Fl.(2)R. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	7 2	1	Red post; 3.	
4818 E 0264.6	--T-jetty, head.	38° 54.7' N 1° 26.9' E	Fl.(2)G. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	7 2	1	Green post; 3.	
4820 E 0265	--Dique de Abrigo.	38° 54.7' N 1° 26.6' E	Fl.(2)R. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	39 12	3	White truncated tower, red cupola; 36.	Obscured on bearings greater than 345°.
4821 E 0265.6	--Ibiza la Nueva, S. breakwater, head.	38° 54.8' N 1° 26.6' E	Fl.(2)G. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	16 5	1	Green and white truncated pyramidal tower; 10.	
4822 E 0265.9	--W. breakwater, center.	38° 54.8' N 1° 26.5' E	Fl.(2+1)G. period 21s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 9s fl. 0.5s, ec. 9s	16 5	1	Green post, red band; 20.	
4823 E 0266.1	--Ibiza Marina, entrance, E. side.	38° 54.8' N 1° 26.5' E	Q.G.	13 4	1	Green post, white band; 13.	
4823.1 E 0266.3	---W. side.	38° 54.8' N 1° 26.5' E	Q.R.	13 4	1	Red post, white band; 13.	
4824 E 0266	--Contramuelle, on SE. angle.	38° 54.7' N 1° 26.3' E	Fl.(3)R. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	20 6	1	Red post; 13.	
4828 E 0266.2	---NW. angle.	38° 54.7' N 1° 26.3' E	Fl.(4)R. period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	20 6	1	Red post; 13.	

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SPAIN-ISLAS BALEARES							
4840 E 0267	--Oil pier, near extremity.	38° 54.8' N 1° 26.4' E	Fl.(2+1)G. period 8s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 2s fl. 0.5s, ec. 4s	20 6	1	Green metal post, red band; 13.	Light is not at top of post.
4842 E 0267.2	--- SW. head.	38° 54.8' N 1° 26.3' E	Fl.(4)G. period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	20 6	1	Green metal post; 13.	Light is not at top of post.
4844 E 0262	-Islote Dado Grande.	38° 53.4' N 1° 27.1' E	Fl.(2)W. period 5s fl. 0.3s, ec. 1s fl. 0.3s, ec. 3.4s	43 13	5	ISOLATED DANGER BRB, tower, topmark; 10.	
4848 E 0278	-Islote Vedra, W. head.	38° 52.0' N 1° 11.0' E	Fl.W. period 5s fl. 1s, ec. 4s	69 21	11	Truncated conical tower; 10.	Obscured 134°-262°.
ISLA DE CABRERA:							
4852 E 0338	-Punta Anciola.	39° 07.7' N 2° 55.3' E	Fl.(3)W. period 15s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 9.8s	396 121	19	Red and white checkered tower with white dwelling; 69.	Visible 277°30'-169°.
4856 E 0338.3	-Cabo Lebeche.	39° 09.7' N 2° 55.1' E	Fl.(4)W. period 14.5s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 6.5s	243 74	7	Black and white checkered octagonal stone tower; 23.	
4860 E 0338.6	-Punta Creveta.	39° 09.3' N 2° 55.8' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s	43 13	7	White octagonal tower, rectangular daymark; 16.	
4864 E 0339	-Puerto de Cabrera, mole, head.	39° 09.1' N 2° 56.1' E	Fl.(2)R. period 10.5s fl. 0.5s, ec. 2.2s fl. 0.5s, ec. 7.3s	15 5	5	Red column on hut; 13.	
4868 E 0340	Isla Horadada.	39° 12.4' N 2° 58.7' E	Fl.(2)W. period 12s fl. 0.5s, ec. 3s fl. 0.5s, ec. 8s	139 42	10	White round tower, black bands; 43.	
ISLA DE MALLORCA:							
4872 E 0314	-Cabo de Salinas, Mallorca, S. point.	39° 15.9' N 3° 03.2' E	Fl.(2+1)W. period 20s fl. 1s, ec. 2s fl. 1s, ec. 7.5s fl. 1s, ec. 7.5s	56 17	11	Tower with white hut; 56.	Visible 265°-116°.
4876 E 0314.4	-Puerto de Campos, pier, head.	39° 19.0' N 3° 00.0' E	Fl.(4)R. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 5s	15 5	3	PORT (A) R, beacon, topmark; 16.	
4880 E 0314.6	--Contradique, head.	39° 19.0' N 2° 59.9' E	Fl.G. period 3s fl. 1s, ec. 2s	14 4	1	Green column on white hut; 10.	
4884 E 0315	-Punta Puntasa.	39° 18.8' N 2° 59.6' E	Fl.(3)W. period 10.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 6s	59 18	7	White round tower, black bands; 39.	

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SPAIN-ISLAS BALEARES							
4885 <i>E 0314.2</i>	-Isla de la Guardia.	39° 18.7' N 3° 00.1' E	Fl.(4)G. period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	23 7	5	Green round tower; 16.	
4887 <i>E 0315.4</i>	-Rapita, breakwater, head.	39° 21.7' N 2° 57.3' E	Fl.R. period 2.5s fl. 0.5s, ec. 2s	23 7	5	Red column; 19.	
4888 <i>E 0315.8</i>	-Punta Plana.	39° 21.2' N 2° 54.9' E	Fl.(1+3)W. period 12s fl. 0.5s, ec. 3s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 5s	52 16	7	White round tower, black bands; 39.	
4892 <i>E 0316</i>	-Cabo Blanco.	39° 21.8' N 2° 47.3' E	L.Fl.W. period 10s fl. 2s, ec. 8s	312 95	15	White tower, dwelling; 39.	Obscured beyond Archipelago de Cabrera 321°-336°.
4895 <i>E 0316.3</i>	-El Arenal, shelter dike, head.	39° 30.2' N 2° 44.9' E	Fl.(3)G. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	26 8	5	White round tower, green band; 13.	
4895.1 <i>E 0316.35</i>	---Elbow.	39° 30.0' N 2° 44.8' E	Q.(9)W. period 15s	20 6	3	Yellow column, black band; 7.	
4895.2 <i>E 0316.55</i>	--Outer breakwater, head.	39° 30.1' N 2° 44.9' E	Fl.(3)R. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	23 7	3	Red post; 13.	
4895.5 <i>E 0316.6</i>	--Counterdike, head.	39° 30.7' N 2° 44.9' E	Fl.(4)R. period 11s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6s	26 8	1	Red and white round tower on white square base; 20.	
4896 <i>E 0316.4</i>	-Inner pier, NE. corner.	39° 30.2' N 2° 44.9' E	Fl.(2+1)R. period 11.5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 4.5s	26 8	1	Red round tower, green band, white top; 23.	
4896.5 <i>E 0316.5</i>	---SW. corner.	39° 30.1' N 2° 44.8' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	13 4	1	Red round tower; 10.	
4900 <i>E 0316.7</i>	-L'an Pastilla, outer breakwater, head.	39° 32.0' N 2° 43.1' E	Fl.(4)R. period 11s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6s	26 8	5	Red tower on concrete base; 20.	
4901 <i>E 0316.72</i>	-E. breakwater, head.	39° 32.0' N 2° 43.1' E	Fl.(4)G. period 11s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6s	20 6	3	Green tower; 16.	
4902 <i>E 0316.74</i>	-Cala Gamba, entrance.	39° 32.8' N 2° 41.7' E	Fl.R. period 2s fl. 0.5s, ec. 1.5s	16 5	5	Red post; 10.	
4904 <i>E 0317</i>	-Cala d'en Rigo, 600 meters E. of Cala Portixol, E. jetty, head.	39° 33.6' N 2° 40.6' E	Fl.(2)G. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	23 7	3	Green pole; 13.	
4908 <i>E 0317.2</i>	--W. jetty, head.	39° 33.6' N 2° 40.6' E	Fl.(2)R. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	23 7	5	Red pole; 16.	

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SPAIN-ISLAS BALEARES							
4912 <i>E 0316.8</i>	-Portixol, Pier de Troneras, head.	39° 33.6' N 2° 40.2' E	Fl.(3)R. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	23 7	5	Red round tower, white hut, red rectangular daymark; 19.	
4916 <i>E 0316.82</i>	--Sa Raqueta Pier.	39° 33.5' N 2° 40.1' E	Fl.(3)G. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	23 7	3	Green round tower, white hut, green triangular daymark; 19.	
4920 <i>E 0316.83</i>	--Inner breakwater, W. side.	39° 33.5' N 2° 40.0' E	Fl.(4)R. period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	23 7	1	Red round tower, white hut, red triangular daymark; 13.	
4924 <i>E 0316.84</i>	---E. side.	39° 33.7' N 2° 40.2' E	Fl.(4)G. period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	10 3	1	Green round tower, green triangular topmark, white base; 7.	
4932 <i>E 0318.8</i>	-Porto Pi.	39° 32.9' N 2° 37.4' E	Fl.(2)W. period 15s fl. 0.4s, ec. 3.3s fl. 0.4s, ec. 10.9s	135 41	18	Quadrangular stone tower; 125.	Visible outside Bahi de Palma 327°-040°.
4934 <i>E 0319</i>	--Muelle de Poniente, E.	39° 33.2' N 2° 38.0' E	Fl.(2+1)R. period 14.5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s fl. 0.5s, ec. 9s	7 2	3	Red post, green band on red dolphin; 7.	
4934.5 <i>E 0318.9</i>	---Elbow.	39° 33.2' N 2° 38.0' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	13 4	1	Green and white column; 7.	
4935 <i>E 0319.5</i>	---N.	39° 33.2' N 2° 37.8' E	Fl.(2)R. period 10s	13 4	1	Dolphin.	
4936 <i>E 0318</i>	--Dique del Oeste, head.	39° 33.2' N 2° 38.4' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	62 19	7	Red round tower, white hut, red square daymark, white base; 42.	
4940 <i>E 0318.3</i>	---Outer elbow.	39° 33.0' N 2° 38.4' E	V.Q.(3)W. period 5s	52 16	5	E. CARDINAL BYB, tower; 33.	Obscured inside harbor. Siren: Mo.(P) ev. 30s (bl. 2s, si. 2s, bl. 6s, si. 2s, bl. 6s, si. 2s, bl. 2s, si. 8s). Radar reflector.
	--RACON		M(- -)		22		
4941 <i>E 0318.71</i>	---Ro-Ro/Lo-Lo terminal, NE. corner.	39° 32.9' N 2° 38.0' E	Fl.(2)R. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	13 4	1	Red post; 7.	Synchronized with 4942.
4942 <i>E 0318.7</i>	----SW. corner.	39° 32.9' N 2° 37.8' E	Fl.(3)R. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	13 4	1	Red post; 7.	Synchronized with 4941.
4944 <i>E 0318.6</i>	--Inner elbow.	39° 32.7' N 2° 37.9' E	V.Q.(6)+L.Fl.W. period 10s	52 16	5	S. CARDINAL YB, tower; 26.	Visible 225°-090°. Obscured inside the harbor.
4946 <i>E 0328.08</i>	---Muelle de Espera.	39° 33.9' N 2° 38.0' E	Fl.(2+1)R. period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 4.5s	20 6	1	Red column, green bands; 16.	
4948 <i>E 0328.3</i>	---Muelle de Amarres, NW. head.	39° 33.9' N 2° 37.9' E	Fl.(3)G. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	16 5	1	Green column; 13.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-ISLAS BALEARES							
4949 <i>E 0328.31</i>	--Marina, outer mole, NE corner.	39° 34.0' N 2° 37.8' E	Fl.(2)R. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	13 4	1	Red post; 10.	Fl.(2+1)R. 10s 3m 1M, Fl.R. 5s 3m 1M and Fl.(2)R. 3s 3m 1M lights mark wharfs close NE.
4950 <i>E 0328</i>	--Club Natico, No. 3 spur, head.	39° 33.9' N 2° 38.1' E	Fl.(2)R. period 14s fl. 1s, ec. 3s fl. 1s, ec. 9s	13 4	1	Red column; 16.	
4951 <i>E 0326.2</i>	--Muelle de Armamento, head.	39° 34.0' N 2° 38.3' E	Fl.(3)R. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	20 6	1	Red column; 13.	
4951.5 <i>E 0326</i>	--Muelle Pascadores, head.	39° 34.0' N 2° 38.4' E	Fl.(4)R. period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 8.5s	20 6	1	Red column; 13.	Visible 185°-085.5°.
4952 <i>E 0328.42</i>	---S. head.	39° 33.3' N 2° 37.7' E	Fl.Y. period 5s	16 5	1	Yellow column; 13.	
4960 <i>E 0328.38</i>	--Muelle de la Pedrera, N. head.	39° 33.6' N 2° 37.8' E	Fl.(4)R. period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	17 5	3	Red column; 13.	
4964 <i>E 0328.39</i>	---S. head.	39° 33.4' N 2° 37.8' E	Fl.(2+1)R. period 12s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s fl. 0.5s, ec. 6.5s	16 5	1	Red column, green band; 13.	
4968 <i>E 0328.34</i>	--La Coarentena, T-head, N. end.	39° 33.7' N 2° 37.8' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	17 5	1	Red post; 13.	
4972 <i>E 0328.36</i>	---S. end.	39° 33.7' N 2° 37.8' E	Fl.(2+1)R. period 14.5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s fl. 0.5s, ec. 9s	7 2	1	Red metal column, green band; 13.	
4976 <i>E 0322</i>	--Dique de Levante, SW. corner.	39° 33.5' N 2° 38.1' E	Fl.(2)G. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	20 6	5	Green round tower; 10.	Synchronized with 4980.
4980 <i>E 0322.2</i>	---NW. corner.	39° 33.7' N 2° 38.0' E	Fl.(2)G. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	13 4	3	Green column; 20.	Synchronized with 4976. Fl.(3)G. 9s 7m 1M and Fl.(3)G. 9s 7m 1M mark ends of wharf 318 meters NE. Fl.(4)G. 11s 7m 1M and Fl.(4)G. 11s 7m 1M mark ends of wharf 578 meters NE. Fl.G. 3s 7m 1M and Fl.G. 3s 7m 1M mark ends of wharf 850 meters NE.
4996 <i>E 0328.32</i>	--Jonquet, jetty, head.	39° 34.1' N 2° 37.9' E	Fl.(2+1)R. period 10s fl. 1s, ec. 1s fl. 1s, ec. 3s fl. 1s, ec. 3s	10 3	1	Red metal column, green band; 7.	
5000 <i>E 0328.7</i>	-Cala Nova, Yacht school, S. mole.	39° 33.0' N 2° 36.0' E	Fl.(2)R. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	23 7	3	Red column, white base; 10.	
5002 <i>E 0328.8</i>	-Portals Nous, entrance.	39° 31.7' N 2° 33.8' E	Fl.(3)G. period 14s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 7s	30 9	4	Green tower on white hut, green triangular daymark, point up; 20.	Fl.(3)R. 14s 4m 3M light marks outer breakwater.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-ISLAS BALEARES							
5004 <i>E 0329.6</i>	-Portals Vells, mole, head.	39° 28.5' N 2° 31.3' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	16 5	5	Green round tower, white square base, green triangular daymark, point up; 13.	
5004.1 <i>E 0328.75</i>	--N. mole.	39° 33.0' N 2° 36.0' E	Fl.(2)G. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	23 7	3	Green column; 10.	
5006 <i>E 0329</i>	--Yacht Harbor Pier, head.	39° 31.5' N 2° 32.6' E	Fl.(4)G. period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	23 7	5	Green column on white base, green triangular daymark, point up; 20.	
5008 <i>E 0330</i>	-Cap de Cala Figuera.	39° 27.5' N 2° 31.4' 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	148 45	22	White round tower, black diagonal stripes; 79.	Visible 293°-094°. Aeromarine light. Siren: 2 bl. ev. 12s (bl. 2s, si. 2s, bl. 2s, si. 6s).
5012 <i>E 0332</i>	-Isla del Toro, on islet.	39° 27.8' N 2° 28.4' E	Fl.W. period 5s fl. 0.4s, ec. 4.6s	102 31	8	White conical tower.	
5012.5 <i>E 0332.5</i>	-Puerto Deportivo, Puerto Adriano, mole, head.	39° 29.4' N 2° 28.8' E	Fl.(2)G. period 6.5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4.5s	20 6	5	Green post, white top; 7.	Fl.(2)R. 10s 4m 3M light close E.
5013 <i>E 0333</i>	-Santa Ponza, breakwater, head.	39° 30.9' N 2° 27.9' E	Fl.(3)G. period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4.5s	33 10	5	Green column on white hut; 16.	
5014 <i>E 0333.2</i>	--Punta de Caleta.	39° 30.8' N 2° 28.0' E	Fl.(3)R. period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4.5s	33 10	3	Red column on red base; 13.	
5016 <i>E 0334</i>	-Cabo de la Mola.	39° 31.9' N 2° 21.9' E	Fl.(1+3)W. period 12s fl. 0.5s, ec. 3.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 3.5s	420 128	12	White column, black bands, on white square tower; 33.	Visible 304°24'-147°.
5020 <i>E 0336</i>	-Puerto de Andraitx, mole, W. head.	39° 32.6' N 2° 22.8' E	Fl.(4)R. period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	39 12	5	Truncated conical stone tower, red top; 30.	
5022 <i>E 0336.8</i>	--Breakwater, extremity.	39° 32.8' N 2° 23.2' E	Fl.(4)R. period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	20 6	1	Red column; 10.	
5024 <i>E 0336.6</i>	--New inner breakwater, head.	39° 32.8' N 2° 23.1' E	Fl.(3)R. period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4.5s	20 6	1	Red tower on white hut, red square daymark; 13.	
5028 <i>E 0337</i>	--Inner mole, head.	39° 32.8' N 2° 23.2' E	Fl.(4)G. period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	22 7	1	Octagonal green tower, white base; 13.	
-Isla Dragonera:							
5030 <i>E 0286</i>	--Isla Mitjana.	39° 35.1' N 2° 20.5' E	Q.(9)W. period 15s	33 10	3	W. CARDINAL YBY, post, topmark; 16.	

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SPAIN-ISLAS BALEARES							
5032 <i>E 0282</i>	--Cabo Liebeitx.	39° 34.5' N 2° 18.3' E	Fl.W. period 7.5s fl. 0.2s, ec. 7.3s	427 130	20	Masonry tower, building, red roof; 48.	Visible 313°-150°.
5036 <i>E 0284</i>	--Punta Tramontana.	39° 36.0' N 2° 20.4' E	Fl.(2)W. period 12s fl. 0.3s, ec. 2.7s fl. 0.3s, ec. 8.7s	219 67	14	Masonry tower, stone building, red tile; 49.	Visible 095°-230° and 346°-027°.
-Puerto de Soller:							
5040 <i>E 0289</i>	--Cap Gros.	39° 47.8' N 2° 40.9' E	Fl.(3)W. period 15s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 9.8s	394 120	19	White tower and house, red roof; 72.	Visible 054°-232°.
5044 <i>E 0288</i>	--Punta de la Creu, entrance, E. point.	39° 47.8' N 2° 41.4' E	Fl.W. period 2.5s fl. 0.5s, ec. 2s	115 35	10	White truncated conical tower, black bands; 43.	Visible 088°-160°.
5048 <i>E 0290</i>	-Entrance Range, front.	39° 47.6' N 2° 41.9' E	Q.R.	160 49	5	White round tower, aluminum diamond daymark; 23.	
5052 <i>E 0290.1</i>	--Rear, 36 meters 126°38' from front.	39° 47.6' N 2° 41.9' E	Iso.R. period 4s	196 60	5	White round tower, aluminum diamond daymark; 23.	
5056 <i>E 0291</i>	--Dique D.E., head.	39° 47.8' N 2° 41.6' E	Fl.R. period 4s	22 7	5	Red post; 6.	
5060 <i>E 0293</i>	--Muelle Comercial, elbow.	39° 47.9' N 2° 41.7' E	Fl.(2+1)G. period 10s		1	Green post, red stripe; 9.	
5064 <i>E 0293.2</i>	---Head.	39° 47.9' N 2° 41.8' E	Fl.(3)R. period 9s		1	Red post, red square; 9.	
5068 <i>E 0296</i>	-Cabo de Formenter.	39° 57.7' N 3° 12.7' 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	689 210	22	White tower, dwelling; 72.	Visible 085°-006°.
5072 <i>E 0298</i>	-Punta de la Avanzada.	39° 54.1' N 3° 06.7' E	Oc.(2)W. period 8s lt. 4.5s, ec. 1s lt. 1.5s, ec. 1s	95 29	15	White octagonal tower on rectangular dwelling; 59.	Visible 234°-272°.
5076 <i>E 0301</i>	--Dique Norte, outer spur, head.	39° 54.1' N 3° 05.2' E	Fl.(2)G. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	19 6	5	Green truncated conical tower, white base and top; 16.	Fl.(2)R. 8s 2m 3M light marks NW. breakwater entrance.
5077 <i>E 0299.5</i>	---Corner.	39° 54.3' N 3° 05.3' E	Q.(3)W. period 10s	10 3	3	E. CARDINAL BYB, post, topmark, 7.	
-El Puerto:							
5080 <i>E 0300.2</i>	--N. breakwater, head.	39° 54.3' N 3° 05.2' E	Fl.(3)R. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	7 2	1	Column on red house; 1.	Fl.(3)R. 9s 2m 1M light marks S. head.
5084 <i>E 0299</i>	--Inner mole, head.	39° 54.3' N 3° 05.1' E	Fl.(3)G. period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	16 5	1	Green truncated conical tower, white base and top; 13.	
5086 <i>E 0303.7</i>	-Punta Sabate.	39° 53.6' N 3° 11.6' E	Fl.(3)W. period 13s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 6s	154 47	5	White round tower, black band; 39.	
5090 <i>E 0303</i>	-Puerto de Bonaire, dike, head.	39° 52.1' N 3° 08.7' E	Fl.(3)R. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	16 5	5	Red column; 9.	

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SPAIN-ISLAS BALEARES							
5091 <i>E 0303.2</i>	--Muelle de Ribera.	39° 52.1' N 3° 08.7' E	Fl.(3)G. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	16 5	3	Green column on white square base, white top; 13.	
PUERTO DE ALCUDIA							
5096 <i>E 0306</i>	-Muelle commercial, head.	39° 49.9' N 3° 08.5' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	34 10	5	Green tower; 16.	
5097 <i>E 0306.5</i>	-Meulle de Poniente	39° 50.1' N 3° 08.3' E	Fl.(2+1)R. period 12s fl. 1s, ec. 1s fl. 1s, ec. 3s fl. 1s, ec. 5s	13 4	3	Red tower, green band; 10.	NW. pier marked by 2 Fl.(2)G. 6s 4m 1M lights.
5098 <i>E 0307</i>	--Muelle Viejo, head.	38° 50.3' N 3° 08.1' E	Fl.(4)G. period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	13 4	1	Green pyramidal tower; 10.	
5099 <i>E 0306.6</i>	--Club de Amigos de Alcudia, dike, head.	39° 50.2' N 3° 08.1' E	Fl.(2)R. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	16 5	3	Red pyramidal tower; 10.	
5100 <i>E 0304</i>	-Isla Aucanada, Bahía de Alcudia, N. side.	39° 50.2' N 3° 10.3' E	Fl.W. period 5s fl. 1s, ec. 4s	82 25	11	White tower and dwelling; 49.	Obscured 289°-320°.
5104 <i>E 0307.1</i>	-Ca'n Picafort, pier, head.	39° 46.0' N 3° 09.5' E	Fl.(2)R. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	26 8	5	Red metal tower; 13.	Fl.(2)G. 6.5s marks head of contradike.
5105 <i>E 0307.16</i>	-Escuy C'an Barret.	39° 46.1' N 3° 09.5' E	Q.(3)W. period 10s	10 3	4	E. CARDINAL BYB, beacon; 10.	
5107 <i>E 0307.17</i>	-Puerto Deportivo Serranova, breakwater, head.	39° 44.4' N 3° 13.5' E	Fl.(3)R. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	20 6	5	Red tower; 7.	
5107.5 <i>E 0307.19</i>	-Inner breakwater.	39° 44.4' N 3° 13.4' E	Oc.G. period 8s lt. 5s, ec. 3s	10 3	1	Green pylon on base; 7.	
5108 <i>E 0307.2</i>	-Colonia de San Pedro, breakwater, head.	39° 44.3' N 3° 16.5' E	Fl.(4)R. period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	20 6	5	Red round tower; 10.	
5116 <i>E 0308</i>	-Cabo de Pera.	39° 43.0' N 3° 28.7' E	Fl.(2+3)W. period 20s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 6.5s fl. 0.2s, ec. 1.8s fl. 0.2s, ec. 1.8s fl. 0.2s, ec. 6.6s	249 76	16	White tower, dwelling, red roof; 69.	Visible 148°-010°.
5120 <i>E 0308.2</i>	-Cala Ratjada, mole, head.	39° 42.6' N 3° 27.9' E	Fl.G. period 2s fl. 0.2s, ec. 1.8s	39 12	5	Green tower on hut, green triangular daymark, point up; 10.	
5128 <i>E 0308.7</i>	--Dique Norte, head.	39° 36.8' N 3° 23.6' E	Fl.(2)G. period 6s fl. 0.4s, ec. 1.6s fl. 0.4s, ec. 3.6s	16 5	3	Round tower on white hut, green triangular daymark, point up.	
5132 <i>E 0308.6</i>	-Cala Bona, Dique Sur, head.	39° 36.8' N 3° 23.6' E	Fl.(2)R. period 6s fl. 0.4s, ec. 1.6s fl. 0.4s, ec. 3.6s	16 5	5	Round tower on white hut, red square; 7.	

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SPAIN-ISLAS BALEARES							
5136 <i>E 0309</i>	-Cala Manacor (Porto Cristo), at entrance.	39° 32.2' N 3° 20.5' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	65 20	7	Tower, black and white stripes; 18.	
5140 <i>E 0309.4</i>	--Punta des Pelats, mole, head.	39° 32.5' N 3° 20.3' E	Fl.(3)R. period 8.5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 5s	16 5	3	Red octagonal tower; 7.	
5144 <i>E 0310</i>	-Punta de Farola, on Puerto Colom, E. entrance point.	39° 24.9' N 3° 16.3' E	Fl.(2)W. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	137 42	10	Tower, black and white bands, white house with red roof; 82.	Visible 207°-006°.
5148 <i>E 0310.4</i>	-Punta de la Bateria.	39° 25.0' N 3° 16.2' E	Fl.(4)R. period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	39 12	5	Red tower on white hut, red square; 24.	
5152 <i>E 0311</i>	--Mole, SE. corner.	39° 25.3' N 3° 15.8' E	Fl.(3)R. period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4.5s	15 5	1	Red column on white hut, red square; 8.	
5154 <i>E 0311.2</i>	--Punta de sa Sinia, breakwater, head.	39° 25.5' N 3° 15.8' E	Fl.(4)R. period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	10 3	1	Red column; 7.	
5156 <i>E 0311.4</i>	-Cala Llonga.	39° 22.1' N 3° 14.1' E	Fl.(1+2)W. period 20s fl. 1s, ec. 4s fl. 1s, ec. 2s fl. 1s, ec. 11s	56 17	7	White column, black stripes; 18.	
5160 <i>E 0311.8</i>	-Puerto Petro, on Punta Sa Torre.	39° 21.4' N 3° 13.0' E	Fl.(3+1)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s fl. 0.5s, ec. 3s	72 22	7	Tower, white and black stripes; 30.	
5162 <i>E 0311.9</i>	--Dique Calo des Moix, head.	39° 21.7' N 3° 12.8' E	Fl.(2)R. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	23 7	5	Red tower; 10.	
5164 <i>E 0312.2</i>	--Mole, head.	39° 21.8' N 3° 12.8' E	Fl.(2+1)G. period 12s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 2.4s fl. 0.8s, ec. 6s	20 6	3	Green round tower, red band on white square base; 16.	
5168 <i>E 0312.3</i>	-Punta Sa Platja, 640 meters 352° from mole, head.	39° 21.8' N 3° 12.8' E	Q.G.	21 6	3	STARBOARD (A) G, beacon, topmark; 13.	
5172 <i>E 0312.6</i>	-Torre d'en Beu, on Cala Figuera de Santany, entrance, N. side.	39° 19.8' N 3° 10.7' E	Fl.W. period 5s fl. 1s, ec. 4s	105 32	12	Black and white striped octagonal tower; 21.	
5176 <i>E 0313</i>	-Jetty, head.	39° 20.0' N 3° 10.0' E	Fl.(3)R. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	21 6	5	Red column on red hut; 16.	
5180 <i>E 0366</i>	Isla del Aire.	39° 48.0' N 4° 17.7' E	Fl.W. period 5s fl. 0.2s, ec. 4.8s	174 53	18	Tower, black and white bands, white house; 125.	Obscured 111°-197°.
5182 <i>E 0367</i>	-Bajo es Caragol.	39° 48.5' N 4° 15.2' E	Q.(6)+L.Fl.W. period 15s	33 10	5	S. CARDINAL YB, beacon, topmark.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-ISLAS BALEARES							
ISLA DE MENORCA:							
5184 <i>E 0342</i>	-Cabo D'Artrutx.	39° 55.4' N 3° 49.5' E	Fl.(3)W. period 10s fl. 0.2s, ec. 1.8s fl. 0.2s, ec. 1.8s fl. 0.2s, ec. 5.8s	148 45	18	White tower, black bands, on white hut; 111.	Visible 267°-158°.
5188 <i>E 0344</i>	-Ciudadela, Calo Frares, W. side of entrance.	39° 59.8' N 3° 49.4' E	Fl.W. period 6s fl. 0.3s, ec. 5.7s	69 21	14	White tower, black bands on white house; 43.	Visible 004°-094°.
5192 <i>E 0345</i>	--Punta El Bancal, on N. bank about 173 meters 061° from Ciudadela.	39° 59.9' N 3° 49.5' E	Fl.(3)R. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	33 10	5	Red tower on white hut, red square; 13.	
5196 <i>E 0345.4</i>	--San Nicolas, on S. bank 325 meters 067°36' from Ciudadela.	39° 59.9' N 3° 49.5' E	Fl.(3)G. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	33 10	3	White quadrangular tower, green triangular daymark, point up; 13.	
5200 <i>E 0345.6</i>	--Sa Trona, on S. bank 537 meters 062°06' from Ciudadela.	40° 00.0' N 3° 49.8' E	Fl.(4)G. period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	24 7	1	Green column beside white hut, green triangular daymark, point up; 13.	
5204 <i>E 0345.9</i>	--Cala d'en Busquets, E. point, 600 meters 052° from Ciudadela.	40° 00.0' N 3° 49.8' E	Dir.Fl.W.R.G. period 5s fl. 1s, ec. 4s	29 9	W. 5 R. 3 G. 3	White square tower; 11.	G. 042°-044°, W.-046°, R.-048°.
5208 <i>E 0345.8</i>	---N. bank, 654 meters 057°24' from Ciudadela.	40° 00.0' N 3° 49.8' E	Fl.(4)R. period 12s fl. 0.7s, ec. 1s fl. 0.7s, ec. 1s fl. 0.7s, ec. 1s fl. 0.7s, ec. 6.2s	35 11	3	Red column on white tower, red rectangular daymark; 14.	
5212 <i>E 0346.4</i>	--Baliza de la Muralla.	40° 00.2' N 3° 50.2' E	Dir.Oc.(2)W.R.G. period 9.5s	28 9	W. 5 R. 3 G. 3	White square tower; 19.	R. 062°24'-062°54', W.-063°24', G.-063°54'.
5216 <i>E 0346.2</i>	--Varadero, on N. bank 832 meters 059°12' from Ciudadela.	40° 00.1' N 3° 49.9' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	20 6	2	Red tower on white hut, red square daymark; 16.	
5220 <i>E 0348</i>	-Punta Nati.	40° 03.1' N 3° 49.5' E	Fl.(3+1)W. period 20s fl. 0.4s, ec. 2.1s fl. 0.4s, ec. 2.1s fl. 0.4s, ec. 7.1s fl. 0.4s, ec. 7.1s	138 42	18	Hexagonal masonry tower with dwelling; 62.	Visible 039°-162°.
5224 <i>E 0350</i>	-Cabo de Caballeria.	40° 05.4' N 4° 05.6' E	Fl.(2)W. period 10s fl. 0.1s, ec. 1.9s fl. 0.1s, ec. 7.9s	310 94	22	White tower, dwelling; 49.	Visible 074°-292°.
-RACON			B(- • • •) period 72s				
5226 <i>E 0350.5</i>	-Cap de sa Pared.	40° 03.8' N 4° 08.0' E	Fl.W. period 2s fl. 0.5s, ec. 1.5s	95 29	8	Tower on hut, white and black bands.	
5228 <i>E 0351</i>	-Puerto de Fornells Range, front.	40° 02.9' N 4° 08.2' E	Q.R.	45 14	7	White pyramidal tower; 20.	A Fl.G. light is located on head of Dique de Levante.
5232 <i>E 0351.1</i>	--Rear, 110 meters 178°30' from front.	40° 02.9' N 4° 08.2' E	Iso.R. period 4s	76 23	7	White pyramidal tower; 30.	
5236 <i>E 0352</i>	-Cabo Favaritx.	39° 59.8' N 4° 16.0' E	Fl.(1+2)W. period 15s fl. 0.3s, ec. 5.7s fl. 0.3s, ec. 2.7s fl. 0.3s, ec. 5.7s	154 47	16	Tower, white and black stripes, attached to white dwelling; 92.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-ISLAS BALEARES							
5238 <i>E 0355</i>	-Punta del Espero.	39° 52.6' N 4° 19.6' E	Fl.(1+2)W. period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 10s	167 51	8	White round tower, black bands; 36.	
	-Puerto de Mahon:						
5240 <i>E 0354</i>	--Punta San Carlos.	39° 51.9' N 4° 18.4' E	Oc.(2)W. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	72 22	12	White round tower, black bands, white square base; 49.	Obscured 143°-183°.
5252 <i>E 0356</i>	--Punta Lazareto.	39° 52.6' N 4° 18.2' E	Fl.(2)G. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	42 13	1	Round white tower on square base, green triangular daymark, point up; 20.	
5256 <i>E 0358</i>	--Punta de Ne Cafayes (Cala Fonts) (Villacarlos).	39° 53.0' N 4° 17.7' E	Fl.(3)R. period 9s	27 8	1	Red tower on white hut, red square.	
5260 <i>E 0359</i>	--Isla Plana de Mahan.	39° 53.0' N 4° 18.0' E	Fl.(3)G. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	30 9	1	Green round tower; 20.	
5264 <i>E 0360</i>	--Punta de Villacarlos.	39° 53.1' N 4° 17.4' E	Fl.(4)R. period 11s	34 10	1	Red tower on white hut, red square; 12.	
5268 <i>E 0361</i>	--Isla del Hospital.	39° 53.2' N 4° 17.3' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	43 13	1	Green tower on white hut, green triangular daymark, point up; 42.	
5270 <i>E 0361.2</i>	---Floating dock, head.	39° 53.2' N 4° 17.1' E	Fl.(4)Y. period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	7 2	1	Yellow X on yellow 4-sided column; 3.	
5272 <i>E 0361.4</i>	---On Punta Sa Cova, N. part.	39° 53.3' N 4° 17.3' E	Oc.R. period 4s lt. 3s, ec. 1s	52 16	1	Red round tower; 20.	
5276 <i>E 0361.6</i>	--Punta de Sa Bassa.	39° 53.4' N 4° 17.4' E	Oc.G. period 4s	31 9	1	Green tower on white hut, green triangular daymark, point up; 10.	
5277 <i>E 0363.67</i>	--Muelle de Cos Nou, RoRo, W. head.	39° 53.7' N 4° 15.5' E	Fl.(2)G. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	10 3	1	Green pyramid on green round column; 3.	
5280 <i>E 0362.4</i>	--Isla del Pinta, S. point.	39° 53.6' N 4° 16.3' E	Fl.(2)G. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	13 4	1	STARBOARD (A) G, metal post, topmark; 10.	
5284 <i>E 0362</i>	--Punta de Cala Figuera.	39° 53.5' N 4° 16.6' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	23 7	1	Post, red square daymark; 16.	
5288 <i>E 0364</i>	--Cala Taulera, I. Lazaretto.	39° 52.7' N 4° 18.4' E	Fl.(2)R. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	23 7	1	Red round tower; 20.	
5292 <i>E 0364.2</i>	--Canal de Alfonso XII, E. head.	39° 52.9' N 4° 18.3' E	Fl.(3)R. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	23 7	1	Red round tower; 20.	
5296 <i>E 0364.4</i>	---W. head.	39° 52.9' N 4° 18.2' E	Fl.(4)R. period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	23 7	1	Red round tower; 20.	

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SPAIN-MEDITERRANEAN SEA							
5300 <i>E 0176</i>	Cabo de la Nao.	38° 43.8' N 0° 14.1' E	Fl.W. period 5s fl. 0.2s, ec. 4.8s	400 122	23	White octagonal tower, dwelling; 66.	Visible 190°-049°.
JAVEA:							
5304 <i>E 0179</i>	-Outer mole, head.	38° 47.6' N 0° 11.3' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	36 11	5	Green truncated tower, white base; 20.	
5308 <i>E 0179.4</i>	-Inner mole, head.	38° 47.7' N 0° 11.2' E	Fl.(2)R. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	30 9	4	Red truncated tower, white base; 20.	
5312 <i>E 0180</i>	Cabo de San Antonio.	38° 48.1' N 0° 11.8' 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	574 175	26	White tower and dwelling; 56.	Visible over an arc of 240°.
DENIA:							
5316 <i>E 0186</i>	-Range, pier, head, front.	38° 50.3' N 0° 06.9' E	Fl.R. period 2.5s fl. 1s, ec. 1.5s	33 10	4	Metal post with platform; 33.	Visible 198°-258°.
5320 <i>E 0186.1</i>	--Rear, 150 meters 228° from front.	38° 50.1' N 0° 06.8' E	Oc.R. period 6s lt. 4.5s, ec. 1.5s	46 14	4	Metal post with platform; 33.	Visible 198°-258°.
5324 <i>E 0184</i>	-Dique Norte, head.	38° 50.8' N 0° 07.6' E	Fl.(3)G. period 10.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 6s	43 13	5	Green hexagonal tower; 23.	
5328 <i>E 0187</i>	--elbow.	38° 50.6' N 0° 07.6' E	Fl.(4)G. period 11s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6s	13 4	4	Green hexagonal tower; 10.	
5329 <i>E 0187.5</i>	--Inner jetty, head.	38° 50.5' N 0° 07.1' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	13 4	3	Green hexagonal tower; 10.	Visible 226°-134°30'.
5332 <i>E 0185</i>	-Dique Sur, head.	38° 50.6' N 0° 07.4' E	Fl.(3)R. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6.5s	30 9	5	Red hexagonal tower; 10.	
5333 <i>E 0188</i>	--Elbow of Dique Sur.	38° 50.5' N 0° 07.3' E	Fl.(4)R. period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	16 5	4	Red hexagonal tower; 10.	
5334 <i>E 0188.5</i>	---Jetty, head.	38° 50.6' N 0° 07.2' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s			Red hexagonal tower.	
5338 <i>E 0190</i>	-Club Nautico de Oliva, shelter dique.	38° 55.9' N 0° 05.6' W	Fl.(2)G. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	23 7	5	White and green triangular tower; 13.	
5338.5 <i>E 0190.2</i>	--Contradique.	38° 55.7' N 0° 05.7' W	Fl.(2)R. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	23 7	3	White and red triangular tower; 13.	

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SPAIN-MEDITERRANEAN SEA							
GANDIA:							
5340 <i>E 0194</i>	-N. mole, head.	38° 59.8' N 0° 08.7' W	Fl.(1)G. period 5s fl. 1s, ec. 4s	49 15	7	Green triangular concrete tower; 39.	
5348 <i>E 0196</i>	-S. mole, head.	38° 59.8' N 0° 09.1' W	Fl.(2)R. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	16 5	3	Red cylindrical tower on concrete base; 13.	
5352 <i>E 0197</i>	Cullera, N. jetty, head.	39° 09.1' N 0° 14.0' W	Fl.(4)G. period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	33 10	5	Green tower on green base; 23.	
5356 <i>E 0197.2</i>	-S. jetty, head.	39° 09.0' N 0° 14.1' W	Fl.(4)R. period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	33 10	3	Red tower on red base; 23.	
5360 <i>E 0198</i>	Cabo Cullera.	39° 11.2' N 0° 13.0' W	Fl.(3)W. period 20s fl. 0.3s, ec. 3.7s fl. 0.3s, ec. 3.7s fl. 0.3s, ec. 11.7s	92 28	19	White round tower on round dwelling; 52.	Aeromarine light. AIS.
5362 <i>E 0199</i>	El Perello, E. jetty, head.	39° 16.7' N 0° 16.2' W	Fl.(3)G. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	26 8	4	Green tower; 10.	
5362.2 <i>E 0199.2</i>	-W. jetty, head.	39° 16.7' N 0° 16.3' W	Fl.(3)R. period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 6.5s	23 7	4	Red tower; 16.	
5364 <i>E 0209</i>	-Manises AVIATION LIGHT.	39° 29.6' N 0° 28.2' W	Al.Fl.W.G. period 4s	213 65	15	Control tower; 49.	Occasional.
VALENCIA:							
5365 <i>E 0199.9</i>	-N. Entrance, breakwater, head.	39° 27.8' N 0° 18.5' W	Q.R. period 1.2s	30 9	5	Red truncated pyramidal tower; 10.	
5366 <i>E 0199.82</i>	---Middle.	39° 27.5' N 0° 17.7' W	V.Q.W.	52 16	3	N. CARDINAL BY, tower, topmark.	Visible 115°-295°.
5366.1 <i>E 0199.81</i>	---NE. corner.	39° 27.3' N 0° 17.2' W	V.Q.(3)W. period 5s			E. CARDINAL BYB, tower, topmark.	Visible 115°-025°.
5366.2 <i>E 0200.2</i>	---SE. corner, head.	39° 26.7' N 0° 17.5' W	Fl.(2)G. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	56 17	5	Green square tower on white round base; 16.	
5368 <i>E 0200</i>	-Dique del Norte.	39° 26.9' N 0° 18.1' W	Fl.(4+1)W. period 20s fl. 0.4s, ec. 1.8s fl. 0.4s, ec. 1.8s fl. 0.4s, ec. 1.8s fl. 0.4s, ec. 6.3s fl. 0.4s, ec. 6.3s	98 30	20	Pyramidal masonry tower, octagonal base; 72.	AIS.
5368.5 <i>E 0200.5</i>	--Muelle Interior, S. corner, head.	39° 26.1' N 0° 18.4' W	Fl.(1)G. period 5s fl. 1s, ec. 4s	20 6		Green round tower on conical base; 13.	
5369 <i>E 0200.3</i>	-Dique del Este, outer breakwater, elbow.	39° 26.7' N 0° 17.9' W	Fl.(2)R. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	39 12	5	Red round tower on conical base; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-MEDITERRANEAN SEA							
5370 <i>E 0200.1</i>	--Head.	39° 27.1' N 0° 17.7' W	Fl.(3)R. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	30 9	3	Red round tower on conical base; 10.	
5372 <i>E 0200.4</i>	-Nuevo Dique del Este, head.	39° 26.0' N 0° 18.2' W	Fl.G. period 5s fl. 1s, ec. 4s	69 21	5	Round green post on white base; 30.	
5374 <i>E 0201.15</i>	-Muelle Darsena Sur, breakwater, head.	39° 26.1' N 0° 18.9' W	Fl.(3)R. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	43 13	3	Red round tower; 13.	
5376 <i>E 0201.5</i>	-Nuevo Muelle Sur.	39° 26.4' N 0° 19.3' W	Fl.(3)G. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	26 8	1	Green round tower on conical base; 20.	
5380 <i>E 0201.2</i>	-Dique del Este, elbow.	39° 26.5' N 0° 18.6' W	Q.R.	16 5	1	Round tower; 10.	
5384 <i>E 0201.4</i>	--S. head.	39° 26.5' N 0° 18.7' W	Fl.(2)G. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	20 6	3	Green column on conical base; 16.	
5388 <i>E 0202</i>	-Dique Del Sur, E. head.	39° 26.6' N 0° 19.0' W	Fl.(4)R. period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	33 10	3	Red round tower on conical base; 16.	
5400 <i>E 0203.4</i>	-Mulle de Levante, head.	39° 26.8' N 0° 18.9' W	Fl.(2+1)G. period 14.5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s fl. 0.5s, ec. 9s	20 6	3	Green tower, red band; 10.	
5404 <i>E 0204</i>	-Espigon No. 1, head, NE. corner.	39° 27.0' N 0° 19.2' W	Fl.R. period 3s fl. 0.5s, ec. 2.5s	20 6	1	Red round tower on truncated conical base; 13.	
5408 <i>E 0204.2</i>	--SE. corner.	39° 26.9' N 0° 19.2' W	Fl.(4)G. period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	19 6	1	Green round tower on truncated conical base; 13.	
5412 <i>E 0205</i>	-Muelle de Poniente, head.	39° 27.3' N 0° 19.3' W	Fl.(2+1)R. period 14.5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s fl. 0.5s, ec. 9s	16 5	1	Red round tower, green band on truncated conical base; 10.	
5421.6 <i>E 0201.11</i>	--E. head.	39° 25.8' N 0° 18.6' W	Fl.(2)R. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	69 21	3	Red column on white base; 30.	
5422 <i>E 0208.6</i>	-Nautical Club, E. Dique.	39° 25.5' N 0° 19.5' W	Fl.(2)G. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	30 9	3	Green round column on conical base; 13.	Fl.(3)G. shown on pier 200 meters WNW.
5423 <i>E 0208.65</i>	--Contradique.	39° 25.4' N 0° 19.4' W	Fl.(2)R. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	16 5	1	Red round column on conical base.	Fl.(4)G. and Fl.(3)R. mark pier heads in harbor.
5424 <i>E 0209.6</i>	-Port Soplaya, S. head.	39° 30.6' N 0° 19.1' W	Fl.(3)R. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	26 8	4	Red and white round tower; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-MEDITERRANEAN SEA							
5424.5 <i>E 0209.7</i>	--NE. head.	39° 30.6' N 0° 19.0' W	Fl.(3)G. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	30 9	4	Green and white round tower; 16.	
5425 <i>E 0210</i>	-Puerto Deportivo Puebla de Farnals.	39° 33.5' N 0° 17.0' W	Fl.(2)G. period 5s fl. 0.5s, ec. 0.7s fl. 0.5s, ec. 3.3s	30 9	5	Green round tower on concrete hut; 16.	Fl.R. 3.5s shown from S. head of contradique.
SAGUNTO:							
5425.5 <i>E 0210.8</i>	-Contradike, S. head.	39° 37.7' N 0° 12.9' W	Q.(3)W. period 10s fl. 0.2s, ec. 0.8s fl. 0.2s, ec. 0.8s fl. 0.2s, ec. 7.8s	56 17	3	Black truncated tower, yellow band.	
5425.6 <i>E 0211</i>	--Corner.	39° 38.0' N 0° 12.7' W	Fl.R. period 5s fl. 0.5s, ec. 4.5s	56 17	3	Red truncated conical tower; 13.	
5425.7 <i>E 0212.1</i>	--N. head.	39° 38.3' N 0° 12.7' W	Fl.(2)R. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s		3	Red truncated conical tower; 16.	
5427 <i>E 0210.75</i>	-Breakwater, head.	39° 37.8' N 0° 12.3' W	Fl.G. period 5s fl. 0.5s, ec. 4.5s	66 20	5	Green and white round column; 16.	
5429 <i>E 0210.9</i>	--W. side.	39° 38.0' N 0° 12.4' W	Q.G.	23 7	2	Green truncated conical tower; 13.	
5432 <i>E 0214</i>	--Corner.	39° 38.8' N 0° 12.8' W	Fl.R. period 5s fl. 0.5s, ec. 4.5s	20 6	3	Red round tower on truncated conical base; 13.	
5433 <i>E 0212.2</i>	--SE. head.	39° 38.6' N 0° 12.7' W	Fl.(2+1)R. period 14.5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s fl. 0.5s, ec. 9s	26 8	3	Red and green round tower on conical base.	
5440 <i>E 0214.6</i>	-Darsena Pesquera, breakwater, head.	39° 39.1' N 0° 12.7' W	Fl.(2)G. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	20 6	1	Green round tower; 13.	
5442 <i>E 0214.7</i>	--Contradike, head.	39° 39.2' N 0° 12.6' W	Fl.(2)R. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	20 6	1	Red round tower, conical base; 13.	
5448 <i>E 0212.6</i>	--Dolphin, 73 meters SE.	39° 38.7' N 0° 11.6' W	Q.(3)W. period 10s	39 12	5	E. CARDINAL BYB, tower, topmark; 20.	
-Puerto de Siles:							
5449 <i>E 0217</i>	--Breakwater, head.	39° 40.4' N 0° 12.0' W	Fl.G. period 4s fl. 0.5s, ec. 3.5s	23 7	6	Green column; 10.	
5449.5 <i>E 0217.2</i>	---Corner of breakwater.	39° 40.4' N 0° 12.0' W	Fl.(3)G. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	13 4	3	Green column; 7.	
5450 <i>E 0217.4</i>	--Contradike, S. head.	39° 40.4' N 0° 12.0' W	Fl.R. period 4s fl. 0.5s, ec. 3.5s	16 5	4	Red column; 10.	
5450.5 <i>E 0217.5</i>	---N. head.	39° 40.4' N 0° 12.1' W	Fl.(2)R. period 5s fl. 0.5s, ec. 1s	13 4	3	Red conical turret.	

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SPAIN-MEDITERRANEAN SEA							
5452 E 0216	Cabo Canet.	39° 40.5' N 0° 12.5' W	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	108 33	20	Round tower and dwelling; 98.	AIS.
5454 E 0218	Nules.	39° 49.7' N 0° 06.5' W	Oc.(2)W. period 11s	125 38	14	Square masonry tower; 118.	
5456 E 0219	-Dique de Levante, head.	39° 51.2' N 0° 04.1' W	Fl.(2)G. period 8s fl. 1s, ec. 1.5s fl. 1s, ec. 4.5s	39 12	5	Green tower; 26.	Q.(3)W. 3M marks end of sand retention jetty 0.3 mile NNE.
5460 E 0220	--Muelle Transversal, head.	39° 51.4' N 0° 04.2' W	Fl.(3)G. period 10s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	26 8	3	Green tower; 20.	
5464 E 0221	-Dique de Poniente, head.	39° 51.3' N 0° 04.2' W	Fl.(2)R. period 8s	33 10	3	Red structure on white hut; 26.	
REFINERIA DE CASTELLON:							
5476 E 0224	-Terminal platform.	39° 56.7' N 0° 01.6' E	Oc.(2)Y. period 14s lt. 8s, ec. 2s lt. 2s, ec. 2s	42 13	4	Yellow post; 20.	Siren: Mo.(U)
CASTELLON DE LA PLANA:							
5480 E 0226	-Faro de Castellon.	39° 58.1' N 0° 01.7' E	Fl.W. period 8s fl. 0.3s, ec. 7.7s	105 32	14	White round tower; 89.	
5482 E 0226.1	--Dique de Levante, SW. head.	39° 57.7' N 0° 01.6' E	Fl.(4)G. period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	43 13	5	Green round tower; 33.	
5483 E 0226.5	-E. breakwater, N. corner.	39° 58.1' N 0° 01.9' E	Q.W.	23 7	5	N. CARDINAL BY, tower, topmark.	
5484 E 0229.3	-S. head.	39° 58.1' N 0° 01.2' E	Oc.G. period 5s lt. 4s, ec. 1s	16 5	2	Green truncated pyramidal tower.	
5486 E 0229.4	-Slipway.	39° 58.1' N 0° 01.1' E	Fl.(3)R.	13 4	3	Red tower; 10.	
5488 E 0226.2	-Muelle Transversal, S. corner.	39° 58.2' N 0° 01.3' E	Fl.G.	20 6	3	Green tower; 13.	
5492 E 0226.4	--Center of S. face.	39° 58.2' N 0° 01.2' E	Fl.(2)G.	16 5	3	Green tower; 10.	
5496 E 0229.2	-Darsen Pesquera, entrance, W. side.	39° 58.1' N 0° 01.2' E	Fl.(2+1)R. period 12s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s fl. 0.5s, ec. 6.5s	15 5	3	Red tower, green band; 10.	
5504 E 0222	Islas Columbretes.	39° 53.9' N 0° 41.2' E	Fl.(3+1)W. period 22s fl. 0.2s, ec. 2.6s fl. 0.2s, ec. 2.6s fl. 0.2s, ec. 8s fl. 0.2s, ec. 8s	279 85	21	White conical tower, dwelling; 67.	
RACON							
			C(- • - •) period 70s			2	
5508 E 0222.2	-Punta Michorn.	39° 53.6' N 0° 41.2' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	160 49	4	White octagonal tower; 19.	

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SPAIN-MEDITERRANEAN SEA							
5512 E 0222.4	-Punta Norte.	39° 54.0' N 0° 41.2' E	Fl.(2)R. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 6.5s	219 67	4	White octagonal tower; 19.	
5514 E 0229.7	Puerto de Oropesa, breakwater, head.	40° 04.4' N 0° 08.1' E	Fl.(3)G. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	26 8	5	Green tower; 10.	
5516 E 0230	Cabo de Oropesa.	40° 05.0' N 0° 08.8' E	Fl.(3)W. period 15s fl. 0.3s, ec. 2.7s fl. 0.3s, ec. 2.7s fl. 0.3s, ec. 8.7s	79 24	21	White round tower on white building; 43.	
5518 E 0231.6	Cabo de Irta.	40° 15.8' N 0° 18.2' E	Fl.(4)W. period 18s	108 33	14	Square tower on white building; 92.	Visible 195°-057°.
5519 E 0231	Puerto las Fuentes.	40° 14.9' N 0° 17.3' E	Oc.G. period 4s	20 6	4	Green concrete column; 7.	
5520 E 0232	Peniscola.	40° 21.5' N 0° 24.5' E	Fl.(2+1)W. period 15s fl. 0.4s, ec. 2.6s fl. 0.4s, ec. 5.6s fl. 0.4s, ec. 5.6s	183 56	23	Octagonal tower, white dwelling; 36.	Visible 184°-040°. Reserve light range 12M.
5524 E 0234.4	-Fish pier, head.	40° 21.2' N 0° 24.2' E	F.R.	23 7	3	Red column; 20.	
5528 E 0234	-E. breakwater.	40° 21.2' N 0° 24.2' E	Fl.G. period 4s fl. 1s, ec. 3s	49 15	4	Green column; 23.	
5532 E 0238	Benicarlo, on E. breakwater, head.	40° 24.6' N 0° 26.2' E	Fl.(2)G. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	43 13	5	Green tower; 16.	
5536 E 0239	-On S. breakwater, head.	40° 24.7' N 0° 26.1' E	Fl.(3)R. period 9s	26 8	3	Red octagonal tower; 13.	Fl.(2)R. 6s 3M shown from SE. corner.
5540 E 0239.4	-Fish pier, head.	40° 24.8' N 0° 26.0' E	Fl.(2+1)G. period 15s	24 7	3	Green round tower; 10.	
5544 E 0244	Vinaroz, E. mole, head.	40° 27.5' N 0° 28.6' E	Fl.G. period 5s fl. 1s, ec. 4s	46 14	8	Green round tower; 33.	
5546 E 0244.5	--Inner T-jetty, head.	40° 27.7' N 0° 28.7' E	Fl.(2)G. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	20 6	3	Green octagonal tower; 10.	
5548 E 0248	-Transverse mole, head.	40° 27.9' N 0° 28.6' E	Fl.(3)G. period 9s	26 8	3	Green round tower; 20.	
5549 E 0248.5	-N. pier, head.	40° 28.0' N 0° 28.5' E	Fl.(2+1)R. period 14.5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s fl. 0.5s, ec. 9s	10 3	1	Red structure, green band; 7.	
5550 E 0246.5	-W. mole, NW. head.	40° 27.7' N 0° 28.5' E	Fl.(3)R. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	13 4	1	Red structure; 7.	
5551 E 0246.6	-W. mole, NE. head.	40° 27.7' N 0° 28.6' E	Fl.(2)R. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	16 5	1	Red structure; 7.	
5552 E 0246	-W. mole, head.	40° 27.8' N 0° 28.6' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	16 5	3	Red post; 10.	

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SPAIN-MEDITERRANEAN SEA							
5556 <i>E 0370.3</i>	-Darsena Departivo, Dique Sur, head.	40° 33.2' N 0° 32.0' E	Fl.(2)R. period 10s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	26 8	4	Red truncated pyramidal tower; 13.	
5560 <i>E 0370.35</i>	--Contradique de Levante, head.	40° 33.2' N 0° 32.0' E	Fl.G. period 4s fl. 1s, ec. 3s	23 7	3	Green truncated pyramidal tower; 10.	
5564 <i>E 0370.6</i>	Cement wharf.	40° 34.4' N 0° 33.4' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	26 8	3	White tower, red top; 7.	
5565 <i>E 0371</i>	-Inner mole, head.	40° 34.4' N 0° 33.0' E	Fl.(2+1)G. period 14s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 4s fl. 0.5s, ec. 8s	26 8	2	Green square tower, red band; 10.	
PUERTO DE LOS ALFAQUES:							
5568 <i>E 0370</i>	-Punta de la Bana, 183 meters from extremity.	40° 33.6' N 0° 39.8' E	Fl.(2)W. period 12s fl. 1s, ec. 2s fl. 1s, ec. 8s	89 27	12	White round tower, black bands; 85.	
5572 <i>E 0371.2</i>	-Punta Corballera.	40° 34.2' N 0° 36.3' E	Fl.W.G. period 3s fl. 0.3s, ec. 2.7s	43 13	W. 6 G. 4	Black round truncated tower; 40.	G. 000°-180°, W.-000°.
5576 <i>E 0373</i>	San Carlos de la Rapita, Punta Sanieta.	40° 36.5' N 0° 35.2' E	Oc.(4)R. period 10s	33 10	11	White round tower; 22.	
5580 <i>E 0374</i>	-Dique de Abrigo, head.	40° 36.6' N 0° 36.3' E	Fl.(2)R. period 8s fl. 1s, ec. 1.5s fl. 1s, ec. 4.5s	26 8	6	Red pyramidal tower, white base; 13.	F.R. at head of pier extending from root of Dique de Abrigo.
5584 <i>E 0374.2</i>	-Dique de Levante.	40° 36.9' N 0° 36.0' E	Fl.(3)G. period 10.5s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 4.5s	19 6	4	Green tower; 13.	
5588 <i>E 0374.4</i>	-Dique de Abrigo, extremity of spur.	40° 37.0' N 0° 35.9' E	Oc.R. period 4s lt. 3s, ec. 1s	16 5	2	Red tower; 13.	
5592 <i>E 0375</i>	Muelle de hierro.	40° 36.2' N 0° 41.4' E	Q.W.	26 8	3	N. CARDINAL BY, tower, topmark.	Visible 082°-229°.
5598 <i>E 0377</i>	Cabo Tortosa.	40° 43.0' N 0° 55.8' E	Fl.W.R. period 6s fl. 1s, ec. 5s	59 18	14	Black metal framework tower and platform, aluminum top, on piles; 59.	W. 122°-052°, R.-122°. Radar reflector.
RACON				T(-)			
5599 <i>E 0376</i>	Rio Ebro.	40° 43.3' N 0° 51.6' E	Fl.(5)Y. period 13s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	43 13	3	SPECIAL Y, beacon, topmark; 36.	
5600 <i>E 0380</i>	Punta del Fangal.	40° 47.2' N 0° 46.2' E	Fl.(2+1)W. period 12s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 2.4s fl. 0.8s, ec. 6s	66 20	12	White round tower, red band; 59.	
5604 <i>E 0380.55</i>	-La Ampolla, breakwater, head.	40° 49.0' N 0° 43.0' E	Fl.R. period 5s fl. 1s, ec. 4s	13 4	3	Red truncated pyramidal tower; 10.	
5608 <i>E 0380.5</i>	-Jetty, head.	40° 48.7' N 0° 42.8' E	Fl.G. period 4s fl. 0.5s, ec. 3.5s	33 10	5	Green tower, white base; 13.	

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SPAIN-MEDITERRANEAN SEA							
5610 <i>E 0381</i>	Estany Gras, marina.	40° 52.2' N 0° 47.7' E	Fl.(3)G. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	46 14	3	Green pyramidal tower; 16.	
5612 <i>E 0381.5</i>	Ametlla del Mar, breakwater, head.	40° 52.7' N 0° 48.1' E	Fl.(4)G. period 12s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 7s	55 17	7	Square green metal tower on white hut; 30.	
5614 <i>E 0382.3</i>	Puerto Deportivo Calafat.	40° 55.7' N 0° 51.1' E	Fl.G. period 4s fl. 0.5s, ec. 3.5s	30 9	6	Green truncated pyramidal tower; 20.	
5614.5 <i>E 0382.4</i>	-Contradique.	40° 55.8' N 0° 51.1' E	Fl.(2)R. period 10s fl. 0.4s, ec. 1.6s fl. 0.4s, ec. 7.6s	16 5	4	Red tower; 13.	
5615 <i>E 0382.5</i>	Hospitalet del Infante, dique, SE. head.	40° 59.2' N 0° 55.9' E	I.Q.(4)G. period 10s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 6.5s	33 10	5	White truncated pyramid, green top; 16.	
5615.5 <i>E 0382.6</i>	-Contradique, head.	40° 59.4' N 0° 56.0' E	Fl.R. period 2s fl. 0.5s, ec. 1.5s	16 5	2	Red truncated tower, white base, 10.	
5616 <i>E 0384</i>	Cambrils, W. mole, head.	41° 03.7' N 1° 03.6' E	Fl.(2)R. period 8s fl. 0.5s, ec. 2s fl. 0.5s, ec. 5s	43 13	5	Red round tower; 30.	
5620 <i>E 0383</i>	-E. mole, head.	41° 03.7' N 1° 03.6' E	Fl.(3)G. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	50 15	5	Green square tower; 37.	
5624 <i>E 0385</i>	Embarcadero de Salou, dique de levante.	41° 04.3' N 1° 07.7' E	Fl.(2)G. period 8s fl. 1s, ec. 1.5s fl. 1s, ec. 4.5s	23 7	5	Green tower; 13.	
5628 <i>E 0385.5</i>	-Dique de poniente, head.	41° 04.4' N 1° 07.7' E	Fl.(2)R. period 8s fl. 1s, ec. 1.5s fl. 1s, ec. 4.5s	13 4	3	Red metal post; 7.	
5632 <i>E 0386</i>	Cabo de Salou.	41° 03.4' N 1° 10.4' 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	141 43	23	White tower, red band, on white building; 36.	
5634 <i>E 0386.1</i>	Playa del la Pineda, S. pier, head.	41° 04.0' N 1° 11.0' E	Q.(3)W. period 10s	26 8	1	E. CARDINAL BYB, post, topmark; 20.	
5635 <i>E 0386.15</i>	-NW. pier, head.	41° 05.0' N 1° 11.8' E	Q.(3)W. period 10s	20 6	1	E. CARDINAL BYB, beacon, topmark; 13.	
5636 <i>E 0386.2</i>	LANBY, Tanker.	41° 04.1' N 1° 13.2' E	Fl.(4)Y. period 20s		5	Yellow LANBY, yellow topmark; 36.	
TARRAGONA:							
5640 <i>E 0386.6</i>	-Playa de le Canonja, oil pier.	41° 04.9' N 1° 12.5' E	Fl.R. period 5s fl. 1s, ec. 4s	39 12	7	Metal post; 13.	
5641 <i>E 0386.7</i>	-Muelle de Cantabria, elbow.	41° 05.2' N 1° 12.5' E	Q.(6)+L.Fl.W. period 15s	20 6	1	S. CARDINAL YB, beacon, topmark; 7.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-MEDITERRANEAN SEA							
5641.2 <i>E 0386.72</i>	--Head.	41° 05.2' N 1° 12.8' E	Fl.(2)R. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	26 8	5	Red post; 7.	
5641.5 <i>E 0386.71</i>	--SE. head.	41° 05.3' N 1° 12.7' E	Fl.(3)R. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	7 2	1	White post, red rectangular daymark; 7.	
5643 <i>E 0386.8</i>	-Vehicle terminal, S. head.	41° 05.6' N 1° 12.7' E	Fl.(2+1)R. period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 4.5s	23 7	1	Red post, green band; 13.	
5644 <i>E 0387</i>	-Pantalan ASES, Platform A.	41° 05.7' N 1° 12.9' E	Fl.(4)R. period 12s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 5.2s	39 12	1	White round post; 13.	
5646 <i>E 0387.4</i>	--Platform B.	41° 05.7' N 1° 13.0' E	Fl.R. period 5s fl. 1s, ec. 4s	30 9	1	White post, red square top; 3.	
5648 <i>E 0387.2</i>	--Platform C.	41° 05.9' N 1° 13.0' E	Fl.(2)R. period 6s fl. 1s, ec. 1.5s fl. 1s, ec. 2.5s	30 9	1	White round post on gray hut, red square; 3.	
5650 <i>E 0393.4</i>	-Muelle Terquimsa, T-Jetty, NW. head	41° 06.1' N 1° 13.3' E	V.Q.(6)+L.FI.W. period 10s	23 7	1	S. CARDINAL YB, tower, topmark; 16.	
5652 <i>E 0388</i>	-Dique de Levante.	41° 05.3' N 1° 13.6' E	Oc.W. period 3s lt. 2s, ec. 1s	89 27	1	Gray hexagonal tower above hut on pylons; 59.	F.R. lights on silo 550 meters ENE. and chimney 1.8 km. WNW.
5660 <i>E 0388.4</i>	-Muelle de Aragon.	41° 06.0' N 1° 14.1' E	Fl.(4)G. period 11s	23 7	3	Green post; 13.	
5662 <i>E 0388.2</i>	-Muelle de Cataluna, NE. corner.	41° 05.7' N 1° 13.7' E	Fl.(3)G. period 9s	26 8	1	Green post; 13.	
5664 <i>E 0393</i>	-Contradique, E. corner.	41° 06.0' N 1° 13.7' E	Fl.R. period 5s fl. 1s, ec. 4s	23 7	3	Red truncated tower; 16.	
5665 <i>E 0393.2</i>	--W. corner.	41° 06.0' N 1° 13.5' E	Fl.(2+1)R. period 14.5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s fl. 0.5s, ec. 9s	20 6	1	White post, green band, red rectangular daymark; 10.	Obscured 165°-265°.
5668 <i>E 0392.6</i>	-Muelle de Castilla.	41° 06.1' N 1° 13.9' E	Fl.(2+1)R. period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 4.5s	23 7	1	Red mast, green band; 13.	
5670 <i>E 0389</i>	-Muelle de Rioja, head.	41° 06.2' N 1° 14.2' E	Fl.(2)R. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	23 7	1	Red metal post; 13.	
5676 <i>E 0392</i>	--SE. head.	41° 06.3' N 1° 14.5' E	Fl.(2+1)R. period 14.5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s fl. 0.5s, ec. 9s	23 7	1	White post, green band, red rectangular daymark; 13.	
5678 <i>E 0392.1</i>	-Lifting bridge, W. side, S. head.	41° 06.4' N 1° 14.6' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	13 4	1	Red post; 7.	Fl.R. 5s marks bridge N. side.
5679 <i>E 0392.12</i>	--E. side, S. head.	41° 06.3' N 1° 14.6' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	13 4	1	Green post; 7.	Fl.G. 5s marks bridge N. side. Fl.(2)G. 5s marks breakwater head NE.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-MEDITERRANEAN SEA							
5682 <i>E 0388.12</i>	-Dique Rompeolas, W. head.	41° 04.7' N 1° 12.8' E	Fl.G. period 5s fl. 1.5s, ec. 3.5s	72 22	10	Green round tower, white base and truncated conical top; 36.	
5684 <i>E 0388.35</i>	-E. breakwater, spur, head.	41° 05.5' N 1° 13.5' E	Fl.(2)G. period 8s fl. 1s, ec. 2s fl. 1s, ec. 4s	19 6	3	Green post; 13.	Visible 037°-200°.
5689 <i>E 0392.3</i>	-Outer breakwater.	41° 06.3' N 1° 15.1' E	Fl.(2)G. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	23 7	5	Green post; 10.	
5690 <i>E 0392.33</i>	-Dique de Arigo.	41° 06.5' N 1° 15.2' E	Q.(3)W. period 10s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 7.5s	16 5	3	E. CARDINAL BYB, post, topmark; 3.	
5690.5 <i>E 0392.37</i>	-Martillo inner breakwater.	41° 06.4' N 1° 15.1' E	Fl.(3)G. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	10 3	1	Green post; 3.	
5691 <i>E 0392.4</i>	-Inner breakwater.	41° 06.4' N 1° 15.1' E	Fl.(2)R. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	13 4	3	Red post; 3.	
5691.3 <i>E 0393.6</i>	Altafulla Beach.	41° 07.8' N 1° 22.2' E	Q.(6)+L.Fl.W. period 15s	16 5	5	S. CARDINAL YB, beacon, topmark; 13.	
5691.5 <i>E 0393.7</i>	Torredembarra.	41° 07.9' N 1° 23.7' E	Fl.(5)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. 4.8s fl. 0.2s, ec. 9.8s	190 58	17	White octagonal tower, copper dome; 125.	
5691.6 <i>E 0393.8</i>	Cabo Gros, breakwater, head.	41° 08.0' N 1° 24.1' E	Q.(4)G. period 10s	33 10	5	Green post; 16.	
5691.7 <i>E 0393.85</i>	-Elbow.	41° 08.2' N 1° 24.2' E	Q.(3)W. period 10s	30 9	3	E. CARDINAL BYB, beacon, topmark; 10.	
SAN SALVADOR:							
5692 <i>E 0394</i>	-W. jetty, head.	41° 10.7' N 1° 31.0' E	Fl.(2)G. period 7s fl. 0.5s, ec. 1s fl. 0.5s, ec. 5s	23 7	5	Green post; 7.	
5696 <i>E 0394.2</i>	-Mole, W. elbow.	41° 10.4' N 1° 30.7' E	Q.(6)+L.Fl.W. period 15s	30 9	3	S. CARDINAL YB, tower, topmark; 13.	
5700 <i>E 0394.4</i>	-Mole, E. elbow.	41° 10.4' N 1° 30.8' E	V.Q.(6)+L.Fl.W. period 10s	30 9	3	S. CARDINAL YB, post, topmark; 13.	
5704 <i>E 0394.6</i>	-E. jetty, head.	41° 10.4' N 1° 30.8' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	23 7	5	Red post; 7.	
5705 <i>E 0394.8</i>	Puerto Segur de Calafell.	41° 11.4' N 1° 36.4' E	Fl.(4)G. period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	26 8	5	Green tower; 13.	
5706 <i>E 0395</i>	Cunit.	41° 11.6' N 1° 39.4' E	Q.(6)+L.Fl.W. period 15s	16 5	5	S. CARDINAL YB, beacon, topmark; 10.	
5708 <i>E 0396</i>	Villanueva y Geltru.	41° 13.1' N 1° 44.5' E	Fl.(3)W. period 8s fl. 0.2s, ec. 1.5s fl. 0.2s, ec. 1.5s fl. 0.2s, ec. 4.4s	89 27	19	Truncated round tower, white dwelling, aluminum cupola; 69.	Visible 265°-070°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-MEDITERRANEAN SEA							
5712 <i>E 0396.2</i>	-Dique de levante, head.	41° 12.3' N 1° 43.7' E	Fl.(2)G. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	59 18	5	Green tower, white base; 36.	
5716 <i>E 0396.3</i>	-N. extremity.	41° 12.6' N 1° 44.0' E	Fl.(3)G. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	16 5	1	Green post; 10.	
5718 <i>E 0396.12</i>	-Nuevo contradique.	41° 12.6' N 1° 43.7' E	Fl.(2)R. period 7s fl. 0.5s, ec. 2s fl. 0.5s, ec. 4s	49 15	3	Red truncated pyramidal tower; 16.	
5720 <i>E 0396.14</i>	-Dique de poniente, head.	41° 12.6' N 1° 43.8' E	Fl.(3)R. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	30 9	1	Red truncated pyramidal tower; 10.	Visible 122°-032°.
5728 <i>E 0396.52</i>	-Espigou de la Pesca.	41° 12.8' N 1° 44.0' E	Fl.(4)R. period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	30 9	1	Red truncated tower; 10.	
5732 <i>E 0396.5</i>	-Espigou Transversal, head.	41° 12.7' N 1° 44.0' E	Fl.(2+1)R. period 21s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 13.5s	29 9	1	Red truncated tower, green band; 9.	
5736 <i>E 0396.6</i>	Puerto de Vallcarca.	41° 14.1' N 1° 51.8' E	Fl.(4)G. period 13s	33 10	4	Green tower, white base; 13.	
5740 <i>E 0396.62</i>	Garraf, E. mole, head.	41° 14.8' N 1° 54.0' E	Fl.(3)G. period 9s	22 7	5	Green tower; 10.	
5744 <i>E 0396.64</i>	-W. mole, head.	41° 15.0' N 1° 54.1' E	Fl.(3)R. period 9s	13 4	3	Red tower; 10.	
5745 <i>E 0396.8</i>	Puerto deportivo de Vallbona, shelter dike, head.	41° 15.3' N 1° 55.2' E	Fl.(2)G. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	26 8	5	Green tower.	
5746 <i>E 0396.85</i>	-Contradique, head.	41° 15.5' N 1° 55.5' E	Fl.(2)R. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	16 5	3	Red tower; 10.	
5747 <i>E 0396.9</i>	-E. jetty, head.	41° 15.6' N 1° 55.9' E	Q.(6)+L.Fl.W. period 15s	16 5	4	S. CARDINAL YB, tower; 10.	
5748 <i>E 0397</i>	Muntados AVIATION LIGHT.	41° 18.3' N 2° 04.7' E	Fl.(2)W. period 4s	56 17			Occasional.
5750	<i>Barcelona Approach Buoy.</i>	41° 16.9' N 2° 10.9' E	Mo.(A)W. period 10s		7	SAFE WATER RW, pillar; 16.	
	RACON		B(- • • •)		8		
5752 <i>E 0398</i>	Rio Llobregat.	41° 19.5' N 2° 09.1' E	Fl.W. period 5s fl. 1s, ec. 4s	105 32	23	Tower on building, gallery with lantern; 102.	Visible 240°-030°.
5753 <i>E 0399</i>	-New river mouth, S. breakwater, head.	41° 17.6' N 2° 07.6' E	Q.(3)W. period 10s	20 6	5	E. CARDINAL BYB, post, topmark.	
BARCELONA:							
5760 <i>E 0400</i>	-Montjuich.	41° 21.7' N 2° 10.0' E	Fl.(2)W. period 15s fl. 0.3s, ec. 3.4s fl. 0.3s, ec. 11s	354 108	26	Tower on building, round silver lantern; 42.	Visible 240°30'-066°36'.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-MEDITERRANEAN SEA							
5761 E 0401.55	-Entrance Channel, E. breakwater, head.	41° 19.0' N 2° 10.4' E	Fl.G. period 5s	46 14	7	Green tower on white base; 13.	Radar reflector.
5762 E 0401.58	-S. breakwater, elbow.	41° 18.7' N 2° 10.0' E	Fl.R. period 5s	46 14	7	Red tower on white base; 13.	
5763 E 0401.7	--Head.	41° 19.1' N 2° 09.9' E	Fl.(2)R. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	26 8	5	Red tower on white base; 13.	Radar reflector.
5763.5 E 0401.59	--SW. corner.	41° 17.8' N 2° 09.2' E	V.Q.(3)W. period 5s	46 14	3	E. CARDINAL BYB, column, topmark.	
5766	-E. breakwater, elbow.	41° 19.6' N 2° 10.2' E	Fl.(2)G. period 7s	49 15	5		
	-Dique del Este:						
5767 E 0401	--Spur.	41° 20.0' N 2° 10.2' E	Fl.(3)G. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	20 6	3	Green tower on white base.	
5768 E 0402	--Inner T-Jetty, head.	41° 20.4' N 2° 10.3' E	Fl.(3)G. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	29 9	3	Green post on masonry base; 16.	
5774 E 0405	-Nuevo Contradique, head.	41° 20.5' N 2° 10.1' E	Fl.(4)R. period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	30 9	5	Red round tower, white band at base; 16.	
5777 E 0404	-Quay, S. head.	41° 20.2' N 2° 09.9' E	Q.R.		3	Red and white beacon.	
5777.5 E 0404.5	--N. head.	41° 20.3' N 2° 09.9' E	Q.R.		3	Red and white beacon.	
5780 E 0407.6	-Muelle Sur, S. corner.	41° 20.8' N 2° 10.0' E	Fl.(2+1)R. period 14.5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s fl. 0.5s, ec. 9s	20 6	3	Red post on concrete base; 10.	
5784 E 0407.62	-Muelle Sur, N. corner.	41° 21.4' N 2° 10.4' E	Fl.(4)R. period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	20 6	2	Red post on concrete base; 10.	Port marked by numerous R. and G. lights.
5785 E 0410.2	-Muelle de Poniente, NE. corner.	41° 21.9' N 2° 10.8' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	20 6	3	Red post on concrete pyramid base; 10.	
5786 E 0434.591	-Dique de Abrigo, S. head.	41° 21.5' N 2° 11.1' E	Fl.(2)G. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	43 13	5	Green post; 13.	
5788 E 0434.592	--W. end.	41° 21.5' N 2° 11.1' E	Fl.(3)G. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	13 4	5	Green post; 13.	
5792 E 0424	-Muelle de Espana, S. corner.	41° 22.5' N 2° 11.0' E	Fl.(2+1)R. period 14.5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s fl. 0.5s, ec. 9s	20 6	3	Red column, green band on concrete base; 10.	
5795 E 0434.4	-Industrial Dock, jetty, head.	41° 22.4' N 2° 11.2' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	16 5	2	Green post; 10.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-MEDITERRANEAN SEA							
5796 <i>E 0434.45</i>	--W. head.	41° 22.4' N 2° 11.2' E	Fl.(2+1)G. period 21s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 13.5s	16 5	2	Green post, red band.	
5800 <i>E 0434.71</i>	Puerto Olimpico, S. entrance.	41° 22.9' N 2° 11.9' E	Fl.(3)R. period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4.5s	20 6	3	Red post.	
5802 <i>E 0434.72</i>	-Breakwater.	41° 23.0' N 2° 12.1' E	Fl.(3)G. period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4.5s	20 6	5	Green post.	
5804 <i>E 0434.73</i>	-NE.	41° 23.1' N 2° 12.3' E	Q.(3)W. period 10s	20 6	5	E. CARDINAL BYB, beacon, topmark.	
5864 <i>E 0437</i>	-San Adrian de Besos, pier.	41° 26.4' N 2° 14.8' E	Fl.(4)Y. period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	33 10	3	Yellow post; 13.	
5868 <i>E 0435</i>	--Pier.	41° 25.1' N 2° 14.2' E	Q.(3)W. period 10s	36 11	3	E. CARDINAL BYB, post, topmark; 20.	
5870 <i>E 0439.3</i>	Dique de Levante.	41° 28.4' N 2° 18.7' E	Fl.(2)G. period 12s fl. 1s, ec. 2s fl. 1s, ec. 8s	33 10	5	Round tower on green hut; 23.	
5872 <i>E 0439.35</i>	-Dique de Poniente, head.	41° 28.5' N 2° 18.7' E	Fl.(2)R. period 12s fl. 1s, ec. 2s fl. 1s, ec. 8s	10 3	3	Red round tower; 10.	
5874 <i>E 0439</i>	Masnou.	41° 28.5' N 2° 18.8' E	Fl.(3)G. period 10s	3 1	2	Square green tower; 3.	
5874.5 <i>E 0439.2</i>	-Darsena, E. head.	41° 28.6' N 2° 18.9' E	Fl.(3)R. period 10s	3 1	2	Red square tower; 3.	
5875 <i>E 0439.5</i>	Premia de mar.	41° 29.4' N 2° 22.0' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	20 6	5	Green post; 10.	Fl.R. 3s 3m 3M marks opposite breakwater.
5875.4 <i>E 0439.8</i>	Mataro harbor.	41° 31.6' N 2° 26.7' E	Fl.(4)G. period 16s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 6s	49 15	5	Green tower.	
5876 <i>E 0440</i>	El Balis, yacht basin.	41° 33.4' N 2° 30.6' E	Fl.(4)G. period 12s	13 4	2	Green tower; 7.	
5880 <i>E 0446</i>	-Dique de Colvario, head.	41° 34.6' N 2° 33.5' E	Fl.(2+1)R. period 21s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 13.5s	16 5	2	Red truncated tower, green band; 10.	
5884 <i>E 0446.5</i>	-Dique de Portinol, head.	41° 34.4' N 2° 33.4' E	Fl.(2)G. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	30 9	5	Green square tower on white house; 16.	
5888 <i>E 0448</i>	Calella.	41° 36.4' N 2° 38.7' E	Fl.(3+2)W. period 20s fl. 0.3s, ec. 1.4s fl. 0.3s, ec. 1.4s fl. 0.3s, ec. 7.2s fl. 0.3s, ec. 1.4s fl. 0.3s, ec. 7.1s	164 50	18	White tower, glass cupola; 33.	Aeromarine light.
5891 <i>E 0452</i>	Puerto de Blanes, Dique de Abrigo, head.	41° 40.3' N 2° 47.7' E	Fl.G. period 3s	23 7	3	White masonry tower, green top; 10.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-MEDITERRANEAN SEA							
5892 <i>E 0452.2</i>	Blanes, breakwater, head.	41° 40.3' N 2° 47.7' E	Fl.G. period 3s fl. 1s, ec. 2s	23 7	5	White metal tower, green top; 10.	
5893 <i>E 0452.08</i>	-Contradique, head.	41° 40.3' N 2° 47.8' E	Fl.R. period 3s fl. 1s, ec. 2s	23 7	3	White metal tower, red top; 13.	
5894 <i>E 0452.1</i>	-Breakwater, head.	41° 40.5' N 2° 48.0' E	Fl.(2)R. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	20 6	2	Red post; 13.	
5895 <i>E 0452.7</i>	Canelles, Dique de Abrigo.	41° 42.2' N 2° 52.8' E	Fl.(4)G. period 11s fl. 0.3s, ec. 1.5s fl. 0.3s, ec. 1.5s fl. 0.3s, ec. 1.5s fl. 0.3s, ec. 5.3s	16 5	5	Green tower; 10.	
5896 <i>E 0453</i>	Cabo Tossa.	41° 42.8' N 2° 56.0' E	Fl.(3+1)W. period 20s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 7.3s fl. 0.2s, ec. 7.3s	197 60	21	White square tower on dwelling; 36.	Visible 229°42'-064°12'.
SAN FELIU DE GUIXOLS:							
5900 <i>E 0456</i>	-Mole, head.	41° 46.5' N 3° 01.9' E	Fl.(3)G. period 9s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 3s	33 10	5	White tower, green top; 20.	Iso.W. 3s 4M and Oc.W. 3s 4M in line 343°, marks anchorage.
5912 <i>E 0459</i>	Playa de Aro.	41° 48.0' N 3° 03.8' E	Fl.(2)G. period 9s fl. 1.5s, ec. 2s fl. 1.5s, ec. 4s	20 6	5	Green and white round tower; 10.	
PALAMOS:							
5916 <i>E 0462</i>	-Punta del Molino.	41° 50.5' N 3° 07.8' E	Oc.(1+4)W. period 18s lt. 1.4s, ec. 1s lt. 1.4s, ec. 1s lt. 1.4s, ec. 1s lt. 4.4s, ec. 1s lt. 4.4s, ec. 1s	72 22	18	White masonry tower, lower part hexagonal, upper part round, gray cupola; 26.	
5920 <i>E 0460</i>	-Bajo Pereira (Llosa) on Palanos Reef.	41° 50.1' N 3° 07.2' E	Fl.(2)W. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	33 10	5	ISOLATED DANGER BRB, beacon, topmark.	
5924 <i>E 0464</i>	-Dique de Abrigo, head.	41° 50.5' N 3° 07.2' E	Fl.G. period 3s fl. 1s, ec. 2s	30 9	5	Spherical support, green triangular topmark point up; 20.	
5926 <i>E 0466.6</i>	-Darsena Pesquera, S. jetty, head.	41° 50.5' N 3° 07.5' E	Fl.(2)G. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	20 6	3	White column, green top; 13.	
5927 <i>E 0466.4</i>	--N. jetty, head.	41° 50.5' N 3° 07.5' E	Fl.(2)R. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	20 6	3	White column, red top; 13.	
5928 <i>E 0466.7</i>	-Puerto Deportivo, breakwater.	41° 50.7' N 3° 08.2' E	Fl.(4)G. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 3.5s	36 11	5	Green tower; 26.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-MEDITERRANEAN SEA							
5929 E 0466.75	--N. breakwater.	41° 50.8' N 3° 08.2' E	Fl.(4)R. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 3.5s	13 4	3	Red tower; 7.	
5930 E 0466.8	--Inner breakwater.	41° 50.8' N 3° 08.3' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	7 2	3	Green tower; 3.	
5932 E 0467	-Hormiga Grande, N. coast.	41° 51.7' N 3° 11.1' E	Fl.(3)W. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	46 14	6	White round tower; 19.	
5936 E 0468	-Llanfranch, shelter mole, head.	41° 53.5' N 3° 11.7' E	Fl.(3)G. period 11s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 7.5s	20 6	5	White metal column, green top; 7.	
5940 E 0470	Cabo de San Sebastian.	41° 53.9' N 3° 12.1' E	Fl.W. period 5s fl. 0.3s, ec. 4.7s	548 167	32	White round tower on white dwelling, red roof; 39.	Visible 197°-165°. Aeromarine light.
5942 E 0471.2	Punta del Mut.	41° 56.2' N 3° 13.0' E	Fl.(2)G. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	13 4	5	Green tower, white base; 10.	
5944 E 0472	Islas Medas, summit of Meda Grande.	42° 02.8' N 3° 13.2' E	Fl.(4)W. period 24s fl. 1s, ec. 3s fl. 1s, ec. 3s fl. 1s, ec. 3s fl. 1s, ec. 11s	285 87	14	Tower on brick building; 36.	
5948 E 0474	Estartit, mole, head.	42° 03.0' N 3° 12.2' E	Fl.(2)G. period 13s fl. 0.5s, ec. 3s fl. 0.5s, ec. 9s	13 4	3	White post, green top; 13.	
5952 E 0474.4	-Contradique, head.	42° 07.1' N 3° 08.8' E	Fl.(2)R. period 13s fl. 0.5s, ec. 3s fl. 0.5s, ec. 9s	10 3	3	Red and white post.	
5956 E 0475.4	La Escala, la Clota, breakwater.	42° 07.1' N 3° 08.9' E	Fl.(4)G. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 2.5s	16 5	3	Green post; 10.	Visible 097°-008°.
5960 E 0475.5	Ampuriabrava, Dique de Poniente.	42° 14.6' N 3° 08.1' E	Fl.(3)G. period 7s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3.5s	26 8	5	Green tower, white base; 13.	
5960.5 E 0475.52	-W. dike, head.	42° 14.6' N 3° 08.0' E	Fl.(3)R. period 7s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3.5s	26 8	4	Red tower, white base; 13.	
5961 E 0475.53	-Transverse dike, head.	42° 14.7' N 3° 08.0' E	Fl.(4)R. period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	10 3	3	Red lantern on dike; 3.	
5961.5 E 0475.54	-Parallel dike.	42° 14.7' N 3° 08.0' E	Fl.(4)G. period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	13 4	3	Green tower, white base; 3.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SPAIN-MEDITERRANEAN SEA							
SANTA MARGARITA:							
5964 <i>E 0475.6</i>	-Dique de Abrigo.	42° 15.4' N 3° 09.0' E	Q.(2)G. period 4s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 2.5s	26 8	5	White tower, green top; 20.	
5968 <i>E 0475.7</i>	-Contradique.	42° 15.7' N 3° 09.0' E	Q.(2)R. period 4s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 2.5s	20 6	3	White tower, red top; 10.	
BAHIA DE ROSAS:							
5972 <i>E 0476</i>	-Punta de la Bateria.	42° 14.6' N 3° 10.9' E	Oc.(4)W. period 15s lt. 1s, ec. 1.5s lt. 1s, ec. 1.5s lt. 1s, ec. 1.5s lt. 6s, ec. 1.5s	79 24	12	White round tower, white dwelling; 36.	
5976 <i>E 0479</i>	-Muelle de Abrigo, head.	42° 15.0' N 3° 10.6' E	Fl.G. period 4s fl. 1s, ec. 3s	26 8	5	Green round structure on white hut; 13.	
5980 <i>E 0480</i>	-Muelle comercial, head.	42° 15.3' N 3° 10.7' E	Fl.(2)R. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	20 6	1	Red post on red hut; 13.	Visible 170°-125°.
5984 <i>E 0484</i>	Punta de Cala Nans, Cadaques, entrance, S. side.	42° 16.1' N 3° 17.1' E	Fl.(4+1)W. period 25s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 7.5s fl. 0.5s, ec. 7.5s	108 33	8	White round tower, dwelling; 23.	
5988 <i>E 0486</i>	Cabo de Creus.	42° 19.0' N 3° 18.9' E	Fl.(2)W. period 10s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 7.2s	285 87	20	White round tower, white dwelling, red roof; 36.	Aeromarine.
5992 <i>E 0488</i>	Puerto de la Selva Punta Sernella.	42° 20.9' N 3° 11.2' E	Fl.W. period 5s fl. 1s, ec. 4s	72 22	13	White square tower, white dwelling, red roof.	
5996 <i>E 0489</i>	-Punta Trench, mole, head.	42° 20.4' N 3° 11.9' E	Fl.(4)R. period 10s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 3s	20 6	5	Red tower, white base; 16.	
6000 <i>E 0490</i>	Embarcadero de Culera, Dique de Levante, head.	42° 24.3' N 3° 09.3' E	Fl.(2)R. period 6s fl. 0.8s, ec. 0.8s fl. 0.8s, ec. 3.6s	23 7	5	Red tower, white base; 10.	
6004 <i>E 0490.4</i>	-Contradique, head.	42° 24.3' N 3° 09.3' E	Fl.(2)G. period 6s fl. 0.8s, ec. 0.8s fl. 0.8s, ec. 3.6s	16 5	3	Green tower, white base; 10.	

Section 5

Mediterranean Coast of France and Monaco

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
FRANCE-MEDITERRANEAN SEA							
6008 <i>E 0492</i>	Cap Cerbere.	42° 26.4' N 3° 10.6' E	Fl.W. period 4s fl. 0.1s, ec. 3.9s	180 55	15	Gray pyramid tower, red top; 33.	
6009 <i>E 0492.2</i>	-Sector.	42° 26.5' N 3° 10.2' E	Fl.(2)W.R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	39 12	W. 9 R. 6	Red structure; 3.	W. 202°-237°, R.-202°.
6012 <i>E 0493</i>	Banyuls, Ile Petite.	42° 28.9' N 3° 08.0' E	Fl.W.G. period 4s fl. 1s, ec. 3s	33 10	W. 10 G. 7	White column, dark green top; 26.	W. 193°-247°, G.-193°.
6016 <i>E 0495</i>	-Jetty, NE. head.	42° 28.9' N 3° 08.2' E	Oc.(2)R. period 6s	33 10		White pylon, red top; 20.	
6020 <i>E 0496</i>	Cap Bear.	42° 30.9' N 3° 08.2' E	Fl.(3)W. period 15s fl. 0.1s, ec. 2.9s fl. 0.1s, ec. 2.9s fl. 0.1s, ec. 8.9s	262 80	30	Red and gray pyramid tower; 88.	Visible 146°-056°.
PORT VENDRES:							
6024 <i>E 0498</i>	-Fort Fanal, entrance, W. side.	42° 31.3' N 3° 06.8' E	Oc.G. period 4s lt. 3s, ec. 1s	95 29	8	White square tower, dark green house; 59.	Visible 147°-264°.
6028 <i>E 0498.5</i>	-Fort Fanal beacon, about 50 meters ESE of fort.	42° 31.3' N 3° 06.9' E	Q.G.	29 9	7	White tower and dark green top; 29.	
6032 <i>E 0506</i>	-Anse Gerbal, jetty, head.	42° 31.2' N 3° 06.8' E	Iso.G. period 4s	13 4	6	White pylon, green top; 10.	
6036 <i>E 0508</i>	-Pointe des Pilotes.	42° 31.2' N 3° 06.7' E	Fl.G. period 4s fl. 1s, ec. 3s	13 4	7	White metal column, dark green top; 10.	
6040 <i>E 0509</i>	-Pointe de la Presquile.	42° 31.6' N 3° 06.1' E	Fl.R. period 4s fl. 1s, ec. 3s	10 3	6	Red metal structure; 7.	
6044 <i>E 0504</i>	-Entrance, E. side, mole, head.	42° 31.4' N 3° 07.1' E	Oc.(3)R. period 12s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 4.5s, ec. 1.5s	65 20	11	White hexagonal hut, red top; 56.	Visible 110°-287°.
6048 <i>E 0497</i>	-Entrance Range, front.	42° 31.1' N 3° 06.9' E	Q.W.	39 12	10	Red support on white hut, grey base; 19.	
6052 <i>E 0497.1</i>	--Rear, about 200 meters 198°30' from front.	42° 31.0' N 3° 06.9' E	Dir.Q.W.	75 23	18	White tower, red top, red and white checkered stripe; 36.	Intensified 196°-199°. Synchronized with front.
6056 <i>E 0512</i>	Collioure, jetty, head.	42° 31.7' N 3° 05.3' E	Iso.G. period 4s	46 14	8	Dark green structure; 23.	Visible 135°-278°.
6060 <i>E 0512.5</i>	-Argeles-sur-Mer, jetty, NE. head.	42° 32.7' N 3° 03.4' E	Fl.G. period 4s fl. 1s, ec. 3s	16 5	5	Green metal column; 7.	
6064 <i>E 0512.6</i>	--Jetty, SW. head.	42° 32.7' N 3° 03.0' E	Fl.R. period 4s fl. 1s, ec. 3s	30 9	4	White metal column with gallery, red top; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
FRANCE-MEDITERRANEAN SEA							
6068 <i>E 0513</i>	Saint Cyprien, S. jetty, head.	42° 37.2' N 3° 02.4' E	Fl.(4)R. period 15s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	39 12	9	Gray column, red top; 23.	North jetty pierhead marked by F.W. lights.
6072 <i>E 0514.5</i>	Canet-Plage.	42° 42.5' N 3° 02.3' E	Fl.(4)W. period 15s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	89 27	15	White structure; 79.	
6076 <i>E 0515</i>	-S. jetty, head.	42° 42.2' N 3° 02.6' E	Fl.(3)R. period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	30 9	9	White column, red top; 20.	
6077 <i>E 0515.2</i>	-N. jetty, head.	42° 42.2' N 3° 02.4' E	Fl.(3)G. period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	16 5	5	White pylon, green top; 10.	
6078 <i>E 0516</i>	Sainte-Marie-la-Mer, N. breakwater, head.	42° 43.4' N 3° 02.4' E	Fl.(5)G. period 20s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9.5s	16 5	4	Gray post, green top; 10.	
6078.5 <i>E 0516.1</i>	-S. breakwater, head.	42° 43.4' N 3° 02.4' E	Fl.(5)R. period 20s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9.5s	20 6	5	Gray post, red top; 10	
6080 <i>E 0514</i>	Perpignan-Riversaltes, AVIATION LIGHT.	42° 43.8' N 2° 52.6' E	Mo.(X)W. period 8.5s	190 58	33	Pylon; 46.	Occasional.
6084 <i>E 0517</i>	Grau S. Ange, S. jetty, head.	42° 47.9' N 3° 02.4' E	Fl.(2)R. period 10s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 6.8s	33 10	5	White column, red top; 23.	Fl.G. 2.5s marks N. jetty.
6088 <i>E 0518</i>	Cap Leucate.	42° 54.5' N 3° 03.3' E	Fl.(2)W. period 10s fl. 0.1s, ec. 2.4s fl. 0.1s, ec. 7.4s	216 66	20	White pyramidal tower, red top; 62.	
6092 <i>E 0517.6</i>	Leucate, E. jetty.	42° 52.4' N 3° 03.3' E	Fl.R. period 4s	26 8	6	White column, red top; 20.	
6096 <i>E 0517.7</i>	-W. jetty, head.	42° 52.5' N 3° 03.1' E	Fl.G. period 4s	26 8	6	White and green column; 20.	
6097 <i>E 0517.8</i>	-Pleasure harbor, entrance, S. coast.	42° 52.3' N 3° 03.1' E	Fl.R. period 2.5s fl. 0.5s, ec. 2s	10 3	2	Red tower; 7.	
6098 <i>E 0517.9</i>	--N. coast.	42° 52.3' N 3° 03.3' E	Fl.G. period 2.5s fl. 0.5s, ec. 2s	10 3	2	Green tower; 7.	
PORT-LA-NOUVELLE:							
6100 <i>E 0522</i>	-S. jetty, head, Range, front.	43° 00.8' N 3° 04.2' E	Q.W.	75 23	14	White tower, red top; 59.	
6100.1 <i>E 0522.1</i>	--Rear, 3530 meters 292°24' from front.	43° 01.3' N 3° 01.8' E	Q.W.	174 53	17	Tower.	
6104 <i>E 0524</i>	-N. jetty, head.	43° 00.8' N 3° 04.2' E	Iso.G. period 4s	49 15	6	White round tower, green top; 39.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
FRANCE-MEDITERRANEAN SEA							
CANAL DU GRAZEL:							
6106 <i>E 0525</i>	-S. jetty, head.	43° 05.7' N 3° 06.7' E	Fl.R. period 4s fl. 1s, ec. 3s	20 6	4	White post, red top; 13.	
6106.5 <i>E 0525.2</i>	-N. jetty, head.	43° 05.7' N 3° 06.7' E	Oc.(2)G. period 6s lt. 1s, ec. 1s lt. 3s, ec. 1s	20 6	3	White post, green top; 13.	
6107 <i>E 0526</i>	Gruissan.	43° 06.6' N 3° 07.9' E	Fl.(2)R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	39 12	6	Grey structure, red top; 26.	
PORT L'ORB:							
6108 <i>E 0529</i>	-Port de Valras, SW. jetty, head.	43° 14.7' N 3° 18.0' E	Fl.(4)W. period 15s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	30 9	9	Metal structure, red top; 20.	
6112 <i>E 0528</i>	-NE. jetty, head.	43° 14.8' N 3° 18.0' E	Fl.G. period 4s fl. 1s, ec. 3s	30 9	6	Square gallery on white metal column, green top; 16.	
6113 <i>E 0527.2</i>	Bassin des Exals.	43° 10.4' N 3° 10.9' E	Fl.(3)W. period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	79 24	15	Gray metal tower; 33.	Visible 220°-040°.
6114 <i>E 0527.5</i>	Port of Narbonne-Plage, N. jetty.	43° 10.4' N 3° 11.0' E	Fl.G. period 4s	23 7	1	Green post; 13.	
6115 <i>E 0527.52</i>	-S. jetty.	43° 10.4' N 3° 11.0' E	Fl.R. period 4s	23 7	4	Red tower; 13.	
6120 <i>E 0526.2</i>	-N. jetty, head.	43° 06.7' N 3° 07.9' E	Fl.G. period 4s fl. 1s, ec. 3s	36 11	7	White pylon, green top; 30.	
6122 <i>E 0527.7</i>	Embouchure de l'Aude, E. dike, head.	43° 12.7' N 3° 14.6' E	Fl.(2)G. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	33 10	8	Round aluminum structure, green top; 20.	
6122.5 <i>E 0527.8</i>	-W. dike, head.	43° 12.7' N 3° 14.4' E	Fl.R. period 4s fl. 1s, ec. 3s	23 7	5	Aluminum tripod, red top; 13.	
6123 <i>E 0527.65</i>	Mimosa.	43° 13.3' N 3° 15.6' E	Q.(3)W. period 10s		4	E. CARDINAL BYB, beacon, topmark.	Marks stranded wreck.
HERAULT:							
6124 <i>E 0535</i>	-E. jetty, head.	43° 17.0' N 3° 27.0' E	Oc.G. period 4s lt. 3s, ec. 1s	46 14	7	White masonry tower, upper part green; 36.	F.R. lights are shown from 2 radio masts about 3 km. ENE. Horn: 1 bl. ev. 10s (bl. 5s, si. 5s).
6128 <i>E 0534</i>	-W. jetty, head.	43° 16.8' N 3° 26.6' E	Oc.(2)R. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	46 14	7	White masonry tower, upper part red; 36.	
6132 <i>E 0535.4</i>	-La Lauze Beacon, Cap d'Agde.	43° 16.0' N 3° 30.5' E	Fl.G. period 4s fl. 1s, ec. 3s	33 10	5	White tower, green top; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
FRANCE-MEDITERRANEAN SEA							
6136 E 0538	Ile de Brescou, S. of Fort Brescou.	43° 15.8' N 3° 30.1' E	Fl.(2)W.R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	72 22	W. 13 R. 10	White round tower, red top; 46.	R. 113°-190°, W.-113°. 2 F.R. on radio masts 1.9M NW.
6140 E 0536	Rade de Brescou, Agde, E. jetty.	43° 16.1' N 3° 30.4' E	Iso.G. period 4s	26 8	9	White column; dark green top; 16.	
6144 E 0536.2	-W. jetty.	43° 16.1' N 3° 30.3' E	Fl.R. period 4s fl. 1s, ec. 3s	26 8	5	White tower, red top; 16.	
PORT AMBONNE:							
6148 E 0540	-NE. jetty, head.	43° 17.5' N 3° 31.8' E	Fl.(2)G. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s		4	Round mast, green top; 10.	
6152 E 0539	-SW. jetty, head.	43° 17.5' N 3° 31.8' E	Fl.(2)R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	30 9	6	White column, red top; 23.	
6154 E 0542	-W. jetty, head.	43° 19.0' N 3° 33.7' E	Fl.R. period 4s fl. 1s, ec. 3s	23 7	8	White column, red top.	
6162 E 0545	Port des Quilles.	43° 23.5' N 3° 39.9' E	Fl.(3)G. period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	26 8	5	Structure on grey metal framework, green top; 13.	Fl.(3)R. 12s 4M and Fl.G. 2.5s 1M mark head of jetties.
SETE:							
6164 E 0544	-Mont de Sete (Mont St. Clair).	43° 23.7' N 3° 41.4' E	Fl.W. period 5s fl. 0.1s, ec. 4.9s	305 93	29	White octagonal tower, dark green top; 75.	W. (unintensified) 013°-104°, W.-013°.
6168	-Approach buoy.	43° 15.0' N 3° 54.0' E	Iso.W. period 4s			SAFE WATER RW, pillar, topmark.	Whistle. Radar reflector.
6180 E 0546	-Mole Saint-Louis.	43° 23.9' N 3° 42.3' E	Fl.(4)W.R. period 15s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	112 34	W. 15 R. 11	White truncated tower, red lantern; 98.	W. 014°-054°, R.-014°.
6184 E 0552	--S. jetty.	43° 23.7' N 3° 42.2' E	Oc.R. period 4s lt. 3s, ec. 1s	33 10	7	Triangular support, red round topmark; 23.	
6188 E 0551	-Epi Dellon, W. jetty, head.	43° 23.6' N 3° 42.1' E	Oc.G. period 4s lt. 3s, ec. 1s	33 10	6	Green tower; 23.	
6192 E 0550	--E. breakwater, center.	43° 23.8' N 3° 42.6' E	Fl.(3)R. period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	49 15	7	White octagonal tower, red top and base, 26.	Visible 063°-253°.
6196 E 0547	-E. breakwater, center.	43° 23.9' N 3° 43.0' E	Fl.(2)R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	69 21	10	White tower, upper part red; 69.	Visible 080°-268°.
6200 E 0547.5	--E. extremity.	43° 23.9' N 3° 43.8' E	Iso.R. period 4s	66 20	11	White structure, red top; 49.	
6204 E 0547.7	-Digue E.	43° 24.2' N 3° 43.6' E	Iso.G. period 4s	33 10		White pylon, green top.	
6212 E 0548	--W. jetty, head.	43° 24.0' N 3° 42.9' E	Fl.(3)G. period 12s	10 3	5	White tower, green top; 10.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
FRANCE-MEDITERRANEAN SEA							
6214 <i>E 0547.77</i>	-Digue Sud, W. breakwater.	43° 24.4' N 3° 43.6' E	Fl.G. period 2.5s				Not visible from seaward.
6214.1 <i>E 0557.6</i>	--Canal Fluvio.	43° 25.1' N 3° 44.6' E	Fl.(2)W.G. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	26 8	W. 6 G. 4	Gray mast; 13.	W.242°-062°, G.-242°.
6214.2 <i>E 0557.4</i>	--E. breakwater, head.	43° 25.2' N 3° 44.9' E	Fl.(3)R. period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	30 9		Concrete column; 10.	
6216 <i>E 0557.2</i>	Frontignan, E. dike, head.	43° 25.2' N 3° 44.9' E	Fl.(3)G. period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	49 15	7	Concrete structure; 26.	S. dike marked by Fl.(3)R. 12s 6M (head) and Fl.(2)W.G. 6s 6-4M (W. side).
6221 <i>E 0558</i>	--W. dike, head.	43° 25.8' N 3° 46.6' E	Fl.R. period 4s fl. 1s, ec. 3s	30 9	6	Metal column, red top; 23.	
6222 <i>E 0558.2</i>	--E. dike, head.	43° 25.8' N 3° 46.7' E	Fl.G. period 4s fl. 1s, ec. 3s	30 9	9	Metal column, green top; 23.	
6224 <i>E 0556</i>	--W. mole, head.	43° 24.0' N 3° 42.2' E	Q.R.	23 7	6	White column, red top; 16.	Visible within Frontignan Jetty.
6228 <i>E 0557</i>	--E. mole, head.	43° 24.0' N 3° 42.3' E	Q.G.	20 6	8	White column, green top; 13.	Visible within Frontignan Jetty.
6232 <i>E 0555</i>	--Mole Masselin.	43° 24.0' N 3° 42.3' E	Fl.(4)G. period 15s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	26 8	4	White column, green top; 23.	
ETANG DE THAU:							
6236 <i>E 0560</i>	-Canal de Sete, N. entrance, E. side.	43° 24.9' N 3° 41.5' E	Q.G.	26 8	5	White column green top; 23.	
6240 <i>E 0561</i>	--W. side.	43° 24.9' N 3° 41.4' E	Q.R.	26 8	6	White column, red top; 23.	
6241 <i>E 0561.5</i>	-Pointe du Barrou.	43° 25.5' N 3° 40.4' E	Q.W.	20 6	6	N. CARDINAL BY, beacon, topmark; 26.	
6244 <i>E 0562</i>	-Rocher de Roquerols.	43° 25.8' N 3° 40.4' E	Q.(6)+L.Fl.W.R. period 15s	23 7	W. 9 R. 6	S. CARDINAL YB, tower, topmark; 20.	W. 137°-070°, R.-137°.
SETE:							
6248 <i>E 0566</i>	-Meze, E. jetty, head.	43° 25.3' N 3° 36.4' E	Fl.G. period 4s fl. 1s, ec. 3s	26 8	6	White octagonal pyramidal structure, green top; 23.	
GOLFE D'AIGUES-MORTES:							
6260 <i>E 0579</i>	-Montpellier Frejorge, AVIATION LIGHT.	43° 34.7' N 3° 57.1' E	Mo.(Y)W. period 12.5s	52 16		Control tower; 66.	Occasional.
6264 <i>E 0577</i>	-Palavas les Flots, E. jetty.	43° 31.6' N 3° 56.1' E	Fl.(2)G. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	23 7	4	Metal mast; 13.	
6268 <i>E 0576</i>	--W. jetty.	43° 31.6' N 3° 56.1' E	Fl.R. period 4s fl. 1s, ec. 3s	30 9	4	Metal mast; 13.	

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FRANCE-MEDITERRANEAN SEA							
6269 <i>E 0577.4</i>	--Le Lez.	43° 31.7' N 3° 56.1' E	Fl.R. period 2.5s fl. 0.5s, ec. 2s	26 8	2	White tower, red top; 3.	Obscured 270°-090°.
6270 <i>E 0577.5</i>	---Breakwater, head.	43° 31.7' N 3° 56.0' E	Fl.G. period 2.5s fl. 0.5s, ec. 2s	26 8	5	White tower, green top; 19.	
6272 <i>E 0578</i>	-Carnon, SW. jetty.	43° 32.4' N 3° 58.6' E	Fl.(4)R. period 15s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	29 9	7	White column, red top; 20.	Fl.G. 4s on E. jetty.
6276 <i>E 0580</i>	-La Grande Motte, Digue Ouest.	43° 33.1' N 4° 04.9' E	Fl.(2)R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	39 12	7	Red lantern on wall; 39.	
6280 <i>E 0578.2</i>	--Digue Est.	43° 32.5' N 3° 58.7' E	Fl.G. period 4s fl. 1s, ec. 3s	26 8	5	White tower, green top; 20.	
6284 <i>E 0582</i>	--E. jetty, head.	43° 32.1' N 4° 07.9' E	Fl.(3)G. period 15s fl. 0.1s, ec. 2.9s fl. 0.1s, ec. 2.9s fl. 0.1s, ec. 8.9s	33 10	10	White tower, green top; 30.	
	-Port Camargue (Espiguette):						
6288 <i>E 0582.2</i>	--W. jetty, head.	43° 32.1' N 4° 07.9' E	Oc.(2)R. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	30 9	7	White tower base, top red; 30.	
6292 <i>E 0583</i>	--Digue d'arret, (spur of S. jetty), head.	43° 31.3' N 4° 07.4' E	V.Q.(9)W. period 10s	30 9	9	W. CARDINAL Beacon; 23.	
6296 <i>E 0583.2</i>	--W. jetty, head.	43° 31.3' N 4° 07.3' E	Fl.G. period 4s fl. 1s, ec. 3s	30 9	9	White column, green top; 23.	
6300 <i>E 0583.4</i>	--E. jetty, head.	43° 31.3' N 4° 07.4' E	Fl.R. period 4s fl. 1s, ec. 3s	26 8	6	White column, red top; 19.	
6304 <i>E 0584.2</i>	--Entrance, W. head.	43° 30.6' N 4° 07.1' E	Oc.G. period 4s lt. 3s, ec. 1s	23 7	4	White structure, green top; 10.	Visible 059°-345°.
6308 <i>E 0584.4</i>	--E. head.	43° 30.6' N 4° 07.0' E	Oc.R. period 4s lt. 3s, ec. 1s		4	White structure, red top; 10.	Visible 063°-345°.
6312	-SW. Whistle Buoy.	43° 29.1' N 4° 06.5' E	V.Q.(9)W. period 10s			W. CARDINAL YBY, pillar, topmark.	Whistle. Radar reflector.
6316 <i>E 0584</i>	-Channel S. Digue d'arret, head.	43° 30.6' N 4° 06.7' E	Q.(9)W. period 15s	33 10	7	W. CARDINAL YBY, dolphin, topmark; 23.	
6320 <i>E 0586</i>	Pointe de L'Espiguette.	43° 29.3' N 4° 08.5' E	Fl.(3)W. period 15s fl. 0.1s, ec. 2.9s fl. 0.1s, ec. 2.9s fl. 0.1s, ec. 8.9s	89 27	24	White square tower, upper part black; 89.	
6330 <i>E 0590</i>	Port Gardian W. levee, head.	43° 26.8' N 4° 25.4' E	Fl.R. period 4s fl. 1s, ec. 3s	29 9	7	White structure, red top; 16.	Visible 117°-075°.
6331 <i>E 0590.2</i>	-E. levee, head.	43° 26.8' N 4° 25.4' E	Fl.G. period 2.5s fl. 0.5s, ec. 2s	26 8	2	Green tower; 13.	Visible 140°-326°.
6340	<i>Approach Buoy, Saintes Maries-de-la-Mer.</i>	43° 23.0' N 4° 26.0' E	Iso.W. period 4s			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
FRANCE-MEDITERRANEAN SEA							
GOLFE DES SAINTES-MARIES:							
6344 <i>E 0594</i>	-Pointe du Sablom.	43° 21.9' N 4° 35.1' E	Fl.(2)R. period 10s fl. 0.1s, ec. 2.4s fl. 0.1s, ec. 7.4s	85 26		White square tower, dwelling, black lantern; 89.	
6348 <i>E 0592</i>	-La Gacholle, gulf, N. side.	43° 27.3' N 4° 34.2' E	Fl.W.R.G. period 4s fl. 1s, ec. 3s	57 17	W. 12 R. 9 G. 9	White square tower, black top, white lantern and dwelling; 59.	G. 300°-019°, W.-065°, R.- 085°, obsc.-300°.
6352	-Beauduc Buoy.	43° 21.0' N 4° 34.0' E	V.Q.(9)W. period 10s			W. CARDINAL YBY, pillar, topmark.	Radar reflector.
6356 <i>E 0600</i>	Etang de Faraman.	43° 21.4' N 4° 41.3' E	Fl.(2)W. period 10s fl. 0.1s, ec. 2.4s fl. 0.1s, ec. 7.4s	135 41		White masonry tower, black bands; 141.	
GOLFE DE FOS:							
6393 <i>E 0600.5</i>	-Roustan East.	43° 19.1' N 4° 52.0' E	Q.(3)W. period 10s	23 7		E. CARDINAL BYB, beacon, topmark.	
6394 <i>E 0601.05</i>	-Balancelle.	43° 20.4' N 4° 55.4' E	V.Q.(3)W. period 5s	13 4		E. CARDINAL BYB, beacon, topmark.	
6396 <i>E 0604</i>	-Port de Fos, Entrance Range, front.	43° 24.4' N 4° 52.1' E	Q.W.	36 11		Gray pylon, two horizontal red square daymarks; 33.	Intensified 3° each side of range line.
	---Auxiliary light.		V.Q.G.		4		Visible 266°-281°. Covers tank wharf.
6400 <i>E 0604.1</i>	--Rear, 500 meters 287° from front.	43° 24.5' N 4° 51.7' E	Q.W.	95 29		Gray pylon, two vertical red square daymarks; 92.	Intensified 3° each side of range line. Synchronized with front.
6401 <i>E 0603.7</i>	--Mole Graveleau Range, front.	43° 24.1' N 4° 51.5' E	Q.R.	49 15		White metal framework tower, two horizontal orange square daymarks.	Visible 270°-280°.
6402 <i>E 0603.71</i>	---Rear, 340 meters 275° from front.	43° 24.1' N 4° 51.3' E	Q.R.	72 22		White metal framework tower, blue top, orange square daymark.	Visible 270°-280°.
6404 <i>E 0603</i>	-Port-St.-Louis-du-Rhone.	43° 23.1' N 4° 48.3' E	Dir.Q.W.	49 15		Gray square tower, gray lantern; 69.	Intensified 262°-265°.
6408 <i>E 0602</i>	-Canal de St. Louis, S. jetty.	43° 23.4' N 4° 52.3' E	Q.W.R.	47 14	W. 11 R. 8	White tower, red top; 39.	W. 072°-267°30', R.-072°.
6450 <i>E 0605</i>	-Post 1.	43° 24.9' N 4° 53.0' E	Fl.G. period 4s fl. 1s, ec. 3s	20 6		Dark green pylon; 16.	
6452 <i>E 0605.2</i>	-Basin No.1, 340°.	43° 26.0' N 4° 52.2' E	Dir.Oc.W.R.G. period 4s lt. 3s, ec. 1s	82 25	W. 15 R. 12 G. 12	Column; 72.	G. 333°-339°, W.-341°, R.- 344°.
6453 <i>E 0605.4</i>	--LNG pier, head.	43° 26.9' N 4° 51.3' E	Iso.R. period 4s	33 10			
6454 <i>E 0604.5</i>	-Basin No.4, NE. corner.	43° 25.0' N 4° 53.8' E	Q.(6)+L.Fl.W. period 15s	26 8		S. CARDINAL YB, beacon, topmark, on dolphin.	
6456 <i>E 0606.8</i>	-Pointe de S. Gervais.	43° 25.7' N 4° 56.4' E	I.Q.(7)W.R.G. period 12s	148 45	W. 25 R. 21 G. 21	Gray tower, green top; 154.	G. 323°-340°, W.-348°, R.- 007°, obsc.-323°.
6460 <i>E 0606.9</i>	--Yacht Harbor, S. breakwater, head.	43° 25.6' N 4° 56.4' E	Fl.G. period 4s fl. 1s, ec. 3s	22 7		White pylon, green top; 16.	
6464 <i>E 0606.2</i>	-Istres, Le Tube AVIATION LIGHT.	43° 31.0' N 4° 56.8' E	Mo.(F)W. period 4s	193 59		Water tower; 112.	

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FRANCE-MEDITERRANEAN SEA							
6465 <i>E 0606.95</i>	-Lavera.	43° 22.5' N 4° 58.2' E	V.Q.(9)W. period 10s	23 7	8	W. CARDINAL YBY, beacon, topmark.	Radar reflector.
6466 <i>E 0606.98</i>	-Tasques.	43° 23.4' N 4° 58.8' E	Iso.R. period 4s	23 7	3	PORT (A) R, beacon, topmark.	
6468 <i>E 0607</i>	-Port de Bouc, tower fort.	43° 23.6' N 4° 59.1' E	Oc.(2)W.R.G. period 6s lt. 1s, ec. 1s lt. 3s, ec. 1s	98 30	W. 12 R. 9 G. 9	White square tower, gray turret, red gallery; 92.	G. 321°-343°, W.-040°, R.- 087°, W.-112°, R.-140°, R. (unintensified)-230°, obsc.-321°.
6472 <i>E 0607.2</i>	-Saint Antoine.	43° 23.6' N 4° 59.1' E	Fl.Vi. period 5s fl. 0.4s, ec. 4.6s	26 8	11	White tower, dark green top; 20.	Reserve light Iso.Vi. 4s 10M.
6480 <i>E 0608</i>	-N. jetty, head.	43° 23.8' N 4° 59.1' E	V.Q.(2)R.	46 14	6	White tower, red top; 30.	
6484 <i>E 0609.5</i>	-Bassin des Caboteurs, mole, head.	43° 23.7' N 4° 59.3' E	Fl.(2)G. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	16 5	6	White pylon, dark green top; 13.	
6485 <i>E 0609.6</i>	-Fishing Port, breakwater, head.	43° 23.8' N 4° 59.0' E	Fl.(2)R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	10 3	8	White hut, red top; 10.	
6486 <i>E 0609.8</i>	-Marina, E. jetty, head.	43° 24.1' N 4° 59.1' E	Iso.G. period 4s	20 6	6	Metal post; 13.	
6488 <i>E 0609</i>	-Entrance Range, front.	43° 24.2' N 4° 59.6' E	Q.R.	36 11	11	Red pylon, white rectangular daymark, red stripe; 36.	Intensified 027°-047°.
6492 <i>E 0609.1</i>	--Rear, about 167 meters 037° from front.	43° 24.3' N 4° 59.7' E	Q.R.	52 16	15	Red pylon, white rectangular daymark, orange stripe; 43.	Intensified 026°-048°.
6496 <i>E 0609.4</i>	-Entrance Range, front.	43° 24.2' N 4° 59.5' E	Oc.R. period 4s lt. 3s, ec. 1s	36 11	10	White pylon, red top, black square daymark, yellow stripe; 36.	Intensified 020°-040°.
6500 <i>E 0609.41</i>	--Rear, about 184 meters 030° from front.	43° 24.3' N 4° 59.6' E	Oc.R. period 4s lt. 3s, ec. 1s	56 17	10	White pylon, red top, black square daymark, yellow stripe; 36.	Intensified 019°-041°.
- Channel from Port de Bouc to Martigues:							
6504 <i>E 0610</i>	--Entrance, N. side.	43° 24.2' N 5° 00.0' E	Q.R.	30 9	3	Red metal post; 33.	Canal marked by R. and G. lights.
6508 <i>E 0610.2</i>	---S. side.	43° 24.2' N 5° 00.0' E	Q.G.	16 5	4	Gray dolphin, white tank, dark green lantern; 13.	
6509 <i>E 0610.3</i>	--La Gafette, N. side.	43° 24.2' N 5° 00.7' E	Fl.R. period 4s fl. 1s, ec. 3s	30 9	7	Red post; 30.	
6510 <i>E 0610.4</i>	---S. side.	43° 24.2' N 5° 00.7' E	Fl.G. period 4s fl. 1s, ec. 3s	16 5	4	Dolphin, white tank, dark green lantern; 13.	
6512 <i>E 0610.5</i>	--Turning basin, SW. corner.	43° 24.1' N 5° 01.2' E	Q.W.	16 5	6	N. CARDINAL BY, on round tank and dolphin; 13.	
6516 <i>E 0610.6</i>	---SE. corner.	43° 24.1' N 5° 01.5' E	Q.(9)W. period 15s	16 5	6	W. CARDINAL YBY, on round tank and dolphin; 13.	Central and southern viaduct piles are illuminated.
6517.1 <i>E 0610.65</i>	--Labillon, N.	43° 24.2' N 5° 02.4' E	Fl.R. period 4s fl. 1s, ec. 3s		3	PORT (A) R, beacon, topmark; 10.	
6517.2 <i>E 0610.68</i>	---E.	43° 24.2' N 5° 02.5' E	Iso.G. period 4s		2	STARBOARD (A) G, beacon, topmark; 16.	
6518.1 <i>E 0610.7</i>	--Martigues, N. side.	43° 24.3' N 5° 03.1' E	Q.R.	26 8	3	White pylon, red top; 20.	Visible 198°-078°.

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FRANCE-MEDITERRANEAN SEA							
6518.2 <i>E 0610.8</i>	--S. side.	43° 24.3' N 5° 03.1' E	Q.G.	30 9	3	White pylon, green top; 23.	
6519 <i>E 0610.9</i>	-Port Petrolier.	43° 24.3' N 5° 05.6' E	V.Q.W.			N. CARDINAL BY, beacon, topmark.	
6520 <i>E 0611</i>	-Port de la Mede, Trois Freres.	43° 24.3' N 5° 07.1' E	Fl.G. period 4s	66 20	7	White tower, dark green top; 7.	F.R. and F.G. lights along embankment.
6522 <i>E 0616.8</i>	-Les Heures Claires, breakwater, head.	43° 29.9' N 5° 00.0' E	Iso.G. period 4s		5		
6523 <i>E 0616.5</i>	-Saint Chamas, S. breakwater, head.	43° 32.6' N 5° 02.0' E	Fl.G. period 4s	10 3	2	Metal mast; 16.	
6524 <i>E 0615</i>	-Pointe de Berre, jetty, head.	43° 27.6' N 5° 08.6' E	Fl.(4)W.R. period 15s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	39 12	W. 9 R. 6	White column, red lantern; 33.	W. 012°-057°, R.-012°.
6526 <i>E 0615.4</i>	-Port de Berre-l'Etange, W. dike.	43° 28.3' N 5° 10.2' E	Fl.R. period 4s	13 4	4	Hut; 7.	
6528 <i>E 0617</i>	-Anse de Laurons, jetty, head.	43° 21.3' N 5° 01.0' E	Fl.W.R. period 4s	23 7	W. 9 R. 6	White column, red top; 20.	W. 000°-110°, R.-000°.
6529 <i>E 0616.9</i>	--Inner directional.	43° 21.4' N 5° 01.0' E	Dir.Q.W.R.G.	20 6	7		G. 315°-320°, W.-325°, R.- 330°.
6530 <i>E 0619</i>	--Beacon.	43° 21.2' N 5° 01.1' E	Q.(6)W.+L.Fl.W. period 15s		2	S. CARDINAL YB, beacon, topmark; 13.	
6540 <i>E 0620</i>	Carro, jetty, head.	43° 19.8' N 5° 02.6' E	Q.W.R.	26 8	W. 9 R. 6	White column, red top; 13.	W. 322°-355°, R.-322°.
6544 <i>E 0622</i>	Cap Couronne.	43° 19.5' N 5° 03.2' E	Fl.R. period 3s fl. 0.1s, ec. 2.9s	111 34	20	White tower, red top; 102.	Reserve light range 13M.
6548 <i>E 0624</i>	Sausset-Les-Pins, on SW. jetty.	43° 19.7' N 5° 06.5' E	Fl.(3)R. period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	33 10	5	Truncated conical tower; 23.	
6548.5 <i>E 0623.5</i>	-E. jetty.	43° 19.7' N 5° 06.5' E	Fl.(3)G. period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	33 10	2	Truncated conical tower.	
6549 <i>E 0624.7</i>	Carry-Le-Rouet, E. mole, head.	43° 19.7' N 5° 09.2' E	V.Q.G.	30 9	5	Green mast; 20.	
6550 <i>E 0624.8</i>	-Pain de Sucre.	43° 19.6' N 5° 09.1' E	Fl.R. period 2.5s fl. 0.5s, ec. 2s	23 7	5	White truncated conical beacon, red lantern; 16.	
6551 <i>E 0624.9</i>	-Esteo.	43° 19.6' N 5° 09.4' E	Fl.G. period 2.5s fl. 0.5s, ec. 2s	13 4	4	STARBOARD (A) G, beacon, topmark.	
6552 <i>E 0625.3</i>	Ilot Eveline, E. of Cap Mejean.	43° 19.8' N 5° 14.2' E	Q.(6)+L.Fl.W. period 15s	92 28	10	S. CARDINAL YB, tower, topmark; 16.	
6556 <i>E 0625.6</i>	Pointe Esquilladou.	43° 21.0' N 5° 16.7' E	Fl.(4)W.R. period 15s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	144 44	W. 10 R. 7	White column, red top; 13.	R. 233°-263°, W.-041°, obsc.- 233°.
MARSEILLE, NORTH ENTRANCE:							
6560 <i>E 0628</i>	-Port de la Lave, outer mole, head.	43° 21.5' N 5° 18.2' E	Fl.R. period 4s fl. 1s, ec. 3s	36 11	4	White tower, red top; 36.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
FRANCE-MEDITERRANEAN SEA							
6564 <i>E 0630</i>	-Passe de l'Estaque, entrance to Marseille Rhone Canal, mole, head.	43° 21.5' N 5° 18.8' E	Q.R.	36 11	3	White column, red top; 26.	
6568 <i>E 0631</i>	-Drydock No. 10, NW. breakwater, head.	43° 21.3' N 5° 18.8' E	V.Q.(2)W.	66 20	17	White pylon, red top; 56.	
6569.1 <i>E 0630.01</i>	-Port Abri, Passe des Chalutiers, W.	43° 21.4' N 5° 19.0' E	Fl.(3)R. period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	26 8	4	White and red tank; 13.	
6569.2 <i>E 0630.02</i>	---E.	43° 21.4' N 5° 19.0' E	Fl.G. period 4s fl. 1s, ec. 3s	26 8	6	White column, green top; 20.	
6570.1 <i>E 0630.04</i>	--Detached breakwater, W. end.	43° 21.4' N 5° 19.0' E	Q.(9)W. period 15s	16 5	3	W. CARDINAL YBY, topmark; 7.	
6570.2 <i>E 0630.06</i>	---E. end.	43° 21.4' N 5° 19.1' E	Fl.(2)R. period 6s fl. 0.2s, ec. 1.4s fl. 0.2s, ec. 4.2s	13 4	2	Red structure; 7.	
6571 <i>E 0630.2</i>	-Port de Peche Entrance, E. side.	43° 21.3' N 5° 19.4' E	Iso.G. period 4s	26 8	7	White column, green top; 23.	Visible 030°-210°.
6572 <i>E 0634</i>	-Digue Exterieur, N. head.	43° 20.8' N 5° 19.1' E	Fl.G. period 5s fl. 0.3s, ec. 4.7s	49 15	17	White tripod, dark green top; 39.	
6580 <i>E 0635</i>	-Digue de Saumaty, head.	43° 20.9' N 5° 19.2' E	Fl.(2)R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	39 12	8	White tower, red top; 26.	
6584 <i>E 0635.4</i>	-Passe de Saumaty, jetty, head.	43° 21.2' N 5° 19.5' E	Fl.(3)G. period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	23 7	6	Green column on dolphin; 16.	
6588 <i>E 0637</i>	-Passe Leon Gourret, jetty, head, NE. side.	43° 20.7' N 5° 19.7' E	Iso.R. period 4s	32 10	6	Red tank; 26.	
6592 <i>E 0636</i>	--Jetty, head, SW. side.	43° 20.6' N 5° 19.6' E	Iso.G. period 4s	23 7	3	White mast, green top; 30.	Visible 125°-308°.
6596 <i>E 0637.6</i>	-Pass Mirabeau, N. side on jetty, head.	43° 20.9' N 5° 19.8' E	Fl.(2)R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	26 8	6	White column, red top; 20.	
6600 <i>E 0637.2</i>	--S. side, on jetty, head.	43° 20.8' N 5° 19.8' E	Fl.(2)G. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	26 8	6	Green pylon on hut; 20.	Visible 103°-300°.
6604 <i>E 0642</i>	-Passe du Cap Janet, Mole Est.	43° 20.2' N 5° 20.5' E	Fl.R. period 4s fl. 1s, ec. 3s	26 8	6	White column, red top; 20.	
6608 <i>E 0643</i>	--Mole Ouest.	43° 20.1' N 5° 20.5' E	Fl.G. period 4s fl. 1s, ec. 3s	26 8	6	White column, dark green top; 20.	Visible 136°-327°.
6612 <i>E 0646</i>	-Passe de la Madrague, E. side.	43° 19.8' N 5° 20.8' E	Fl.(2)R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	26 8	7	White column, red top; 23.	
6616 <i>E 0644</i>	--W. side.	43° 19.7' N 5° 20.8' E	Fl.(2)G. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	26 8	6	White column, dark green top; 23.	Visible 149°-322°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
FRANCE-MEDITERRANEAN SEA							
MARSEILLE, SOUTH ENTRANCE:							
6620 <i>E 0654</i>	-Digue des Catalans, NW. head.	43° 17.5' N 5° 20.7' E	Fl.(3)G. period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	23 7	6	White pylon, dark green top; 30.	Radar reflector.
6624 <i>E 0656</i>	-Digue Saint Marie, SW. head.	43° 17.8' N 5° 21.2' E	V.Q.(2)R.	65 20	12	White pylon, red top; 66.	
6628 <i>E 0660</i>	-Pointe de la Desirade (Le Pharo).	43° 17.7' N 5° 21.3' E	Fl.G. period 4s fl. 1s, ec. 3s	43 13	9	White tower, green lantern; 49.	Visible 003°-271°.
6632 <i>E 0657</i>	-Passe de la Joilette, Digue Sainte Marie, root.	43° 17.9' N 5° 21.5' E	Oc.(3)R. period 12s lt. 4.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s	23 7	7	Red metal tower; 23.	Visible 195°-060°30'.
6633 <i>E 0655</i>	-Digue du Large, S.	43° 18.3' N 5° 21.6' E	Fl.R. period 2.5s fl. 0.5s, ec. 2s			PORT (A) R, beacon, topmark.	
6634 <i>E 0655.5</i>	--N.	43° 18.5' N 5° 21.7' E	Fl.(2)R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s			Beacon.	
6636 <i>E 0662</i>	-Digue du Fort Saint-Jean, head.	43° 17.9' N 5° 21.5' E	Oc.(3)G. period 12s lt. 4.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s	23 7	7	Dark green tower; 23.	Visible 001°30'-299°. Unintensified 001°30'-009°. 277°-299°.
6640 <i>E 0664</i>	-Fort St. Jean, Vieux Port, entrance, N. side.	43° 17.7' N 5° 21.7' E	Q.R.	36 11	5	Red pylon; 23.	
6644 <i>E 0666</i>	-Fort St. Nicolas, Vieux Port, entrance, S. side.	43° 17.6' N 5° 21.8' E	Iso.G. period 4s	26 8	1	White column, dark green top; 20.	
6648 <i>E 0667</i>	-Tunnel, W.	43° 17.6' N 5° 21.8' E	Fl.G. period 4s fl. 1s, ec. 3s	16 5	3	Dolphin, white lettering, dark green top; 13.	
6652 <i>E 0668</i>	--E.	43° 17.6' N 5° 21.9' E	Fl.(3)G. period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	16 5	3	Dolphin, white lettering, dark green top; 13.	
6656 <i>E 0674</i>	Banc de Sourdaras, ENE. of Ile d'If.	43° 17.0' N 5° 20.3' E	Q.(9)W. period 15s	46 14	7	W. CARDINAL YBY, tower, topmark; 56.	
6660 <i>E 0676</i>	Chateau d'If, S. approach to Marseille, E. point.	43° 16.8' N 5° 19.7' E	Fl.(2)W. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	89 27	11	White tower, red top; 56.	Obscured by Frioul Islands (Pomegues and Ratoneau) 054°-152°.
6662 <i>E 0678.5</i>	Basse Saint Esteve.	43° 16.8' N 5° 19.1' E	Q.(6)+L.Fl.W. period 15s		4	S. CARDINAL YB, beacon, topmark; 10.	
6664 <i>E 0678</i>	Port du Frioul, mole, head.	43° 16.6' N 5° 18.6' E	Iso.G. period 4s	23 7	4	White metal pylon; 16.	
6668 <i>E 0677</i>	Ile Ratoneau.	43° 16.8' N 5° 17.2' E	Fl.(3)G. period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	112 34	7	White column, dark green top; 13.	Obscured 242°-276° and 279°-002°.
6672 <i>E 0679</i>	Cap Caveaux, Ile Pomegues.	43° 15.7' N 5° 17.4' E	Iso.W. period 4s	92 28	7	White support, black top; 7.	Obscured 144°-228°.
6674 <i>E 0681</i>	Port du Prado.	43° 16.0' N 5° 22.1' E	Fl.(2)R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	23 7	4	Pylon; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
FRANCE-MEDITERRANEAN SEA							
6676 <i>E 0682</i>	Pointe Rouge, breakwater, head.	43° 14.8' N 5° 21.8' E	Fl.(2)G. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	33 10	6	White tower, dark green top; 23.	
6678 <i>E 0682.5</i>	Port de la Madrague.	43° 14.0' N 5° 21.2' E	Fl.(3)G. period 12s		3	White metal pylon, green top; 13.	
6680 <i>E 0684</i>	Ile Tiboulen.	43° 12.8' N 5° 19.6' E	Fl.W.G. period 4s fl. 1s, ec. 3s	190 58	W. 11 G. 8	White column, black top; 26.	G. 316°-327°, W.-142°, G.-276°.
6684 <i>E 0683</i>	Les Goudes, W. jetty, head.	43° 13.0' N 5° 20.7' E	Iso.G. period 4s	26 8	2	White metal pyramid, green top; 16.	
6688 <i>E 0680</i>	Ile du Planier.	43° 11.9' N 5° 13.8' E	Fl.W. period 5s fl. 0.1s, ec. 4.9s	223 68	23	White tower; 217.	Obscured by Riou Island shore-284°.
6692 <i>E 0685</i>	Ilot Les Empereurs.	43° 10.2' N 5° 23.7' E	Q.(6)+L.Fl.W.R. period 15s	59 18	7	White mast; 7.	R. 222°-236°, W. 097°, R.-112°.
6696 <i>E 0687</i>	Cassis, S. of Fort des Leques, entrance, W. side.	43° 12.8' N 5° 31.9' E	Fl.R. period 4s fl. 1s, ec. 3s	36 11	6	White column, red top; 26.	Visible 248°-068°.
6700 <i>E 0686</i>	-Mole, head.	43° 12.8' N 5° 32.0' E	Oc.(2)G. period 6s lt. 1s, ec. 1s lt. 3s, ec. 1s	56 17	6	White tower, green top; 56.	Fl.(2)R. 6s marks head of breakwater in Port du Prado 1.2 miles NNE.
6704 <i>E 0690</i>	Banc de la Cassidaigne.	43° 08.7' N 5° 32.8' E	Fl.(2)W. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	59 18	7	ISOLATED DANGER BRB, tower, topmark; 79.	
6708 <i>E 0694</i>	Ciotat, Mole Berouard, entrance, W. side.	43° 10.4' N 5° 36.7' E	Iso.G. period 4s	49 15	11	White conical tower, dark green top; 49.	Unintensified 134°30'-228°30'.
6712 <i>E 0693.3</i>	-Pier, head.	43° 10.3' N 5° 37.0' E	Fl.(3)R. period 12s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 7s	69 21	6	White tower, red top; 59.	
6716 <i>E 0693</i>	-La Ciotat, jetty, head.	43° 10.4' N 5° 37.0' E	Fl.R. period 4s fl. 1s, ec. 3s	59 18	5	White metal tower, red top; 49.	
6720 <i>E 0695</i>	-Yacht basin, S. breakwater, head.	43° 10.5' N 5° 36.8' E	Fl.G. period 4s fl. 1s, ec. 3s	26 8	7	White tower, green top; 16.	
6724 <i>E 0697</i>	-Bassin de Capucins, entrance, E. side.	43° 10.7' N 5° 36.9' E	Fl.(2)R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	23 7	8	White tower, red top; 13.	
6732 <i>E 0698.2</i>	Les Leques, S. breakwater, SW. head.	43° 10.7' N 5° 40.8' E	Iso.G. period 4s	33 10	9	White pylon, green top; 23.	
6736 <i>E 0698</i>	-Elbow.	43° 10.8' N 5° 41.1' E	Fl.(2)R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	26 8	7	Red tower on gray and white base; 16.	
6740 <i>E 0698.4</i>	-Contra jetty, head.	43° 10.8' N 5° 40.9' E	Q.R.	10 3	6	Red tower; 7.	
6742 <i>E 0699</i>	Les Beaumelles, E. jetty, head.	43° 10.1' N 5° 41.6' E	Fl.(4)G. period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	26 8	4	White metal pylon, green top; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
FRANCE-MEDITERRANEAN SEA							
6744 E 0700	Port Bandol.	43° 08.0' N 5° 45.5' E	Oc.(4)W.R. period 12s lt. 5s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s	30 9	W. 13 R. 10	White pylon, red top; 26.	R. 003°-351°, W.-003°.
6748 E 0701	-Jetee Est, head.	43° 08.1' N 5° 45.5' E	Fl.G. period 4s fl. 1s, ec. 3s	7 2		Green metal mast; 3.	
6752 E 0702	Ile de Bandol, Port Abri, E. jetty, head.	43° 07.8' N 5° 45.2' E	Oc.R. period 4s lt. 3s, ec. 1s	16 5	7	White tower, red top; 16.	
6756 E 0702.4	-W. jetty, head.	43° 07.8' N 5° 45.2' E	Fl.(2)G. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	10 3	6	Green column; 7.	
6760 E 0710	Ile de Grand Rouveau.	43° 04.9' N 5° 46.1' E	Oc.(2)W. period 6s lt. 1s, ec. 1s lt. 3s, ec. 1s	148 45	15	White square tower, black lantern; 56.	Obscured by Ile des Embiez 255°-317°. Unintensified 225°-297°.
6764 E 0704	Sanary-sur-Mer, W. jetty, head.	43° 06.9' N 5° 48.1' E	Fl.R. period 4s fl. 1s, ec. 3s	29 9	10	White truncated tower, red top; 30.	Obscured on bearings northward of 069°.
6766 E 0704.5	-Jetty, head.	43° 06.9' N 5° 48.1' E	Fl.(2)G. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	7 2	2	White concrete base, large structure, green top; 3.	
6768 E 0706	Port de la Couduriere, W. mole, head.	43° 05.8' N 5° 48.7' E	Fl.(3)R. period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	26 8	6	Red metal structure; 16.	
6772 E 0708	Le Brusq, NE. jetty, head.	43° 04.7' N 5° 48.2' E	Iso.G. period 4s	10 3	6	Green pylon; 10.	
6776 E 0709	-Jetty, head.	43° 04.6' N 5° 48.2' E	Oc.(3)W.R. period 12s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 4.5s, ec. 1.5s	33 10	W. 9 R. 6	Red pylon; 26.	W. 156°-166°, R.-156°.
6776.5 E 0709.65	-Entrance.	43° 04.8' N 5° 47.2' E	Dir.Oc.W.R.G. period 4s	10 3	W. 9 R. 7 G. 7	Gray pedestal, red lantern; 10.	G. 198°30'-207°, W.-213°, R.-221°30', obsc.-198°30'.
6778 E 0709.75	--Port des Jeunes.	43° 04.7' N 5° 47.2' E	Iso.R. period 4s	7 2	4	Gray pedestal; 3.	
6780 E 0709.4	Ile de la Tour Fondue, N. extremity.	43° 04.8' N 5° 47.4' E	Fl.(4)W.R. period 15s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	20 6	W. 8 R. 6	White square tower, red top; 13.	W. 132°-275°, R.-132°.
6784 E 0709.6	Ile des Embiez, port, N. side of entrance, jetty, head.	43° 04.9' N 5° 47.1' E	Fl.G. period 4s fl. 1s, ec. 3s	16 5	6	Green pylon; 13.	
6788 E 0713	Cap Sicie.	43° 02.9' N 5° 51.6' E	Fl.(2)W. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	154 47	9	White post; 10.	Partially obscured. 2 F.R. lights on radio tower 1.3 km. NW.
6792 E 0712	-Port St. Elme, jetty, head.	43° 04.5' N 5° 53.9' E	Fl.G. period 4s fl. 1s, ec. 3s	30 9	7	Dark green pylon; 23.	
6796 E 0714	-Cap Cepet, (Pointe Rascas).	43° 04.2' N 5° 56.8' E	Fl.(3)W. period 15s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 8.8s	249 76	20	White square tower, black lantern on house with red roof; 46.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
FRANCE-MEDITERRANEAN SEA							
TOULON:							
6820 E 0716	-St. Mandrier, jetty, head.	43° 05.2' N 5° 56.1' E	Fl.(2)R. period 10s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 7.2s	56 17	9	White tower, red top, black base; 46.	Obscured by shore N. of 301°.
6822 E 0717.8	-Ecole de mecaniciens, N. dike, head.	43° 05.0' N 5° 55.8' E	Fl.(2)G. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	13 4	5	Metal mast; 16.	Visible 298°-225°.
6824 E 0719.5	-Anse du Creux-Saint Georges, W. jetty, head.	43° 04.8' N 5° 55.5' E	Fl.G. period 4s fl. 1s, ec. 3s	16 5	5	White structure, green top; 13.	
6828 E 0719	-Pointe de la Vieille, pier, head.	43° 05.1' N 5° 55.3' E	Q.R.	43 13	5	White column, red top; 16.	
6832 E 0717	-Grand Jetty, S. head.	43° 05.4' N 5° 55.5' E	Fl.G. period 2.5s	42 13	11	White tower, black top; 30.	Visible 186°-165°.
6834 E 0741.8	-Appontement de Tamaris.	43° 05.5' N 5° 54.1' E	Dir.Oc.(4)W.R.G. period 12s lt. 1s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s lt. 5s, ec. 1s	10 3	8	Metal post; 10.	G. 338°30'-351°30', W.- 353°30', R.-006°30'.
6835 E 0741.6	-Terre-Plein.	43° 05.0' N 5° 54.0' E	Fl.(3)R. period 12s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 6.5s	13 4	2	White structure, red top; 13.	
6835.1 E 0741.7	-Embarcadere des Sablettes.	43° 04.9' N 5° 53.9' E	Q.W.	10 3	8	N. CARDINAL BY, beacon tower, topmark; 13.	
6835.5 E 0741.2	-Pontoon, head.	43° 04.9' N 5° 54.4' E	Fl.R. period 2.5s fl. 0.5s, ec. 2s		2	White support, red top; 7.	
6836 E 0720	-Petite Passe, jetty, S. head.	43° 06.1' N 5° 55.6' E	Iso.R.G. period 4s	69 21	R. 10 G. 10	White square building; 72.	G. 266°-275°, R.-294°, G.- 145°, obscured elsewhere. 4 F.R. (vert.) lights are shown from a radar tower about 350 meters NE.
6837 E 0721	-Ecueil.	43° 06.3' N 5° 55.5' E	V.Q.(9)W. period 10s	10 3	3	W. CARDINAL YBY, beacon, topmark; 13.	
6840 E 0742	-Port du Mourillon, breakwater.	43° 06.4' N 5° 56.2' E	Oc.(2)G. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	33 10	7	Green column on white hut; 30.	
6844 E 0729	-Darse Vielle, entrance, W. side.	43° 07.1' N 5° 55.8' E	Q.R.	23 7	7	Red pylon; 30.	
6848 E 0730	--Entrance, E. side.	43° 07.1' N 5° 55.8' E	Q.G.	26 8	7	White pylon, green lantern; 30.	Obscured 280°-000° over shoals.
6849 E 0732	--S.	43° 07.1' N 5° 55.8' E	Q.G.	7 2	2	White low wall, green triangular daymark.	
6852 E 0726	-Port du Commerce, N. side of entrance, S. angle of pier.	42° 06.9' N 5° 55.8' E	Oc.(2)R. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	23 7	6	Red mast; 20.	
6856 E 0727	--Entrance, S. side.	43° 06.9' N 5° 55.9' E	Iso.G. period 4s	56 17	7	Dark green structure; 23.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
FRANCE-MEDITERRANEAN SEA							
6860 E 0734	-Graving dock, SW. corner.	43° 06.9' N 5° 55.4' E	Fl.(4)G. period 15s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	7 2	6	Green structure; 3.	
6864 E 0739	-Darse de Missiessy Range, front.	43° 07.2' N 5° 54.7' E	Dir.F.Vi.	30 9	3	White pylon, purple bands, white topmark; 30.	Intensified 349°-354°.
6868 E 0739.1	--Rear, about 210 meters 351°36' from front.	43° 07.4' N 5° 54.7' E	Dir.F.Vi.	52 16	3	White pylon, purple bands, white topmark; 52.	Intensified 349°-354°.
6872 E 0740	--Entrance, W. side.	43° 07.0' N 5° 54.7' E	Iso.R. period 4s	13 4	5	Red pylon; 20.	
6876 E 0740.2	--Entrance, E. side.	43° 07.0' N 5° 54.7' E	Iso.G. period 4s	13 4	5	Dark green pylon; 20.	
6880 E 0740.4	-Bregaillon.	43° 06.5' N 5° 53.6' E	Fl.(3)G. period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	7 2	1	Green structure on dolphin; 39.	
6884 E 0741	-La Seyne, N. side of entrance to basin.	43° 06.2' N 5° 53.0' E	Fl.G. period 4s fl. 1s, ec. 3s	20 6	10	Green column; 20.	
6888 E 0744	Les Salettes, jetty, head.	43° 05.2' N 6° 04.8' E	Oc.(4)W.R. period 12s lt. 1s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s lt. 5s, ec. 1s	42 13	W. 10 R. 7	Red pylon; 26.	R. 005°-356°, W.-005°.
6889 E 0744.2	--Spur.	43° 05.2' N 6° 04.8' E	Fl.R. period 2.5s	7 2	1	White structure, red top; 3.	Visible inside the port.
6890 E 0744.3	-E. breakwater, head.	43° 05.2' N 6° 04.7' E	Fl.G. period 2.5s	7 2	1	White structure, green top; 3.	Visible inside the port.
6892 E 0746	Port du Niel, breakwater, head.	43° 02.1' N 6° 07.7' E	Fl.R. period 4s fl. 1s, ec. 3s	16 5	6	White structure, red top; 7.	Visible 298°-028°.
6896 E 0748	Ile Grand Ribaud.	43° 01.0' N 6° 08.7' E	Fl.(4)W. period 15s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	115 35	15	White tower and dwelling, black lantern; 52.	Obscured when bearing more than 108°, 124°-222°, when bearing less than 233°, and 262°-324°.
6898 E 0748.5	Port Auguier, jetty, head.	43° 01.6' N 6° 08.8' E	Fl.(2)R. period 6s	20 6	2	White structure, red top.	
6900 E 0749	La Tour Fondue, jetty, head.	43° 01.7' N 6° 09.3' E	Iso.G. period 4s	23 7	8	Gray structure, green top; 16.	
ILE DE PORQUEROLLES:							
6904 E 0750	-Ecuels de la Jeune Gard.	43° 00.5' N 6° 09.7' E	Q.W.R.	52 16	W. 6 R. 4	N. CARDINAL BY, beacon, topmark; 59.	W. 011°-253°, R.-282°, W.-316°, R.-011°.
6908 E 0751	Cap-d'Arme.	42° 59.0' N 6° 12.4' E	Fl.(2)W. period 10s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 7.3s	262 80	29	White square tower, black top; 66.	Visible 142°-204°, 243°-252° and 266°-119°.
6912 E 0752	-Port de Porquerolles, new jetty, head.	43° 00.3' N 6° 12.0' E	Oc.(2)W.R. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	26 8	W. 13 R. 10	White column, red top; 20.	W. 150°-230°, R.-150°.
6916 E 0753	Le Capte, E. jetty, head.	43° 04.0' N 6° 09.2' E	Fl.G. period 2s fl. 0.4s, ec. 1.6s	7 2	1	Green structure; 7.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
FRANCE-MEDITERRANEAN SEA							
LA PLAGE:							
6920 E 0754	-NE. jetty, entrance, E. side.	43° 04.8' N 6° 09.8' E	Fl.G. period 4s fl. 1s, ec. 3s	29 9	10	Green tower; 23.	
6924 E 0754.2	-W. jetty, head.	43° 04.8' N 6° 09.5' E	Oc.R. period 4s lt. 3s, ec. 1s	29 9	7	Gray tower, red lantern; 23.	
6928 E 0754.6	-New basin, E. jetty, head.	43° 05.1' N 6° 09.7' E	Iso.G. period 4s	26 8	10	Gray column, green top; 16.	
6932 E 0754.7	--Inner jetty, S. head.	43° 05.0' N 6° 09.7' E	Q.(6)+L.Fl.W. period 15s	26 8	9	S. CARDINAL YB, column; 75.	
6936 E 0754.8	--N. head.	43° 05.1' N 6° 09.6' E	Fl.R. period 4s fl. 1s, ec. 3s	5 2	5	Gray structure, red top; 3.	
6940 E 0755.6	Ceinturon, jetty, head.	43° 06.1' N 6° 10.5' E	Fl.(2)G. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	19 6	6	Green structure; 13.	
6944 E 0756	Les Salins (Port Pothuau), E. jetty, head.	43° 06.9' N 6° 12.1' E	Oc.(3)W.G. period 12s lt. 4.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s	30 9	W. 13 G. 10	Dark green pylon; 26.	G. 260°-285°, W.-012°, G.-060°.
6948 E 0757	-W. jetty.	43° 06.9' N 6° 12.1' E	Fl.(2)R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	20 6	6	Red structure; 20.	
6952 E 0759	Miramar, jetty, S. head.	43° 06.9' N 6° 14.8' E	Fl.(2)G. period 6s	26 8	8	White pylon, green top; 20.	
6953 E 0761	-Maravanne River, E. breakwater, head.	43° 07.0' N 6° 15.0' E	Q.(9)W. period 15s	20 6	6	W. CARDINAL YBY, column, topmark; 13.	
6954 E 0760	-SW. jetty, head.	43° 06.9' N 6° 14.8' E	Fl.(2)R. period 6s	20 6	4	White pylon, red top; 13.	
6955 E 0762	Batterie des Maures.	43° 06.6' N 6° 17.1' E	Q.(9)W. period 10s	26 8	5	W. CARDINAL YBY, beacon, topmark; 16.	
6956 E 0764	Cap Benat.	43° 05.3' N 6° 21.8' E	Fl.R. period 5s fl. 0.2s, ec. 4.8s	198 60	21	White tower, red lantern; 52.	Obscured 096°-207°, 288°-327°, 330°-001°, 042°-060°. Reserve light Fl.R. 6s visible 176°-118°.
6960 E 0765.4	Le Pradet, jetty, head.	43° 05.5' N 6° 22.0' E	Fl.R. period 2s fl. 0.4s, ec. 1.6s	13 4	1	Red pylon; 7.	Occasional.
6964 E 0765	Bormes-Pes-Mimosas, E. jetty, head.	43° 07.5' N 6° 22.0' E	Fl.(2)R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	33 10	10	White pylon, red top; 23.	Fl.R. 2s shown at N. end of wharf of Capitainerie.
6968 E 0766	Le Lavandouj, E. jetty.	43° 08.2' N 6° 22.5' E	Iso.W.G. period 4s	26 8	W. 13 G. 10	Green column, white base; 26.	W. 266°-317°, G.-332°, W.-358°, G.-266°.
6972 E 0765.3	La Fourmiquie, rock.	43° 06.4' N 6° 24.3' E	Fl.(2)W. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	26 8	8	Gray cubic pedestal; 7.	Radar reflector on black and red banded mast, double black ball topmark, 7 meters high, located 3 meters SW. of light.
6974 E 0769	Ile du Levant, Port de l'Avis.	43° 01.7' N 6° 27.2' E	Fl.G. period 4s fl. 1s, ec. 3s	26 8	6	Dark green pylon; 36.	
6975 E 0769.5	--Breakwater, head.	43° 01.7' N 6° 27.4' E	Q.(3)W.R.G. period 5s	46 14	W. 8 R. 7 G. 7		G. 112°-123°, W.-131°, R.-142°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
FRANCE-MEDITERRANEAN SEA							
6976 E 0770	Le Titan.	43° 02.8' N 6° 30.6' E	Fl.W. period 5s	230 70	28	White tower and dwelling, black top; 33.	Visible 154°-044°.
6984 E 0771	Cavalaire, new jetty, head.	43° 10.4' N 6° 32.3' E	Fl.(2)R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	30 9	10	White column, red top; 30.	Fl.G. 2.5s light shown about 130 meters SW.
6988 E 0772	Cap Camarat.	43° 12.1' N 6° 40.8' E	Fl.(4)W. period 15s fl. 0.1s, ec. 2.4s fl. 0.1s, ec. 2.4s fl. 0.1s, ec. 2.4s fl. 0.1s, ec. 7.4s	426 130	26	White square tower, black top; 82.	Visible 190°-049°.
6992 E 0774	Basse de La Moutte.	43° 16.4' N 6° 42.7' E	Q.(3)W.R. period 10s	36 11	W. 9 R. 6	E. CARDINAL BYB, tower, topmark; 39.	R. 009°-121°, W.-009°.
GOLFE DE ST. TROPEZ:							
7000 E 0778	-Sainte Tropez, jetty, head.	43° 16.3' N 6° 38.0' E	Oc.(2)W.R. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	49 15	W. 14 R. 11	Tower, red top; 52.	W. 228°-245°, R.-228°.
7004 E 0779	--S. jetty.	43° 16.3' N 6° 38.0' E	Fl.G. period 4s fl. 1s, ec. 3s		6	Green structure.	
7008 E 0784	-Port de Cogolin, E. jetty, head.	43° 16.1' N 6° 35.6' E	Fl.(2)R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	23 7	10	White structure, red top; 16.	
7012 E 0784.2	--Groyne.	43° 16.1' N 6° 35.5' E	Fl.G. period 2s fl. 0.4s, ec. 1.6s	7 2	1	Dark green structure; 7.	
7014 E 0784.6	--N. head.	43° 16.2' N 6° 35.3' E	Q.W.	19 6	9	N. CARDINAL BY, beacon, topmark; 16.	
7016 E 0786	-Port Grimaud, N. jetty, head.	43° 16.3' N 6° 35.3' E	Fl.G. period 4s fl. 1s, ec. 3s	23 7	10	White structure, green top; 20.	
7018 E 0786.2	--S. spur, head.	43° 16.3' N 6° 35.2' E	Fl.R. period 4s fl. 1s, ec. 3s	23 7	6	White mast, red top; 20.	
7020 E 0790	-Seche a l'Huile.	43° 18.6' N 6° 41.1' E	Q.(6)+L.Fl.W.R. period 15s	30 9	W. 9 R. 6	S. CARDINAL YB, tower, topmark; 52.	R. 075°-216°, W.-075°.
7024 E 0788	-Sainte Maxime-sur-Mer, S. Jetty, head.	43° 18.3' N 6° 38.3' E	Q.(3)G. period 4s	26 8	14	White metal structure, dark green lantern; 16.	
7028 E 0788.4	--W. Jetty, head.	43° 18.3' N 6° 38.2' E	Fl.R. period 2s fl. 0.4s, ec. 1.6s	7 2	1	Red structure; 3.	
7032 E 0791	Les Issambres, S. breakwater, head.	43° 20.4' N 6° 41.1' E	Fl.(2)W.G. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	26 8	W. 11 G. 8	Green column, white base; 16.	W. 289°-349°, G.-289°.
7036 E 0791.4	-W. jetty, head.	43° 20.4' N 6° 41.1' E	Fl.(2)R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	7 2	4	Red structure; 3.	
7038 E 0791.7	Port Ferreol, mole, head.	43° 21.6' N 6° 43.1' E	Fl.W.R. period 4s fl. 1s, ec. 3s	16 5	W. 7 R. 5	White metal structure, red top; 13.	W. 250°-310°, R.-250°.
7039 E 0792.4	Saint Aygulf, E. jetty, head.	43° 23.6' N 6° 43.9' E	Q.R.		6		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
FRANCE-MEDITERRANEAN SEA							
7039.5 <i>E 0792.5</i>	Port-Frejus, S. jetty, head.	43° 25.2' N 6° 45.0' E	Fl.(4)R. period 15s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	23 7	3	White post, red top; 10.	V.Q.W. Aero Control Tower (occas), 700 meters W.
7039.6 <i>E 0792.6</i>	-N. jetty.	43° 25.2' N 6° 45.0' E	Fl.G. period 2.5s fl. 0.5s, ec. 2s	19 6	2	White post, green top; 10.	
7040 <i>E 0792</i>	-St. Raphael, S. jetty, head.	43° 25.4' N 6° 45.9' E	Fl.(3)G. period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	43 13	10	Gray tower, dark green top; 43.	Q.G. 1.2s 2M light 60m S.
7041 <i>E 0792.01</i>	---S. head.	43° 25.3' N 6° 45.8' E	Q.G.	16 5	2	STARBOARD (A) G, topmark.	
7048 <i>E 0793.4</i>	-Santa Lucia, Bassin Nord, W. jetty, head.	43° 25.0' N 6° 46.4' E	Fl.G. period 4s fl. 1s, ec. 3s	26 8	9	Green structure; 20.	
7052 <i>E 0793</i>	--Bassin Sud, W. jetty, head.	43° 24.5' N 6° 46.9' E	Oc.(2)W.R. period 6s lt. 1s, ec. 1s lt. 3s, ec. 1s	33 10	W. 10 R. 7	White pylon, red top; 16.	W. 040°-057°, R.-084°, W.- 122°, R.-040°.
7056 <i>E 0794</i>	--Ilot Lion de Mer.	43° 24.4' N 6° 46.5' E	Iso.W.R. period 4s	52 16	W. 13 R. 10	White structure; 33.	W. 275°-249°, R.-275°.
7060 <i>E 0795</i>	Rade d'Agay.	43° 25.5' N 6° 52.3' E	Oc.W.R. period 4s lt. 3s, ec. 1s	92 28	W. 15 R. 12	White tower, red top; 52.	R. 260°-294°, W.-032°.
7064 <i>E 0795.5</i>	La Chretienne.	43° 25.3' N 6° 53.8' E	Q.(6)+L.Fl.W. period 15s	33 10	8	S. CARDINAL YB, tower, topmark; 43.	
7068 <i>E 0796</i>	La Figueirette, jetty, head.	43° 29.0' N 6° 56.0' E	Fl.(3)W.G. period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	39 12	W. 13 G. 10	White column, green top; 30.	W. 275°-348°, G.-275°.
7070 <i>E 0796.8</i>	La Grande Vaquette.	43° 28.9' N 6° 57.2' E	Q.(3)W. period 10s	23 7	2	E. CARDINAL BYB, buoyant beacon, topmark.	Radar reflector.
7072 <i>E 0797</i>	Port de la Galere, jetty, head.	43° 30.0' N 6° 57.4' E	Q.R.	30 9	7	White tower, red top, La Galere in white; 23.	
7074 <i>E 0797.8</i>	Pointe Saint Marc.	43° 30.0' N 6° 57.5' E	Fl.(2)G. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	23 7	5	STARBOARD (A) G, buoyant beacon, topmark.	Radar reflector.
7076 <i>E 0798</i>	Theoule-sur-mer, E. jetty.	43° 30.6' N 6° 56.4' E	Iso.W.R. period 4s	26 8	W. 9 R. 6	Red tower, red top; 20.	W. 198°-265°, R.-198°.
7080 <i>E 0798.4</i>	La Rague, E. breakwater, head.	43° 30.9' N 6° 56.4' E	Fl.(4)G. period 15s	36 11	8	White tower, green lantern; 23.	
7082 <i>E 0798.6</i>	-W. breakwater, head.	43° 30.9' N 6° 56.3' E	Fl.R. period 2.5s fl. 0.5s, ec. 2s	13 4	2	Red column, white top; 16.	
7084 <i>E 0799</i>	Mandelieu-La Napuole, outer breakwater, head.	43° 31.3' N 6° 56.7' E	Fl.(3)G. period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	30 9	10	White tower, green top; 23.	Q.G. shown at head of spur, inner side. Private light.
7088 <i>E 0799.4</i>	-Inner breakwater, head.	43° 31.4' N 6° 56.7' E	Q.R.		2	Red metal post; 7.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
FRANCE-MEDITERRANEAN SEA							
CANNES:							
7092 E 0801	-LeSecant, SW. point.	43° 32.8' N 7° 01.0' E	Fl.(2)G. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	33 10	4	White tower, green top; 46.	Visible 276°-178°.
7096 E 0800	-W. mole, head.	43° 32.7' N 7° 01.1' E	V.Q.(3)R. period 2s	79 24	8	White hexagonal tower, red top; 72.	Obscured by Iles de Lerins on bearings less than 340°.
7100 E 0803	-Porto-Canto, Jeteo Sud.	43° 32.5' N 7° 01.8' E	Fl.G. period 4s fl. 1s, ec. 3s	35 11	11	Yellow tower, dark green top; 30.	
7104 E 0804	--Jeteo Ouest.	43° 32.5' N 7° 01.9' E	Fl.R. period 4s fl. 1s, ec. 3s	8 2	3	Red column; 13.	Obscured by Jeteo Sud on bearing less than 123°.
7106 E 0809	Port de Moure Rouge.	43° 32.5' N 7° 02.6' E	Fl.(4)W.G. period 15s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	26 8	W. 9 G. 6	White tower, green top; 20.	G. 312°-282°, W.-312°.
7108 E 0805	Iles de Lerins, Les Moines.	43° 30.0' N 7° 03.1' E	Q.(6)+L.Fl.W. period 15s	39 12	9	S. CARDINAL YB, tower, topmark.	
GOLFE-JUAN:							
7112 E 0806	-La Fourmigue, Gulf, entrance.	43° 32.4' N 7° 05.0' E	Fl.(2)W. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	52 16	7	ISOLATED DANGER BRB, tower, topmark; 56.	
7116 E 0808	-Vallauris.	43° 34.1' N 7° 03.7' E	Oc.(2)W.R.G. period 6s lt. 1s, ec. 1s lt. 3s, ec. 1s	548 167	W. 16 R. 12 G. 11	White pyramidal tower, black top; 62.	G. 265°-305°, W.-309°, R.-336°, W.-342°, G.-009°, obsc.-265°.
7120 E 0810	--Jeteo Ouest, head.	43° 33.8' N 7° 04.7' E	Iso.R. period 4s	20 6	9	White column, red top; 20.	Visible 050°-250°.
7122 E 0810.4	--Jeteo du Large, head.	43° 33.8' N 7° 04.7' E	Fl.(2)G. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	33 10	10	White tower, green lantern; 20.	
7124 E 0811	-Port-Galice.	43° 33.8' N 7° 06.8' E	V.Q.(3)G. period 2s	33 10	9	White tower, green top; 26.	
7128 E 0812.2	-Le Crouton, S. breakwater, E. head.	43° 33.6' N 7° 07.1' E	Fl.(2)R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	20 6	5	Red tower, white base; 7.	Visible 138°-091°.
7132 E 0814	-Pointe d'Ilette.	43° 32.6' N 7° 07.3' E	Oc.(3)W.R.G. period 12s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 4.5s, ec. 1.5s	59 18	W. 13 R. 9 G. 9	White tower, black top; 49.	W. (unint.) 185°-235°, W.-045°, R.-056°, G.-070°, R.-090°, W.-135°, obsc.-185°.
7136 E 0818	La Garoupe.	43° 33.9' N 7° 08.0' E	Fl.(2)W. period 10s fl. 0.1s, ec. 2.4s fl. 0.1s, ec. 7.4s	341 104	31	White square tower; 95.	
7140 E 0819	Digue du Large, head.	43° 35.4' N 7° 08.0' E	Fl.R. period 4s	49 15	11	White and yellow tower, red top; 43.	
7144 E 0819.6	-Du Fort Carre, entrance, W. side, head.	43° 35.3' N 7° 07.9' E	Fl.G. period 4s	33 10	5	Yellow tower, green lantern; 23.	Unintensified 218°-003°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
FRANCE-MEDITERRANEAN SEA							
BAIE DES ANGES:							
7160 <i>E 0818.6</i>	-Marina, S. breakwater, head.	43° 37.9' N 7° 08.3' E	Fl.(2)R. period 6s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 3.5s	20 6	7	White tower, red top; 16.	
7164 <i>E 0818.7</i>	--E. breakwater, head.	43° 38.0' N 7° 08.5' E	Fl.(2)G. period 6s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 3.5s	42 13	9	White truncated conical tower, green top; 33.	
7168 <i>E 0821</i>	-St. Laurent-du-Var, breakwater, head.	43° 39.4' N 7° 11.0' E	Fl.(3)G. period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	33 10	8	White tower, green top; 26.	
NICE:							
7184 <i>E 0822</i>	-Outer jetty, head.	43° 41.4' N 7° 17.3' E	Fl.R. period 5s fl. 0.1s, ec. 4.9s	69 21	20	White pyramidal tower, red lantern, white cupola; 72.	
7188 <i>E 0823</i>	-Breakwater, E. side, head.	43° 41.5' N 7° 17.4' E	Fl.G. period 4s fl. 1s, ec. 3s	16 5	7	White column, dark green top; 16.	
7192 <i>E 0824</i>	-Bassin du Commerce, entrance, W. side.	43° 41.5' N 7° 17.3' E	Fl.(2)R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	20 6	7	White column, red top; 16.	
7196 <i>E 0824.2</i>	--E. side, on jetty, head.	43° 41.5' N 7° 17.3' E	Fl.(2)G. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	20 6	7	White column, dark green top; 13.	
7200 <i>E 0825</i>	-Bassin des Amiraux, entrance, W. side.	43° 41.5' N 7° 17.2' E	Fl.(3)R. period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	20 6	6	White column, red top; 16.	
7204 <i>E 0826</i>	--E. side, on jetty, head.	43° 41.6' N 7° 17.2' E	Fl.(3)G. period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	20 6	7	White column, dark green top; 16.	
7208 <i>E 0830</i>	Villefranche.	43° 42.0' N 7° 18.7' E	Q.W.R.	27 8	W. 12 R. 8	White square building, red lantern, white cupola; 30.	R. 009°-286°, W.-311°, R.- 335°, W.-009°.
7210 <i>E 0831</i>	-Jetty, head.	43° 42.0' N 7° 18.6' E	Q.G.	10 3	2		
7212 <i>E 0832</i>	-Mole de la Sante.	43° 42.2' N 7° 18.8' E	Fl.(4)R. period 15s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	33 10	7	White column, top and base red; 20.	
7216 <i>E 0828</i>	Cap Ferrat.	43° 40.5' N 7° 19.7' E	Fl.W. period 3s fl. 0.1s, ec. 2.9s	225 69	25	White octagonal tower, green band at base, green lantern; 112. Floodlit.	Visible 226°-167°.
7220 <i>E 0833</i>	Saint Jean-Cap Ferrat, Jeteo Abri, head.	43° 41.5' N 7° 20.2' E	Fl.(4)R. period 15s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	33 10	8	White truncated tower, red top; 29.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
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FRANCE-MEDITERRANEAN SEA

BEAULIEU-SUR-MER:

7224 E 0836	-Detached breakwater, NE. head.	43° 42.5' N 7° 20.4' E	Q.R.	23 7	10	White truncated tower, red top; 16.	
7226 E 0835	-E. jetty, center.	43° 42.5' N 7° 20.3' E	Q.G.	20 6	7	White post, green top; 10.	
7228 E 0836.2	--SW. head.	43° 42.3' N 7° 20.3' E	Fl.(3)G. period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	23 7	3	White truncated tower, dark green top; 13.	
7232 E 0838	Eze-sur-Mer.	43° 43.0' N 7° 21.2' E	Fl.(2)R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	20 6	9	White column, red base and lantern; 19.	

MONACO

7236 E 0842	-Monte Carlo, N. breakwater, head.	43° 44.2' N 7° 25.7' E	Q.G.		2	Green post; 6.	
7240 E 0840	--S. breakwater, head.	43° 44.1' N 7° 25.7' E	Q.R.		2	Red post; 6.	
7244 E 0839	-Fontvielle, S. jetty, head.	43° 43.7' N 7° 25.4' E	Fl.(2)R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	33 10	10	White metal column, red top; 16.	AERO Mo.(MC)W. 30s 10m (occas), lighted in low visibility 460 meters SW.
7248 E 0839.2	--Buffer jetty, head.	43° 43.7' N 7° 25.4' E	Fl.(2)G. period 6s fl. 1s, ec. 3s fl. 1s, ec. 1s	16 5	7	Green lantern; 3.	
7256 E 0838.4	Cap d'Ail, S. breakwater, SW. extremity.	43° 43.4' N 7° 24.9' E	Fl.G. period 4s fl. 1s, ec. 3s	36 11	10	Green concrete building, green base; 29.	Visible 262°-172°. Synchronized with 7260.
7260 E 0838.42	--NW. extremity.	43° 43.4' N 7° 24.9' E	Fl.G. period 4s fl. 1s, ec. 3s	23 7	6	Green metal structure; 16.	Visible 172°-262°. Synchronized with 7256.
7264 E 0838.44	-W. jetty, head.	43° 43.5' N 7° 25.0' E	Fl.R. period 4s fl. 1s, ec. 3s	16 5		Red metal tower; 13.	

FRANCE-MEDITERRANEAN SEA

7268 E 0848	Menton, jetty, head.	43° 46.5' N 7° 30.7' E	V.Q.(4)R. period 3s fl. 0.2s, ec. 0.5s fl. 0.2s, ec. 0.5s fl. 0.2s, ec. 0.5s fl. 0.2s, ec. 0.7s	56 17	10	White tower, red top; 52.	Obscured by Cap Martin when bearing more than 036°.
7272 E 0849	Menton-Garavan, breakwater, head.	43° 47.0' N 7° 31.4' E	Fl.R. period 4s fl. 1s, ec. 3s	36 11	10	White tower, red top; 33.	
7276 E 0850	-N. mole, head.	43° 47.0' N 7° 31.4' E	Fl.G. period 4s fl. 1s, ec. 3s	10 3	2	White mast, dark green top; 5.	

Section 6

Corsica, Sardinia and Northwest Coast of Italy

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ITALY-WEST COAST							
7280 <i>E 1147</i>	Bordighera, mole, head.	43° 46.8' N 7° 40.7' E	2 F.R. (vert.)	36 11	3	Red post; 26.	Safety distance 100m. Private light.
7284 <i>E 1147.4</i>	Capo Pino, outer breakwater, head.	43° 47.5' N 7° 44.8' E	F.R.	23 7	3	Red post; 16.	Private light.
7288 <i>E 1147.6</i>	-Inner mole, head.	43° 47.5' N 7° 44.8' E	F.G.	23 7	3	Green post; 16.	Private light.
SAN REMO:							
7292 <i>E 1149</i>	-Molo Sud, head.	43° 48.9' N 7° 47.3' E	L.F.I.R. period 5s fl. 2s, ec. 3s	36 11	8	Red column; 16.	Vessels should not pass closer than 25 meters.
7294 <i>E 1149.05</i>	--Finger, mole, head.	43° 48.9' N 7° 47.2' E	F.R.	16 5	2	Red post; 10.	Vessels should not pass closer than 20 meters.
7296 <i>E 1149.2</i>	-Molo Foraneo, head.	43° 48.9' N 7° 47.3' E	L.F.I.G. period 5s fl. 2s, ec. 3s	36 11	4	Green post; 23.	Vessels should not pass closer than 60 meters.
7300 <i>E 1149.08</i>	-Inner breakwater, head.	43° 48.9' N 7° 47.1' E	F.G.	20 6	4	Green post; 6.	
7304 <i>E 1150.4</i>	-Porto Sole.	43° 49.0' N 7° 47.3' E	F.R.	10 3	2	Red post; 6.	Private light.
7308 <i>E 1150.6</i>	--Entrance, S. side.	43° 49.0' N 7° 47.0' E	F.G.	10 3	2	Green post; 6.	Private light.
7312	San Martino, radio tower.	43° 49.2' N 7° 47.7' E	2 F.I.R. period 2.5s fl. 1s, ec. 1.5s	256 78		Radio tower.	Two lights at top.
7316 <i>E 1152</i>	Capo Verde.	43° 49.0' N 7° 49.9' E	Fl.(2)W. period 15s fl. 0.3s, ec. 3.4s fl. 0.3s, ec. 11s	164 50	24	White round tower on white building, black bands; 49.	
IMPERIA:							
7320 <i>E 1156</i>	-Imperia Ponente.	43° 52.5' N 8° 01.7' E	Iso.W. period 4s	36 11	16	White tower; 36.	Visible 210°-090°. Reserve light range 11M.
7328 <i>E 1157</i>	--S. mole, head.	43° 52.4' N 8° 01.8' E	F.I.R. period 3s fl. 1s, ec. 2s	31 9	8	Red column on pedestal; 16.	Safety distance 50m.
7332 <i>E 1158</i>	--N. mole, head.	43° 52.6' N 8° 01.4' E	Fl.G. period 3s fl. 1s, ec. 2s	26 8	8	Green tower; 22.	Visible 252°-044°.
7336 <i>E 1160</i>	--S. mole, root.	43° 52.6' N 8° 01.3' E	F.R.	26 8	3	Red mast; 15.	Visible 102°-290°.
7340 <i>E 1162</i>	-Imperia Levante (Oneglia), E. mole, S. head.	43° 53.0' N 8° 02.5' E	Fl.(2)G. period 7s fl. 1s, ec. 1s fl. 1s, ec. 4s	33 10	8	Green truncated conical tower; 20.	Safety distance 30m.
7344 <i>E 1164</i>	--W. mole, head.	43° 52.1' N 8° 02.5' E	Fl.(2)R. period 7s fl. 1s, ec. 1s fl. 1s, ec. 4s	26 8	8	Red truncated conical tower; 20.	Safety distance 25m.
7348 <i>E 1166</i>	Diana Marina, outer mole, head.	43° 54.5' N 8° 05.2' E	F.G.	30 9	3	Green post; 16.	Private light.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ITALY-WEST COAST							
7352 E 1166.2	-Mole, head.	43° 54.4' N 8° 05.1' E	F.R.	30 9	3	Red post; 16.	Private light.
7356 E 1168	Capo Mele.	43° 57.7' N 8° 09.6' E	Fl.(3)W. period 15s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 8.8s	308 94	24	White octagonal structure, two galleries, attached to red three-story dwelling; 82.	Visible 196°-056°. Aeromarine light. Reserve light range 18M.
7360 E 1169	Laigueglia, on pier.	43° 58.7' N 8° 09.7' E	F.R.	30 9	3	Red post; 23.	Safety distance 10m. Private light.
7364 E 1170	Alassio, T-head pier.	44° 00.3' N 8° 10.4' E	2 F.R.	27 8	2	Red post; 13.	Private light.
7368 E 1171	-Molo Foraneo, head.	44° 01.1' N 8° 11.7' E	Fl.R. period 3s fl. 1s, ec. 2s		5	Red mast; 26.	Private light.
7380 E 1171.4	Loano.	44° 08.0' N 8° 16.1' E	Fl.R. period 3s fl. 1s, ec. 2s		3	Red mast; 23.	Private light.
7384 E 1171.5	-Inner breakwater, head.	44° 07.9' N 8° 16.0' E	Fl.G. period 3s fl. 1s, ec. 2s		3	Green mast; 26.	Private light.
7388 E 1171.6	Pietra Ligure.	44° 08.8' N 8° 17.3' E	F.R.G. (vert.)	33 10 26 8	R. 3 G. 3	Post, red and green bands; 16.	Private light.
7392 E 1171.7	Finale Ligure, harbor mole, head.	44° 10.0' N 8° 22.0' E	2 F.R. (vert.)	29 9 23 7	3	Red post; 19.	Private light.
7395 E 1171.8	-Submerged mole, head.	44° 10.5' N 8° 22.2' E	2 F.G. (vert.)	30 9 23 7	3	Green post; 19.	Private light.
7396 E 1172	Capo di Vado.	44° 15.4' N 8° 27.2' E	Fl.(4)W. period 15s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 5s	141 43	16	White tower and dwelling; 112.	Obscured from the anchorage above Capo di Vado when bearing less than 173° and to the S. when obscured by Bergeggi Island 012°-017°. Reserve light range 11M.
7400 E 1172.8	-Molo do Sopraflutto, head.	44° 16.1' N 8° 27.2' E	Fl.R. period 4s fl. 1s, ec. 3s	33 10	8	Red column on pedestal; 16.	
RADA DI VADO:							
7408 E 1175.1	-Vado Ligure.	44° 15.8' N 8° 26.6' E	Iso.G. period 2s	65 20	2	Post, black and red bands; 66.	At night, in line with Pontile. Occasional. Private light.
			2 F.R. (vert.)	58 18			Formicoke Light, leads to Pontile Shell.
7416 E 1182.3	-Oil terminal.	44° 16.7' N 8° 27.6' E	Fl.Y. period 3s fl. 0.5s, ec. 2.5s	16 5	2	Yellow mast; 13.	Private light.
7420 E 1175	-Pontile Formicoke.	44° 16.0' N 8° 26.9' E	3 F.R.W.R. (vert.)	36 11 33 10 26 8	W. 5 R. 3	Post, white and red bands.	Private light.
7440 E 1180	-Pontile Esso.	44° 16.2' N 8° 26.8' E	3 F.G. (vert.)	31 9 26 8 21 6	3	Green post; 20.	Private light.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ITALY-WEST COAST							
7448 E 1185	-Pontile Enel.	44° 16.5' N 8° 26.9' E	2 F.G. (horiz.)	33 10	3	Green post; 23.	Private light.
7452 E 1185.2	--N. corner.	44° 16.6' N 8° 26.8' E	2 F.R. (horiz.)	33 10	3	Red post; 23.	Private light.
7460 E 1186.1	-Quiliano River, N. side.	44° 16.9' N 8° 26.8' E	Fl.R. period 3s fl. 1s, ec. 2s	59 18	3	Tower, red and white bands, 49.	Private light (occas.).
			2 F.R. (vert.)				
7472 E 1181.9	-Pontile Vadoil Range, front.	44° 16.4' N 8° 26.9' E	3 F.R. (horiz.)	26 8	3	Red post; 10.	Private light.
7476 E 1182	--Rear, 650 meters 264° from front.	44° 16.3' N 8° 26.4' E	Fl.G. period 3s fl. 1s, ec. 2s		3	Green post; 66.	Occasional. Private light.
			2 F.G. (vert.)				
7484 E 1188	-Pontile Chevron.	44° 17.5' N 8° 27.8' E	Fl.Y. period 3s fl. 1s, ec. 2s	20 6	5		Private light.
SAVONA:							
7490 E 1193	--Breakwater extension, head.	44° 18.9' N 8° 30.3' E	Fl.R. period 2s fl. 0.5s, ec. 1.5s	39 12	8	Red column on pedestal; 16.	
7492 E 1193.5	-Mole Frangiflutti, head.	44° 19.0' N 8° 30.0' E	Fl.Y. period 3s fl. 1s, ec. 2s	33 10	4	Yellow post; 10.	Private light.
7496 E 1197	-Molo Miramare, head.	44° 18.8' N 8° 29.5' E	F.G.	33 10	3	Green tower; 26.	
7500 E 1196	-Mole Sottoflutto, head.	44° 19.0' N 8° 29.8' E	Fl.G. period 2s fl. 0.5s, ec. 1.5s	30 9	7	Green column on pedestal; 16.	Safety distance 35 meters.
7504 E 1198	Varazze, Molo Frangiflutti, head.	44° 21.1' N 8° 34.2' E	F.R.	26 8	3	Red post; 10.	To avoid reef, vessels should pass not closer than 40 meters. Private light.
7508 E 1199	-Molo Sottoflutto, head.	44° 21.1' N 8° 34.1' E	F.G.	26 8	3	Green post; 23.	Private light.
7516 E 1201	Arenzano, outer mole, head.	44° 24.0' N 8° 41.3' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	30 9	3	Red post.	Private light.
7520 E 1201.3	-Inner mole, head.	44° 24.0' N 8° 41.0' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	30 9	3	Green post.	Private light.
7524 E 1202.6	-Inner mole, head.	44° 25.0' N 8° 46.7' E	Iso.R. period 2s	36 11	6	Red column; 16.	Private light.
7528 E 1202	-Detached breakwater, W. head.	44° 24.8' N 8° 46.5' E	Iso.W.G. period 2s	52 16	W. 11 G. 8	White round tower, green top.	W. 282°-077°, G.-282°. Private light.
7532 E 1202.4	--Elbow.	44° 24.6' N 8° 47.7' E	Fl.W. period 2s fl. 0.5s, ec. 1.5s	46 14	7	White column.	Obscured within harbor. Private light.
7533 E 1202.2	--E. head.	44° 25.3' N 8° 48.6' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	30 9	6	Red column; 16.	Private light.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ITALY-WEST COAST							
GENOVA-MULTEDO:							
7536 E 7010	-Oil pipeline terminal platform.	44° 24.1' N 8° 48.5' E	Mo.(U)Y. period 15s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 2s, ec. 10s	75 23	7	Yellow post on framework tower; 75.	Private light.
7538 E 7010.5	--SE. oil terminal.	44° 23.7' N 8° 49.9' E	Fl.Y. period 4s fl. 1s, ec. 3s	36 11	6	SPECIAL Y, post, topmark; 26.	Private light.
7540 E 1212	-Molo di Multedo.	44° 25.1' N 8° 49.8' E	Q.R.	33 10	7	Red column;16.	Private light.
7544 E 1208	-Diga Foranea dell Aeroporto, W. head.	44° 24.8' N 8° 49.1' E	Oc.W. period 3s lt. 2s, ec. 1s	33 10	12	White column; 16.	Private light.
GENOVA:							
7556 E 1208.2	-Diga di Cornigliano.	44° 23.9' N 8° 52.9' E	Fl.R. period 2s fl. 0.5s, ec. 1.5s	44 13	7	Red column; 16.	Private light.
7560 E 1208.6	-Diga Foranea.	44° 24.1' N 8° 52.6' E	Q.G.	33 10	5	Green column, 16.	Private light.
7564 E 1208.8	--Spur projecting, N. head.	44° 24.2' N 8° 52.4' E	Fl.G. period 1.5s fl. 0.5s, ec. 1s	23 7	4	Green column.	Private light.
7568 E 1206	-Lanterna.	44° 24.3' N 8° 54.3' E	Fl.(2)W. period 20s fl. 0.2s, ec. 4.8s fl. 0.2s, ec. 14.8s	384 117	25	Tower on terrace; 249.	Reserve light range 18M. Private light.
			Oc.R. period 1.5s	390 119	10	Cupola of same structure; 7.	
7576 E 1218	-Duca di Galliera Mole, old head.	44° 23.8' N 8° 55.9' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	43 13	6	Red column on hut; 20.	Obscured southward 303°- 115°. Private light.
7580 E 1219	--New head.	44° 23.3' N 8° 56.3' E	Fl.R. period 4s fl. 1s, ec. 3s	59 18	15	Red framework tower; 49.	Private light.
7584 E 1220	--New mole, S. head.	44° 23.6' N 8° 56.1' E	Fl.G. period 4s fl. 1s, ec. 3s	46 14	7	Green column on tower; 23.	2 F.G. (vert.) 3M marks pier 150 meters ENE. Private light.
7585 E 1221	--Molo Umberto Cagni, W. head.	44° 23.8' N 8° 55.6' E	Fl.G. period 3s fl. 1s, ec. 2s	33 10	8	Green column; 16.	Private light.
7592 E 1217	-Spur, E. entrance, head.	44° 23.6' N 8° 55.6' E	Fl.R. period 3s fl. 1s, ec. 2s	36 11	7	Red column; 16.	Visible only within confines of harbor. Private light.
7596 E 1216	-Bacino della Lanterna, NE. corner.	44° 23.8' N 8° 55.0' E	Fl.(3)R. period 7s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3.5s	33 10	7	Red column; 16.	Obscured from seaward. Private light.
7600 E 1225	-Calata dolla Sanita, on E. angle.	44° 24.2' N 8° 55.2' E	Fl.R. period 3s fl. 1s, ec. 2s	26 8	7	Red column; 16.	Private light.
7604 E 1226	-Molo Vecchio.	44° 24.4' N 8° 55.2' E	Fl.G. period 3s fl. 1s, ec. 2s	26 8	7	Green truncated conical tower; 16.	Private light.

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ITALY-WEST COAST							
7608 E 1215	-Calata Ollii Minerali.	44° 23.9' N 8° 55.0' E	Fl.(3)G. period 7s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3.5s	33 10	7	Green column on pedestal; 23.	Private light.
7612 E 1230	-Punta Vagno.	44° 23.5' N 8° 57.2' E	L.Fl.(3)W. period 15s fl. 2s, ec. 1s fl. 2s, ec. 1s fl. 2s, ec. 7s	85 26	16	White truncated conical tower; 26.	Reserve light range 11M. Private light.
7620 E 1233	-Nervi, jetty, head.	44° 22.9' N 9° 01.9' E	2 F.R. (vert.)	23 7 19 6	3	Red post; 16.	Safety distance 35m. Private light.
7624 E 1236	Camogli, outer breakwater, head.	44° 21.1' N 9° 09.0' E	Fl.W. period 3s fl. 1s, ec. 2s	36 11	9	White round tower; 16.	F.G., F.R. (vert.) shown from pier on N. side of entrance.
7628 E 1238	-On spur, breakwater, inner side.	44° 21.1' N 9° 09.1' E	Fl.G. period 5s fl. 1s, ec. 4s	21 6	3	Green post; 13.	Visible 110°-335°.
7632 E 1237	-Jetty, at root.	44° 21.1' N 9° 09.1' E	Fl.R. period 5s fl. 1s, ec. 4s	21 6	3	Red post; 16.	
PORTOFINO:							
7636 E 1244	-Punta di Portofino.	44° 17.9' N 9° 13.2' E	Fl.W. period 5s fl. 1s, ec. 4s	131 40	16	Tower, two-story white building; 39.	Visible 155°-098°. Fl.R. lights are shown from several radio masts. Reserve light range 11M. Private light.
7640 E 1246	-Entrance, N. side.	44° 18.2' N 9° 12.8' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	23 7	7	Bracket on building.	
7644 E 1248	-Punta del Coppo.	44° 18.2' N 9° 12.9' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	33 10	7	Red column on pedestal; 16.	
7646 E 1240.7	-Punta del Pedale.	44° 19.2' N 9° 12.8' E	Fl.Y. period 3s fl. 0.5s, ec. 2.5s	13 4	2	SPECIAL Y, post, topmark.	Private light.
7648 E 1254	Santa Margherita Ligure, mole, head.	44° 19.8' N 9° 13.1' E	Fl.R. period 4s fl. 1s, ec. 3s	33 10	8	Red column on pedestal; 16.	
7652 E 1255.5	Rapallo, Molo Langano, head.	44° 20.6' N 9° 14.0' E	FR.G	20 6	3	Post, red and green bands; 20.	G. 220°-040°, R.-220°. Private light.
7656 E 1256.2	Molo di Levante.	44° 20.6' N 9° 14.1' E	2 F.R. (vert.)	23 7 20 6	3	Red post.	Private light.
7657 E 1256	Pennello Boate.	44° 20.7' N 9° 14.0' E	2 F.G. (vert.)	23 7 20 6	3	Green post; 23.	Private light.
7660 E 1255	-Outer breakwater, elbow.	44° 20.6' N 9° 14.1' E	Fl.W. period 3s fl. 1s, ec. 2s	29 9	9	White tower; 16.	Private light.
7664 E 1257	-Molo Foraneo, head.	44° 18.7' N 9° 19.1' E	L.Fl.G. period 6s fl. 2s, ec. 4s	36 11	6	Green column on pedestal; 16.	Safety distance 40m. Private light.
7668 E 1257.2	--Spur.	44° 18.6' N 9° 19.3' E	FG.	16 5	2	Green post; 10.	Safety distance 10m. Private light.
7672 E 1257.4	-Molo Sottofluto, head.	44° 18.7' N 9° 19.3' E	FR.	16 5	2	Red post; 10.	Safety distance 10m. Private light.

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ITALY-WEST COAST							
LAVAGNA:							
7676 E 1257.7	-Molo Foraneo.	44° 18.1' N 9° 20.6' E	L.F.I.R. period 6s fl. 2s, ec. 4s	39 12	6	Red column on pedestal; 16.	Safety distance 60m. Private light.
7680 E 1257.8	--T-head.	44° 18.2' N 9° 20.5' E	F.R.	16 5	2	Red post; 13.	Private light.
7684 E 1257.9	-Molo Sottofluto.	44° 18.2' N 9° 20.6' E	F.G.	16 5	2	Green post; 13.	Private light.
7692 E 1258	Sestri Levante.	44° 16.3' N 9° 23.1' E	F.G.	44 13	3	Green post; 26.	Private light.
GOLFO DELLA SPEZIA:							
7696 E 1262	-Isola del Tino.	44° 01.6' N 9° 51.0' E	Fl.(3)W. period 15s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 8.8s	384 117	25	White round tower; 79.	Reserve light range 18M.
	-RACON		T(-) period 30s		18		
7700 E 1265	-Portovenere.	44° 03.0' N 9° 50.2' E	F.R.	20 6	3	Red column; 13.	Visible 085°-025°. Private light.
7704 E 1265.4	-Molo Olivo, head.	44° 03.1' N 9° 50.3' E	F.G.	20 6	3	Green column; 13.	Private light.
7708 E 1263	-Scoglio Torre della Scuola.	44° 03.1' N 9° 51.6' E	Fl.(2)W. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	52 16	10	White tower; 7.	
-La Spezia:							
7720 E 1268	--Punta Santa Maria.	44° 04.0' N 9° 51.1' E	F.I.R. period 4s fl. 1s, ec. 3s	36 11	9	Red tower; 23.	
7724 E 1269	--Detached breakwater, SW. head.	44° 04.1' N 9° 51.4' E	Fl.G. period 4s fl. 1s, ec. 3s	36 11	9	Green tower; 30.	
7728 E 1323	--Seno di Panigaglia.	44° 04.6' N 9° 50.2' E	2 F.G. (vert.)	26 8 23 7	3	Green pole; 16.	Private light.
7732 E 1300	---Cadimare Mole.	44° 05.2' N 9° 50.0' E	F.I.R. period 3s fl. 0.5s, ec. 2.5s	21 6	5	Red post; 18.	
7736 E 1302	---S. entrance to port, inner detached breakwater, S. head.	44° 05.3' N 9° 50.1' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	21 6	7	Green post; 18.	
7740 E 1304	---Inner detached breakwater, N. angle.	44° 05.6' N 9° 50.1' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	23 7	11	White iron post; 18.	
7744 E 1312	---Entrance Range, front.	44° 05.8' N 9° 49.0' E	Fl.W.R.G. period 3s fl. 1s, ec. 2s	69 21	W. 8 R. 6 G. 6	White truncated pyramidal tower, black stripe; 20.	G. 297°-305°18', W.-306°48', R.-315°. Private light.
7748 E 1312.1	---- Pegazzano , rear, 1.02 km. 306° from front.	44° 06.1' N 9° 48.3' E	Iso.W. period 4s	157 48	16	Pentagonal red and white stone tower; 44.	Visible 302°-310°.
7752 E 1319	--Basin No. 1, entrance, S. side.	44° 05.6' N 9° 49.3' E	F.R.	37 11	3	Red framework tower; 33.	Private light.
7756 E 1318	----N. side.	44° 05.7' N 9° 49.3' E	F.G.	57 17	3	Green post; 52.	Private light.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ITALY-WEST COAST							
7760 E 1292	--Mirabello Molo, N. head.	44° 06.0' N 9° 49.7' E	Iso.R. period 2s	21 6	4	Red tower; 15.	
7764 E 1290	--Italia Molo, head.	44° 06.2' N 9° 50.1' E	Fl.R. period 4s fl. 1s, ec. 3s	26 8	8	Red tower; 25.	
7768 E 1288	--Molo Garibaldi, S. head.	44° 06.2' N 9° 50.3' E	Fl.G. period 4s fl. 1s, ec. 3s	23 7	8	Green structure; 18.	
7772 E 1285.2	--Verzocchi Quay, N. corner.	44° 06.5' N 9° 51.2' E	2 F.R. (vert.)	36 11 30 9	3	Red framework tower; 30.	Private light.
7776 E 1285.4	--S. corner.	44° 06.4' N 9° 51.2' E	2 F.G. (vert.)	36 11 30 9	3	Green framework tower; 30.	Private light.
7780 E 1285	--Pontile ENEL.	44° 06.1' N 9° 51.2' E	2 F.G.R. (vert.)	20 6 13 4	3	Green and red post; 16.	Private light.
7784 E 1284	--Molo dei Pagliari.	44° 06.1' N 9° 51.4' E	2 F.R.G. (vert.)	26 8 21 6	3	Post, red and green bands; 20.	Private light.
7788 E 1283	--Pontile INMA, head.	44° 06.0' N 9° 51.5' E	2 F.G. (horiz.)	26 8	3	Post, red and green bands; 20.	Fl.G. 3s 5M and Fl.R. 3s 5M shown from breakwater heads about 330 meters S. Private light.
			2 F.R. (horiz.)	21 6	3		
7789 E 1282.2	--Porto Lotti entrance, S.	44° 05.9' N 9° 51.4' E	Fl.G. period 3s fl. 1s, ec. 2s	23 7	5	STARBOARD (A) G, post; 16.	Private light.
7790 E 1282.4	--N.	44° 05.8' N 9° 51.5' E	Fl.R. period 3s fl. 1s, ec. 2s	23 7	5	PORT (A) R, post; 16.	Private light.
7792 E 1281.2	--Beacon.	44° 05.7' N 9° 51.8' E	F.R.	23 7	3	Red concrete post; 16.	Private light.
7796 E 1281	--Beacon.	44° 05.6' N 9° 51.8' E	F.G.	23 7	3	Green concrete post; 16.	Private light.
7800 E 1280.2	--Porticiollo San Bartolomeo.	44° 05.6' N 9° 51.9' E	F.R.	20 6	3	Red post; 16.	Fl.R. shown from radio mast about 412 meters N. Private light.
7804 E 1280	---S. side of entrance.	44° 05.6' N 9° 51.8' E	F.G.	20 6	3	Green concrete post; 16.	Private light.
7808 E 1278	--Mole del Muggiano, head.	44° 05.2' N 9° 52.2' E	F.G.	26 8	3	Green concrete post; 20.	Private light.
7812 E 1270	--Outer detached breakwater, E. head.	44° 04.8' N 9° 52.8' E	Fl.(2)R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	33 10	8	Red masonry tower; 26.	
7816 E 1270.2	---Spur, ESE. from extremity.	44° 04.7' N 9° 52.8' E	Iso.R. period 2s	29 9	4	Red metal column; 16.	
7820 E 1274	--Punta Santa Teresa.	44° 04.8' N 9° 52.9' E	Fl.(2)G. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	33 10	8	Green masonry tower; 15.	
7824 E 1324	Lerici.	44° 04.4' N 9° 54.4' E	2 F.G. (vert.)	24 7 19 6	3	Green post.	Private light.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ITALY-WEST COAST							
7828 E 1326	Capo Corvo.	44° 02.1' N 9° 56.6' E	Fl.Y. period 2s fl. 0.5s, ec. 1.5s	16 5	6	SPECIAL Y, beacon, topmark.	Identical beacon 2330 meters NW. Radar reflector.
7832 E 1328	Marina di Carrera.	44° 02.1' N 10° 02.3' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	72 22	17	White quadrangular tower; 72.	Reserve light range 12M.
7833 E 1328.5	-W. breakwater, elbow.	44° 02.0' N 10° 02.1' E	Dir.W.R.G.	105 32	W. 12 R. 10 G. 10	Post; 98.	F.G.-312.8°-315.3°, Al.W.G.- 317.3°, F.W.-318.3°, Al.W.R.-320.3°, F.R.- 322.8°. Private light.
7836 E 1329	-Diga Foranea, head.	44° 01.7' N 10° 02.5' E	Iso.R. period 2s	43 13	16	Red metal column on pedestal; 16.	Safety distance 30m.
7840 E 1330	-Molo di Levante.	44° 01.7' N 10° 02.5' E	Iso.G. period 2s	33 10	16	Green column on pedestal; 16.	Safety distance 35m.
7844 E 1330.4	Marina di Massa.	44° 00.1' N 10° 06.5' E	2 F.G.R. (vert.)	33 10 26 8	3	Red mast, green bands; 20.	Private light.
7848 E 1331	Fiume Cinquale.	43° 58.7' N 10° 08.6' E	F.R.	23 7	3	Red mast; 16.	A F.G. light is shown on S. side of entrance occasionally. Private light.
7852 E 1334	Forte dei Marmi.	43° 57.3' N 10° 09.9' E	F.R.	19 6	3	Red post; 10.	Private light.
7856 E 1340	Viareggio.	43° 51.7' N 10° 14.8' E	Fl.W. period 5s fl. 0.3s, ec. 4.7s	98 30	22	White round tower; 104.	Reserve light range 18M. Private light.
7860 E 1342	-Nuevo Diga Foranea, head.	43° 51.7' N 10° 14.1' E	Iso.G. period 3s	30 9	9	Green post.	
7864 E 1341	- N. mole, head.	43° 51.7' N 10° 14.2' E	Iso.R. period 3s	30 9	7	Red post; 18.	Private light.
FIUME ARNO:							
7868 E 1347	-S. breakwater, head.	43° 40.6' N 10° 16.1' E	F.G.	19 6	3	Green post; 13.	Private light.
7870 E 1347.6	FSRU Toscana.	43° 38.7' N 9° 59.3' E	Fl.(2+1)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 2s, ec. 5s	66 20	5	Platform.	Private light.
SECCHE DELLA MELORIA:							
7872 E 1347.8	-Shoal, N., NW. extremity.	43° 35.5' N 10° 12.6' E	Fl.(2)W. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	59 18	10	Round masonry tower; 66.	
7874 E 1348.5	-Shoal, NE. extremity.	43° 35.3' N 10° 15.5' E	Q.(3)W. period 10s	16 5	7	E. CARDINAL BYB, articulated light, topmark.	
7876 E 1348	-Bank, S. edge.	43° 32.8' N 10° 13.2' E	Q.(6)+L.Fl.W. period 15s	59 18	12	S. CARDINAL YB, tower, topmark; 56.	
LIVORNO (LEGHORN):							
7880 E 1358	-Diga Meloria, head.	43° 33.4' N 10° 17.2' E	Fl.(3)W.G. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	39 12	W. 9 G. 7	Green column on pedestal; 16.	Visible W. 064°-138°, G.- 341°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ITALY-WEST COAST							
7882 E 1359	--520 meters SSE.	43° 33.2' N 10° 17.7' E	Fl.W. period 3s fl. 1s, ec. 2s	33 10	4	White post; 23.	Visible 222°-229°.
7884 E 1370	-Diga Curvilinea, N. head.	43° 33.1' N 10° 17.4' E	Fl.R.G. period 3s fl. 1s, ec. 2s	23 7	5	Column, red and green bands; 16.	G. 160°-288°, R.-048°, obsc.- 160°.
7888 E 1368	--S. head.	43° 32.5' N 10° 17.4' E	Fl.W.R. period 3s fl. 0.2s, ec. 2.8s	72 22	W. 16 R. 12	Octagonal tower; 66.	R. 180°-078°, W.-139°, obsc.- 160°. Reserve light Fl.R. 3s 6M.
7892 E 1356	-Livorno.	43° 32.5' N 10° 17.7' 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	171 52	24	Round masonry tower; 171.	Reserve light range 18M.
	-RACON		L(• - • •) period 30s		19		
7896 E 1360	-Diga Marzocco, head.	43° 33.4' N 10° 17.5' E	Fl.(3)R. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	39 12	7	Red column on pedestal; 16.	
7912 E 1376.2	--Head.	43° 33.1' N 10° 17.8' E	Fl.(2)R. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	26 8	6	Red column on pedestal; 16.	Visible 281°-135°.
7920 E 1380	-Molo Mediceo, head.	43° 32.9' N 10° 17.8' E	Fl.(2)G. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	23 7	5	Green column on pedestal; 16.	Visible only within the harbor.
7924 E 1374	-Diga della Vegliaia, W. head.	43° 32.2' N 10° 17.2' E	Fl.G. period 3s fl. 0.2s, ec. 2.8s	59 18	12	Green round tower; 46.	Visible 330°-240°. Reserve light Fl.G. 3s 6M.
7928 E 1380.2	-Porticciolo San Lacopo.	43° 31.7' N 10° 18.3' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	26 8	3	Green post; 13.	
7932 E 1380.4	-Porticciolo San Leopoldo.	43° 31.4' N 10° 18.5' E	Fl.G. period 8s fl. 1s, ec. 7s	26 8	4	Green post; 16.	
7936 E 1381	-Antignano.	43° 29.8' N 10° 19.3' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	23 7	4	Green column; 13.	
7940 E 1382	-Quercianella.	43° 27.7' N 10° 21.9' E	FR.	23 7	3	Red post; 16.	Private light.

CORSE (CORSICA) (F.)

STRAIT OF BONIFACIO:							
7944 E 0876	-Cap Pertusato.	41° 22.0' N 9° 11.2' E	Fl.(2)W. period 10s fl. 0.1s, ec. 2.4s fl. 0.1s, ec. 7.4s	328 100	25	White square tower, black top with corners; 69.	Visible 239°-113°.
7948 E 0872	-Ile Lavezzi.	41° 20.1' N 9° 15.5' E	Oc.(2)W.R. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	89 27	W. 17 R. 14	Square tower and house, red and white bands; 39.	Partially obscured 138°-218°. W. 243°-351°, R.-243°. Reserve light range 10-7M.
7950 E 0874.5	-Ile Cavallo.	41° 21.7' N 9° 15.9' E	Iso.W.R.G. period 4s	23 7	W. 6 R. 4 G. 4	White tower; 10.	G. 328°-337°, W.-344°, R.- 353°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CORSE (CORSICA) (F.)							
7952 E 0874	-Ecueil Lavezzi Rock.	41° 19.0' N 9° 15.3' E	Fl.(2)W. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	59 18	9	ISOLATED DANGER BRB, tower, topmark; 72.	Reserve light range 8M.
	-RACON		C(- • - •)				
7960 E 0875	-Perduto Rock.	41° 22.0' N 9° 19.0' E	Q.(3)W. period 10s	52 16	11	E. CARDINAL BYB, tower, topmark; 92.	Radar reflector.
7964 E 0878	-Pointe de la Madonetta.	41° 23.1' N 9° 08.8' E	Iso.R. period 4s	92 28	6	Red square tower with gray corners; 39.	
	-Bonifacio:						
7968 E 0886	--Pointe de l'Arenella.	41° 23.3' N 9° 09.1' E	Oc.(2)R. period 6s lt. 1s, ec. 1s lt. 3s, ec. 1s	30 9	3	Red structure on gray base; 30.	Visible 035°-059°.
7976 E 0882	--Point Cacavento.	41° 23.3' N 9° 09.2' E	Fl.G. period 4s fl. 1s, ec. 3s	19 6	5	White pyramidal column, green top; 13.	
7980 E 0888	-Cap de Feno.	41° 23.5' N 9° 05.8' E	Dir.Fl.(4)W. period 15s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	69 21	21	White square tower, black top; 36.	Intensified 109°24'-111°24'. In line 110°25' with Cap Pertusato.
			Fl.(4)W.R. period 15s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	75 23	W. 7 R. 4		R. 150°-270°, W.-150°. Synchronized with directional light. Reserve light range 5/3M.
7984 E 0890	Les Moines.	41° 26.8' N 8° 54.0' E	Q.(6)+L.Fl.W. period 15s	85 26	9	S. CARDINAL YB, tower, topmark; 108.	
7986 E 0889	Caldarello, jetty, head.	41° 28.5' N 9° 04.4' E	Dir.Q.W.R.G. period 1.2s fl. 0.6s, ec. 0.6s		W. 7 R. 6 G. 6	White tower.	G. 026°-035°, W.-037°30', R.- 046°, obsc.-026°.
7988 E 0894	Pointe Senetosa.	41° 33.5' N 8° 47.9' E	Fl.W.R. period 5s fl. 0.1s, ec. 4.9s	177 54	W. 20 R. 16	Two white towers, black top; 49.	R. 306°-328° except where obscured by Pointe Latoniccia, W.-306°.
GOLFE DE VALINCO:							
7992 E 0896	-Propriano, Rocher Longo.	41° 40.7' N 8° 53.8' E	Oc.(3)W.G. period 12s lt. 4.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s	53 16	W. 15 G. 12	White tower, green top; 56.	W. 070°-097°, G.-137°, W.- 002°, obscured elsewhere.
7996 E 0898	--Jeteo Est.	41° 40.7' N 8° 54.0' E	Iso.G. period 4s	36 11	10	White column, dark green top; 23.	Obscured 094°-095° by Rocher Longo Lighthouse.
8000 E 0899	--W. breakwater, head.	41° 40.6' N 8° 54.1' E	Fl.(2)W. period 6s fl. 0.2s, ec. 1.4s fl. 0.2s, ec. 4.2s	6 2		Red structure; 3.	
8001 E 0899.2	--E. breakwater, head.	41° 40.7' N 8° 54.4' E	Fl.(3)G. period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	16 5	6	White structure, dark green top; 10.	
8004 E 0900	Cap de Muro.	41° 44.4' N 8° 39.7' E	Oc.W. period 4s lt. 3s, ec. 1s	187 57	9	White square tower, black top; 20.	Visible 276°-186°. F.R. shown from radio mast 5 miles ENE.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CORSE (CORSICA) (F.)							
AJACCIO:							
8008 <i>E 0908</i>	-Citadelle.	41° 54.9' N 8° 44.5' E	Fl.(2)W.R. period 10s fl. 0.1s, ec. 2.4s fl. 0.1s, ec. 7.4s	62 19	W. 20 R. 16	White round tower, red top; 43.	R. 045°-057°, W. elsewhere.
8012 <i>E 0910</i>	-Jetee de la Citadelle.	41° 55.1' N 8° 44.7' E	Oc.R. period 4s lt. 3s, ec. 1s	43 13	8	White column, red top; 43.	
8016 <i>E 0911</i>	-Jetee des Capucins.	41° 55.3' N 8° 44.6' E	Fl.R.G. period 4s fl. 1s, ec. 3s	26 8	7	White column; 23.	R. 110°-271°30', G.-065°, obsc.-110°.
8020 <i>E 0913</i>	-Jetee de Margonajo.	41° 55.6' N 8° 44.6' E	Fl.(4)Vi. period 15s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	22 7	1	White column; 20.	Lights F.W. and F.R. occasionally shown on a pylon 1 mile E.
8021 <i>E 0912</i>	-Port des Cannes.	41° 55.8' N 8° 44.7' E	Fl.(2)R. period 6s fl. 0.2s, ec. 1.4s fl. 0.2s, ec. 4.2s	16 5	6	White tower, red top; 10.	
8024 <i>E 0914</i>	-Aspretto, outer jetty, head.	41° 55.3' N 8° 45.8' E	Q.R.G.	26 8	8	White column, green top; 16.	G. 035°-300°, R.-035°. Occasional.
8028 <i>E 0915</i>	--Inner jetty, head.	41° 55.3' N 8° 45.9' E	Fl.R. period 4s fl. 1s, ec. 3s	23 7	9	White column, red top; 10.	Occasional.
8032 <i>E 0906</i>	--L'Ecueil de la Citadelle.	41° 54.7' N 8° 44.5' E	Fl.(4)R. period 15s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	33 10	7	Red truncated tower; 43.	
8034 <i>E 0905</i>	-La Guardiola.	41° 54.2' N 8° 43.3' E	Fl.R. period 2.5s	20 6	2	Red tower; 33.	
8036 <i>E 0902</i>	Iles Sanguinaires.	41° 52.7' N 8° 35.7' E	Fl.(3)W. period 15s fl. 0.1s, ec. 3.9s fl. 0.1s, ec. 3.9s fl. 0.1s, ec. 6.9s	321 98	24	White square tower, black top, on white building; 59.	
8038	Cargese, S. jetty, head.	42° 07.9' N 8° 35.9' 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	23 7	W. 9 R. 6	White tower, red top; 10.	R. 025°-325°, W.-025°.
8038.5	-N. jetty, head.	42° 07.9' N 8° 35.8' E	Fl.(3)G. period 12s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 6.5s	13 4	2	White pole, green top.	
8040 <i>E 0916</i>	Ile Gargalu, NW. point.	42° 22.3' N 8° 32.0' E	Fl.W.R. period 4s fl. 1s, ec. 3s	121 37	W. 8 R. 6	Black and white column; 23.	W. 348-214°, R.-348°. Obscured 221°-345°.
8044 <i>E 0918</i>	Pointe Revellata.	42° 34.9' N 8° 43.5' E	Fl.(2)W. period 10s fl. 0.1s, ec. 2.4s fl. 0.1s, ec. 7.4s	318 97	21	Square white tower, black top and corners; 62.	Visible 060°-002°. Reserve light Fl.(2)W. 10s.
8048 <i>E 0919</i>	-Cala Revellata.	42° 34.8' N 8° 43.6' E	Fl.G. period 4s fl. 1s, ec. 3s	16 5	6	White tower, dark green top; 13.	
8052 <i>E 0920</i>	Calvi, foot of citadel.	42° 34.0' N 8° 45.8' E	Oc.(2)G. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	98 30	8	White six-sided tower, green top; 20.	Visible 095°-005°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CORSE (CORSICA) (F.)							
8056 <i>E 0922</i>	-Pier, head.	42° 33.9' N 8° 45.8' E	Q.G.	33 10	8	White square tower, dark green top; 33.	
8060 <i>E 0923</i>	-Breakwater, head.	42° 33.9' N 8° 45.7' E	Fl.R. period 4s	19 6	7	White structure, red top; 13.	
8064 <i>E 0924</i>	Sant-Ambrogio.	42° 36.1' N 8° 49.8' E	Fl.G. period 2s fl. 0.4s, ec. 1.6s	23 7	2	White post, green top; 20.	A Fl.R. light is shown at head of SW. jetty.
8068 <i>E 0926</i>	Ile-Rousse-La Pietra.	42° 38.6' N 8° 56.0' E	Fl.(3)W.G. period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	209 64	W. 14 G. 11	White square tower, green top; 43.	G. shore-079°, W.-234°, G.-shore.
8072 <i>E 0928</i>	-Shelter wall of jetty, head.	42° 38.4' N 8° 56.4' E	Iso.G. period 4s	39 12	8	White masonry tower, green top; 13.	Obscured 111°-143°.
GOLFE DE SAINT-FLORENT:							
8076 <i>E 0930</i>	-Punta Mortella.	42° 43.0' N 9° 15.4' E	Oc.G. period 4s lt. 3s, ec. 1s	140 43	8	Square white tower, green top; 46.	
8080 <i>E 0935</i>	-Pointe Vecchiaia.	42° 42.9' N 9° 19.5' E	Fl.(3)W.R. period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	115 35	W. 10 R. 7	White tower, red top; 16.	W. 035°-174°, R.-035°.
8084 <i>E 0932</i>	-Cap Fornali.	42° 41.3' N 9° 16.9' E	Fl.G. period 4s fl. 1s, ec. 3s	46 14	6	Square white tower, green edges and top; 36.	
8088 <i>E 0934</i>	-Tourelle Tignoso.	42° 40.9' N 9° 17.7' E	Fl.R. period 4s fl. 1s, ec. 3s	19 6	3	Red tower; 30.	
8092 <i>E 0933</i>	-Saint Florent.	42° 40.8' N 9° 17.9' E	Fl.(2)W.R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	20 6	W. 9 R. 6	White truncated column, red top; 16.	R. 116°-080°, W.-116°.
8096 <i>E 0933.2</i>	--S. jetty, head.	42° 40.7' N 9° 18.0' E	Fl.(2)G. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	13 4	3	White structure, green top; 10.	
8098 <i>E 0853</i>	Centuri.	42° 58.0' N 9° 21.0' E	Fl.G. period 4s	23 7	6		Fl.R. 4s 2m 2M close SE.
8100 <i>E 0852</i>	Cap Corse.	43° 01.6' N 9° 24.4' E	Fl.W. period 5s fl. 0.1s, ec. 4.9s	278 85	28	White tower, black top; 85.	Visible 057°-314°.
8104 <i>E 0854</i>	Macinaggio.	42° 57.6' N 9° 27.4' E	Fl.(2)W.R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	26 8	W. 11 R. 8	White tower, red top; 26.	R. 120°-218°, W.-331°, R.-000°, R. (unint.) -120°. Fl.(2)G. 6s 2M marks N. spur head.
8108 <i>E 0855</i>	Capo Sagro.	42° 47.8' N 9° 29.5' E	Fl.(3)W. period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s		10	White tower, green top; 13.	
8110 <i>E 0862</i>	Toga.	42° 42.6' N 9° 27.4' E	Q.R.	33 10	4	White tower, red top; 20.	
8110.5 <i>E 0862.6</i>	-N. breakwater, head.	42° 42.6' N 9° 27.4' E	Q.G.		2	White masonry tower; 13.	
BASTIA:							
8112 <i>E 0856</i>	-Jeteo du Dragon, N. head.	42° 41.7' N 9° 27.2' E	Fl.W.R. period 4s fl. 1s, ec. 3s	52 16	W. 15 R. 12	Gray tower, red lantern; 43.	R. (unint.) 040°-130°, R.-215°, W.-325°, R.-040°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CORSE (CORSICA) (F.)							
8116 <i>E 0861</i>	-Mole, head.	42° 42.0' N 9° 27.2' E	Fl.(2)R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	6 2	4	White column, red top; 3.	Visible 153°-026°.
8120 <i>E 0858</i>	-Genois Mole, head.	42° 41.7' N 9° 27.2' E	Fl.(2)G. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	43 13	4	Gray tower, green top; 29.	
8124 <i>E 0860</i>	-Jetee St. Nicoles.	42° 41.9' N 9° 27.3' E	Fl.G. period 4s fl. 1s, ec. 3s	29 9	11	Stone tower, green top; 16.	
8132 <i>E 0863</i>	Campoloro.	42° 20.5' N 9° 32.5' E	Fl.R. period 4s fl. 1s, ec. 3s	23 7	6	White support, red top; 16.	
8136 <i>E 0864</i>	Ruisseau d'Alistro.	42° 15.6' N 9° 32.5' E	Fl.(2)W. period 10s fl. 0.1s, ec. 2.4s fl. 0.1s, ec. 7.4s	305 93	22	Gray octagonal tower, black top, red dwelling; 89.	
8137 <i>E 0865</i>	Solenzara.	41° 51.4' N 9° 24.3' E	Iso.G. period 4s		3		
8138 <i>E 0865.2</i>	-Quay.	41° 51.5' N 9° 24.3' E	Oc.(2)R. period 6s		3		
GOLFE DE PORTO VECCHIO:							
8148 <i>E 0866</i>	-Pointe de Chiappa.	41° 35.7' N 9° 22.0' E	Fl.(3+1)W. period 15s fl. 0.1s, ec. 2.4s fl. 0.1s, ec. 2.4s fl. 0.1s, ec. 4.9s fl. 0.1s, ec. 4.9s	213 65	23	White square tower, red top; 69.	Visible 198°-027°.
8152 <i>E 0866.4</i>	-Tourelle Pecorella.	41° 36.7' N 9° 22.3' E	Fl.(3)G. period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	39 12	6	White tower, green top; 46.	
8156 <i>E 0867</i>	-Pointe St. Cyprien.	41° 37.0' N 9° 21.4' E	Fl.W.G. period 4s fl. 1s, ec. 3s	85 26	W. 11 G. 8	White square tower, black cupola; 43.	W. 220°-281°, G.-299°, W.- 072°, G.-084°, obsc.- 220°.
8160 <i>E 0869</i>	-Pointe Sud de Pozzoli.	41° 36.6' N 9° 17.5' E	Oc.(2)W.R.G. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	33 10	W. 15 R. 13 G. 13	Truncated white tower, black top; 16.	G. 258°42'-271°42' W.- 275°12', R.-288°12', obsc.-258°42'.
8164 <i>E 0870.3</i>	-La Ciocca, tower.	41° 35.4' N 9° 17.5' E	Fl.R. period 2s fl. 0.4s, ec. 1.6s	10 3	2	Red truncated tower; 16.	
8168 <i>E 0870</i>	-Porto Vecchio.	41° 35.2' N 9° 17.5' E	Iso.W.R.G. period 4s	29 9	W. 11 R. 10 G. 10	White pylon, red top on NW. angle of hangar.	G. 208°30'-223°30', W.- 225°30', R.-shore.
8172 <i>E 0870.6</i>	-S. jetty.	41° 35.4' N 9° 17.2' E	Fl.(2)R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	16 5	6	White tower, red top; 13.	Visible 212°-302°.
8176 <i>E 0870.8</i>	-N. jetty.	41° 35.5' N 9° 17.3' E	Fl.(2)G. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	13 4	5	White tower, green top; 7.	Visible 200°-290°.
8180 <i>E 0871.5</i>	<i>Iles Cerbicales La Vacca, 2 Buoy.</i>	41° 32.7' N 9° 24.0' E	Q.(3)W. period 10s			E. CARDINAL BYB, pillar, topmark.	Radar reflector.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SARDEGNA (SARDINIA) (I.)							
STRAIT OF BONIFACIO:							
8188 <i>E 0942</i>	-Isola Santa Maria.	41° 17.4' N 9° 23.1' E	Fl.(4)W. period 20s fl. 1s, ec. 3s fl. 1s, ec. 3s fl. 1s, ec. 3s fl. 1s, ec. 7s	56 17	10	White two-story dwelling; 39.	Visible 173°-016°.
8192 <i>E 0946</i>	-Isola Corcelli.	41° 18.1' N 9° 24.1' E	Fl.(2)W. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	72 22	11	ISOLATED DANGER BRB, tower, topmark; 39.	
8196 <i>E 0940</i>	-Isola Razzoli.	41° 18.4' N 9° 20.4' E	Fl.W.R. period 2.5s fl. 0.1s, ec. 2.4s	253 77	W. 19 R. 15	Stone tower; 39.	W. 022°-092°, R.-137°, W.- 237°, R.-320°. Reserve light range W.-17M, R.-13M.
	-RACON		M(- -) period 30s		6		
8200 <i>E 0936</i>	-Longonsardo (Santa Teresa de Gallura).	41° 14.6' N 9° 12.0' E	Fl.W.R. period 3s fl. 1s, ec. 2s	37 11	W. 10 R. 8	White hut; 23.	R. 030°-164°, W.-184°, R.- 210°.
8204 <i>E 0937</i>	-Entrance Range, front.	41° 14.2' N 9° 11.7' E	Oc.R. period 4s lt. 3s, ec. 1s	39 12	3	Green and white pile, white rectangular daymark, black stripe; 33.	Visible 181°30'-211°30'.
			F.G.	20 6	3		
For other lights in Bonifacio Strait, see Cap Pertusato.							
8204.1 <i>E 0937.1</i>	--Rear, 1280 meters 196°30' from front.	41° 13.7' N 9° 11.5' E	Fl.R. period 4s fl. 1s, ec. 3s	148 45	7	White pile, white rectangular daymark, black stripe; 16.	Visible 151°30'-241°30'.
8208 <i>E 0938</i>	-Capo Testa.	41° 14.6' N 9° 08.7' E	Fl.(3)W. period 12s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 6.8s	220 67	22	White tower on two-story dwelling; 75.	Visible 017°-256°. Reserve light range 17M.
8212 <i>E 1130</i>	Isola Asinara.	41° 07.2' N 8° 19.1' E	Fl.(4)W. period 20s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 10s	262 80	16	White round tower on three-story dwelling; 115.	Reserve light range 13M.
GOLFO DELL'ASINARA:							
-Porto Torres:							
8216 <i>E 1138</i>	--Porto Torres.	40° 50.1' N 8° 23.9' E	L.Fl.(2)W. period 10s fl. 2s, ec. 2s fl. 2s, ec. 4s	147 45	16	Tower on two-story white house; 66.	Reserve light range 12M.
8220 <i>E 1140</i>	--E. breakwater, head.	40° 50.7' N 8° 24.0' E	L.Fl.R. period 6s fl. 2s, ec. 4s	36 11	8	Red column on hut; 16.	F.R. and F.G. light is shown at entrance to basin near root of breakwater.
8224 <i>E 1139</i>	--W. breakwater, head.	40° 50.9' N 8° 24.0' E	L.F.G. period 6s fl. 2s, ec. 4s	37 11	11	Green column on hut; 30.	Reserve light range 8M.
	--RACON		P(• - - •) period 30s		6		
8232 <i>E 1141</i>	--Pontile del Faro.	40° 50.4' N 8° 24.0' E	2 F.R.G. (vert.)	23 7 19 6	3	Red post, green bands; 16.	2 F.G. (vert.) marks head of W. mole.

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SARDEGNA (SARDINIA) (I.)							
8236 <i>E 1136.8</i>	--Pontile de Levante.	40° 50.9' N 8° 22.8' E	Fl.(3)R. period 10s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	33 10	4	Red column; 23.	Private light.
8244 <i>E 1136.32</i>	--E. head.	40° 51.0' N 8° 23.1' E	Fl.(3)G. period 10s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	31 9	4	Green column; 23.	Private light.
8248 <i>E 1136.6</i>	-Pier No. 1, S.I.R. terminal.	40° 50.9' N 8° 22.4' E	2 F.G.R. (vert.)	23 7 20 6	3	Red post, green bands.	Private light.
8249 <i>E 1136.4</i>	--W. Range, front.	40° 50.2' N 8° 22.3' E	Iso.G. period 2s 2 F.G. (vert.)	89 27 79 24	2	Metal post, white rectangular daymark, black stripe; 98.	Visible 135°-225°. Private light.
8249.1 <i>E 1136.41</i>	---Rear, 120 meters 180° from front.	40° 50.1' N 8° 22.3' E	F.G. Oc.G. (vert.) period 4s	115 35 105 32	2	Metal post, black rectangular daymark, white stripe; 92.	Visible 135°-225°. Private light.
8250 <i>E 1136.5</i>	--E. Range, front.	40° 50.2' N 8° 22.5' E	Iso.R. period 2s F.R. (vert.)	52 16 43 13	2	Pylon, white square daymark, black stripe; 56.	Visible 135°-225°. Private light.
8250.1 <i>E 1136.51</i>	---Rear, 120 meters 180° from front.	40° 50.1' N 8° 22.5' E	F.R. Oc.R. (vert.) period 4s	75 23 66 20	2	Pylon, black square daymark, white stripe; 49.	Visible 135°-225°. Private light.
8252 <i>E 1136.55</i>	-Pier No. 2, S.I.R. Terminal.	40° 50.8' N 8° 21.4' E	2 F.G. (vert.)	33 10	3	Green post; 16.	Private light.
8262 <i>E 1135</i>	-Fiumo Santo Power Plant.	40° 51.5' N 8° 18.3' E	Fl.Y. period 3s fl. 0.5s, ec. 2.5s	20 6	3	Yellow tower; 13.	Marks watering place. Private light.
8264 <i>E 1134</i>	-Stintino.	40° 56.2' N 8° 13.8' E	Fl.R. period 4s fl. 1s, ec. 3s	19 6	4	Red post.	Private light.
8264.5 <i>E 1134.4</i>	-Mole, head.	40° 56.2' N 8° 13.8' E	Fl.G. period 4s fl. 1s, ec. 3s	20 6	8	Green post.	Private light.
8265 <i>E 1133.5</i>	-Punta Salippi.	40° 59.2' N 8° 12.7' E	Fl.W.R.G. period 3s fl. 1s, ec. 2s	20 6	W. 5 R. 4 G. 4	White beacon tower, black stripes; 16.	G. 293°18'-297°, W.-305°, R.-308°42'.
8266 <i>E 1133</i>	--Passaggio dei Fornelli.	40° 59.2' N 8° 13.5' E	Fl.W.R.G. period 3s fl. 1s, ec. 2s	20 6	W. 6 R. 4 G. 4	White beacon tower, black stripes; 13.	G. 065°12'-068°12', W.-076°12', R.-079°12'.
8268 <i>E 1132</i>	-Rada della Reale.	41° 03.2' N 8° 17.7' E	Fl.W.R. period 5s fl. 0.5s, ec. 4.5s	36 11	W. 7 R. 5	White round tower; 36.	R. 297°-320°, W.-297°.
PORTO CONTE:							
8276 <i>E 1124</i>	-Capo Caccia.	40° 33.6' N 8° 09.8' E	Fl.W. period 5s fl. 0.2s, ec. 4.8s	610 186	24	White tower on three-story dwelling; 79.	Reserve light range 18M.
8280 <i>E 1126</i>	-Porto Conte.	40° 35.6' N 8° 12.3' E	Fl.W. period 3s fl. 1s, ec. 2s	57 17	10	White tower; 26.	

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SARDEGNA (SARDINIA) (I.)							
8284 <i>E 1122</i>	Isolotto della Maddalena.	40° 34.3' N 8° 18.1' E	Fl.R. period 5s fl. 1s, ec. 4s	33 10	4	White truncated conical tower, red bands; 20.	
8285 <i>E 1122.6</i>	--Inner breakwater, head.	40° 35.4' N 8° 17.4' E	F.G.	23 7	3	Green post; 16.	Private light.
PORTO ALGHERO:							
8286 <i>E 1117</i>	-S. mole, head.	40° 33.9' N 8° 18.3' E	Fl.G. period 3s fl. 1s, ec. 2s	33 10	8	Green column; 20.	
8288 <i>E 1117.2</i>	--Molo di Sottoflutto, head.	40° 32.9' N 8° 18.5' E	Fl.R. period 3s fl. 1s, ec. 2s	33 10	8	Red column; 20.	
8292 <i>E 1118</i>	-Pier, head.	40° 33.6' N 8° 18.7' E	F.G.	23 7	3	Green post; 20.	
8296 <i>E 1119</i>	-N. breakwater, head.	40° 33.7' N 8° 18.8' E	F.R.	23 7	3	Red post; 20.	
8300 <i>E 1120</i>	Alghero AVIATION LIGHT.	40° 38.0' N 8° 17.0' E	Al.FI.W.G.				Occasional. Private light.
8308 <i>E 1116.4</i>	-E. side, mole, head.	40° 17.2' N 8° 28.6' E	F.R.	26 8	3	Red post; 23.	
8309 <i>E 1116.5</i>	-Outer mole, head.	40° 17.1' N 8° 28.5' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	36 11	11	Red post; 20.	Reserve light range 8M.
8312 <i>E 1112</i>	Capo Mannu.	40° 02.2' N 8° 22.8' E	Fl.(3)W. period 12s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 7.2s	195 59	15	White tower on dwelling; 36.	
8316 <i>E 1111</i>	Isolotto di Mal di Ventre, highest point.	39° 59.5' N 8° 18.3' E	Fl.W.R. period 6s fl. 1s, ec. 5s	85 26	W. 11 R. 8	Round tower on hut; 26.	R. 004°-020°, W.-004°.
8320 <i>E 1108</i>	-Capo San Marco.	39° 51.6' N 8° 26.1' E	Fl.(2)W. period 10s fl. 0.2s, ec. 2s fl. 0.2s, ec. 7.6s	187 57	22	Round tower on two-story dwelling; 49.	Visible 215°-155°. Reserve light range 18M.
			L.FI.R. period 5s fl. 2s, ec. 3s	180 55	12	Same structure.	Visible 097°30'-102°30'.
8324 <i>E 1106</i>	-Torre Grande.	39° 54.4' N 8° 31.1' E	Fl.R. period 5s fl. 1s, ec. 4s	60 18	8	Round tower; 52.	
8332 <i>E 1107.2</i>	--Pontile Sipsa, head.	39° 53.4' N 8° 32.2' E	2 F.R.G. (vert.)	30 9 26 8	3	Red and green post; 20.	Private light.
8336 <i>E 1107.6</i>	--Pontile Perlite, head.	39° 53.7' N 8° 32.0' E	2 F.G.R. (vert.)	42 13 39 12	3	Green and red post; 36.	Private light.
8344 <i>E 1105.2</i>	--Oristano.	39° 51.9' N 8° 32.6' E	L.FI.R. period 5s fl. 2s, ec. 3s	33 10	7	Red column; 16.	
8353 <i>E 1104.2</i>	--Mole, head.	39° 49.6' N 8° 33.1' E	Fl.Y. period 3s fl. 0.5s, ec. 2.5s	16 5	3	Yellow post; 7.	Private light.
8356 <i>E 1104</i>	-Capo Fresca.	39° 46.1' N 8° 27.4' E	Fl.W. period 6s fl. 1s, ec. 5s	218 66	11	White round tower on hut; 23.	

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SARDEGNA (SARDINIA) (I.)							
8358 <i>E 1103.24</i>	Buggerru.	39° 24.2' N 8° 23.9' E	Fl.R. period 3s fl. 1s, ec. 2s			4 Red support; 23.	Fl.G. 3s 4M marks W. mole.
CANALE DI SAN PIETRO:							
8360 <i>E 1103</i>	-Isola Piana, N. extremity.	39° 11.7' N 8° 19.2' E	Fl.(2)W.R. period 8s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	59 18		7 White round tower; 26.	R. 209°-231°, W.-209°, F.G. 3M marks head of breakwater about 625 meters SE. Radar reflector.
8362 <i>E 1103.2</i>	-Secca Grande.	39° 12.8' N 8° 20.3' E	Q.W.			3 N. CARDINAL BY, articulated beacon, topmark.	
8363 <i>E 1099.2</i>	-Portoscuso.	39° 12.0' N 8° 22.8' E	2 F.R. (vert.)			4 Post.	Private light.
8364 <i>E 1099</i>	-Scolgio la Ghinghetta.	39° 12.0' N 8° 22.2' E	Fl.(2)W.R. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	39 12	W. 11 R. 8	Truncated tower, black and red bands.	W. 116°-153°, R.-165°, W.- 100°, R.-116°.
8370 <i>E 1100</i>	---No. 1.	39° 11.5' N 8° 22.4' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	16 5		4 STARBOARD (A) G, articulated beacon, topmark; 20.	Radar reflector.
8371 <i>E 1100.04</i>	---No. 2.	39° 11.6' N 8° 22.4' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	16 5		4 PORT (A) R, articulated beacon, topmark; 20.	Channel marked by lighted beacons. Radar reflector.
8374 <i>E 1100.5</i>	--Extension of Molo di Ponente.	39° 11.5' N 8° 23.1' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	20 6		3 PORT (A) R, beacon, topmark; 20.	
8376 <i>E 1100.8</i>	---Elbow.	39° 11.7' N 8° 23.4' E	F.R.	26 8		3 Red post; 20.	Visible 195°-063°. Safety distance 30m.
8380 <i>E 1101</i>	--Nuovo Diga di Levante.	39° 11.6' N 8° 23.5' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	37 11		7 Green column on hut; 23.	Safety distance 20m.
-Carloforte:							
8388 <i>E 1093</i>	--Entrance Range, front, Duono.	39° 08.7' N 8° 18.4' E	F.R.	75 23		3 White bell tower; 72.	
8392 <i>E 1093.1</i>	--Rear, about 380 meters 273°27' from front.	39° 08.8' N 8° 18.1' E	F.R.	131 40		3 Black and white checkered beacon tower; 16.	
8396 <i>E 1096</i>	--Molo della Sanita, head.	39° 08.7' N 8° 19.1' E	Fl.G. period 3s fl. 1s, ec. 2s	26 8		6 Green column; 20.	
8400 <i>E 1095</i>	-Molo Central, at head.	39° 08.7' N 8° 18.6' E	2 F.G. (vert.)	30 9 26 8		3 Green post on hut; 20.	
8412 <i>E 1094</i>	--Leading beacon Range, front.	39° 08.4' N 8° 18.6' E	F.R.	36 11		6 Building, black and white bands; 26.	
8414 <i>E 1094.1</i>	---Rear, 1650 meters 241°55' from front.	39° 08.0' N 8° 17.6' E	Fl.R. period 3s fl. 1s, ec. 2s	246 75		9 White beacon; 13.	Visible 221°-251°.
8416 <i>E 1092</i>	--Molo San Vittorio (Molo S.), head.	39° 08.5' N 8° 19.0' E	Fl.R. period 3s fl. 1s, ec. 2s	24 7		8 Red column; 16.	
8418 <i>E 1093.5</i>	-Secca dei Marmi Beacon.	39° 09.0' N 8° 20.0' E	Fl.Y. period 3s	20 6		4 SPECIAL Y, articulated beacon, topmark.	Radar reflector.
8419 <i>E 1093.6</i>	-Approach beacon.	39° 08.6' N 8° 20.0' E	L.Fl.W. period 10s fl. 2s, ec. 8s	20 6		6 SAFE WATER RW, articulated beacon, topmark.	Radar reflector.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SARDEGNA (SARDINIA) (I.)							
8419.5 <i>E 1096.5</i>	-Fishing harbor, S. pier, head.	39° 08.8' N 8° 18.7' E	2 F.R. (vert.)	23 7 16 5	2	Red mast; 13.	Private light.
8419.75 <i>E 1096.6</i>	--N. pier, head.	39° 08.9' N 8° 18.7' E	2 F.G. (vert.)	23 7 16 5	2	Green mast; 13.	Private light.
8420 <i>E 1098</i>	-Calasetta, Isola di Sant' Antioco, N. side, outer mole, head.	39° 06.8' N 8° 22.4' E	2 F.G. (vert.)	20 6 16 5	3	Green mast; 16.	F.R. on silo. Private light.
8424 <i>E 1098.4</i>	--Inner mole, head.	39° 06.8' N 8° 22.5' E	2 F.R. (vert.)	19 6 16 5	3	Red mast; 16.	Private light.
8428 <i>E 1086</i>	Scoglio Mangiabarche.	39° 04.6' N 8° 20.7' E	Fl.W. period 6s fl. 1s, ec. 5s	40 12	11	White truncated conical tower; 33.	
8432 <i>E 1090</i>	Capo Sandalo.	39° 08.8' N 8° 13.5' E	Fl.(4)W. period 20s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 12.3s	438 134	24	White round tower on two story stone dwelling; 98.	Aeromarine light. Visible 322°-191° and in Canale di Pietro 311°- 322°. Reserve light range 18M.
GOLFO DI PALMAS:							
8436 <i>E 1074</i>	-Isolotta Il Toro.	38° 51.6' N 8° 24.6' E	Fl.(2)W.R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	387 118	W. 11 R. 8	Round tower on white hut; 26.	W. 205°-199°, R.-205°.
8440 <i>E 1080</i>	-Saint Antioco Ponti.	39° 03.5' N 8° 28.4' E	Fl.W. period 5s fl. 1s, ec. 4s	75 23	15	White tower on two-story dwelling; 72.	Reserve light range 11M.
8444 <i>E 1084</i>	--Banchina del Carbone, SE. head.	39° 03.3' N 8° 28.3' E	2 F.G.R. (vert.)	26 8 23 7	3	Green and red post; 23.	Fl.G. and Fl.R. articulated lights mark entrance channel.
PORTO DI TEULADA							
8445 <i>E 1073</i>	-Outer mole, head.	38° 55.6' N 8° 43.3' E	Fl.R. period 4s fl. 1s, ec. 3s	26 8	6	Red post; 7.	Private light.
8446 <i>E 1073.1</i>	-Inner mole, head.	38° 55.6' N 8° 43.2' E	Fl.G. period 4s fl. 1s, ec. 3s	26 8	6	Green post; 16.	Private light.
8448 <i>E 1072</i>	Capo Spartivento.	38° 52.6' N 8° 50.7' E	Fl.(3)W. period 15s fl. 0.2s, ec. 3.5s fl. 0.2s, ec. 3.5s fl. 0.2s, ec. 7.4s	265 81	22	Red tower on two-story dwelling; 62.	Visible 240°-085°, and 093°- 094°. Reserve light range 18M.
8449 <i>E 1071.2</i>	-Cala Verde, right mole, head.	38° 59.1' N 9° 00.2' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	26 8	3	Green post; 16.	Tourist port. Private light.
8449.1 <i>E 1071</i>	--Left mole, head.	38° 58.7' N 8° 59.9' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	26 8	3	Red post; 16.	Tourist port. Private light.
8452 <i>E 1070</i>	Capo di Pula.	38° 59.1' N 9° 00.9' E	Fl.(4)W. period 15s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 8s	157 48	11	Round tower on hut; 52.	

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SARDEGNA (SARDINIA) (I.)							
GOLFO DI CAGLIARI:							
-Sarroch:							
8456 <i>E 1067</i>	--Oil Terminal Platform.	39° 05.2' N 9° 03.1' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	89 27	6	Red platform on column.	Approach channel marked by articulated beacons. Private light.
8464 <i>E 1066.7</i>	--Pontile SARAS, Chimica, No. 2 head. Approach Range, front.	39° 05.9' N 9° 01.7' E	2 Iso.R. (vert.) period 2s	36 11	3	Pole, white and red striped triangular board, point up; 16.	2 F.G. (vert.) light is shown at head of inner spur. Private light.
8468 <i>E 1066.71</i>	--Pontile SARAS, No. 2, rear, about 1240 meters 291° from front.	39° 06.1' N 9° 00.9' E	2 Oc.R. (vert.) period 4s lt. 3s, ec. 1s	92 28 89 27	3	Pole, white and red striped triangular board, point down; 33.	Visible 287°-295°. Private light.
8476 <i>E 1066.24</i>	-Pontile Rumianca Sud, head.	39° 09.3' N 9° 02.9' E	2 F.R.G. (vert.)	29 9 26 8	3	Red and green banded pole; 10.	Private light.
8480 <i>E 1066.26</i>	--Pontile Rumianca Sud, 240 meters 306° from head.	39° 09.4' N 9° 02.7' E	Q.W.	29 9	3	White mast; 10.	Private light.
8484 <i>E 1066.28</i>	--Pontile Rumianca Sud, 960 meters 306° from head.	39° 09.6' N 9° 02.4' E	Iso.R.G. period 2s	29 9	3	Green and red banded pole; 10.	G. 126°-306°, R.-126°. Private light.
8488 <i>E 1066</i>	-About 160 meters 000° from Pontile Rumianca Sud Root.	39° 09.9' N 9° 02.2' E	Oc.G. period 6s lt. 5s, ec. 1s	70 21	4	Green pole; 49.	Visible 126°-306°. Private light.
8492 <i>E 1066.2</i>	-About 206 meters 247° from Pontile Rumianca Sud Root.	39° 09.8' N 9° 02.0' E	Oc.R. period 4s lt. 3s, ec. 1s	70 21	4	Red mast; 49.	Visible 306°-126°. Private light.
-Cagliari:							
8500 <i>E 1056.2</i>	--W. breakwater, head.	39° 12.1' N 9° 06.6' E	Fl.R. period 3s fl. 1s, ec. 2s	43 13	9	White truncated conical tower, red band; 36.	Visible 120°-060°.
8501 <i>E 1056</i>	---Elbow.	39° 12.2' N 9° 06.6' E	FR.	23 7	4	Red post.	Visible 110°-330°.
8502 <i>E 1057</i>	--E. breakwater, head.	39° 11.7' N 9° 06.5' E	Fl.G. period 3s fl. 1s, ec. 2s	43 13	9	White truncated conical tower, green band; 36.	
---RACON							
			C(- • - •) period 30s			6	
8503 <i>E 1057.4</i>	--Approach.	39° 11.0' N 9° 06.6' E	Fl.(2+1)G. period 5s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2s	20 6	3	PREFERRED CHANNEL (A) GRG, beacon, topmark.	Fl.(2+1)G. 7s 6m 3M and Fl.(2+1)R. 7s 6m 3M beacons close S.
8503.2 <i>E 1065.62</i>	--Molo Settentrionale, head.	39° 11.7' N 9° 05.8' E	Fl.(2)G. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s			5	Green column. Private light.
8503.25 <i>E 1065.61</i>	--Molo Meridionale, head.	39° 11.5' N 9° 05.6' E	Fl.(2)R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s			5	Red column. Private light.
8503.4 <i>E 1065.625</i>	--Entrance, NE. side.	39° 11.7' N 9° 05.7' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	16 5	4	STARBOARD (A) G, mast, topmark.	Obscured 183°-268°. Private light.
8503.45 <i>E 1065.615</i>	---SW. side.	39° 11.6' N 9° 05.6' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	16 5	4	PORT (A) R, mast, topmark.	Obscured 006°-101°. Private light.

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SARDEGNA (SARDINIA) (I.)							
8503.6 <i>E 1065.64</i>	--Dock approach, NE. side.	39° 12.2' N 9° 05.2' E	Fl.(2)G. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	16 5	4	STARBOARD (A) G, mast, topmark.	Private light.
8503.65 <i>E 1065.63</i>	---SW. side.	39° 12.1' N 9° 05.1' E	Fl.(2)R. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	16 5	4	PORT (A) R, mast, topmark.	Private light.
8503.8 <i>E 1065.68</i>	--Dock entrance, SE. side.	39° 12.5' N 9° 04.8' E	2 F.G. (vert.)		3	Green post.	Private light.
8503.85 <i>E 1065.67</i>	---NW. side.	39° 12.5' N 9° 04.7' E	2 F.R. (vert.)		3	Red post.	Private light.
8503.9 <i>E 1065.66</i>	--Basin.	39° 13.3' N 9° 03.6' E	Fl.W. period 3s fl. 1s, ec. 2s		6	White post.	Private light.
8508 <i>E 1064</i>	--Molo della Capitaneria, NW. corner.	39° 12.0' N 9° 07.0' E	2 F.G. (vert.)	23 7 20 6	3	Green mast; 16.	
8512 <i>E 1063</i>	--Pontile della Dogana, SE. corner.	39° 12.6' N 9° 06.8' E	Fl.R. period 4s fl. 1s, ec. 3s	23 7	3	Red mast; 16.	
8516 <i>E 1059.2</i>	--Molo Su Siccu, NW. arm.	39° 12.2' N 9° 07.3' E	Fl.G. period 3s	19 6	3	Green pole; 16.	
8520 <i>E 1059</i>	---SE. arm.	39° 12.2' N 9° 07.4' E	F.R.	19 6	3	Red mast; 16.	
8524 <i>E 1058</i>	--Pontile Sant Elmo, head.	39° 12.1' N 9° 07.5' E	Fl.Y. period 5s fl. 1s, ec. 4s	20 6	4	SPECIAL Y, beacon, topmark.	
8528 <i>E 1065</i>	--Elmas AVIATION LIGHT.	39° 14.6' N 9° 04.0' E	Al.FI.W.G.				Occasional.
8532 <i>E 1054</i>	-Capo Sant' Elia.	39° 11.0' N 9° 08.9' E	Fl.(2)W. period 10s fl. 0.2s, ec. 3.1s fl. 0.2s, ec. 6.5s	230 70	21	White round tower, black bands, attached to two-story dwelling; 69.	Reserve light range 18M.
8536 <i>E 1053</i>	Marina Piccola del Poetto, breakwater, head.	39° 11.6' N 9° 09.8' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	19 6	1	Red mast; 13.	Private light.
8540 <i>E 1053.2</i>	-Entrance, E. side, pier, head.	39° 11.6' N 9° 09.9' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	19 6	1	Green mast; 16.	Private light.
8541 <i>E 1052.7</i>	-NE.	39° 12.5' N 9° 10.6' E	Fl.Y. period 5s fl. 1s, ec. 4s	16 5	3	SPECIAL Y, beacon, topmark.	Private light.
8544 <i>E 1042.1</i>	Baia dei Carbonara.	39° 07.9' N 9° 29.9' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	46 14	6	White tower on hut; 16.	Visible 009°-058°.
8548 <i>E 1043</i>	Capo Carbonara.	39° 06.2' N 9° 30.8' E	Fl.W. period 7.5s fl. 0.3s, ec. 7.2s	394 120	23	White round tower; 16.	Visible 217°-109°. Reserve light range 18M.
8550 <i>E 1049</i>	Seccadi San Caterina beacon.	39° 05.0' N 9° 29.7' E	Q.(9)W. period 15s	16 5	5	W. CARDINAL YBY, articulated beacon, topmark.	Radar reflector.
8552 <i>E 1048</i>	Isola dei Cavoli.	39° 05.3' N 9° 32.1' E	Fl.(2)W.R. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	242 74	W. 11 R. 8	White tower, black bands, attached to two-story building; 121.	W. 162°-073°, R.-093°, W.- 128°.
8556 <i>E 1044</i>	Secca dei Berni, near Porto Giunco.	39° 06.8' N 9° 33.2' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	30 9	4	ISOLATED DANGER BRB, tower, topmark; 26.	

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SARDEGNA (SARDINIA) (I.)							
8560 <i>E 1042</i>	Capo Ferrato.	39° 17.9' N 9° 38.0' E	Fl.(3)W. period 10s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	167 51	11	White tower on white dwelling; 36.	
8564 <i>E 1032</i>	Capo Bellavista.	39° 55.8' N 9° 42.8' E	Fl.(2)W. period 10s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 7.3s	541 165	26	White building, black bands; 62.	
			F.R.	476 145	6	Same building, post with red lantern.	Visible 164°-177°30'.
8568 <i>E 1034</i>	Arbatax, Mole di Levante, head.	39° 56.0' N 9° 42.0' E	F.R.	45 14	6	White truncated conical tower, red band on upper part; 20.	Visible 053°-330°.
8569 <i>E 1033</i>	-Mole, head.	39° 56.6' N 9° 42.2' E	Fl.R. period 5s fl. 1s, ec. 4s	30 9	9	White tower, red band; 26.	
8572 <i>E 1036</i>	-Molo di Ponente.	39° 56.4' N 9° 42.2' E	Fl.R.G. period 3s fl. 1s, ec. 2s	42 13	8	Green column on stone tower; 33.	R. 107°-147°, G.-107°.
8576 <i>E 1037</i>	--Arbatax tower.	39° 56.2' N 9° 42.4' E	2 F.G. (vert.)	72 22 69 21	3	Tower.	
8580 <i>E 1031</i>	Cala Gonone, outer mole.	40° 17.0' N 9° 38.0' E	F.G.	23 7	3	Green post.	
8584 <i>E 1031.2</i>	-Inner mole.	40° 16.8' N 9° 38.4' E	F.R.	23 7	3	Red post.	
8588 <i>E 1030</i>	Capo Comino.	40° 32.0' N 9° 50.0' E	Fl.W. period 5s fl. 1s, ec. 4s	85 26	15	White quadrangular masonry tower; 66.	Obscured W. of 010°. Reserve light range 8M.
8592 <i>E 1029</i>	La Caletta, outer mole.	40° 36.0' N 9° 45.0' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	36 11	1	Post on truncated pyramidal base, white and black bands; 27.	Private light.
8596 <i>E 1029.2</i>	-Inner mole.	40° 36.6' N 9° 45.3' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	42 13	4	Post on truncated pyramidal base, white and red bands; 23.	Private light.
8598	Isolotto d'Ottiolu.	40° 44.2' N 9° 43.4' E	Q.(3)W. period 10s	16 5	5	E. CARDINAL BYB, beacon, topmark.	
GOLFO DI OLBIA:							
8600 <i>E 1028</i>	-Isola Tavolara.	40° 55.2' N 9° 44.2' E	L.Fl.(2)W. period 10s fl. 2s, ec. 2s fl. 2s, ec. 4s	236 72	15	White octagonal masonry structure; 23.	Obscured W. of 341°. Reserve light range 12M.
8604 <i>E 1028.4</i>	--Porticciolo, outer mole.	40° 55.2' N 9° 43.6' E	F.R.	23 7	3	Red column; 13.	
8608 <i>E 1028.6</i>	---Inner mole.	40° 55.1' N 9° 43.6' E	F.G.	23 7	3	Green column; 13.	
8612 <i>E 1013.8</i>	-Capo Ceraso Beacon.	40° 55.5' N 9° 38.0' E	Q.W.	21 6	5	N. CARDINAL BY, articulated beacon, topmark.	Radar reflector.
8616 <i>E 1014</i>	--Isola della Bacon.	40° 55.2' N 9° 34.1' E	L.Fl.W. period 5s fl. 2s, ec. 3s	80 24	15	White tower on two-story dwelling; 72.	Visible 180°-264°. Reserve light range 11M. Nautophone: Mo.(B) ev. 30s.
	--RACON		O(---) period 30s		6		
8624 <i>E 1019</i>	--Isola di Mezzo, on S. extremity.	40° 55.2' N 9° 30.7' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	23 7	4	Green column on pedestal; 16.	

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SARDEGNA (SARDINIA) (I.)							
8632 <i>E 1020</i>	--Pontile Benedetto Brin, S. corner, head.	40° 55.3' N 9° 30.6' E	F.G.	20 6	3	Green post; 16.	
8640 <i>E 1025</i>	--Su Arrasolu Pier, E. corner of T-head.	40° 55.7' N 9° 30.9' E	F.R.	23 7	3	Red post on white hut; 16.	Private light.
8648 <i>E 1012.2</i>	-Golf of Aranci, head of mole, S. side.	40° 59.6' N 9° 37.3' E	Oc.Y. period 3s fl. 2s, ec. 1s	36 11	3	Yellow post; 26.	Oc.R. shown from head of commerical quay. F.R. 4M and F.G. 4M mark head of fishing harbor breakwaters.
8649 <i>E 1012.4</i>	--Head of mole, near launching cradle.	40° 59.5' N 9° 37.4' E	Oc.G. period 3s fl. 2s, ec. 1s	36 11	3	Green post on hut; 26.	
8656 <i>E 1013.5</i>	-Bais Caddinas Marina, outer mole, head.	40° 59.0' N 9° 36.0' E	Fl.G. period 2s fl. 0.5s, ec. 1.5s	16 5	2	Green post; 16.	Private light.
8660 <i>E 1013.6</i>	--Inner mole, head.	40° 59.7' N 9° 36.2' E	Fl.R. period 2s fl. 0.5s, ec. 1.5s	16 5	2	Red post; 16.	2 F.R.G. (vert) light 1M is shown from T-mole head. Private light.
8664 <i>E 1010</i>	-Isolotto Figarolo, Golfo di Olbia, entrance, N. side.	40° 58.7' N 9° 38.6' E	Fl.W. period 5s fl. 1s, ec. 4s	233 71	11	White hut, black bands; 19.	Visible 225°-076°.
8665 <i>E 1009.65</i>	Punta Cala Volpe.	41° 02.3' N 9° 33.7' E	Q.W.	16 5	4	N. CARDINAL BY, beacon, topmark.	Private light.
8666 <i>E 1009.8</i>	Punta Canigione.	41° 01.5' N 9° 35.7' E	Q.W.	16 5	5	N. CARDINAL BY, beacon, topmark.	Private light.
8668 <i>E 1009.7</i>	Golfo di Marinella, jetty, head.	41° 00.3' N 9° 33.7' E	Iso.R. period 6s	19 6	3	Red post; 13.	Private light.
8669 <i>E 1009.56</i>	Porto Rotondo, shelter mole.	41° 01.8' N 9° 32.6' E	Fl.W.R. period 5s fl. 1s, ec. 4s	23 7	W. R. 7 5	White post; 20.	R. 215°-240°, W.-215°. Private light.
8669.5 <i>E 1009.6</i>	-N. breakwater.	41° 01.7' N 9° 32.6' E	Fl.R. period 2s fl. 0.5s, ec. 1.5s	16 5	3	Red post; 10.	Private light.
8670 <i>E 1009.62</i>	-S. breakwater.	41° 01.6' N 9° 32.6' E	Fl.G. period 2s fl. 0.5s, ec. 1.5s	16 5	3	Green post; 10.	Private light.
8671 <i>E 1009.5</i>	-Portisco, Marina di Sa Petra, E. mole.	41° 02.3' N 9° 31.6' E	Fl.G. period 4s fl. 1s, ec. 3s	20 6	3	Truncated conical tower, green post; 16.	Fl.R. 4s 6m 4M marks W. mole. Private light.
8672 <i>E 1009</i>	Punta Ligata.	41° 03.9' N 9° 32.3' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	36 11	3	White truncated conical tower; 10.	Private light.
8676 <i>E 1009.2</i>	Cala di Volpe, N. cove, E. entrance point.	41° 04.9' N 9° 32.4' E	Fl.G. period 4s fl. 0.5s, ec. 3.5s	19 6	1	STARBOARD (A) G, post, topmark; 20.	Private light.
8680 <i>E 1009.4</i>	-W. entrance point.	41° 05.0' N 9° 32.1' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s	23 7	1	PORT (A) R, post, topmark; 20.	Private light.
8684 <i>E 1008.4</i>	Isole Poveri, S. islet.	41° 05.2' N 9° 34.8' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	20 6	4	ISOLATED DANGER BRB, post, topmark; 13.	Private light.
8686 <i>E 1008.5</i>	--NE. shoal.	41° 05.7' N 9° 35.5' E	Q.(3)W. period 10s	20 6	4	E. CARDINAL BYB, beacon, topmark.	Private light.
8688 <i>E 1008.7</i>	Isolotti Mortoriotto, NE. islet.	41° 05.2' N 9° 37.1' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	33 10	4	ISOLATED DANGER BRB, tower, topmark; 10.	Private light.

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SARDEGNA (SARDINIA) (I.)							
8692 E 1005.4	Porto Cervo, S. entrance point.	41° 08.2' N 9° 32.2' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s	23 7	6	Red truncated conical tower; 16.	Private light.
8696 E 1005	-N. entrance, point.	41° 08.2' N 9° 32.2' E	Fl.G. period 4s fl. 0.5s, ec. 3.5s	23 7	6	Green truncated conical tower; 16.	Private light.
8700 E 1006	-Head of bay, range, front.	41° 08.0' N 9° 31.3' E	Iso.R. period 2s	89 27	3	White post on white square tower, black stripe; 26.	Visible 247°24'-252°24'. Private light.
8704 E 1006.1	--Rear, 270 meters 252°22' from front.	41° 07.9' N 9° 31.2' E	Oc.R. period 4s lt. 3s, ec. 1s	154 47	3	White square tower, black stripe; 10.	Visible 247°24'-252°24'. Private light.
8708 E 1007	-Inner N. breakwater.	41° 08.1' N 9° 31.9' E	F.G.	23 7	3	Green post; 16.	Private light.
8712 E 1007.3	-Inner reef, S.	41° 08.0' N 9° 32.0' E	FR.	23 7	3	Red post; 16.	Private light.
8716 E 1008	Isole di li Nibani, on N. islet.	41° 08.9' N 9° 34.0' E	Q.W.	68 21	4	N CARDINAL BY, tower, topmark; 10.	Private light.
8720 E 1004	Secche del Cervo.	41° 08.6' N 9° 32.7' E	Q.(3)W. period 10s	20 6	4	E. CARDINAL BYB, beacon, topmark; 7.	Private light.
8724 E 1002	Capo Ferro.	41° 09.3' N 9° 31.4' E	Fl.(3)W. period 15s fl. 0.3s, ec. 2.7s fl. 0.3s, ec. 2.7s fl. 0.3s, ec. 8.7s	170 52	24	White round tower on two-story dwelling; 59.	Reserve light range 18M. Aeromarine light.
			Oc.R. period 5s lt. 4s, ec. 1s	137 42	8		Visible 189°-203° over Secca delle Bisce and dei Monaci.
8728 E 1003	-320 meters 053° from main light.	41° 09.4' N 9° 31.6' E	Fl.R. period 3s fl. 1s, ec. 2s	46 14	8	White truncated conical tower, red band; 33.	
8732 E 1000	Isola delle Bisce, S. side.	41° 09.7' N 9° 31.5' E	Fl.G. period 3s fl. 1s, ec. 2s	36 11	8	White tower, green band; 30.	Visible 255°-110°.
8736 E 0998	Isolotti Monaci.	41° 13.0' N 9° 31.1' E	Fl.W.R. period 5s fl. 1s, ec. 4s	79 24	W. 11 R. 8	White truncated conical tower; 52.	R. 246°-268°, W.-317°, R.-357°, W.-246°.
8736.5 E 0998.6	-Secca dei Monaci.	41° 13.3' N 9° 32.6' E	Q.W.	20 6	3	N. CARDINAL BY, beacon, topmark.	
8737 E 0995.4	Porticciolo di Poltu Quatu, E. breakwater.	41° 08.5' N 9° 29.7' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	23 7	4	Red post; 13.	Private light.
8738 E 0995.42	-W. breakwater.	41° 08.5' N 9° 29.7' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	23 7	4	Green post; 13.	Private light.
8740 E 0994	Secca di Tre Monti Beacon.	41° 09.4' N 9° 27.8' E	Fl.(2)W. period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6s	16 5	5	ISOLATED DANGER BRB, articulated beacon, topmark.	Radar reflector.
8742 E 0995	Porticciolo di Cannigione.	41° 07.0' N 9° 27.0' E	F.G.	23 7	3	Green post; 16.	Private light.
8744 E 0996	Isola Caprera, on Punta Rossa.	41° 10.1' N 9° 28.2' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	30 9	5	Post on green truncated pyramidal building; 13.	Visible 275°-110°.
8748 E 0992	Capo d'Orso, NE. extremity.	41° 10.6' N 9° 25.4' E	Fl.W. period 3s fl. 1s, ec. 2s	39 12	10	White truncated conical tower; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SARDEGNA (SARDINIA) (I.)							
LA MADDALENA:							
8752 <i>E 0991</i>	-Punta Villamarina, Isola S. Stefano.	41° 11.2' N 9° 24.6' E	FI.G. period 4s fl. 1s, ec. 3s	46 14	4	Green column on pedestal; 20.	
8753 <i>E 0993</i>	-Cala Capra, N. mole, head.	41° 10.1' N 9° 25.3' E	FI.G.	20 6	4	Green post on platform; 16.	Private light.
8756 <i>E 0966</i>	-Isola Chiesa, S. extremity, mole, head.	41° 12.6' N 9° 25.1' E	FI.R.	26 8	3	Red column on hut; 23.	
8760 <i>E 0960</i>	--La Maddalena Range, front.	41° 12.8' N 9° 25.1' E	FI.G.	56 17	3	White beacon tower, black band; 13.	
8761 <i>E 0960.1</i>	--Rear, 680 meters 066° from front.	41° 12.9' N 9° 25.3' E	FI.G.	121 37	3	Beacon tower, white wall, black band; 23.	
8764 <i>E 0968</i>	--Beacon, 174 meters SW. of mole at S. extremity of island.	41° 12.5' N 9° 25.0' E	FI.G.	19 6	3	Green beacon; 16.	
8766 <i>E 0955</i>	-Punta Tegge.	41° 12.6' N 9° 22.8' E	FI.R. period 4s fl. 0.5s, ec. 3.5s	13 4	3	Red truncated pyramidal beacon.	
8768 <i>E 0957</i>	-Guardia Vecchia Range, front.	41° 12.8' N 9° 23.9' E	Iso.G. period 2s	164 50	8	White hut, black median stripe; 3.	Visible 008°12'-019°48' between Secche del Paulau and Roma.
8772 <i>E 0957.1</i>	--Rear, about 869 meters 014° from front.	41° 13.3' N 9° 24.0' E	Oc.G. period 4s fl. 3s, ec. 1s	492 150	8	White hut, black median stripe; 3.	
8776 <i>E 0962.4</i>	-Via G. Amendola, E. extremity.	41° 12.7' N 9° 24.5' E	FI.R. period 3s fl. 0.5s, ec. 2.5s	23 7	3	Red post; 16.	
8780 <i>E 0962</i>	--W. extremity, E. side of Cala Gavetta entrance.	41° 12.7' N 9° 24.4' E	FI.G. period 3s fl. 1s, ec. 2s	23 7	3	Green column; 20.	
8784 <i>E 0961</i>	--Mole, new head.	41° 12.6' N 9° 24.3' E	FI.R. period 3s fl. 1s, ec. 2s	20 6	3	Red column; 16.	
8788 <i>E 0963</i>	-Cala Mangiavolpe, pier, head.	41° 12.8' N 9° 24.6' E	FI.Y. period 3s fl. 1s, ec. 2s	23 7	3	Yellow post; 16.	
8792 <i>E 0964</i>	-W. side of bay, breakwater, head.	41° 12.8' N 9° 24.7' E	FI.R. period 3s fl. 1s, ec. 2s	16 5	3	Red post; 7.	
8796 <i>E 0972</i>	-Hospital Wharf, head.	41° 12.8' N 9° 25.5' E	FI.R.	23 7	3	Red post; 20.	
8804 <i>E 0974</i>	-Cala Camiciotto, W. side of entrance, mole, head.	41° 12.8' N 9° 25.6' E	FI.R. period 3s fl. 0.5s, ec. 2.5s	23 7	3	Red post; 16.	
8816 <i>E 0997</i>	-Cala Stagnali Range, front.	41° 11.9' N 9° 27.1' E	FI.G.	30 9	3	Post on white pylon, black bands; 16.	
8820 <i>E 0997.1</i>	--Rear, about 87 meters 139° from front.	41° 11.9' N 9° 27.1' E	FI.G.	46 14	3	White concrete post, black bands; 16.	
8824 <i>E 0952</i>	Secca di Mezzo Passo, Isola Maddalena, off SE. head.	41° 12.2' N 9° 22.8' E	FI.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	23 7	5	ISOLATED DANGER BRB, beacon, topmark; 23.	
8828 <i>E 0958</i>	Secca del Palau.	41° 11.7' N 9° 23.2' E	V.Q.(6)+L.FI.W. period 10s	26 8	5	S. CARDINAL YB, beacon, topmark; 29.	
8829 <i>E 0958.2</i>	-Shoal, E. limit.	41° 11.9' N 9° 23.4' E	FI.Y. period 5s fl. 0.5s, ec. 4.5s	20 6	4	SPECIAL Y, beacon, topmark.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SARDEGNA (SARDINIA) (I.)							
8832 <i>E 0988</i>	Punta Palau.	41° 11.2' N 9° 22.9' E	Fl.(2)G. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	49 15	4	White round truncated tower, green band; 33.	
8833 <i>E 0990</i>	-Palau, pier, head.	41° 10.9' N 9° 23.2' E	Fl.Y. period 3s fl. 1s, ec. 2s	20 6	3	SPECIAL Y, post, topmark; 16.	
8834 <i>E 0990.2</i>	-Beacon.	41° 11.0' N 9° 23.3' E	V.Q.(9)W. period 10s	16 5	5	W. CARDINAL YBY, beacon, topmark.	Radar reflector.
8835 <i>E 0990.6</i>	-Shelter mole.	41° 10.8' N 9° 23.2' E	F.G.	20 6	3	Green post; 16.	Private light.
8835.5 <i>E 0990.4</i>	Marina, breakwater, head.	41° 10.8' N 9° 23.2' E	F.R.	20 6	3	Red post; 16.	Private light.
8836 <i>E 0950</i>	Punta Coda Sardegna, island, N. coast.	41° 12.4' N 9° 21.8' E	Fl.W. period 5s fl. 1s, ec. 4s	125 38	11	White two-story dwelling; 49.	
8840 <i>E 0984</i>	Porto Massimo (Lungo), dike, head.	41° 15.0' N 9° 26.0' E	F.G.	16 5	3	Green post; 13.	Private light.

Section 7

West Coast of Italy and Sicily

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ITALY-WEST COAST AND ADJACENT ISLANDS							
8848 <i>E 0951</i>	Secca Corsara Beacon.	41° 13.4' N 9° 20.2' E	Q.(6)+L.FI.W. period 15s	20 6	5	S. CARDINAL YB, articulated beacon, topmark.	Radar reflector.
8852 <i>E 1392</i>	-Punta Paratella, island, N. point.	43° 26.2' N 9° 54.2' E	L.FI.W. period 10s fl. 2s, ec. 8s	346 105	9	White column on pedestal; 16.	Signal station, on summit.
8856 <i>E 1394</i>	-Cala Dello Scalo, mole, head.	43° 25.7' N 9° 54.6' E	FI.R. period 3s fl. 0.3s, ec. 2.7s	26 8	2	Red lamppost; 13.	
8860 <i>E 1396</i>	-Punta Cala Scirocco, island, SE. point.	43° 25.2' N 9° 54.1' E	FI.(2)W. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	147 45	9	White column on pedestal; 16.	
ISOLA CAPRAIA:							
8864 <i>E 1400</i>	-Punta del Ferraione.	43° 03.1' N 9° 50.7' E	L.FI.W. period 6s fl. 2s, ec. 4s	98 30	16	White tower and dwelling; 39.	Reserve light range 11M.
8872 <i>E 1401</i>	--NE. mole, elbow.	43° 03.0' N 9° 51.0' E	FI.G. period 3s fl. 0.5s, ec. 2.5s	20 6	4	Green framework structure on white hut; 13.	Visible 195°-074°.
8876 <i>E 1403</i>	--Inner mole, head.	43° 02.7' N 9° 50.3' E	FI.R. period 3s fl. 0.5s, ec. 2.5s	23 7	4	Red column; 23.	
ISOLA D'ELBA:							
8884 <i>E 1444</i>	-Punta Polveriaia.	42° 47.6' N 10° 06.7' E	L.FI.(3)W. period 15s fl. 2s, ec. 2s fl. 2s, ec. 2s fl. 2s, ec. 5s	170 52	16	White tower and building; 33.	Obscured S. of 036°. Reserve light range 11M.
8888 <i>E 1408</i>	-Marciana Marina, mole, head.	42° 48.5' N 10° 11.7' E	FI.G. period 4s fl. 1s, ec. 3s	36 11	8	Green post; 18.	
8890 <i>E 1409</i>	-Secca di Capo Bianco.	42° 49.5' N 10° 19.1' E	Q.W.	16 5	3	N. CARDINAL BY, articulated beacon, topmark.	
8892 <i>E 1410</i>	-Scoglietto, Portoferraio approach.	42° 49.7' N 10° 19.9' E	FI.(2)W. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	79 24	7	Round tower on square masonry house; 26.	
-Portoferraio:							
8896 <i>E 1412</i>	--Forte Stella.	42° 48.9' N 10° 20.1' E	FI.(3)W. period 14s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 7s	207 63	16	White truncated tower; 82.	Visible 104°-014°. Reserve light range 11M.
			FR.	197 60	7	Same tower.	Visible 100°-131°.
8900 <i>E 1415</i>	--Mole, head.	42° 48.7' N 10° 19.8' E	2 FR. (vert.)	23 7 16 5	3	Iron bracket on wall; 23.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ITALY-WEST COAST AND ADJACENT ISLANDS							
8904 E 1416.5	--Pontile G. Massima, head.	42° 48.7' N 10° 19.5' E	2 F.R.G. (vert.)	23 7 20 6	4	Red post, green band; 13.	A F.R. light is shown from each corner of the head.
8916 E 1414	--Tower Point, NW. angle.	42° 48.7' N 10° 19.9' E	2 F.G. (vert.)	43 13 36 11	3	Green post; 3.	
8920 E 1417	--N. mole, head.	42° 48.5' N 10° 19.1' E	F.G.	16 5	3	Green post; 10.	Private light.
8924 E 1417.2	--S. mole, head.	42° 48.4' N 10° 19.1' E	F.R.	16 5	3	Red post; 10.	Private light.
8928 E 1424	--Cavo, N. mole, head.	42° 51.6' N 10° 25.4' E	F.G.	23 7	3	Green tower; 19.	Private light.
8932 E 1423	--E. mole, head of pier extension.	42° 51.5' N 10° 25.4' E	2 F.R. (vert.)	36 11 33 10	3	Red mast; 29.	A F.R. 5M light is shown from head of spur of mole. Private light.
8934 E 1429	--Pontile Vigneria.	42° 49.2' N 10° 26.1' E	Iso.W. period 2s	33 10	5	White post; 13.	
8935 E 1428.2	--Inner mole, head.	42° 49.0' N 10° 25.8' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	26 8	3	Green post; 23.	
8936 E 1428	-Rio Marina, breakwater, head.	42° 49.0' N 10° 25.9' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	31 9	3	Red post; 23.	
	-Porto Azzurro (Longone):						
8940 E 1436	--Pier, head.	42° 45.8' N 10° 23.9' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	20 6	6	Green column; 15.	
8944 E 1434	--Punta S. Giovanni.	42° 45.7' N 10° 23.7' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	49 15	6	White square hut; 10.	Visible 230°-010°.
8948 E 1432	-- Capo Focardo.	42° 45.2' N 10° 24.6' E	Fl.(3)W. period 15s fl. 1.5s, ec. 2s fl. 1.5s, ec. 2s fl. 1.5s, ec. 6.5s	105 32	16	Red tower on old fort; 19.	Reserve light range 11M.
8952 E 1438	- Monto Poro.	42° 43.6' N 10° 14.3' E	Fl.W. period 5s fl. 1s, ec. 4s	525 160	16	White framework tower; 7.	Reserve light range 12M.
8956 E 1439	-Marina di Campo, pier, root.	42° 44.4' N 10° 14.3' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	111 34	10	Yellow building, white triangular daymark; 11.	
8960 E 1440	--Outer mole, head.	42° 44.5' N 10° 14.4' E	Fl.R. period 5s fl. 1s, ec. 4s	26 8	3	Red mast; 20.	Due to extremity of mole, a distance of not less than 60 meters should be maintained from the light.
8964 E 1441	--Pier, head.	42° 44.6' N 10° 14.3' E	F.R.	23 7	3	Red concrete post; 16.	Visible 180°-293°. Locally maintained.
8968 E 1448	Isola Pianosa.	42° 35.1' N 10° 05.7' E	Fl.(2)W. period 10s fl. 1.5s, ec. 2s fl. 1.5s, ec. 5s	138 42	16	White tower on white dwelling; 62.	Reserve light range 10M.
8972 E 1450	-Cala San Giovanni, mole, head.	42° 35.0' N 10° 06.0' E	2 F.R. (vert.)	23 7 16 5	3	Red mast; 16.	
8976 E 1454	Scoglio d'Africa.	42° 21.0' N 10° 04.0' E	Fl.W. period 5s fl. 1s, ec. 4s	62 19	12	Round masonry tower; 52.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ITALY-WEST COAST AND ADJACENT ISLANDS							
8980 <i>E 1384</i>	Secche di Vada, off Capo Cavallo.	43° 19.2' N 10° 21.9' E	Fl.(2)W. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	59 18	12	ISOLATED DANGER BRB, tower, topmark; 59.	
8984 <i>E 1388.4</i>	-Head of pier 0.8 km. WNW. of village.	43° 21.1' N 10° 26.6' E	F.G., F.R. (vert.)	23 7 16 5	G. 3 R. 3	Red mast, green bands.	
8988 <i>E 1390</i>	Porto Baratti.	42° 59.6' N 10° 29.8' E	Fl.W. period 3s fl. 1s, ec. 2s	246 75	9	White framework post; 13.	
8992 <i>E 1446</i>	Isola Palmaiola.	42° 51.9' N 10° 28.6' E	Fl.W. period 5s fl. 1s, ec. 4s	344 105	10	White building; 46.	Reserve light range 11M. AIS (MMSI No 992471027)
8996 <i>E 1455</i>	-Rocchetta.	42° 55.2' N 10° 31.5' E	Fl.(3)W. period 15s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 8s	59 18	11	Square tower; 16.	
PORTOVECCHIO DI PIOMBINO:							
9000 <i>E 1456</i>	-Molo Batteria (Mole Foraneo).	42° 55.8' N 10° 33.2' E	Fl.R. period 5s fl. 1s, ec. 4s	33 10	8	Red iron post; 16.	
9004 <i>E 1458</i>	-Molo Magona d'Italia, at center of head.	42° 55.9' N 10° 32.8' E	F.G.R. (vert.)	23 7 16 5	3	Green mast, red bands; 26.	
9008 <i>E 1457</i>	-Pontile Italsider, head.	42° 56.0' N 10° 33.0' E	4 F.G. (horiz.)	23 7	3	Green posts; 10.	Private light.
9012 <i>E 1459</i>	-Darsena Italsider.	42° 56.1' N 10° 32.7' E	2 F.R. (vert.)	36 11 31 9	3	Skeleton wooden tower, stone base; 28.	Private light.
9014 <i>E 1456.3</i>	-Beacon No. 3.	42° 54.0' N 10° 32.3' E	Fl.Y. period 3s fl. 0.5s, ec. 2.5s	16 5	4	SPECIAL Y, articulated beacon, topmark.	Beacon No. 2 2.9 miles NE. and No. 1 3.9 miles NE. show same characteristics. Radar reflector.
9016 <i>E 1460</i>	Torre del Sale, floating pier, root.	42° 57.0' N 10° 36.0' E	Oc.W. period 3s lt. 2s, ec. 1s	29 9	5	White pole; 26.	Entrance is marked by Oc.G. and Oc.R. lights. Two small towers, each with Fl.Y. lights, mark the sea- shore installation.
9020 <i>E 1461</i>	Follonica, pier head, N. corner.	42° 54.0' N 10° 46.0' E	F.R.G.R. (vert.)	49 15 46 14 40 12	3	Concrete post, red and black bands; 31.	A similar light is shown from S. corner of the head, and a F.G. light from middle of pier. Private light.
9024 <i>E 1462</i>	Portiglione Range, front.	42° 53.0' N 10° 47.0' E	F.R.	75 23	1	Gray framework structure.	Visible 043°-153°. Private light.
9028 <i>E 1462.1</i>	-Rear, about 28 meters 138° from front.	42° 52.8' N 10° 46.6' E	F.R.	75 23	1	Gray framework structure.	Visible 043°-153°. A F.G. light visible 2M, is shown from head of overhead cableway. Private light.
9032 <i>E 1466</i>	Punta Ala, outer mole, elbow.	42° 48.0' N 10° 44.0' E	Fl.W. period 2s fl. 0.5s, ec. 1.5s	39 12	7	White polygon tower; 24.	Obscured inside the port.
9036 <i>E 1466.2</i>	-Entrance.	42° 48.5' N 10° 44.2' E	Fl.R. period 2s fl. 0.5s, ec. 1.5s	39 12	5		Private light.

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ITALY-WEST COAST AND ADJACENT ISLANDS							
9040 E 1466.4	-Mole, head.	42° 48.2' N 10° 44.0' E	Fl.G. period 2s fl. 0.5s, ec. 1.5s	39 12	5	White polygon tower, green bands; 22.	Private light.
9044 E 1468	Castiglione della Pescaia, S. mole, head.	42° 46.0' N 10° 53.0' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	26 8	4	White tower, black bands; 19.	
9048 E 1470	-N. mole, head.	42° 45.6' N 10° 52.2' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	26 8	4	Red and white striped conical tower; 19.	
9052 E 1472	Marina di Grosseto.	42° 43.0' N 10° 59.0' E	2 F.G. (vert.)	23 7 18 5	3	Green post; 16.	
9056 E 1474	Formiche di Grosseto, (Maggiore), N. rock.	42° 34.6' N 10° 52.9' E	Fl.W. period 6s fl. 1s, ec. 5s	77 23	11	White round masonry tower on building; 39.	
9060 E 1476	Talamone.	42° 33.1' N 11° 08.0' E	Fl.(2)W. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	98 30	15	White quadrangular tower; 59.	Reserve light range 11M.
9068 E 1477.5	-Outer mole, head.	42° 33.2' N 11° 08.2' E	Fl.(2)R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	33 10	7	Red pillar on pedestal; 18.	
9076 E 1480	Punta Lividonia.	42° 26.7' N 11° 06.3' E	Fl.W. period 5s fl. 1s, ec. 4s	154 47	16	White round tower on two-story dwelling; 39.	Visible 035°-228°. Reserve light range 11M.
9080 E 1483	-Sanita, mole, head.	42° 26.5' N 11° 07.0' E	2 F.G. (vert.)	23 7 18 5	3	Green post; 23.	Safety distance 30m.
PORTO SANTO STEFANO:							
9084 E 1482	-Porto del Valle, E. mole, head.	42° 26.2' N 11° 07.5' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	23 7	4	Red column on pedestal; 16.	
9088 E 1481	-Molo Giuseppe Garibaldi, SE. of port, head.	42° 26.3' N 11° 07.4' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	23 7	3	Green post.	<i>Temporarily extinguished during work in progress on mole extension.</i>
ISOLA DEL GIGLIO:							
9092 E 1486	-Punta Fenaio, N. point.	42° 23.2' N 10° 52.9' E	Fl.(3)W. period 15s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 8s	129 39	16	White octagonal tower, central red stripe, attached to a red building, white stripe.	Visible 026°-249°. Reserve light range 12M.
9096 E 1488	-Giglio Castello Marina, E. mole, head.	42° 21.5' N 10° 55.4' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	29 9	7	Red tower; 20.	Safety distance 20m.
9100 E 1490	--W. mole, head.	42° 21.5' N 10° 55.3' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	29 9	7	Green tower; 20.	Safety distance 10m.
9104 E 1492	-Punta del Capel Rosso.	42° 19.2' N 10° 55.3' E	Fl.(4)W. period 30s fl. 0.2s, ec. 3.6s fl. 0.2s, ec. 3.6s fl. 0.2s, ec. 3.6s fl. 0.2s, ec. 18.4s	295 90	23	White tower, red and white bands on building; 66.	Visible 232°-134°. Obscured by Isola di Giannutri over an arc of 008°. Reserve light range 18M.
9108 E 1496	Isola di Giannutri, Punta Rosso.	42° 14.3' N 11° 06.6' E	Fl.W. period 5s fl. 1s, ec. 4s	200 61	13	Red and white banded tower, on red dwelling with white median band.	Visible 195°-106°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ITALY-WEST COAST AND ADJACENT ISLANDS							
PORT ERCOLE:							
9112 <i>E 1500</i>	Fort La Rocca.	42° 23.4' N 11° 12.8' E	L.F.I.W.R. period 7s fl. 2s, ec. 5s	300 91	W. 16 R. 13	White round tower on parapet; 62.	R. 177°-285°, W.-010°. Reserve light range W.-11M, R.-8M.
9116 <i>E 1502</i>	-Punta Santa Barbara, mole, head.	42° 23.6' N 11° 12.7' E	Fl.R. period 3s fl. 1s, ec. 2s	30 9	8	Red column on pedestal; 16.	
9120 <i>E 1503</i>	-Punta Scoglione, N. side of entrance.	42° 23.7' N 11° 12.6' E	Fl.G. period 3s fl. 1s, ec. 2s	30 9	4	Green column on pedestal; 13.	Safety distance 35m.
9124 <i>E 1504</i>	-Cala Galera, protective mole, head.	42° 24.2' N 11° 12.7' E	Iso.W.R. period 2s	34 10	W. 10 R. 7	Red and white banded lamppost; 16.	R. 017°-197°, W.-017°. Private light.
9128 <i>E 1504.4</i>	--Lee mole, head.	42° 24.2' N 11° 12.7' E	Iso.G. period 2s	34 10	6	Green column on pedestal; 16.	Visible 085°-275°. Private light.
9132 <i>E 1508</i>	Monte Cappuccini.	42° 05.8' N 11° 49.1' E	Fl.(2)W. period 10s fl. 0.3s, ec. 3s fl. 0.3s, ec. 6.4s	410 125	24	Gray round tower on white dwelling; 98.	Obscured eastward of 344°. Reserve light range 18M. AIS (MMSI No 992471033).
9136 <i>E 1506</i>	Torre Valdaliga, W. pier, head.	42° 07.2' N 11° 45.9' E	Fl.Y. period 3s fl. 1s, ec. 2s	33 10	4	Yellow post; 23.	F.R. light on chimney about 800 meters NW. Private light.
9137 <i>E 1505.2</i>	-Torrino esterno.	42° 07.4' N 11° 45.1' E	Fl.(3)Y. period 10s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	33 10	5		Private light.
9137.5 <i>E 1505</i>	-Torrino intermedio.	42° 07.4' N 11° 45.4' E	Fl.Y. period 3s fl. 1s, ec. 2s	20 6	5		Private light.
9138 <i>E 1506.2</i>	-E. pier, head.	42° 07.2' N 11° 45.9' E	Fl.Y. period 2s fl. 0.5s, ec. 1.5s	33 10	4	Yellow post; 23.	Private light.
CIVITAVECCHIA:							
9140 <i>E 1510</i>	-Antemurale Colombo, head.	42° 06.4' N 11° 45.8' E	Fl.G. period 3s fl. 1s, ec. 2s	46 14	8	Green column on pedestal; 16.	Private light. <i>Temporarily extinguished.</i> A temporary Fl. G. 4s 6m 8M light marks end of breakwater extension.
9148 <i>E 1514</i>	-Banchina Campagna Rona, NW. of Molo Amerigo Vespucci, head.	42° 05.7' N 11° 46.9' E	Fl.R. period 4s fl. 1s, ec. 3s	30 9	8	Red column on pedestal; 16.	
9152 <i>E 1513</i>	-Banchina XIV Maggio, mole, head.	42° 05.8' N 11° 46.8' E	2 F.R. (vert.)	20 6 13 4	3	Red post.	
9153 <i>E 1518.2</i>	-Molo Cialdi.	42° 05.5' N 11° 47.2' E	2 F.R. (vert.)	26 8 23 7	3	Red post; 23.	
9154 <i>E 1518.5</i>	Riva di Traiano, outer mole, head.	42° 03.9' N 11° 48.6' E	Fl.G. period 5s fl. 1.5s, ec. 3.5s	33 10	6	Green post; 16.	Private. 2 F.R. (vert.) shown on inner mole.
9154.5 <i>E 1518.7</i>	-Beacon.	42° 04.0' N 11° 48.7' E	Fl.R. period 5s fl. 1.5s, ec. 3.5s	26 8	5	Red beacon.	Private.
9156 <i>E 1518</i>	-Molo Lazaretto, head.	42° 05.5' N 11° 47.2' E	2 F.R. (vert.)	26 8 21 6	3	Red post; 20.	2 F.G. (vert.) and 2 F.R. (vert.) shown, respectively, from piers northward.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ITALY-WEST COAST AND ADJACENT ISLANDS							
9160 <i>E 1519</i>	Santa Marinella, on the outer mole.	42° 02.0' N 11° 52.5' E	2 F.R. (vert.)	23 7 19 6	3	Red post; 13.	Private light.
9164 <i>E 1519.4</i>	-On the inner mole.	42° 02.0' N 11° 52.4' E	2 F.G. (vert.)	16 5 13 4	3	Green post; 13.	Private light.
FIUMICINO:							
9168 <i>E 1524</i>	-N. mole, head.	41° 46.3' N 12° 13.2' E	Fl.R. period 3s fl. 1s, ec. 2s	33 10	8	Red column on pedestal; 20.	Safety distance 40m.
9172 <i>E 1526.3</i>	-S. mole, 60 meters from head.	41° 46.2' N 12° 12.9' E	Fl.G. period 3s fl. 1s, ec. 2s	33 10	9	Green column on pedestal; 16.	
9176 <i>E 1526.2</i>	--150 meters from head.	41° 46.2' N 12° 12.9' E	F.G.	30 9	4	Green post; 16.	
9180 <i>E 1526</i>	--At root.	41° 46.1' N 12° 13.5' E	Fl.W. period 3s fl. 1s, ec. 2s	66 20	11	White post; 56.	Fl.G. 5s 5M and Fl.R. 5s 5M mark mouth of Tevere River 1.9 miles SSE.
9184 <i>E 7053</i>	-Offshore pipeline terminal platform, R2.	41° 44.6' N 12° 10.0' E	Fl.(2)W. period 4s fl. 0.5s, ec. 0.5s fl. 1s, ec. 2s	33 10	5	Post.	Floating hose with Fl.R. lights attached to platform. Private light.
9188 <i>E 7054</i>	--Platform R1.	41° 45.1' N 12° 09.2' E	Fl.W. period 2s fl. 0.5s, ec. 1.5s	33 10	5	Post.	Horn: Mo.(N) ev. 30s (bl. 4s, si. 2s, bl. 2s, si. 22s). Private light.
ANZIO:							
9192 <i>E 1538</i>	-Cape d'Anzio.	41° 26.7' N 12° 37.3' E	Fl.(2)W. period 10s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 7.3s	121 37	22	Tower on white building; 69.	Visible 255°-155°. Reserve light range 18M. AIS (MMSI No 992471034).
9196 <i>E 1540.5</i>	-Molo Frangiflutti, elbow.	41° 26.6' N 12° 38.3' E	Fl.R. period 3s fl. 1s, ec. 2s	33 10	5	Red post; 16.	
9200 <i>E 1541</i>	-Beacon.	41° 26.7' N 12° 38.1' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	18 5	4	STARBOARD (A) G, beacon, topmark; 20.	
9204 <i>E 1541.3</i>	Molo Sottoflutto, head.	41° 27.0' N 12° 40.0' E	Fl.R. period 5s fl. 1.5s, ec. 3.5s	36 11	7	Red post.	Private light.
9208 <i>E 1541.2</i>	-Molo Sopraflutto, head.	41° 27.1' N 12° 39.8' E	Fl.G. period 5s fl. 1.5s, ec. 3.5s	36 11	7	Green column on pedestal.	Private light.
9209 <i>E 1541.35</i>	-Avamporto, pier, head.	41° 27.2' N 12° 39.6' E	2 F.G. (vert.)	29 9 23 7	4	Green post.	2 meters apart. Visible 355°-295°. Private light.
9212 <i>E 1541.6</i>	Tori di Foce Verde, pier, head.	41° 24.5' N 12° 48.7' E	Fl.(2)Y. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	46 14	4	Yellow post; 30.	Private light.
9216 <i>E 1577</i>	Isola Zannone, on Capo Negro.	40° 58.2' N 13° 03.5' E	Fl.(3)W. period 10s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	121 37	12	White tower, one-story building; 43.	Visible 060°-280°.
9220 <i>E 1576</i>	Punta Varo.	40° 57.9' N 13° 03.0' E	L.Fl.W. period 8s fl. 2s, ec. 6s	134 41	8	White post; 16.	Visible 270°-044°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ITALY-WEST COAST AND ADJACENT ISLANDS							
ISOLE DI PONZIA:							
9224 <i>E 1588</i>	-Punta della Guardia.	40° 52.6' N 12° 57.2' E	Fl.(3)W. period 30s fl. 0.3s, ec. 5.7s fl. 0.3s, ec. 5.7s fl. 0.3s, ec. 17.7s	367 112	24	Tower on two-story red and white banded dwelling; 56.	Visible 225°-155°, except where obscured by Isola Palmarola (118°-136°). Reserve light range 18M. AIS (MMSI No 992471036).
			Fl.R. period 5s fl. 1s, ec. 4s	315 96	8	Hut at foot of same tower; 7.	Visible 235°-265°.
9228 <i>E 1580</i>	Rotonda della Madonna, Porto di Ponza, entrance, S. side.	40° 53.7' N 12° 58.3' E	Fl.(4)W. period 15s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 8s	200 61	15	White truncated conical tower, dwelling; 59.	Visible 206°-023°, 070°-080° to aid anchoring at Chiaia di Luna. Reserve light range 11M.
			F.R.	180 55	9		Visible 301°-341°.
9232 <i>E 1584</i>	-Porto di Ponza, mole, head.	40° 53.7' N 12° 58.4' E	Fl.Y. period 3s fl. 1s, ec. 2s	39 12	9	Red tower; 39.	
9236 <i>E 1583</i>	-Breakwater, head.	40° 53.8' N 12° 58.4' E	Fl.R. period 3s fl. 1s, ec. 2s	26 8	8	Red post; 23.	Safety distance 25m.
9240 <i>E 1582</i>	Scoglio Ravia.	40° 53.9' N 12° 57.9' E	Fl.G. period 3s fl. 1s, ec. 2s	85 26	6	Green square hut; 10.	
9244 <i>E 1542</i>	Capo Circeo.	41° 13.2' N 13° 04.2' E	Fl.W. period 5s fl. 0.2s, ec. 4.8s	125 38	23	White round tower, red two-story building; 59.	Visible 263°-107°. Reserve light range 18M. AIS (MMSI No 992471035).
TERRACINA:							
9248 <i>E 1550</i>	-Mole Gregoriano, head.	41° 16.9' N 13° 15.6' E	Fl.R. period 5s fl. 1s, ec. 4s	39 12	9	Red column on pedestal; 30.	Safety distance 50m.
9252 <i>E 1551</i>	-Outer mole, head.	41° 17.0' N 13° 15.6' E	Fl.G. period 5s fl. 1s, ec. 4s	26 8	7	Green post; 20.	Safety distance 25m.
9256 <i>E 1552</i>	-Canal entrance, S. side.	41° 17.0' N 13° 16.0' E	F.R.	26 8	3	Red post; 20.	
9260 <i>E 1554</i>	-Canal entrance, N. side.	41° 17.0' N 13° 16.0' E	F.G.	26 8	3	Green post; 20.	
GAETA:							
9264 <i>E 1558</i>	-Monte Orlando.	41° 12.3' N 13° 34.7' E	Fl.(3)W. period 15s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 8.8s	607 185	23	Round tower; 46.	Reserve light range 18M. AIS (MMSI No 992471038).
9268 <i>E 1560</i>	-Punta dello Stenardo, S. entrance of port.	41° 12.5' N 13° 35.5' E	Fl.(2)R. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	66 20	8	Red round tower; 20.	
9272 <i>E 1562</i>	-Punta S. Antonio, mole, head.	41° 12.9' N 13° 34.8' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	33 10	8	Red column on pedestal; 16.	2 F.R. (vert.) and 2 F.G. (vert.) shown inside Porto San Antonio.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ITALY-WEST COAST AND ADJACENT ISLANDS							
PORTO SALVO:							
9276 <i>E 1564</i>	-Mole, head.	41° 13.2' N 13° 34.4' E	FI.G. period 3s fl. 0.5s, ec. 2.5s	27 8	8	Green column on pedestal; 16.	
9280 <i>E 1565</i>	-Front range, about 307 meters 269° from head of mole.	41° 13.4' N 13° 34.4' E	Q.R.				Private light.
9284 <i>E 1565.1</i>	--Rear, 190 meters 269° from front.	41° 13.4' N 13° 34.2' E	FR.				Private light.
9288 <i>E 1566</i>	-Oil pier, head.	41° 13.3' N 13° 34.6' E	2 F.R. (vert.)	36 11 33 10	1	Post; 23.	Private light.
9294 <i>E 1568</i>	-Banchino Salvo d'Acquisto, mole, head.	41° 13.9' N 13° 34.4' E	FI.(2)G. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	33 10	8	Green column on base; 23.	Safety distance 30m.
9296 <i>E 1570</i>	Porticciolo di Capossele, entrance, W. side.	41° 14.9' N 13° 36.1' E	FR.	13 4	2	Red post; 7.	Private light.
9300 <i>E 1570.2</i>	-Entrance, E. side.	41° 15.0' N 13° 35.9' E	FG.	13 4	2	Green post; 7.	Private light.
9304 <i>E 1573</i>	Formia, breakwater, near outer head.	41° 15.0' N 13° 37.0' E	FI.W.R. period 3s fl. 1s, ec. 2s	36 11	W. 11 R. 8	Red column on base; 23.	Visible W. 252°-072°, R.- 252°. Safety distance 30m.
9308 <i>E 1572</i>	-E. breakwater, head.	41° 15.2' N 13° 36.9' E	FI.G. period 3s fl. 1s, ec. 2s	30 9	7	Green column on pedestal; 16.	Safety distance 30m.
9310 <i>E 1574</i>	Scauri, breakwater, head.	41° 15.1' N 13° 42.1' E	FI.G. period 5s fl. 1s, ec. 4s	16 5	4	Green post; 10.	Private light.
9312 <i>E 1575.5</i>	Coppola Pinetamare Marina.	40° 59.4' N 13° 58.4' E	FI.R. period 5s fl. 0.5s, ec. 4.5s		6	Red post.	Fl.Y. light marks harbor entrance. Fl.G. 5s 6M light marks south breakwater close SE. Fl.G. 5s 2M light marks inner breakwater. Private light.
ISOLA VENTOTENE:							
9320 <i>E 1592</i>	-Porto Nicolo.	40° 47.8' N 13° 26.0' E	FI.W. period 5s fl. 1s, ec. 4s	69 21	15	White round tower on dwelling; 52.	Visible 158°-022°, obscured 286°-305° over Isola Santo Stefano. Reserve light range 11M. AIS (MMSI No 992471037).
9324 <i>E 1594</i>	-Cala Rossano, outer breakwater, head.	40° 48.0' N 13° 26.1' E	FI.R. period 5s fl. 1s, ec. 4s	26 8	5	Red column on pedestal; 16.	Private light.
9326 <i>E 1595</i>	--Inner breakwater, 15 meters from head.	40° 48.0' N 13° 26.1' E	FI.G. period 5s fl. 1s, ec. 4s	20 6	4	Green post; 16.	Private light.
ISOLA D'ISCHIA:							
9328 <i>E 1598</i>	-Punta Imperatore.	40° 42.7' N 13° 51.2' E	FI.(2)W. period 15s fl. 0.2s, ec. 3.6s fl. 0.2s, ec. 11s	538 164	22	White tower attached to two- story dwelling; 43.	Visible 316°-190°. Reserve light range 18M. AIS (MMSI No 992471040).
9332 <i>E 1600</i>	-Folio, W. mole, head.	40° 44.5' N 13° 51.5' E	FI.R.G. period 3s fl. 0.5s, ec. 2.5s	20 6	5	Green column on pedestal.	G. 110°-005°, R.-110°. Safety distance 30m. Private light.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ITALY-WEST COAST AND ADJACENT ISLANDS							
9333 <i>E 1600.5</i>	--E. mole, head.	40° 44.4' N 13° 51.6' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	20 6	2	Red post; 13.	Safety distance 50m. Private light.
9340 <i>E 1606</i>	-Casamiccola, 20 meters from head of outer mole.	40° 45.0' N 13° 54.3' E	Fl.G. period 4s	23 7	5	Green post.	Private light.
9341 <i>E 1606.2</i>	--Inner mole.	40° 45.1' N 13° 54.6' E	F.R.	23 7	2	Red post.	Safety distance 20m. Private light.
-Ischia Porto:							
9344 <i>E 1608</i>	-- Bagno , mole, head.	40° 44.9' N 13° 56.6' E	Fl.W.R. period 3s fl. 1s, ec. 2s	43 13	W. 15 R. 12	Red round tower; 36.	R. 127°-197°, W.-127°. Reserve light range W. 11M, R. 9M. Horn: Mo.(P) ev. 28s.
9348 <i>E 1610</i>	--Harbor, W. side of entrance.	40° 44.8' N 13° 56.5' E	Fl.G. period 3s fl. 1s, ec. 2s	14 4	8	Green tower; 10.	
9352 <i>E 1612</i>	---E. side of entrance.	40° 44.7' N 13° 56.6' E	Fl.R. period 3s fl. 1s, ec. 2s	14 4	8	Red tower; 10.	Visible 196°-217°.
9356 <i>E 1614</i>	- Castello d' Ischia .	40° 43.9' N 13° 58.1' E	L.Fl.W. period 6s fl. 2s, ec. 4s	269 82	16	Terrace on castle; 10.	Visible 119°-001°. Reserve light range 12M. AIS (MMSI No 992471039).
ISOLA DI PROCIDA:							
9360 <i>E 1614.3</i>	-Secche Formiche di Vivara.	40° 44.6' N 13° 58.7' E	Q.(9)W. period 15s	16 5	5	W. CARDINAL YBY, articulated beacon, topmark; 20.	Radar reflector.
9362 <i>E 1615</i>	-Porticciolo della Chiaiolella, outer mole.	40° 44.8' N 14° 00.5' E	2 F.G. (vert.)	30 9 23 7	4	Green post; 23.	Private light.
9363 <i>E 1615.2</i>	-Molo Ponente, head.	40° 44.8' N 14° 00.4' E	2 F.R. (vert.)	30 9 23 7	4	Red post; 23.	Safety distance 20M. Private light.
9364 <i>E 1618</i>	-Punta Pioppeto.	40° 46.2' N 14° 01.0' E	Fl.(3)W. period 10s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	69 21	11	White pylon on hut; 10.	Visible 076°-287°.
9368 <i>E 1616</i>	-Procida, mole, head.	40° 46.2' N 14° 01.8' E	Fl.G. period 3s fl. 1s, ec. 2s	33 10	8	Green column on base; 23.	Safety distance 30m.
9372 <i>E 1617</i>	-E. breakwater, head.	40° 46.0' N 14° 01.8' E	Fl.R. period 3s fl. 1s, ec. 2s	33 10	8	Red column on base; 23.	
9376 <i>E 1619</i>	-Secca del Torrione, S. extremity of shoal.	40° 46.5' N 14° 02.6' E	Q.(6)+L.Fl.W. period 15s	16 5	5	S. CARDINAL YB, articulated beacon, topmark; 16.	Radar reflector.
GOLFO DI POZZUOLI:							
9380 <i>E 1620</i>	- Capo Miseno .	40° 46.6' N 14° 05.4' E	Fl.(2)W. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	262 80	16	White tower, on two-story building; 39.	Visible 199°-112°. Reserve light range 12M. AIS (MMSI No 992471041).
9384 <i>E 1622</i>	-Baia, Fortino Tenaglia.	40° 48.7' N 14° 04.9' E	Iso.R. period 4s	43 13	8	Red tower; 26.	
9388 <i>E 1623</i>	-Arco Felice, Pontile Pirelli, W. corner.	40° 49.6' N 14° 06.3' E	F.Y.	26 8	4	Yellow post; 20.	F.Y. 4M light marks E. corner. Private light.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ITALY-WEST COAST AND ADJACENT ISLANDS							
9400 <i>E 1628.4</i>	-Isola de Nisida, Molo Dandolo, spur.	40° 47.9' N 14° 09.9' E	Fl.G. period 3s fl. 1s, ec. 2s	46 14	7	Green post; 16.	
9404 <i>E 1626</i>	--Pontile Ilva Nord, outer corner.	40° 48.4' N 14° 09.7' E	F.R.	26 8	3		A F.R. light is shown from the opposite corner. Private light.
-Bagnoli:							
9408 <i>E 1626.2</i>	--Mole.	40° 48.4' N 14° 10.1' E	F.G.	20 6	3		A F.G. is shown from the opposite corner. Private light.
9412 <i>E 1626.4</i>	--Pontile Ilva Sud, outer corner.	40° 48.2' N 14° 10.1' E	F.R.	13 4	3		A F.R. light is shown from the opposite corner. Private light.
9416 <i>E 1626.6</i>	--Pontile Montecantini, N. corner.	40° 48.3' N 14° 10.4' E	F.R.	10 3	3	Red post.	A F.G. light is shown from the S. corner. Private light.
9417 <i>E 1628.5</i>	-La Gaiola.	40° 47.7' N 14° 11.0' E	Q.Y.	33 10	4	SPECIAL Y, post, topmark; 16.	Private light.
9418 <i>E 1628.6</i>	-Scoglio Traverso.	40° 47.5' N 14° 11.3' E	Fl.(2)Y. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 8s	33 10	4	SPECIAL Y, post, topmark; 16.	Private light.
9420 <i>E 1628.7</i>	-Secca della Cavallara, shoal, S. extremity.	40° 47.0' N 14° 11.3' E	Q.(6)+L.Fl.W. period 15s	18 5	5	S. CARDINAL YB, articulated beacon, topmark; 16.	Radar reflector.
NAPOLI:							
9424 <i>E 1629</i>	-Porticciolo Sannazzaro, W. side of entrance, mole, head.	40° 49.6' N 14° 13.6' E	Fl.R. period 5s fl. 1s, ec. 4s	29 9	8	Red column on pedestal; 16.	Safety distance 20m.
9428 <i>E 1629.4</i>	--E. breakwater, head.	40° 49.6' N 14° 13.4' E	Fl.G. period 5s fl. 1s, ec. 4s	26 8	7	Green column on pedestal; 16.	
9432 <i>E 1631</i>	-Porticciolo di Santa Lucia (Santa Lucia Harbor), N. side of entrance, angle of quay.	40° 49.7' N 14° 15.1' E	Fl.G. period 3s fl. 1s, ec. 2s	23 7	4	Green column on base; 16.	
9436 <i>E 1632</i>	--S. side of entrance, head of detached breakwater.	40° 49.7' N 14° 15.2' E	Fl.R. period 3s fl. 1s, ec. 2s	30 9	5	Red column on base; 16.	
9440 <i>E 1636</i>	-Porticciolo del Molosiglio, S. side of entrance, mole, head.	40° 49.9' N 14° 15.4' E	Fl.R. period 5s fl. 1s, ec. 4s	33 10	8	Red column on base; 20.	
9444 <i>E 1634</i>	--N. mole, head.	40° 50.0' N 14° 15.4' E	Fl.G. period 5s fl. 1s, ec. 4s	30 9	3	Green column on pedestal; 20.	
9452 <i>E 1652</i>	-Diga Foranea Emanuele Filiberto Duca D'Aosta, E. head.	40° 49.5' N 14° 17.9' E	Fl.R. period 4s fl. 1s, ec. 3s	39 12	5	Red column on pedestal; 16.	Channel marked by 2 Fl.G. and 2 Fl.R. articulated lights. Safety distance 20m.
9456 <i>E 1653</i>	--Bend, near E. head.	40° 49.9' N 14° 17.4' E	Fl.(2)R. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	23 7	4	Red column on pedestal; 16.	Visible 122°-308°.
9460 <i>E 1654</i>	--(Angle), W. head.	40° 50.2' N 14° 16.8' E	Fl.R.G. period 4s fl. 1s, ec. 3s	23 7	5	Red and green column on pedestal; 16.	G. 032°-175°, R.-298°.
9464 <i>E 1648</i>	-Antemurale Thacon de Revel, S. head.	40° 49.9' N 14° 16.7' E	Fl.G. period 4s fl. 1s, ec. 3s	59 18	9	Green round tower; 39.	

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ITALY-WEST COAST AND ADJACENT ISLANDS							
9465 E 1647.5	-Breakwater extension, head.	40° 49.8' N 14° 16.6' E	Fl.R. period 3s fl. 1s, ec. 2s	49 15	4	Red tower; 33.	
	-RACON		N (- •) period 30s		10		
9475 E 1646	-Molo San Vincenzo , head.	40° 50.0' N 14° 16.3' E	Fl.(3)W. period 15s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 9.8s	82 25	22	Red round tower; 79.	Obscured inside the port 102°-233°. AIS (MMSI No 992471042).
9476 E 1650	--Spur, entrance, W. side.	40° 49.9' N 14° 16.3' E	2 F.R. (vert.)	26 8 20 6	3	Stone structure.	
9480 E 1658	-Molo Martello, head.	40° 50.4' N 14° 16.0' E	Fl.G. period 4s fl. 0.5s, ec. 3.5s	23 7	2	Green post; 16.	
9484 E 1662	-Drydock No. 3, S. corner.	40° 50.2' N 14° 16.3' E	2 F.R. (vert.)	30 9 26 8	3	Post; 26.	Safety distance 100m. F.R. on centre of caisson at S. entrance.
9488 E 1664	Darsena Armando Diaz, spur, head.	40° 50.3' N 14° 16.6' E	F.G.	23 7	2	Green post; 16.	
9492 E 1663	-Calata della Marinella Pier, head.	40° 50.5' N 14° 16.5' E	2 F.R.G. (vert.)		3		Private.
9500 E 1667	-Pontile Vigliena, SE. corner.	40° 50.1' N 14° 17.5' E	F.G.	20 6	2	Green post; 13.	
9508 E 1669	-Darseng Progresso, SE. corner.	40° 49.8' N 14° 17.8' E	Fl.G. period 3s fl. 1s, ec. 2s	33 10	8	Green column on pedestal; 16.	
9516 E 1678	Portici, head of the quay, inner side of breakwater.	40° 48.6' N 14° 20.1' E	Fl.W. period 3s fl. 1s, ec. 2s	52 16	11	White tower; 46.	
9520 E 1679	-NW. spur of breakwater, mole, head.	40° 48.6' N 14° 19.9' E	Fl.G. period 3s fl. 1s, ec. 2s		3	Green post on base; 20.	
9524 E 1680	Torre del Greco, at foot of Mt. Vesuvius, mole, head.	40° 47.0' N 14° 21.8' E	Fl.R. period 5s fl. 1s, ec. 4s	39 12	9	Red column on pedestal; 16.	
9528 E 1681	-Inner mole, head.	40° 47.1' N 14° 21.7' E	Fl.G. period 5s fl. 1s, ec. 4s	26 8	3	Green post; 20.	
9532 E 1685	Torre Annunziata, Molo di Levante, marks shoal.	40° 44.9' N 14° 26.9' E	Fl.(2)G. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	13 4	5	STARBOARD (A) G, articulated beacon, topmark.	Radar reflector.
9536 E 1684	-W. mole, head.	40° 44.7' N 14° 27.0' E	Fl.(2)R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	43 13	4	Red column on pedestal; 20.	Safety distance 50m.
9538 E 1687	-Fishing harbor, mole, head.	40° 45.2' N 14° 26.8' E	F.R.	16 5	4	Red post; 13.	Safety distance 15m.
9539 E 1683.5	-Marina di Aprea, W. breakwater, head.	40° 44.5' N 14° 27.5' E	F.R.	23 7	2	Red post.	Private light.
9539.1 E 1683	--E. breakwater, head.	40° 44.5' N 14° 27.6' E	F.G.	23 7	2	Green post.	Private light.

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ITALY-WEST COAST AND ADJACENT ISLANDS							
CASTELLAMMARE DI STABIA:							
9539.5 <i>E 1688</i>	-Marina di Stabia.	40° 43.0' N 14° 27.0' E	Fl.(2)Y. period 4s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 2.5s	10 3	4	SPECIAL Y, beacon, topmark.	Marks end of submarine pipeline. Private light.
9540 <i>E 1692</i>	-Main, 1 km. 187° from head of mole.	40° 41.3' N 14° 28.3' E	Fl.(2)W. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	374 114	16	White tower on white 3-story building; 52.	Visible 095°-223°. Reserve light range 12M. AIS (MMSI No 992471043).
9544 <i>E 1693</i>	-W. mole, head.	40° 41.8' N 14° 28.4' E	Fl.G. period 5s fl. 1s, ec. 4s	39 12	8	Green column on pedestal; 16.	Safety distance 50m.
9548 <i>E 1694</i>	-Molo di Sottoflutto, head.	40° 41.8' N 14° 28.5' E	Fl.R. period 5s fl. 1s, ec. 4s	26 8	3	Red post; 20.	
9550 <i>E 1692.5</i>	-Pozzano.	40° 41.4' N 14° 27.1' E	2 F.R.G. (vert.)	23 7 16 5	3	Green post, red bands.	Private light.
9552 <i>E 1695</i>	Marine di Equa, 30 meters from breakwater, head.	40° 40.0' N 14° 25.0' E	2 F.G. (vert.)	26 8 20 6	4	Green post; 20.	2 F.R. (vert.) marks opposite breakwater head. Private light.
9554 <i>E 1695.6</i>	Marina di Meta, mole, head.	40° 38.9' N 14° 24.3' E	Fl.G. period 3s fl. 1s, ec. 2s	26 8	5	Green post; 20.	Private light.
9556 <i>E 1696</i>	Marina di Cassano, mole, head.	40° 38.4' N 14° 23.9' E	F.G.	23 7	3	Green post; 20.	Safety distance 20m.
9560 <i>E 1698</i>	Sorrento, breakwater, head.	40° 37.8' N 14° 22.6' E	Fl.G. period 3s fl. 1s, ec. 2s	31 9	5	Green column on pedestal; 16.	Private light.
9564 <i>E 1700</i>	Scoglio Vervecce.	40° 37.1' N 14° 19.6' E	Fl.(2)W. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	49 15	7	ISOLATED DANGER BRB, topmark.	
9568 <i>E 1702</i>	Punta Campanella.	40° 34.1' N 14° 19.6' E	Fl.W. period 5s fl. 1s, ec. 4s	213 65	10	Tower, white and black bands; 59.	Visible 270°-166°, obscured by Isola di Capri 066°- 089°.
ISOLA DI CAPRI:							
9572 <i>E 1706</i>	-Punta Carena.	40° 32.2' N 14° 11.9' E	Fl.W. period 3s fl. 0.2s, ec. 2.8s	240 73	25	White tower on two-story dwelling; 92.	Visible 265°-175°. Reserve light range 18M. AIS (MMSI No 992471044).
9576 <i>E 1708</i>	-Il Capo, island, NE. point.	40° 33.9' N 14° 15.9' E	Fl.(2)W. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	39 12	7	White column on pedestal; 16.	Visible 110°-335°.
9580 <i>E 1710</i>	-Marina Grande, breakwater, head.	40° 33.5' N 14° 14.7' E	Fl.G. period 3s fl. 1s, ec. 2s	36 11	8	Green column on pedestal; 16.	
9584 <i>E 1711</i>	--Molo di Sopraflutto, head.	40° 33.4' N 14° 14.9' E	Fl.R. period 3s fl. 1s, ec. 2s	30 9	8	Red column on pedestal; 16.	Safety distance 50m.
9588 <i>E 1716</i>	Isolotti Li Galli, N. extremity.	40° 34.9' N 14° 26.2' E	Fl.W. period 5s fl. 1s, ec. 4s	220 67	6	White square tower; 39.	

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ITALY-WEST COAST AND ADJACENT ISLANDS							
AMALFI:							
9592 <i>E 1718</i>	-W. mole, head.	40° 37.8' N 14° 36.2' E	Fl.R. period 5s fl. 1s, ec. 4s	43 13	8	Red column on pedestal; 16.	
9596 <i>E 1720</i>	-Stone jetty, harbor, N. side.	40° 37.9' N 14° 36.2' E	2 F.G. (vert.)	26 8 23 7	3	Green post; 20.	
9600 <i>E 1722</i>	Capo d'Orso.	40° 38.0' N 14° 40.9' E	Fl.(3)W. period 15s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 8s	217 66	16	White terrace, red band on two-story dwelling; 16.	Visible 263°-093°. Reserve light range 12M. AIS (MMSI No 992471045).
SALERNO:							
9604 <i>E 1730</i>	-Outer elbow.	40° 40.3' N 14° 45.3' E	Fl.W. period 3s fl. 1s, ec. 2s	43 13	11	White column on pedestal; 16.	
9612 <i>E 1730.2</i>	-Molo di Levante, head.	40° 39.8' N 14° 44.7' E	Fl.G. period 5s fl. 1s, ec. 4s	42 13	9	Green column on hut; 30.	Safety distance 50m.
RACON							
9616 <i>E 1730.4</i>	-Molo di Ponente, head.	40° 40.0' N 14° 44.8' E	Fl.R. period 5s fl. 1s, ec. 4s	43 13	8	Red column on hut; 30.	Safety distance 25m.
9620 <i>E 1733</i>	-Old port, Banchina Manfredi, S. corner.	40° 40.4' N 14° 45.1' E	2 F.G. (vert.)	26 8 20 6	3	Green post; 16.	
9624 <i>E 1733.5</i>	-Secca Manfredi.	40° 40.4' N 14° 45.4' E	Fl.G. period 6s fl. 1s, ec. 5s	16 5	2	Green post; 13.	Private light.
9626 <i>E 1734</i>	-Port Masuccio Salernitano, outer mole, head.	40° 40.2' N 14° 46.0' E	2 F.G. (vert.)	20 6 16 5	3	Green post; 13.	Private light.
9627 <i>E 1734.3</i>	--Inner mole, head.	40° 40.3' N 14° 46.1' E	2 F.R. (vert.)	20 6 16 5	3	Red post; 13.	Safety distance 30m. Private light.
9628 <i>E 1737</i>	San Marco di Castellabate, W. mole.	40° 16.0' N 14° 56.1' E	Fl.G. period 4s fl. 1s, ec. 3s	23 7	2	Green post on base; 20.	Private light.
9632 <i>E 1735</i>	Agropoli.	40° 21.2' N 14° 59.3' E	Fl.(2)W. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	138 42	16	Tower on hut; 33.	Reserve light range 12M. AIS (MMSI No 992471046).
9636 <i>E 1738</i>	Isolotto Licosa, near Punta Licosa.	40° 15.0' N 14° 54.1' E	Fl.(2)W. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	43 13	11	White round tower; 30.	
9640 <i>E 1739</i>	Acciaroli, outer mole, head.	40° 10.5' N 15° 01.7' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	26 8	4	Red post; 20.	Private light.
9644 <i>E 1739.2</i>	-Inner mole, head.	40° 10.5' N 15° 01.6' E	2 F.G. (vert.)	16 5 13 4	3	Green post.	Private light.
9648 <i>E 1739.4</i>	-500 meters E. of outer mole, head.	40° 10.5' N 15° 01.7' E	Iso.R.G. period 2s		4	Red post.	R. shore-062°, G.-083°. Private light.

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ITALY-WEST COAST AND ADJACENT ISLANDS							
9650 <i>E 1739.7</i>	Casalvelino Marina, outer mole, head.	40° 10.5' N 15° 06.5' E	Fl.G. period 3s	26 8	5	Green post.	Private light.
9650.1 <i>E 1739.8</i>	-Inner Mole, outer arm.	40° 10.5' N 15° 06.5' E	Fl.R. period 3s	26 8	5	Red post.	Private light.
9652 <i>E 1740</i>	Capo Palinuro.	40° 01.4' N 15° 16.6' E	Fl.(3)W. period 15s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 8.8s	675 206	25	White octagonal tower on two-story dwelling; 46.	Visible 286°-132°. Reserve light range 18M. AIS (MMSI No 992471047).
9656 <i>E 1741</i>	Camerota marina.	40° 00.0' N 15° 23.0' E	Fl.R. period 4s fl. 1s, ec. 3s	26 8	3	Red post; 16.	Private light.
9660 <i>E 1742</i>	Scario.	40° 02.9' N 15° 29.7' E	Fl.(4)W. period 12s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	79 24	15	White octagonal tower, two-story dwelling; 39.	Obscured when bearing more than 025°. Reserve light range 12M. AIS (MMSI No 992471048).
9661 <i>E 1743</i>	-Outer mole, head.	40° 03.0' N 15° 30.0' E	Fl.R. period 3s fl. 1s, ec. 2s	23 7	4	Red post; 16.	Safety distance 15m. Private light.
9662 <i>E 1743.2</i>	-Inner mole, head.	40° 02.9' N 15° 29.5' E	F.G.	16 5	3	Green post.	Safety distance 40m. Private light.
9664 <i>E 1746</i>	Sapri (Pisacane), on Punta del Fortino.	40° 04.0' N 15° 37.0' E	Fl.(2)W. period 7s fl. 0.5s, ec. 1s fl. 0.5s, ec. 5s	43 13	7	Red tower; 13.	Visible 223°-083°.
9668 <i>E 1747</i>	Maratea, outer mole, head.	39° 59.0' N 15° 43.0' E	Fl.R. period 3s fl. 1s, ec. 2s	26 8	6	Red post; 10.	Safety distance 30m. Private light.
9672 <i>E 1747.3</i>	-Lee mole, head.	39° 59.2' N 15° 42.6' E	F.G.	24 7	4	Green post; 13.	Private light.
9674 <i>E 1747.2</i>	-S. breakwater, head.	39° 59.2' N 15° 42.6' E	Fl.G. period 3s fl. 1s, ec. 2s	26 8	6	Green post; 16.	Safety distance 30m. Private light.
9676 <i>E 1750</i>	Capo Bonifati.	39° 32.5' N 15° 53.3' E	Fl.(2)W. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	207 63	15	White tower on hut; 23.	Reserve light range 11M.
9680 <i>E 1752</i>	Paola.	39° 21.5' N 16° 02.0' E	Fl.(3)W. period 15s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 8s	175 53	15	Tower; 56.	Visible 315°-160°. Reserve light range 11M.
GOLFO DI SANT EUFEMIA:							
9684 <i>E 1756</i>	-Capo Suvero.	38° 57.1' N 16° 09.5' E	Fl.(2)W. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	190 58	16	White tower on building; 82.	Visible 280°-155°. Reserve light range 12M.
9688 <i>E 1756.5</i>	-Turina, pier, head.	38° 51.1' N 16° 13.6' E	2 F.R.G. (vert.)	36 11 33 10	4	Post, red and green bands.	Private light.
9692 <i>E 1757</i>	-Vibo Valentia Marina, N. mole, head.	38° 43.4' N 16° 07.8' E	Fl.W.G. period 5s fl. 1s, ec. 4s	56 17	W. 15 G. 12	Green tower; 49.	W. 068°-230°, G.-068°. Reserve light range W. 10M, G. 8M.
9696 <i>E 1758</i>	--S. mole, head.	38° 43.2' N 16° 07.8' E	Fl.R. period 5s fl. 1s, ec. 4s	23 7	7	Red column on pedestal; 16.	

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ITALY-WEST COAST AND ADJACENT ISLANDS							
9700 E 1760	-Tropea, mole, head.	38° 40.7' N 15° 54.1' E	2 F.G. (vert.)	46 14 43 13	4	Green post; 39.	Private light.
STRETTO DI MESSINA:							
9704 E 1762	-Capo Vaticano.	38° 37.1' N 15° 49.7' 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	354 108	24	White round tower on one-story building; 26.	Obscured in the Golfo di Santa Eufemia when bearing E. of 205°. Reserve light range 18M.
9704.5 E 1763	Gioia Tauro, N. breakwater.	38° 26.7' N 15° 53.5' E	Fl.R. period 4s fl. 1s, ec. 3s	46 14	8	Red tower; 33.	Private light.
RACON							
G(- - •)							
9704.6 E 1763.35	-Port entry.	38° 26.5' N 15° 54.3' E	Dir.W.R.G.	72 22	6	White tower.	Fl.G. 098°-099°, F.G.-100°15', Al.W.G.-102°30', F.W.-103°30', Al.W.R.-105°45', F.R.-107°, Fl.R.-108°, obsc.-098°. Private light.
9704.7 E 1763.2	-S. breakwater.	38° 26.6' N 15° 53.4' E	Fl.G. period 4s fl. 1s, ec. 3s	46 14	8	Green tower; 33.	Private light.
9705 E 1764	-Condoleo di Scilla Range, front.	38° 15.0' N 15° 45.0' E	Fl.(2)Y. period 4s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2s		2	SPECIAL Y, topmark, letter G.	Marks SW. limit of prohibited area. Private light.
9705.1 E 1764.1	--Rear, 20 meters 113° from front.	38° 15.2' N 15° 44.6' E	Fl.(2)Y. period 4s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2s		2	SPECIAL Y, topmark, letter G.	Private light.
9706 E 1764.3	-Farazzina Range, front.	38° 15.6' N 15° 45.7' E	Fl.(2)Y. period 4s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2s		2	SPECIAL Y, topmark, letter G.	Marks NE. limit of prohibited area. Private light.
9706.7 E 1764.31	--Rear, 166° from front.	38° 15.6' N 15° 45.7' E	Fl.(2)Y. period 4s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2s		2	SPECIAL Y, topmark, letter G.	Private light.
9708 E 1766	-Scilla.	38° 15.3' N 15° 42.9' E	Fl.W. period 5s fl. 0.3s, ec. 4.7s	236 72	22	Round tower; 20.	Reserve light range 18M.
9716 E 1769	-AVIATION LIGHT, cable tower, ESE. of Torre Cavallo.	38° 14.7' N 15° 41.1' E	F.R. (vert.)	1188 362		Pylon on tower; 656.	5 clusters of F.R. (vert.) lights arranged vertically along tower. Private light.
9720 E 1770	-Punta Pezzo.	38° 13.8' N 15° 38.2' E	Fl.(3)R. period 15s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 9.8s	85 26	15	White round tower, red bands; 75.	Visible 010°-246°. Reserve light range 13M. AIS (MMSI No 992471054).
9724 E 1772	-Villa San Giovanni, mole, head.	38° 13.0' N 15° 37.9' E	Fl.G. period 3s fl. 1s, ec. 2s	45 14	8	Green tower on pedestal; 33.	
9728 E 1773	--Molo Sottoflutto, head.	38° 13.1' N 15° 38.1' E	Fl.R. period 3s fl. 1s, ec. 2s	23 7	7	Red column; 13.	
9732 E 1773.6	--Ferryboat, mole, head.	38° 13.3' N 15° 38.0' E	3 F.G. (vert.)	39 12	4	Green post.	Private light.
9736 E 1776	-Reggio di Calabria, breakwater, head.	38° 07.6' N 15° 39.0' E	Iso.G. period 2s	46 14	8	Green column on pedestal; 33.	

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ITALY-WEST COAST AND ADJACENT ISLANDS							
9740 E 1777	-Molo di Sottoflutto, head.	38° 07.5' N 15° 39.2' E	Iso.R. period 2s	36 11	8	Red column.	
9744 E 1780	-Capo dell'Armi.	37° 57.3' N 15° 40.7' E	Fl.(2)W. period 10s fl. 0.3s, ec. 1.9s fl. 0.3s, ec. 7.5s	312 95	22	White tower on building; 39.	Visible 295°-148°. Reserve light range 18M. AIS (MMSI No 992471086).
9748 E 1780.5	Saline de Montebello.	37° 56.0' N 15° 43.0' E	Fl.G. period 4s fl. 1s, ec. 3s	23 7	4	Green post; 16.	Private light.
9752 E 1780.6	-Inner mole, head.	37° 56.0' N 15° 43.0' E	Fl.R. period 4s fl. 1s, ec. 3s	23 7	4	Red post; 16.	Private light.
9756 E 1780.7	-Pier, head.	37° 56.0' N 15° 43.0' E	2 F.R.G. (vert.)		1	Green post; 16.	Private light.
9760 E 1780.8	-Sea water intake platform.	37° 56.0' N 15° 43.0' E	Fl.Y. period 3s fl. 0.5s, ec. 2.5s	23 7	3	Tower on platform; 20.	Private light.
9764 E 1781	-Saline Joniche, pier No. 2.	37° 56.0' N 15° 44.0' E	2 F.R. (vert.)	36 11	3	Red post; 16.	Private light.
SICILIA (SICILY) AND ADJACENT ISLANDS (I.)							
PORTO DE MESSINA:							
9766 E 1813	-Marina del Nettuno.	38° 12.0' N 15° 33.6' E	Fl.R. period 3s fl. 1s, ec. 2s	10 3	3	Red post.	Private light.
9768 E 1814	-Punta San Raineri.	38° 11.6' N 15° 34.5' E	Fl.(3)W. period 15s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 8.8s	136 41	22	White square tower, black bands; 138.	Reserve light range 17M. AIS (MMSI No 992471056).
9772 E 1816	-Punta Secca, peninsula, NE. corner.	38° 11.7' N 15° 34.4' E	Oc.Y. period 3s lt. 2s, ec. 1s	43 13	10	Yellow tower; 39.	Visible 097°-335°.
9776 E 1817	-Punta San Salvatore, entrance.	38° 11.8' N 15° 33.7' E	Fl.(2)R. period 5s fl. 1s, ec. 1s fl. 1s, ec. 2s	52 16	8	Red column; 39.	Visible 340°-250°. The Statue of the Madonna della Lettera, 53m high, located close E., is illuminated.
9780 E 1818	-Port Office.	38° 11.8' N 15° 33.5' E	Fl.(2)G. period 5s fl. 1s, ec. 1s fl. 1s, ec. 2s	52 16	8	Green tower; 39.	F.G. and F.R. lights are shown from the heads of the westernmost and easternmost jetties of the ferry slips, respectively. Jetty heads between the above are marked by vertically disposed R. and G. lights.
9784 E 1806	Capo Peloro.	38° 16.1' N 15° 39.0' E	Fl.(2)G. period 10s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 7.3s	121 37	19	White octagonal tower, black bands, white dwelling; 121.	Visible 112°30'-069°. Reserve light range 13M. AIS (MMSI No 992471055).
			Iso.R. period 2s	72 22	9		Visible shore-127° over Rascolmo Bank.
	RACON		M(- -) period 30s		10		
9785 E 1810	-Mortelle Range, front.	38° 16.3' N 15° 36.9' E	Fl.(2)Y. period 4s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2s		2	SPECIAL Y, topmark, letter G.	Marks E. limit of prohibited area. Private light.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SICILIA (SICILY) AND ADJACENT ISLANDS (I.)							
9785.1 <i>E 1810.1</i>	--Rear, 30 meters 256° from front.	38° 16.3' N 15° 36.9' E	Fl.(2)Y. period 4s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2s			2 SPECIAL Y, topmark.	Private light.
9786 <i>E 1810.2</i>	-Casabianca Range, front.	38° 16.7' N 15° 35.5' E	Fl.(2)Y. period 4s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2s			2 SPECIAL Y, topmark, letter G.	Marks W. limit of prohibited area. Private light.
9786.1 <i>E 1810.21</i>	--Rear, 30 meters 232° from front.	38° 16.7' N 15° 35.5' E	Fl.(2)Y. period 4s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2s			2 SPECIAL Y, topmark.	Private light.
9788 <i>E 1809</i>	-AVIATION LIGHT, cable tower, S. of Capo Peloro.	38° 15.9' N 15° 39.1' E	2 F.G. (vert.)	764 233		Pylon on tower; 656.	5 clusters of F.R. (vert.) lights arranged vertically along tower. Private light.
9792 <i>E 2046</i>	Capo Rasocolmo.	38° 17.7' N 15° 31.2' E	Fl.(3)W. period 10s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	279 85	15	White dwelling; 43.	Obscured 255°-shore. Reserve light range 9M.
9796 <i>E 2042</i>	Capo di Milazzo.	38° 16.1' N 15° 13.9' E	L.Fl.W. period 6s fl. 2s, ec. 4s	295 90	16	White tower; 33.	Reserve light range 12M.
9800 <i>E 2044</i>	Milazzo, N. mole, head.	38° 13.0' N 15° 14.8' E	L.F.I.G. period 5s fl. 2s, ec. 3s	40 12	8	Green column on pedestal; 20.	
9804 <i>E 2045.4</i>	-Harbor platform.	38° 12.5' N 15° 16.9' E	Fl.Y. period 3s fl. 0.5s, ec. 2.5s	30 9	3	SPECIAL Y, post, topmark.	Private light.
9808 <i>E 2044.2</i>	-S. mole, head.	38° 12.8' N 15° 14.8' E	L.F.I.R. period 5s fl. 2s, ec. 3s	39 12	8	Red column on pedestal; 16.	Safety distance 30m.
9812 <i>E 2044.4</i>	-Pontile Etoile, head.	38° 13.0' N 15° 14.5' E	2 F.R.G. (vert.)	23 7 20 6	3	Green post, red bands; 13.	2 F.R. (vert.) shown on pier 80 meters SSE.
9816 <i>E 2045</i>	-Oil Pier No. 1, head.	38° 12.8' N 15° 15.8' E	2 F.G. (vert.)	54 16 45 14	5	Green dolphin.	2 F.G.R. (vert.) 5M shown from Pier No. 2, close E. Private.
9820 <i>E 2045.3</i>	-Pier, head.	38° 12.6' N 15° 16.6' E	2 F.R. (vert.)	39 12 33 10	5	Red post on dolphin.	Private.
ISOLE EOLIE:							
9824 <i>E 1786</i>	-Isola Vulcano, Punta dei Porci, S. head.	38° 22.0' N 14° 59.5' E	Fl.(4)W. period 20s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 10s	115 35	16	White tower on two-story building; 102.	Visible 251°-093°. Reserve light range 12M.
9825 <i>E 1786.3</i>	--Punta Nere.	38° 24.7' N 14° 58.1' E	Fl.Y. period 3s fl. 0.5s, ec. 2.5s	30 9	3	Tower on base; 13.	Visible 176°-285°. Private light.
9826 <i>E 1786.5</i>	--Port Levanto, pier, head.	38° 25.0' N 14° 58.0' E	2 F.G. (vert.)	23 7	3	Green post; 16.	Private light.
-Isola Lipari:							
9828 <i>E 1788</i>	--Lipari Anchorage, head of Pignatoro Mole.	38° 29.5' N 14° 57.9' E	F.I.G. period 3s fl. 1s, ec. 2s	36 11	8	Green tower on hut; 20.	

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SICILIA (SICILY) AND ADJACENT ISLANDS (I.)							
9830 <i>E 1792.7</i>	--Pontile Tragheti.	38° 29.3' N 14° 57.9' E	F.G.	20 6	7	Green post; 16.	Private light.
9832 <i>E 1790</i>	--Punta Scaliddi.	38° 28.1' N 14° 57.5' E	Fl.R. period 3s fl. 1s, ec. 2s	26 8	4	Red post; 20.	F.R.G. (vert.) 4M marks head of jetty 290 meters NNW.
9836 <i>E 1792</i>	-- Marina Corta.	38° 27.7' N 14° 57.5' E	Fl.(3)W. period 15s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 8s	36 11	15	Round stone tower; 7.	Reserve light range 11M.
9838 <i>E 1793</i>	--Porticello.	38° 30.9' N 14° 57.6' E	2 F.R. (vert.)	23 7 20 6	3	White post, red bands; 23.	Private light.
9840 <i>E 1800</i>	-Isola Panarea, Punta Peppemaria.	38° 38.2' N 15° 04.7' E	Fl.W.R. period 5s fl. 1s, ec. 4s	49 15	W. 10 R. 8	White tower; 23.	R. 319°-343° over Scoglio Le Formiche, W.-319°.
9844 <i>E 1802</i>	-Isola Stromboli, Isolott Strombolicchio, summit.	38° 49.0' N 15° 15.2' E	Fl.(3)W. period 15s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 8s	187 57	11	White round tower; 26.	
9846 <i>E 1785</i>	-Isola Filicudi.	38° 34.9' N 14° 31.6' E	Fl.(5)W. period 15s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 6s	66 20	12	Post; 20.	Obscured 090°-095°, 255°-317°.
9847 <i>E 1784</i>	-Isola Alicudi.	38° 32.0' N 14° 21.7' E	Fl.W. period 3s fl. 1s, ec. 2s	36 11	10	White post; 26.	Private light.
	-Isola Salina:						
9848 <i>E 1798</i>	-- Capo Faro (Salina).	38° 34.9' N 14° 52.2' E	L.Fl.W. period 6s fl. 2s, ec. 4s	184 56	18	Tower on building; 39.	Visible 123°-357°, light faint 123°-137°. Reserve light range 11M. AIS (MMSI No 992471085).
9852 <i>E 1796</i>	--Punta Lingua.	38° 32.2' N 14° 52.3' E	Fl.W. period 3s fl. 1s, ec. 2s	43 13	11	White tower on building; 36.	Visible 186°-076°.
9856 <i>E 2038</i>	Capo d'Orlando.	38° 10.0' N 14° 45.2' E	L.Fl.(2)W. period 12s fl. 2s, ec. 2s fl. 2s, ec. 6s	89 27	16	Tower on building; 33.	Reserve light range 12M.
9860 <i>E 2036</i>	Capo Cefalu.	38° 02.3' N 14° 02.1' E	Fl.W. period 5s fl. 0.2s, ec. 4.8s	262 80	25	White octagonal tower on house; 85.	Reserve light range 18M.
TERMINI IMERESE:							
9868 <i>E 2035</i>	-Pontile della Societa Tifeo.	37° 59.2' N 13° 45.2' E	Q.R.	66 20	5	White post.	Private light.
9870 <i>E 2035.2</i>	-Water intake.	37° 58.6' N 13° 45.2' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	33 10	3	Post, red and white bands.	Private light.
9876 <i>E 2030</i>	-Inner mole.	37° 59.2' N 13° 32.5' E	Fl.R. period 3s fl. 1s, ec. 2s	23 7	5	Red column on pedestal; 16.	
9892 <i>E 2025</i>	Punta Porticello, outer breakwater, head.	38° 05.1' N 13° 32.6' E	Fl.G. period 3s fl. 1s, ec. 2s	20 6	5	Pylon on hut; 13.	Private light.

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SICILIA (SICILY) AND ADJACENT ISLANDS (I.)							
9896 <i>E 2026</i>	-Transverse mole, head.	38° 05.2' N 13° 32.5' E	Fl.R. period 3s fl. 1s, ec. 2s	33 10	4	Red metal framework tower on pedestal; 20.	Safety distance 35m. Private light.
9900 <i>E 2023</i>	Capo Zafferano.	38° 06.6' N 13° 32.5' E	Fl.(3)W.R. period 10s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	111 34	W. 16 R. 12	White octagonal tower, house; 36.	W. 105°-298°, R.-344°, W.-355°. Reserve light range W. 12M, R. 9M.
PALERMO:							
9908 <i>E 2008</i>	-Diga Foranea, elbow.	38° 07.5' N 13° 22.6' E	Fl.(4)W. period 15s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 8s	49 15	15	White round tower; 36.	
	-RACON		P(• - - •) period 30s		10		
9910 <i>E 2013</i>	--Head.	38° 07.3' N 13° 22.8' E	L.F.I.G. period 5s fl. 2s, ec. 3s	33 10	5	Green post; 23.	
9912 <i>E 2014</i>	-S. mole, head.	38° 07.5' N 13° 22.4' E	L.F.I.R. period 5s fl. 2s, ec. 3s	31 9	8	Red tower; 20.	Safety distance 35m.
9914 <i>E 2010</i>	-Industrial Port, breakwater, head.	38° 07.9' N 13° 22.7' E	F.G.				
9916 <i>E 2019</i>	-Pontile Vittorio Veneto, head.	38° 07.5' N 13° 22.2' E	2 F.G. (vert.)	26 8 23 7	3	Post; 20.	Private light.
9917 <i>E 2011</i>	-Aguasanta, outer mole, head.	38° 08.6' N 13° 22.4' E	2 F.G. (vert.)	36 11	3	Green post; 30.	Private light.
9917.5 <i>E 2012</i>	--Inner mole, head.	38° 08.6' N 13° 22.3' E	2 F.R. (vert.)	36 11	3	Red post; 16.	Private light.
9924 <i>E 2005</i>	Mondello Valdesi, mole, head.	38° 11.8' N 13° 20.2' E	2 F.R. (vert.)	24 7 20 6	3	Red post; 16.	2 F.G. (vert.) on mole 0.6 miles NNW. Private light.
9936 <i>E 2004</i>	Capo Gallo.	38° 13.3' N 13° 19.1' E	L.FI.(2)W. period 15s fl. 2s, ec. 3s fl. 2s, ec. 8s	131 40	16	White round tower and house; 23.	Visible 077°-297°. Reserve light range 13M.
9940 <i>E 1994</i>	Punta Raisi, AVIATION LIGHT.	38° 11.4' N 13° 06.4' E	Al.FI.W.G.		35		Occasional. Private light.
9948	-AVIATION LIGHT, near point.	38° 11.1' N 13° 06.1' E	Mo.(Q)G. period 8s		12		Private light.
9952 <i>E 1993.54</i>	Terrasini, E. mole, head.	38° 09.0' N 13° 04.6' E	2 F.R. (vert.)	26 8	1	Red round post; 16.	Private light.
ISOLA D'USTICA:							
9956 <i>E 1996</i>	-Punta Omo-Morto.	38° 42.7' N 13° 11.8' E	Fl.(3)W. period 15s fl. 0.1s, ec. 2.9s fl. 0.1s, ec. 2.9s fl. 0.1s, ec. 8.9s	328 100	25	White tower, house; 33.	Visible 087°-356°. Reserve light range 18M.
			Oc.R. period 5s lt. 4s, ec. 1s	312 95	9		Visible 135°-145° over Secca Colombara.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SICILIA (SICILY) AND ADJACENT ISLANDS (I.)							
9960 <i>E 1997</i>	-Cala Santa Maria, mole, head.	38° 42.4' N 13° 11.9' E	2 F.R. (vert.)	31 9 26 8	3	Red post; 13.	Private light.
9964 <i>E 2000</i>	-Punta Cavazzi.	38° 41.6' N 13° 09.4' E	Fl.(4)W. period 12s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	131 40	16	White round tower; 92.	Visible 297°-194°. Reserve light range 12M.
9968 <i>E 1992</i>	Castellammare del Golfo.	38° 01.9' N 12° 52.8' E	Fl.(2)W. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	62 19	10	White square hut; 13.	Visible 093°-263°.
9972 <i>E 1993.5</i>	Terrasini, outer mole, head.	38° 09.4' N 13° 04.6' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	23 7	4	White post, black bands; 13.	Private light.
9976 <i>E 1993.6</i>	-Inner mole, head.	38° 09.4' N 13° 04.6' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	23 7	4	White post, red bands; 13.	Private light.
9980 <i>E 1993</i>	-N. mole, head.	38° 02.0' N 12° 52.9' E	Fl.G. period 8s fl. 1s, ec. 7s	19 6	3	Green post; 16.	Safety distance 35m.
9984 <i>E 1990</i>	-Punta Solanto, close N. of Torre dell'Usciore.	38° 10.4' N 12° 46.1' E	Fl.W.R. period 3s fl. 1s, ec. 2s	82 25	W. 10 R. 8	White quadrangular hut; 16.	R. 122°-144°, W.-122°.
9988 <i>E 1986</i>	Capo San Vito.	38° 11.2' N 12° 43.9' E	Fl.W. period 5s fl. 0.2s, ec. 4.8s	148 45	25	White round tower and house; 131.	Visible 036°-000°. Reserve light range 18M.
			Iso.R. period 4s	39 12	8	Same tower.	Visible 165°-225°.
9992 <i>E 1987</i>	-Breakwater, head.	38° 10.7' N 12° 44.0' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	23 7	5	Green post; 16.	Private light.
9996 <i>E 1988</i>	-Lee breakwater, head.	38° 10.7' N 12° 44.0' E	2 F.R. (vert.)	31 9 23 7	3	Red post; 20.	Private light.
ISOLE EGADI:							
10000 <i>E 1962</i>	Isola de Levanzo, Capo Grosso, island, N. head.	38° 01.1' N 12° 19.9' E	Fl.(3)W. period 15s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 8s	223 68	11	White round tower, and dwelling; 39.	Visible 032°-331°. Reserve light range 10M.
10004 <i>E 1956</i>	--Punta Libeccio.	37° 57.4' N 12° 03.0' E	Fl.(2)W. period 15s fl. 0.3s, ec. 3.5s fl. 0.3s, ec. 10.9s	240 73	24	White tower on two-story white dwelling, black bands; 79.	Visible 298°-151°. Reserve light range 15M.
-Isola Marettimo:							
10008 <i>E 1960</i>	--Punta San Simone, island, E. side.	37° 57.9' N 12° 04.6' E	Fl.G.	23 7	3	Green post; 16.	Safety distance 30m. Private light.
10012 <i>E 1958</i>	--Landing pier, head.	37° 58.1' N 12° 04.4' E	Fl.R. period 3s fl. 1s, ec. 2s	26 8	5	Red column on pedestal; 20.	
10016 <i>E 1948</i>	Isola Favignana, Punta Marsala.	37° 54.3' N 12° 22.0' E	Fl.(4)W. period 15s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	65 20	15	White round tower, two-story building; 46.	Visible 202°-095°. Reserve light range 11M.

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SICILIA (SICILY) AND ADJACENT ISLANDS (I.)							
10018 <i>E 1947.5</i>	Punta Scario Beacon.	37° 54.2' N 12° 24.3' E	Q.(9)W. period 15s	16 5	5	W. CARDINAL YBY, articulated beacon, topmark.	Radar reflector.
10020 <i>E 1952</i>	Punta Sottile.	37° 56.0' N 12° 16.4' E	Fl.W. period 8s fl. 0.3s, ec. 7.7s	141 43	25	White round tower, dwelling; 125.	Visible 316°-237°. Aeromarine light. Reserve light range 18M.
10024 <i>E 1949</i>	Favignana, outer mole, head.	37° 55.9' N 12° 20.8' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s	23 7	7	Red column on pedestal; 16.	Safety distance 35m.
10028 <i>E 1950</i>	-Inner mole, head.	37° 55.8' N 12° 19.6' E	2 F.G.R. (vert.)	23 7 19 6	4	Post, red and green bands; 20.	Private light.
10032 <i>E 1966</i>	Isolotto Formica, on the castle.	37° 59.3' N 12° 25.3' E	Fl.W. period 4s fl. 1s, ec. 3s	92 28	11	White round tower on building; 66.	
10036 <i>E 1968</i>	Scogli Porcelli, in approach to Trapani.	38° 02.6' N 12° 26.4' E	Fl.(2)W. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	75 23	11	Round tower; 82.	
10040 <i>E 1982</i>	Isolotto Asinelli, in approach to Trapani.	38° 03.8' N 12° 31.9' E	Fl.(2)W. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	43 13	7	ISOLATED DANGER BRB, tower, topmark; 36.	
10044 <i>E 1970</i>	Scoglio Palumbo , N. side of entrance.	38° 00.9' N 12° 29.3' E	Fl.W. period 5s fl. 1s, ec. 4s	54 16	15	White round tower and dwelling; 39.	Reserve light range 12M.
			Iso.R. period 2s	30 9	8		Visible 131°-176°.
10052 <i>E 1978</i>	-Molo del Ronciglio, head.	38° 00.6' N 12° 30.4' E	F.G.	33 10	3	Pylon on green hut; 7.	Safety distance 25m.
10060 <i>E 1979.2</i>	-Detached breakwater, E. head.	38° 00.7' N 12° 30.1' E	Fl.R. period 6s fl. 1s, ec. 5s	23 7	4	Red post on base; 20.	Visible 073°-023°.
MARSALA:							
10064 <i>E 1940</i>	-W. mole, inner head.	37° 47.2' N 12° 26.3' E	Fl.(2)W. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	62 19	15	White round tower, dwelling; 62.	Reserve light range 12M.
10068 <i>E 1942</i>	--Outer head.	37° 46.9' N 12° 26.2' E	Fl.R. period 3s fl. 1s, ec. 2s	36 11	8	Red column on pedestal; 20.	
10072 <i>E 1944</i>	-E. mole, head.	37° 47.1' N 12° 26.4' E	Fl.G. period 3s fl. 1s, ec. 2s	30 9	8	Green column on pedestal; 20.	
10076 <i>E 1938</i>	Capo Feto.	37° 39.6' N 12° 31.8' E	L.Fl.W. period 10s fl. 2s, ec. 8s	46 14	11	White round tower on square hut; 39.	
10078 <i>E 1938.3</i>	-Gas pipeline beacon.	37° 39.5' N 12° 32.3' E	Fl.(3)Y. period 10s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	26 8	4	SPECIAL Y, post, topmark, letter G.	Marks gas pipeline. Private light.
10080 <i>E 1932</i>	Mazara del Vallo, W. mole, head.	37° 38.6' N 12° 35.0' E	Fl.R. period 4s fl. 1s, ec. 3s	43 13	5	Red column on pedestal; 16.	
10082 <i>E 1932.5</i>	-SE. corner.	37° 38.8' N 12° 34.9' E	Iso.Y. period 2s	33 10	3	Yellow column on pedestal; 16.	

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SICILIA (SICILY) AND ADJACENT ISLANDS (I.)							
10084 <i>E 1933</i>	-E. mole, head.	37° 38.7' N 12° 35.0' E	Fl.G. period 4s fl. 1s, ec. 3s	43 13	8	Green column on pedestal; 16.	
10092 <i>E 1930</i>	Capo Granitola.	37° 33.8' N 12° 40.1' E	L.Fl.W. period 10s fl. 3s, ec. 7s	123 37	18	White round tower; 115.	Reserve light range 13M.
10094 <i>E 1928.5</i>	Capo San Marco.	37° 29.9' N 13° 01.2' E	Fl.(3)W. period 15s fl. 0.2s, ec. 3.7s fl. 0.2s, ec. 3.7s fl. 0.2s, ec. 7s	82 25	18	White tower on hut; 36.	Reserve light range 18M.
SCIACCA:							
10096 <i>E 1926</i>	-Molo di Levante, old head.	37° 30.1' N 13° 04.9' E	Fl.G. period 5s fl. 1s, ec. 4s		2	Green post; 10.	Visible inside the harbor only.
10100 <i>E 1926.2</i>	--Head.	37° 30.0' N 13° 04.8' E	Fl.G. period 4s fl. 1s, ec. 3s		2	Green column.	Visible inside the harbor only.
10104 <i>E 1927</i>	-Molo di Ponete, about 7 meters from head.	37° 30.0' N 13° 04.8' E	L.Fl.R. period 6s fl. 2s, ec. 4s	30 9	8	Red column on pedestal; 16.	Safety distance 40m.
10108 <i>E 1928</i>	-Diga di Levante.	37° 29.9' N 13° 04.7' E	L.Fl.G. period 6s fl. 2s, ec. 4s	36 11	8	Green column on pedestal; 20.	
10112 <i>E 1922</i>	Capo Rosello.	37° 17.6' N 13° 27.1' E	Fl.(2)W. period 10s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 7.3s	312 95	22	Tower on building; 26.	Reserve light range 18M.
PORTO EMPEDOCLE:							
10116 <i>E 1918</i>	-E. mole, head.	37° 16.7' N 13° 31.8' E	Fl.G. period 3s fl. 1s, ec. 2s	30 9	8	Green tower; 23.	
10120 <i>E 1916</i>	-W. mole, head.	37° 16.4' N 13° 31.7' E	Fl.R. period 3s fl. 1s, ec. 2s	39 12	8	Red column on pedestal; 16.	4 F.R. lights are shown from each of 2 chimneys, 269 feet high, about 275 yards west of root of W. mole.
10124 <i>E 1920</i>	-Molo Francesco Crispi, old port, W. side.	37° 17.0' N 13° 31.9' E	2 F.R. (vert.)	19 6 15 5	3	Red post; 13.	Visible 172°-050°.
LICATA:							
10128 <i>E 1904</i>	-Mole di Levante.	37° 05.7' N 13° 56.6' E	Fl.W. period 5s fl. 0.3s, ec. 4.7s	131 40	21	White round tower; 123.	Obscured 095°-shore. Reserve light range 18M.
10132 <i>E 1908</i>	-Diga di Levante, head.	37° 05.2' N 13° 56.7' E	Fl.G. period 5s fl. 1s, ec. 4s	33 10	8	Green round tower; 26.	
10136 <i>E 1906</i>	--E. head.	37° 05.3' N 13° 56.3' E	Fl.R. period 3s fl. 1s, ec. 2s	30 9	4	Red tower; 3.	
10137 <i>E 1907</i>	-Darsena Marianello entrance, W.	37° 05.5' N 13° 56.0' E	2 F.R. (vert.)	20 6 13 4	3	Red post; 16.	F.Y. 2m 1M is shown on two piers inside the harbor. Private light.
10138 <i>E 1912.5</i>	--E. head.	37° 05.5' N 13° 56.1' E	2 F.G. (vert.)	20 6 13 4	3	Green post; 16.	Private light.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SICILIA (SICILY) AND ADJACENT ISLANDS (I.)							
10140 <i>E 1912</i>	-Molo di Ponente, head.	37° 05.5' N 13° 56.2' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	39 12	4	Red column on pedestal; 16.	Visible 160°-325°.
10144 <i>E 1905</i>	-Molo di Levante, head.	37° 05.5' N 13° 56.3' E	Fl.G. period 3s fl. 1s, ec. 2s	39 12	4	Green column on pedestal; 16.	
GELA:							
10152 <i>E 1902</i>	-Porto Refugio, Molo di Levante, head.	37° 03.8' N 14° 13.8' E	Fl.G. period 3s fl. 1s, ec. 2s	16 5	8	Green column on pedestal; 26.	Safety distance 25m.
10156 <i>E 1902.2</i>	--Molo di Ponente, head.	37° 03.7' N 14° 13.8' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	26 8	8	Red column on pedestal; 16.	Safety distance 25m.
10160 <i>E 1900.6</i>	-Jetty, head.	37° 02.5' N 14° 15.6' E	2 F.R. (vert.)	32 10 29 9	3	Red post; 16.	Private light.
10164 <i>E 1900.4</i>	-Porto Isola, pier, head.	37° 01.8' N 14° 15.1' E	2 F.R.G. (vert.)	75 23 70 21	3	Post, red and black bands.	Private light.
10168 <i>E 1900.2</i>	--Breakwater, W. head.	37° 02.0' N 14° 14.8' E	Oc.G. period 4s lt. 3s, ec. 1s	40 12	3	Green post on sentry box; 16.	Private light.
10172 <i>E 1900</i>	--Breakwater, E. head.	37° 01.7' N 14° 15.5' E	Oc.R. period 4s lt. 3s, ec. 1s	40 12	3	Red mast on sentry box; 17.	Private light.
10180 <i>E 1898</i>	Scoglitti.	36° 53.2' N 14° 26.4' E	Fl.(3)W. period 10s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	49 15	11	White tower on building; 43.	
10184 <i>E 1896</i>	Scaramia.	36° 47.1' N 14° 30.0' E	Fl.(2)W. period 8s fl. 1.5s, ec. 1s fl. 1.5s, ec. 4s	121 37	16	White round tower; 112.	Reserve light range 12M.
10188 <i>E 1894</i>	Marina de Ragusa (Mazzarelle), on beach.	36° 46.8' N 14° 33.9' E	Fl.R. period 5s fl. 1s, ec. 4s	40 12	8	Yellow tower on building; 39.	
10190 <i>E 7120</i>	Platform VEGA.	36° 32.2' N 14° 37.5' E	4 Mo.(U)W. period 15s	62 19	10	Tower, white and red bands, yellow platform; 226.	Aero Obstruction lights 10 F.R. 3M. Horn: Mo.(U) ev. 30s. Private light.
			3 Mo.(U)R. period 15s	197 60	5		
	RACON		V(•••-) period 30s		10		
10192 <i>E 1892</i>	Donnalucata, jetty, head.	36° 45.0' N 14° 38.0' E	2 F.G. (vert.)	23 7	3	Green post; 16.	Private light.
10196 <i>E 1889.05</i>	Pozzallo , on beach.	36° 43.2' N 14° 50.7' E	Fl.(4)W. period 12s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	59 18	15	White stone tower; 49.	Reserve light range 11M.
10208 <i>E 1888</i>	Scogli Porri, on largest rock.	36° 40.9' N 14° 56.5' E	Fl.(2)W. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	34 10	11	Black and red banded framework tower on masonry hut; 26.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SICILIA (SICILY) AND ADJACENT ISLANDS (I.)							
10212 <i>E 1886</i>	Isola delle Correnti, S. point.	36° 38.3' N 15° 05.6' E	Fl.W. period 4s fl. 1s, ec. 3s	52 16	11	Tower on dwelling; 36.	
10216 <i>E 1885</i>	Porto Palo, mole, head.	36° 41.0' N 15° 09.0' E	Fl.G. period 3s fl. 1s, ec. 2s	19 6	3	Green column; 13.	Obscured 060°-130°. Safety distance 25m. Private light.
10220 <i>E 1885.4</i>	-Platform, about 82 meters off oil pier, head.	36° 40.2' N 15° 07.5' E	Q.Y.	40 12	3	Yellow post.	
10224 <i>E 1882</i>	Cozzo Spadaro.	36° 40.9' N 15° 08.7' E	Fl.(3)W. period 15s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 8.8s	270 82	24	White tower on dwelling; 118.	Visible 170°-095°. Reserve light range 18M. Aeromarine.
10228 <i>E 1884</i>	Capo Passero.	36° 41.0' N 15° 09.0' E	Fl.(2)W. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	128 39	11	White tower on castle; 62.	Visible 151°-063°.
10230 <i>E 1880</i>	ACQUA AZZURA, LIGHTSHIP	36° 42.9' N 15° 09.2' E	F.R.				F.W. on bow and stern. Vessel 50 meters in length. Private.
10232 <i>E 1879</i>	Marzamemi, mole, head.	36° 43.7' N 15° 08.0' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	34 10	3	Red column on pedestal; 20.	2 F.R.W. (vert.) are shown from N. breakwater. Safety distance 30m. Private light.
10236 <i>E 1878</i>	-N. breakwater, head.	36° 43.0' N 15° 08.0' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	26 8	4	Green column on pedestal; 16.	Safety distance 25m. Private light.
10238 <i>E 1877.8</i>	Ognina.	36° 58.8' N 15° 15.8' E	Iso.W. period 2s	16 5	2	White post.	Private light.
10240 <i>E 1876</i>	Capo Murro di Porco.	37° 00.0' N 15° 20.7' E	Fl.W. period 5s fl. 1s, ec. 4s	112 34	17	White multi-sided tower; 66.	Visible 160°-090°. Reserve light range 10M.
SIRACUSA:							
10244 <i>E 1867</i>	-Punta Castelluccio, entrance, S. side.	37° 02.5' N 15° 18.3' E	Fl.R. period 3s fl. 1s, ec. 2s	69 21	9	Red tower on building; 26.	
10248 <i>E 1866</i>	-Castello Maniace, entrance, N. side.	37° 03.1' N 15° 17.8' E	Fl.G. period 3s fl. 1s, ec. 2s	90 27	9	Green tower on building; 23.	Visible 188°-330°.
10250 <i>E 1865.5</i>	-Isola dei Cani.	37° 03.7' N 15° 18.1' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	20 6	3	ISOLATED DANGER BRB, post, topmark.	Private light.
10252 <i>E 1868</i>	-Caderini, W. shore of Porto Grande, entrance Range, front.	37° 02.8' N 15° 16.5' E	Iso.R. period 2s	39 12	17	Tower, red and white checkered dwelling; 26.	Visible 224°-274°. Reserve light range 12M.
10256 <i>E 1868.1</i>	--Carroziere, rear, about 969 meters 267°-12' from front.	37° 02.8' N 15° 15.7' E	Oc.W. period 5s lt. 4s, ec. 1s	82 25	17	Tower, red and white checkered dwelling; 49.	Visible 261°-272°. Reserve light range 10M.
10260 <i>E 1870</i>	-La Darsena, S. entrance, E. side.	37° 03.8' N 15° 17.4' E	F.G.	18 5	3	White and black banded post; 10.	F.R. 5m 3M marks W. side of entrance. Private light.
10268 <i>E 1864</i>	-Porto Marmorea, N. breakwater, head.	37° 04.0' N 15° 17.7' E	2 F.G. (vert.)	33 10 26 8	3	Green post on hut; 16.	Safety distance 15m. Private light.
10272 <i>E 1865</i>	--S. breakwater, head.	37° 04.0' N 15° 17.7' E	2 F.R. (vert.)	33 10 26 8	3	Red post on hut; 16.	Private light.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SICILIA (SICILY) AND ADJACENT ISLANDS (I.)							
10276 <i>E 1862</i>	Baia dis Panagia, pier, head.	37° 07.0' N 15° 16.2' E	2 F.G.R. (vert.)		5	White post, black bands.	Private light.
10280 <i>E 1862.4</i>	-Pier, head.	37° 07.0' N 15° 16.0' E	F.G.		2	White post, black bands; 16.	Private light.
10282 <i>E 1861.8</i>	-Dockyard pier, head.	37° 06.8' N 15° 15.2' E	Q.R.	23 7	4	Post.	Private light.
10284 <i>E 1862.5</i>	-A1 Range, front.	37° 06.0' N 15° 15.0' E	Q.G.	42 13	4	Green post.	Visible 211°-244°. Private light.
10288 <i>E 1862.51</i>	--Rear, 229° 340 meters from front.	37° 06.4' N 15° 15.2' E	Oc.G. period 3s lt. 2s, ec. 1s	65 20	4	Green post.	Visible 196°-239°. Private light.
10292 <i>E 1862.59</i>	-A2 Range, front.	37° 06.3' N 15° 15.7' E	Q.R.	43 13	4	Red post.	Visible 214°-247°. Private light.
10296 <i>E 1862.6</i>	--Common rear, 340 meters 229° from A2 front, 380 meters 245° from A3 front.	37° 06.2' N 15° 15.6' E	Oc.R. period 3s lt. 2s, ec. 1s	65 20	4	Red post.	Visible 219°-251°30. Private light.
10300 <i>E 1862.61</i>	-A3 Range, front.	37° 06.4' N 15° 15.7' E	Q.W.	42 13	5	White post.	Visible 218°-251°. Private light.
10304 <i>E 1862.8</i>	--Beacon.	37° 07.0' N 15° 16.0' E	Fl.Y. period 3s fl. 0.5s, ec. 2.5s	10 3	4	Yellow beacon.	Private light.
10304.5 <i>E 1862.9</i>	-Terminal.	37° 06.6' N 15° 15.5' E	Fl.Y. period 5s fl. 1s, ec. 4s	20 6	3	SPECIAL Y, articulated beacon, topmark.	Marks pipeline terminal. Private light.
10305 <i>E 1861.5</i>	-Seawater intake.	37° 08.4' N 15° 13.4' E	2 F.R. (vert.)	26 8 20 6	4	Red post; 16.	Private light.
10306 <i>E 1861</i>	-Pontile Gulf, head.	37° 08.7' N 15° 14.3' E	2 F.G. (vert.)	56 17 53 16	3	Post on green castle; 56.	Private light.
10308 <i>E 1860</i>	Pensola Magnisi, on point, N. side.	37° 09.0' N 15° 14.0' E	Fl.(4)W. period 12s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	33 10	11	Truncated conical tower, white and black bands, on concrete base; 20.	Visible 090°-320°.
10316 <i>E 1859</i>	Seno del Priolo, oil pier, head.	37° 09.8' N 15° 12.7' E	Iso.R. period 2s	33 10	3	Post; 20.	Private light.
AUGUSTA:							
10320 <i>E 1847</i>	-Diga Settentrionale, off head.	37° 11.8' N 15° 14.0' E	Fl.(2)G. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	39 12	8	STARBOARD (A) G, beacon, topmark; 39.	Radar reflector.
	-RACON		G(- - •) period 30s		10		
10324 <i>E 1848</i>	-Diga Centrale, off N. head.	37° 11.6' N 15° 14.0' E	Fl.(2)R. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	46 14	8	PORT (A) R, beacon, topmark; 46.	2 F.R. mark floodlit chimney 3.1 miles WNW. Radar reflector.
10328 <i>E 1846</i>	-Punta Gennalena, entrance Range, front.	37° 11.8' N 15° 11.2' E	Iso.W. period 4s	54 16	12	White tower, black bands, on white building; 30.	Visible 247°-299°. F.R. marks chimney 1.2 miles NW.
10332 <i>E 1846.1</i>	--Dromo Giggia, rear, 3 km. 273°51' from front.	37° 12.0' N 15° 09.2' E	Oc.W. period 5s lt. 3s, ec. 2s	259 79	17	White tower, black bands, on white building; 30.	Visible 245°-301°. Reserve light range 13M.
10336 <i>E 1849</i>	-Porticciolo di Terre Vecchie, breakwater, head.	37° 12.9' N 15° 13.5' E	F.R.	26 8	3	Red post; 20.	

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SICILIA (SICILY) AND ADJACENT ISLANDS (I.)							
10337 <i>E 1849.4</i>	-Augusta.	37° 13.1' N 15° 12.9' E	Q.(9)W. period 15s	16 5	5	W. CARDINAL YBY, articulated beacon, topmark.	Radar reflector.
10338 <i>E 1849.6</i>	--Darsena Servizi, W. mole, head.	37° 13.5' N 15° 13.0' E	Fl.G. period 5s fl. 1s, ec. 4s	20 6	4	Green post; 16.	Fl.R. 5s 4M marks E. mole. Private light.
10340 <i>E 1850</i>	-Cala dei Molo, entrance, S. side.	37° 13.8' N 15° 13.1' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	23 7	4	Green post on hut; 20.	A F.R. light is located at Porto di Augusta on the Cathedral Belfry.
10352 <i>E 1852</i>	-Pontile Shell, head.	37° 14.3' N 15° 12.9' E	2 F.G. (vert.)	21 6 16 5	3	Post; 16.	Private light.
10354 <i>E 1852.5</i>	-Commercial Pier, head.	37° 14.1' N 15° 11.8' E	F.G.	20 6	4	Green post; 16.	Private light.
10355 <i>E 1852.6</i>	-Pontile Ro-Ro, head.	37° 14.1' N 15° 11.7' E	3 F.R.G.R. (vert.)	26 8	4	Structure, red and green bands; 20.	Private light.
10364 <i>E 1854</i>	-Pontile Esso No. 1, 150 meters from head.	37° 12.7' N 15° 11.6' E	2 F.R.G. (vert.)	29 9 23 7	3	Gray post.	Private light.
10368 <i>E 1855</i>	--No. 2.	37° 12.4' N 15° 11.7' E	3 F.R.R.G. (vert.)	26 8 20 6 13 4	3	Yellow post; 79.	Private light.
10372 <i>E 1855.2</i>	--Water hydrant.	37° 12.6' N 15° 11.1' E	Fl.Y. period 3s fl. 0.5s, ec. 2.5s		3	SPECIAL Y, structure, topmark.	Private light.
10376 <i>E 1856</i>	-Cement pier, head.	37° 11.7' N 15° 11.6' E	2 F.G. (vert.)	40 12 36 11	3	Green post; 36.	Private light.
10378 <i>E 1856.5</i>	-Pier, head.	37° 11.5' N 15° 11.4' E	F.R.	23 7	3	Yellow post.	Private light.
10380 <i>E 1857</i>	-Pontile Marina Militare, head.	37° 11.5' N 15° 11.8' E	2 Fl.G.R. (vert.) period 2s fl. 0.5s, ec. 1.5s	30 9 23 7	3	Green post, red bands; 13.	
10384 <i>E 1857.4</i>	-Supertanker Pier, head.	37° 11.3' N 15° 12.4' E	3 F.G. (vert.)	60 18 56 17 49 15	3	Green post.	Private light.
10386 <i>E 1858</i>	-Liquids Pier, head.	37° 10.9' N 15° 12.4' E	3 F.G.R.G. (vert.)	56 17 53 16 46 14	3	Post; 46.	Private light.
10387 <i>E 1858.1</i>	-Center, head.	37° 10.7' N 15° 12.2' E	F.R.		3	Gray post.	Private light.
10388 <i>E 1858.2</i>	-Solids Pier, head.	37° 10.5' N 15° 12.4' E	3 F.R.G.R. (vert.)	59 18 54 16 49 15	3	Post; 46.	Private light.
10389 <i>E 1858.3</i>	-Jetty.	37° 10.4' N 15° 12.4' E	F.R.		3	Gray post.	Private light.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SICILIA (SICILY) AND ADJACENT ISLANDS (I.)							
10390 <i>E 1858.4</i>	-South Passage, E. side.	37° 10.6' N 15° 13.0' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	30 9	5	STARBOARD (A) G, beacon tower, topmark; 33.	Safety distance 50. Private light.
10391 <i>E 1858.6</i>	--W. side.	37° 10.5' N 15° 12.8' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	30 9	5	PORT (A) R, beacon tower, topmark; 33.	Safety distance 30m. Private light.
10392 <i>E 1838</i>	Capo Santa Croce.	37° 14.5' N 15° 15.5' E	L.Fl.(2)W. period 12s fl. 2s, ec. 2s fl. 2s, ec. 6s	128 39	16	White round tower; 89.	Visible 146°-021°. Reserve light range 10M.
10396 <i>E 1836</i>	Brucoli, entrance, E. side.	37° 17.0' N 15° 11.4' E	Fl.W. period 5s fl. 1s, ec. 4s	43 13	11	White tower, red band on building; 16.	Obscured by Capo Campolato when bearing greater than 230°.
CATANIA:							
10400 <i>E 1828</i>	-Sciara Biscari.	37° 29.2' N 15° 05.2' E	Fl.W. period 5s fl. 0.4s, ec. 4.6s	102 31	22	White round tower; 92.	Reserve light range 18M.
10404 <i>E 1832</i>	-Molo di Mezzogiorno, head.	37° 29.4' N 15° 05.9' E	Fl.R. period 2s fl. 0.5s, ec. 1.5s	36 11	5	Red column on pedestal; 16.	
10408 <i>E 1832.5</i>	--S. head.	37° 29.3' N 15° 05.7' E	L.Fl.R. period 5s fl. 2s, ec. 3s	24 7	5	Red post on platform; 16.	
10420 <i>E 1830</i>	-Molo di Levante, head.	37° 29.1' N 15° 06.0' E	L.Fl.G. period 5s fl. 2s, ec. 3s	39 12	8	Green column on pedestal; 20.	
10424 <i>E 1831</i>	-Molo di Levante, knuckle.	37° 29.4' N 15° 06.0' E	Fl.G. period 2s fl. 0.5s, ec. 1.5s	37 11	5	Green column on pedestal; 16.	Obscured from 175°-355°.
10428 <i>E 1827</i>	Acicastello, Molo Porticiolo, N. corner.	37° 33.0' N 15° 09.9' E	Fl.R. period 4s fl. 1s, ec. 3s	19 6	3	Red post; 10.	Private light.
10432 <i>E 1826</i>	Capo Molini.	37° 34.6' N 15° 10.6' E	Fl.(3)W. period 15s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 8.8s	138 42	22	White hut on building; 66.	Reserve light range 18M.
10434 <i>E 1821</i>	Giardini Naxos, mole, head.	37° 49.6' N 15° 16.5' E	Fl.R. period 4s fl. 1s, ec. 3s	16 5	8	Red column.	Private.
RIPOSTO:							
10436 <i>E 1822</i>	-Punta Chiancona.	37° 43.7' N 15° 12.7' E	L.Fl.W. period 5s fl. 2s, ec. 3s	49 15	11	White round tower; 20.	
10440 <i>E 1823</i>	-E. mole, head.	37° 44.0' N 15° 12.7' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	36 11	5	Red column.	Safety distance 80 m.
10442 <i>E 1824</i>	-W. mole, head.	37° 44.0' N 15° 12.4' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	20 6	4	Green post; 16.	
ISOLE PELAGIE:							
-Isola di Lampedusa:							
10444 <i>E 2088</i>	-- Capo Grecale.	35° 31.0' N 12° 37.9' E	Fl.W. period 5s fl. 0.3s, ec. 4.7s	269 82	22	Polygonal tower on dwelling; 62.	Visible 112°-075°. Reserve light range 18M.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SICILIA (SICILY) AND ADJACENT ISLANDS (I.)							
10448 E 2089	--Lampedusa, on Punta Maccafferri, entrance, E. side.	35° 29.6' N 12° 36.2' E	Fl.G. period 3s fl. 1s, ec. 2s	57 17	8	Green column on pedestal; 16.	
10452 E 2092	---Health office, mole, head.	35° 29.8' N 12° 36.3' E	F.R.	23 7	3	Red post; 13.	
10456 E 2091	--Punta Favalaro, breakwater, head.	35° 29.8' N 12° 36.2' E	Fl.R. period 5s fl. 1s, ec. 4s	23 7	7	Red column on pedestal; 16.	Safety distance 15m.
10460 E 2090	--Punta Guitgia, entrance, W. side.	35° 29.6' N 12° 35.9' E	Fl.R. period 3s fl. 1s, ec. 2s	47 14	8	Red column on pedestal; 16.	
10464 E 2086	--Capo Ponente, island, W. head.	35° 31.1' N 12° 31.2' E	Fl.(3)W. period 15s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 8s	360 110	8	White column on pedestal; 20.	Visible 290°-222°.
-Isola di Linosa:							
10468 E 2082	--Punta Beppe Tuccio.	35° 52.2' N 12° 52.6' E	Fl.(4)W. period 20s fl. 1s, ec. 3s fl. 1s, ec. 3s fl. 1s, ec. 3s fl. 1s, ec. 7s	105 32	16	White round tower, dwelling; 56.	Visible 107°-345°, at distance less than 6 miles 103°- 346°. Reserve light range 12M.
10472 E 2080	--Punta Arena Bianca, island, SW. side.	35° 51.3' N 12° 51.2' E	Fl.W. period 5s fl. 1s, ec. 4s	31 9	9	Pylon on white hut; 20.	Visible 276°30'-150°.
10476 E 2084	-Isolotto Lampione.	35° 32.9' N 12° 19.2' E	Fl.(2)W. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	131 40	7	Square hut; 20.	
ISOLA DI PANTELLARIA:							
10480 E 2094	-Punta Spadillo.	36° 49.3' N 12° 00.7' E	Fl.(2)W. period 10s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 7.3s	164 50	24	White round tower on dwelling; 69.	Reserve light range 18M.
10484 E 2107	-Punta Tracino.	36° 47.9' N 12° 02.9' E	Fl.(2)W. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	161 49	10	White round tower; 10.	
10492 E 2106	-Punta Limarsi.	36° 44.3' N 12° 02.2' E	Fl.(3)W. period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9.5s	115 35	7	White column on pedestal; 16.	
10496 E 2096	-Scauri.	36° 46.1' N 11° 57.5' E	Fl.W. period 5s fl. 1s, ec. 4s	60 18	10	White column on pedestal; 20.	Fl.R. 3s shown from head of W. mole, Fl.G. 3s shown from head of E. mole.
10500 E 2098	-Punta San Leonardo.	36° 50.1' N 11° 56.7' E	Fl.W. period 3s fl. 1s, ec. 2s	69 21	15	White lantern on red building; 10.	Reserve light range 8M.

Section 8

Malta, South and East Coasts of Italy, and Slovenia

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MALTA AND GHAWDEX (GOZO)							
GHAWDEX (GOZO):							
10504 E 2050	-Gurden (Gordan).	36° 04.4' N 14° 13.1' E	Fl.W. period 7.5s fl. 0.3s, ec. 7.2s	592 180	20	White tower on dwelling; 72.	
10508 E 2051	-Ramla Tal-Mgarr Harbor, main breakwater.	36° 01.5' N 14° 18.2' E	Fl.R. period 4s				
10512 E 2051.2	--N. breakwater, head.	36° 01.6' N 14° 18.2' E	Fl.G. period 5s				
KEMMUNA RAS L-LRQIEQA:							
10516 E 2054	-Irkieka ta Kemmuna.	36° 00.3' N 14° 19.5' E	Fl.W. period 2s	23 7	2	White concrete column.	
MALTA:							
10524 E 2055.5	-Cirkewwa, ro-ro terminal, head.	35° 59.4' N 14° 19.8' E	Fl.R. period 2s	33 10	2	Concrete column.	
10526 E 2057	-Mellieha rock.	35° 58.3' N 14° 21.5' E	Fl.(2)W. period 5s	10 3	2		
10528 E 2058	-St. Paul's Bay, jetty, root.	35° 56.9' N 14° 23.4' E	Fl.R. period 2s	26 8	2	White column on base; 20.	
10532	--Fairway Buoy.	35° 54.8' N 14° 32.5' E	L.Fl.W. period 10s			SAFE WATER RW, pillar, topmark.	Radar reflector.
10544 E 2061.5	-Valleta.	35° 54.2' N 14° 31.1' E	Fl.(3)W. period 15s	112 34	19	Metal framework tower on Fort St. Elmo.	
10548 E 2062	--St. Elmo, W. side of entrance to Grand Harbor, breakwater, head.	35° 54.2' N 14° 31.6' E	Q.G.	52 16	7	White round tower, red band on E. side.	
10552 E 2064	--Ricasoli Breakwater, Grand Harbor, E. side of entrance, head.	35° 54.0' N 14° 31.4' E	Q.R.	36 11	6	Metal structure on white round stone tower, red bands on E. side; 30.	Obscured 120°-157° during firing or searchlight exercises.
10560 E 2068	-Luca AVIATION LIGHT.	35° 51.4' N 14° 28.1' E	Mo.(LU)G. period 9s	340 104	25	Structure; 10.	Visible from 170° to 345°.
10564 E 2070	-Delimara Point.	35° 49.4' N 14° 33.6' E	Fl.(2)W. period 12s	115 35	15	Black tower, white band, on building.	Visible 272°-090°.
10565 E 2070.6	--Breakwater, head.	35° 49.1' N 14° 33.0' E	Fl.R. period 3s fl. 0.7s, ec. 2.3s	59 18	6		Visible 260°-042°.
10566 E 2070.4	--Inner breakwater.	35° 49.2' N 14° 32.7' E	Q.R.	30 9	8		
10568 E 2070.7	--Container terminal No. 2, E.	35° 49.3' N 14° 32.6' E	L.Fl.R. period 10s	30 9	8		Wharf marked by V.Q.R. 9m 6M 250 meters W., Fl.R. 5s 9m 7M 350 meters W.
10572 E 2076	--Fueling dolphin.	35° 49.7' N 14° 33.0' E	Fl.W. period 2s fl. 0.5s, ec. 1.5s			Dolphin.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ITALY-SOUTHEAST COAST							
10580 <i>E 1782</i>	Capo Spartivento.	37° 55.5' N 16° 03.7' E	Fl.W. period 8s fl. 0.3s, ec. 7.7s	208 63	24	White tower on dwelling; 49.	Visible 222°-082°. Reserve light range 18M.
10584 <i>E 2108</i>	Punta Stilo.	38° 26.8' N 16° 34.7' E	Fl.(3)W. period 15s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 8.8s	177 54	22	White octagonal tower, black bands; 49.	Reserve light range 18M.
10588 <i>E 2109</i>	Siderno Marina.	38° 27.0' N 16° 35.0' E	F.R.G. (vert.)	43 13 39 12	3	Post, red and black bands.	Private light.
10596 <i>E 2112</i>	Capo Rizzuto.	38° 53.7' N 17° 05.7' E	L.Fl.(2)W.R. period 10s fl. 2s, ec. 1s fl. 2s, ec. 5s	121 37	W. 17 R. 13	White tower on dwelling; 56.	R. 227°-270°, W.-084°, R.-133°. Reserve light range W. 11M, R. 8M.
10600 <i>E 2118</i>	Capo Colonne.	39° 01.5' N 17° 12.4' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	131 40	24	White tower on two-story dwelling; 72.	Visible 127°-020°. Reserve light range 18M.
CROTONE:							
10604 <i>E 2122</i>	-Porto Vecchio, 38 meters from breakwater, head.	39° 04.6' N 17° 08.2' E	Fl.(2)G. period 5s fl. 1s, ec. 1s fl. 1s, ec. 2s	36 11	8	Green column on hut; 29.	Safety distance 60m.
10608 <i>E 2123</i>	-Molo Sanita, head.	39° 04.6' N 17° 08.1' E	Fl.(2)R. period 5s fl. 1s, ec. 1s fl. 1s, ec. 2s	30 9	8	Red column on hut; 26.	
10612 <i>E 2121.5</i>	-Porto Nuovo, head of Molo Giunti.	39° 05.2' N 17° 07.9' E	F.G.	30 9	4	Green post; 23.	
10616 <i>E 2121</i>	-Molo Sottoflutto, head.	39° 05.6' N 17° 07.6' E	Fl.G. period 5s fl. 1s, ec. 4s	36 11	8	Green tower; 23.	Safety distance 50m.
10620 <i>E 2120</i>	-Foraneo, mole, head.	39° 05.8' N 17° 07.6' E	Fl.R. period 5s fl. 1s, ec. 4s	36 11	8	Red tower; 23.	Safety distance 100m.
10624 <i>E 2128</i>	Punta Alice.	39° 24.0' N 17° 09.5' E	Fl.(2)W. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	102 31	16	White tower on dwelling; 89.	Reserve range light 12M.
10628 <i>E 2130</i>	Capo Trionto.	39° 37.0' N 16° 46.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	69 21	12	White tower on dwelling; 59.	Reserve light F.W. 9M.
10630 <i>E 2130.5</i>	Punta Coscio.	39° 43.9' N 16° 30.4' E	Fl.(4)W. period 20s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 12s	75 23	12	Tower on three-story building; 66.	Private light.
10631 <i>E 2130.6</i>	Laghi di Sibari Range, front.	39° 44.0' N 16° 30.6' E	Iso.W. period 2s		4	White tower, black bands; 13.	Visible 124°-154°. Private light.
10631.1 <i>E 2130.61</i>	-Rear, 60 meters 139° from front.	39° 44.1' N 16° 30.6' E	Iso.W. period 2s	23 7	4	Pyramidal mast, red and white bands; 20.	Visible 136°-246°. Synchronized with front.
10632 <i>E 2131</i>	Laghi di Sibari, marina, head of S. mole.	39° 44.0' N 16° 31.0' E	F.R.	20 6	6	Red post; 20.	Private light.
10636 <i>E 2131.2</i>	-N. mole, head.	39° 44.0' N 16° 31.0' E	F.G.	20 6	6	Green post; 20.	Private light.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ITALY-SOUTHEAST COAST							
TARANTO:							
10640 E 2132	-Capo San Vito.	40° 24.6' N 17° 12.3' E	Fl.(3)W. period 15s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 8.8s	151 46	22	White tower on two-story dwelling; 141.	Reserve light range 18M.
10642 E 2133	-Mar Grande.	40° 25.3' N 17° 10.6' E	Q.(9)W. period 15s	26 8	5	W. CARDINAL YBY, articulated beacon, topmark.	Radar reflector.
10644 E 2134	-Diga di San Vito, W. head.	40° 25.8' N 17° 11.7' E	Fl.(2)G. period 7s fl. 1s, ec. 1s fl. 1s, ec. 4s	72 22	9	Green tower; 62.	When near Capo San Vito, partially obscured by the lights of Taranto.
10646 E 2137	-Isola San Pietro, jetty, head.	40° 27.3' N 17° 09.7' E	Fl.Y. period 4s fl. 1s, ec. 3s	26 8	4	Yellow post; 23.	Private light.
10648 E 2138	-Isolotto San Paolo, breakwater, head.	40° 26.1' N 17° 10.9' E	Fl.(2)R. period 7s fl. 1s, ec. 1s fl. 1s, ec. 4s	38 12	7	Red round tower; 33.	Safety distance 50 meters.
10650 E 2142.3	-Secca della Sirena, S.	40° 27.6' N 17° 12.9' E	Q.(6)+L.Fl.W. period 15s	16 5	5	S. CARDINAL YB, articulated beacon, topmark.	Q.R. and Q.G. articulated lights mark channel to E. Radar reflector.
10656 E 2142.4	-Secca della Sirena, W.	40° 27.7' N 17° 12.8' E	Q.R.	19 6	6	PORT (A) R, beacon, topmark.	Private light. Radar reflector.
10660 E 2142.5	-Mar Grande, close SW. Secca della Sirena.	40° 27.7' N 17° 13.0' E	Q.G.	20 6	7	STARBOARD (A) G, beacon, topmark.	Private light. Radar reflector.
10664 E 2142.6	-Detached breakwater, SE. head.	40° 27.9' N 17° 12.7' E	Q.R.	33 10	4	Red post; 26.	Private light.
10672 E 2143	-Pontile Chiapparo, W. extremity.	40° 26.3' N 17° 14.6' E	Fl.G. period 3s fl. 1s, ec. 2s	26 8	3	Green post; 19.	Private light.
10676 E 2143.2	--N. extremity.	40° 26.4' N 17° 14.7' E	Fl.Y. period 2s fl. 0.5s, ec. 1.5s	26 8	3	Yellow post; 19.	Private light.
10677 E 2144	--Jetty, head.	40° 26.8' N 17° 14.8' E	Fl.R. period 3s fl. 1s, ec. 2s	26 8	3	Red column on pedestal.	Private light.
-Passagio Piccolo:							
10680 E 2150	--Mar Grande Range, Secca della Tarantola, front.	40° 26.8' N 17° 13.8' E	Fl.W.G. period 3s fl. 1s, ec. 2s	39 12	W. 9 G. 7	Green round tower; 36.	G. 057°-187°30', W. (over range line)-198°30', G.- 025°, obsc.-057°. Safety distance 150m.
10684 E 2150.1	---Rear, near Casa Gigante, about 3 km. 193° from front.	40° 25.4' N 17° 13.2' E	Iso.W. period 3s	69 21	14	White tower, black stripes; 66.	Visible 189°36'-196°24'. F.R. on masthead. Reserve light range 10M.
10688 E 2152	--Mar Piccolo, N. Range, front.	40° 29.2' N 17° 14.5' E	Q.R.	39 12	6	Pyramidal structure, black and white stripes; 33.	
10689 E 2152.1	---Rear, 013° from front, near Casa Troilo.	40° 30.0' N 17° 15.0' E	Fl.W. period 3s fl. 1s, ec. 2s	66 20	8	White tower, black stripes; 33.	
10690 E 2158.6	--Fanale.	40° 29.7' N 17° 15.9' E	Fl.Y. period 3s fl. 1s, ec. 2s	43 13	3	Platform; 43.	Private light.
10694 E 2158.4	--Water intake.	40° 29.4' N 17° 14.3' E	F.Y.	33 10	3	Yellow post.	A F.Y. light is shown at head of 3 structures. Private light.
10696 E 2153	--Canale Navigabile.	40° 28.3' N 17° 14.2' E	F.R.	26 8	4	Lantern on wall.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ITALY-SOUTHEAST COAST							
10700 E 2145	--Commercial port, W. mole, head.	40° 28.5' N 17° 13.3' E	Fl.R. period 5s fl. 1s, ec. 4s	33 10	4	Red post; 26.	Private light.
10702 E 2145.2	---W. side.	40° 28.5' N 17° 13.2' E	F.G.	33 10	4	Green post; 23.	Private light.
10704 E 2146	---E. mole, head.	40° 28.5' N 17° 13.5' E	Fl.G. period 5s fl. 1s, ec. 4s	39 12	8	Green column on pedestal with hut; 33.	Private light.
-Porto Industriale:							
10708 E 2144.4	--Italsider, pier 2, SE. corner, head.	40° 28.4' N 17° 13.0' E	2 F.R.G. (vert.)	33 10 29 9	5	Red and green banded post; 20.	2 F.G.R. (vert.) shown from SW. corner. Private light.
10712 E 2144.43	---Pier 3, SE. corner, head.	40° 28.4' N 17° 12.7' E	2 F.R.G. (vert.)	33 10 29 9	3	Red post, green bands; 20.	Private light.
10716 E 2144.44	---SW. corner, head.	40° 28.4' N 17° 12.6' E	2 F.R.G. (vert.)	30 9 33 10	3	Green post, red bands; 20.	Private light.
10718 E 2144.47	---Pier 4 Range, front.	40° 28.7' N 17° 12.3' E	Q.R.	66 20	6	Post, white rectangular daymark, black stripe; 59.	Occasional. Private light.
10719 E 2144.48	----Rear, 690 meters 341° from front.	40° 29.1' N 17° 12.1' E	Oc.W. period 3s fl. 1s, ec. 2s	137 42	20	Post, white rectangular daymark, black stripe; 69.	Occasional. Private light.
10720 E 2144.45	---Pier 4, SE. corner, head.	40° 28.4' N 17° 12.4' E	2 F.R.G. (vert.)	33 10 29 9	3	Green post, red bands; 20.	Private light.
10722 E 2142.8	--Pontile AGIP, 150 meters SSE from breakwater, head.	40° 28.2' N 17° 11.7' E	Fl.Y. period 2s fl. 0.5s, ec. 1.5s	33 10	3	Yellow post; 20.	Marks fixed mooring caisson. Private light.
10724 E 2144.5	--E. breakwater, E. head.	40° 28.2' N 17° 13.2' E	Fl.R. period 5s fl. 1s, ec. 4s	39 12	6	Red column on pedestal with hut; 30.	Private light.
-Punta Rondinella:							
10728 E 2162	--Detached breakwater, N. head.	40° 29.0' N 17° 08.0' E	Fl.G. period 5s fl. 1s, ec. 4s	46 14	8	Green pole; 20.	Private light. Punta Rondinella Passage marked by Fl.R. 3s, Fl.G. 3s 1.35 miles ESE.
10732 E 2162.2	---S. head.	40° 28.9' N 17° 08.8' E	Q.R. period 1s	47 14	4	Red post; 20.	Harbor approach marked by articulated beacons Q.(6)+L.Fl.W. 15s 2.8 miles SSW., Q.(9)W. 15s 2.4 miles SW., 2.5 miles WSW., 1.5 miles W. Private light.
10736 E 2162.4	--Lee mole, head.	40° 29.7' N 17° 08.8' E	Fl.R. period 5s fl. 1s, ec. 4s	47 14	8	Red post; 20.	Articulated beacons Q.Y. 5M 650 meters 315°, Q.Y. 6M 840 meters 167°, Q.G. 3M 620 meters 114° from light. Private light.
10740 E 2162.6	--Passaggi scogliera Punta Rondinella, N. side.	40° 29.7' N 17° 09.3' E	F.G.	33 10	3	Green post; 20.	Private light.
10744 E 2142.92	--W. side.	40° 28.0' N 17° 10.0' E	Q.G.	33 10	3	Green post; 26.	Private light.
10748 E 2142.9	--breakwater, E. side.	40° 28.0' N 17° 10.0' E	Q.R.	33 10	3	Red post; 26.	Private light.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ITALY-SOUTHEAST COAST							
10752 E 2164	Porto Cesareo, entrance Range, front.	40° 15.5' N 17° 54.2' E	Iso.W. period 2s	42 13	7	Framework tower on black and white checkered hut; 39.	Visible 350°-068°. Private light.
10756 E 2164.1	-Rear, 765 meters 034° from front.	40° 16.0' N 17° 54.2' E	Oc.W. period 3s lt. 2s, ec. 1s	87 27	11	Black and white checkered tower; 49.	Private light.
GALLIPOLI:							
10760 E 2168	-Isola Sant' Andrea.	40° 02.8' N 17° 56.7' E	Fl.(2)W. period 10s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 7.3s	148 45	19	White tower on two-story dwelling; 141.	Reserve light range 15M.
10764 E 2172	-Molo di Tramontana.	40° 03.6' N 17° 59.0' E	Fl.G. period 5s fl. 1s, ec. 4s	36 11	9	Green round tower; 29.	Safety distance 70m.
10765 E 2172.2	--Molo di Sottoflutto.	40° 03.5' N 17° 59.0' E	Fl.R. period 5s fl. 1s, ec. 4s	36 11	9	Red round tower; 29.	Safety distance 50m.
10768 E 2170	-Secca del Rafo.	40° 03.8' N 17° 58.6' E	Q.W.	16 5	5	N. CARDINAL BY, articulated beacon, topmark.	Radar reflector.
10772 E 2173	-Seno del Canneto, breakwater, head.	40° 03.1' N 17° 58.8' E	F.R.	23 7	6	Red post; 16.	F.G. shown on mole.
10776 E 2174	Torre San Giovanni.	39° 53.2' N 18° 06.8' E	Iso.W.R. period 4s	79 24	W. 15 R. 11	Black and white checkered tower; 72.	R. 311°-013°, W.-133°. Reserve light range W. 11M, R. 9M.
10778 E 2174.4	-Secche di Ugento.	39° 49.8' N 18° 07.7' E	Q.(9)W. period 15s	19 6	5	W. CARDINAL YBY, beacon, topmark.	Radar reflector.
10780 E 2176	Capo Santa Maria di Leuca.	39° 47.7' N 18° 22.1' E	Fl.(3)W. period 15s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 8.5s	334 102	24	White tower on two-story building; 157.	Reserve light range 18M. Aeromarine. Visible 220°-068°.
			Oc.R. period 4s lt. 3s, ec. 1s	328 100	11	On terrace.	Visible 094°-106°. Reserve light range 9M.
10784 E 2177	Tricase, outer mole, head.	39° 55.9' N 18° 23.8' E	Iso.G. period 2s	33 10	4	Green post; 20.	
10786 E 2177.5	Castro, outer mole, head.	40° 00.0' N 18° 25.7' E	Fl.R. period 3s fl. 1s, ec. 2s	20 6	7	Red post; 16.	Private light.
ITALY-EAST COAST							
10788 E 2178	Capo d'Otranto.	40° 06.4' N 18° 31.2' E	Fl.W. period 5s fl. 1s, ec. 4s	197 60	18	White round tower on two-story rectangular structure; 105.	Reserve light range 12M.
10792 E 2182	Otranto, Punta Craul, N. of port.	40° 09.2' N 18° 29.6' E	Fl.(3)W.R. period 10s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	39 12	W. 13 R. 8	White column on round tower; 30.	R. 165°-183°, W.-165°. Reserve light range W. 11M, R. 7M.
10796 E 2186	-Punta San Nicola, mole, head.	40° 08.9' N 18° 29.7' E	Fl.R. period 3s fl. 1s, ec. 2s	36 11	8	Red column on pedestal; 20.	Safety distance 60m.
10800 E 2188	Torre Sant' Andrea.	40° 15.3' N 18° 26.7' E	Fl.(2)W.R. period 7s fl. 1s, ec. 1s fl. 1s, ec. 4s	79 24	W. 15 R. 12	Black and white checkered tower; 52.	R. 300°-343°, W.-300°. Reserve light range W. 11M, R. 8M.
10804 E 2190	San Foca di Melendugno.	40° 18.3' N 18° 24.3' E	F.G.	18 5	3	Green mast.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ITALY-EAST COAST							
10808 E 2192	Punta San Cataldo di Lecce.	40° 23.4' N 18° 18.5' E	L.FI.W. period 5s fl. 2s, ec. 3s	82 25	16	White tower on building; 75.	Visible 140°-315°. Reserve light range 12M.
BRINDISI:							
10812 E 2194	-Cape Cavallo.	40° 39.7' N 18° 02.3' E	Q.(3)W. period 10s	16 5	5	E. CARDINAL BYB, articulated beacon.	Radar reflector.
10816 E 2196	-Le Pedagne, on Isolotto Traverso, E. side.	40° 39.5' N 17° 59.4' E	Fl.(2)R. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	69 21	8	White round tower on white round dwelling.	Visible 349°-252°.
10822 E 2208	-Brindisi-Casale AVIATION LIGHT.	40° 39.1' N 17° 56.6' E	Al.FI.W.G. period 17s W. fl. 1s, ec. 3s G. fl. 1s, ec. 3s W. fl. 1s, ec. 8s	59 18	W. 24 G. 18	Tower; 33.	Private light.
10822.5 E 2198	-Main breakwater, head.	40° 39.7' N 17° 59.8' E	Fl.(2)G. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	40 12	5	Green pole.	Private light.
10823.5 E 2202	-Forte a Mare.	40° 39.3' N 17° 58.1' 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	92 28	21	Balcony on castle; 82.	Reserve light Fl.(4)W. 20s 18M.
10824 E 2204	--S., N. breakwater, head.	40° 39.2' N 17° 58.1' E	FI.G. period 3s fl. 0.5s, ec. 2.5s	36 11	8	Green round tower; 29.	
10828 E 2203.5	-Diga di Costa Morena, N. breakwater, head.	40° 39.0' N 17° 58.2' E	F.R.	23 7	5	Red post.	
10830 E 2203	-Molo Montecatini Edison, head.	40° 38.9' N 17° 58.9' E	2 F.R. (vert.)	36 11 33 10	5	Red post; 16.	Private light.
-Canale Pigionati:							
10832 E 2212	--Inner harbor entrance, E. side.	40° 38.7' N 17° 57.2' E	Iso.R. period 2s	30 9	5	Red column on hut; 20.	
10836 E 2210	---W. side.	40° 38.7' N 17° 57.1' E	Iso.G. period 2s	30 9	5	Green column on hut; 20.	
10840 E 2216	--Inner end of entrance to canal, on E. side.	40° 38.6' N 17° 57.1' E	F.R.	33 10	4	Red post; 26.	Visible 018°-227°.
10844 E 2214	---On W. side.	40° 38.6' N 17° 57.0' E	FG.	33 10	4	Green post; 26.	Visible 227°-070°.
10848 E 2217	--Galleggianti, E. pier, head.	40° 38.4' N 17° 56.3' E	F.R.	26 8	2	Post; 23.	
10852 E 2217.5	---W. pier, head.	40° 38.5' N 17° 56.2' E	F.R.	26 8	2	Post; 23.	
10856 E 2222	Torre Canne.	40° 50.4' N 17° 28.2' E	Fl.(2)W. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	115 35	16	White octagonal masonry tower, dwelling; 104.	Reserve light range 12M.
10860 E 2223	Savelletri.	40° 52.4' N 17° 24.8' E	FI.G. period 5s fl. 1.5s, ec. 3.5s	26 8	3	White column on hut, black bands; 23.	
10864 E 2223.4	-S. mole, head.	40° 52.3' N 17° 24.7' E	F.R.	26 8	3	White and red banded post; 20.	
10868 E 2224	Monopoli, Molo Margherita, head.	40° 57.4' N 17° 18.4' E	FI.R. period 3s fl. 1s, ec. 2s	48 15	8	Round tower, red and white bands; 49.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ITALY-EAST COAST							
10872 <i>E 2226</i>	-N. mole, head.	40° 57.4' N 17° 18.4' E	FI.G. period 3s fl. 1s, ec. 2s	43 13	8	Green metal framework tower on hut; 33.	
10876 <i>E 2228</i>	Mola di Bari, breakwater, head.	41° 03.6' N 17° 06.0' E	FI.G. period 3s fl. 0.5s, ec. 2.5s	46 14	7	Green tower on white hut; 36.	Safety distance 35m.
10880 <i>E 2228.5</i>	-E. mole, head.	41° 03.7' N 17° 06.1' E	FI.R. period 3s fl. 0.5s, ec. 2.5s	46 14	8	Red column on pedestal; 20.	
10884 <i>E 2230</i>	Cala Portecchia, outer mole, head.	41° 03.8' N 17° 05.3' E	FI.R.	26 8	5	Red post; 20.	
10886 <i>E 2230.4</i>	-N. mole, head.	41° 03.8' N 17° 05.3' E	FI.G.	26 8	5	Green post; 20.	
10888 <i>E 2231</i>	Torra Mare (Torre Pelosa).	41° 05.4' N 16° 59.8' E	FI.R.	31 9	3	Red post; 26.	F.G. shown from inner breakwater. Private light.
10892 <i>E 2232</i>	Punta San Cataldo.	41° 08.3' N 16° 50.7' E	FI.(3)W. period 20s fl. 0.2s, ec. 3.8s fl. 0.2s, ec. 3.8s fl. 0.2s, ec. 11.8s	218 66	24	White tower, two-story dwelling; 203.	Oc.R. shown about 0.7 km. WSW. Reserve light range 18M.
10896 <i>E 2233</i>	Nuovo Molo Foraneo, 5th arm, head.	41° 08.9' N 16° 50.9' E	FI.R. period 3s fl. 1s, ec. 2s	39 12	7	Red column on pedestal; 20.	
10900 <i>E 2236</i>	Nuovo Molo Foraneo, 3rd arm, head.	41° 08.6' N 16° 51.3' E	FI.R. period 5s fl. 1s, ec. 4s	16 5	4	Red column on pedestal; 13.	Visible 273°-129°.
10904 <i>E 2241</i>	-Inner spur, head.	41° 08.5' N 16° 52.0' E	FI.R. period 5s fl. 1s, ec. 4s	23 7	3	Red post; 16.	
10908 <i>E 2234</i>	Molo San Cataldo, head.	41° 08.2' N 16° 50.9' E	FI.G. period 3s fl. 1s, ec. 2s	36 11	7	Green metal tower on square base; 26.	
10916 <i>E 2240</i>	Molo di Ridosso, head.	41° 08.4' N 16° 52.0' E	FI.G. period 5s fl. 1s, ec. 4s	26 8	3	Green post; 20.	
10920 <i>E 2238</i>	Vecchio Molo Foraneo, head.	41° 08.2' N 16° 51.7' E	FI.R.	36 11	4	Red post; 13.	
10924 <i>E 2243</i>	Molo S. Vito, head.	41° 08.0' N 16° 52.0' E	FI.Y. period 2s fl. 0.5s, ec. 1.5s	26 8	3	Yellow post; 20.	
10928 <i>E 2242</i>	Molo Pizzoli, head.	41° 08.0' N 16° 51.7' E	FI.G.	36 11	4	Green post; 13.	
10932 <i>E 2244</i>	Molo San Antonio.	41° 07.6' N 16° 52.8' E	FI.G. period 5s fl. 1s, ec. 4s	56 17	9	White round tower, green bands; 46.	Visible 190°-130°.
10936 <i>E 2246</i>	Santo Spirito, entrance, N. side.	41° 10.0' N 16° 45.1' E	2 FI.G. (vert.)	33 10 26 8	3	Green post; 26.	Private light.
10940 <i>E 2246.2</i>	-Entrance, S. side.	41° 10.0' N 16° 45.3' E	2 FI.R. (vert.)	33 10 26 8	3	Red post; 26.	Private light.
10944 <i>E 2247</i>	Giovinazzo, W. breakwater.	41° 11.4' N 16° 40.4' E	FI.G.	26 8	4	Green post; 20.	Private light.
10948 <i>E 2247.3</i>	-E. breakwater.	41° 11.5' N 16° 40.4' E	FI.R.	26 8	4	Red post; 20.	Private light.
10952 <i>E 2248</i>	Molfetta.	41° 12.5' N 16° 35.6' E	Iso.W. period 6s	72 22	16	White polygonal tower on dwelling; 59.	Reserve light range 12M.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ITALY-EAST COAST							
10956 <i>E 2252</i>	-Molo Foraneo, head.	41° 12.7' N 16° 35.5' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	39 12	7	Red round tower; 33.	Safety distance 30m.
10960 <i>E 2250</i>	-Detached breakwater, head.	41° 12.8' N 16° 35.6' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	43 13	7	Green column on pedestal; 20.	Safety distance 30m.
10964 <i>E 2254</i>	-Molo Pennello, head.	41° 12.4' N 16° 35.4' E	F.G.	16 5	4	Pylon on green hut; 10.	
10968 <i>E 2258</i>	Bisceglie, W. mole, head.	41° 14.7' N 16° 30.4' E	Fl.R. period 3s fl. 1s, ec. 2s	33 10	8	Red tower; 20.	Private light.
TRANI:							
10972 <i>E 2261</i>	-Molo San Antonio, 20 meters from head of extension.	41° 16.9' N 16° 25.3' E	L.Fl.R. period 5s fl. 2s, ec. 3s	33 10	8	Tower; 26.	
10976 <i>E 2260</i>	-Molo San Antonio, head.	41° 16.9' N 16° 25.3' E	Fl.W. period 5s fl. 1s, ec. 4s	31 9	14	Round tower; 16.	Reserve light range 11M.
10980 <i>E 2262</i>	-Braccio di San Nicola.	41° 16.9' N 16° 25.2' E	L.Fl.G. period 5s fl. 2s, ec. 3s	33 10	8	Tower; 26.	
BARLETTA:							
10984 <i>E 2264</i>	-Molo di Tramontana.	41° 19.8' N 16° 17.4' E	L.Fl.(2)W. period 12s fl. 2s, ec. 2s fl. 2s, ec. 6s	118 36	17	Octagonal tower; 102.	Reserve light range 12M.
10988 <i>E 2266</i>	--At head.	41° 19.8' N 16° 17.5' E	Fl.G. period 4s fl. 1s, ec. 3s	39 12	8	Green column on pedestal; 23.	Visible 160°-080°. F.G. marks head of breakwater 280 meters NNW.
10992 <i>E 2263.5</i>	-Church.	41° 19.0' N 16° 16.5' E	F.W.		10	Cupola of church.	
10996 <i>E 2268</i>	-Diga di Levante, head.	41° 20.0' N 16° 17.7' E	Fl.R. period 4s fl. 1s, ec. 3s	39 12	8	Red column on pedestal; 20.	
11000 <i>E 2274.4</i>	Margherita de Savoia, outer mole, head.	41° 23.4' N 16° 08.2' E	Fl.R. period 5s fl. 1s, ec. 4s	26 8	4	Red post; 20.	Private light.
11004 <i>E 2274.6</i>	-Inner mole, head.	41° 23.3' N 16° 07.9' E	Fl.G. period 5s fl. 1s, ec. 4s	26 8	4	Green post; 20.	Private light.
11008 <i>E 2275</i>	Foce Aloisa, pier, head.	41° 25.9' N 16° 00.7' E	Fr.R.	52 16	3	Red post on white hut.	Private light.
11012 <i>E 2276</i>	Manfredonia.	41° 37.7' N 15° 55.4' E	Fl.W. period 5s fl. 0.2s, ec. 4.8s	66 20	23	Tower on two-story dwelling; 59.	Reserve light range 18M. May be lost in background lights at 11 miles or less.
11016 <i>E 2277</i>	-Molo di Levante, head.	41° 37.2' N 15° 55.5' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	46 14	7	White round tower, green bands, green triangular topmark, point up; 39.	
11020 <i>E 2278</i>	-Molo di Mezzogiorno, head.	41° 37.3' N 15° 55.3' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	39 12	7	White round tower, red bands, red square daymark; 33.	
11024 <i>E 2281</i>	-Industrial Port, outer mole, head.	41° 36.7' N 15° 57.0' E	Oc.G. period 3s lt. 2s, ec. 1s	33 10	7	Green column on pedestal; 16.	Private light.

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ITALY-EAST COAST							
11028 <i>E 2282</i>	--Inner mole, head.	41° 37.0' N 15° 56.9' E	Oc.R. period 3s fl. 2s, ec. 1s	33 10	7	Red column on pedestal; 16.	Private light.
11032 <i>E 2284</i>	Mattinata, on Punta Agnuli.	41° 42.6' N 16° 04.8' E	F.G.	26 8	3	Green mast; 19.	Private light.
11036 <i>E 2286</i>	Torre Proposti.	41° 46.9' N 16° 11.5' E	Fl.W. period 5s fl. 1s, ec. 4s	203 62	15	Red tower on white house; 72.	Visible 186°-020°.
11040 <i>E 2288</i>	Vieste.	41° 53.3' N 16° 11.1' E	Fl.(3)W. period 15s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 8.8s	131 40	25	Stone tower on two-story dwelling; 89.	Visible 124°-348°. Reserve light range 18M.
11044 <i>E 2288.4</i>	-Cala San Lorenzo, head.	41° 53.2' N 16° 10.7' E	2 F.R. (vert.)	23 7	3	Red and white banded pole; 16.	
11052 <i>E 3586</i>	Otok Palagruza (Cr.).	42° 23.5' N 16° 15.6' E	Fl.W. period 17.5s fl. 0.8s, ec. 16.7s	361 110	26	Stone tower on dwelling; 72.	Reserve light range 12M.
11056 <i>E 3588</i>	-Near main light (Cr.).	42° 23.0' N 16° 15.0' E	Iso.R. period 2s	315 96	5	White column; 26.	Visible 264°-304°, over Hridi Gaiola.
11060 <i>E 2300</i>	Isola Pianosa.	42° 13.5' N 15° 44.8' E	Fl.(2)W. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	82 25	10	White tower, 56.	
ISOLE DI TREMITI:							
11064 <i>E 2296</i>	-Isola Caprara.	42° 08.0' N 15° 31.0' E	Fl.W. period 5s fl. 1s, ec. 4s	75 23	8	White metal framework tower; 33.	Visible 110°-020°.
11068 <i>E 2298</i>	-Isola San Nicola, Tremiti, mole, head.	42° 07.1' N 15° 30.1' E	2 F.G. (vert.)	30 9	3	Green column on pedestal; 23.	
11072 <i>E 2297</i>	-Isola San Nicola.	42° 07.4' N 15° 30.6' E	Fl.(4)W. period 15s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 8s	279 85	14	White metal framework tower, red bands; 49.	Reserve light range 7M.
11076 <i>E 2294</i>	-Punta del Diavolo, Isola San Domino, SW. head.	42° 06.4' N 15° 28.6' E	Fl.(3)W. period 10s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	157 48	11	White tower on two-story white dwelling; 52.	Visible 300°-175°.
TERMOLI:							
11080 <i>E 2303</i>	-Termoli.	42° 00.1' N 14° 59.8' E	Fl.(2)W. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	135 41	15	White quadripod; 56.	Reserve light range 11M.
11084 <i>E 2304</i>	-Molo Nord, outer head.	42° 00.1' N 15° 00.3' E	Fl.G. period 3s fl. 1s, ec. 2s	36 11	8	Green pillar on pedestal; 33.	
11088 <i>E 2304.2</i>	--Inner head.	42° 00.2' N 15° 00.1' E	2 F.G. (vert.)	26 8 23 7	3	Green column.	Visible 290°-135°.
11092 <i>E 2305</i>	-Molo Sud, head.	42° 00.1' N 15° 00.1' E	Fl.R. period 3s fl. 1s, ec. 2s	30 9	5	Red column on platform.	
11100 <i>E 2306</i>	Punta della Penna.	42° 10.2' N 14° 42.9' E	Fl.W. period 5s fl. 0.2s, ec. 4.8s	277 84	25	Octagonal tower on two-story dwelling; 230.	Reserve light range 18M.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ITALY-EAST COAST							
11104 E 2307	-Porto Vasto, Molo di Levante, head.	42° 10.6' N 14° 42.7' E	Fl.R. period 3s fl. 1s, ec. 2s	29 9	4	Red column; 23.	
11108 E 2307.2	--Spur.	42° 10.4' N 14° 42.6' E	Fl.R. period 6s fl. 1s, ec. 5s	29 9	4	Red column; 20.	Obscured 203°-309°.
11112 E 2307.5	--Molo di Ponente, head.	42° 10.6' N 14° 42.6' E	Fl.G. period 3s fl. 1s, ec. 2s	29 9	7	Green column; 23.	
11120 E 2307.7	---Spur.	42° 10.6' N 14° 42.7' E	Fl.G. period 6s fl. 1s, ec. 5s	29 9	4	Green column; 20.	Obscured 015°-169°.
11124 E 2308	San Vito Chietino, pier, head.	42° 19.0' N 14° 27.0' E	FR.	26 8	1	Red post; 20.	Private light.
ORTONA:							
11128 E 2312	-Molo Nord.	42° 21.5' N 14° 24.5' E	Fl.(2)W. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	75 23	15	White octagonal tower on yellow dwelling, tower and N. side dwelling in black and white bands; 84.	Reserve light range 11M.
11132 E 2313	--Near head.	42° 21.0' N 14° 25.4' E	Fl.G. period 3s fl. 1s, ec. 2s	30 9	9	Green tower; 16.	
11136 E 2315	-Molo a Martello, E. corner, head.	42° 21.2' N 14° 24.9' E	FG.	26 8	3	Green column on pedestal; 20.	
11138 E 2315.1	-Mandracchio, head.	42° 21.4' N 14° 24.6' E	FR.				Private light.
11140 E 2314	-Molo Sud, head.	42° 20.9' N 14° 25.4' E	Fl.R. period 3s fl. 1s, ec. 2s	30 9	9	Red tower; 16.	
11142 E 2315.6	-Tower.	42° 28.0' N 14° 19.1' E	Oc.(2)Y. period 10s lt. 2s, ec. 1s lt. 6s, ec. 1s	66 20	5	On tower.	Nautophone: Mo.(R) ev. 45s.
PESCARA:							
11143 E 2317	-Detached breakwater, W. head.	42° 28.4' N 14° 13.6' E	Fl.(2)R. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	33 10	5	Red column; 20.	
11143.5 E 2317.2	--E. head.	42° 28.3' N 14° 14.1' E	Fl.(2)G. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	33 10	5	Green column; 20.	
11145 E 2316	-Marina, breakwater, head.	42° 27.9' N 14° 14.2' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	30 9	4	Green post.	Private light.
11146 E 2316.35	-Lighthouse.	42° 27.9' N 14° 14.0' E	Fl.(3)W. period 20s fl. 0.2s, ec. 3.8s fl. 0.2s, ec. 3.8s fl. 0.2s, ec. 11.8s	39 12	17	On white two-story building; 33.	
11151 E 2319	-Molo di Scirocco.	42° 28.1' N 14° 13.8' E	Fl.R. period 4s fl. 1s, ec. 3s	43 13	8	Red column on platform; 36.	Reserve light FR., 6 meters. Nautophone: Mo.(K) ev. 48s.
11152 E 2320	-Molo di Maestro.	42° 28.0' N 14° 13.0' E	Fl.G. period 4s fl. 1s, ec. 3s	43 13	8	Green column on platform; 36.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ITALY-EAST COAST							
GIULIANOVA:							
11156 <i>E 2324</i>	-Molo Sud, head.	42° 45.3' N 13° 58.9' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	26 8	4	Red column on platform; 23.	
11160 <i>E 2325</i>	--Second elbow.	42° 45.0' N 13° 39.0' E	F.R.		2		
11164 <i>E 2326</i>	-Molo Nord, head.	42° 45.2' N 13° 58.7' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	26 8	4	Green column on platform; 23.	Private.
11168 <i>E 2326.2</i>	--Spur, head.	42° 45.2' N 13° 58.6' E	F.G.		2		
11172 <i>E 2335</i>	Fiume Tronto, S. side.	42° 53.5' N 13° 55.5' E	2 F.R. (vert.)	39 12 34 10	3	Red mast; 26.	
11176 <i>E 2332</i>	San Benedetto del Tronto.	42° 57.1' N 13° 53.2' E	Fl.(2)W. period 10s fl. 0.2s, ec. 2s fl. 0.2s, ec. 7.6s	102 31	22	White round tower on white two-story dwelling; 102.	Obscured 225°-315°. Reserve light range 18M.
11180 <i>E 2333</i>	-N. mole, head.	42° 57.2' N 13° 53.2' E	Fl.G. period 3s fl. 1s, ec. 2s	26 8	8	Green column on platform; 23.	
11184 <i>E 2334</i>	-S. mole, head.	42° 57.2' N 13° 53.5' E	Fl.R. period 3s fl. 1s, ec. 2s	26 8	8	Red column on platform; 20.	Nautophone: Mo.(W) ev. 45s.
11188 <i>E 2336</i>	Pedaso , about 1 km. S. of village.	43° 05.2' N 13° 50.7' E	Fl.(3)W. period 15s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 8s	167 51	16	White tower on house; 69.	Reserve light range 12M.
11190 <i>E 2337</i>	Porto San Giorgio, outer mole.	43° 10.2' N 13° 48.8' E	Fl.(2)R. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	26 8	5	Red post; 20.	Nautophone: Mo.(U) ev. 45s. Private light.
11192 <i>E 2337.2</i>	-Inner mole.	43° 10.0' N 13° 48.8' E	Fl.(2)G. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	26 8	5	Green post; 20.	Private light.
11196 <i>E 2339</i>	Porto Civitanova, N. mole, head.	43° 18.8' N 13° 44.1' E	Fl.G. period 5s fl. 1s, ec. 4s	31 9	8	Green tower; 26.	
11200 <i>E 2338</i>	-E. mole, head.	43° 18.9' N 13° 44.1' E	Fl.R. period 5s fl. 1s, ec. 4s	33 10	8	Red metal column; 20.	Nautophone: (at root of mole) Mo.(R) ev. 30s.
11204 <i>E 2338.2</i>	--On spur, extending W. from head.	43° 18.7' N 13° 44.0' E	F.R.	23 7	4	Red post, 16.	
11208 <i>E 2337.6</i>	-Chiesa di Cristo Re.	43° 18.5' N 13° 43.7' E	Mo.(C)W. period 20s fl. 3s, ec. 1s fl. 1s, ec. 1s fl. 3s, ec. 1s fl. 1s, ec. 9s	138 42	11	Church tower; 151.	
ANCONA:							
11214 <i>E 2343</i>	-Scogliera I Travi.	43° 34.8' N 13° 34.6' E	Fl.Y. period 5s fl. 0.5s, ec. 4.5s	10 3	2	SPECIAL Y, beacon tower, topmark.	Private light.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ITALY-EAST COAST							
11216 <i>E 2344</i>	-Colle Cappuccini.	43° 37.3' N 13° 31.0' 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	387 118	25	White and gray banded tower; 49.	Obscured S. of bearing 306°. Obscured 120°-121°30'. Reserve light range 18M.
11220 <i>E 2349</i>	-Molo Foraneo Sud, NW. extension, head.	43° 37.3' N 13° 29.7' E	Fl.G. period 4s fl. 1s, ec. 3s	36 11	7	Green tower; 33.	
11224 <i>E 2346</i>	-Molo Foraneo Nord, head.	43° 37.5' N 13° 29.6' E	Fl.R. period 4s fl. 1s, ec. 3s	36 11	8	Red stone tower; 20.	Visible 277°-224°.
	-RACON		A(• -) period 30s		6		
11225 <i>E 2346.5</i>	-Detached Breakwater, S. Head.	43° 37.3' N 13° 29.1' E	Fl.(2)R. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	33 10	5	Red column on pedestal; 20.	
11226 <i>E 2346.7</i>	--N. head.	43° 37.7' N 13° 29.4' E	Fl.(2)G. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s		4		Private light.
11228 <i>E 2347</i>	-Molo Nord, spur, W. head.	43° 37.5' N 13° 29.9' E	FR.	23 7	3	Red post; 23.	
11232 <i>E 2348</i>	--E. end.	43° 37.4' N 13° 30.0' E	Fl.R. period 3s fl. 1s, ec. 2s	26 8	8	Red column on pedestal; 23.	
11236 <i>E 2350</i>	-Molo Sud.	43° 37.4' N 13° 29.9' E	Fl.G. period 3s fl. 1s, ec. 2s	36 11	8	Green column on pedestal; 23.	
11248 <i>E 2352</i>	-Naval shipyard breakwater, W. head.	43° 37.7' N 13° 29.9' E	Q.R.	23 7	4	Red post.	Private light.
11252 <i>E 2352.5</i>	--N. angle.	43° 37.8' N 13° 30.2' E	FR.	23 7	3	Red post.	Private light.
FALCONARA MARITTIMA:							
11256 <i>E 7471</i>	-Pipeline terminal AP 1.	43° 44.7' N 13° 31.3' E	Mo.(U)W. period 15s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 2s, ec. 10s		6	Revolving platform; 23.	Horn: Mo.(U) ev. 30s. Private light.
11260 <i>E 7470</i>	-Pipeline terminal.	43° 40.1' N 13° 24.4' E	Fl.Y. period 3s fl. 1s, ec. 2s	98 30	6	Platform; 98.	Horn: Mo(M) ev. 45s (bl. 5s, si. 2s, bl. 5s, si. 33s). Private light.
11264 <i>E 2354</i>	-Mole, head.	43° 38.8' N 13° 23.6' E	3 F.Y. (vert.)	33 10 26 8 23 7	2	SPECIAL Y, hut, topmark; 33.	Private light.
SENIGALLIA:							
11268 <i>E 2359</i>	-E. mole, head.	43° 43.3' N 13° 13.4' E	Fl.R. period 3s fl. 1s, ec. 2s	26 8	8	Red column on platform; 23.	Nauphone: Mo.(D) ev. 45s.
11272 <i>E 2360</i>	-W. mole, head.	43° 43.3' N 13° 13.3' E	Fl.G. period 3s fl. 1s, ec. 2s	26 8	8	Green column; 23.	
11276 <i>E 2358</i>	-Molo Di Levante.	43° 43.2' N 13° 13.3' E	L.Fl.(2)W. period 15s fl. 3s, ec. 2s fl. 3s, ec. 7s	57 17	15	White octagonal brick tower, black bands, dwelling; 56.	Reserve light range 11M.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ITALY-EAST COAST							
FANO:							
11280 <i>E 2362</i>	-Inner part of channel.	43° 51.0' N 13° 01.0' E	Fl.W. period 5s fl. 1s, ec. 4s	69 21	15	White square tower on two-story dwelling; 66.	Reserve lights Fl.W. 10M, F.W. 10M.
11284 <i>E 2364</i>	-E. mole, head.	43° 51.2' N 13° 01.1' E	Fl.R. period 3s fl. 1s, ec. 2s	29 9	8	Red column on platform; 23.	Nautophone: Mo.(G) ev. 48s.
11288 <i>E 2366</i>	-W. mole, head.	43° 51.2' N 13° 01.0' E	Fl.G. period 3s fl. 1s, ec. 2s	26 8	8	Green column on pedestal; 23.	
11292 <i>E 2368</i>	-Canal entrance, mole, outer head.	43° 51.1' N 13° 01.0' E	2 F.G.R. (vert.)	26 8 23 7	3	Lampost, red and green bands; 20.	
PESARO:							
11296 <i>E 2372</i>	-Monte di San Bartolo.	43° 55.3' N 12° 53.0' E	Fl.(2)W. period 15s fl. 0.2s, ec. 3.6s fl. 0.2s, ec. 11s	574 175	25	White tower on two-story dwelling; 82.	Obscured S. of bearing 125°. Reserve light range 18M.
11300 <i>E 2374</i>	-45 meters from E. mole, head.	43° 55.6' N 12° 54.6' E	Fl.R. period 5s fl. 1s, ec. 4s	26 8	8	Red column on pedestal; 23.	Horn: Mo.(S) ev. 45s. (bl. 2s, si. 2s, bl. 2s, si. 2s, bl. 2s, si. 35s).
11304 <i>E 2376</i>	-20 meters from W. mole, head.	43° 55.5' N 12° 54.5' E	Fl.G. period 5s fl. 1s, ec. 4s	26 8	8	Green column on pedestal; 23.	
11308 <i>E 2381</i>	Cattolica.	43° 58.2' N 12° 45.0' E	Mo.(O)W. period 14s fl. 2s, ec. 1s fl. 2s, ec. 1s fl. 2s, ec. 6s	56 17	15	White 4-sided structure, black bands; 56.	Reserve light range 11M.
11312 <i>E 2382</i>	-E. mole, head.	43° 58.0' N 12° 45.2' E	Fl.R. period 3s fl. 1s, ec. 2s	33 10	8	Red column on pedestal; 20.	
11316 <i>E 2384</i>	-W. mole, head.	43° 58.2' N 12° 45.1' E	Fl.G. period 3s fl. 1s, ec. 2s	33 10	8	Green column on pedestal; 20.	
11317 <i>E 2388</i>	Porto Verde.	43° 58.0' N 12° 44.0' E	Iso.R. period 2s		3		Private light.
11318 <i>E 2388.2</i>	-Mole, head.	43° 58.3' N 12° 43.1' E	Iso.G. period 2s		3		Private light.
11320 <i>E 2390</i>	Riccione, E. mole, head.	44° 00.0' N 12° 39.0' E	Fl.R. period 3s fl. 1s, ec. 2s	33 10	5	Red support.	Horn: Mo.(M) ev. 45s. Private light.
11324 <i>E 2394</i>	Rimini.	44° 04.0' N 12° 35.0' E	Fl.(3)W. period 12s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 5s	89 27	15	White square brick tower; 82.	Visible 160°-280°. Reserve light range 11M. Obscured 269°-272° out to 2-7M.
11328 <i>E 2396</i>	-E. mole, head.	44° 04.9' N 12° 34.6' E	Fl.(2)Y. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	26 8	3	Yellow column on pedestal.	
11332 <i>E 2397</i>	-W. mole, head.	44° 04.7' N 12° 34.5' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	23 7	8	Green column on pedestal; 20.	
11336 <i>E 2393</i>	-AVIATION LIGHT.	44° 01.0' N 12° 37.0' E	Al.FI.W.G.				Occasional. Private light.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ITALY-EAST COAST							
CESENATICO:							
11340 E 2404	-Cesenatico.	44° 12.4' N 12° 24.1' E	Fl.(2)W. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	59 18	15	White round tower; 56.	Reserve light range 11M.
11344 E 2405	-E. mole, head.	44° 12.5' N 12° 24.4' E	Fl.R. period 5s fl. 1s, ec. 4s	26 8	8	Red column on pedestal; 20.	Fl.Y. 5m 4M signals the opening and closing of the Porte Vinciane. Horn: Mo.(R) ev. 45s (bl. 2s, si. 2s, bl. 4s, si. 2s, bl. 2s, si. 33s).
11348 E 2406	-W. mole, head.	44° 12.5' N 12° 24.3' E	Fl.G. period 5s fl. 1s, ec. 4s	26 8	8	Green column on pedestal; 20.	Fl.Y. 5m 4M signals the opening and closing of the Porte Vinciane.
11352 E 2411	Cervia.	44° 15.9' N 12° 21.2' E	Iso.W. period 2s	54 16	11	Polygonal tower; 52.	Obscured outside of channel by high buildings. Private light.
11356 E 2413	-N. mole, head.	44° 16.2' N 12° 21.5' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	26 8	4	Green post; 23.	Private light.
11360 E 2412	-S. mole, head.	44° 16.1' N 12° 21.2' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	26 8	4	Red column on pedestal; 23.	Horn: Mo.(U) ev. 45s (bl. 2s, si. 2s, bl. 2s, si. 2s, bl. 4s, si. 33s). Private light.
ITALY-NORTHEAST COAST							
PORTO CORSINI (MARINA DI RAVENNA):							
11368 E 7520	-AGIP 1.	44° 28.4' N 12° 21.3' E	Fl.(2)W. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	33 10	8	White post, red bands; 52.	Horn: Mo.(O) ev. 45s (bl. 5s, si. 2s, bl. 5s, si. 2s, bl. 5s, si. 26s). Private light.
11374 E 7522	-AGIP 4.	44° 27.5' N 12° 31.3' E	Mo.(U)W. period 15s		6	White revolving platform, red stripes; 20.	Horn: Mo.(U) ev. 30s. Private light.
	-RACON		U(• • -)				
11376 E 2418	-Corsini.	44° 29.5' N 12° 17.1' E	Fl.W. period 5s fl. 0.2s, ec. 4.8s	115 35	20	White tower on three-story dwelling; 108.	Reserve light range 18M. Traffic signals. Current signals.
11380 E 2417.8	-Approach beacon.	44° 30.0' N 12° 20.8' E	Fl.W. period 10s fl. 1s, ec. 9s	16 5	6	SAFE WATER RW, articulated beacon, topmark.	Radar reflector.
11384 E 2419	-S. breakwater, head.	44° 29.6' N 12° 18.8' E	Fl.(2)R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	33 10	8	Red column on pedestal; 26.	Horn: Mo.(O) ev. 48s (bl. 4s, si. 2s, bl. 4s, si. 2s, bl. 4s, si. 32s).
11388 E 2420	-N. breakwater, head.	44° 29.8' N 12° 18.8' E	Fl.(2)G. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	33 10	8	Green column on pedestal; 26.	
11392 E 2421	-S. mole, head.	44° 29.5' N 12° 17.5' E	Fl.R. period 4s fl. 1.5s, ec. 2.5s	24 7	8	Red column on pedestal; 20.	Horn: Mo.(H) ev. 45s (bl. 2s, si. 2s, bl. 2s, si. 2s, bl. 2s, si. 2s, bl. 2s, si. 31s).
11396 E 2422	-N. mole, head.	44° 29.6' N 12° 17.4' E	Fl.G. period 4s fl. 1.5s, ec. 2.5s	24 7	8	Green column on pedestal; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ITALY-NORTHEAST COAST							
PORTO GARIBALDI:							
11400 E 2426	-Molo Nord, near root.	44° 40.5' N 12° 14.8' E	Fl.(4)W. period 15s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 5s	46 14	15	White round tower on two-story dwelling; 39.	Reserve light range 11M.
11404 E 2428	--Near head.	44° 40.6' N 12° 15.0' E	Fl.G. period 5s fl. 1s, ec. 4s	30 9	8	Green column on pedestal; 23.	Horn: Mo.(G) ev. 48s (bl. 4s, si. 2s, bl. 4s, si. 2s, bl. 2s, si. 34s).
11408 E 2430	-Molo Sud, head.	44° 40.5' N 12° 15.0' E	Fl.R. period 5s fl. 1s, ec. 4s	30 9	8	Red column on pedestal; 23.	
11420 E 2433	--Entrance, E. side.	44° 50.6' N 12° 18.3' E	Fl.G. period 3s fl. 1s, ec. 2s	26 8	6	Green post.	Private light.
11424 E 2432	---W. side.	44° 47.0' N 12° 14.0' E	Fl.R. period 3s fl. 1s, ec. 2s	26 8	6	Red post.	Private light.
11428 E 2434	-Porto di Goro.	44° 47.4' N 12° 23.9' E	Fl.(2)W. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	72 22	17	White tower; 79.	Reserve light range 13M.
11436 E 2440	-Punta della Maestra.	44° 58.1' N 12° 31.8' E	Fl.(3)W. period 20s fl. 0.2s, ec. 3.8s fl. 0.2s, ec. 3.8s fl. 0.2s, ec. 11.8s	154 47	25	White round tower; 148.	Aeromarine light. Reserve light range 18M.
	-RACON		P(• - - •) period 30s		6		
11438 E 2441	-Beacon, 2.5 miles ESE of Punta della Maestra.	44° 57.8' N 12° 35.2' E	Q.(3)W. period 10s	13 4	6	E. CARDINAL BYB, articulated beacon, topmark.	Radar reflector.
11448 E 2443	-Porto Levante, NW. of entrance range.	45° 04.1' N 12° 20.7' E	L.Fl.W. period 6s fl. 2s, ec. 4s	180 55	15	Water tower; 171.	Visible 200°-290°. Reserve light range 12M.
11449 E 2443.3	--E. of Porto Levante.	45° 04.6' N 12° 23.4' E	Iso.Y. period 2s	16 5	6	SPECIAL Y, articulated beacon, topmark.	Private light.
11451 E 2444.7	--Off shore, E.	45° 05.2' N 12° 35.5' E	Fl.(5)Y. period 20s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 11s	20 6	5	Yellow beacon.	Private light.
CHIOGGIA:							
11452 E 2450	-Forte San Felice.	45° 13.8' N 12° 17.9' E	L.Fl.(2)W. period 10s fl. 2s, ec. 2s fl. 2s, ec. 4s	66 20	15	White tower; 59.	Reserve light range 11M.
11456 E 2451	--120 meters NNW. on NW. extremity of fort.	43° 13.8' N 12° 17.4' E	Fl.(2)R. period 7s fl. 1s, ec. 1s fl. 1s, ec. 4s	19 6	8	Red pedestal; 13.	Nautophone: Mo.(N) ev. 30s.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ITALY-NORTHEAST COAST							
11460 E 2452	-N. breakwater, head.	45° 14.0' N 12° 18.9' E	Fl.G. period 3s fl. 1s, ec. 2s	36 11	8	Green column on pedestal; 26.	Visible 342°-302°. Nautophone: Mo.(K) ev. 45s.
			F.G.	20 6	6		Visible 302°-342°.
	-RACON		K(- • -) period 30s		6		
11464 E 2453	-S. breakwater, head.	45° 13.7' N 12° 18.8' E	Fl.(2)R. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	36 11	8	Red column on pedestal; 26.	Visible 313°-257°.
			F.R.	20 6	6		Visible 257°-313°.
11468 E 2456	-N. breakwater, root.	45° 14.0' N 12° 17.0' E	Fl.(2)G. period 7s fl. 1s, ec. 1s fl. 1s, ec. 4s	31 9	8	Green column on pedestal; 23.	
11476 E 2458	-Canale San Domenico.	45° 13.4' N 12° 17.1' E	F.R.	30 9	3	Red post; 26.	
11480 E 2462	Oceanographic platform.	45° 18.8' N 12° 30.8' E	Mo.(U)W. period 15s		8	Platform.	Nautophone: Mo.(U) 30s. (bl. 1s, si. 2s, bl. 1s, si. 2s, bl. 2s, si. 22s). Private light.
11484 E 2465	Malamocco Approach Beacon.	45° 19.4' N 12° 23.1' E	Fl.W. period 10s fl. 1s, ec. 9s	23 7	6	SAFE WATER RW, articulated beacon, topmark; 20.	Channel marked by articulated beacons. Radar reflector.
11488 E 2464	-Rocchetta.	45° 20.3' N 12° 18.7' E	Fl.(3)W. period 12s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 5s	82 25	16	White tower, black stripe.	Reserve light range 11M.
11490 E 2463	-Fort Rocchetta. pilot tower.	45° 20.4' N 12° 18.7' E	Dir.F.W.R.G.	98 30	6	White tower; 115.	G. 285°-287°, W-288°, R.- 290°, obsc.-285°.
11492 E 2464.4	-Beacon.	45° 20.3' N 12° 18.8' E	Fl.(3)G. period 10s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	20 6	7	Green hut on platform.	Horn: Mo.(D) ev. 45s (bl. 4s, si. 2s, bl. 2s, si. 2s, bl. 2s, si. 33s).
11496 E 2467	-S. mole, head.	45° 19.8' N 12° 20.4' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	52 16	8	Red round tower; 46.	Visible 060°-290°.
			F.R.	20 6	6		Visible 290°-060°.
11500 E 2466	-N. mole, head.	45° 20.0' N 12° 20.7' E	Fl.G. period 5s fl. 1s, ec. 4s	59 18	8	Green tower, white stripes, on two-story dwelling; 62.	Nautophone: Mo.(U) ev. 45s (bl. 4s, si. 2s, bl. 4s, si. 35s).
	-RACON		M(- -) period 30s		6		
11504 E 2468	Palata delle Ceppe, entrance, S. side.	45° 20.1' N 12° 19.1' E	Fl.(3)R. period 10s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	36 11	5	Red column on pedestal; 33.	
PORTO DI LIDO:							
11508 E 2481	-Approach Beacon.	45° 23.9' N 12° 28.8' E	Fl.W. period 10s fl. 1s, ec. 9s	23 7	6	SAFE WATER RW, articulated beacon; 20.	Fl.G. 2s and Fl.R. 2s articulated beacons mark entrance to approach channel. Radar reflector.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ITALY-NORTHEAST COAST							
11516 <i>E 2480</i>	-N. breakwater, head.	45° 25.3' N 12° 26.2' E	L.Fl.(2)W. period 12s fl. 2s, ec. 2s fl. 2s, ec. 6s	85 26	15	White and black checkered pagoda-like structure, two balconies; 82.	Reserve light range 11M. Nauphone: Mo.(N) ev. 45s (bl. 4s, si. 2s, bl. 2s, si. 37s).
			Fl.(2)G. period 8s fl. 1.5s, ec. 1s fl. 1.5s, ec. 4s	46 14	7	Balcony of same structure.	
	-RACON		V(•••-) period 30s		6		(3 & 10cm)
11520 <i>E 2484</i>	-S. breakwater, head.	45° 25.1' N 12° 25.6' E	Fl.(2)R. period 8s fl. 1.5s, ec. 1s fl. 1.5s, ec. 4s	46 14	8	Red round tower; 46.	
11524 <i>E 2486</i>	-Entrance Range, front, at inner bend of channel.	45° 26.3' N 12° 23.4' E	Fl.W. period 3s fl. 1s, ec. 2s	43 13	11	White tower, black bands, on platform; 33.	
11528 <i>E 2486.1</i>	--Isola de Murano, rear, 3,164 meters 300°40' from front.	45° 27.2' N 12° 21.3' E	Oc.W. period 6s lt. 4s, ec. 2s	121 37	17	White round stone tower black and white band; 115.	Reserve light range 11M. Aeromarine light.
			Dir.Oc.W. period 6s		21		Visible 30' on either side of range line. Reserve light range 11M.
11530 <i>E 2488.4</i>	-1st Port Articulated Beacon.	45° 25.4' N 12° 25.4' E	Fl.R. period 2s fl. 0.5s, ec. 1.5s	20 6	5	PORT (A) R, articulated beacon.	Radar reflector.
11531 <i>E 2488.5</i>	-1st Starboard Articulated beacon.	45° 25.5' N 12° 25.5' E	Fl.G. period 2s fl. 0.5s, ec. 1.5s	20 6	5	STARBOARD (A) G, articulated beacon.	Radar reflector.
11532 <i>E 2485</i>	-Beacon, 1.5 km. 315° from S. breakwater.	45° 25.6' N 12° 25.0' E	Fl.R. period 2s fl. 0.5s, ec. 1.5s	20 6	5	Red hut on platform.	
11534 <i>E 2488.7</i>	-2nd Port Articulated Beacon.	45° 25.8' N 12° 24.3' E	Fl.R. period 2s fl. 0.5s, ec. 1.5s	20 6	5	PORT (A) R, articulated beacon.	Radar reflector.
11535 <i>E 2488.8</i>	-2nd Starboard Articulated Beacon.	45° 25.9' N 12° 24.4' E	Fl.G. period 2s fl. 0.5s, ec. 1.5s	20 6	5	STARBOARD (A) G, articulated beacon.	Radar reflector.
11536 <i>E 2488</i>	-Beacon, 375 meters 080° from new semaphore station.	45° 26.0' N 12° 23.6' E	Fl.R. period 4s fl. 1s, ec. 3s	20 6	5	Red hut on platform.	
11540 <i>E 2490</i>	--Channel, N. side.	45° 26.2' N 12° 23.2' E	Fl.G. period 4s fl. 1s, ec. 3s	20 6	5	Green hut on platform.	
11544 <i>E 2489</i>	---S. side.	45° 26.0' N 12° 23.2' E	Fl.R. period 4s fl. 1s, ec. 3s	20 6	5	Red hut on platform.	
11545 <i>E 2490.8</i>	-Articulated beacon.	45° 25.5' N 12° 22.5' E	Fl.(3)Y. period 9s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 5.5s	20 6	5	SPECIAL Y, articulated beacon, topmark.	Radar reflector.
11546 <i>E 2491</i>	-Articulated beacon.	45° 25.4' N 12° 22.2' E	Fl.G. period 5s fl. 1s, ec. 4s	20 6	5	STARBOARD (A) G, articulated beacon.	Radar reflector.
11548 <i>E 2492</i>	-S. side of channel, 873 meters 006° from San Lazzaro Church.	45° 25.2' N 12° 21.8' E	Fl.(2)R. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	23 7	5	Red hut on platform.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ITALY-NORTHEAST COAST							
11556 <i>E 2504</i>	Porto di Piave Vecchia.	45° 28.7' N 12° 35.0' E	Fl.(4)W. period 24s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 14.8s	147 45	18	White round tower, black bands, on dwelling; 157.	Reserve light range 18M.
11557 <i>E 2504.2</i>	-Fiume Sile.	45° 28.7' N 12° 35.1' E	Fl.(2)G. period 6s fl. 0.3s, ec. 1.7s fl. 0.3s, ec. 3.7s	16 5	4	Green pile.	Private. Fl.(2)R. 6s shown nearby.
11558 <i>E 2505.1</i>	Porto di Cortellazzo, Fiume Piave, W. side.	45° 31.8' N 12° 43.4' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	23 7	4	Red post, 16.	Private light.
11560 <i>E 2506</i>	Porto di Santa Margherita, W. jetty, head.	45° 35.1' N 12° 52.0' E	Fl.R. period 3s fl. 1s, ec. 2s		5	Red post; 20.	Private light.
11564 <i>E 2506.4</i>	-E. jetty, head.	45° 35.2' N 12° 52.1' E	Fl.G. period 3s fl. 1s, ec. 2s		5	Green post; 20.	Private light.
11568 <i>E 2508</i>	Caorle, church of Madonna degli Angeli.	45° 36.0' N 12° 53.7' E	Fl.(2)W. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	39 12	14	Tower of church; 30.	Reserve light range 10M.
11572 <i>E 2518</i>	Punta Tagliamento.	45° 38.2' N 13° 05.9' E	Fl.(3)W. period 10s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	72 22	15	White round tower on dwelling; 69.	2 F.R. (vert.) shown from pier head 4 kilometers N. Reserve light range 11M.
11574 <i>E 2519.5</i>	Lignano Sabbiadoro, approach.	45° 39.7' N 13° 09.7' E	Fl.W. period 2s	20 6	6	SAFE WATER RW, articulated beacon, topmark.	Private light.
11576 <i>E 2521</i>	Porto Lignano, pier, head.	45° 41.8' N 13° 09.2' E	Fl.R. period 2s fl. 0.5s, ec. 1.5s	23 7	8	Red hut; 20.	Visible 152°-330°. F.W. fishing light shown about 9 km. N. on Marano bridge.
11580 <i>E 2520</i>	-Beacon, about 0.5 km. 092° from pier.	45° 41.9' N 13° 09.6' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	18 5	4	Green column; 10.	Visible 343°-142°.
11584 <i>E 2520.4</i>	-Lignano Sabbiadoro, port.	45° 42.2' N 13° 08.9' E	Fl.(2)R. period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6s	33 10	4	Red post.	Visible 325°-235°. Private light.
11588 <i>E 2520.5</i>	--Starboard.	45° 42.2' N 13° 08.7' E	Fl.(2)G. period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6s	33 10	4	Green post.	Visible 200°-068°. Private light.
PORTO BUSO:							
11592 <i>E 2524</i>	-Fiume Aussa, entrance, E. side.	45° 42.8' N 13° 15.2' E	Fl.(2)G. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	26 8	4	Green structure; 21.	
11596 <i>E 2524.7</i>	-E. breakwater, head.	45° 42.3' N 13° 15.4' E	Fl.G. period 5s fl. 1s, ec. 4s	16 5	4	Green post; 7.	
11600 <i>E 2524.5</i>	-W. breakwater, head.	45° 42.3' N 13° 15.0' E	Fl.R. period 5s fl. 1s, ec. 4s	16 5	4	Red post; 7.	
11604 <i>E 2524.3</i>	-About 750 meters NNW. of E. entrance.	45° 43.1' N 13° 15.0' E	Fl.W.G. period 2s fl. 0.5s, ec. 1.5s	16 5	W. G. 4 2	Green hut on dolphin; 16.	G. shore-346°, W.-351°, G.- shore.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ITALY-NORTHEAST COAST							
PORTO DI GRADO:							
11608 <i>E 2525.7</i>	-Articulated beacon.	45° 39.6' N 13° 20.8' E	Fl.W. period 10s fl. 1s, ec. 9s	16 5	6	SAFE WATER RW, topmark.	Radar reflector.
11612 <i>E 2526</i>	-Canale di Grado, entrance, S. side.	45° 40.8' N 13° 22.2' E	Fl.W.R. period 3s fl. 1s, ec. 2s	16 5	W. 7 R. 5	Red lantern on dolphin; 16.	R. 193°-031°, W.-036°. Nautophone: (at head of E. dike) Mo.(K) ev. 45s (bl. 4s, si. 2s, bl. 2s, si. 2s, bl. 4s, si. 31s).
11616 <i>E 2528</i>	-Junction of Canale di San Pietro d'Orio and Grado.	45° 41.0' N 13° 22.4' E	Fl.(2)R. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	16 5	4	Red post on dolphin; 20.	
11620 <i>E 2530</i>	-Canale di Grado, S. side.	45° 41.0' N 13° 22.6' E	Fl.G. period 3s fl. 1s, ec. 2s	16 5	3	Green post on dolphin; 16.	Obscured 266°-048°.
11624 <i>E 2534</i>	-Head of pier, close W. of entrance to Canale della Darsena.	45° 40.9' N 13° 23.1' E	F.R.	23 7	3	Red mast; 16.	
11628 <i>E 2536</i>	-Canale di Belvedene, E. side.	45° 41.0' N 13° 23.2' E	F.G.	23 7	3	Green column; 16.	
11630 <i>E 2537.5</i>	-End of pipeline.	45° 40.2' N 13° 23.8' E	Fl.Y. period 3s fl. 0.3s, ec. 2.7s	20 6	4	Post.	Private light. Radar reflector.
11632 <i>E 2538</i>	Branco Molo di Muggia, beacon, near bank, S. head.	45° 39.3' N 13° 26.4' E	Q.(6)+L.Fl.W. period 15s	23 7	6	S. CARDINAL YB, topmark.	Radar reflector.
11634 <i>E 2540</i>	Punta Sdobba, shoal.	45° 43.3' N 13° 34.2' E	Fl.R. period 5s fl. 1s, ec. 4s	23 7	4	White truncated conical tower and gallery, red bands; 23.	
11635 <i>E 2543</i>	-Articulated beacon.	45° 44.9' N 13° 35.6' E	Fl.W. period 10s fl. 1s, ec. 9s	16 5	6	SAFE WATER RW, topmark.	Radar reflector.
11636 <i>E 2544</i>	-Channel, W. side.	45° 45.2' N 13° 35.0' E	Fl.(2)R. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	20 6	4	Red beacon; 20.	W. side of channel marked by 2 lights Fl.R. 5s 5M, Fl.(2)R. 10s 5M. Radar reflector.
11640 <i>E 2545</i>	--E. side.	45° 45.3' N 13° 35.3' E	Fl.(2)G. period 6s	20 6	4	Green beacon; 20.	E. side of channel marked by 2 lights Fl.G. 5s 5M, Fl.(2)G. 10s 5M. Radar reflector.
11644 <i>E 2548</i>	Duino, mole, head.	45° 46.3' N 13° 36.0' E	F.G.	23 7	3	Green column; 20.	Private light.
11648 <i>E 2547</i>	-Canale San Giovanni, about 0.5 mile NW. of Duino.	45° 46.5' N 13° 35.4' E	Fl.(2)G. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	16 5	4	Green column; 7.	
11652 <i>E 2550</i>	Sistiana, head of W. breakwater.	45° 46.0' N 13° 37.7' E	F.R.	26 8	3	Red post; 23.	Safety distance 15m. Private light.
11656 <i>E 2551</i>	-E. breakwater, head.	45° 46.0' N 13° 38.0' E	F.G.	24 7	3	Green post; 23.	F.G. 3M marks head of mole 2.4 miles SE. Safety distance 15m. Private light.
11660 <i>E 2553</i>	Santa Croce di Trieste, boat basin mole, head.	45° 43.5' N 13° 41.4' E	F.G.	24 7	3	Green column; 16.	Private light.
11664 <i>E 2554</i>	Valle Grignano, pier, head.	45° 42.4' N 13° 42.8' E	F.G.	20 6	3	Red post.	Private light.
11668 <i>E 2555</i>	Cedas breakwater, head.	45° 41.6' N 13° 44.3' E	F.G.	20 6	4	Green column on pedestal; 16.	Private light.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ITALY-NORTHEAST COAST							
11670 <i>E 2556</i>	Barcola.	45° 41.0' N 13° 45.0' E	F.G.	26 8	4	Green post; 23.	Private light.
PORTO DI TRIESTE:							
11676 <i>E 2558</i>	-Vittoria.	45° 40.5' N 13° 45.5' E	Fl.(2)W. period 10s fl. 0.2s, ec. 1.8s fl. 0.2s, ec. 7.8s	378 115	22	White round stone tower surmounted by a bronze figure; 223.	Reserve light range 18M.
-Porto Franco Vecchio:							
11680 <i>E 2560</i>	--Detached breakwater, S. head.	45° 39.3' N 13° 45.8' E	Fl.R. period 3s fl. 1s, ec. 2s	23 7	6	Column on red hut; 23.	
11684 <i>E 2561</i>	--Spur, head.	45° 39.7' N 13° 45.5' E	F.G.	23 7	3	Column on green hut; 16.	Obscured 040°-130°.
11688 <i>E 2562</i>	--Detached breakwater, N. head.	45° 39.8' N 13° 45.5' E	Fl.G. period 3s	26 8	8	Green hut; 7.	
11692 <i>E 2569</i>	--Angle of Molo Fratelli Bandiera.	45° 39.0' N 13° 45.2' E	Fl.G. period 5s fl. 1s, ec. 4s	23 7	3	Green post; 16.	
11696 <i>E 2568</i>	--Molo Fratelli Bandiera Breakwater, head.	45° 38.9' N 13° 45.1' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	23 7	5	White post; 13.	
11700 <i>E 2565</i>	--Breakwater, E. head.	45° 39.0' N 13° 45.6' E	F.G.	23 7	4	Green post; 16.	
11706 <i>E 2557</i>	-Outfall.	45° 38.7' N 13° 40.9' E	Fl.Y. period 3s fl. 0.5s, ec. 2.5s	16 5	5	SPECIAL Y, articulated beacon.	Private light. Radar reflector.
-Emanuele Filiberto Duca d'Acosta Basin:							
11708 <i>E 2576</i>	--N. detached breakwater, N. head.	45° 38.5' N 13° 44.4' E	Fl.(2)G. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	30 9	5	Green column on pedestal; 23.	
11712 <i>E 2578</i>	---S. head.	45° 38.3' N 13° 44.4' E	Fl.R. period 3s fl. 1s, ec. 2s	30 9	8	Red column on pedestal; 23.	
11716 <i>E 2588</i>	--Mole No. 5, NW. corner.	45° 38.4' N 13° 44.6' E	F.G.	23 7	4	Green post; 16.	
11717 <i>E 2588.2</i>	---SW. corner.	45° 38.4' N 13° 44.7' E	F.R.	23 7	4	Red post; 16.	
11724 <i>E 2580</i>	--Middle detached breakwater, N. head.	45° 38.2' N 13° 44.3' E	Fl.G. period 3s fl. 1s, ec. 2s	31 9	5	Green column on pedestal; 23.	
11728 <i>E 2582</i>	---S. head.	45° 37.9' N 13° 44.4' E	Iso.R. period 2s	31 9	5	Red column on pedestal; 23.	Visible 198°-148°.
11732 <i>E 2586</i>	-Diga Luigi Rizzo, N. head.	45° 37.8' N 13° 44.2' E	Iso.G. period 2s	21 6	5	Green column on pedestal; 16.	Visible 018°-328°.
11736 <i>E 2587</i>	--S. head.	45° 37.0' N 13° 44.4' E	Fl.(3)R. period 10s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	30 9	5	Red column on pedestal; 23.	
11744 <i>E 2592</i>	-Molo dei Legnami.	45° 37.7' N 13° 46.5' E	F.G.	26 8	3	Green post; 16.	
11748 <i>E 2593</i>	-Servola, Banchina Italsider, NW. corner.	45° 37.2' N 13° 46.6' E	2 F.R. (vert.)	26 8	3	Red post; 16.	Private light.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ITALY-NORTHEAST COAST							
SAN SABBA:							
11752 <i>E 2601</i>	-Approach Bell Buoy.	45° 37.0' N 13° 43.0' E	Fl.W. period 2s fl. 0.5s, ec. 1.5s	7 2	5	SAFE WATER RW, pillar, topmark.	Marks SW. limit of tanker anchorage. Bell. Private light. Radar reflector.
11756 <i>E 2601</i>	-Trieste-Ingolstadt pipeline terminal, San Sabba, W. mole, head.	45° 36.7' N 13° 47.0' E	2 F.R. (vert.)	26 8 20 6	4	Red post; 10.	Private light.
11760 <i>E 2598</i>	--Terminal No. I, head.	45° 36.6' N 13° 46.6' E	2 F.R.G. (vert.)	26 8 23 7	4	Red post, green bands; 16.	Private light.
11764 <i>E 2597</i>	--No. II, head.	45° 36.7' N 13° 46.4' E	2 F.G.R. (vert.)	26 8 23 7	4	Red post, green bands; 16.	Private light.
11768 <i>E 2597.2</i>	----Root.	45° 36.8' N 13° 46.7' E	F.G.	20 6	4	Green post; 10.	Visible 298°-118°. Private light.
11772 <i>E 2601.4</i>	--Head of pier about 220 yards ESE. of San Sabba Mole.	45° 36.7' N 13° 47.2' E	F.G.	26 8	3	Green post; 20.	
BAIA DI MUGGIA:							
11776 <i>E 2603</i>	-Porto Industriale Entrance Range, front.	45° 36.7' N 13° 48.8' E	F.R.	34 10	10	Aluminum post; 30.	Visible 5°30' on each side of range line.
11780 <i>E 2603.1</i>	--Rear, 150 meters 063°47' from front.	45° 36.8' N 13° 48.9' E	F.R.	43 13	10	Aluminum post; 39.	Visible 5°30' on each side of range line.
11784 <i>E 2602.2</i>	-Petroli Aquila Pier, head.	45° 36.3' N 13° 47.6' E	F.R.	20 6	3	Red post; 13.	Private light.
11788 <i>E 2602</i>	--E. arm, head.	45° 36.3' N 13° 47.6' E	F.G.	21 6	3	Green post; 13.	Private light.
11792 <i>E 2595</i>	-Muggia, E. mole, head.	45° 36.4' N 13° 45.9' E	F.R.	23 7	3	Red post; 16.	Private light.
11796 <i>E 2596</i>	--W. mole, head.	45° 36.4' N 13° 46.0' E	F.G.	23 7	3	Green post; 16.	Private light.
11800 <i>E 2604</i>	-Zaule, pier.	45° 36.5' N 13° 48.2' E	2 F.G. (vert.)	20 6	3	Green post; 16.	Private light.
11808 <i>E 2605</i>	-Jetty, head.	45° 35.7' N 13° 43.4' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	21 6	3	Red column; 16.	Private light.

SLOVENIA

KOPERSKI ZALIV:

11812 <i>E 2607</i>	-Plicinia Debeli, 0.5 km. W. of Rt Debeli.	45° 35.5' N 13° 42.0' E	Q.(9)W. period 15s	26 8	8	W. CARDINAL YBY, tower, topmark; 13.	
-Koper:							
11814 <i>E 2608</i>	--Zaliv Valdoltra.	45° 34.8' N 13° 43.6' E	Fl.(2)R. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	16 5	4	Red tower.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SLOVENIA							
11816 <i>E 2611.5</i>	--Basin 3, E. side.	45° 34.0' N 13° 44.8' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	16 5	4	Red tower; 13.	
11820 <i>E 2613</i>	--Marina, W. breakwater.	45° 33.0' N 13° 43.5' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	23 7	3	Red column with gallery; 16.	Obscured 115°-270°.
11820.5 <i>E 2613.5</i>	---E. breakwater.	45° 33.0' N 13° 43.6' E	Fl.(2)G. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	23 7	3	Green column with gallery; 16.	
11828 <i>E 2612.2</i>	--Stara Luka, N. mole, head.	45° 32.9' N 13° 43.3' E	Fl.(2)R. period 10s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 6.5s	22 7	4	Red metal tower; 20.	
11832 <i>E 2612</i>	--S. pier, head.	45° 32.9' N 13° 43.4' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	23 7	4	Green structure.	
-Izola:							
11836 <i>E 2618</i>	--Rt Petelin.	45° 32.5' N 13° 39.4' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	23 7	6	Red metal tower; 20.	
11840 <i>E 2620</i>	--N. mole, head.	45° 32.4' N 13° 39.3' E	Fl.R. period 3s fl. 1s, ec. 2s	20 6	4	White round tower with column and gallery; 16.	
11844 <i>E 2622</i>	--S. mole, head.	45° 32.2' N 13° 38.9' E	Fl.(2)R. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	20 6	4	Red metal column; 16.	
PIRANSKI ZALIV:							
-Piran:							
11848 <i>E 2624</i>	--Rt Madona , bay, N. entrance.	45° 31.7' N 13° 33.8' E	Iso.W. period 4s	33 10	15	Gray octagonal tower on hut; 30.	Visible 351°-253°.
11852 <i>E 2630</i>	--Head of transverse mole, S. side of entrance.	45° 31.5' N 13° 34.0' E	Fl.G. period 3s	23 7	4	Brick tower; 23.	
11856 <i>E 2628</i>	--Entrance, N. side, mole, head.	45° 31.5' N 13° 34.0' E	Fl.R. period 3s	23 7	3	Red round tower with mast and gallery; 20.	
-Uvala Portoroz:							
11860 <i>E 2632</i>	--Rt Sveti Bernard, mole, head.	45° 30.9' N 13° 34.4' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	30 9	3	Red conical metal tower; 26.	
11864 <i>E 2634</i>	--Mole, head.	45° 30.7' N 13° 35.3' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	20 6	6	White iron lamppost with ladder; 16.	

Section 9

Croatia

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CROATIA							
11868 <i>E 2642</i>	Rt Savudrija.	45° 29.4' N 13° 29.4' E	Fl.(3)W. period 15s fl. 0.5s, ec. 3.2s fl. 0.5s, ec. 3.3s fl. 0.5s, ec. 7s	118 36	30	White round masonry tower, gray cupola; 95.	Reserve light range 12M. Siren: 2 bl. ev. 42s.
11869 <i>E 2642.5</i>	-Plic Zanestra.	45° 28.4' N 13° 29.9' E	Q.(9)W. period 15s	23 7	3	W. CARDINAL YBY, beacon, topmark; 20.	
11870 <i>E 2643</i>	Stara Savudrija.	45° 30.2' N 13° 30.0' E	Fl.(2)R. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	23 7	4	White tower; 16.	Visible 090°-163°, 264°-304°.
LUKA UMAG:							
11872 <i>E 2644</i>	-Plicina Paklena, shoal, W. edge.	45° 26.5' N 13° 30.3' E	Fl.(2)W.R. period 8s fl. 0.5s, ec. 2s fl. 0.5s, ec. 5s	33 10	W. 8 R. 6	Red round metal tower, stone base; 19.	W. 347°-165°, R.-347°.
11876 <i>E 2646</i>	-Mole, head.	45° 26.2' N 13° 30.9' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	29 9	4	Green round iron tower with pillar and balcony; 21.	Visible 000°-315°.
11880 <i>E 2648</i>	-Inner mole, head.	45° 25.9' N 13° 31.2' E	Fl.W. period 3s	26 8	4	White rectangular iron tower with pillar and balcony; 23.	Visible 136°-006°.
11884 <i>E 2649</i>	-Mole, head.	45° 25.4' N 13° 30.9' E	Fl.(2)G. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	23 7	3	Iron tower; 16.	Visible 056°-318°.
11888 <i>E 2652</i>	Dajla, mole, head.	45° 21.6' N 13° 33.2' E	F.R.	23 7	1	Red column; 20.	
LUKA NOVIGRAD:							
11892 <i>E 2654</i>	-Breakwater, head.	45° 19.1' N 13° 33.5' E	L.Fl.W.R.G. period 5s fl. 2s, ec. 3s	23 7	W. 8 R. 5 G. 6	White octagonal tower.	G. 117°-003°, W.-025°, R.-058°, W.-117°.
11896 <i>E 2655</i>	-Mole, head.	45° 19.2' N 13° 33.7' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	23 7	3	White iron tower; 19.	
11900 <i>E 2656</i>	-Boat harbor, mole, head.	45° 19.1' N 13° 33.8' E	F.G.	17 5	3	Black iron lamppost; 15.	
11904 <i>E 2658</i>	Rt.	45° 17.9' N 13° 34.2' E	Fl.(3)W.R. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 4.5s	36 11	W. 9 R. 6	Window of keeper's dwelling; 22.	R. 325°-018°, W.-325°.
11905 <i>E 2660</i>	Plicina Civran, NW. side.	45° 16.9' N 13° 34.3' E	Q.W.	23 7	5	N. CARDINAL BY, beacon, topmark; 20.	
11906 <i>E 2660.2</i>	-SW. side.	45° 16.5' N 13° 34.0' E	Q.(9)W. period 15s	23 7	5	W. CARDINAL YBY, beacon, topmark; 20.	
POREC:							
11908 <i>E 2662</i>	-Hrid Barbaran, N. of entrance.	45° 13.7' N 13° 35.1' E	Fl.W.R. period 5s fl. 0.5s, ec. 4.5s	30 9	W. 8 R. 5	Red iron tower with pillar and balcony; 23.	R. 011°-062°, W.-153°, R.-308°, W. elsewhere.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CROATIA							
11912 E 2663	-N. point of Otocic Sv. Nikola, mole, head.	45° 13.7' N 13° 35.1' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	23 7	5	White round concrete tower with green cupola; 20.	Visible 074°-023°.
11914	-Athletic field, SW. head.	45° 13.7' N 13° 35.4' E	Fl.(2)R. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	20 6	4	Red tower; 16.	Visible 314°-130°.
11920 E 2665	-Mole, head.	45° 13.6' N 13° 35.5' E	Fl.W. period 2s fl. 0.5s, ec. 1.5s	20 6	4	White tower, column and gallery; 16.	
11924 E 2670	Crlenazemja, mole, head.	45° 10.6' N 13° 36.0' E	F.R.	16 5	3	Red pillar.	
11925 E 2670.2	-Funtana Marina.	45° 10.7' N 13° 35.6' E	Fl.(2)G. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	20 6	4	Green tower on platform; 16.	Visible 100°-122°, obsc.-147°, vis.-068°, obsc.-100°.
11926 E 2669	--NW.	45° 11.4' N 13° 34.4' E	Q.(9)W. period 15s	23 7	5	W. CARDINAL YBY, beacon, topmark.	
11928 E 2668	Otocic Visoki (Altijez), on summit of islet.	45° 11.9' N 13° 34.1' E	Fl.(3)W. period 10s	29 9	8	White iron structure, red bands, tank; 20.	
11932 E 2672	Plicina Mramori, on the S. shoal.	45° 08.8' N 13° 34.3' E	Fl.(2)R. period 8s fl. 0.5s, ec. 2s fl. 0.5s, ec. 5s	43 13	7	Red tower, column and gallery; 20.	
11936 E 2674	Otocic Galiner, Vrsar, entrance.	45° 09.3' N 13° 35.7' E	Fl.W. period 2s fl. 0.3s, ec. 1.7s	67 20	5	Red iron skeleton structure; 33.	Visible 185°-025°, obsc.-049°, vis.-064°, obsc.-099°, vis.-116°, obscured elsewhere.
11940 E 2676	Vrsar, mole, head.	45° 08.9' N 13° 36.1' E	Fl.(2)W. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	21 6	4	White round tower with column and gallery; 16.	Visible 072°-000°.
ROVINJ:							
11944 E 2680	-Rt Sveta Eufemija.	45° 05.0' N 13° 37.8' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	62 19	7	White square tower with gallery; 23.	
11948 E 2684	-Juzna Luka, breakwater, head.	45° 04.8' N 13° 38.1' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Red tower with column and gallery; 20.	
11952 E 2686	--Mole, head.	45° 04.5' N 13° 38.2' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	23 7	4	White tower with column and gallery; 20.	
11956 E 2682	-Sjeverna Luka, quay.	45° 05.1' N 13° 38.2' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Green tower with column and gallery; 20.	
11960 E 2690	Hrid Sveti Ivan na Pucini.	45° 02.5' N 13° 36.9' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 6.5s	75 23	24	Masonry tower, dwelling; 49.	Reserve light range 12M. Siren: 1 bl. ev. 30s.
11968 E 2712	-Fazana, N. mole, head.	44° 55.7' N 13° 48.1' E	Fl.R. period 2s fl. 0.5s, ec. 1.5s	25 8	2	Red tower column and gallery; 16.	
11972 E 2692	-Kabula, Brioniski Otoci, rock, N. side.	44° 56.7' N 13° 42.6' E	Q.W.	32 10	9	N. CARDINAL BY, beacon, topmark.	
11976 E 2696	-Saluga, Otok Veliki Brioni, shoal, NE. side.	44° 55.2' N 13° 46.8' E	Fl.(2)W.R. period 8s fl. 0.5s, ec. 2s fl. 0.5s, ec. 5s	26 8	6	Red round metal tower, column and gallery on stone base; 20.	R. 130°-142°, W.-130°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CROATIA							
11980 <i>E 2694</i>	-Brioni (Brijuni), N. mole, head.	44° 55.1' N 13° 46.3' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	23 7	4	Green tower, column and gallery; 20.	
11988 <i>E 2700</i>	-Kotez, on shoal, S. side of channel.	44° 54.4' N 13° 47.7' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	22 7	6	Green tower with column and gallery on submerged base; 20.	
11992 <i>E 2706</i>	-Otok Sveti Jerolim, W. point.	44° 54.0' N 13° 47.1' E	Fl.W. period 2s fl. 0.3s, ec. 1.7s	33 10	5	White tower, column and gallery; 16.	Visible 349°-221°.
11996 <i>E 2710</i>	-Rt Pinida, Brionski Otoci, S. point.	44° 53.3' N 13° 45.4' E	Iso.W. period 4s	66 20	11	Square tower, dwelling; 49.	Visible 238°-114°. Reserve light range 7M. Signal station.
LUKA PULA:							
12000 <i>E 2718</i>	-Rt Kristo, entrance, NE. side.	44° 53.5' N 13° 47.7' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	30 9	5	Square stone tower, red top; 16.	
12004 <i>E 2720</i>	-Rt Kumpare, breakwater, head.	44° 53.2' N 13° 47.5' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	30 9	6	Green tower, column and gallery; 16.	
12008 <i>E 2721</i>	-Otocic Sveta Katerina, S. side.	44° 52.5' N 13° 49.5' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	20 6	1	Red tower, column and gallery on submerged base; 16.	
12012 <i>E 2721.2</i>	--About 80 meters ENE.	44° 52.4' N 13° 49.8' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	20 6	1	Red tower, gallery on submerged base; 16.	
12016 <i>E 2724</i>	-Otocic Sveti Andrija, N. side.	44° 52.4' N 13° 49.5' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	23 7	1	Green tower with gallery on submerged base; 16.	
12020 <i>E 2726</i>	-Otocic Sveti Andrija, S. side.	44° 52.2' N 13° 49.6' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	17 5	4	Red square hut with gallery and white post; 16.	
12024 <i>E 2728</i>	-Commercial port, Gat Rijeka.	44° 52.5' N 13° 50.9' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	23 7	3	White metal tower with column and gallery; 20.	
12032 <i>E 2727</i>	-Otocic Uljanik.	44° 52.6' N 13° 50.4' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	23 7	3	Green tower on submerged base; 16.	
12036 <i>E 2734</i>	Rt Verudica, Luka Veruda, entrance, N. side.	44° 50.0' N 13° 50.0' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	36 11	6	White tower, red top with gallery and dwelling; 26.	
12040 <i>E 2738</i>	Hrid Porer.	44° 45.5' N 13° 53.6' E	Fl.(3)W. period 15s fl. 0.3s, ec. 2.7s fl. 0.3s, ec. 2.7s fl. 0.3s, ec. 8.7s	115 35	25	Masonry tower, dwelling; 102.	Visible 255°-147°. Reserve light range 12M. Siren: 2 bl. ev. 42s (bl. 4s, si. 4s, bl. 4s, si. 30s).
RACON			M(- -) period 120s		20		
KVARNER WEST:							
12048 <i>E 2742</i>	-Plicina Albanez.	44° 44.1' N 13° 54.2' E	Fl.(2)W.R. period 8s fl. 0.5s, ec. 2s fl. 0.5s, ec. 5s	49 15	W. 10 R. 6	White tower with gallery on submerged base; 46.	R. 172°-227°, W.-172°.
12052 <i>E 2738.2</i>	-Hrid Porer, rock, S. head.	44° 45.0' N 13° 54.0' E	Iso.W.R.G. period 6s	39 12	W. 11 R. 7 G. 7	Column with red lantern and gallery on dwelling; 7.	W. 258°-326°, R.-352°, G.-163°, obscured elsewhere. Lighted when Plicina Albanez is extinguished.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CROATIA							
12054 E 7580	Platform Ivana A.	44° 44.7' N 13° 17.6' E	Mo.(U)W. period 15s fl. 0.4s, ec. 0.5s fl. 0.4s, ec. 0.5s fl. 1.2s, ec. 12s	56 17	10		Nautophone: Mo.(U) ev. 30s (bl. 0.75s, si. 1s, bl. 0.75s, si. 1.25s, bl. 2.5s, si. 24s).
12054.2 E 7583	-Ivana B.	44° 41.2' N 13° 12.8' E	Mo.(U)W. period 15s fl. 0.4s, ec. 0.5s fl. 0.4s, ec. 0.5s fl. 1.2s, ec. 12s	74 22	10		Nautophone: Mo.(U) ev. 30s. (bl. 0.75s, si. 1s, bl. 0.75s, si. 1s, bl. 2.5s, si. 24s).
12054.5 E 7581	-Ivana D.	44° 47.0' N 13° 15.5' E	Mo.(U)W. period 15s fl. 0.4s, ec. 0.5s fl. 0.4s, ec. 0.5s fl. 1.2s, ec. 12s	74 22	10		Nautophone: Mo.(U) ev. 30s (bl. 0.75s, si. 1s, bl. 0.75s, si. 1s, bl. 2.5s, si. 24s).
12054.6 E 7582	-Ivana E.	44° 44.7' N 13° 14.5' E	Mo.(U)W. period 15s fl. 0.4s, ec. 0.5s fl. 0.4s, ec. 0.5s fl. 1.2s, ec. 12s	74 22	10		Nautophone: Mo.(U) ev. 30s (bl. 0.75s, si. 1s, bl. 0.75s, si. 1s, bl. 2.5s, si. 24s).
12055 E 7584	-IDA-C.	44° 27.7' N 13° 30.0' E	Mo.(U)W. period 15s fl. 0.4s, ec. 0.5s fl. 0.4s, ec. 0.5s fl. 1.2s, ec. 12s		10		Nautophone: Mo.(U) ev. 30s (bl. 0.75s, si. 1s, bl. 0.75s, si. 1s, bl. 2.5s, si. 24s).
	-Medulinski Zaliv:						
12056 E 2748	--Rt Munat Skrajni.	44° 48.2' N 13° 55.4' E	Fl.W.R. period 2s fl. 0.3s, ec. 1.7s	29 9	W. 7 R. 4	Red tower with column and gallery; 16.	W. 312°-327°, R.-312°.
12058 E 2749	--Bodulas, islet, SW.	44° 47.4' N 13° 56.6' E	Fl.(2)G. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	26 8	5	STARBOARD (A) G, tower; 23.	Visible 278°-142°.
12060 E 2750	--Rt Marlera.	44° 48.2' N 14° 00.2' E	Fl.W. period 9s fl. 0.5s, ec. 8.5s	69 21	9	White tower, gallery, concrete base; 30.	Visible 186°-038°.
12064 E 2751	-Rt Seka, on shoal.	44° 53.7' N 14° 01.1' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	26 8	3	Green tower, gallery; 13.	
	-Zaliv Rasa:						
12068 E 2768	--Rt Ubas (Ubac), entrance, E. side.	44° 56.7' N 14° 04.0' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	52 16	8	White tower, column and gallery; 16.	
12072 E 2769	--Rt Mulac, entrance, W. side.	44° 57.0' N 14° 03.3' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	69 21	3	Red tower column and gallery; 26.	
12076 E 2770	--Rt Kucica.	44° 58.2' N 14° 04.5' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	26 8	3	Green tower, column and gallery; 16.	
12080 E 2772	--Rt Sveti Mikula.	44° 58.8' N 14° 04.6' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	29 9	1	Red tower, gallery on white base; 20.	
12084 E 2773	--Uvala Tunarica.	44° 58.5' N 14° 05.9' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	23 7	1	Red tower, column and gallery; 16.	
12088 E 2774	--Rt Prascarica.	44° 59.4' N 14° 04.3' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	26 8	1	Red tower, column and gallery; 16.	
12092 E 2776	--Uvala Teplica, W. point.	45° 00.2' N 14° 03.5' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	30 9	1	Green tower, gallery on white base, 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CROATIA							
12096 E 2780	--Trget, inlet, W. point.	45° 01.4' N 14° 03.3' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	23 7	1	Green tower, column and gallery; 16.	Visible 326°-170°.
12099 E 2781	-Koromacno, wharf, head.	44° 57.9' N 14° 07.1' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	26 8	4	Green tower, column and gallery; 20.	Visible 002°-253°.
12100 E 2782	-Rt Crna Punta.	44° 57.4' N 14° 08.8' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	49 15	10	White tower in front of house; 16.	Visible 245°-104°.
12102 E 2783	--Skvaranska.	44° 59.2' N 14° 10.4' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	26 8	10	White tower, column and gallery; 16.	
	-Luka Rabac:						
12104 E 2794	--Rt Sveti Andrija.	45° 04.5' N 14° 09.9' E	Fl.(3)W. period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4.5s	30 9	5	Square stone tower; 13.	
12108 E 2798	--Quay.	45° 04.7' N 14° 09.7' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	20 6	2	Green tower with pillar and gallery; 16.	Visible 350°-270°.
12110 E 2798.2	Rt. Masnjak.	45° 07.0' N 14° 12.3' E	Fl.(2)W. period 8s fl. 1s, ec. 2s fl. 1s, ec. 4s	52 16	8	White tower, gallery; 20.	Visible 286°-127°.
12112 E 2799	Uvala Brestova, cove, head.	45° 09.0' N 14° 13.9' E	Fl.G. period 2s fl. 0.5s, ec. 1.5s	23 7	4	Green tower, column and gallery; 16.	
	KVARNER EAST:						
12116 E 2744	-Hrid Galiola.	44° 43.8' N 14° 10.8' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	69 21	12	Octagonal stone tower, gallery; 59.	
	-RACON		K(- • -) period 40s		20		
	-Otok Unije:						
12120 E 2752	--Rt Vnetak.	44° 37.2' N 14° 14.4' E	Fl.(3)W.R. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6.5s	56 17	W. 10 R. 7	Stone tower on house; 43.	W. 270°-158°, R.-176°.
12124 E 2754	--Luka Unije, mole, head.	44° 38.2' N 14° 14.8' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	20 6	3	Red tower, column and gallery; 20.	Visible 093°-146°.
12128 E 2756	--Rt Lakunji.	44° 41.3' N 14° 17.1' 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	26 8	8	White tower, column and gallery; 20.	
12132 E 2760	-Otocic Zecevo, SW. point.	44° 45.9' N 14° 18.2' E	Fl.(2)W.R. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	43 13	W. 8 R. 6	Square stone tower; 26.	W. 194°-176°, R.-194°.
12136 E 2761	-Otocic Visoki, NW. side.	44° 46.6' N 14° 20.9' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	43 13	6	Stone tower; 26.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CROATIA							
-Otok Cres:							
12140 <i>E 2758</i>	--Uvala Bijar.	44° 41.9' N 14° 23.7' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	20 6	4	Red tower, column and gallery; 16.	Visible 116°-106°.
12144 <i>E 2759</i>	--Osor, mole.	44° 41.7' N 14° 23.6' E	Fl.R. period 1.5s fl. 0.3s, ec. 1.2s	20 6	3	Red tower, column and gallery; 16.	
12148 <i>E 2762</i>	--Martinscica, mole, head.	44° 49.1' N 14° 21.3' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s	20 6	3	Red tower, column and gallery; 16.	
12152 <i>E 2764</i>	--Hrid Zaglav.	44° 55.3' N 14° 17.6' E	Fl.(3)W. period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9.5s	65 20	10	Square tower, gallery on dwelling; 49.	
12154 <i>E 2750.3</i>	--Sika, rock.	44° 49.1' N 13° 59.9' E	Fl.(2)R. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	26 8	4	Red tower; 23.	Obscured 340°-112°.
--Luka Cres:							
12156 <i>E 2784</i>	---Rt Kovacine, entrance, N. side.	44° 57.6' N 14° 23.5' E	Fl.(2)R. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	29 9	8	Red tower; 20.	Visible 297°-185°.
12160 <i>E 2792</i>	---Luka Cres, on Rt Krizice.	44° 57.4' N 14° 23.7' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	29 9	4	Green tower; 20.	
12164 <i>E 2788</i>	---Rt Melin.	44° 57.4' N 14° 24.5' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	19 6	3	Red tower, column and gallery; 16.	
12172 <i>E 2802</i>	--Rt Prestenice, Kanal Vela Vrata, E. entrance point.	45° 07.2' N 14° 16.7' E	L.Fl.W. period 10s fl. 2s, ec. 8s	56 17	10	Square tower on two-story dwelling; 43.	Visible 350°-205°.
12176 <i>E 2799.4</i>	--Rt Sip.	45° 10.8' N 14° 14.5' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	75 23	8	Red tower, gallery; 16.	
12180 <i>E 2799.2</i>	C. Brestova.	45° 08.3' N 14° 13.5' E	Fl.(2)R. period 12s fl. 1s, ec. 2.5s fl. 1s, ec. 7.5s	131 40	13	Red tower, gallery; 16.	
12184 <i>E 2799.6</i>	--Banja, Kanal Vela Vrata, NE. entrance point.	45° 09.9' N 14° 18.2' E	Fl.G. period 4s fl. 0.5s, ec. 3.5s	23 7	8	Green tower, gallery; 16.	
12188 <i>E 2801</i>	--Livala Porozina, mole, head.	45° 08.0' N 14° 17.0' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Red tower, column and gallery; 16.	
KANAL SREDNJA VRATA:							
-Otok Cres:							
12194 <i>E 2871</i>	--Merag.	44° 58.8' N 14° 26.8' E	Fl.(3)G. period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4.5s	26 8	4	White tower; 23.	
12196 <i>E 2873</i>	--Rt Tarej.	44° 57.3' N 14° 29.5' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	26 8	6	Red tower, column and gallery on white pedestal; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CROATIA							
RIJECKI ZALIV:							
12200 E 2804	-Moscenice, quay, SE. corner.	45° 14.2' N 14° 15.1' E	F.G.	23 7	3	Green tower, column and gallery; 16.	
12204 E 2810	-Lovran, S. breakwater, head.	45° 17.4' N 14° 17.1' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	26 8	4	Green square tower, column and gallery; 23.	
12208 E 2812	-Ika, mole, N. head.	45° 18.2' N 14° 17.3' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	23 7	2	Red tower, column; 16.	
12212 E 2816	-Opatija, mole, head.	45° 20.2' N 14° 19.0' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	23 7	6	Red tower with column and gallery; 20.	Visible 137°-354°.
12216 E 2817	--Marina, breakwater, head.	45° 19.6' N 14° 18.3' E	Fl.(2)R. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	23 7	4	Red tower, column and gallery; 16.	
12220 E 2818	-Volosko, S. mole, head.	45° 20.9' N 14° 19.7' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	23 7	3	Red tower, column and gallery; 16.	
12224 E 2820	--N. mole, head.	45° 21.0' N 14° 19.0' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	23 7	3	Green tower, column and gallery; 16.	
12226 E 2829	-Petrolejska.	45° 20.0' N 14° 24.7' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	26 8	4	Green tower, column and gallery on submerged base; 20.	
12228 E 2822	-Mlaka.	45° 20.0' N 14° 25.6' E	Fl.W. period 10s fl. 0.7s, ec. 9.3s	128 39	15	White tower with black bands, cupola and gallery; 125.	Reserve light range 12M.
-Luka Rijeka:							
12232 E 2830	--Brgud, S. breakwater, head.	45° 20.0' N 14° 25.0' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	33 10	4	Green tower, column on building; 11.	
12240 E 2824	--Generala Petra Drapsina, breakwater, head.	45° 20.0' N 14° 25.0' E	Fl.(3)G. period 5s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 2.5s	49 15	5	Green tower, gallery; 46.	
12244 E 2828	--Mole Lole Ribara, head.	45° 19.8' N 14° 25.3' E	Fl.(3)R. period 5s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 2.5s	30 9	4	Red square tower, column and gallery; 23.	
-Susak:							
12248 E 2842	--Detached breakwater, S. side.	45° 19.0' N 14° 27.0' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	29 9	3	Green tower, column and gallery; 23.	
12252 E 2840	--N. side.	45° 19.0' N 14° 27.0' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	23 7	2	Red tower, column and gallery; 16.	
12254 E 2843	-RoRo berth.	45° 19.3' N 14° 27.1' E	Fl.W. period 3s fl. 1s, ec. 2s	23 7	4	White tower; 20.	
12256 E 2844	-Luka Marinscica, E. breakwater, head.	45° 18.7' N 14° 28.6' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	38 12	3	Green tower, column and gallery; 16.	
12256.2 E 2844.5	--W. pier.	45° 18.7' N 14° 28.5' E	Fl.(2)R. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	26 8	4	Red column; 13.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CROATIA							
12256.4 <i>E 2844.8</i>	--Floating dock, SW. corner.	45° 18.5' N 14° 28.6' E	Fl.(2)G. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s			4 Green column.	Visible 030°-185°.
KVARNER:							
12260 <i>E 3036</i>	-Otok Susak.	44° 30.8' N 14° 18.3' E	L.Fl.(2)W. period 10s fl. 2s, ec. 2s fl. 2s, ec. 4s	328 100		19 Square tower, dwelling; 39.	Reserve light range 8M.
12264 <i>E 3038</i>	-Uvala Dragoca, N. breakwater, head.	44° 30.8' N 14° 18.9' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	23 7		3 Green tower, column and gallery; 16.	
12268 <i>E 3034</i>	-Hrid Silo, Otok Srakane Male, SE.	44° 33.5' N 14° 21.6' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	36 11		5 Stone tower, red gallery, white concrete base; 20.	
12270 <i>E 3035</i>	-Otocic Vele Srakane.	44° 34.5' N 14° 19.2' E	Fl.(2)W. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	20 6		4 White tower; 13.	
12272 <i>E 3042</i>	-Otocic Sveti Petar, Otok Losinj, SW.	44° 27.6' N 14° 33.6' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	23 7		5 White iron tower; 16.	Visible 115°-128°, 285°-320°.
12273 <i>E 3043</i>	-Otok Ilovik.	44° 27.7' N 14° 33.2' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	23 7		3 White tower with column and gallery; 16.	
-Otok Losinj:							
12276 <i>E 3032</i>	--Rt Kurila.	44° 33.7' N 14° 22.4' E	Fl.W.R. period 5s fl. 0.5s, ec. 4.5s	36 11	W. R.	8 Stone tower on white pedestal; 26.	W. 189°-175°, R.-189°.
--Luka Mali Losinj:							
12280 <i>E 3022</i>	---Otocic Murtar, SW. point.	44° 33.0' N 14° 25.2' E	L.Fl.W. period 8s fl. 2s, ec. 6s	30 9		8 White tower, gallery on pedestal and dwelling; 30.	
12284 <i>E 3023</i>	---Otocic Zabodaski, W. side.	44° 33.1' N 14° 24.2' E	Fl.(2)R. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	39 12		4 Square stone tower, red top; 20.	
12288 <i>E 3024</i>	---Otocic Koldurac (Koludarc), on Rt Kriz, entrance, S. side.	44° 33.5' N 14° 25.7' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	33 10		3 Green tower, white pedestal; 23.	
12292 <i>E 3026</i>	---Rt Torunza, entrance, N. side.	44° 33.7' N 14° 25.5' E	Fl.W.R. period 3s fl. 0.3s, ec. 2.7s	33 10	W. R.	6 Red tower, white concrete base; 23.	W. 065°-072°, R.-065°.
12296 <i>E 3028</i>	---Rt Poljana.	44° 33.3' N 14° 26.5' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	30 9		5 Red framework tower on white pedestal; 26.	
12300 <i>E 3029</i>	---Mole, NW. corner.	44° 32.2' N 14° 27.9' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s	23 7		4 Red tower, column and gallery; 16.	
12304 <i>E 3019</i>	--Luka Cikat, on Rt Madona.	44° 31.6' N 14° 27.2' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	39 12		3 Stone tower, green gallery; 23.	
12308 <i>E 3016</i>	--Veli Losinj, on E. entrance point.	44° 31.4' N 14° 30.4' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	33 10		3 Red tower with column and gallery; 16.	Visible 170°-270°.
12312 <i>E 3014</i>	--Luka Sveta Martin, mole, head.	44° 32.0' N 14° 28.9' E	F.R.	16 5		3 Red metal column; 13.	
12316 <i>E 3012</i>	--Nerezine, S. mole, head.	44° 39.8' N 14° 24.2' E	F.R.	16 5		3 Red column; 13.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CROATIA							
12320 <i>E 3008</i>	--Otocic Palacol.	44° 32.5' N 14° 37.5' E	Fl.(2)W.R. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	36 11	W. 8 R. 5	White tower, gallery on concrete pedestal; 23.	R. 078°-150°, W.-078°.
-Otok Cres:							
12324 <i>E 3006</i>	--Rt Suha.	44° 36.2' N 14° 30.2' E	Fl.W.R. period 5s fl. 0.5s, ec. 4.5s	20 6	W. 9 R. 6	White tower, column and gallery; 16.	R. 285°-319°, W.-285°.
12328 <i>E 3004</i>	--Luka Jadresnica.	44° 37.0' N 14° 30.5' E	F.G.	16 5		Green column; 16.	
12332 <i>E 3002</i>	-Otocic Trstenik.	44° 40.1' N 14° 34.8' E	L.Fl.W.R. period 10s fl. 2s, ec. 8s	85 26	W. 11 R. 8	Stone tower, dwelling; 39.	W. 042°-346°, R.-018°, W.-032°.
RIJECKI ZALIV:							
12336 <i>E 2850</i>	-Podurinj (Urinj), mole, head.	45° 17.0' N 14° 31.8' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	19 6		Green tower, column and gallery; 16.	
12340 <i>E 2855</i>	--Rt Sridnji, entrance, N. point.	45° 16.7' N 14° 33.5' E	Fl.(2)W. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	39 12		White iron tower with gallery; 16.	Visible 212°30'-053°.
12342 <i>E 2845.1</i>	-Rt Ostro, Kraljevica.	45° 16.4' N 14° 33.6' E	Iso.W. period 4s	49 15		Red tower, white bands; 49.	
-Bakarski Zaliv:							
12344 <i>E 2854.2</i>	--Kraljevica, landing pier, SW. corner.	45° 16.5' N 14° 34.0' E	F.G.	16 5		White iron column; 13.	
12348 <i>E 2854</i>	---NE. corner.	45° 16.4' N 14° 34.1' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	20 6		White tower; 16.	
12352 <i>E 2856</i>	--Kavranic, entrance, NE. point.	45° 16.8' N 14° 33.9' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	49 15		Pyramidal stone tower; 20.	
12356 <i>E 2857</i>	--Rt Babno.	45° 16.9' N 14° 33.6' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	41 12		Red round tower, column and gallery; 16.	
12360 <i>E 2862</i>	--Bakarac, mole, head.	45° 16.8' N 14° 34.9' E	F.R.	20 6		Red tower, column; 16.	
VELEBITSKI KANAL:							
-Tihi Kanal:							
12364 <i>E 2890</i>	--Otocic Sv. Marko.	45° 15.2' N 14° 34.2' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	49 15		Red tower, column and gallery; 20.	
12368 <i>E 2892</i>	--Rt Glavina.	45° 14.4' N 14° 34.9' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	23 7		Red tower, column and gallery; 16.	
12376 <i>E 2894</i>	--Rt Voscica, on Otok Krk.	45° 14.3' N 14° 35.7' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	39 12		Masonry tower on dwelling; 26.	Visible 106°-346°.
12380 <i>E 2895</i>	--Rt Turnac, W. side.	45° 13.4' N 14° 36.5' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	29 9		White tower, red daymark; 19.	
12384 <i>E 2896</i>	--Rt Ertak, E. side.	45° 13.0' N 14° 37.0' E	Fl.W. period 2s fl. 0.3s, ec. 1.7s	29 9		White tower, column, gallery and dwelling; 16.	

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CROATIA							
12388 <i>E 2906</i>	-Crikvenica, E. side of channel, S. mole, head.	45° 10.3' N 14° 41.7' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	26 8	3	Green square tower, column and gallery; 23.	
	-Otok Krk:						
12392 <i>E 2898</i>	--Soline, near Cape Glavati.	45° 09.7' N 14° 38.4' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	30 9	4	Stone tower, red daymark; 20.	Visible 090°-248°.
12396 <i>E 2899</i>	---Hrid Crni, about 0.5 km. SW. of Soline.	45° 09.6' N 14° 38.0' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	13 4	3	Red tower column; 10.	Visible 051°-256°.
12400 <i>E 2900</i>	--Klimno, mole, head.	45° 09.4' N 14° 37.5' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	23 7	3	Red tower, column and gallery; 16.	
12404 <i>E 2902</i>	--Uvala Stipnanja, Silo, breakwater.	45° 08.9' N 14° 40.2' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	20 6	3	Green tower, column and gallery; 16.	
12408 <i>E 2901</i>	---Rt Silo.	45° 09.4' N 14° 40.5' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	46 14	7	Stone tower; 30.	
12412 <i>E 2908</i>	-Selce, pier, head.	45° 09.4' N 14° 43.3' E	Fl.(2)W. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	23 7	3	White tower, column and gallery; 20.	Visible 036°-306°.
12416 <i>E 2910</i>	-Rt Tokal.	45° 08.3' N 14° 44.9' E	Fl.W. period 6s fl. 1s, ec. 5s	66 20	9	White tower, red column; 23.	
12420 <i>E 2912</i>	-Novi Vinodolski, breakwater, head.	45° 07.5' N 14° 47.6' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	26 8	2	Green square tower, column and gallery; 23.	
12424 <i>E 2914</i>	--Inner mole, head.	45° 07.5' N 14° 47.6' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	23 7	2	Red tower, column and gallery; 16.	
12428 <i>E 2903.3</i>	-Vrbnik, mole, head.	45° 04.8' N 14° 40.8' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	20 6	3	Red tower, column and gallery; 16.	
12432 <i>E 2916</i>	-Hrid Sv. Anton, on SW. extremity.	45° 05.8' N 14° 50.8' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	29 9	6	White stone tower; 13.	
12436 <i>E 2923</i>	-Senj, Sv. Ambroz mole, head.	44° 59.5' N 14° 54.2' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	33 10	5	Stone tower, red daymark; 30.	
12444 <i>E 2922</i>	-Marija Art breakwater, head.	44° 59.4' N 14° 53.8' E	Fl.(3)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 4.5s	34 10	8	Stone tower; 30.	
12448 <i>E 2926</i>	-Jurjevo, mole, head.	44° 55.8' N 14° 55.4' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	20 6	3	Stone tower, red column; 16.	Visible 093°-183°.
12452 <i>E 2928</i>	-Lukovo Otoko, Rt Malta.	44° 52.0' N 14° 53.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	29 9	8	Square stone tower; 13.	
12456 <i>E 2929</i>	-Lukovo Otoko, mole, head.	44° 51.3' N 14° 53.6' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s	20 6	3	Red tower, column and gallery; 16.	
12458 <i>E 2931</i>	-Starigard.	44° 47.8' N 14° 52.9' E	Fl.(2)W. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	23 7	4	White tower; 23.	

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CROATIA							
KVARNERIC:							
12460 <i>E 2887</i>	-Rt Strazica, Otok Prvic, NW. extremity.	44° 56.0' N 14° 46.5' E	Fl.W. period 6s fl. 1s, ec. 5s	69 21	9	White tower, gallery on pedestal and dwelling; 16.	
12464 <i>E 2886.4</i>	-Rt Skuljica, Otok Krk, SE. extremity.	44° 56.6' N 14° 46.0' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	59 18	6	Red round tower; 16.	
12468 <i>E 2886</i>	-Otocic Galun, NE. extremity.	44° 56.4' N 14° 41.1' E	Fl.(3)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 4.5s	39 12	8	Square stone tower, on white pedestal; 26.	
KANAL SREDNJA VRATA:							
12472 <i>E 2872</i>	-Rt Veli Pin, Otok Plavnik, W. extremity.	44° 58.8' N 14° 29.4' E	Fl.W. period 6s fl. 1s, ec. 5s	66 20	10	Stone tower on white pedestal; 39.	
VELEBITSKI KANAL:							
12476 <i>E 2904</i>	--Baska, mole, head.	44° 58.1' N 14° 46.0' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	33 10	4	Square tower, green daymark; 26.	
12480 <i>E 2905</i>	---W. mole, head.	44° 58.3' N 14° 45.6' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Red tower, column and gallery; 16.	
KVARNERIC:							
12484 <i>E 2884</i>	--Rt Negrit.	44° 58.8' N 14° 37.4' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	46 14	5	Green tower, column, gallery and dwelling; 16.	
12488 <i>E 2880</i>	--Puntarska Draga, on Rt Pod Strazica.	45° 00.7' N 14° 37.8' E	Fl.W. period 2s fl. 0.3s, ec. 1.7s	29 9	5	White tower, column and gallery on pedestal; 16.	
12492 <i>E 2882</i>	---Punat, breakwater, head.	45° 01.3' N 14° 38.1' E	Fl.G. period 4s fl. 0.5s, ec. 3.5s	20 6	3	Green tower, column, gallery and dwelling; 16.	Visible 082°-294°.
12496 <i>E 2874</i>	--Krk, mole, head.	45° 01.4' N 14° 35.0' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s	26 8	3	Red square tower; 26.	
12500 <i>E 2876</i>	---E. mole, head.	45° 01.5' N 14° 34.6' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	20 6	3	Green tower with column; 16.	
KANAL SREDNJA VRATA:							
12504 <i>E 2870.4</i>	--Rt Sv. Mikula.	45° 01.3' N 14° 30.3' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	26 8	4	White tower, column and gallery; 16.	
12508 <i>E 2870</i>	--Rt Manganel.	45° 04.4' N 14° 26.3' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	43 13	8	Square stone tower on pedestal; 26.	
12512 <i>E 2869</i>	--Rt Glavotok.	45° 05.4' N 14° 26.4' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s	23 7	3	Red tower, column; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CROATIA							
RIJECKI ZALIV:							
12516 <i>E 2868</i>	--Malinska, mole, head.	45° 07.5' N 14° 31.9' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	23 7	4	Red tower, column and gallery; 16.	
12524 <i>E 2867</i>	--Njivice, mole, head.	45° 09.9' N 14° 32.9' E	Fl.G. period 4s fl. 0.3s, ec. 3.7s	23 7	3	Green round iron tower with pillar and balcony; 20.	
12526 <i>E 2866.5</i>	--Sapan, quay.	45° 12.1' N 14° 32.5' E	Fl.G. period 5s fl. 1s, ec. 4s	23 7	4	Green tower with column and gallery; 20.	
12528 <i>E 2866</i>	--Tenka Punta.	45° 13.7' N 14° 32.1' E	Fl.(3)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 4.5s	30 9	7	White square stone tower on concrete block; 23.	
12532 <i>E 2863</i>	--Kijac.	45° 14.2' N 14° 32.5' E	Fl.(2)R. period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6s	46 14	8	Red round tower; 16.	Obscured 224°-331°.
12536 <i>E 2864</i>	---Range, front.	45° 12.7' N 14° 33.3' E	Iso.G. period 2s	75 23	11	White column with platform, red diamond daymark.	
12540 <i>E 2864.1</i>	----Rear, 400 meters 151° from front.	45° 12.4' N 14° 33.1' E	Oc.G. period 5s lt. 3s, ec. 2s	105 32	11	White column with platform, red diamond daymark.	
VELEBITSKI KANAL:							
12544 <i>E 2888</i>	-Rt Sajalo, Otok Goli, NW. point.	44° 51.0' N 14° 48.2' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	26 8	5	Stone tower; 16.	
12547 <i>E 2937</i>	-Stinica.	44° 43.2' N 14° 53.4' E	Fl.(3)W.R. period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4.5s	26 8	W. 5 R. 3	White tower; 26.	R. 207°-056°, W-207°.
12548 <i>E 2940</i>	-Jablanac, on Rt Gradic, entrance, N. side.	44° 42.5' N 14° 53.7' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	10 3	4	Red square tower on column; 16.	
12552 <i>E 2941</i>	--Entrance, S. side.	44° 42.3' N 14° 54.2' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	23 7	3	Green tower, column, gallery; 16.	
12556 <i>E 2942</i>	-Plicina Glavina.	44° 41.9' N 14° 52.7' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	23 7	4	ISOLATED DANGER BRB, topmark.	
12558 <i>E 2942.3</i>	-Rt Glavina.	44° 42.3' N 14° 52.0' E	Fl.(2)G. period 4s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2s	26 8	4	Green tower, gallery, pedestal; 20.	
12560 <i>E 2942.4</i>	-Misnjak.	44° 42.0' N 14° 52.0' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	20 6	3	Red round tower on white submerged base; 16.	Obscured 288°-132°.
12564 <i>E 2942.5</i>	-Luka Misnjak.	44° 42.5' N 14° 51.8' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	20 6	3	White tower, column and gallery; 13.	Visible 254°-016°.
12568 <i>E 2938</i>	--Rt Stokic, N. of port.	44° 42.6' N 14° 53.9' E	Fl.W. period 6s fl. 1s, ec. 5s	164 50	8	White tower on concrete base; 20.	Visible 346°-174°.
12576 <i>E 2943</i>	-Hrid Pohljib.	44° 41.9' N 14° 50.8' E	Fl.W. period 2s fl. 0.3s, ec. 1.7s	23 7	5	Square stone tower; 16.	Visible 275°-168°.

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CROATIA							
12578 <i>E 2943.9</i>	-Plicina Prizna.	44° 36.2' N 14° 58.2' E	Fl.(2)W. period 5s fl. 0.3s, ec. 0.9s fl. 0.3s, ec. 3.5s	26 8	8	ISOLATED DANGER BRB, tower on stone base, topmark.	
12580 <i>E 2944</i>	-Rt Jurisnica.	44° 34.4' N 14° 59.6' E	Fl.(3)W. period 12s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 6.5s	33 10	9	White octagonal concrete tower; 23.	
12584 <i>E 2948</i>	-Karlobag, S. mole, head.	44° 31.4' N 15° 04.5' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	26 8	4	Green iron tower; 23.	
KVARNERIC:							
-Otok Rab:							
12588 <i>E 2975</i>	--Lopar, mole, head.	44° 50.2' N 14° 43.6' E	Fl.(2)W. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	26 8	3	White tower; 23.	
12592 <i>E 2976</i>	--Rt Sorinj.	44° 50.7' N 14° 41.0' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	33 10	6	White tower; 23.	
12594 <i>E 2977</i>	--Supetarska, breakwater, head.	44° 48.2' N 14° 43.3' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	23 7	4	Red round tower with column and gallery; 16.	
12596 <i>E 2978</i>	--Rt Kalifront.	44° 47.3' N 14° 39.6' E	Fl.(3)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6.5s	36 11	8	White tower, column on pedestal; 16.	
12600 <i>E 2982</i>	--Uvala Kristofor, entrance, W. side.	44° 45.5' N 14° 42.1' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	33 10	8	White tower with gallery and column; 16.	
12604 <i>E 2995</i>	-Otok Dolin, on Donji Rt.	44° 44.4' N 14° 46.2' E	Fl.(3)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 4.5s	30 9	7	White iron tower with post; 20.	
12608 <i>E 2984</i>	--Luka Rab, Plicina Frkanj.	44° 44.9' N 14° 45.5' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	20 6	4	Stone tower, green top; 23.	
12612 <i>E 2986</i>	---Rt Frkanj.	44° 45.1' N 14° 45.3' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	16 5	4	Square stone tower, red topmark; 13.	
12616 <i>E 2994</i>	---Otocic Tunera, N. extremity.	44° 45.1' N 14° 46.0' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	46 14	4	Octagonal stone tower, green top; 23.	Visible 342°-222°.
12620 <i>E 2992</i>	--Luka Rab, on Rt Sveti Ante, extremity of shoal.	44° 45.2' N 14° 45.7' E	Fl.R. period 1.5s fl. 0.3s, ec. 1.2s	23 7	3	Red iron column; 20.	
12624 <i>E 2988</i>	---Mole, head.	44° 45.3' N 14° 45.8' E	Fl.G. period 2s fl. 0.5s, ec. 1.5s	23 7	3	Green tower, column and gallery; 20.	
12632 <i>E 2998</i>	-Otocic Dolfin.	44° 41.5' N 14° 41.7' E	Fl.(2)W.R. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	98 30	W. 10 R. 7	Red 4-sided tower with pillar and gallery; 18.	R. 138°-153°, W.-138°.
12640 <i>E 2995.6</i>	-Uvala Stara Novallija, Rt Deda.	44° 36.2' N 14° 52.6' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	30 9	5	Square stone tower on white pedestal; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CROATIA							
12644 <i>E 2997</i>	--Luka Novalja, pier, S. head.	44° 33.3' N 14° 53.3' E	Fl.R.G. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Red tower, column and gallery; 16.	G. 085°-109°, R.-elsewhere.
12646 <i>E 2946</i>	--Zigljen.	44° 34.8' N 14° 57.1' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	23 7	3	Green tower with column and gallery; 16.	Visible 157°-219°.
12646.5 <i>E 2945</i>	--NW. point.	44° 34.9' N 14° 57.4' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	39 12	6	Red framework tower with gallery, concrete base; 21.	Visible 019°-270°.
12647 <i>E 2995.8</i>	--Rt Zali.	44° 36.8' N 14° 54.7' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	30 9	8	White round tower on concrete base; 26.	Visible 091°-308°.
VIRSKO MORE:							
--Otok Pag:							
12648 <i>E 3075</i>	--Uvala Mandre.	44° 29.0' N 14° 54.8' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	23 7	7	White round tower; 16.	
12656 <i>E 3077</i>	--Rt Zaglav.	44° 23.7' N 15° 02.6' E	Fl.(3)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 4.5s	30 9	7	White iron skeleton structure; 16.	
12660 <i>E 3078</i>	--Luka Kosljun, mole, root.	44° 23.8' N 15° 05.0' E	Fl.R.G. period 5s fl. 0.5s, ec. 4.5s	23 7	R. G. 3 2	Green tower with column and gallery; 16.	G. 353°-027°, R.-353°.
12664 <i>E 3080</i>	--Luka Nova Poveljana.	44° 20.9' N 15° 06.1' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	30 9	5	Red iron column; 20.	
12668 <i>E 3082</i>	--Bitve.	44° 19.0' N 15° 07.1' E	Fl.(2)R. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	23 7	5	Stone tower on concrete base, upper part red; 20.	
12672 <i>E 3084</i>	--Rt Prutna.	44° 17.5' N 15° 11.1' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	26 8	3	Pyramidal stone tower, red upper gallery; 20.	Visible 121°-031°.
12676 <i>E 3083</i>	--Plicina Prutna, shoal, SW. edge.	44° 17.6' N 15° 09.4' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Square stone tower on concrete base, upper part red; 20.	Visible 296°-180°.
12680 <i>E 3087</i>	--Otocic Sikavic Mali, on SE. point.	44° 17.7' N 15° 14.5' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Red metal tower; 16.	
12684 <i>E 3086</i>	--Otocic Misjak, on NW. point.	44° 18.2' N 15° 11.4' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	26 8	3	Pyramidal tower with gallery on concrete base, upper part green; 20.	
12688 <i>E 2953</i>	--Pag Luka, near Rt Golija.	44° 26.9' N 15° 03.3' E	Fl.(2)R. period 5s	23 7	7	Red round metal tower; 16.	
12692 <i>E 2954</i>	--S. mole.	44° 26.6' N 15° 03.4' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	23 7	2	Red round metal tower; 16.	
12696 <i>E 2951</i>	--Rt Zaglav.	44° 30.2' N 15° 00.6' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	29 9	4	Green round metal tower; 20.	
12700 <i>E 2952</i>	--Rt Sveti Nikola.	44° 28.8' N 15° 02.8' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	33 10	4	Red metal column and hut; 16.	
12704 <i>E 2950</i>	--Rt Kristofor.	44° 29.0' N 15° 05.0' E	Fl.W. period 5s fl. 5s, ec. 4.5s	203 62	7	White octagonal concrete tower; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CROATIA							
12708 E 2960	-Hrid Konj.	44° 25.2' N 15° 13.0' E	Fl.(3)W. period 12s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 6.5s	23 7	6	White round iron tower; 20.	
12712 E 2962	-Kruscica Dukoba, on Rt Duga.	44° 21.0' N 15° 18.9' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	20 6	5	Red round iron tower; 16.	
12716 E 3088	-Ljubacka Vrata, on Rt Ostrijak, entrance, E. side.	44° 19.4' N 15° 15.8' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	30 9	4	Square stone tower, green day mark; 20.	Visible 335°-213°.
12720 E 3087.4	--Rt Fortica, entrance, W. side.	44° 19.0' N 15° 16.0' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	21 6	3	Square stone tower; 13.	
12724 E 2961	-Rt Debela Nozica.	44° 19.9' N 15° 16.2' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	26 8	6	Pyramidal stone column; 20.	
12728 E 2964	-Otocic Razanac Veli.	44° 18.9' N 15° 21.6' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	52 16	9	White tower, column and gallery; 20.	
12732 E 2966	-Razanac, breakwater, head.	44° 17.1' N 15° 20.8' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	23 7	4	Red tower; 16.	
12736 E 2970	-Starigrad, breakwater, head.	44° 17.6' N 15° 26.6' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Red metal tower; 16.	
12740 E 2972	-Vinjerac, mole, head.	44° 15.6' N 15° 27.8' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	23 7	3	Red tower, pillar and gallery; 16.	Obscured 135°-151°.
12744 E 2971	-Rt Pisak.	44° 16.0' N 15° 29.0' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Red metal tower; 16.	
NOVSKO ZDRILO:							
12748 E 2973	-Rt Baljenica.	44° 14.9' N 15° 31.8' E	Fl.(2)R. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	33 10	5	Concrete tower, upper part red; 13.	
12749 E 2972.5	-Rovanjska.	44° 15.0' N 15° 32.2' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	23 7	2	Red tower; 20.	
12752 E 2973.1	-Rt Korotanja.	44° 14.8' N 15° 31.6' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	29 9	2	Green round tower; 16.	
12756 E 2973.3	-Rt Vranine, W. shore.	44° 14.0' N 15° 31.0' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	23 7	2	Green round tower; 18.	
12760 E 2973.4	-Rt Brzac, E. shore.	44° 14.0' N 15° 31.0' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	20 6	2	Red round tower; 16.	
12764 E 2973.6	-Rt Zdrijac, W. shore.	44° 13.2' N 15° 32.5' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	26 8	3	Green round tower; 16.	
NOVIGRADSKO MORE:							
12767 E 2974.3	-Posedarje.	44° 12.4' N 15° 28.5' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	23 7	3	Green tower and gallery; 20.	Visible 263°-189°.
12768 E 2974	-Luka Novigrad, on Rt Sveti Nikola.	44° 11.3' N 15° 33.2' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	33 10	4	Stone tower on concrete dwelling; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CROATIA							
KVARNER:							
12772 E 3044	-Otocic Grujica.	44° 24.6' N 14° 34.4' E	Fl.(3)W. period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9.5s	56 17	10	Square tower, white dwelling; 49.	Reserve light range 8M.
	-RACON		O(---) period 40s		20		
OTOK PREMUDA:							
12780 E 3046	-Otocic Kamenjak, N. head.	44° 21.4' N 14° 35.1' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	39 12	7	White metal tower; 26.	Partly obscured by Kamenjak and Lutrosn Kja Islets.
12784 E 3048	-Luka Krijal, N. mole, head.	44° 20.2' N 14° 35.9' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	20 6	4	White metal column; 16.	
12788 E 3050	-Uvala Loza.	44° 20.8' N 14° 36.4' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	23 7	4	Red tower with column and gallery; 16.	
VIRSKO MORE:							
-Sibanski Kanal:							
--Otok Silba:							
12792 E 3054	---Zalic, mole, head.	44° 22.5' N 14° 41.4' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	20 6	3	White tower, column and gallery; 16.	
12796 E 3058	---Rt Arat.	44° 20.7' N 14° 43.4' E	Q.(6)+L.Fl.W. period 15s	30 9	8	S. CARDINAL YB, tower, topmark; 29.	
12800 E 3052	--Otocic Grebeni.	44° 20.0' N 14° 41.7' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	69 21	6	Stone tower; 13.	
-Olipiski Kanal:							
12804 E 3060	--Silbinski Kanal, breakwater, head.	44° 22.5' N 14° 42.5' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	26 8	4	Red square tower, column and gallery; 23.	
12808 E 3064	--Otocic Morovnik.	44° 25.9' N 14° 44.3' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	26 8	5	White square stone tower; 26.	
12812 E 3066	--Luka Olib, breakwater, head.	44° 22.8' N 14° 46.7' E	Fl.W.R. period 3s fl. 0.5s, ec. 2.5s	23 7	4	White tower, column and gallery; 20.	R. 144°-165°, W.-144°.
-Pohlibski Kanal:							
12816 E 3072	--Ostrov Skrda, NW. point.	44° 28.9' N 14° 51.2' E	Fl.(3)W. period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9.5s	49 15	10	Square stone tower on pedestal; 39.	
12820 E 3068	--Otocic Pohlib.	44° 23.7' N 14° 53.8' E	Fl.W. period 5s fl. 5s, ec. 4.5s	52 16	9	Red tower, column and gallery on stone base; 26.	
12824 E 3081	-Otok Vir, on W. side.	44° 18.3' N 15° 01.6' E	Fl.W. period 10s fl. 1s, ec. 9s	69 21	11	Masonry tower; 69.	Visible 315°-163°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CROATIA							
OTOK IST:							
12825 <i>E 3065</i>	-Plic Krizica.	44° 17.7' N 14° 43.9' E	Fl.(2+1)R. period 6s fl. 0.3s, ec. 0.4s fl. 0.3s, ec. 1.2s fl. 0.3s, ec. 3.5s	20 6	4	Red tower, green band; 20.	Visible 215°-138°.
12826 <i>E 3089</i>	-Uvala Kosiraca, head.	44° 16.8' N 14° 45.4' E	Fl.(2)W. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	23 7	4	White tower, column and gallery; 20.	
12828 <i>E 3090</i>	-Uvala Siroka, mole, head.	44° 16.3' N 14° 45.8' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	23 7	4	Green round tower, pillar and gallery; 18.	
OTOK MOLAT:							
12832 <i>E 3092</i>	-Rt Vranac.	44° 15.9' N 14° 48.4' E	Fl.W. period 2s fl. 0.3s, ec. 1.7s	43 13	5	White conical metal tower; 26.	
12835 <i>E 3090.5</i>	-Rt Tureta.	44° 15.8' N 14° 47.3' E	Fl.(2)W.R. period 4s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2s	26 8	4	Red tower with gallery, concrete base; 16.	R. 242°-024°, W.-041°, R.-082°.
12836 <i>E 3093</i>	-Rt Bonaster, Otok Molat, SW. point.	44° 12.0' N 14° 50.6' 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	39 12	9	White pyramidal stone tower; 20.	
12844 <i>E 3094.4</i>	-Otocic Golac, on N. shore.	44° 11.4' N 14° 51.0' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	39 12	6	White metal tower; 16.	Visible 066°-280°.
12848 <i>E 3097.4</i>	-Otocic Trata.	44° 12.8' N 14° 55.2' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	33 10	6	Red metal tower with post; 20.	
12852 <i>E 3096</i>	-Otocic Vrtlac.	44° 12.1' N 14° 55.8' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	23 7	5	White metal tower; 16.	
12856 <i>E 3095</i>	-Otocic Tun Mali.	44° 11.5' N 14° 54.1' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	27 8	3	Red metal tower; 16.	
12860 <i>E 3097</i>	-Otok Tun Veli.	44° 11.4' N 14° 54.5' E	Fl.W.G. period 5s fl. 0.5s, ec. 4.5s	88 27	W. 7 G. 4	White conical metal tower; 23.	W. 213°-223°, 092°-099°30', G. elsewhere.
DUGI OTOK:							
12864 <i>E 3098</i>	-Rt Veli Rat.	44° 09.0' N 14° 49.4' E	Fl.(2)W. period 20s fl. 0.8s, ec. 4.4s fl. 0.8s, ec. 14s	134 41	22	Brown tower, dwelling and gallery; 118.	Reserve light range 10M.
12868 <i>E 3099</i>	-Zaliv Pantera, Rt Tanki.	44° 09.1' N 14° 50.9' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	23 7	3	Red tower, column and gallery; 20.	Visible 189°-120°. Fl.G. 3s 6m 3M beacon marks entrance NE.
12870 <i>E 3099.5</i>	-Zverinacki Kanal.	44° 10.3' N 14° 52.7' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	21 6	4	White round concrete tower, column and gallery, concrete base; 16.	Visible 132°-318°.
12872 <i>E 3134</i>	-Otocic Sestrice.	43° 51.2' N 15° 12.5' E	Fl.W. period 8s fl. 1s, ec. 7s	154 47	20	White tower, red spiral stripes and dwelling; 85.	Reserve light range 12M.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CROATIA							
12874 <i>E 3133.5</i>	-Rt Vidilica.	43° 52.0' N 15° 12.0' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	33 10	3	Red tower; 20.	Visible 180°-355°.
12874.5 <i>E 3133</i>	-Hrid Skoljic.	43° 53.0' N 15° 12.6' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	20 6	3	Green tower, column and gallery on submerged base; 16.	Visible 014°-216°.
12875 <i>E 3132.8</i>	-Rt Proversa.	43° 53.3' N 15° 12.6' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	30 9	3	Red tower; 20.	
12875.5 <i>E 3132.5</i>	-Rt Cuska.	43° 53.8' N 15° 13.5' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	30 9	3	Red tower; 20.	Visible 180°-028°.
SREDNJI KANAL:							
-Dugi Otok:							
12876 <i>E 3100</i>	--Bozava, on Rt Sv. Nedjela.	44° 08.5' N 14° 54.9' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	26 8	4	White tower, column and gallery; 16.	
12877 <i>E 3121.3</i>	--Otocic Utra.	44° 05.3' N 14° 59.5' E	Fl.(2)G. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	23 7	4	Green tower, column and gallery; 20.	
12878 <i>E 3121.5</i>	--Rt Kamik.	44° 05.2' N 15° 00.0' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	26 8	3	Red tower, gallery; 16.	
12879 <i>E 3121.7</i>	--Lucina.	44° 05.0' N 15° 00.2' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Red tower with pillar and gallery; 16.	
12880 <i>E 3122</i>	--Brbinj, on Rt Koromasnjak.	44° 04.5' N 15° 00.8' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	28 8	4	White tower, column and gallery; 20.	
12884 <i>E 3120</i>	-Otok Rava, on Rt Garmina.	44° 01.4' N 15° 03.6' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	20 6	4	Green tower, column and gallery; 16.	
12888 <i>E 3119</i>	-Otocic Maslinovac.	44° 00.2' N 15° 05.7' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	95 29	4	White metal tower and post; 16.	
12892 <i>E 3124</i>	--Uvala Zmancisca.	43° 58.3' N 15° 07.3' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	20 6	4	Green round tower, column and gallery; 18.	
12897 <i>E 3127</i>	--Harbor, E. head.	43° 56.2' N 15° 10.0' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Green round metal tower, pillar and gallery; 18.	
12898 <i>E 3127.4</i>	---N. side of reef.	43° 57.0' N 15° 09.0' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	33 10	4	Red round tower; 18.	
12902 <i>E 3131</i>	--S. breakwater, head.	43° 56.1' N 15° 10.4' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	23 7	3	Red tower, pillar and gallery.	
12904 <i>E 3132</i>	-Otok Lavdara.	43° 56.8' N 15° 12.0' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	26 8	5	White tower, column and gallery; 20.	Visible 005°-276°.
12906 <i>E 3132.3</i>	-Otocic Lavdara.	43° 54.9' N 15° 13.9' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	33 10	8	White tower; 20.	
12908 <i>E 3106</i>	--Otocic Tri Sestrice, on SE. islet.	44° 10.3' N 15° 01.9' E	Fl.(2)W.R. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	52 16	W. R. 8 6	Square stone tower and dwelling; 52.	R. 225°-234°, W. elsewhere.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CROATIA							
12912 <i>E 3107</i>	--Otok Rivanj, on Rt Zanavin.	44° 10.0' N 15° 01.5' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	26 8	4	White metal tower; 16.	Visible 349°-209°.
12916 <i>E 3107.2</i>	---Harbor, mole, head.	44° 09.2' N 15° 02.1' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	23 7	4	White metal tower; 16.	
12918 <i>E 3107.5</i>	-Rt Rivanjski.	44° 08.5' N 15° 03.4' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	26 8	4	Red tower, column and gallery tower; 20.	Visible 172°-091°.
12920 <i>E 3108</i>	--Otok Sestrunj, on Rt Trska.	44° 08.8' N 15° 01.7' 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	33 10	10	Square stone tower; 26.	Obscured from 323° by Otocica Parenak.
12922 <i>E 3121</i>	--Plicina Beli.	44° 05.3' N 15° 02.5' E	Fl.(3)W. period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4.5s	23 7	6	White tower, column and gallery; 20.	Obscured 267°-326°.
12924 <i>E 3110</i>	--Iz Veli.	44° 03.1' N 15° 07.0' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	20 6	4	Red tower, column and gallery; 16.	
12928 <i>E 3112</i>	--Uvala Komaseva, mole, head.	44° 01.7' N 15° 08.7' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	20 6	4	Red round tower, column and gallery; 16.	
12932 <i>E 3115</i>	-Otocic Mrtovnjak.	44° 00.7' N 15° 10.8' E	Fl.(2)R. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	89 27	7	White metal tower; 16.	
12936 <i>E 3116</i>	-Otocic Karantunic.	44° 00.5' N 15° 14.7' E	Fl.(3)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 4.5s	98 30	9	Red round tower; 18.	
12938 <i>E 3116.3</i>	-Shoal beacon.	43° 56.8' N 15° 15.5' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	20 6	3	ISOLATED DANGER BRB, mast, topmark.	
12940 <i>E 3116.2</i>	-Otocic Balabra Vela.	43° 56.7' N 15° 17.1' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	33 10	5	Square stone tower; 13.	Visible 090°-313°.
12944 <i>E 3116.4</i>	-Hrid Galigolica.	43° 52.7' N 15° 22.5' E	Fl.(2)R. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	36 11	7	Square stone tower; 26.	Visible 155°-325°.
12948 <i>E 3117</i>	-Otocic Kosara, W. head.	43° 53.0' N 15° 24.4' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	36 11	11	White tower, column and gallery on pedestal; 23.	
12950	-Otocic Zizanj.	43° 52.8' N 15° 26.3' E	Q.(3)W. period 10s	20 6	3	E. CARDINAL BYB, beacon, topmark; 16.	
12952 <i>E 3106.4</i>	-Plicina Sajda.	44° 11.2' N 15° 02.4' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	10 3	5	ISOLATED DANGER BRB, tower, topmark.	
12954 <i>E 3150</i>	-Rt Sveti Petar.	44° 09.5' N 15° 03.8' E	Fl.(2)G. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	23 7	4	Green tower, column and gallery on submerged base; 20.	Visible 020°-302°.
12954.5 <i>E 3151</i>	--Rt Sveti Petar, SW.	44° 09.2' N 15° 03.5' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	23 7	3	Green tower, column and gallery on submerged base; 20.	Visible 344°-200°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CROATIA							
12956 <i>E 3152</i>	-Ugljan.	44° 07.8' N 15° 06.3' E	Fl.(2)R. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	20 6	4	Red tower, column and gallery; 16.	Visible 220°-286° and 352°- 090°.
12960 <i>E 3154</i>	--Lukoran, quay, N. head.	44° 06.3' N 15° 09.4' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	20 6	3	Red tower, column and gallery; 16.	Obscured 168°-018°.
12964 <i>E 3156</i>	--Sutomiscica, on Rt Sveti Grgur.	44° 06.1' N 15° 10.4' E	Fl.(2)R. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	23 7	4	Red tower on submerged base; 20.	
12968 <i>E 3157</i>	--Poljana, on the shoal.	44° 05.5' N 15° 11.6' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	23 7	3	Green tower, column and gallery on submerged base; 16.	
12972 <i>E 3158</i>	--Preko, breakwater, head.	44° 04.9' N 15° 11.4' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Red tower, column and gallery; 16.	Visible 205°-125°.
12976 <i>E 3160</i>	--Otocic Osiljak, NE. point.	44° 04.8' N 15° 13.0' 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	36 11	8	Red tower on submerged base; 30.	
12980 <i>E 3164</i>	--Kali, E. mole, head.	44° 04.0' N 15° 12.4' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	23 7	3	Red tower with column and gallery; 16.	
12984 <i>E 3165</i>	--Gazemica.	44° 05.2' N 15° 16.2' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	23 7	4	Round tower, column and gallery; 16.	
12985 <i>E 3166</i>	--Kukijica.	44° 02.1' N 15° 15.4' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	23 7	4	Green tower, column and gallery; 16.	
12986 <i>E 3167</i>	---Mole, head.	44° 02.0' N 15° 15.1' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	23 7	4	Red tower, column and gallery; 16.	
12988 <i>E 3140</i>	-Luka Petrcane, on Rt Radman.	44° 10.9' N 15° 09.6' E	Fl.W.R. period 3s fl. 0.3s, ec. 2.7s	20 6	W. R. 7 4	Square masonry tower; 16.	R. 141°-262°, W. elsewhere.
12992 <i>E 3142</i>	-Ostri Rat.	44° 07.8' N 15° 12.5' E	Fl.(3)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6.5s	46 14	15	Stone tower, spinal staircase; 46.	Reserve light range 7M.
12996 <i>E 3144</i>	-Zadar, breakwater, head.	44° 07.2' N 15° 13.8' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	20 6	4	Masonry tower, red cupola; 16.	
13000 <i>E 3148</i>	--Istarske Obala, NW. side.	44° 07.2' N 15° 13.6' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	20 6	4	Masonry tower, green cupola; 16.	
13003 <i>E 3167.5</i>	-Otocic Misnjak.	44° 01.6' N 15° 15.9' E	Fl.(2)W. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	23 7	8	White tower, gallery on submerged base; 20.	
13004 <i>E 3168</i>	-Sukosan, on Rt Podvara.	44° 02.7' N 15° 17.9' E	Fl.W.R. period 5s fl. 0.5s, ec. 4.5s	20 6	W. R. 8 5	White square tower on submerged base; 16.	R. 207°-318°, W. elsewhere.
PASMANSKI KANAL:							
-Otok Pasman:							
13010 <i>E 3172</i>	--Nevidane.	43° 58.8' N 15° 20.9' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	23 7	4	Red tower, column and gallery; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CROATIA							
13012 <i>E 3179</i>	--Luka Pasman, E. mole, head.	43° 57.4' N 15° 23.6' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	26 8	4	Green round tower, column and gallery; 16.	
13016 <i>E 3174</i>	-Otocic Galesnjak, shoal on S. side.	43° 58.5' N 15° 23.4' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	23 7	4	Green tower, column and gallery on submerged base; 16.	
13020 <i>E 3175</i>	-Otocic Ricul, S. point.	43° 58.5' N 15° 23.7' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	26 8	5	White tower, column and gallery; 16.	
13024 <i>E 3176</i>	-Otocic Kormonik, NE. point.	43° 58.1' N 15° 24.0' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Red tower, column and gallery on submerged base; 16.	
13028 <i>E 3177</i>	-Plicina Minerva.	43° 57.9' N 15° 24.6' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	23 7	4	Green tower, column and gallery on submerged base; 16.	
13029 <i>E 3178</i>	-Turanj.	43° 57.9' N 15° 24.8' E	Fl.(2)G. period 5s fl. 0.3s, ec. 1s fl. 0.3s, ec. 3.4s	23 7	4	Green tower, column and gallery; 16.	
13032 <i>E 3180</i>	-Otocic Babac, W. point.	43° 57.4' N 15° 24.0' E	Fl.(2)W. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	23 7	10	Masonry tower on hut; 20.	Reserve light range 7M.
13036 <i>E 3181</i>	--E. point.	43° 57.3' N 15° 25.0' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Red tower, column and gallery on submerged base; 16.	
13040 <i>E 3183</i>	-Plicina Kocerka.	43° 57.2' N 15° 25.6' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	23 7	4	Green metal tower, column and gallery on submerged; 16.	
13044 <i>E 3184</i>	-Otocic Planac, N. point.	43° 56.3' N 15° 26.0' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Red metal tower.	Obscured 321°-051° by Otocic Sv. Katerina.
13048 <i>E 3186</i>	-Otocic Cavatul, off NE. extremity.	43° 56.4' N 15° 25.1' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	28 9	4	Green narrow tower, gallery on submerged base; 26.	
13052 <i>E 3185</i>	-Biograd, NW. mole, head.	43° 56.2' N 15° 26.6' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	23 7	5	White metal tower; 16.	
13056 <i>E 3188</i>	-Otocic Sv. Katarina, SW. point.	43° 55.9' N 15° 26.0' E	Fl.(2)W. period 8s fl. 0.5s, ec. 2s fl. 0.5s, ec. 5s	28 9	8	White round tower on concrete base; 16.	Visible 309°-142°.
13058 <i>E 3191</i>	-Tkon.	43° 55.3' N 15° 25.6' E	Fl.(2)R. period 5s fl. 0.3s, ec. 1s fl. 0.3s, ec. 3.4s	23 7	4	Red tower, pillar and gallery; 16.	
13060 <i>E 3193</i>	-Otocic Ostarje, island, S. side.	43° 54.7' N 15° 28.4' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	23 7	7	White metal tower, gallery on submerged base; 16.	Visible 292°-140°.
13062 <i>E 3194</i>	-Pakostane.	43° 54.3' N 15° 30.8' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	23 7	4	Green tower, pillar and gallery; 16.	
13063 <i>E 3197</i>	Vrgada.	43° 51.5' N 15° 30.2' E	Fl.(2)R. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	23 7	3	Red tower, pillar and gallery; 20.	Obscured 290°-343°, 155°-183°.
13064 <i>E 3196</i>	Otocici Artice.	43° 52.0' N 15° 31.9' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	24 7	7	White round tower, gallery on pedestal; 20.	Visible 302°-228°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CROATIA							
PIROVACKI ZALIV:							
13068 E 3205	-Plicina Kusija.	43° 51.6' N 15° 33.4' E	Q.(6)+L.FI.W. period 15s	20 6	5	S. CARDINAL YB, tower.	
13072 E 3214	-Pirovac, quay, S. head.	43° 49.1' N 15° 40.3' E	FI.G. period 3s fl. 0.5s, ec. 2.5s	20 6	3	Green tower, column and gallery; 16.	
13076 E 3202	Otocic Prisnjak, near W. extremity.	43° 49.6' N 15° 33.8' E	FI.(3)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 4.5s	62 19	9	Stone tower; 49.	Visible 249°-146°.
13080 E 3200	Hrid Misine (Kamicac).	43° 48.8' N 15° 34.2' E	FI.R. period 3s fl. 0.3s, ec. 2.7s	29 9	5	Red tower, column and gallery on pedestal; 16.	
13084 E 3206	-Hramina, head of mole, N. side of Otok Murter.	43° 49.4' N 15° 35.7' E	FI.R. period 3s fl. 0.3s, ec. 2.7s	23 7	2	Red tower, column and gallery; 16.	
13088 E 3204	-Otocic Tegina, NE. point.	43° 50.2' N 15° 35.7' E	FI.W. period 2s fl. 0.3s, ec. 1.7s	23 7	4	White round tower, metal column and gallery on pedestal; 16.	
MURTERSKI KANAL:							
13092 E 3208	-Betina, landing mole, head.	43° 49.3' N 15° 36.6' E	FI.G. period 5s fl. 0.5s, ec. 4.5s	23 7	3	Green round tower, column and gallery; 18.	
13096 E 3212	-Rt Rat.	43° 49.5' N 15° 36.6' E	FI.W. period 5s fl. 0.5s, ec. 4.5s	32 10	5	White tower; 30.	
13104 E 3218	--Mole, head.	43° 47.8' N 15° 39.0' E	FI.R. period 5s fl. 0.5s, ec. 4.5s	23 7	4	Red tower, column and gallery; 16.	
13112 E 3234	-Greben Bacvica.	43° 44.9' N 15° 42.1' E	FI.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	26 8	3	ISOLATED DANGER BRB, tower, topmark; 16.	
13116	-Plicina Mijoka Buoy.	43° 45.3' N 15° 39.9' E	FI.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s		5	ISOLATED DANGER BRB, pillar, topmark.	
13120 E 3220	-Otocic Maslinjak.	43° 46.1' N 15° 41.0' E	FI.G. period 3s fl. 0.3s, ec. 2.7s	57 17	3	White conical tower, gallery; 23.	Visible 282°-195°.
13124 E 3219	Rt Murteric, SW. side of Otok Murter.	43° 46.6' N 15° 37.6' E	FI.G. period 3s fl. 0.3s, ec. 2.7s	62 19	3	White tower, column and gallery; 20.	
13128 E 3224	Otocic Kukuljari, E. islet.	43° 45.6' N 15° 38.3' E	FI.W. period 5s fl. 0.5s, ec. 4.5s	36 11	10	White tower, column and gallery on concrete base; 40.	
13132 E 3222	Sv. Nikola, head of mole (Otok Murter).	43° 46.6' N 15° 38.1' E	FI.G. period 5s fl. 0.3s, ec. 4.7s	16 5	4	Green tower, column and gallery; 13.	
13136 E 3225	Otok Smokvica Vela, island, N. point.	43° 44.1' N 15° 28.6' E	FI.R. period 3s fl. 0.3s, ec. 2.7s	43 13	5	White square stone tower; 26.	
13138 E 3225.1	Otocic Babina Guzica.	43° 42.6' N 15° 29.3' E	FI.(2)G. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	23 7	5	Green tower; 20.	Obscured 140°-215°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CROATIA							
13140 <i>E 3225.2</i>	Otocic Mrtovnjak.	43° 42.5' N 15° 32.4' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	39 12	10	Quadrangular stone tower; 26.	
13142 <i>E 3225.3</i>	Cavlin Shoal.	43° 44.5' N 15° 33.7' E	Fl.(2)W. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	23 7	6	ISOLATED DANGER BRB, beacon, topmark; 20.	
13143 <i>E 3229.75</i>	Hrid Mala Mare.	43° 42.8' N 15° 38.0' E	Fl.(2)W. period 8s fl. 0.5s, ec. 2s fl. 0.5s, ec. 5s	26 8	5	ISOLATED DANGER BRB, beacon, topmark; 20.	
APPROACHES TO SIBENIK:							
13144 <i>E 3231</i>	-Otok Tijat, on Rt Tijascica.	43° 42.4' N 15° 46.6' E	Fl.(3)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 4.5s	42 13	7	Stone tower; 26.	Visible 265°-128°.
13148 <i>E 3230.5</i>	Obonjon.	43° 40.7' N 15° 47.4' E	Fl.(3)R. period 7s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3.5s	20 6	4	Red tower column and gallery; 16.	
13152 <i>E 3230</i>	Plicina Sestre, in Zlarinski Kanal.	43° 41.1' N 15° 48.9' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	26 8	4	ISOLATED DANGER BRB, tower, topmark; 16.	
13156 <i>E 3240</i>	-Otok Prvic, Uvala Prvicluka, mole, head.	43° 43.4' N 15° 48.1' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	23 7	3	Green tower, pillar and gallery; 16.	
13160 <i>E 3238</i>	--Pivic Sepurive, mole, head.	43° 44.0' N 15° 47.3' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	20 6	3	Green tower, column and gallery; 16.	Visible 337°-129°.
LUKA SIBENIK:							
-Sibenski Kanal:							
13164 <i>E 3232</i>	--Tribunj.	43° 45.2' N 15° 44.7' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	23 7	3	Green tower with column and gallery; 16.	
13164.4 <i>E 3232.5</i>	---Breakwater, head.	43° 45.1' N 15° 44.8' E	Fl.(2)G. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	20 6	4	Green tower, column and gallery; 16.	Visible 273°-136°.
13168 <i>E 3236</i>	--Vodice, S. mole, head.	43° 45.4' N 15° 46.7' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	23 7	3	Red tower, column and gallery; 16.	Obscured 033°-096°.
-Sibenska Vrata:							
13172 <i>E 3244</i>	--Luka Zlarin, mole, head.	43° 42.0' N 15° 50.2' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	26 8	2	White square tower, column with gallery; 23.	
13176 <i>E 3243</i>	--Rt Konj, Otok Lupac, SE. point.	43° 42.9' N 15° 49.0' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	26 8	2	Red tower, column and gallery; 16.	
13180 <i>E 3242</i>	--Plicina Rozenik.	43° 42.8' N 15° 49.8' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	23 7	6	Green tower, column and gallery on submerged base; 16.	
13184 <i>E 3248</i>	--Rt Jadrija, entrance, N. side.	43° 43.3' N 15° 51.1' E	Fl.(2)R. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	36 11	9	Stone tower, gallery and dwelling; 39.	Visible 160°-098°. Reserve light range 6M. Nautophone: 2 bl. ev. 20s.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CROATIA							
-Kanal Sv Ante:							
13188 <i>E 3250</i>	--Hrid Rocni, entrance, S. side.	43° 43.2' N 15° 51.4' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Green tower, column and gallery on submerged base; 16.	
13192 <i>E 3251</i>	--Fort Sv. Nikola, NW. side.	43° 43.0' N 15° 51.0' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	19 6	4	Green round tower; 13.	Visible 045°-234°.
13196 <i>E 3256</i>	--Rt Debeli, N. side.	43° 43.5' N 15° 51.6' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	21 6	1	Red tower, column and gallery on submerged base; 16.	Visible 240°-050°.
13200 <i>E 3252</i>	--Rt Senisna, S. shore.	43° 43.5' N 15° 51.6' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	26 8	1	Green round tower, gallery on submerged base; 23.	
13204 <i>E 3260</i>	--Rt Svet Ante, S. shore.	43° 43.6' N 15° 52.4' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	29 9	4	Green round tower with gallery on pedestal; 23.	
13208 <i>E 3262</i>	--Rt Svet Kriz, N. shore.	43° 43.7' N 15° 52.8' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	23 7	1	Red round tower with gallery on pedestal; 16.	Visible in Luka Sibenik 243°-027°.
13212 <i>E 3258</i>	--Rt Baba, N. shore.	43° 43.7' N 15° 52.4' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	20 6	1	Red tower, column and gallery; 16.	
13216 <i>E 3263</i>	--Rt Juzni Turan, S. shore.	43° 43.7' N 15° 53.2' E	Fl.(2)G. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	26 8	3	Green metal tower, column and gallery; 16.	
13220 <i>E 3264</i>	--Plicini Paklena.	43° 43.7' N 15° 53.2' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	19 6	3	Green tower, column and gallery on submerged base; 16.	
13224 <i>E 3266</i>	-Sibenik, on Gata Krk.	43° 44.0' N 15° 53.6' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	23 7	4	White tower, column and gallery; 16.	
13230 <i>E 3265.5</i>	-Sipad.	43° 43.3' N 15° 54.2' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	23 7	3	Red tower, column and gallery; 16.	
13232 <i>E 3267</i>	-Gata Martinska, S. corner.	43° 44.3' N 15° 52.7' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	20 6	2	Red tower with column and gallery; 16.	Rijecka Krka is marked by lights shown from shore points.
13234 <i>E 3267.5</i>	-Rt. Vela Kapela.	43° 45.8' N 15° 51.1' E	Fl.G. period 2s fl. 0.3s, ec. 2.7s	23 7	3	Green round tower, column; 10.	
SIBENSKI KANAL:							
13236 <i>E 3277</i>	-Plicina Krapanj.	43° 41.2' N 15° 54.1' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	23 7	2	Red tower, column and gallery on submerged base; 16.	Visible 080°-313°.
13240 <i>E 3278</i>	-Otok Kraprnj, mole, head.	43° 40.4' N 15° 55.4' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	21 6	2	Red tower, column and gallery; 16.	Visible 134°-356°.
13248 <i>E 3279</i>	-Otok Krbela Vela, SE. point.	43° 39.4' N 15° 55.3' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	23 7	4	Red tower column and gallery; 16.	Visible 147°-057°.
13252 <i>E 3280</i>	-Rt Ostrica Vela.	43° 38.9' N 15° 54.4' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	30 9	3	White tower, column and gallery; 16.	
13256 <i>E 3276</i>	-Otocic Dvainka, NW. point.	43° 39.4' N 15° 53.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	25 8	8	Square stone tower; 16.	Visible 326°-172°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CROATIA							
13258 E 3276.6	-Zablace, breakwater, head.	43° 42.3' N 15° 52.2' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	20 6	4	Green tower, column and gallery; 16.	
13259 E 3276.7	--Solaris Marina.	43° 41.9' N 15° 52.6' E	Fl.(2)G. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	20 6	3	Green column on pedestal; 16.	
13260 E 3275	-Rt Rat, Otok Zlarin, SE. extremity.	43° 39.6' N 15° 52.4' E	Fl.(2)W. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	39 12	6	Square stone tower; 26.	Visible 180°-045°.
13264 E 3275.5	-Otocic Drvenik.	43° 40.3' N 15° 52.8' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	20 6	4	White tower, column and gallery; 16.	
13268 E 3274	Otocic Komorica, S. entrance to Zlarinski Kanal.	43° 39.0' N 15° 50.7' E	Fl.(2)R. period 8s fl. 0.5s, ec. 2s fl. 0.5s, ec. 5s	36 11	5	White tower, gallery; 23.	Visible 080°-328°.
13272 E 3229.5	Otok Zmajan, on Rt Sir.	43° 40.9' N 15° 46.6' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	33 10	2	White square tower on pedestal; 16.	
13276 E 3228.5	Otok Kaprije, on Rt Lemes.	43° 40.2' N 15° 43.6' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	26 8	3	White square tower on pedestal; 13.	
13280 E 3229	-Luka Kaprije, quay, head.	43° 41.4' N 15° 42.8' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	21 6	3	White tower, column and gallery; 20.	
13284 E 3229.7	Otok Kakan, SE. extremity.	43° 40.8' N 15° 41.9' E	Fl.(2)R. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	26 8	4	White square tower on pedestal; 13.	
13286 E 3226.5	Otocic Raparasnjak.	43° 40.9' N 15° 35.2' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	69 21	7	White tower; 16.	Obscured 334°-350°.
13288 E 3229.8	Brak Prascica.	43° 40.5' N 15° 38.9' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	20 6	7	ISOLATED DANGER BRB, tower, topmark; 13.	
13292 E 3227	Otok Zirje, on Rt Muna.	43° 40.0' N 15° 39.7' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	30 9	2	Red tower, column with gallery; 16.	Fl.G. 3s 4M shown 300 meters S.
13296 E 3229.2	Otocic Ravan.	43° 39.6' N 15° 44.5' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	39 12	10	Quadrangular stone tower; 26.	
13298 E 3227.7	-Rasohe.	43° 37.6' N 15° 43.9' E	Fl.(2)R. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	23 7	5	Red beacon; 20.	Visible 188°-061°.
13300 E 3228	Otocic Hrbosnjak.	43° 38.8' N 15° 44.5' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	81 25	5	Red tower, gallery; 16.	
13304 E 3226	Otocic Blitvenica.	43° 37.5' N 15° 34.8' E	Fl.(2)W. period 30s fl. 1.2s, ec. 6.6s fl. 1.2s, ec. 21s	125 38	24	Stone tower, dwelling; 69.	Reserve light range 12M.
13308 E 3283	Primosten, mole, head.	43° 35.1' N 15° 55.2' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	26 8	3	Red square tower, column and gallery; 23.	
13312 E 3284	-Vojske, on W. mole, head.	43° 35.1' N 15° 56.0' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	23 7	3	Red tower, column and gallery; 16.	Visible 259°-154°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CROATIA							
13316 <i>E 3282</i>	-Rt Kremik.	43° 34.5' N 15° 55.0' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	33 10	8	White tower; 26.	Visible 339°-205°.
13318 <i>E 3285.5</i>	--SE. point.	43° 33.9' N 15° 56.0' E	Fl.(2)R. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	39 12	3	Red tower on pedestal; 16.	Obscured 110°-220°.
13319 <i>E 3285.51</i>	Rt Zecevo.	43° 33.5' N 15° 55.5' E	Fl.(2)G. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	20 6	3	Green tower on pedestal; 16.	Visible 357°-248°.
13320 <i>E 3285</i>	Plicina Peles, on reef.	43° 33.9' N 15° 54.6' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	26 8	5	Red tower, column and gallery; 23.	
13322 <i>E 3286.5</i>	Greban Grbavac.	43° 33.6' N 15° 53.0' E	Fl.(2)W. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	23 7	7	ISOLATED DANGER BRB, tower, topmark; 16.	
13324 <i>E 3286</i>	Hrid Mulo.	43° 30.9' N 15° 55.4' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	75 23	21	Masonry tower attached to dwelling; 58.	Reserve light range 12M.
LUKA ROGOZNICA:							
13328 <i>E 3288</i>	-Rt Gradina.	43° 31.3' N 15° 58.0' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	50 15	4	Red square tower; 13.	Visible 248°-173°.
13332 <i>E 3290</i>	-Uvala Razanj, entrance, E. side.	43° 30.7' N 15° 58.8' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	22 7	3	Red tower, column and gallery; 20.	Visible 128°-144°.
13336 <i>E 3287</i>	-Hrid Kalebinjak, E. of Otocic Smokvica.	43° 30.8' N 15° 57.1' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	23 7	3	ISOLATED DANGER BRB, tower, topmark; 13.	
13340 <i>E 3292</i>	-Pier, outer head.	43° 31.6' N 15° 58.5' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	23 7	3	Green tower, column and gallery; 16.	
13344 <i>E 3293</i>	Otocic Muljica.	43° 28.4' N 16° 01.0' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	49 15	5	White tower, column and gallery; 16.	
13346 <i>E 3292.5</i>	Rt Ploca.	43° 29.6' N 15° 58.1' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	30 9	5	Green tower, gallery on pedestal; 26.	Visible 288°-198°.
DRVENICKI KANAL:							
13348 <i>E 3294</i>	-Otocic Velika Murvica.	43° 28.0' N 16° 03.4' E	L.Fl.R. period 8s fl. 2s, ec. 6s	49 15	7	Square stone tower, dwelling; 23.	Reserve light range 6M. Siren: 1 bl. ev. 30s (bl. 4s, si. 26s).
13352 <i>E 3295</i>	-Otok Drvenik Mali, on Rt Pasika.	43° 27.3' N 16° 04.6' 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	36 11	7	Square stone tower on pedestal; 33.	
-Otok Drvenik Mali:							
13356 <i>E 3295.4</i>	--Uvala Borak, pier.	43° 27.0' N 16° 05.5' E	Fl.W.R. period 3s fl. 0.3s, ec. 2.7s	20 6	W. 4 R. 2	White tower, column and gallery; 16.	W. 028°-252°, R.-258°, W.- 298°.
13358 <i>E 3295.7</i>	-Otocic Malta.	43° 27.2' N 16° 06.7' E	Fl.(2)W. period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6s	36 11	5	White tower, gallery; 23.	

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CROATIA							
13360 <i>E 3296</i>	-Luka Drvenik, E. shore.	43° 27.0' N 16° 08.7' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	20 6	4	Red tower, column and gallery; 16.	
13364 <i>E 3297</i>	-Rt Artatur.	43° 28.7' N 16° 08.1' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	26 8	4	Square stone tower on pedestal; 13.	
TROGIRSKI ZALIV:							
13368 <i>E 3298</i>	-Hrid Galera.	43° 28.3' N 16° 11.5' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	26 8	10	White tower on pedestal; 16.	
13370 <i>E 3331.5</i>	-Plicina Mlin.	43° 27.0' N 16° 14.4' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	23 7	8	ISOLATED DANGER BRB, beacon, topmark.	
13372 <i>E 3299</i>	-Balkun, rock, entrance.	43° 28.5' N 16° 12.2' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	26 8	3	Red tower on pedestal; 16.	
13376 <i>E 3299.4</i>	-Zaporinovac, islet, entrance.	43° 28.7' N 16° 12.9' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Green tower on pedestal; 16.	
13380 <i>E 3300</i>	-Rt Okruk.	43° 29.8' N 16° 12.4' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	20 6	5	Green tower on submerged base; 16.	
13384 <i>E 3302</i>	-Hrid Celice.	43° 30.0' N 16° 12.0' E	Fl.(3)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 4.5s	49 15	6	White conical tower, gallery on pedestal; 23.	
13388 <i>E 3304</i>	-Zaliv Marina, Rt Pasji Rat.	43° 30.6' N 16° 08.1' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	25 8	4	White conical tower, gallery on pedestal; 23.	
13392 <i>E 3306</i>	-Pier.	43° 30.8' N 16° 06.7' E	Fl.(2)G. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	23 7	4	Green tower with column and gallery; 16.	
13396 <i>E 3308</i>	-Rt Cubrijan, Trogirski Kanal, entrance, S. side.	43° 30.7' N 16° 14.6' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	26 8	4	Green tower, column and gallery; 16.	
13400 <i>E 3314</i>	-Slatine, mole, head.	43° 30.0' N 16° 20.4' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	20 6	3	Red tower, column and gallery; 16.	
LUKA SPLIT:							
13408 <i>E 3349</i>	-Breakwater, head.	43° 30.1' N 16° 26.2' E	L.Fl.G. period 6s fl. 2s, ec. 4s	36 11	10	Green tower with gallery on house; 33.	Obscured 252°-285°. 2 F.R. in line 334° mark pipeline 0.4 mile E. Reserve light range 5M. Siren: 1 bl. ev. 30s (bl. 4s, si. 26s).
13416 <i>E 3350</i>	-W. breakwater, head.	43° 30.0' N 16° 26.1' E	Fl.R. period 6s fl. 0.5s, ec. 5.5s	29 9	5	Red round tower with gallery; 20.	Visible 139°-020°.
13418 <i>E 3351</i>	-Inner breakwater.	43° 30.3' N 16° 25.8' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	20 6	3	Red structure, column and glass control building; 16.	Visible 016°-312°.
13420 <i>E 3354</i>	-Gat Sv Petra.	43° 30.3' N 16° 26.3' E	Fl.(3)W. period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4.5s	30 9	3	White tower; 26.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CROATIA							
13424 E 3356	-Gat Listopada, SW. corner.	43° 30.4' N 16° 26.5' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	26 8	4	White square tower, column and gallery; 16.	
13426 E 3348	-Zenta, E. mole, head.	43° 30.0' N 16° 27.5' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	30 9	4	White post on concrete base; 23.	Obscured 165°-263°.
13427 E 3331.2	-Rt Ciovo.	43° 29.3' N 16° 23.5' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	30 9	7	White tower with gallery on concrete base; 23.	
KASTELANSKI ZALIV:							
13428 E 3331	-Rt Marjan, E. entrance point, mole, head.	43° 30.5' N 16° 23.6' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	25 8	6	Green square stone tower, column and gallery; 20.	Visible 290°-210°.
13432 E 3316	-Divulje, mole, head.	43° 31.5' N 16° 17.7' E	Fl.G. period 5s fl. 1s, ec. 4s	23 7	4	Green tower with column; 16.	
13433 E 3316.5	-Breakwater, head.	43° 31.7' N 16° 18.1' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	20 6	4	Green tower, column and gallery; 16.	
13434 E 3318	Kastel Stari.	43° 33.0' N 16° 21.0' E	Fl.(2)G. period 4s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2s	20 6	4	Green tower with gallery; 16.	
13436 E 3327	-Lora, N. breakwater, head.	43° 31.7' N 16° 25.7' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	23 7	3	Stone tower, red gallery; 16.	
13440 E 3328	--W. breakwater, head.	43° 31.6' N 16° 25.7' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	23 7	3	Stone tower, green gallery; 16.	
13444 E 3328.4	-Hrid Skoljic.	43° 31.3' N 16° 25.2' E	Fl.(2)G. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	24 7	4	Green tower; 7.	
13446 E 3328.6	-Poljud, N. pier.	43° 31.3' N 16° 25.4' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	20 6	3	White tower with gallery; 16.	
13448 E 3323	-Hridi Galija.	43° 31.9' N 16° 25.3' E	Fl.R.G. period 3s fl. 0.3s, ec. 2.7s	26 8	R. G. 4 3	Round structure; 28.	G. 061°-103°, R.-061°.
13452 E 3324	-Plicina Silo, NE. of Rt Rat.	43° 31.9' N 16° 26.1' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	23 7	7	ISOLATED DANGER BRB, tower, topmark.	
13464 E 3325	-On rock SW. of Otocic Barbarinac.	43° 32.1' N 16° 27.0' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	33 10	5	Red tower with column and gallery on stone base; 20.	
13467 E 3320.1	-Kastel marina, breakwater.	43° 32.7' N 16° 23.9' E	Fl.(2)G. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	20 6	3	Green column; 16.	Visible 359°-318°.
13468 E 3326	-Vranjic, landing place, W. corner.	43° 31.8' N 16° 28.4' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	24 7	4	Red column with post and gallery; 16.	
13472 E 3325.4	-Uvala Supaval, point, E. entrance.	43° 31.9' N 16° 27.0' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	16 5	4	Green tower; 3.	
13476 E 3330	-Luka Poljud, pier.	43° 31.3' N 16° 25.7' E	Fl.G.	13 4	3	Green column; 10.	F.R. light shown from head of pier about 0.2 km. eastward.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CROATIA							
BRACKI KANAL:							
13478 <i>E 3357</i>	Uvala Stobrec, Strozanac.	43° 30.0' N 16° 32.0' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	20 6	4	Green tower; 13.	Obscured 063°-356°.
13484 <i>E 3360</i>	-Kriko, W. mole, head.	43° 27.6' N 16° 36.1' E	Fl.G.R. period 3s fl. 0.3s, ec. 2.7s	21 6	2	Green column and gallery; 16.	R. 012°-307°, G.-012°.
13486 <i>E 3361</i>	-Dugi Rat.	43° 26.5' N 16° 38.6' E	Fl.(2)G. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	23 7	3	Green tower with pillar and gallery; 16.	
13492 <i>E 3376</i>	--Mole, head.	43° 26.4' N 16° 41.9' E	Fl.W.G. period 3s fl. 0.3s, ec. 2.7s	21 6	W. G. 4 2	Green round tower, column and gallery; 16.	G. 334°-038°, W. elsewhere.
13496 <i>E 3378</i>	-Kutlesa, mole, head.	43° 24.2' N 16° 48.6' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	19 6	4	Green tower, column and gallery; 16.	
13502 <i>E 3386</i>	-Soline-Brela, breakwater, head.	43° 21.9' N 16° 55.7' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	21 6	4	White tower, column and gallery; 16.	
13504 <i>E 3387</i>	-Baska Voda, breakwater, head.	43° 21.4' N 16° 56.7' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	23 7	5	Red tower, column and gallery; 16.	
SPLITSKI KANAL:							
-Otok Solta:							
13508 <i>E 3332</i>	--Luka Maslinica (Novsko Zdrilo), on Rt Sv. Nicola.	43° 23.9' N 16° 12.5' E	Fl.W.R. period 3s fl. 0.5s, ec. 2.5s	34 10	W. R. 7 4	Square stone tower with cupola; 23.	R. 011°-056°, W.-011°.
13509 <i>E 3331.9</i>	--Otocic Stipanska.	43° 24.4' N 16° 10.1' E	Fl.(2)G. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	26 8	6	Green column; 16.	Obscured 255°-355°.
13510 <i>E 3333</i>	--Rogac.	43° 23.8' N 16° 18.0' E	Fl.(2)W. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	26 8	3	White tower, column and gallery; 16.	
13512 <i>E 3334</i>	---Rt Bad.	43° 24.0' N 16° 18.6' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	26 8	4	Red tower and gallery; 20.	Visible 018°-288°.
13514 <i>E 3334.5</i>	--Necujam.	43° 23.7' N 16° 19.6' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	30 9	5	White tower with gallery on concrete base; 23.	Visible 026°-305°.
13516 <i>E 3336</i>	--Uvala Stomorska, entrance, E. side.	43° 22.5' N 16° 21.4' E	Fl.(2)R. period 5s fl. 0.3s, ec. 1s fl. 0.3s, ec. 3.4s	36 11	3	Red tower with pillar and gallery; 16.	
13520 <i>E 3338</i>	-Rt Livka.	43° 19.8' N 16° 24.2' E	Fl.(2)W. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	37 11	8	Red tower and structure on white hut; 33.	Visible 168°-058°.
13524 <i>E 3340</i>	-Otok Mrduja.	43° 20.3' N 16° 24.9' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	46 14	4	White tower, column and gallery; 20.	
13528 <i>E 3342</i>	-Rt Razanj, Otok Brac, W. head.	43° 19.2' N 16° 24.5' E	Fl.W. period 5s fl. 1s, ec. 4s	56 17	13	Hexagonal stone tower and dwelling; 46.	Visible 340°-175°. Reserve light range 8M. Siren: 2 bl. ev. 42s (bl. 4s, si. 4s, bl. 4s, si. 30s).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CROATIA							
13532 E 3344	-Milna, on Rt Bijaka.	43° 19.9' N 16° 26.3' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	26 8	3	White square tower and gallery; 26.	
13536 E 3346	--Inner port, entrance.	43° 19.6' N 16° 27.1' E	Fl.(2)R. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	23 7	4	Red tower, column and gallery; 16.	
BRACKI KANAL (OTOK BRAC):							
13540 E 3364	-Sutivan, SW. angle of mole, head.	43° 23.2' N 16° 29.0' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	21 6	2	Red metal column; 17.	
13544 E 3366.2	-Supetar, mole, head.	43° 23.0' N 16° 33.0' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	23 7	5	Red round metal tower, pillar and gallery; 18.	
13545 E 3366	--Old mole, head.	43° 23.2' N 16° 33.2' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	23 7	4	White tower; 20.	Visible 307°-207°.
13548 E 3368	-Uvala Splitska, entrance, E. side.	43° 22.8' N 16° 36.5' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	21 6	2	Red metal tower; 18.	
13552 E 3370	-Postire, mole, head.	43° 22.7' N 16° 37.8' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	23 7	3	Stone tower; 20.	Visible 326°-259°.
13556 E 3380	-Luka Pucisca, on Rt Sv. Nikola.	43° 21.7' N 16° 44.3' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	66 20	8	Square tower, dwelling alongside; 37.	
13560 E 3384	-Rt Povelja.	43° 20.4' N 16° 50.0' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	24 7	7	Square masonry tower; 17.	
13564 E 3392	-Rt Rascatna.	43° 18.8' N 16° 54.2' 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	41 12	8	White masonry tower; 26.	
HVARSKI KANAL (OTOK BRAC):							
13568 E 3396	-Luka Sumartin, entrance, E. side.	43° 16.8' N 16° 52.6' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	26 8	7	White masonry tower, near dwelling; 20.	
13572 E 3398	--W. side of entrance, breakwater, head.	43° 17.1' N 16° 52.3' E	Fl.(3)W. period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4.5s	30 9	3	White tower, column and gallery; 26.	
13576 E 3400	-Bol, mole, head.	43° 15.6' N 16° 39.7' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	24 7	3	White square masonry tower; 23.	
13580 E 3388	-Makarska, Poluotocica Sveta Petar, W. head.	43° 17.7' N 17° 00.7' E	Fl.W. period 5s fl. 1s, ec. 4s	52 16	11	Square masonry tower, dwelling; 46.	Visible 321°-141°. Reserve light range 7M.
13584 E 3390	--Mole, head.	43° 17.6' N 17° 01.3' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	23 7	4	White tower, pillar and gallery; 16.	
13586 E 3393	-Tučepi.	43° 16.2' N 17° 03.4' E	Fl.R. period 5s fl. 1s, ec. 4s	23 7	4	Red round tower with column and gallery; 16.	
13588 E 3394	-Uvala Podgora, mole, head.	43° 14.6' N 17° 04.5' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	23 7	4	Red tower, column and gallery; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CROATIA							
13590 <i>E 3395</i>	-Drvenik.	43° 09.2' N 17° 15.0' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	16 5	3	Green round tower; 13.	
13591 <i>E 3493</i>	-Gradac, breakwater, head.	43° 06.2' N 17° 20.5' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	20 6	4	Red tower; 16.	Visible 133°-098°.
PAKLENI KANAL:							
13592 <i>E 3431.5</i>	-Pakleni Otoci, on Otocic Vodnjak Veli, islet, SW. part.	43° 10.1' N 16° 19.0' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	102 31	9	Stone tower; 26.	
-Otok Hvar:							
13596 <i>E 3404</i>	--Rt Pelegrin.	43° 11.7' N 16° 22.3' E	Fl.(3)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 4.5s	69 21	8	Stone tower on pedestal; 26.	
13598 <i>E 3405</i>	--Hrid Baba.	43° 10.1' N 16° 23.8' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	23 7	4	ISOLATED DANGER BRB, tower, topmark; 16.	
13600 <i>E 3406</i>	--Otocic Galisnik.	43° 10.0' N 16° 26.6' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	36 11	5	Square stone tower and gallery; 20.	
13604 <i>E 3408</i>	--Luka Hvar, quay, S. corner.	43° 10.2' N 16° 26.8' E	Fl.(2)G. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	19 6	4	Green tower, column and gallery; 16.	
13608 <i>E 3409</i>	--Sv. Jerolim.	43° 09.6' N 16° 26.6' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	39 12	4	Red tower, column and gallery; 16.	
13612 <i>E 3410</i>	--Otocic Pokonji Dol.	43° 09.4' N 16° 27.4' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	66 20	10	Square stone tower on dwelling; 49.	
HVARSKI KANAL:							
13616 <i>E 3412</i>	--Uvala Pribinja, Rt Galijola, W. entrance point.	43° 12.0' N 16° 25.9' E	Fl.W. period 2s fl. 0.3s, ec. 1.7s	26 8	6	White column; 16.	
13620 <i>E 3412.4</i>	---Nezadovoljan, peninsula, head.	43° 11.7' N 16° 25.7' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	26 8	3	Red tower, column and gallery on pedestal; 16.	
13624 <i>E 3412.6</i>	---Vira, mole, head.	43° 11.0' N 16° 26.0' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	12 4	3	White round tower; 7.	
13628 <i>E 3418</i>	--Rt Kabal.	43° 13.5' N 16° 31.5' E	Fl.(2)W. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	52 16	7	White tower, column and gallery; 20.	Visible 324°-227°.
13632 <i>E 3414</i>	--Stari Grad, on Rt Fortin.	43° 11.1' N 16° 35.5' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	29 9	4	Green tower with column gallery on white support; 23.	
13636 <i>E 3413</i>	--Stari Grad, ferry landing.	43° 10.9' N 16° 34.9' E	Fl.(2)G. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	23 7	4	Green tower and gallery; 16.	Obscured 020°-109°.
13638 <i>E 3413.1</i>	---W. pier.	43° 10.9' N 16° 34.8' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	20 6	4	White tower, column and gallery; 16.	
13640 <i>E 3416</i>	--Mole.	43° 11.1' N 16° 36.0' E	Fl.G.	19 6	3	Green column; 17.	

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CROATIA							
13642 <i>E 3419</i>	--Rt Travna.	43° 14.1' N 16° 33.7' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	26 8	7	White tower with gallery on concrete base; 23.	Visible 082°-276°.
13644 <i>E 3426</i>	--Otocic Zecevo, E. point.	43° 11.5' N 16° 42.1' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	36 11	5	Stone tower, concrete base; 20.	
13648 <i>E 3420</i>	--Vrboska, on Rt Kriz.	43° 10.6' N 16° 41.5' E	Fl.W. period 2s fl. 0.3s, ec. 1.7s	18 5	5	Iron post on white concrete hut; 16.	
13652 <i>E 3422</i>	---Quay.	43° 10.8' N 16° 40.7' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	16 5	3	Red column on stone fort; 13.	
13656 <i>E 3428</i>	--Jelsa, N. mole, head.	43° 09.9' N 16° 41.9' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	23 7	4	Stone tower, cupola; 20.	
13660 <i>E 3431</i>	---S. mole.	43° 10.0' N 16° 42.4' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	20 6	5	Red iron tower and post; 16.	
13664 <i>E 3490</i>	--Rt Sucuraj.	43° 07.5' N 17° 12.2' E	Iso.W. period 4s	46 14	11	Square stone tower and dwelling; 46.	Reserve light range 7M.
OTOK VIS:							
13668 <i>E 3492</i>	--Luka Sucuraj, mole, head.	43° 07.4' N 17° 11.6' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	20 6	3	Red iron column; 10.	
13672 <i>E 3432</i>	-Rt Stoncica.	43° 04.4' N 16° 15.6' E	Fl.W. period 15s fl. 0.7s, ec. 14.3s	125 38	30	Stone tower on dwelling; 92.	Visible 110°-357°. Reserve light range 12M. Signal station.
13676 <i>E 3434</i>	-Hrid Krava.	43° 04.7' N 16° 13.5' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	23 7	4	White tower, gallery on pedestal; 16.	
13680 <i>E 3436</i>	-Viska Luka, on Otocic Host.	43° 04.6' N 16° 12.6' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	70 21	8	Stone tower and dwelling; 36.	
HVARSKI KANAL:							
13684 <i>E 3438</i>	-Prirovo.	43° 03.7' N 16° 11.6' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	21 6	3	Green tower, column and gallery; 16.	
13688 <i>E 3439</i>	-Hridi Volici.	43° 05.2' N 16° 11.9' E	Fl.W. period 2s fl. 0.3s, ec. 1.7s	26 8	6	White tower, gallery on pedestal; 16.	
13692 <i>E 3440</i>	-Otocic Mali Barjak.	43° 03.2' N 16° 02.7' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	43 13	8	White square stone tower; 26.	
13696 <i>E 3442</i>	-Komiza, breakwater, head.	43° 02.7' N 16° 05.4' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	20 6	4	Green tower, gallery and column; 16.	
13700 <i>E 3443</i>	-Rt Stupisce.	43° 00.4' N 16° 04.3' E	Fl.(3)W. period 12s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 6.5s	59 18	10	Square stone tower; 26.	Reserve light range 7M.
13704 <i>E 3444</i>	-Otok Bisevo Kobila.	42° 59.2' N 16° 01.5' E	Fl.(2)R. period 10s fl. 1s, ec. 3s fl. 1s, ec. 5s	59 18	11	Red tower and gallery; 16.	Reserve light range 7M.
13708 <i>E 3445</i>	-Hridi Lukavci.	43° 05.0' N 16° 35.2' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	46 14	5	White stone tower; 26.	

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CROATIA							
13712 <i>E 3446</i>	-Otok Scedro.	43° 05.1' N 16° 40.3' E	Fl.W.R. period 6s fl. 0.5s, ec. 5.5s	68 21	W. 10 R. 6	Square stone tower, concrete base; 32.	R. 087°-094.5°, W.-087°.
13716 <i>E 3448</i>	-Luka Lovisce, entrance, E. side.	43° 05.8' N 16° 42.4' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	33 10	3	Red iron tower; 18.	
13720 <i>E 3450</i>	-Otocic Plocica, NW. extremity.	43° 01.8' N 16° 49.2' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	82 25	10	Iron tower on dwelling; 82.	
13724 <i>E 3451</i>	-Prigradica, mole, head.	42° 58.0' N 16° 48.9' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	21 6	3	Red metal tower and mast; 18.	
NERETVANSKI KANAL:							
13732 <i>E 3500.5</i>	-Rt. Visnjica, S. side.	43° 02.3' N 17° 25.2' E	Fl.(2)W. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	43 13	7	Red tower, column and gallery; 16.	
13736 <i>E 3501</i>	--NE. side.	43° 02.5' N 17° 25.4' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	39 12	2	Red tower, column and gallery; 16.	
-Luka Kardejevo:							
13740 <i>E 3501.2</i>	--Rt Bad.	43° 02.8' N 17° 25.5' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	30 9	2	Red four-sided pyramid; 12.	
13744 <i>E 3501.4</i>	--Gata Oslobodenja, W. head.	43° 02.9' N 17° 25.6' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	20 6	3	Green tower with column and gallery; 16.	
13746 <i>E 3501.6</i>	--Rt. Zminjac.	43° 03.1' N 17° 25.8' E	Fl.(2)R. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	16 5	3	Red tower; 13.	Obscured 138°-250°.
13748 <i>E 3499.3</i>	-Kanal Vlaska, N. mole.	43° 01.8' N 17° 25.4' E	Fl.(2)R. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	23 7	4	Red column; 13.	Visible 237°-062°.
13748.5 <i>E 3499.5</i>	--Oil terminal.	43° 02.0' N 17° 25.9' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	20 6	3	Red tower; 13.	Visible 232°-056°.
13749 <i>E 3499.2</i>	--S. mole.	43° 01.7' N 17° 25.5' E	Fl.(2)G. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	23 7	4	Green column on submerged base; 13.	Visible 061°-232°.
-Neretva:							
13752 <i>E 3502</i>	--N. mole, head.	43° 01.2' N 17° 27.0' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	20 6	4	Red column on red hexagonal hut; 16.	River to Metkovic marked by Fl.G. 3s lights to starboard and Fl.R. 3s lights to port.
13756 <i>E 3502.2</i>	--S. mole, head.	43° 01.1' N 17° 26.9' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	16 5	5	Green hut and column; 13.	
-Uvala Blaca:							
13764 <i>E 3516</i>	--Otocic Mali Skojic.	42° 59.9' N 17° 28.6' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	20 6	3	Red tower, column and gallery; 16.	Visible 178°-088°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CROATIA							
KANAL MALOG STONA:							
13772 E 3526	-Rt Celjen.	42° 52.1' N 17° 41.0' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	33 10		6 White tower, column and gallery on pedestal; 16.	
13776 E 3528	-Rt Mirina (Mirna).	42° 51.5' N 17° 41.6' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	23 7		3 White tower, column and gallery; 16.	
13780 E 3530	-Plicina Vranjak (Greda), shoal, N. side.	42° 51.4' N 17° 41.9' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	21 6		1 Red tower, column and gallery on submerged base; 16.	
13784 E 3531	-Otocic Skoljic.	42° 51.2' N 17° 42.5' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	21 6		1 Green tower, column and gallery on concrete base; 16.	
13788 E 3532	-Rt Mali Voz.	42° 51.1' N 17° 42.7' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	21 6		1 Red tower, column and gallery; 16.	
13792 E 3521	-Rt Rep Kieka.	42° 56.0' N 17° 33.3' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	26 8		5 White round tower with gallery; 16.	
13796 E 3521.3	-Hrid Lopata.	42° 56.1' N 17° 34.3' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	20 6		4 Green tower, gallery on submerged base; 16.	
13800 E 3521.5	-Luka Neum.	42° 55.2' N 17° 37.0' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	20 6		4 Red tower, column and gallery; 16.	
13804 E 3522	-Rt Blaca.	42° 55.5' N 17° 31.4' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	30 9		8 White tower, column and gallery on pedestal; 23.	Visible 127°-285°.
NERETVANSKI KANAL (POLUOTOK PELJESAC):							
13808 E 3520	-Luka Drace, NE. mole, head.	42° 55.7' N 17° 27.3' E	Fl.W.R. period 3s fl. 0.5s, ec. 2.5s	23 7	W. R.	4 White tower with column; 16. 2	R. 197°-243°, W.-197°.
13810	-Crkvice.	42° 58.5' N 17° 22.4' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	23 7		3 Green tower; 23.	
13812 E 3496	-Trpanj, E. breakwater, head.	43° 00.7' N 17° 16.2' E	Fl.R. period 4s fl. 0.3s, ec. 3.7s	16 5		4 Red tower; 16.	
13813 E 3498	--Floodgate, head.	43° 00.6' N 17° 16.1' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	26 8		2 White tower, column and gallery; 23.	Visible 103°-135°.
13814 E 3488.5	-Duba.	43° 01.5' N 17° 10.2' E	Fl.(2)R. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	20 6		4 Red tower; 16.	
KORCULANSKI KANAL:							
13820 E 3488	-Rt Lovisce, Poluotok Peljesac, NW. point.	43° 02.8' N 17° 00.3' E	Fl.(3)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6.5s	33 10		10 White square stone tower with gallery on pedestal; 30.	Visible 357°-258°.
13824 E 3487	-Uvala Luka (Lovisce).	43° 01.5' N 17° 01.6' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	30 9		3 Red tower, column and gallery; 16.	Visible 243°-113°.
13828 E 3486.5	-Rt Osicac, Poluotok Peljesac, SW. point.	43° 00.6' N 17° 00.6' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	30 9		8 White octagonal concrete tower; 25.	Visible 322°-270°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CROATIA							
PELJESKI KANAL:							
13832 <i>E 3470</i>	-Otocic Kneza Vela, NE. side.	42° 58.9' N 17° 03.5' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	43 13	8	Stone tower; 20.	
13834 <i>E 3470.5</i>	-Kucisce.	42° 58.8' N 17° 07.0' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	16 5	3	White tower; 16.	
13836 <i>E 3471</i>	-Rt Sv. Ivan.	42° 59.1' N 17° 04.3' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	39 12	4	White tower, column and gallery; 16.	
13840 <i>E 3476</i>	-Luka Korcula, mole, head.	42° 57.8' N 17° 08.4' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	23 7	4	Red square tower, column and gallery; 23.	
13844 <i>E 3477</i>	-Wharf, NE. corner, E. of harbor.	42° 57.6' N 17° 08.3' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	23 7	2	Green round tower with gallery; 16.	
13848 <i>E 3478</i>	-Badija.	42° 57.3' N 17° 09.2' E	Fl.(2)G. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	23 7	4	White round tower, white concrete base; 16.	
13852 <i>E 3479</i>	-Korcula.	42° 57.2' N 17° 09.2' E	Fl.(2)R. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	23 7	3	Red round tower; 16.	
13856 <i>E 3480</i>	-Luka Orebic, mole, head.	42° 58.4' N 17° 10.8' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	25 8	3	Green square tower, column and gallery; 23.	
13860 <i>E 3481</i>	-Otocic Stupe Velike, W. head.	42° 57.8' N 17° 11.4' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	29 9	3	Red tower, column and gallery; 16.	Visible 085°-261°.
13864 <i>E 3482</i>	-Otocici Sestrice, NW. islet.	42° 57.8' N 17° 12.7' 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	58 18	11	Stone tower and dwelling; 39.	
LASTOVSKI KANAL:							
13872 <i>E 3486</i>	-Rt Rasnjic, Otok Korcula, SE. point.	42° 55.0' N 17° 12.4' E	Fl.W. period 6s fl. 1s, ec. 5s	43 13	9	White square tower; 26.	
13876 <i>E 3463</i>	-Rt Veli Zaglav.	42° 53.7' N 16° 51.2' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	43 13	7	White iron tower and mast; 18.	
13878 <i>E 3464</i>	-Brna.	42° 54.3' N 16° 51.6' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Red tower; 16.	Visible 025°-224°.
ZALIV VELA LUKA:							
13884 <i>E 3461</i>	-Rt Velo Dance, Otok Korcula, SW. point.	42° 56.0' N 16° 38.0' E	Fl.(3)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6.5s	39 12	11	White stone tower; 20.	
13888 <i>E 3454</i>	-Otocic Kamenjak, S. side.	42° 58.1' N 16° 39.6' E	Fl.(2)R. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	32 10	4	White hexagonal masonry tower; 23.	Visible 233°-163°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CROATIA							
13892 E 3458	-Rt Vranac.	42° 57.7' N 16° 42.7' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	24 7	2	Stone pyramidal tower and red gallery; 20.	Visible 011°-101°.
13896 E 3460	-Vela Luka, pier, W. head.	42° 57.7' N 16° 43.1' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	21 6	2	Green tower, column and gallery; 16.	
13900 E 3452	-Otocic Proizd, island, off W. head.	42° 59.0' N 16° 36.6' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	38 12	11	Stone tower; 26.	Obscured 229°-290°.
13904 E 3538	Otok Susac.	42° 45.0' N 16° 29.7' E	Fl.(2)W. period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 12s	308 94	24	Square stone tower on dwelling; 56.	Visible 253°-213°. Reserve light range 12M.
OTOK LASTOVO:							
13908 E 3545	-Skrivena Luka, on Rt Strazica.	42° 43.8' N 16° 53.4' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	26 8	3	Red iron tower with mast; 20.	
13912 E 3544	-Rt Struga.	42° 43.4' N 16° 53.3' E	Fl.W. period 10s fl. 0.6s, ec. 9.4s	344 105	27	White round stone tower on dwelling; 75.	Visible 259°-095°. Reserve light range 12M.
13920 E 3548	-Luka Velji Lago, Otocic Prezba, SE. point.	42° 45.2' N 16° 49.2' E	Fl.W.R. period 5s fl. 0.5s, ec. 4.5s	59 18	W. 8 R. 5	White tower, column and gallery on pedestal; 26.	W. 023°-045°, obsc.-067°, W.-084°, obsc.-235°, R.-023°.
13932 E 3546	-Ubli (Sv. Petar), port, SE. extremity.	42° 44.7' N 16° 49.8' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	26 8	2	Red iron tower on post; 23.	
13936 E 3552	-Hrid Pod Mrcaru, islet, center.	42° 46.8' N 16° 46.8' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	75 23	9	White round iron tower with post and gallery on concrete base; 22.	
13938 E 3553	-Entrance.	42° 46.5' N 16° 52.7' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	30 9	5	Red tower, column and gallery; 16.	Visible 350°-243°.
13940 E 3551	Otocic Tajan Velji.	42° 48.9' N 16° 59.6' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	66 20	8	Square stone tower; 20.	
13944 E 3554	Otocic Glavat.	42° 45.9' N 17° 09.0' E	Fl.(5)W. period 30s fl. 0.4s, ec. 3.4s fl. 0.4s, ec. 3.4s fl. 0.4s, ec. 3.4s fl. 0.4s, ec. 3.4s fl. 0.4s, ec. 14.4s	148 45	22	Octagonal masonry tower on dwelling; 84.	Visible 120°-070°. Reserve light range 12M.
MLJETSKI KANAL:							
-Otok Mljet:							
13947 E 3535.5	--Rt Goli.	42° 47.7' N 17° 19.7' E	Fl.(3)W.R. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6.5s	39 12	W. 8 R. 5	White tower on pedestal; 36.	W. 060°-237°, R.-060°.
13947.5	--Maslinovac rock.	42° 48.3' N 17° 22.8' E	Fl.(2)W. period 5s	20 6	3	ISOLATED DANGER BRB, beacon, topmark; 16.	
13948 E 3536	--Luka Polace, on Hrid Kula.	42° 47.2' N 17° 26.2' E	Fl.W. period 2s fl. 0.3s, ec. 1.7s	36 11	6	White tower on pedestal; 36.	
13952 E 3537	--Luka Sovra, Rt Pusti.	42° 44.6' N 17° 37.1' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	47 14	7	White tower; 33.	Visible 156°-043°. Fl.R. 3s marks head of ferry jetty.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CROATIA							
13956 <i>E 3537.4</i>	--Luka Okuklje, Rt Stoba.	42° 43.7' N 17° 41.1' E	Fl.(2)W. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	32 10	6	White tower, column and gallery on pedestal; 16.	
13960 <i>E 3537.5</i>	---Point of land in harbor.	42° 43.6' N 17° 40.6' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	24 7	1	Green tower, column and gallery on submerged base; 16.	
13964 <i>E 3537.6</i>	--Harbor, head.	42° 43.7' N 17° 40.5' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	13 4	1	Green tower; 6.	
	-Poluotok Peljesac:						
13968 <i>E 3556</i>	--Trstenik, mole, head.	42° 54.9' N 17° 23.9' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	20 6	3	Red tower with column and gallery; 16.	
13975 <i>E 3558</i>	--Zuljana, mole, head.	42° 53.5' N 17° 27.1' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	20 6	4	Green tower with pillar and gallery; 16.	Obscured 015°-078°.
13980 <i>E 3560</i>	-Otocic Lirica.	42° 52.4' N 17° 25.5' E	L.Fl.W. period 10s fl. 2s, ec. 8s	112 34	9	White tower on pedestal; 45.	Visible 293°-210°.
13982 <i>E 3560.5</i>	-Prapratno, head.	42° 48.7' N 17° 40.6' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	26 8	4	Green tower and gallery; 20.	
	KOLOCEPSKI KANAL:						
13984 <i>E 3561</i>	-Otocic Olipa.	42° 45.5' N 17° 46.9' E	Fl.(3)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 4.5s	102 31	10	Square stone tower; 36.	Visible 253°-104°.
13988 <i>E 3562</i>	-Otocic Tajan, island, NW extremity.	42° 45.6' N 17° 48.0' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	30 9	4	Red tower, column and gallery; 16.	Visible 061°-268°.
13990 <i>E 3564</i>	-Rt. Grbljava (Pologrin).	42° 47.3' N 17° 47.0' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	36 11	7	White tower, column and gallery on pedestal; 16.	
	-Stonski Kanal:						
13992 <i>E 3566</i>	--Broce, mole, head.	42° 49.2' N 17° 43.2' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	20 6	4	Red tower; 16.	Channel to Ston lighted by beacons and buoys.
13996 <i>E 3570</i>	--Ston, mole, head.	42° 50.0' N 17° 42.2' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	20 6	2	Red tower; 16.	
	MLJETSKI KANAL:						
14000 <i>E 3575</i>	-Doli, mole, head.	42° 48.4' N 17° 47.7' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	16 5	3	Red tower, column and gallery; 16.	
14004 <i>E 3580</i>	-Slano, on Rt Donji.	42° 46.6' N 17° 52.4' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	52 16	4	Stone tower, column and gallery on dwelling; 13.	
14008 <i>E 3582</i>	--On quay.	42° 47.1' N 17° 53.4' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	23 7	3	Green tower with column gallery; 16.	
14012 <i>E 3584</i>	-Trsteno.	42° 42.7' N 17° 58.4' E	Fl.(3)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 4.5s	33 10	6	White tower, column and gallery on pedestal; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CROATIA							
-Otok Sipan:							
14016 <i>E 3576</i>	--Rt Tiha.	42° 45.4' N 17° 51.4' E	Fl.(2)W. period 8s fl. 0.5s, ec. 2s fl. 0.5s, ec. 5s	46 14	9	Metal framework tower on white metal tower; 36.	Visible 117°-305°.
14020 <i>E 3578</i>	--Luka, mole, head.	42° 43.8' N 17° 51.8' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	23 7	3	Red tower with column and gallery; 16.	
14024 <i>E 3590</i>	-Otocic Sv. Andrija.	42° 39.0' N 17° 57.0' E	Fl.W. period 15s fl. 0.8s, ec. 14.2s	226 69	24	Square tower on dwelling; 56.	Reserve light range 12M.
14028 <i>E 3592</i>	-Otok Lopud, mole, head.	42° 41.5' N 17° 56.7' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Red tower, column and gallery; 16.	
14030 <i>E 3579</i>	-Sudurad, S. mole, head.	42° 42.6' N 17° 55.0' E	Fl.(2)W.R. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	23 7	W. 4 R. 2	White tower, column and gallery; 16.	R. 235°-275°.
14031 <i>E 3595.5</i>	-Donje Cove.	42° 40.8' N 18° 00.3' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	20 6	4	White tower, column and gallery; 23.	Visible 262°-142°.
14032 <i>E 3595</i>	-Otok Kalocep, on Rt Gornji.	42° 39.7' N 18° 01.5' E	Fl.(2)W. period 8s fl. 0.5s, ec. 2s fl. 0.5s, ec. 5s	59 18	4	Conical stone tower and gallery; 20.	
14036 <i>E 3596</i>	-Vuka Zaton, on Rt Bat.	42° 41.1' N 18° 03.0' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	62 19	4	Red tower, column and gallery; 20.	
14040 <i>E 3598</i>	Hridi Grebeni, W. rock.	42° 39.1' N 18° 03.2' E	Fl.(3)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 4.5s	87 27	10	Square tower on dwelling; 43.	
14042 <i>E 3599</i>	Hrid Seka velika.	42° 39.1' N 18° 03.5' E	Q.(9)W. period 15s	16 5	3	W. CARDINAL YBY, beacon, topmark; 13.	
14044 <i>E 3600</i>	Otocic Daska, N. head.	42° 40.2' N 18° 03.3' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	23 7	10	White tower; 13.	Visible 023°-295°.
14048 <i>E 3604</i>	Rijeka Dubrovacka, at Mokosica.	42° 40.3' N 18° 05.9' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	20 6	4	White square tower, red column on submerged base; 19.	
14050 <i>E 3601</i>	-Bridge, N. head.	42° 40.1' N 18° 04.7' E	Fl.(2)R. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	30 9	4	Red tower, column and gallery; 16.	
14050.5 <i>E 3601.7</i>	--Center.	42° 40.1' N 18° 04.8' E	Iso.W. period 2s	164 50	5	Green Structure.	
14051 <i>E 3601.5</i>	--S. head.	42° 40.0' N 18° 04.8' E	Fl.(2)G. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	23 7	4	Green tower, column and gallery; 16.	Reserve light range 10M.
14052 <i>E 3602</i>	Gruz, on Rt Kantafig.	42° 40.0' N 18° 04.7' E	Fl.W. period 2s fl. 0.3s, ec. 1.7s	23 7	5	White tower, column and gallery; 16.	Obscured 247°-325°.
14056 <i>E 3602.1</i>	-Gat Petka.	42° 39.5' N 18° 05.2' E	Fl.(2)R. period 4s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2s	25 8	3	Red square tower, column and gallery; 23.	
14060 <i>E 3610</i>	Dubrovnik, mole, head.	42° 38.4' N 18° 06.8' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	26 8	4	Red square tower, column and gallery; 23.	Obscured 327°-357°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CROATIA							
14064 E 3612	-Mole, head.	42° 38.4' N 18° 07.0' E	F.W.G.	17 5	2	White column; 13.	G. 254°-305°, W.-254°.
KOLOCEPSKI KANAL:							
14068 E 3613	-Srebreno, breakwater.	42° 37.2' N 18° 12.1' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	20 6	2	Red iron tower with post; 16.	
14076 E 3613.7	-Zupski Zaliv, Plat, on pier, head.	42° 36.0' N 18° 14.0' E	F.G.	23 7	4	Green round metal tower with gallery; 16.	
14084 E 3614.5	-About 366 meters S. of extremity of Rt Sveti Roko.	42° 35.1' N 18° 12.5' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	26 8	8	ISOLATED DANGER BRB, tower, topmark; 20.	
14088 E 3614	Cavtat.	42° 35.0' N 18° 13.0' E	Fl.W.R.G. period 2s fl. 0.3s, ec. 1.7s	33 10	W. 6 R. 4 G. 3	White tower, column and gallery; 16.	W. 053°-083°, R.-110°, W.- 129°, G.-158°.
14092 E 3616	Luka Mali Molunat.	42° 26.9' N 18° 26.6' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	26 8	6	White metal column with gallery; 16.	
BOKA KOTORSKA:							
14096 E 3615	-Otocic Molunst.	42° 26.5' N 18° 26.1' E	Fl.(3)W. period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9.5s	112 34	8	White iron tower with gallery; 13.	
14100 E 3620	-Ostri Rt.	42° 23.6' N 18° 32.2' E	L.Fl.(2)W. period 10s fl. 2s, ec. 2s fl. 2s, ec. 4s	240 73	15	Red tower on house; 7.	Reserve light range 10M.
14104 E 3622	-Otocic Mamula.	42° 23.8' N 18° 33.8' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	112 34	6	Tower, red column and gallery; 26.	
14108 E 3623	--Luka Rose, quay, W. head.	42° 25.7' N 18° 33.7' E	F.G.	16 5	2	Green iron post; 14.	
-Hercegnovski Zaliv:							
14112 E 3624	--Herceg Novi, S. mole, head.	42° 27.0' N 18° 32.4' E	Fl.(2)G. period 5s fl. 0.5s, ec. 4.5s	31 9	5	Stone obelisk; 23.	
14116 E 3628	--Zelenika, quay, NW. corner.	42° 27.0' N 18° 34.7' E	Fl.R. period 3s fl. 1s, ec. 2s	30 9	4	White round tower with column and gallery on concrete hut; 18.	Visible 315°-135°.
14120 E 3630	--Pristan.	42° 25.5' N 18° 36.5' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	22 7	5	Green metal tower; 20.	
-Kumborski Tjesnac:							
14124 E 3632	--Denovici, breakwater, head.	42° 26.0' N 18° 36.6' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	45 14	6	Red metal tripod; 6.	
-Tivatski Zaliv:							
14128 E 3648	--Donji Krasici, on mole.	42° 24.5' N 18° 39.5' E	F.G.	16 5	2	White metal post; 13.	
14132 E 3647	--Bejelila (Oko), pier, NW. corner.	42° 24.3' N 18° 40.3' E	F.G.	19 6	4	White tower, black bands; 16.	Obscured 216°-245° over Plicina Tunja.
14136 E 3646	-Zucovac, quay, S. corner.	42° 24.2' N 18° 41.4' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	23 7	2	Green iron tower with post; 16.	Visible 168°-135°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CROATIA							
14140 E 3645	--Plicina Tunja (Jezicac).	42° 24.9' N 18° 41.0' E	Fl.(2)W.R. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	26 8	W. R.	6 4	White stone pyramidal tower; 23. R. 274°-014°, W.-274°.
14142 E 3644.5	--Plicina Kalimanj.	42° 25.5' N 18° 42.0' E	Fl.R. period 4s	20 6		3	White round tower, red stripes and platform; 16.
14144 E 3644	--Luka Kaliman.	42° 25.6' N 18° 42.3' E	FR.	20 6		4	Red column; 16.
14148 E 3639	--Tivat, Mole I, head.	42° 25.9' N 18° 41.7' E	Fl.W.R. period 3s fl. 0.3s, ec. 2.7s	26 8	W. R.	6 3	Black and white iron tower; 23. R. 140°-167°, W.-140°.
14152 E 3643	--Stanicic, mole.	42° 25.8' N 18° 42.0' E	Fl.(2)R. period 6s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 4.5s	21 6		3	White round tower, red diagonal stripe; 16.
14156 E 3638	--Rt Seljanovo.	42° 26.3' N 18° 41.1' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	23 7		5	White tower, red stripes on pedestal; 20.
14160 E 3637	--Donja Lastva, quay.	42° 26.8' N 18° 41.5' E	FR.	22 7		4	Red iron column; 19.
	-Tjesnac Verige:						
14164 E 3652	--Rt Sveti Nedlja.	42° 27.6' N 18° 40.8' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	24 7		5	White iron tower; 23.
14168 E 3654	--Rt Opatovo.	42° 27.6' N 18° 41.2' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	30 9		4	Square stone tower; 26.
14172 E 3656	--Kamenari, mole, head.	42° 28.1' N 18° 40.8' E	FR.	19 6		4	Red metal post; 13.
14176 E 3655	--Lepetane, wharf, head.	42° 28.2' N 18° 41.4' E	FG.	20 6		3	Green metal post; 16.
14180 E 3658	--Rt Turski.	42° 28.8' N 18° 41.5' E	Fl.(2)W. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	28 9		6	White conical iron tower; 26.
	-Tivatski Zaliv:						
14184 E 3660	--Rt Gospa.	42° 28.7' N 18° 41.7' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	23 7		4	White iron construction on concrete block; 20.
	-Risanski (Morinjski) Zaliv:						
14188 E 3661	--Kostanjica, breakwater, head.	42° 29.2' N 18° 40.3' E	FR.	13 4		3	White pyramidal structure; 13. Private light.
14192 E 3662	--Morinj.	42° 29.5' N 18° 39.3' E	FG.	13 4		4	Green iron column; 10.
14193 E 3662.4	--Lipci, dike, head.	42° 29.8' N 18° 39.8' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	23 7		3	Green round metal tower, pillar and gallery; 18.
14196 E 3664	--Perast, on quay.	42° 29.2' N 18° 42.1' E	FR.	16 5		2	Red iron column; 13. Visible 304°-124°.
14200 E 3663	--Risan, mole, head.	42° 30.8' N 18° 41.9' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	22 7		2	White round tower, column and gallery; 16.
	-Kotorski Zaliv:						
14204 E 3666	--Donji Stoliv, mole, head.	42° 28.4' N 18° 43.0' E	FG.	16 5		2	White metal column; 14.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CROATIA							
14208 <i>E 3670</i>	--Sv. Stasije, Dobrota.	42° 28.1' N 18° 46.1' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	20 6	6	White iron tower with mast; 16.	
14212 <i>E 3674</i>	--Quay, N.	42° 27.2' N 18° 45.2' E	Fl.(3)G. period 7s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 4.5s	20 6	3	White round tower, black stripes; 16.	
14216 <i>E 3676</i>	---Rt Rdakova.	42° 27.0' N 18° 45.5' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	26 8	6	White iron tower with post; 23.	
14220 <i>E 3678</i>	--Muo, mole, head.	42° 26.1' N 18° 45.7' E	F.G.	16 5	1	Green metal column; 13.	
14224 <i>E 3682</i>	--Kotor.	42° 25.6' N 18° 46.3' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	26 8	5	Stone obelisk with gallery; 23.	

Section 10

Montenegro, Albania, and South and West Coasts of Greece Including Peleponnisos

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MONTENEGRO							
14236 <i>E 3684</i>	Zaliv Traste, Rt Traste.	42° 21.3' N 18° 41.6' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	30 9	5	White round tower with gallery and pillar; 20.	Visible 010°-278°.
14240 <i>E 3685</i>	Rt Platamon.	42° 16.1' N 18° 47.0' E	Fl.W. period 6s fl. 1s, ec. 5s	105 32	9	White hexagonal stone tower, round column and gallery; 33.	
14244 <i>E 3686</i>	Otocic Sveti Nikola, SE. point.	42° 15.6' N 18° 51.8' E	Fl.(3)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6.5s	75 23	8	White concrete column, near dwelling; 10.	Visible 248°-113°.
14248 <i>E 3688</i>	Budva, mole, head.	42° 16.8' N 18° 50.7' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	21 6	3	Red iron framework tower with column and gallery; 16.	Visible 090°-270°.
14251 <i>E 3688.5</i>	Katici.	42° 11.7' N 18° 56.2' E	Fl.R. period 4s	82 25	6	White round tower; 16.	
BARSKO SIDRISTA:							
14256 <i>E 3689</i>	-Crni Rt.	42° 08.1' N 19° 00.6' E	Fl.W. period 6s fl. 1s, ec. 5s	466 142	25	White round tower on concrete base; 13.	
14260 <i>E 3690</i>	-Rt Volovica.	42° 05.3' N 19° 04.2' E	Fl.(2)W. period 10s	98 30	16	White hexagonal tower, black stripes; 20.	
14268 <i>E 3691</i>	--W. breakwater, head.	42° 05.9' N 19° 04.7' E	Fl.G. period 4s fl. 1s, ec. 3s	62 19	6	White round tower and gallery; 43.	
14269 <i>E 3693</i>	--Mole, N. head.	42° 05.8' N 19° 05.2' E	Fl.(2)R. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	20 6	3	White round tower, red band and platform; 16.	
14272 <i>E 3696</i>	Rt Mendre.	41° 57.2' N 19° 09.0' E	Fl.(3)W. period 10s	115 35	22	White tower beside house; 26.	
14276 <i>E 3698</i>	Ulcinj, on old fort.	41° 55.3' N 19° 12.1' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	88 27	8	White metal column on fort; 13.	
ALBANIA							
SHENGJIN:							
14280 <i>E 3702</i>	-Kep i Shengjinit.	41° 48.7' N 19° 35.1' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	79 24	10	Pile on roof of building; 59.	
14282 <i>E 3702.5</i>	-Mali Renzit.	41° 49.2' N 19° 34.3' E	Fl.(2)W. period 8s fl. 1.8s, ec. 2.2s fl. 1.8s, ec. 2.2s	157 48	10	Square hut; 10.	
14284 <i>E 3703</i>	-Entrance Range, front, center of jetty.	41° 48.9' N 19° 35.3' E	Fl.R. period 6s	39 12	5	White framework mast.	
14288 <i>E 3703.1</i>	--Rear, 75 meters 002° from front, base of jetty.	41° 48.9' N 19° 35.3' E	Fl.R. period 5s	49 15	5	White framework mast.	

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ALBANIA							
14292 E 3704	Talej.	41° 42.6' N 19° 35.2' E	Fl.W. period 6s	49 15	7	On roof of hydroelectric station.	
14296 E 3705	Kep i Rodonit.	41° 35.2' N 19° 26.8' E	Fl.(2)W. period 10s	131 40	8	White metal framework tower, diamond daymark; 33.	
14300 E 3708	Kep i Palit.	41° 24.8' N 19° 23.6' E	Fl.W.R. period 10s	105 32	10	Green stone tower; 10.	R. 140°-160°, W.-140°.
DURRES:							
14304 E 3711	-Kepi i Durresit.	41° 18.9' N 19° 26.4' E	Fl.(2)+L.Fl.W. period 12s	413 126	11	White octagonal tower; 46.	
14310 E 3714.1	-E.	41° 18.9' N 19° 28.1' E	Dir.Iso.W.R.G. period 2s	23 7	W. 7 R. 5 G. 5	White post.	G.015°-016°30', W.-017°30', R.-019°.
14312 E 3712	-S. mole, head.	41° 18.2' N 19° 27.3' E	Fl.R. period 4s	26 8	6	Red tower; 16.	
14316 E 3714	-E. breakwater, head.	41° 18.3' N 19° 27.4' E	Fl.G. period 6s	26 8	6	Green tower; 16.	
14320 E 3719	Kep i Lagit.	41° 08.8' N 19° 26.3' E	L.Fl.W. period 6s fl. 2s, ec. 4s	66 20	11	White tower; 10.	
14322 E 3720	Karavastase.	40° 52.9' N 19° 25.5' E	Fl.W. period 8s fl. 0.8s, ec. 7.2s	62 19	10		
14324 E 3721	Vijose, at entrance.	40° 38.9' N 19° 19.0' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	39 12	7	Metal framework structure, white bands, square daymark; 33.	
ISHULL I SAZANIT							
14328 E 3723	-Ishull i Sazanit, on N. point.	40° 30.7' N 19° 16.2' E	Fl.(4)W. period 15s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 8s	515 157	14	Tower on building; 39.	Obscured 318°-065°.
14332 E 3725	-Shen Nokole, N. mole.	40° 30.1' N 19° 17.4' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	26 8	4	Green metal column; 23.	
14336 E 3726	--S. mole.	40° 30.1' N 19° 17.4' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s		4	White pyramid, octagonal base; 23.	
14337 E 3726.5	-Kepi i Jugor.	40° 28.5' N 19° 17.2' E	Fl.W. period 6s	59 18	6	Metal framework on stone tower; 26.	
14338 E 3732.5	-Kepi Gjuhezes.	40° 25.3' N 19° 17.6' E	Fl.W. period 6s fl. 1s, ec. 5s	190 58	11	White post and bunker; 154.	
GJI I VLORES:							
14340 E 3728	-Kep i Gallovecit, entrance, S. side.	40° 26.2' N 19° 19.5' E	Fl.W. period 5s fl. 0.2s, ec. 4.8s	59 18	5	Metal column, black stripe, white double square daymark; 23.	Visible 095°-290°.
14344 E 3727	-Kep i Treporteve, E. shore.	40° 30.7' N 19° 23.8' E	Fl.(2)W. period 8s fl. 1s, ec. 1s fl. 1s, ec. 5s	230 70	9	White octagonal stone tower; 33.	
14346 E 3727.6	-W. Breakwater.	40° 29.0' N 19° 26.0' E	Fl.(2)R. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	26 8	7	Tower with red gallery; 20.	

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ALBANIA							
14347 E 3727.7	-E. Breakwater.	40° 29.0' N 19° 26.0' E	Fl.(2)G. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	26 8	7	Tower with green gallery; 20.	
14348 E 3729	-Vlore, mole, head.	40° 27.0' N 19° 28.8' E	Fl.G. period 3s fl. 1s, ec. 2s	26 8	3	White tower; 20.	
14350 E 3729.1	-W. mole.	40° 27.0' N 19° 28.9' E	Fl.R. period 3s fl. 1s, ec. 2s	33 10	3	White tower; 26.	
14351 E 3729.5	-Kepi i Kalase.	40° 24.9' N 19° 28.9' E	Fl.W. period 10s fl. 1.5s, ec. 8.5s	144 44	11	White square tower; 20.	
14352 E 3732	-Shen Vasilit.	40° 23.0' N 19° 24.0' E	Fl.(3)W. period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4.5s	246 75	8	White octagonal tower; 20.	
14360 E 3731	-Gji Dukatit, on Kepi i Pasha Liman.	40° 19.7' N 19° 25.2' E	Fl.(2)W. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	69 21	8	White quadrangular masonry tower; 26.	
14364 E 3733	Grames.	40° 13.0' N 19° 28.5' E	Fl.W. period 8s	171 52	8	Metal framework tower, gallery and column; 16.	
PORT' E PALERMOS:							
14368 E 3734	-Kepi i Palermos.	40° 02.8' N 19° 47.5' E	Fl.W. period 8s	371 113	8	White tower; 33.	
14370 E 3734.5	-Pier, head.	40° 00.3' N 19° 53.4' E	Fl.R. period 3s	23 7	4		
14372 E 3741	Kepi i Qefalit.	39° 54.6' N 19° 54.8' E	Fl.(2)W. period 15s fl. 1s, ec. 2s fl. 1s, ec. 11s	482 147	12	Post on building; 10.	
14374 E 3742.5	-SE. side.	39° 50.9' N 20° 01.4' E	Fl.(4)W. period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	56 17	9	Round metal framework tower on base; 20.	
GREECE-WEST COAST-IONIOI NISOI (IONIAN ISLANDS)							
14380 E 3747	Nisos Othonoi.	39° 51.9' N 19° 25.8' E	Fl.W. period 10s fl. 0.7s, ec. 9.3s	338 103	18	White round metal tower on house; 33.	
14384 E 3747.5	-SW. point.	39° 50.2' N 19° 23.2' E	Fl.(2)W. period 6s fl. 0.3s, ec. 1.4s fl. 0.3s, ec. 4s	69 21	6	White round hut, column; 20.	Visible 276°-116°.
14385 E 3747.7	-Avlaki Port.	39° 50.4' N 19° 24.8' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework tower with gallery and metal column, red band.	
14388 E 3748	Nisis Errikousa, on Akra Potamopoulo.	39° 53.5' N 19° 35.9' E	Fl.(3)W. period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 10.5s	161 49	6	Metal framework tower; 13.	

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GREECE-WEST COAST-IONIOI NISOI (IONIAN ISLANDS)							
KERKIRA (CORFU):							
14390 E 3749	-Cape Aikaterini.	39° 49.3' N 19° 50.9' E	Fl.W. period 10s fl. 1s, ec. 9s	46 14	6	Metal framework; 15.	Visible 045°-285°.
14392 E 3750	--Nisis Peristerai.	39° 47.6' N 19° 57.6' E	Fl.R. period 5s fl. 0.4s, ec. 4.6s	75 23	8	White round tower, dwelling; 29.	Radar reflector.
-North Channel:							
14396 E 3754	--Akra Psaromita.	39° 47.1' N 19° 56.9' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	30 9	4	Metal framework tower, green band; 16.	
14398 E 3754.5	--Serpa Bank, E. head.	39° 46.3' N 19° 57.6' E	Q.(3)W. period 10s	39 12	7	E. CARDINAL BYB, beacon, topmark; 39.	
14400 E 3774	-Nisis Vidhon, S. point.	39° 38.3' N 19° 55.7' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	39 12	4	White pyramid, metal framework, green band; 26.	
14414 E 3755	-Ormos Gouvion.	39° 39.0' N 19° 51.1' E	2 F.R. (vert.)	20 6	3	Red metal column; 16.	1 meter apart. Private light.
14416 E 3760	--Breakwater, W. head.	39° 37.7' N 19° 54.7' E	Q.R.	30 9	3	White hexagonal hut, column, red band; 26.	
14424 E 3758	--Landing place.	39° 37.7' N 19° 55.2' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	21 6	4	Metal framework on white round hut, red band; 16.	
14428 E 3757	-Limeniskos Mandraki, breakwater, W. head.	39° 37.5' N 19° 55.7' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	23 7	4	Metal framework tower, red band; 13.	
14430 E 3756	-Akra Sidhero, on citadel.	39° 37.4' N 19° 55.8' E	Fl.(2)W. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	256 78	13	Round tower at castle; 26.	Visible 112°30'-045°.
14432 E 3773	-Akra Anemomilos.	39° 36.8' N 19° 55.7' E	Fl.(2)R. period 10s fl. 0.3s, ec. 1.2s fl. 0.3s, ec. 8.2s	26 8	4	Column with gallery on white hexagonal hut, red band; 23.	
14436 E 3776	-Akra Levkimmis.	39° 27.7' N 20° 04.4' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	26 8	7	Metal framework; 16.	
14440 E 3778	-Port Levkimmis, river, S. side, pier.	39° 26.2' N 20° 05.3' E	Fl.R. period 2s fl. 0.2s, ec. 1.8s	26 8	3	White metal framework, red band; 13.	
-West coast:							
14444 E 3779	--Vrakhoi Lagoudhia.	39° 25.1' N 19° 54.3' E	Fl.(3)W. period 14s fl. 0.3s, ec. 1.3s fl. 0.3s, ec. 1.3s fl. 0.3s, ec. 10.5s	56 17	7	Metal framework; 7.	
14448 E 3780	--Akra Kosteri.	39° 40.3' N 19° 42.8' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	79 24	5	White round hut, metal framework; 20.	
14449 E 3781	---Palaiokastritsas, pier, head.	39° 40.4' N 19° 42.6' E	FR.	23 7	3	Metal column, red band; 20.	
14452 E 3781.5	--Akra Arilla.	39° 42.7' N 19° 39.5' E	L.Fl.W. period 7.5s fl. 2s, ec. 5.5s	95 29	4	Metal framework; 13.	Visible 269°-132°.
14456 E 3782	Sayiadhiaa, on the peninsula.	39° 37.5' N 20° 10.9' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	19 6	5	White metal framework; 23.	

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GREECE-WEST COAST-IONIOI NISOI (IONIAN ISLANDS)							
14460 <i>E 3783</i>	Nisis Prasoudhi.	39° 30.6' N 20° 09.3' E	Fl.(2)W. period 9s fl. 0.7s, ec. 1.3s fl. 0.7s, ec. 6.3s	98 30	8	White pyramidal tower; 10.	
14464 <i>E 3784</i>	Ormos Igoumenitsis, on Akra Kondramourt.	39° 29.9' N 20° 13.7' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	36 11	5	White metal framework tower on hut; 20.	
14468 <i>E 3784.2</i>	-Pier, head.	39° 30.0' N 20° 15.6' E	2 F.R. (vert.)	30 9	5	Metal column; 23.	1 meter apart.
14472 <i>E 3785</i>	Ormos Mourtou, pier, head.	39° 24.5' N 20° 14.4' E	Fl.R. period 1.5s fl. 0.3s, ec. 1.2s	20 6	3	White round hut, metal framework, red band; 13.	
14476 <i>E 3786</i>	Nisis Mavro Oros.	39° 24.4' N 20° 12.6' E	Fl.(3)W. period 20s fl. 1s, ec. 3s fl. 1s, ec. 3s fl. 1s, ec. 11s	286 87	12	White tower, dwelling.	Visible 313°-236°.
14480 <i>E 3788</i>	Ormos Pargas.	39° 17.0' N 20° 23.8' E	Fl.(2)W. period 6s fl. 0.3s, ec. 1.4s fl. 0.3s, ec. 4s	82 25	6	White metal tower; 23.	
14484 <i>E 3792</i>	-Lakka.	39° 14.1' N 20° 07.7' E	Fl.(3)W. period 24s fl. 0.8s, ec. 3.2s fl. 0.8s, ec. 3.2s fl. 0.8s, ec. 15.2s	210 64	20	Square stone building and dwelling; 29.	
NISOS PAXOI:							
14488 <i>E 3794</i>	-Nisis Panayia.	39° 12.2' N 20° 11.7' E	Fl.W.R. period 5s fl. 1s, ec. 4s	85 26	W. 10 R. 8	Square tower, dwelling; 36.	W. 135°-250°, R.-283°, W.-325°, obsc.-135°.
14489 <i>E 3794.7</i>	--Point Kiavari.	39° 12.3' N 20° 11.6' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	30 9	3	White metal framework, green band; 20.	
14490 <i>E 3795.6</i>	--Akra Nikolaos, NW. point.	39° 12.1' N 20° 11.3' E	Fl.R. period 2s fl. 0.2s, ec. 1.8s	26 8	3	White metal framework, red band; 20.	
14491 <i>E 3795</i>	--Limin Paxon, N. breakwater, head.	39° 11.9' N 20° 11.4' E	Fl.G. period 2s fl. 0.2s, ec. 1.8s	26 8	3	White metal framework, green band; 20.	
14491.5 <i>E 3795.7</i>	--N. entrance, on quay.	39° 12.0' N 20° 11.3' E	F.G.	23 7	3	White metal column, green band; 20.	
14492 <i>E 3794.5</i>	--Island, NW. point.	39° 12.4' N 20° 11.7' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	36 11	3	White square hut, red band; 10.	
14494 <i>E 3791.2</i>	-Longos, breakwater, head.	39° 13.8' N 20° 09.9' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	23 7	3	White round hut with metal framework, green band; 30.	
14496 <i>E 3796</i>	Nisis Andipaxoi, Akra Ovorou (Novarra).	39° 08.5' N 20° 14.9' E	Fl.W.R. period 5s fl. 0.3s, ec. 4.7s	135 41	W. 20 R. 15	Square masonry tower, dwelling; 36.	W. 136°-167°, R.-185°, W.-307°, R.-037°, W.-060°, obscured elsewhere. Reserve light F.W.R.
14500 <i>E 3800</i>	Ormos Nikopoleos, Akra Mitikas.	39° 00.3' N 20° 41.9' E	Fl.W.R. period 3s fl. 0.5s, ec. 2.5s	39 12	W. 7 R. 5	White square hut with metal framework on pedestal in sea; 26.	W. 347°-078°, R.-135°, W.-147°.
STENON PREVEZIS:							
14504 <i>E 3804</i>	-Entrance Range, near Fort Aktion, front.	38° 56.6' N 20° 45.6' E	Q.Y.	16 5	7	Yellow triangular daymark, on house roof.	

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GREECE-WEST COAST-IONIOI NISOI (IONIAN ISLANDS)							
14508 <i>E 3804.1</i>	--Rear, about 740 meters from front.	38° 56.7' N 20° 45.9' E	L.F.I.Y. period 6s	31 9	7	Metal framework tower on hut, yellow triangular daymark, point down.	
14512 <i>E 3806</i>	-Akra Akra.	38° 57.4' N 20° 45.7' E	L.F.I.W. period 7.5s fl. 2s, ec. 5.5s	13 4	5	Round metal hut.	Visible 018°-156°.
14518 <i>E 3809</i>	-Limin Preveza, W. mole, head.	38° 57.5' N 20° 45.3' E	F.I.R. period 2s fl. 0.3s, ec. 1.7s	23 7	3	Metal framework with gallery, red band.	
14520 <i>E 3808</i>	--E. mole, head.	38° 57.4' N 20° 45.3' E	F.I.G. period 3s fl. 0.5s, ec. 2.5s	20 6	4	Metal framework on white round hut, green band; 16.	
14522 <i>E 3810</i>	-Agios Thomas.	38° 57.8' N 20° 47.9' E	F.I.R. period 2s fl. 0.3s, ec. 1.7s	23 7	3	Metal framework, gallery and column, red band; 19.	
AMVRAKIKOS KOLPOS:							
14524 <i>E 3811</i>	-Akra Laskara.	38° 57.3' N 20° 49.3' E	Fl.(2)R. period 6s fl. 0.4s, ec. 1.4s fl. 0.4s, ec. 3.8s	39 12	5	Metal framework tower on square hut, red band; 16.	
14532 <i>E 3824</i>	-Ormos Salaoras, mole, head.	39° 01.9' N 20° 52.3' E	F.I.G. period 8s fl. 0.8s, ec. 7.2s	19 6	5	Metal tower with column; green band; 13.	
14533 <i>E 3822</i>	Koronisia, NW. mole, head.	39° 00.9' N 20° 54.8' E	F.I.R. period 2s fl. 0.3s, ec. 1.7s	23 7	3	Metal framework, gallery and metal column, red band; 19.	F.I.G. 3s 3M marks SE. mole head.
14536 <i>E 3820</i>	-Akra Koprainis.	39° 01.7' N 21° 04.5' E	Fl.(2)W.R. period 16s fl. 1s, ec. 2s fl. 1s, ec. 12s	29 9	W. R. 5 3	Round masonry tower on dwelling; 29.	W. 169°-349°, R.-169°. Reserve light F.W.R.
14540 <i>E 3817</i>	-Ormos Ampilokhias, Ayios Yeoryios, on point.	38° 53.6' N 21° 09.0' E	F.I.G. period 3s fl. 0.4s, ec. 2.6s	20 6	4	White metal framework, green band; 16.	
14542 <i>E 3818</i>	Amfilochia.	38° 52.1' N 21° 09.8' E	F.I.G. period 2s fl. 0.3s, ec. 1.7s	16 5	3	Metal framework with gallery and column, green band; 13.	
14544 <i>E 3816</i>	-Akra Khondri Miti.	38° 54.7' N 21° 06.6' E	Fl.W. period 5s fl. 1s, ec. 4s	36 11	4	Metal framework on square hut; 16.	
14548 <i>E 3814</i>	-Vonitsa, jetty, head.	38° 55.3' N 20° 53.2' E	F.I.G. period 1.5s fl. 0.3s, ec. 1.2s	23 7	4	Metal tower with column, green band; 16.	
14556 <i>E 3812</i>	-Akra Panayia.	38° 57.3' N 20° 51.7' E	L.F.I.G. period 7.5s	19 6	3	White lantern house, green band; 15.	
NISOS LEVKAS:							
14560 <i>E 3832</i>	-Citadel, N. battlement.	38° 50.8' N 20° 43.2' E	Fl.(2)W.R. period 12s fl. 1s, ec. 2s fl. 1s, ec. 8s	57 17	W. R. 8 5	White square masonry tower, dwelling; 19.	R. 075°-120°, W.-255°.
14564 <i>E 3834</i>	-Dhiorix Levkadhos, N. mole, head.	38° 50.9' N 20° 43.3' E	F.I.G. period 1.5s	33 10	3	Metal framework tower on hut, green band; 13.	
14568 <i>E 3835</i>	-Nisis Sesoula.	38° 41.8' N 20° 32.4' E	Fl.W. period 4.5s fl. 0.5s, ec. 4s	121 37	8	Column on white round hut; 13.	
14572 <i>E 3836</i>	-Akra Dhoukaton.	38° 33.8' N 20° 32.5' E	Fl.W. period 10s fl. 0.2s, ec. 9.8s	229 70	20	Round tower on house; 49.	

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GREECE-WEST COAST-IONIOI NISOI (IONIAN ISLANDS)							
14576 <i>E 3837</i>	-Ormos Vasilikis, pier, head.	38° 37.7' N 20° 36.4' E	F.G.	16 5	3	White metal column; 13.	
14580 <i>E 3840</i>	Akra Eliar.	38° 40.0' N 20° 48.5' E	Fl.W.R. period 8s fl. 1s, ec. 7s	39 12	W. 10 R. 7	Column on white round hut; 13.	R. 070°-165°, W.-019°, obscured elsewhere.
14581 <i>E 3939.5</i>	Vathy, N. mole, head.	38° 39.9' N 20° 46.9' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	20 6	3	Metal framework with gallery, metal column and green band.	
14584 <i>E 3842</i>	-Nisis Volios, Ormos Dhrepanov, NE. side.	38° 47.7' N 20° 43.7' E	Fl.W.R. period 1.5s fl. 0.2s, ec. 1.3s	26 8	W. 5 R. 3	House; 13.	R. 293°-335°, W.-181°.
14588 <i>E 3844</i>	--Akra Kefali.	38° 45.4' N 20° 45.9' E	Fl.W. period 4s fl. 0.4s, ec. 3.6s	36 11	5	Metal framework; 13.	
14592 <i>E 3850</i>	Palairos (Zaverdha), mole, head.	38° 46.9' N 20° 52.8' E	Fl.G. period 1.5s fl. 0.3s, ec. 1.2s	23 7	3	White round hut with framework, green band; 19.	
14596 <i>E 3852</i>	Akra Kamilafka.	38° 40.2' N 20° 55.5' E	Fl.(3)W. period 10s fl. 0.3s, ec. 1.2s fl. 0.3s, ec. 1.2s fl. 0.3s, ec. 6.7s	79 24	7	Metal framework on white square hut; 20.	
14600 <i>E 3853</i>	Akra Mitika.	38° 40.6' N 20° 56.7' E	Fl.W. period 1.5s fl. 0.3s, ec. 1.2s	20 6	4	White round hut, metal framework; 18.	Visible 278°-149°.
14604 <i>E 3854</i>	Nisos Kalamos, Akra Astroyiali.	38° 39.1' N 20° 57.5' E	Fl.W. period 10s fl. 1s, ec. 9s	43 13	5	Metal framework on white square hut; 20.	
14608 <i>E 3855</i>	-Limeniskos Kalamos.	38° 37.4' N 20° 56.0' E	Fl.R. period 3s fl. 0.4s, ec. 2.6s	23 7	3	Metal framework on white square hut, red band; 20.	
14609	-Episkopi Kalamou.	38° 38.9' N 20° 55.6' E	Fl.R. period 3s fl. 0.6s, ec. 2.4s	23 7	8	Metal framework with gallery metal column, red band; 19.	
14610 <i>E 3857</i>	Nisis Kastos, W. side.	38° 33.9' N 20° 54.1' E	Fl.G. period 4s fl. 0.5s, ec. 3.5s	23 7	3	Metal framework with gallery, metal column and green band; 20.	
14611 <i>E 3856</i>	-E. side.	38° 34.1' N 20° 54.7' E	Fl.R. period 4s fl. 1s, ec. 3s	20 6	5	Metal framework tower, column and red band.	
14612 <i>E 3846</i>	Nisis Formikoula.	38° 34.0' N 20° 51.3' E	Fl.W.R. period 3s fl. 0.5s, ec. 2.5s	56 17	W. 8 R. 5	House, white lantern; 13.	W. 180°-000°, R.-180°.
14614 <i>E 3848</i>	Nisidha Atokos.	38° 28.4' N 20° 48.4' E	Fl.W. period 6s fl. 0.6s, ec. 5.4s	82 25	10	White metal framework, gallery, metal column.	
14616 <i>E 3896</i>	Nisis Kaloyeros, NE. peak.	38° 29.6' N 21° 01.9' E	Fl.W. period 4s fl. 0.4s, ec. 3.6s	138 42	8	Round lantern house; 13.	Visible 083°-316°.
14620 <i>E 3898</i>	Ormos Astakou, pier, head.	38° 31.9' N 21° 04.9' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s	20 6	3	Metal tower, red band; 18.	
14624 <i>E 3900</i>	Ormos Platiyiali, Akra Karloglossa.	38° 28.5' N 21° 05.0' E	Q.R.	26 8	3	Metal framework tower, red band; 16.	
14625 <i>E 3901</i>	-Platygiiali Bay, N. entrance.	38° 28.5' N 21° 05.3' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	26 8	3	Metal framework with gallery and column, red band; 23.	
14626 <i>E 3901.2</i>	--S. entrance.	38° 28.2' N 21° 05.7' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	23 7	3	Metal framework with gallery and column, green band; 16.	

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GREECE-WEST COAST-IONIOI NISOI (IONIAN ISLANDS)							
14627 <i>E 3901.5</i>	Nisidha Provati.	38° 27.3' N 21° 02.7' E	Fl.W. period 5s fl. 0.4s, ec. 4.6s	33 10	6	White metal framework, gallery, metal column.	
14628 <i>E 3902</i>	Nisis Pondikos.	38° 27.5' N 21° 03.7' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal framework with gallery, metal column, green band.	
14630 <i>E 3903</i>	Vrakhos Navalion.	38° 26.5' N 21° 02.8' E	Fl.(2)W. period 10s fl. 0.4s, ec. 1s fl. 0.4s, ec. 8.2s	26 8	6	ISOLATED DANGER BRB, beacon, topmark.	
14632 <i>E 3904</i>	Nisis Petalas, Akra Aspro.	38° 23.7' N 21° 06.1' E	Fl.W. period 2s fl. 0.3s, ec. 1.7s	39 12	4	White round hut with column; 19.	
14634 <i>E 3905</i>	Vrakhonisidha Makri.	38° 22.4' N 21° 01.5' E	Fl.W. period 4s fl. 0.4s, ec. 3.6s	30 9	6	White metal framework, gallery, metal column.	
14636 <i>E 3906</i>	Nisis Makropoula (Kouneli).	38° 21.1' N 21° 03.2' E	Fl.W. period 8s fl. 1s, ec. 7s	92 28	6	White metal round hut, red band; 13.	
14640 <i>E 3908</i>	Akra Oxia.	38° 17.1' N 21° 06.0' E	Fl.(2)W. period 15s fl. 0.1s, ec. 4.9s fl. 0.1s, ec. 9.9s	230 70	17	Round tower on house; 26.	
NISOS ITHAKI:							
14644 <i>E 3866</i>	-Akra Pisaetou.	38° 21.8' N 20° 40.0' E	Fl.W. period 5s fl. 0.3s, ec. 4.7s	62 19	6	White round hut; 13.	
14648 <i>E 3858</i>	-Akra Ayiou Nikolaou.	38° 29.4' N 20° 40.8' E	Fl.(3)W. period 15s fl. 0.3s, ec. 1.2s fl. 0.3s, ec. 1.2s fl. 0.3s, ec. 11.7s	49 15	7	Framework tower on square hut; 20.	
14652 <i>E 3859</i>	-Ormos Frikas, S. mole, head.	38° 27.6' N 20° 39.9' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	19 6	3	Metal framework on hut, red band; 18.	
14654 <i>E 3859.5</i>	-Ormos Kioni, mole, head.	38° 27.0' N 20° 41.6' E	F.G.	26 8	3	Green metal column.	
14656 <i>E 3860</i>	-Limin Vathi.	38° 23.1' N 20° 42.2' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	66 20	5	Framework tower; 13.	
14660 <i>E 3861</i>	--Skartsoumbonisi.	38° 22.6' N 20° 42.0' E	Fl.G. period 4s fl. 0.3s, ec. 3.7s	26 8	3	Framework tower; 13.	
14664 <i>E 3862</i>	--Nisis Loimokathartirion.	38° 22.2' N 20° 42.8' E	Q.G.	26 8	2	Hut, concrete column, green band.	
14668 <i>E 3864</i>	-Akra Ayiou Ioannou.	38° 19.2' N 20° 46.1' E	Fl.W. period 10s fl. 1s, ec. 9s	33 10	10	Metal framework; 13.	
NISOS KEFALLINIA:							
14672 <i>E 3876</i>	-Akra Fiskardhon.	38° 27.7' N 20° 35.0' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	92 28	7	Square masonry tower; 46.	Obscured by shore on bearings eastward of 155°.
14676 <i>E 3874</i>	-Ormos Ayios Evfemias, mole, head.	38° 18.2' N 20° 36.1' E	Q.G.	20 6	3	Metal framework with gallery, green band; 18.	
14680 <i>E 3872</i>	-Sami, mole, head.	38° 15.3' N 20° 38.8' E	Fl.R. period 2s fl. 0.5s, ec. 1.5s	30 9	4	Metal framework with gallery and metal column, red band; 20.	

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GREECE-WEST COAST-IONIOI NISOI (IONIAN ISLANDS)							
14684 <i>E 3870</i>	-Akra Dhik Halia.	38° 16.9' N 20° 40.6' E	Fl.(2)R. period 8s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	56 17	5	Metal framework on white round hut, red band; 18.	
14688 <i>E 3869.4</i>	-Ormos Porou, pier, head.	38° 08.9' N 20° 46.9' E	Q.G.	23 7	3	Metal framework on round hut, green band; 16.	
14690 <i>E 3869.42</i>	--NE. mole, head.	38° 08.9' N 20° 46.9' E	Fl.R. period 4s fl. 0.4s, ec. 3.6s	26 8	5	Metal framework with gallery and metal column, red band.	
14692 <i>E 3869.7</i>	-Akra Sarakini.	38° 09.0' N 20° 47.2' E	Fl.W. period 4s fl. 0.3s, ec. 3.7s	52 16	5	White round hut with metal framework; 20.	
14696 <i>E 3869</i>	-Akra Kapri.	38° 06.5' N 20° 48.9' E	Fl.(3)W.R. period 9s fl. 0.8s, ec. 1.5s fl. 0.8s, ec. 1.5s fl. 0.8s, ec. 3.6s	66 20	W. 6 R. 4	Metal framework tower on round hut; 13.	W. 190°-354°, R.-017°.
14700 <i>E 3868</i>	-Akra Katelios.	38° 03.8' N 20° 44.6' E	Fl.(2)W.R. period 15s fl. 0.6s, ec. 2.4s fl. 0.6s, ec. 11.4s	351 107	W. 11 R. 8	White round hut with metal framework; 19.	R. 262°-302°, W.-100°.
14704 <i>E 3882</i>	-Nisis Vardhianoï, Kolpos Argostolin, entrance.	38° 08.1' N 20° 25.7' E	Fl.W.R. period 7.5s fl. 0.7s, ec. 6.8s	36 11	W. 6 R. 4	Round stone tower; 26.	R. 200°-222°, W.-080°, R.-107°, obsc.-200°.
14708 <i>E 3890</i>	--Akra Ayios Theodoros.	38° 11.5' N 20° 28.1' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	36 11	5	Round white building on column.	
	-Kolpos Argostoliou:						
14712 <i>E 3892</i>	--Argostolion, shoal, E. head.	38° 11.2' N 20° 29.5' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	13 4	3	Metal tower; 10.	
14716 <i>E 3884</i>	--Lixourion, S. mole, head.	38° 12.0' N 20° 26.6' E	Fl.R. period 1.5s fl. 0.3s, ec. 1.2s	23 7	3	White hexagonal hut with column, red band; 22.	Visible 009°-345°. Fl. G. 1.5s marks head of N. mole.
14720 <i>E 3880</i>	-Akra Yerogombos.	38° 10.9' N 20° 20.4' E	L.Fl.(2)W. period 15s fl. 3s, ec. 2s fl. 3s, ec. 7s	190 58	24	Round masonry tower, dwelling; 42.	Obscured when bearing more than 151°.
NISOS ZAKINTHOS:							
14724 <i>E 3984</i>	-Akra Skinari.	37° 56.0' N 20° 42.0' E	Fl.W. period 5s fl. 0.3s, ec. 4.7s	216 66	20	Round masonry tower, dwelling; 29.	
14726 <i>E 3985</i>	-Ayios Nikolaos.	37° 54.4' N 20° 42.8' E	Fl.W. period 2s fl. 0.3s, ec. 1.7s	49 15	7	White round hut with metal framework; 16.	
14728 <i>E 3986</i>	-Akra Krioneri.	37° 48.4' N 20° 54.3' E	Fl.(2)W. period 16s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 12.5s	69 21	6	White square concrete hut; 26.	
14736 <i>E 3989</i>	-Zakinthou, S. breakwater, head.	37° 46.9' N 20° 54.2' E	Fl.R. period 1.5s fl. 0.3s, ec. 1.2s	26 8	4	Column with gallery on white hexagonal hut, red band; 23.	
14737 <i>E 3988</i>	--N. breakwater, head.	37° 46.9' N 20° 54.4' E	Fl.G. period 1.5s	36 11	5	Column and gallery on square concrete building, green band; 29.	
14740 <i>E 3990</i>	-Akra Kerion.	37° 39.3' N 20° 48.5' E	Fl.W. period 10s fl. 0.4s, ec. 9.6s	636 194	17	Round tower on dwelling; 23.	

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GREECE-WEST COAST-IONIOI NISOI (IONIAN ISLANDS)							
PATRAIKOS KOLPOS:							
14744 <i>E 3910</i>	-Akra Araxos.	38° 12.9' N 21° 22.4' E	L.FI.(2)W. period 20s fl. 2s, ec. 6s fl. 2s, ec. 10s	23 7	10	Metal framework; 16.	
14750 <i>E 3916.5</i>	-Lakkopetra.	38° 10.7' N 21° 29.4' E	FI.Y. period 3s fl. 0.3s, ec. 2.7s	20 6	3	Yellow metal framework tower with column and gallery.	
14752 <i>E 3918</i>	-Liminiskos Alikon, Kato Akhaia, pier, head.	38° 09.4' N 21° 32.2' E	FI.W.R. period 3s fl. 0.3s, ec. 2.7s	26 8	W. 5 R. 3	Metal framework with gallery and column; 20.	W. 120°-269°, R.-120°.
14756 <i>E 3912</i>	-Nisis Ayios Sostis.	38° 19.1' N 21° 22.3' E	FI.W.R. period 5s fl. 0.1s, ec. 4.9s	39 12	W. 17 R. 14	White round masonry tower; 37.	R. 293°-010°, W.-059°, obsc.- 198°, W.-203°, obscured elsewhere. Reserve light F.W. Visibility may be considerably reduced during the summer.
14761 <i>E 3928</i>	-Patrai, Marina Patron, breakwater, N. head.	38° 16.0' N 21° 44.3' E	F.G.	20 6	1	Hexagonal hut, column; 20.	
14761.5 <i>E 3928.2</i>	--Breakwater, S. head.	38° 15.6' N 22° 44.2' E	F.R.	16 5	1	White metal column, red band.	
14763 <i>E 3919</i>	--Breakwater, head.	38° 15.6' N 21° 44.0' E	FI.G. period 5s fl. 1s, ec. 4s	39 12	8	Metal framework; 13.	
14763.5 <i>E 3919.2</i>	--Provlita Astingos, head.	38° 15.2' N 21° 44.1' E	FI.R. period 5s fl. 1s, ec. 4s	23 7	8	White metal framework, red band; 20.	
14764 <i>E 3926</i>	--Molos Kalavritas, head.	38° 14.9' N 21° 43.7' E	FI.G. period 1.5s fl. 0.3s, ec. 1.2s	23 7	3	Metal framework on square hut, green band; 20.	
14768 <i>E 3927</i>	--Ayios Andreas, mole, head.	38° 14.8' N 21° 43.6' E	FI.G. period 6s fl. 1s, ec. 5s	26 8	10	Metal column with gallery, green band.	
14769 <i>E 3921.5</i>	--Glavkos, breakwater, N. head.	38° 14.0' N 21° 43.0' E	FI.G. period 5s	23 7	9		
14769.1 <i>E 3921</i>	---S. head.	38° 13.5' N 21° 42.8' E	FI.R. period 5s	26 8	9		
14776 <i>E 3920</i>	--Detached breakwater, elbow.	38° 15.3' N 21° 44.0' E	FI.G. period 1.5s fl. 0.3s, ec. 1.2s	10 3	3	Metal tower, green band; 7.	Visible 180°-035°.
14780 <i>E 3936</i>	-Akra Ayia.	38° 16.9' N 21° 44.6' E	FI.(2)G. period 6s fl. 0.5s, ec. 1.2s fl. 0.5s, ec. 3.8s	23 7	4	Metal framework; 13.	
14781 <i>E 3939.5</i>	-Rio, pier, head.	38° 18.1' N 21° 46.3' E	2 F.G. (vert.)	23 7	3	White metal column; 20.	1 meter apart. Private light.
KORINTHIAKOS KOLPOS:							
14784 <i>E 3938</i>	-Akra Andirrion, entrance, N. side.	38° 19.6' N 21° 45.9' E	FI.(2)W. period 10s fl. 0.8s, ec. 2.2s fl. 0.8s, ec. 6.2s	52 16	10	Round tower, dwelling; 30.	
14788 <i>E 3940</i>	-Akra Rion.	38° 18.7' N 21° 46.7' E	FI.W. period 6s fl. 1s, ec. 5s	52 16	6	Metal framework on white round hut.	
14792 <i>E 3942</i>	-Navpaktos.	38° 23.5' N 21° 49.7' E	FI.G. period 2s fl. 0.3s, ec. 1.7s	43 13	3	Metal column; 20.	

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GREECE-WEST COAST-IONIOI NISOI (IONIAN ISLANDS)							
14796 <i>E 3946</i>	-Akra Mornos.	38° 22.1' N 21° 52.4' E	Fl.(3)W. period 15s fl. 0.3s, ec. 1.2s fl. 0.3s, ec. 1.2s fl. 0.3s, ec. 11.7s	23 7	7	Metal framework on square hut; 20.	
14798 <i>E 3954.2</i>	-Akra Marathias, W. mole, head.	38° 23.4' N 22° 00.0' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	20 6	3	Metal framework, gallery, metal column, red band; 16.	
14798.5 <i>E 3954.22</i>	--E. mole, head.	38° 23.4' N 22° 00.0' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	20 6	3	Metal framework, gallery, metal column, green band; 16.	
14800 <i>E 3952</i>	-Nisis Trizonia, E. side.	38° 22.0' N 22° 04.7' E	Fl.W. period 4s fl. 0.8s, ec. 3.2s	30 9	4	White square hut with 2 pilasters; 20.	
14804 <i>E 3956</i>	-Akra Psaromita.	38° 19.2' N 22° 10.9' E	Fl.(2)W. period 15s fl. 0.1s, ec. 4.9s fl. 0.1s, ec. 9.9s	213 65	21	Round masonry tower, dwelling; 30.	Visible 226°-143°.
14808 <i>E 3957</i>	-Eratini, W. pier, head.	38° 21.6' N 22° 13.7' E	2 F.R. (vert.)	23 7	3	Metal column, red band.	1 meter apart.
14808.5 <i>E 3957.5</i>	-Ormos Panormou, N. mole head.	38° 21.6' N 22° 15.1' E	Fl.R. period 3s	26 8	4	Metal framework with gallery, metal column and red band.	
14812 <i>E 3958</i>	-Akra Andromakhi.	38° 20.0' N 22° 22.7' E	Fl.(3)W. period 15s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 8s	46 14	10	Metal framework tower on round hut; 16.	Visible 235°-087°.
14816 <i>E 3960</i>	-Ormos Galaxidhiou, Nisis Apsifia.	38° 22.7' N 22° 24.0' E	Fl.W. period 7s fl. 0.6s, ec. 6.4s	43 13	5	Metal framework tower on hut.	Visible 111°-357°.
14820 <i>E 3962</i>	-Ormos Galaxidhiou.	38° 22.8' N 22° 23.2' E	Fl.R.G. period 1.5s fl. 0.3s, ec. 1.2s	36 11	3	Metal framework on round hut; 16.	R. 080°-216°, G.-347°, obsc.- 080°.
14822 <i>E 3963.2</i>	-Itea, pier, (T head).	38° 25.9' N 22° 25.5' E	Q.R.	23 7	5	Metal framework tower, gallery, metal column and red band.	
14824 <i>E 3963</i>	--Head.	38° 25.8' N 22° 25.5' E	Fl.R.G. period 3s fl. 0.4s, ec. 2.6s	29 9	4	White hexagonal hut, column and gallery.	G. 295°-355°, R.-030°, G.- 111°.
14828 <i>E 3964</i>	-Akra Makri-Nicolaos.	38° 17.0' N 22° 33.0' E	Fl.W. period 4.5s fl. 0.4s, ec. 4.1s	59 18	5	White pyramid; 13.	
14832 <i>E 3970</i>	-Ormos Andikiron, entrance, W. side.	38° 21.6' N 22° 38.8' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	62 19	4	Framework tower on hut.	
14833 <i>E 3970.5</i>	--Andikira Harbor, mole, head.	38° 22.5' N 22° 37.9' E	Fl.G. period 4s fl. 0.5s, ec. 3.5s	33 10	7	Round tower on house.	
14834 <i>E 3965</i>	-Saranti Bay.	38° 14.0' N 22° 53.2' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal framework with gallery, red band.	
14834.3 <i>E 3965.03</i>	-Fonas, W. head.	38° 10.4' N 22° 56.7' E	Fl.(2)W. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	52 16	7	Metal framework.	
14834.7 <i>E 3965.07</i>	--E. head.	38° 10.6' N 22° 58.3' E	Fl.R. period 4s fl. 0.4s, ec. 3.6s	33 10	4	Metal framework, red band.	
14835 <i>E 3965.1</i>	-Grompoloura.	38° 10.9' N 22° 58.9' E	Fl.G. period 4s fl. 0.3s, ec. 3.7s	23 7	4	Metal framework, green band.	

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GREECE-WEST COAST-IONIOI NISOI (IONIAN ISLANDS)							
14835.3 <i>E 3965.13</i>	-Cape Tsarla.	38° 11.4' N 22° 58.1' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	20 6	4	Metal framework, red band.	
14835.7 <i>E 3965.16</i>	-Cape Ioannis.	38° 12.7' N 22° 57.3' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	23 7	4	Metal framework, green band.	
14835.8	-Nikolaos, mole, head.	38° 12.8' N 23° 01.2' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework with gallery, metal column and red band.	
14836 <i>E 3965.2</i>	-Alyki Bay.	38° 11.8' N 23° 02.8' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework with gallery, red band.	
14838 <i>E 3965.4</i>	-Vasileios Bay.	38° 10.9' N 23° 08.5' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework with gallery, green band.	
14840 <i>E 3971</i>	-Germano, W. mole, head.	38° 09.5' N 23° 13.2' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	23 7	3	Metal framework, gallery and column, red band.	Fl.G. 2s marks E. mole head.
14844 <i>E 3972</i>	-Akra Melangavi.	38° 01.7' N 22° 51.0' E	Fl.W. period 10s fl. 0.3s, ec. 9.7s	197 60	19	Square masonry tower and dwelling; 43.	
	-Korinthos:						
14848 <i>E 3974</i>	--Loutraki, pier, head.	37° 58.7' N 22° 58.5' E	Fl.R.	26 8	1	White metal column, red band; 20.	
14852 <i>E 3976</i>	--Posidhonia, Dhiorix Korinthou, entrance, N. mole, head.	37° 57.0' N 22° 57.0' E	Iso.R. period 2s	33 10	10	Metal framework column.	Dhiorix Korinthou is lighted by electric lights. A W. light shown from flagstaff indicates that vessels can enter, 2 W. lights prohibit entry.
14856 <i>E 3977</i>	--S. mole, head.	37° 57.1' N 22° 57.5' E	Iso.G. period 2s	33 10	10	Metal framework with gallery; 26.	
14857 <i>E 3978.9</i>	--S. mole, head.	37° 56.4' N 22° 56.2' E	Fl.R.	20 6	3	PORT (A) R, beacon; 16.	
14857.1 <i>E 3978.91</i>	--N. mole, head.	37° 56.5' N 22° 56.2' E	Fl.G.	23 7	3	STARBOARD (A) G, beacon; 16.	
14860 <i>E 3979</i>	--Pierhead, about 2.4 km. 250° from Posedhonia, S. mole.	37° 57.0' N 22° 56.0' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	33 10	3	White column with gallery green band on white hexagonal hut.	
14864 <i>E 3973</i>	-Kiaton, jetty, head.	38° 01.0' N 22° 45.0' E	Fl.G. period 3s fl. 1s, ec. 2s	30 9	6	Metal framework with gallery, column, green band; 19.	
14864.1	--N. mole, head.	38° 00.7' N 22° 45.2' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal framework with gallery, metal column and red band.	
14864.2 <i>E 3973.5</i>	--W. mole, head.	37° 57.9' N 22° 48.6' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal framework with gallery and green band.	
14865 <i>E 3973.6</i>	-Kato Assos. Fishing Harbour, outer S. mole.	37° 57.2' N 22° 50.1' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal framework, gallery, column with red band; 19.	
14866 <i>E 3968.2</i>	-Xylokastro, S. mole.	38° 04.9' N 22° 37.5' E	Fl.R.	26 8	3	Metal column, red band.	
14868 <i>E 3967</i>	-Akra Likoporia.	38° 08.0' N 22° 29.0' E	Fl.(2)W. period 16s fl. 1s, ec. 2s fl. 1s, ec. 12s	56 17	10	Iron framework tower with gallery, on hut; 49.	Visible 109°-297°.
14872 <i>E 3950</i>	-Ormos Aiyou, S. side of gulf, pier, head.	38° 15.0' N 22° 05.0' E	Fl.R. period 1.5s fl. 0.2s, ec. 1.3s	26 8	6	Metal framework on hut; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
GREECE-WEST COAST-IONIOI NISOI (IONIAN ISLANDS)							
14876 <i>E 3948</i>	-Akra Dhrepanon.	38° 20.0' N 21° 51.0' E	Fl.W. period 10s fl. 0.3s, ec. 9.7s	33 10	10	Round tower on dwelling; 29.	
14876.1 <i>E 3995.85</i>	Lechena, fishing harbor, N mole, head.	37° 58.0' N 21° 14.2' E	Fl.G. period 3s	23 7	3	Metal framework with gallery, metal column and green band.	
14876.2 <i>E 3995.8</i>	--S. mole, head.	37° 58.0' N 21° 14.2' E	Fl.R. period 3s	23 7	3	Metal framework with gallery, metal column and red band.	
14877 <i>E 3948.5</i>	-Arakhovitika, fishing harbor, mole, head.	38° 19.8' N 21° 50.5' E	Fl.G. period 4s fl. 1s, ec. 3s	20 6	5	Metal framework with gallery, metal column and green band; 16.	
14878 <i>E 3995.5</i>	Kyllini, Fishing Harbor, S. Mole, head.	37° 56.1' N 21° 09.0' E	Fl.R. period 3s	23 7	3	Metal framework with gallery, metal column and red band.	
14879 <i>E 3995.6</i>	--N. Mole, head.	37° 56.2' N 21° 09.0' E	Fl.G. period 3s	23 7	3	Metal framework with gallery, metal column and green band.	
14879.5 <i>E 3995.7</i>	--N. breakwater.	37° 56.2' N 21° 09.2' E	Fl.G. period 1.3s	26 8	3		
14880 <i>E 3996</i>	Nisis Kavkalidha.	37° 56.5' N 21° 07.1' E	L.Fl.W.R. period 10s fl. 2s, ec. 8s	69 21	W. 12 R. 9	Square masonry tower, dwelling; 49.	W. 016°-059°, R.-092°, W.-211°, obsc.-016°. Reserve light F.W.R.
14884 <i>E 3997</i>	Akra Tripiti.	37° 51.0' N 21° 07.0' E	Fl.(3)W. period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 10.5s	23 7	7	Metal framework on white round hut; 17.	
14888 <i>E 3997.5</i>	<i>Gastouni, LIGHTFLOAT.</i>	37° 47.1' N 21° 14.0' E	Fl.Y. period 2s	26 8	3	Black float, framework tower; 26.	
14892 <i>E 3998</i>	Akra Katakolon.	37° 38.0' N 21° 19.0' E	Fl.W. period 4s fl. 1s, ec. 3s	161 49	15	Octagonal gray masonry tower and dwelling; 29.	
14896 <i>E 4000</i>	Ormos Katakolou, pier, head.	37° 38.8' N 21° 19.6' E	Fl.R. period 5s fl. 0.8s, ec. 4.2s	33 10	10	White round hut with red band; 29.	
NISOI STROFADHES:							
14900 <i>E 4004</i>	-Nisis Stamfani.	37° 15.2' N 21° 00.3' E	Fl.(2)W. period 15s fl. 0.1s, ec. 4.9s fl. 0.1s, ec. 9.9s	127 39	17	Square tower and dwellings; 36.	
14904 <i>E 4006</i>	Nisis Proti, S. point.	37° 02.0' N 21° 33.1' E	Fl.W. period 1.5s fl. 0.3s, ec. 1.2s	43 13	6	Metal framework on white round hut; 16.	
ORMOS NAVARINOU:							
14908 <i>E 4008</i>	-Nisis Pilos, SE. point, N. side of entrance to bay.	36° 54.3' N 21° 40.4' E	Fl.(2)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 8s	105 32	9	Metal framework; 20.	
14912 <i>E 4009</i>	-Akra Neokastron.	36° 54.8' N 21° 41.3' E	Fl.G. period 3s fl. 0.4s, ec. 2.6s	49 15	6	White hexagonal, gallery and green band; 26.	
14916 <i>E 4010</i>	-Pilos, pier, head.	36° 55.0' N 21° 41.7' E	Fl.G.	23 7	3	White metal column, green band; 16.	Fl.G. 3s 3M and Fl.R. 3s 3M mark marina 600 meters ENE.
14917 <i>E 4010.2</i>	--Mole, head.	36° 55.0' N 21° 41.8' E	Fl.G.	20 6	3	Metal framework.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
GREECE-WEST COAST-IONIOI NISOI (IONIAN ISLANDS)							
14920 E 4011	-Nisis Helonisi.	36° 57.0' N 21° 41.0' E	Fl.W.R. period 3s fl. 0.3s, ec. 2.7s	36 11	W. R.	4 3	Concrete column on hexagonal pedestal, red band; 26. W. 113°-095°, R.-113°.
14924 E 4014	Methoni, pier, head.	36° 49.0' N 21° 42.0' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	20 6		3	White round hut with column, red band; 13.
NISIS SAPIENTZA:							
14928 E 4015	-N. point (Akra Karsi).	36° 48.0' N 21° 42.0' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	72 22		5	Quadrangular iron pyramid; 13.
14932 E 4016	-S. summit.	36° 44.5' N 21° 41.8' E	Fl.(3)W. period 20s fl. 0.2s, ec. 3.1s fl. 0.2s, ec. 3.1s fl. 0.2s, ec. 13.2s	381 116		18	Octagonal tower, dwelling; 31. Visible 305°-172°.
14940 E 4017	Nisis Venetiko, N. point.	36° 42.0' N 21° 53.0' E	Fl.W. period 9s fl. 0.5s, ec. 8.5s	26 8		7	Metal framework on white round hut; 16.
MESSINIAKOS KOLPOS:							
14944 E 4018	-Koroni, mole, head.	36° 48.0' N 21° 58.0' E	Fl.R. period 1.5s fl. 0.2s, ec. 1.3s	26 8		3	Metal framework; 13.
14948 E 4020	-Akra Livadhia.	36° 48.0' N 21° 58.0' E	Fl.W. period 1.5s fl. 0.4s, ec. 1.1s	62 19		5	Metal framework tower; 13.
14952 E 4022	-Akra Petalidhi.	36° 58.0' N 21° 56.0' E	Fl.W. period 4s fl. 0.4s, ec. 3.6s	23 7		5	Metal framework on white round hut; 16.
14954 E 4031	-Marina. S. breakwater, head.	37° 01.4' N 22° 06.3' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	33 10		3	Metal framework tower with gallery, green band.
14955 E 4031.2	--N. breakwater, head.	37° 01.5' N 22° 06.3' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	33 10		3	Metal framework tower with gallery, red band.
14956 E 4026	-Kalamai, S. jetty, head.	37° 01.0' N 22° 07.0' E	Fl.R. period 1.5s fl. 0.2s, ec. 1.3s	33 10		3	Concrete column, hut.
14960 E 4030	--Inner mole, head.	37° 01.3' N 22° 06.9' E	Q.G.	20 6		3	Concrete column on pedestal, green band.
14964 E 4028	--New E. mole, head.	37° 00.8' N 22° 07.5' E	Fl.G. period 1.5s fl. 0.2s, ec. 1.3s	30 9		3	Hut, concrete column.
14968 E 4032	-Akra Kitries.	36° 55.0' N 22° 07.0' E	Fl.(2)W. period 12s fl. 0.8s, ec. 1.4s fl. 0.8s, ec. 9s	105 32		7	Square tower on dwelling; 36.
14972 E 4036	-Kardhamili, jetty, N.	36° 53.0' N 22° 14.0' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	33 10		5	Metal column on white round hut; 16. Visible 352°-093°.
14976 E 4038	-Selenitsa.	36° 49.0' N 22° 18.0' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	33 10		5	Metal column on round hut.
14980 E 4040	-Ormos Limeniou, entrance, S. side.	36° 40.7' N 22° 22.2' E	Fl.W. period 1.5s fl. 0.2s, ec. 1.3s	46 14		6	Metal framework tower on pedestal; 7.
14984 E 4042	-Mezapos.	36° 32.7' N 22° 23.3' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	52 16		5	Iron truncated pyramid; 8.

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GREECE-WEST COAST-IONIOI NISOI (IONIAN ISLANDS)							
LAKONIKOS KOLPOS:							
14988 E 4044	-Gerolimena.	36° 28.6' N 22° 23.7' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	59 18	6	Metal framework tower on pedestal; 18.	
14992 E 4048	-Akra Tainaron.	36° 23.1' N 22° 28.8' E	Fl.(2)W. period 20s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 17.3s	135 41	22	Square masonry tower, dwelling; 52.	
15000 E 4050	-Porto Kayio, Akra Tainaron, E. side.	36° 25.8' N 22° 29.3' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	64 20	8	White pedestal.	Visible 220°-327°.
15004 E 4051	-Ormos Melingani.	36° 30.6' N 22° 29.3' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	49 15	4	Metal framework tower on pedestal, green band.	Visible 183°-015°.
15008 E 4052	-Limn Yithion, Nisis Kranai, E. head.	36° 45.1' N 22° 34.5' E	Fl.(3)W. period 18s fl. 1s, ec. 3s fl. 1s, ec. 3s fl. 1s, ec. 9s	82 25	14	Octagonal tower on dwelling; 75.	
15012 E 4054	--Jetty, head.	36° 45.3' N 22° 34.1' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal framework tower, red band.	
15016 E 4058	-Molaon, E. side of gulf, mole, head.	36° 45.0' N 22° 48.0' E	Fl.G. period 1.5s fl. 0.3s, ec. 1.2s	33 10	3	Metal framework tower on pedestal, green band; 16.	
15020 E 4060	-Akra Xilis.	36° 39.4' N 22° 49.4' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	36 11	5	Metal framework tower on pedestal; 16.	
15024 E 4062	-Ormos Xilis, Pliitra, mole, head.	36° 41.2' N 22° 50.3' E	Q.G.	26 8	3	Metal framework; 7.	
15028 E 4073	Vrakhos Stavros.	36° 30.8' N 22° 58.7' E	Fl.R.G. period 1.5s fl. 0.3s, ec. 1.2s	20 6	3	Metal framework on white round hut; 18.	R. 000°-180°, G. elsewhere.
15030 E 4073.6	Neapoli, mole, NW head.	36° 30.5' N 23° 03.5' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal framework, gallery, metal column and green band.	
15036 E 4074	Ormos Vatika.	36° 29.2' N 23° 03.9' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	52 16	7	White round hut; 12.	
15040 E 4076	Akra Zovollo.	36° 25.7' N 23° 07.8' E	Fl.W. period 7s fl. 1s, ec. 6s	43 13	12	White round hut.	Visible 263°-095°.
15044 E 4078	Akra Maleas.	36° 27.1' N 23° 12.1' E	Fl.W. period 10s fl. 0.3s, ec. 9.7s	131 40	17	Square tower, dwelling; 49.	Visible 175°-345°.
NISOS KITHIRA:							
15048 E 4066	-Akra Spathi.	36° 22.7' N 22° 57.8' E	Fl.(3)W. period 30s fl. 0.1s, ec. 4.9s fl. 0.1s, ec. 4.9s fl. 0.1s, ec. 19.9s	374 114	20	Round masonry tower, dwelling; 82.	Visible 062°-319°.
15050 E 4071	-Ayia Pelayia.	36° 19.6' N 22° 59.1' E	Fl.R. period 1.5s fl. 0.1s, ec. 1.4s	19 6	3	White framework tower on pedestal, red band.	
15051 E 4067	-Kapsali, pier, head.	36° 08.6' N 23° 00.0' E	FG.	33 10	3	White metal column with green band; 33.	
15052 E 4068	-Ormos Kapsaliou, E. side.	36° 08.5' N 22° 59.9' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	79 24	10	White tower on dwelling; 26.	Visible 327°-030°.

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GREECE-WEST COAST-IONIOI NISOI (IONIAN ISLANDS)							
15060 <i>E 4070</i>	-Ormos Ayiou Nikolaou, entrance, SE. side.	36° 13.3' N 23° 04.8' E	FI.G. period 1.5s fl. 0.2s, ec. 1.3s	26 8	3	Metal column on pedestal, green band.	
15062 <i>E 4070.3</i>	-Diakofti, mole, head.	36° 16.2' N 23° 04.6' E	FI.R. period 3s fl. 0.3s, ec. 2.7s	30 9	3	Metal framework tower, red band.	
15064 <i>E 4065</i>	-Vrakhonisis Andidragonera.	36° 14.2' N 23° 07.1' E	FI.(3)W. period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 10.5s	46 14	7	Metal framework; 13.	
15068 <i>E 4070.6</i>	-Diakofti Kithiron, on Vrakhonisis Makronisos.	36° 16.5' N 23° 04.8' E	FI.W. period 10s fl. 1s, ec. 9s	59 18	7	Metal framework on white square hut; 20.	
NISOS ANDIKITHIRA:							
15076 <i>E 4072</i>	-Akra Apolitares.	35° 49.5' N 23° 19.5' E	FI.(2)W. period 15s fl. 0.1s, ec. 4.9s fl. 0.1s, ec. 9.9s	131 40	17	Round tower and dwelling.	Visible 227°-135°.
15080 <i>E 4072.4</i>	-Akra Kastron.	35° 53.5' N 23° 17.7' E	FI.W. period 5s fl. 0.5s, ec. 4.5s	102 31	6	White metal framework; 13.	Visible 013°-227°.
15082 <i>E 4072.6</i>	--Entrance, W. limit.	35° 53.1' N 23° 17.4' E	FI.G. period 3s fl. 0.3s, ec. 2.7s	59 18	3	White metal framework with green band; 13.	
15084 <i>E 4088</i>	Nisis Falkonera.	36° 50.2' N 23° 53.4' E	FI.W. period 5s fl. 1s, ec. 4s	446 136	17	White round hut; 13.	Visible 169°-120°.
15088 <i>E 4090</i>	Nisis Velopoula.	36° 55.7' N 23° 27.1' E	FI.(2)W. period 20s fl. 0.2s, ec. 3s fl. 0.2s, ec. 16.6s	367 112	22	Octagonal tower on square dwelling; 33.	Obscured 319°-342°.
GREECE							
15092 <i>E 4080</i>	Akra Monemvasia, Khers Elos, E. side.	36° 41.5' N 23° 03.5' E	FI.W. period 5s fl. 0.6s, ec. 4.4s	49 15	11	Metal framework tower on pedestal; 23.	
15096 <i>E 4081</i>	-Mole, head.	36° 41.4' N 23° 02.5' E	FI.R. period 2s fl. 0.3s, ec. 1.7s	26 8	3	Metal framework with gallery and column, red band.	
15100 <i>E 4082</i>	Angirovoliou Palaia Monemvasia.	36° 43.9' N 23° 02.4' E	FI.G. period 1.5s fl. 0.3s, ec. 1.2s	26 8	3	Metal framework on white round hut, green band; 23.	
15104 <i>E 4086</i>	Ormos Ierakos, Akra Kastro.	36° 47.1' N 23° 05.3' E	FI.G. period 3s fl. 0.4s, ec. 2.6s	69 21	5	White round hut with column and green band; 20.	
15108 <i>E 4092</i>	Ormos Kiparissiou, entrance, S. side.	36° 58.1' N 23° 00.3' E	FI.R. period 1.5s fl. 0.3s, ec. 1.2s	26 8	3	Metal framework tower, red band; 10.	
15112 <i>E 4094</i>	-Akra Aspro Khorti.	36° 59.0' N 23° 00.2' E	FI.W. period 4s fl. 0.3s, ec. 3.7s	138 42	7	White round hut with column; 12.	
ARGOLIKOS KOLPOS:							
15116 <i>E 4096</i>	-Leonidhion, W. side of entrance to gulf.	37° 08.7' N 22° 53.6' E	FI.G. period 1.5s fl. 0.2s, ec. 1.3s	23 7	3	Metal column, green band; 13.	

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GREECE							
15117 <i>E 4095</i>	-Poulithra, mole, head.	37° 07.0' N 22° 54.2' E	F.R.	26 8	3	White concrete column, red band; 23.	
15120 <i>E 4098</i>	-Akra Sambatikis.	37° 11.3' N 22° 54.7' E	L.FI.W. period 7.5s fl. 2s, ec. 5.5s	72 22	6	Metal framework; 13.	
15124 <i>E 4104</i>	-Akra Astros.	37° 24.9' N 22° 46.1' E	FI.W. period 5s fl. 0.8s, ec. 4.2s	253 77	7	Metal framework; 13.	
15132 <i>E 4107</i>	-Ormos Navpliou, pier, head.	37° 33.3' N 22° 43.2' E	FI.R. period 3s fl. 0.3s, ec. 2.7s	26 8	4	Concrete column on 6-sided hut, red band.	Visible 107°-338°.
15134 <i>E 4106.2</i>	-Kiveri, N. breakwater, head.	37° 31.7' N 22° 44.0' E	FI.Y. period 1.5s fl. 0.2s, ec. 1.3s	23 7	3	Metal column with gallery and red band on metal framework; 16.	
15134.5 <i>E 4106</i>	--S. mole, head.	37° 31.5' N 22° 44.1' E	F.R.	20 6	3	White metal column, red band; 13.	
15135 <i>E 4107.5</i>	Nea Kios.	37° 35.0' N 22° 44.9' E	FI.R. period 2s fl. 0.3s, ec. 1.7s	20 6	3	Metal framework with gallery and column, red band.	
15136 <i>E 4108</i>	--Akra Panayias.	37° 33.8' N 22° 47.6' E	FI.W. period 1.5s fl. 0.3s, ec. 1.2s	36 11	5	Metal framework on white round hut.	
15140 <i>E 4109</i>	--Breakwater, head.	37° 34.0' N 22° 47.5' E	FI.G. period 3s fl. 0.3s, ec. 2.7s	33 10	3	Column with gallery on 6-sided hut, green band; 26.	
15143 <i>E 4110.6</i>	-Tolo Bay, pier, head.	37° 30.9' N 22° 51.5' E	2 F.R.	20 6	3	White metal column with red band; 16.	1 meter apart.
15144 <i>E 4110.4</i>	-Akra Skala.	37° 30.2' N 22° 52.5' E	FI.(2)W.R. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 8s	75 23	W. R. 6 4	White round hut with metal framework; 23.	W. 207°-315°, R.-343°, W.-075°, obscured elsewhere.
15148 <i>E 4110</i>	--Nisis Tolo, Akra Megali.	37° 30.5' N 22° 51.3' E	FI.W. period 2s fl. 0.3s, ec. 1.7s	82 25	3	White round hut with metal framework; 20.	
15152 <i>E 4111</i>	-Limin Khaidhari.	37° 31.3' N 22° 56.1' E	FI.(3)W.R. period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 10.5s	39 12	W. R. 5 3	Metal framework on hut; 20.	W. 301°-046°, R.-058°, W.-220°.
15154 <i>E 4111.5</i>	-Iria, fishing harbor, S. mole, head.	37° 28.7' N 22° 59.9' E	F.G.	20 6	3	Metal column, green band.	
15156 <i>E 4112</i>	-Nisis Ipsili.	37° 25.8' N 22° 58.1' E	FI.W. period 5s fl. 0.5s, ec. 4.5s	52 16	9	White round hut, metal framework tower; 20.	Visible 301°-157°.
15160 <i>E 4113</i>	-Ormos Koiladhos, Akra Kokkina.	37° 25.4' N 23° 06.8' E	FI.W. period 3s fl. 0.3s, ec. 2.7s	20 6	4	White pyramid; 13.	
15161 <i>E 4113.5</i>	--Pier, head.	37° 25.1' N 23° 07.7' E	2 F.G. (vert.)	26 8	3	White metal column; 23.	1 meter apart.
15164 <i>E 4114</i>	-Akra Korakas.	37° 21.2' N 23° 04.1' E	FI.W. period 7s fl. 1s, ec. 6s	39 12	11	White round hut; 10.	Visible 311°-131°.
15168 <i>E 4103</i>	-Nisis Petrokaravo, N. extremity.	37° 17.1' N 23° 04.8' E	FI.(2)W. period 9s fl. 0.3s, ec. 1.2s fl. 0.3s, ec. 7.2s	72 22	7	Metal framework; 10.	
15172 <i>E 4118</i>	-Limin Kheliou, entrance, N. side.	37° 18.9' N 23° 07.6' E	FI.W. period 1.5s fl. 0.3s, ec. 1.2s	72 22	5	White square hut with 2 pilasters; 23.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
GREECE							
15174 <i>E 4118.3</i>	-Cheli, SE. entrance.	37° 18.5' N 23° 08.1' E	FI.G. period 3s fl. 0.3s, ec. 2.7s	26 8	3	White hexagonal hut with column and gallery, green band.	
15176 <i>E 4100</i>	-Nisos Spetsai.	37° 15.8' N 23° 10.0' E	FI.W.R. period 5s fl. 0.2s, ec. 4.8s	89 27	W. 18 R. 14	White round tower and dwelling; 34.	W. 124°-254°, R.-278°, W.-330°, obscured elsewhere.
15180 <i>E 4101</i>	--Ormos Balitza, entrance, E. side.	37° 15.8' N 23° 10.0' E	Q.R.	16 5	3	White metal framework, red band; 13.	
15184 <i>E 4102</i>	--Limin Dipias, E. pier, head.	37° 16.2' N 23° 09.5' E	F.R.	20 6	3	White metal column, red band.	F.G. 3M marks W. pier head.
15188 <i>E 4099</i>	--Akra Mavrovavos.	37° 14.8' N 23° 10.0' E	FI.W.R. period 2s fl. 0.4s, ec. 1.6s	23 7	W. 5 R. 3	White round hut with metal framework; 16.	W. 199°-314°, R.-333°, W.-019°, obscured elsewhere.
15192 <i>E 4120</i>	-Akra Mouzaki.	37° 21.0' N 23° 16.7' E	L.FI.W. period 7.5s fl. 2.5s, ec. 5s	75 23	4	Metal framework tower; 13.	Visible 127°-037°.
15196 <i>E 4124</i>	-Nisos Dhokos, Stenon Petasi, N. side.	37° 20.0' N 23° 21.4' E	FI.(2)W.R. period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 9.5s	75 23	W. 6 R. 4	White round tower, dwelling; 30.	W. 219°-341°, R.-026°, W.-063°.
15200 <i>E 4126</i>	-Limin Idhras, E. jetty.	37° 21.2' N 23° 28.0' E	FI.R. period 1.5s fl. 0.3s, ec. 1.2s	34 10	3	White round hut with metal framework and red band; 16.	
15204 <i>E 4130</i>	--W. jetty, head.	37° 21.1' N 23° 28.0' E	F.G.	16 5	2	White stone column, green band.	
15208 <i>E 4127</i>	--E. breakwater, head.	37° 21.1' N 23° 28.0' E	F.R.	20 6	2	White stone column with red band.	
15210 <i>E 4119</i>	-Akra Aimilianos.	37° 17.3' N 23° 12.0' E	FI.W.R. period 10s fl. 0.5s, ec. 9.5s	23 7	W. 8 R. 6	Hexagonal hut with column and gallery.	W. 193°-314°, R.-357°, W.-070°, obsc.-193°.
15212 <i>E 4122</i>	-Akra Kastri.	37° 23.1' N 23° 15.7' E	FI.W. period 1.5s fl. 0.3s, ec. 1.2s	72 22	4	White square hut with two pilasters; 13.	
15216 <i>E 4134</i>	Akra Zourvas.	37° 21.9' N 23° 34.7' E	FI.(3)W. period 20s fl. 0.1s, ec. 3.2s fl. 0.1s, ec. 3.2s fl. 0.1s, ec. 13.3s	119 36	17	Square tower on dwelling; 33.	Visible 128°-023°.
15218 <i>E 4134.5</i>	Fourkari, Soupia Installation, W. groyne, head.	37° 25.4' N 23° 29.1' E	FI.R. period 3s fl. 0.3s, ec. 2.7s	20 6	3	Metal framework and gallery, metal column with red band; 20.	
15219 <i>E 4134.6</i>	--E. groyne, head.	37° 25.4' N 23° 29.1' E	FI.G. period 3s fl. 0.3s, ec. 2.7s	20 6	3	Metal framework and gallery, metal column with green band; 20.	
15220 <i>E 4135</i>	Nisoi Tselevinia, Nisis Skilli.	37° 26.7' N 23° 32.8' E	FI.W. period 3s fl. 0.6s, ec. 2.4s	102 31	8	White round hut; 10.	Visible 078°-010°.
15224 <i>E 4136</i>	-Nisis Ayios Yeoryios.	37° 27.8' N 23° 56.2' E	FI.(2)W. period 15s fl. 0.1s, ec. 4.9s fl. 0.1s, ec. 9.9s	476 145	17	White lantern house; 33.	Obscured 116°-169°.
SARONIKOS KOLPOS:							
-Nisos Poros:							
15228 <i>E 4140</i>	--Akra Dana.	37° 31.7' N 23° 25.6' E	FI.W.R. period 5s fl. 0.5s, ec. 4.5s	102 31	W. 8 R. 5	Square tower on house; 29.	W. 026°-200°, R.-209°, W.-266°.
15232 <i>E 4140.3</i>	--Akra Nedha.	37° 31.2' N 23° 25.6' E	FI.R. period 2s fl. 0.3s, ec. 1.7s	20 6	3	Metal column on white round hut, red band; 16.	Visible 299°-214°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
GREECE							
15236 <i>E 4141</i>	--Akra Stavros, island, S. point.	37° 29.7' N 23° 27.8' E	Fl.G.R. period 3s fl. 0.3s, ec. 2.7s	23 7	4	Metal framework tower on dwelling; 10.	G. 253°-284°, R.-309°, G.-110°, obsc.-253°.
15240 <i>E 4141.2</i>	-Methana, S. point.	37° 34.5' N 23° 23.4' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	23 7	3	White square cement column with gallery, green band; 16.	Q.G. 7m 3M and Q.R. 7m 3M mark marina entrance.
15244 <i>E 4141.37</i>	--Pier, head.	37° 34.8' N 23° 23.6' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework with gallery, metal column, green band; 16.	
15248 <i>E 4154</i>	-Nisis Moni, W. point.	37° 41.2' N 23° 25.4' E	Fl.(2)W.R.G. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	85 26	W. 11 R. 8 G. 8	White lantern house on square masonry base; 16.	W. 296°-322°, R.-336°, W.-075°, G.-165°, W.-173°, R.-187°, W.-223°.
15252 <i>E 4144</i>	--Akra Plakakia.	37° 45.7' N 23° 25.1' E	Fl.(2)W. period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 12.5s	36 11	7	Round masonry tower; 30.	
	-Nisos Aiyina:						
15256 <i>E 4148</i>	--Aiyina, N. mole, head.	37° 44.7' N 23° 25.5' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	23 7	7	White round hut with metal framework; 17.	
15260 <i>E 4149</i>	---Near root.	37° 44.7' N 23° 25.6' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	23 7	4	Metal framework on white round hut, red band; 18.	
15264 <i>E 4150</i>	--SE. mole, head.	37° 44.7' N 23° 25.6' E	Fl.G. period 1.5s fl. 0.2s, ec. 1.3s	23 7	3	Metal framework on white round hut, green band.	
15266 <i>E 4153</i>	-Ayia Marina, pier, head.	37° 44.7' N 23° 32.3' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	16 5	3	Metal framework tower, gallery and column, green band.	
15268 <i>E 4152</i>	-Akra Tourlos.	37° 45.8' N 23° 33.9' E	Fl.W. period 3.6s fl. 0.5s, ec. 3.1s	92 28	5	White square hut, metal framework; 16.	Visible 177°-024°.
15270 <i>E 4151</i>	-Leonti, mole, head.	37° 46.4' N 23° 28.1' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework with gallery; 20.	
15272 <i>E 4158</i>	-Nisos Lagousa, E. point.	37° 48.9' N 23° 28.5' E	L.Fl.W. period 7.5s fl. 2s, ec. 5.5s	39 12	5	Metal framework tower; 16.	Visible 130°-049°.
15276 <i>E 4141.5</i>	--Vathi, W. side of Khersonisos Methanon.	37° 35.7' N 23° 20.3' E	F.R.	39 12	3	White concrete column, red band; 33.	
15280 <i>E 4141.6</i>	-Limin Palaias Ediphavron, Akra Yiannouzaina (Kalamaki).	37° 38.5' N 23° 10.2' E	Fl.W. period 2s fl. 0.4s, ec. 1.6s	33 10	6	White round hut; 13.	Visible 185°-095°.
15284 <i>E 4141.64</i>	--N. side of channel.	37° 38.3' N 23° 09.7' E	Q.G.	16 5	3	Concrete column on pedestal, green band; 10.	
15288 <i>E 4141.66</i>	--S. side.	37° 38.3' N 23° 09.7' E	Q.R.	16 5	3	Concrete column on pedestal, red band; 16.	
15292 <i>E 4141.7</i>	--Pier, head.	37° 38.3' N 23° 09.5' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	26 8	3	White hexagonal hut with column, red band; 23.	Visible 253°-280°.
15296 <i>E 4141.8</i>	-Ormos Neas Epidhavrou.	37° 40.8' N 23° 09.2' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	23 7	3	White hexagonal hut with column and red band; 20.	Visible 257°-331°.
15300 <i>E 4141.9</i>	-Spalathronisi.	37° 42.2' N 23° 14.2' E	Fl.W. period 8s fl. 0.4s, ec. 7.6s	121 37	6	White metal column; 7.	
15304 <i>E 4142</i>	-Ormos Sofikou.	37° 46.6' N 23° 07.8' E	Fl.W. period 4s fl. 0.2s, ec. 3.8s	36 11	5	White square hut with pilasters.	

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GREECE							
15308 <i>E 4143</i>	-Nisis Euraios, NE. point.	37° 51.7' N 23° 08.7' E	Fl.W. period 10s fl. 0.5s, ec. 9.5s	157 48	7	White metal column; 13.	
15312 <i>E 4160</i>	--Kalamaki, mole, W. side.	37° 55.0' N 23° 00.6' E	Iso.R. period 2s	33 10	10	White mast, red band; 26.	
-Dhiorix Korinthou Entrance:							
15316 <i>E 4160.4</i>	--Breakwater, N. side, NE. head.	37° 54.9' N 23° 00.7' E	Iso.G. period 2s	26 8	10	White metal framework tower, green band; 23.	
15320 <i>E 4162</i>	-Akra Sousaki.	37° 54.8' N 23° 03.5' E	Fl.G. period 10s fl. 0.2s, ec. 9.8s	30 9	12	Round stone tower, dwelling; 26.	Visibility may be reduced by bright shore lights.
15324 <i>E 4168</i>	-Akra Kokhi.	37° 52.5' N 23° 27.0' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	112 34	9	Round masonry tower, dwelling; 43.	
15328 <i>E 4167</i>	-Nisidhes Kanakia.	37° 54.3' N 23° 23.6' E	Fl.W. period 6s fl. 0.3s, ec. 5.7s	56 17	5	White round hut, metal framework; 16.	
15336 <i>E 4164</i>	-Akra Karas.	37° 57.4' N 23° 25.0' E	Fl.W. period 4s fl. 0.4s, ec. 3.6s	26 8	8	Metal framework on white round hut; 16.	
15340 <i>E 4164.4</i>	-Nisis Revithousa.	37° 57.6' N 23° 24.4' E	Fl.W. period 1.5s fl. 0.2s, ec. 1.3s	30 9	6	Column on white hexagonal hut; 23.	
15344 <i>E 4163.3</i>	-Nisis Pakhi, E. head.	37° 57.9' N 23° 22.1' E	Fl.W.R. period 3s fl. 0.4s, ec. 2.6s	43 13	W. R. 5 3	Column and gallery on white hexagonal hut; 26.	W. 145°-030°, R.-054°, W.-078°, obsc.-145°.
15346 <i>E 4163</i>	-Ormos Pakhi.	37° 58.4' N 23° 21.7' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	16 5	3	Metal framework; 10.	
15347 <i>E 4163.2</i>	-E. mole, head.	37° 58.5' N 23° 21.8' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework structure with gallery and column, green band.	
15348 <i>E 4163.5</i>	-Drmos Paches, W. pier, head.	37° 58.3' N 23° 22.8' E	2 F.R. (vert.)	39 12	3	White metal column.	Private light.
15352 <i>E 4163.6</i>	--E. pier, head.	37° 58.3' N 23° 22.8' E	2 F.R. (vert.)	20 6	3	White metal column.	Private light.
15356 <i>E 4165</i>	-Makronisos, W. head.	37° 58.0' N 23° 24.6' E	Fl.G. period 3s fl. 0.4s, ec. 2.6s	46 14	3	White hexagonal hut with column, green band; 23.	
15370 <i>E 4169.5</i>	-Selinia, pier, head.	37° 56.0' N 23° 32.2' E	2 F.R. (vert.)	23 7	3	White metal column.	
15372 <i>E 4169</i>	-Nisis Atalandi.	37° 56.0' N 23° 34.0' E	Fl.W.R. period 1.5s fl. 0.3s, ec. 1.2s	26 8	W. R. 4 2	Metal framework on round hut; 16.	W. 095°-065°, R.-095°.
15376 <i>E 4170</i>	-Nisis Psittalia.	37° 56.6' N 23° 35.7' E	Fl.(2)W. period 15s fl. 0.3s, ec. 3.4s fl. 0.3s, ec. 11s	154 47	25	Round tower on dwelling; 46.	
15378 <i>E 4170.1</i>	--Pier, head.	37° 56.6' N 23° 35.3' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	30 9	3	Metal framework tower with gallery, metal column and red band; 23.	
15380 <i>E 4170.2</i>	--SW. head.	37° 56.2' N 23° 34.9' E	Fl.G. period 1.5s fl. 0.2s, ec. 1.3s	46 14	3	Metal framework; 16.	
15384 <i>E 4171.5</i>	-Akra Keos, mole, head.	37° 57.0' N 23° 35.9' E	Fl.(2)G. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	46 14	9	White round tower with green band.	

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GREECE							
15388 <i>E 4170.4</i>	-Akra Kinosoura.	37° 56.9' N 23° 34.8' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	39 12	4	White square hut, metal framework, red band; 23.	
15390 <i>E 4170.5</i>	-Kinosoura Shipyard, jetty, head.	37° 57.0' N 23° 33.2' E	F.R.	16 5	2	White metal column, red band; 23.	Private light.
15392 <i>E 4170.6</i>	-Ormos Ambelakia, Khandris, pier.	37° 57.1' N 23° 33.0' E	2 F.G. (vert.)	16 5	3	White column, green band; 9.	1 meter apart. Private light.
15402 <i>E 4170.82</i>	--SE. jetty.	37° 57.6' N 23° 32.6' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework with green band; 16.	Visible 181°-090°.
15404 <i>E 4174.86</i>	--Titan Pier, head.	38° 02.0' N 23° 32.5' E	2 F.R. (vert.)	33 10	2	White metal column, red band; 30.	1 meter apart. F.R. 3M and F.G. 3M mark mole heads of fishing harbor 0.5 mile ENE. Private light.
15408 <i>E 4175.7</i>	--Tourkolimano, pier, head.	38° 01.9' N 23° 30.6' E	Iso.R. period 2s	36 11	9	Hexagonal concrete column, white and red bands; 26.	
	-Kolpos Elevsinos:						
15412 <i>E 4175.54</i>	--Cement factory pier, NW. corner.	38° 03.0' N 23° 32.0' E	3 F.R.	33 10	3	White metal column; 26.	Private light.
15420 <i>E 4175</i>	--E. breakwater, head.	38° 02.2' N 23° 32.2' E	Fl.(2)G. period 12s fl. 0.3s, ec. 1.4s fl. 0.3s, ec. 10s	19 6	3	Metal framework with green band; 13.	
15424 <i>E 4175.52</i>	---Main pier.	38° 02.4' N 23° 31.9' E	2 F.R. (vert.)	39 12	2	White metal column, red band; 33.	Private light.
15428 <i>E 4175.5</i>	--Naval pier, head.	38° 02.3' N 23° 32.0' E	3 F.R. (vert.)	39 12	2	White metal column; 33.	1 meter apart.
15432 <i>E 4174.84</i>	--Kalimpaki, pier, head.	38° 02.3' N 23° 33.6' E	2 F.R. (vert.)	20 6	3	Metal framework, gallery and column.	1 meter apart. Private light.
15436 <i>E 4174.83</i>	--Airport, pier head, about 460 meters NW. of Texaco pier.	38° 02.2' N 23° 35.2' E	F.R.	16 5	3	White metal column, red band; 13.	
15440 <i>E 4174.82</i>	--Sidenor, pier, head.	38° 02.1' N 23° 35.4' E	3 F.G. (vert.)	30 9	3	White metal column, green band.	1 meter apart. Private light.
15444 <i>E 4174.8</i>	--Texaco, pier, head.	38° 02.1' N 23° 35.5' E	2 F.G. (vert.)	30 9	6	White metal mast, green band; 23.	Private light.
15448 <i>E 4174.78</i>	--Koumondoros, pier, head.	38° 01.8' N 23° 35.7' E	3 F.G. (horiz.)	26 8	3	White metal mast, green band; 20.	Private light.
15449 <i>E 4174.79</i>	--Pier, head.	38° 01.5' N 23° 35.6' E	2 F.G. (horiz.)	26 8	3	Metal mast, green band; 16.	Private light.
15450 <i>E 4174.73</i>	--Mobil oil pier, head.	38° 01.3' N 23° 35.6' E	3 F.G. (vert.)	43 13	5	White metal column, green band; 30.	1 meter apart. Private light.
15450.1 <i>E 4174.74</i>	---110 meters from pier, head.	38° 01.3' N 23° 35.7' E	F.R.	92 28	3	White metal column, red band; 69.	Private light.
15452 <i>E 4174.77</i>	--Shipyard, jetty, head.	38° 00.2' N 23° 35.4' E	2 F.G. (vert.)	20 6	3	White metal column, green band; 10.	1 meter apart. Private light.
15456 <i>E 4174.7</i>	--Ormos Palaska, mole, head.	37° 59.9' N 23° 34.9' E	Q.G.	20 6	4	White round hut, metal column, green band; 13.	
15460 <i>E 4174.6</i>	--Megali Kira.	38° 00.0' N 23° 33.4' E	Fl.W. period 2.5s fl. 0.3s, ec. 2.2s	23 7	5	Metal framework; 13.	
15462 <i>E 4176.3</i>	--Nea Peramos.	38° 00.0' N 23° 25.2' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	26 8	3	Metal framework, gallery and column, green band; 20.	

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GREECE							
15464 E 4176	--Nisos Salamis, NE. point.	38° 00.2' N 23° 29.1' E	Fl.W.R. period 3s fl. 0.3s, ec. 2.7s	23 7	W. R.	4 3	Metal framework tower; 13. W. 072°-093°, R.-164°, W.- 277°, obscured elsewhere.
15466 E 4176.5	--Nisos Leros.	37° 59.7' N 23° 32.1' E	2 F.R. (vert.)	26 8		3	White metal column; 23. 1 meter apart.
15468 E 4174.4	--Akra Amfiali (Ormos Skaramanga), W. breakwater.	37° 59.5' N 23° 34.0' E	Q.R.	26 8		3	Metal framework; 13.
15472 E 4174.2	--Nisos Arpidhoni, W. extremity.	37° 59.3' N 23° 33.5' E	Fl.W. period 1.5s fl. 0.1s, ec. 1.4s	23 7		5	Metal framework on white round hut; 16.
15476 E 4174	--Akra Filatouri.	37° 58.8' N 23° 33.1' E	Fl.(2)W. period 14s fl. 0.5s, ec. 1.2s fl. 0.5s, ec. 11.8s	44 13		5	Metal square hut and column on dwelling; 13.
	-Perama:						
15480 E 4173	--Limeniskos Neon, breakwater, head.	37° 58.3' N 23° 33.2' E	F.R.	20 6		2	White metal column, red band; 10.
15489	--Limeniskos Alieon, pier, head.	37° 57.8' N 23° 33.2' E	Fl.R. period 3s	20 6		3	
15496 E 4172.6	--W. pier, head.	37° 57.6' N 23° 34.5' E	2 F.R. (vert.)	20 6		3	White metal column, red band; 16.
	-Limin Irakleous:						
15510 E 4172.2	--Pipeline.	37° 57.3' N 23° 36.5' E	F.Y.				
15516 E 4177.2	--Ormos Foron, T-jetty, S. head.	37° 56.8' N 23° 36.8' E	2 F.G. (vert.)	30 9		3	White metal column, green band; 16. 1 meter apart. 3 F.R. (vert.) on chimney 950 meters NNE. Private light.
15520 E 4177.4	--Loading pier, head.	37° 56.7' N 23° 36.9' E	F.G.	30 9		3	White metal mast, green band; 23. Private light.
15524 E 4178	--Molos Themistokleus, head.	37° 56.3' N 23° 37.3' E	L.F.I.G. period 6s fl. 2s, ec. 4s	43 13		9	Round concrete tower, green band; 33.
15528 E 4180	--Molos Vasileus Yeoryios, head.	37° 56.4' N 23° 37.4' E	L.F.I.R. period 6s fl. 2s, ec. 4s	46 14		9	Round concrete tower, red band; 33.
15536 E 4182	--Limin Zeas, S. breakwater, head.	37° 56.0' N 23° 39.2' E	Fl.(2)R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	33 10		7	White hexagonal with column and gallery, red band; 16. 4 F.W. 52m (occas) lights mark stadium 1800 meters NE. Fl.G. 3M and Fl.R. 3M lights shown inside marina.
15540 E 4182.4	--N. breakwater, head.	37° 56.0' N 23° 39.1' E	Fl.(2)G. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	26 8		4	Metal framework; 16.
15544 E 4186	--Limin Mounikhias, N. breakwater, head.	37° 56.3' N 23° 39.7' E	F.I.G. period 3s fl. 0.5s, ec. 2.5s	30 9		6	White round hut metal framework, green band; 16. Visible 205°-145°.
15548 E 4186.2	---S. breakwater, head.	37° 56.2' N 23° 39.8' E	Iso.R. period 2s	33 10		8	Metal framework with red band; 13. Visible 109°-049°.
15550 E 4187.4	---SE. jetty, head.	37° 56.3' N 23° 39.7' E	Fl.R.	13 4		2	Metal framework with red band; 7.
	-Ormos Falirou:						
15551 E 4187.5	--Neo Falirou Marina, Outer N. mole, head.	37° 56.4' N 23° 40.1' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	26 8		3	White metal framework, gallery, metal column and red band.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
GREECE							
15551.1 <i>E 4187.51</i>	--Inner N. mole, head.	37° 56.4' N 23° 40.1' E	Q.R.		30 9	3 Metal framework, gallery, metal column and red band.	
15551.2 <i>E 4187.52</i>	--Inner S. mole, head.	37° 56.4' N 23° 40.1' E	Q.G.		26 8	3 Metal framework, gallery, metal column and green band.	
15551.5 <i>E 4187.53</i>	---Outer S. mole, head.	37° 56.3' N 23° 40.0' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s		33 10	6 Metal framework, gallery, metal column and green band.	
15552 <i>E 4186.5</i>	--Detached breakwater, W. end.	37° 56.7' N 23° 40.0' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s		30 9	3 White metal framework, green band; 10.	
15552.5 <i>E 4186.6</i>	--E. end.	37° 56.1' N 23° 40.3' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s		30 9	3 White metal framework, red band; 10.	
15553 <i>E 4187.54</i>	--River Ilissos. Mouth, center.	37° 56.4' N 23° 40.8' E	Fl.Y. period 3s fl. 0.3s, ec. 2.7s		20 6	3 Metal framework, gallery, metal column and yellow band.	
15560 <i>E 4188.2</i>	--Submerged breakwater.	37° 56.1' N 23° 41.1' E	Q.G.		20 6	4 White hexagonal hut on pedestal, green band; 10.	
15562 <i>E 4189.2</i>	--S. breakwater, head.	37° 56.2' N 23° 41.2' E	Fl.R.		16 5	2 Metal column; 10.	
15562.2 <i>E 4189</i>	--N. breakwater, head.	37° 56.2' N 23° 41.2' E	Fl.G.		13 4	2 Metal column; 26.	
15568 <i>E 4189.556</i>	-Flisvos, N. mole, head.	37° 56.1' N 23° 40.9' E	Q.R.		36 11	3 White metal framework, gallery, metal column and red band; 23.	
15568.5 <i>E 4189.55</i>	--Breakwater, W. end.	37° 56.2' N 23° 40.8' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s		23 7	7 Metal framework with gallery, metal column red band; 20.	
15569 <i>E 4189.5</i>	--S. mole, head.	37° 56.1' N 23° 40.7' E	Fl.G. period 4s fl. 0.5s, ec. 3.5s		36 11	9 Metal framework with gallery, column, green band; 20.	
15569.1 <i>E 4189.552</i>	---Elbow.	37° 56.1' N 23° 40.8' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s		36 11	3 White metal framework, gallery, metal column and green band; 20.	Visible 105°-322°.
15569.2 <i>E 4189.554</i>	--Entrance.	37° 56.1' N 23° 40.8' E	Q.G.		33 10	3 White metal framework, gallery, metal column and green band.	Visible 142°-345°.
15572 <i>E 4189.6</i>	-Limin Alimos Marina, SW. breakwater, head.	37° 54.8' N 23° 42.1' E	Fl.G. period 3s fl. 1s, ec. 2s		33 10	9 White hexagonal hut, column and gallery, green band; 26.	
15576 <i>E 4189.8</i>	--NE. breakwater, head.	37° 54.7' N 23° 42.2' E	Fl.R. period 3s		33 10	9 White hexagonal hut, column and gallery, red band; 26.	
15578 <i>E 4190</i>	-Akra Kosma.	37° 53.6' N 23° 42.7' E	Q.(9)W. period 15s		30 9	5 W. CARDINAL YBY, beacon, topmark; 49.	
15580 <i>E 4191</i>	-Ellinikon, N., AVIATION LIGHT.	37° 53.0' N 23° 44.0' E	Al.W.G. period 6s		49 15	15 Airport control tower.	
15582 <i>E 4190.6</i>	-Olympic Sailing Center, entrance.	37° 52.9' N 23° 43.5' E	Fl.G. period 4s fl. 0.5s, ec. 3.5s		36 11	3 Metal framework tower, gallery, green band; 16.	
15584 <i>E 4192</i>	-Vrakhoi Mermingia.	37° 50.4' N 23° 44.0' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s		23 7	4 Metal framework; 20.	
15586 <i>E 4192.3</i>	-Voula, mole, head.	37° 50.3' N 23° 45.7' E	Fr.R.		26 8	3 White metal column, red band.	
15588 <i>E 4194</i>	-Ormos Vouliagmenis, on islet.	37° 48.0' N 23° 47.0' E	Fl.(3)R. period 12s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 7s		31 9	7 White hexagonal hut with column and gallery, red band.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
GREECE							
15592 <i>E 4193</i>	Nisis Fleves, summit.	37° 46.0' N 23° 45.5' E	Fl.(3)W. period 10s fl. 0.3s, ec. 1.7s fl. 0.3s, ec. 1.7s fl. 0.3s, ec. 5.7s	134 41	8	White pyramid with gallery; 10.	Visible 285°-161°.
15596 <i>E 4198</i>	-Ormos Anavissou.	37° 43.1' N 23° 56.0' E	Q.W.R.	26 8	W. 3 R. 2	White metal framework tower; 16.	W. 219°-036°, R.-047°.
15598 <i>E 4199</i>	-Limin Anavissou, mole, head.	37° 43.2' N 23° 56.7' E	F.G.	26 8	3	White metal column, green band; 23.	
15600 <i>E 4200</i>	-Akra Katafiyi.	37° 40.4' N 23° 56.3' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	56 17	4	Metal column on white hut; 10.	
15604 <i>E 4202</i>	-Nisis Patroklou Gaidouronisis, N. side.	37° 39.5' N 23° 57.5' E	L.Fl.W. period 10s fl. 2s, ec. 8s	23 7	6	Metal column on white hut; 13.	
DHIAVLOS MAKRONISOU:							
15608 <i>E 4204</i>	-Makronisos, Akra Angalistros.	37° 38.8' N 24° 06.4' E	Fl.(2)W. period 14s fl. 1s, ec. 2s fl. 1s, ec. 10s	105 32	12	Round hut; 13.	Visible 207°-168°.
15612 <i>E 4208</i>	-Akra Fonias, channel, W. side.	37° 41.2' N 24° 04.4' E	Fl.W. period 2.5s fl. 0.5s, ec. 2s	43 13	6	White round metal framework; 20.	
15614 <i>E 4208.5</i>	-Ormos Gaidhouromandra.	37° 41.8' N 24° 03.7' E	Fl.R. period 4s fl. 1s, ec. 3s	23 7	12	Metal framework with gallery, metal column, red band.	
15616 <i>E 4209</i>	-Akra Ergastiria.	37° 42.8' N 24° 04.0' E	Fl.W. period 1.5s fl. 0.3s, ec. 1.2s	23 7	4	Metal framework tower on hut.	Visible 148°-081°.
15616.1 <i>E 4209.1</i>	-Lavrio, N. mole, head.	37° 42.5' N 24° 04.1' E	F.G. period 3s fl. 0.5s, ec. 2.5s	26 8	5	STARBOARD (A) G, beacon.	
15617 <i>E 4209.5</i>	-Ormos Thorikos, S. entrance.	37° 44.0' N 24° 03.3' E	F.R.	20 6	3	White metal column, red band; 13.	
15618 <i>E 4209.51</i>	--N. entrance.	37° 44.0' N 24° 03.3' E	F.G.	20 6	3	White metal column, green band; 13.	
15620 <i>E 4210</i>	-Akra Vrisaki.	37° 44.7' N 24° 04.9' E	Fl.W. period 5s fl. 0.1s, ec. 4.9s	69 21	16	Masonry tower on dwelling; 26.	Visible 186°-006°.

Section 11

Kikladhes Islands, Crete and East Coast of Greece

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
GREECE-KIKLADHES							
NISOS KEA:							
15624 <i>E 4218</i>	-Akra Tameios.	37° 31.0' N 24° 17.0' E	Fl.(2)W. period 15s fl. 0.1s, ec. 4.9s fl. 0.1s, ec. 9.9s	197 60	17	Round tower, dwelling.	
15628 <i>E 4212</i>	-Ormos Ayiou Nikolaou.	37° 40.1' N 24° 18.5' E	Fl.(2)W. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	105 32	15	Square tower on octagonal dwelling.	
15632 <i>E 4214</i>	--Akra Ayiou Savva, entrance, S. side.	37° 39.8' N 24° 18.8' E	Fl.W. period 1.5s fl. 0.3s, ec. 1.2s	69 21	5	White round hut with metal framework.	
15636 <i>E 4215</i>	--Ormos Livadhi, pier, head.	37° 39.8' N 24° 18.7' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal framework, gallery and column; 22.	
NISOS KITHNOS:							
15640 <i>E 4223</i>	-Akra Ayios Dhimitris.	37° 17.8' N 24° 21.4' E	Fl.W. period 10s fl. 1.5s, ec. 8.5s	75 23	12	Iron framework tower on base, red band.	Visible 281°-160°.
15642 <i>E 4225</i>	-Ormos Merikha.	37° 23.2' N 24° 23.5' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework with gallery and metal column.	
15644 <i>E 4224</i>	-Ormos Merikhas.	37° 23.6' N 24° 23.1' E	Fl.W.R. period 5s fl. 0.5s, ec. 4.5s	75 23	W. 5 R. 3	Metal framework tower on hut.	W. 315°-340°, R.-030°, W.-173°.
15648 <i>E 4220</i>	-Akra Kefalos.	37° 28.7' N 24° 26.0' E	Fl.W. period 4s fl. 0.2s, ec. 3.8s	177 54	9	Metal framework tower on hut.	Visible 065°-341°.
15652 <i>E 4222</i>	-Ormos Loutron.	37° 26.3' N 24° 25.7' E	Fl.W. period 1.5s fl. 0.3s, ec. 1.2s	46 14	5	White round hut with column.	
15653 <i>E 4222.5</i>	--Breakwater, head.	37° 26.6' N 24° 25.7' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal framework, gallery and column.	
NISOS ANDROS:							
15656 <i>E 4332</i>	-Akra Kastri.	37° 52.0' N 24° 43.0' E	Fl.W. period 6s fl. 1s, ec. 5s	223 68	8	Metal framework with gallery; 36.	
15659 <i>E 4332.3</i>	--Mole, head.	37° 53.0' N 24° 44.0' E	Q.G.	26 8	3	White metal framework with gallery tower, green band; 20.	
15660 <i>E 4332.5</i>	-Ormos Gavriou, Akra Marmara.	37° 52.0' N 24° 44.0' E	Fl.R.G. period 2s fl. 0.2s, ec. 1.8s	50 15	3	White hexagonal hut with concrete column; 20.	R. 248°-005°, G.-178°, obscured elsewhere.
15664 <i>E 4333</i>	-Akra Kolona.	37° 51.0' N 24° 46.0' E	Fl.W. period 3s fl. 0.2s, ec. 2.8s	69 21	5	Iron framework structure.	Visible 237°-156°.
15672 <i>E 4330</i>	-Akra Fassa.	37° 57.8' N 24° 42.1' E	L.Fl.W. period 10s fl. 2s, ec. 8s	659 201	22	Round tower on dwelling; 59.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
GREECE-KIKLADHES							
15676 <i>E 4338</i>	-Akra Gria.	37° 53.7' N 24° 57.0' E	Fl.W. period 10s fl. 0.5s, ec. 9.5s	282 86	25	Round masonry tower, dwelling; 36.	
15680 <i>E 4334</i>	-Ormos Kastrou, Nisis Tourlitis, entrance to port.	37° 50.5' N 24° 56.7' E	Fl.(2)W. period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 12s	62 19	6	Round stone tower; 23.	Visible 063°-312°.
15684 <i>E 4336</i>	--Mole, head.	37° 50.0' N 24° 56.0' E	Fl.G. period 2s fl. 0.2s, ec. 1.3s	26 8	3	Metal framework; 20.	
15688 <i>E 4337.5</i>	-Akra Ayiou Kosma.	37° 46.0' N 25° 00.0' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	223 68	7	Round iron beacon.	Visible 136°-013°.
	-Ormos Korthiou:						
15692 <i>E 4336.5</i>	--Ayias Aikaterinis.	37° 46.0' N 24° 58.0' E	Fl.W. period 1.5s fl. 0.2s, ec. 1.3s	46 14	4	Iron structure; 8.	Visible 222°-100°.
15700 <i>E 4342</i>	Vrakhoi Kaloyerai.	38° 09.3' N 25° 17.5' E	Fl.(2)W. period 15s fl. 0.1s, ec. 4.9s fl. 0.1s, ec. 9.9s	124 38	17	White pyramid with gallery; 10.	
NISOS SIROS:							
15704 <i>E 4312</i>	-Akra Trimeson.	37° 31.0' N 24° 53.0' E	Fl.(2)W. period 14s fl. 0.6s, ec. 1.4s fl. 0.6s, ec. 11.4s	203 62	12	White metal tower, masonry base; 11.	Visible 064°-289°.
15708 <i>E 4308</i>	-Nisis Dhidhimi, W. summit.	37° 26.0' N 24° 58.0' E	Fl.W. period 6s fl. 1s, ec. 5s	223 68	12	Round masonry tower; 96.	
15712 <i>E 4306</i>	-Nisis Aspro.	37° 23.6' N 24° 59.7' E	Fl.(2)W. period 12s fl. 0.5s, ec. 1.2s fl. 0.5s, ec. 9.8s	171 52	7	Iron tower with column.	
15714 <i>E 4307</i>	-Akhladhi, Varis Bay, mole, head.	37° 23.2' N 24° 56.5' E	Fl.R. period 4s fl. 0.3s, ec. 3.7s	26 8	3	Metal framework with gallery, column, red band; 20.	
15716 <i>E 4316</i>	-Akra Vinglostasi.	37° 22.0' N 24° 53.0' E	Fl.(3)W. period 12s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 5s	246 75	6	Iron round tower, framework column; 16.	Visible 251°-151°.
15720 <i>E 4314</i>	-Dhimitra, Foinikes Bay.	37° 23.6' N 24° 52.4' E	Fl.R. period 1.5s fl. 0.2s, ec. 1.3s	23 7	4	Metal framework; 13.	Visible 198°-085°.
15721 <i>E 4315</i>	-Finikas Bay, S. mole, head.	37° 23.3' N 24° 52.8' E	F.G.	26 8	3	White metal column, green band.	
15721.1 <i>E 4314.8</i>	--Poseidonia, N. mole, head.	37° 23.2' N 24° 52.9' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework with gallery, column, green band.	
15721.2 <i>E 4314.7</i>	---S. mole, head.	37° 23.2' N 24° 52.9' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework with gallery, column, red band.	
15722 <i>E 4313</i>	-Psathonisi.	37° 23.2' N 24° 51.6' E	Fl.W. period 2s fl. 0.3s, ec. 1.7s	23 7	5	Round hut, metal framework.	
15723 <i>E 4312.5</i>	-Kinion Bay, mole, head.	37° 26.8' N 24° 53.8' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework, gallery and metal column.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
GREECE-KIKLADHES							
15724 E 4310	-Akra Kondoyiannis.	37° 26.0' N 24° 57.0' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	59 18	5	White hut, two pillars; 21.	
15728 E 4311	-Limin Ermoupolis, N. breakwater, head.	37° 26.2' N 24° 56.9' E	Fl.G. period 3s	33 10	9	White column with gallery on hexagonal pedestal, green band; 26.	
15732 E 4311.2	--S. breakwater, head.	37° 26.0' N 24° 56.9' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	36 11	9	White hexagonal hut, column and gallery, red band; 29.	
15733 E 4311.7	--Oil supply platform.	37° 26.0' N 24° 55.0' E	F.Y.	39 12	3	Metal column; 32.	
NISOS TINOS:							
15736 E 4318	-Nisis Dhisvato.	37° 40.0' N 24° 58.0' E	Fl.W. period 10s fl. 0.3s, ec. 9.7s	108 33	16	Square masonry tower; 30.	
15738 E 4320	-Nisis Planitis.	37° 39.0' N 25° 04.0' E	Fl.(2)W. period 14s fl. 0.6s, ec. 1.4s fl. 0.6s, ec. 11.4s	262 80	10	White metal framework tower on square hut.	
15744 E 4322	-Akra Livadha.	37° 37.0' N 25° 15.0' E	Fl.W. period 15s fl. 1.5s, ec. 13.5s	135 41	7	Square tower, dwelling.	Reserve light F.W.
15752 E 4326	--N. jetty, head.	37° 32.2' N 25° 09.6' E	Fl.R. period 2s fl. 0.2s, ec. 1.8s	23 7	3	Column on hexagonal pedestal, red band.	
15756 E 4327	--N. mole, head.	37° 32.0' N 25° 09.0' E	Fl.R. period 3s fl. 1s, ec. 2s	33 10	7	White hexagonal hut, column and gallery, red band; 28.	
15758 E 4328	-Agios Romanos, fishing harbor, breakwater, head.	37° 34.2' N 25° 06.7' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal framework with gallery, metal column and green band.	
NISOS SERIFOS:							
15760 E 4230	-Akra Kiklops.	37° 07.0' N 24° 25.0' E	Fl.(2)W. period 14s fl. 0.3s, ec. 1.2s fl. 0.3s, ec. 12.2s	220 67	9	Round hut.	
15764 E 4228	-Akra Spathi.	37° 06.0' N 24° 30.0' E	Fl.(3)W. period 30s fl. 0.3s, ec. 4.7s fl. 0.3s, ec. 4.7s fl. 0.3s, ec. 19.7s	219 67	19	Square tower, dwelling; 32.	
15768 E 4232	-Akra Pounda, mole, head.	37° 08.5' N 24° 31.1' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	23 7	3	Metal framework; 13.	
15769 E 4233	-Livadhion, pier, head.	37° 08.6' N 24° 30.9' E	2 F.R. (vert.)	20 6	3	White metal column, red band; 16.	1 meter apart.
NISOS SIFNOS:							
15772 E 4234	-Akra Fillippos, on rock.	37° 02.6' N 24° 38.1' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	138 42	9	Metal framework; 10.	
15776 E 4234.5	-Akra Kokkala.	37° 00.0' N 24° 39.2' E	Fl.(2)W. period 10s fl. 0.6s, ec. 1s fl. 0.6s, ec. 7.8s	154 47	9	Metal framework on white square hut; 23.	
15784 E 4235.4	--Limin Kamaron.	36° 59.4' N 24° 39.9' E	Fl.G. period 1.5s fl. 0.2s, ec. 1.3s	26 8	3	White metal framework tower, green band.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
GREECE-KIKLADHES							
15788 <i>E 4236.4</i>	-Akra Maistros.	36° 55.4' N 24° 40.8' E	Fl.W. period 2s fl. 0.3s, ec. 1.7s	108 33	7	Metal framework tower.	Visible 332°-253°.
15789	-Platis Yialos, mole, head.	36° 55.8' N 24° 44.0' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal framework with gallery, metal column and green band.	
15789.1	--Mole, head.	36° 55.8' N 24° 44.0' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal framework with gallery, metal column and red band.	
15792 <i>E 4237</i>	-Akra Stavros.	36° 56.4' N 24° 45.2' E	Fl.W. period 1.5s fl. 0.3s, ec. 1.2s	85 26	5	Hut, concrete column; 20.	Visible 256°-147°.
15796 <i>E 4304</i>	Nisis Nata, W. summit, SE. of Nisos Siros.	37° 22.0' N 25° 04.0' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	56 17	6	Metal framework tower on hut.	
NISOS MIKONOS:							
15800 <i>E 4303</i>	-Nisidhes Prassonisia.	37° 24.0' N 25° 18.0' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	82 25	6	Round iron tower on hut.	Visible 278°-271°.
15804 <i>E 4302</i>	-Akra Armenistis.	37° 29.3' N 25° 18.7' E	Fl.W. period 10s fl. 1s, ec. 9s	604 184	22	Octagonal tower on dwelling; 62.	Visible 022°-241°.
15805 <i>E 4300.31</i>	-Tourlos, NW. quay, head.	37° 27.8' N 25° 19.1' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal column with gallery on metal framework, green band.	
15805.2 <i>E 4300.32</i>	--SE. quay, head.	37° 27.6' N 25° 19.4' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal column with gallery on metal framework, red band.	
15806 <i>E 4300.2</i>	-Limeras Mikonos, N. mole, head.	37° 27.1' N 25° 19.6' E	Fl.R. period 3s fl. 0.2s, ec. 2.8s	30 9	3	White hexagonal hut with column and gallery, red band.	
15808 <i>E 4300</i>	-Limin Mikonou, S. breakwater, head.	37° 26.9' N 25° 19.5' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	30 9	3	White hexagonal hut with column, green band; 25.	
15812 <i>E 4299</i>	-Nisis Khatapodhia.	37° 24.6' N 25° 33.9' E	Fl.(2)W. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	427 130	10	White pyramid, gallery; 14.	
NISOS PAROS:							
15816 <i>E 4284</i>	-Nisidhes Portes, islet, NE. head.	37° 05.8' N 25° 05.9' E	Fl.(2)W. period 10s fl. 0.8s, ec. 2s fl. 0.8s, ec. 6.4s	72 22	7	White metal framework; 17.	
15820 <i>E 4289</i>	-Salange Islet.	37° 02.9' N 25° 05.3' E	Fl.W.R. period 4s fl. 0.3s, ec. 3.7s	37 11	W. 5 R. 3	Metal framework tower on white square hut.	R. 341°-016°, W.-135°, R.- 161°, W.-341°.
15821 <i>E 4289.4</i>	Andiparos, pier, head.	37° 02.0' N 25° 05.0' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	23 7	3	White metal framework tower, red band.	
15824 <i>E 4286</i>	-Agios Fokas.	37° 05.3' N 25° 07.8' E	Fl.W. period 4s fl. 0.6s, ec. 3.4s	36 11	6	Metal framework tower on white round hut; 26.	Visible 226°-157°.
15826 <i>E 4288</i>	-Paroika Reef.	37° 05.0' N 25° 08.4' E	Fl.(2)W. period 10s	23 7	6	ISOLATED DANGER BRB, tower, topmark.	
15832 <i>E 4298</i>	-Nisis Mirmingas.	37° 12.0' N 25° 04.0' E	Fl.W. period 5s fl. 0.6s, ec. 4.4s	56 17	8	White square hut with two columns.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
GREECE-KIKLADHES							
15836 <i>E 4290</i>	-Akra Korakas, W. side of entrance to Ormos Naousis.	37° 09.2' N 25° 13.5' E	L.F.I.W. period 12s fl. 2s, ec. 10s	197 60	14	Square tower on dwelling; 33.	Visible 059°-311°.
15840 <i>E 4291</i>	-Naoussa harbor, N. breakwater, head.	37° 08.5' N 25° 14.1' E	Fl.R. period 1.5s fl. 0.3s, ec. 1.2s	36 11	3	White hexagonal hut with column and gallery, red band; 26.	
15844 <i>E 4293</i>	-Vrakhos Amaridhes, off E. coast.	37° 03.0' N 25° 19.1' E	Fl.W.R. period 4s fl. 0.4s, ec. 3.6s	34 10	W. 5 R. 3	Concrete column on hexagonal pedestal.	W. 015°-185°, R.-015°.
15848 <i>E 4292</i>	-Akra Kratzi, Ormos Marmara, entrance, S. side.	37° 03.0' N 25° 17.0' E	Fl.(3)W.G. period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 10.5s	76 23	W. 12 G. 10	Round hut.	G. 250°-260°, W.-250°.
15852 <i>E 4282</i>	Nisis Strongilo, SW. of Nisos Paros.	36° 56.0' N 24° 57.0' E	Fl.(2)W. period 14s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 11.5s	164 50	5	Iron column with mast, masonry base; 19.	Visible 300°-182°.
15856 <i>E 4283</i>	Nisis Dhespotiko, Akra Koutsouras.	36° 58.9' N 25° 01.5' E	Fl.W. period 4s fl. 0.4s, ec. 3.6s	128 39	5	White round hut with metal framework.	Visible 122°-042°.
15860 <i>E 4294</i>	Nisos Irakleia, Ormos Ayios Georgios.	36° 52.3' N 25° 28.5' E	Fl.W. period 1.5s fl. 0.3s, ec. 1.2s	69 21	5	Metal framework on white square hut; 19.	
15864 <i>E 4294.1</i>	Nisos Skhoinousa, Ormiskos Mersinia.	36° 51.3' N 25° 30.5' E	Fl.W. period 4s fl. 0.4s, ec. 3.6s	33 10	6	Metal framework tower on pedestal.	
15865 <i>E 4294.15</i>	-N. rock.	36° 53.4' N 25° 32.6' E	Fl.W. period 7s fl. 0.8s, ec. 6.2s		6	Metal framework with gallery and column.	
15866 <i>E 4294.4</i>	-Vrakhonisidha Plaki.	36° 51.7' N 25° 37.4' E	Fl.(2)W. period 8s fl. 0.8s, ec. 1.5s fl. 0.8s, ec. 4.9s		8	Metal framework with gallery and column.	
15868 <i>E 4294.2</i>	Koufonisia.	36° 55.9' N 25° 35.4' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	30 9	3	Round metal tower, framework column; 16.	Visible 270°-133°.
15869 <i>E 4294.3</i>	Pargianos, W. mole, head.	36° 55.8' N 25° 36.0' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal framework and gallery, metal column, red band; 20.	
15870 <i>E 4294.35</i>	-E. mole, head.	36° 55.8' N 25° 35.9' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework and gallery, metal column, green band; 20.	
15872 <i>E 4294.5</i>	Kopria.	36° 59.1' N 25° 38.2' E	Fl.(2)W. period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 9.5s	246 75	10	Metal tower.	
NISOS NAXOS:							
15876 <i>E 4295</i>	-Akra Stavros.	37° 12.3' N 25° 32.2' E	Fl.(2)W. period 16s fl. 1s, ec. 2s fl. 1s, ec. 12s	164 50	13	Metal framework; 10.	
15880 <i>E 4293.6</i>	-Ormos Naxou, N. breakwater, head.	37° 06.4' N 25° 21.9' E	Fl.R. period 4s fl. 0.5s, ec. 3.5s	26 8	7	White round hut, column; 17.	
15884 <i>E 4295.5</i>	Akra Kaloterousa.	37° 08.0' N 25° 50.0' E	Fl.(3)W. period 15s fl. 0.3s, ec. 1.2s fl. 0.3s, ec. 1.2s fl. 0.3s, ec. 11.7s	482 147	10	Round hut.	Visible 084°-323°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
GREECE-KIKLADHES							
NISOS MILOS:							
15888 <i>E 4246</i>	-Nisis Paximadhi, N. Milos, off SW. point.	36° 37.8' N 24° 19.0' E	Fl.(2)W. period 15s fl. 1s, ec. 2s fl. 1s, ec. 11s	95 29	12	Round hut.	Visible 273°-183°.
15892 <i>E 4248</i>	-Nisidhes Ananes.	36° 33.0' N 24° 08.7' E	Fl.(3)W. period 12s fl. 0.3s, ec. 1.3s fl. 0.3s, ec. 1.3s fl. 0.3s, ec. 8.5s	279 85	9	Metal hut.	
15896 <i>E 4244</i>	-Nisos Andimilos, Akra Kokhlidi.	36° 47.0' N 24° 13.0' E	Fl.W. period 2s fl. 0.3s, ec. 1.7s	197 60	8	Metal framework tower on pedestal.	Visible 312°-170°.
15900 <i>E 4240</i>	-Nisidhes Akradhia, NW. point of W. islet.	36° 46.8' N 24° 23.4' E	Fl.W. period 10s fl. 1s, ec. 9s	289 88	10	Square tower, dwelling; 23.	
15904 <i>E 4242</i>	-Ormos Milou, Akra Bombardha.	36° 43.2' N 24° 26.1' E	Fl.W. period 5s fl. 1s, ec. 4s	118 36	12	White lantern house; 13.	
15906 <i>E 4242.2</i>	--Adhamas marina, mole, head.	36° 43.5' N 24° 26.9' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework and gallery, metal column with red band; 20.	
15908 <i>E 4242.4</i>	--Mikobar, jetty, head.	36° 42.5' N 24° 27.9' E	Fl.R.	59 18	3	Metal column on loading gantry.	
15912 <i>E 4239</i>	-Akra Pelekoudha.	36° 46.1' N 24° 31.7' E	Fl.W. period 2s fl. 0.3s, ec. 1.7s	56 17	5	Metal column on white round hut; 16.	
15916 <i>E 4249</i>	-Voudhia, jetty, head.	36° 45.0' N 24° 32.0' E	Fl.R.	52 16	3		
15920 <i>E 4252</i>	-Nisis Poliaigos.	36° 46.0' N 24° 39.0' E	Fl.W. period 5s fl. 0.2s, ec. 4.8s	453 138	19	Round tower, dwelling; 29.	
15924 <i>E 4250</i>	-Nisis Ayios Evstathios, N. head.	36° 46.6' N 24° 35.0' E	Fl.(3)W. period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 10.5s	85 26	6	Metal framework, gallery; 13.	Visible 033°-000°.
15926	Nisos Kimolos, S.	36° 46.4' N 24° 34.0' E	Q.(6)+L.Fl.W. period 15s	20 6	5	S. CARDINAL YB, beacon, topmark.	
15928 <i>E 4238</i>	-Ormos Semina.	36° 48.3' N 24° 35.6' E	Fl.G. period 5s fl. 1s, ec. 4s	36 11	5	White square framework, green band; 13.	
15932 <i>E 4256</i>	Nisos Folegandros.	36° 38.1' N 24° 51.7' E	Fl.(3)W. period 30s fl. 0.1s, ec. 4.9s fl. 0.1s, ec. 4.9s fl. 0.1s, ec. 19.9s	229 70	17	White round tower and dwelling; 36.	Visible 306°-138°.
15936 <i>E 4258</i>	-Ormos Karavostasi, N. entrance point.	36° 36.9' N 24° 57.2' E	Fl.W.R. period 6s fl. 0.5s, ec. 5.5s	49 15	W. 10 R. 7	Metal framework; 13.	R. 202°-248°, W.-322°, R.-344°, W.-096°.
15937 <i>E 4259</i>	--Mole, head.	36° 37.0' N 24° 57.0' E	Q.G.	26 8	3	Metal framework on white hexagonal hut, green band; 21.	
15940 <i>E 4260</i>	Nisos Sikinos, Ormos Skala, E. entrance point.	36° 40.4' N 25° 08.6' E	Fl.W. period 5s fl. 1s, ec. 4s	59 18	8	White round hut with column; 16.	
15941 <i>E 4261</i>	-Skala, mole, head.	36° 40.5' N 25° 08.4' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	26 8	5	Metal framework, gallery and column; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
GREECE-KIKLADHES							
15944 <i>E 4262</i>	Nisos Ios, Ormos Iou, Akra Fanari.	36° 43.2' N 25° 15.6' E	Fl.W. period 5s fl. 0.8s, ec. 4.2s	108 33	9	Square tower on house; 30.	
15945 <i>E 4263</i>	-Agia Eirini, breakwater, head.	36° 43.6' N 25° 16.2' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	26 8	3	Metal framework with gallery.	
15948 <i>E 4296</i>	Nisis Mikros Avelos.	36° 49.7' N 25° 23.8' E	Fl.(3)W. period 10s fl. 0.5s, ec. 1.2s fl. 0.5s, ec. 1.2s fl. 0.5s, ec. 6.1s	131 40	7	Round hut.	
15950 <i>E 4266.3</i>	Nisos Thira, Vlikhadhes, marina, W. mole, head.	36° 20.1' N 25° 26.1' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	26 8	4	Metal framework with gallery and column, red band.	
15950.2 <i>E 4266.31</i>	--E. mole, head.	36° 20.2' N 25° 26.1' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	26 8	4	Metal framework with gallery and column, green band.	
15952 <i>E 4266</i>	-Akra Akrotiri.	36° 21.5' N 25° 21.3' E	Fl.W. period 5s fl. 1s, ec. 4s	328 100	24	Square tower and dwelling; 33.	
15954 <i>E 4266.5</i>	-Katsouni, breakwater, head.	36° 23.1' N 25° 25.6' E	Fl.G. period 3s fl. 0.4s, ec. 2.6s	26 8	5	Metal framework, gallery and column, green band.	
15956 <i>E 4267</i>	-Nisis Nea Kaimeni.	36° 23.9' N 25° 24.2' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	26 8	5	White round hut, metal framework; 16.	
15960 <i>E 4268</i>	-Thira Skala.	36° 25.0' N 25° 26.0' E	Q.R.	23 7	3	Metal framework; 13.	
15964 <i>E 4269</i>	-Nikolaos Point.	36° 27.6' N 25° 22.2' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	26 8	4	White round hut, green band, column; 16.	
15968 <i>E 4270</i>	-Ammoudi Point.	36° 27.9' N 25° 22.1' E	Fl.W. period 4s fl. 0.6s, ec. 3.4s	233 71	10	Metal framework; 16.	
15969 <i>E 4275</i>	Anafi, mole, head.	36° 20.5' N 25° 46.2' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	36 11	5	Metal framework with gallery and column, red band; 23.	
15976 <i>E 4276</i>	Nisidhes Kristiana, Nisis Eskhati.	36° 13.0' N 25° 14.0' E	Fl.(3)W. period 9s fl. 0.3s, ec. 1.2s fl. 0.3s, ec. 1.2s fl. 0.3s, ec. 5.7s	79 24	10	Metal framework; 10.	
15980 <i>E 4295.7</i>	Nisidhes Bouvais, about 37 km. N. of Nisos Amorgos.	37° 14.1' N 25° 55.4' E	Fl.W. period 8s fl. 1s, ec. 7s	184 56	12	Metal framework tower with gallery on hut.	
NISOS AMORGOS:							
15984 <i>E 4278.4</i>	-Akra Langadhia.	36° 55.0' N 25° 58.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	312 95	8	Metal tower; 16.	Visible 289°30'-206°.
15985 <i>E 4278.5</i>	-Aigial, mole, head.	36° 54.2' N 25° 58.5' E	Fl.G. period 3s fl. 0.4s, ec. 2.6s	20 6	5	Metal framework, gallery and column.	
15988 <i>E 4278</i>	-Ormos Katapola, Akra Ayios Ilias.	36° 50.3' N 25° 50.4' E	Fl.(2)W. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	151 46	12	Metal framework tower, red band.	
15992 <i>E 4277.5</i>	-Nisis Grabousa.	36° 49.0' N 25° 45.0' E	Fl.W. period 1.5s fl. 0.3s, ec. 1.2s	45 14	5	Metal framework tower, red band.	Visible 024°-336°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
GREECE-KIKLADHES							
15996 <i>E 4277</i>	-Akra Korax.	36° 46.0' N 25° 48.0' E	Fl.W. period 8s fl. 1s, ec. 7s	249 76	11	Metal tower with gallery.	Visible 263°-090°.
16000 <i>E 4279</i>	Nisidhes Liadhi, northernmost islet.	36° 54.4' N 26° 10.3' E	Fl.(2)W. period 20s fl. 1s, ec. 2s fl. 1s, ec. 16s	214 65	9	Truncated iron pyramid; 12.	
16004 <i>E 4280</i>	Nisis Levitha, Akra Spano.	36° 59.9' N 26° 29.8' E	L.Fl.W. period 10s fl. 2s, ec. 8s	88 27	11	White metal framework tower; 13.	Visible 161°-075°.
GREECE-KRITI (CRETE)							
16008 <i>E 4780</i>	Nisis Agria Gramvousa.	35° 38.8' N 23° 34.5' E	Fl.W.R. period 10s fl. 0.3s, ec. 9.7s	354 108	W. 17 R. 13	White metal beacon, red band, masonry base; 10.	W. 330°-239°, R.-255°, W.-319°, obsc.-330°.
16010 <i>E 4780.4</i>	Kavonisi, NE. mole, head.	35° 30.9' N 23° 38.4' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	23 7	3	Metal column with gallery on metal framework, green band; 18.	
16010.5 <i>E 4780.5</i>	-SW. mole, head.	35° 30.9' N 23° 38.1' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	30 9	3	Metal framework with gallery and metal column, red band; 20.	
16011 <i>E 4780.6</i>	-Kolimvarion, N. mole, head.	35° 33.0' N 23° 46.9' E	Fl.G. period 4s fl. 0.4s, ec. 3.6s	26 8	4	Metal framework with gallery, metal column, green band.	
16011.5 <i>E 4780.7</i>	--S. mole, head.	35° 32.9' N 23° 46.9' E	Fl.R. period 4s fl. 0.4s, ec. 3.6s	26 8	4	Metal framework with gallery, metal column, red band.	
16012 <i>E 4781</i>	Kolpos Khanion, Limin Khanion, entrance, E. side.	35° 31.2' N 24° 01.0' E	Fl.R. period 2.5s fl. 0.1s, ec. 2.4s	85 26	7	Masonry tower; 59.	F.R. and F.G. mark inner mole heads.
16024 <i>E 4783</i>	Akra Maleka.	35° 35.0' N 24° 10.0' E	Fl.(2)W. period 12s fl. 1s, ec. 2s fl. 1s, ec. 8s	156 48	10	Metal framework tower on pedestal.	
16036 <i>E 4784</i>	Akra Dhrapanon.	35° 28.5' N 24° 14.5' E	Fl.(3)W. period 30s fl. 0.3s, ec. 4.7s fl. 0.3s, ec. 4.7s fl. 0.3s, ec. 19.7s	184 56	20	Octagonal tower and dwelling; 33.	Visible 066°-324°.
ORMOS SOUDHAS:							
16040 <i>E 4786</i>	-Nisis Soudhas, fortress, S. part.	35° 29.2' N 24° 09.2' E	Fl.G. period 4.8s fl. 0.8s, ec. 4s	66 20	6	White pyramid, green band; 16.	Visible 245°-120°.
16056 <i>E 4788</i>	-Vlite Pier.	35° 30.3' N 24° 05.5' E	3 F.G. (vert.)	39 12	3	White metal column; 33.	1 meter apart.
16060 <i>E 4788.5</i>	-Jetty head, 0.9 mile W. of Vlite pier.	35° 30.3' N 24° 04.5' E	2 F.G. (vert.)	33 10	3	White metal column, green band; 29.	1 meter apart.
16064 <i>E 4790</i>	Limin Rethimnis, N. mole, head.	35° 22.4' N 24° 29.0' E	Fl.G. period 3s fl. 1s, ec. 2s	33 10	10	Hexagonal hut, column with gallery, green band.	
16068 <i>E 4791.4</i>	-S. mole, head.	35° 22.2' N 24° 29.0' E	Fl.R. period 4s fl. 1s, ec. 3s	39 12	10	White hexagonal hut, column with gallery, red band; 23.	
16072 <i>E 4782.4</i>	-Harbor mole, head.	35° 31.1' N 24° 01.1' E	F.G.	23 7	3	White metal column, green band; 26.	Visible only inside harbor.
16074 <i>E 4791.8</i>	Panormos Bay, N. mole, head.	35° 25.3' N 24° 41.5' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework, gallery and column, green band; 21.	Fl.R. 3s 7m 3M light marks E. mole head.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
GREECE-KRITI (CRETE)							
16075 <i>E 4793</i>	Bali Bay, mole, head.	35° 24.9' N 24° 47.1' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework, gallery and column, green band; 19.	
16076 <i>E 4792</i>	Khondros Kavos.	35° 25.6' N 24° 42.0' E	Fl.W.R. period 6s fl. 1s, ec. 5s	187 57	W. 12 R. 8	White lantern house; 15.	R. shore-097°, W.-270°, obscured elsewhere.
16080 <i>E 4794</i>	Akra Stavros.	35° 26.0' N 24° 59.0' E	Fl.(2)W. period 15s fl. 1s, ec. 2s fl. 1s, ec. 11s	67 20	11	Metal framework with gallery; 20.	
16084 <i>E 4796</i>	Titan cement, loading pier, head.	35° 21.0' N 25° 03.0' E	3 F.R. (vert.)	46 14	3	White metal tower.	1 meter apart.
16085 <i>E 4795</i>	Tsimeda, pier, head.	35° 21.0' N 25° 03.0' E	2 F.R. (vert.)	43 13	3	White metal mast, red band; 26.	1 meter apart.
16088 <i>E 4810</i>	Nisis Dia, N. point.	35° 27.9' N 25° 12.9' E	L.Fl.W. period 12s fl. 2s, ec. 10s	102 31	9	White pyramidal tower.	Visible 067°-284°.
16092 <i>E 4812</i>	-Akra Stavros (Apiri).	35° 25.6' N 25° 14.3' E	Fl.W. period 6s fl. 1s, ec. 5s	423 129	12	White round hut; 15.	Visible 180°30'-112°30'.
16096 <i>E 4813</i>	Nisis Avgo.	35° 36.2' N 25° 34.4' E	Fl.W. period 5s fl. 1s, ec. 4s	188 57	9	Iron tower; 16.	Visible 288°-275°.
LIMIN IRAKLIU:							
16098 <i>E 4797.4</i>	-Boat Harbor, N. mole, head.	35° 21.3' N 25° 02.6' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	23 7	4	Metal framework with gallery, metal column, green band.	
16098.1 <i>E 4797.6</i>	--S. mole, head.	35° 21.3' N 25° 02.6' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	23 7	4	Metal framework with gallery, metal column, red band.	
16100 <i>E 4798</i>	-N. breakwater, head.	35° 21.1' N 25° 09.4' E	L.Fl.G. period 6s fl. 2s, ec. 4s	46 14	9	White hexagonal hut, column and gallery, green band; 39.	F.R. on radio tower 0.85 mile SE.
16104 <i>E 4800</i>	-S. breakwater, head.	35° 20.9' N 25° 09.2' E	L.Fl.R. period 6s fl. 2s, ec. 4s	43 13	9	White round tower on building pilots; 33.	
16120 <i>E 4808</i>	-AVIATION LIGHT.	35° 20.3' N 25° 10.6' E	Al.W.G. period 4s	187 57	15	Control tower.	Aero.
16121 <i>E 4813.3</i>	Ayios Konstandinos, N. mole, head.	35° 20.2' N 25° 17.8' E	Fl.G. period 4s fl. 1s, ec. 3s	30 9	6	Framework tower, gallery and metal column, green band.	
16121.5 <i>E 4813.31</i>	-S. mole, head.	35° 20.2' N 25° 17.8' E	Fl.R. period 4s fl. 1s, ec. 3s	30 9	6	Framework tower, gallery and metal column, red band.	
16122 <i>E 4813.5</i>	Chersonisos, mole, head.	35° 19.2' N 25° 23.6' E	Fl.G. period 2s fl. 0.5s, ec. 1.5s	33 10	5	Metal hexagonal hut, gallery and column, green band; 28.	
16123 <i>E 4813.7</i>	Milatos, N. mole.	35° 19.2' N 25° 33.7' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	20 6	3	Round hut with metal framework, green band.	Fl.R. 3s 3M marks S. mole.
16124 <i>E 4814</i>	Akra Ayios Ioannis.	35° 20.0' N 25° 47.0' E	Fl.(2)W. period 12.8s fl. 0.8s, ec. 3s fl. 0.8s, ec. 8.2s	160 49	11	White round masonry tower, brown dwelling with red roof; 29.	Visible 092°-002°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
GREECE-KRITI (CRETE)							
KOLPOS MERABELLOU:							
16127	-Mirampello, W. mole.	35° 12.6' N 25° 42.9' E	FI.G. period 3s fl. 0.3s, ec. 2.7s	26 8	3	Framework tower, gallery and metal column, green band.	
16127.1	--E. mole.	35° 12.6' N 25° 42.9' E	FI.R. period 3s fl. 0.3s, ec. 2.7s	26 8	3	Framework tower, gallery and metal column, red band.	
16128 <i>E 4816</i>	-Nisis Ayioi Pandes.	35° 12.2' N 25° 43.9' E	FI.W. period 3s fl. 0.3s, ec. 2.7s	79 24	4	White metal framework and dwelling; 23.	
16132 <i>E 4818</i>	--Pier, jetty, head.	35° 12.0' N 25° 43.0' E	FI.R. period 2s fl. 0.8s, ec. 1.2s	33 10	7	Concrete column on hexagonal pedestal, red band; 19.	
16136 <i>E 4819</i>	-Nisis Konidha.	35° 08.0' N 25° 49.0' E	L.FI.W. period 10s fl. 2s, ec. 8s	82 25	4	White round hut, metal framework; 16.	
16138 <i>E 4819.5</i>	-Ormos Altsi, pier, head.	35° 11.0' N 25° 54.0' E	FR.	43 13	3	Metal mast, red band.	Private.
ORMOS SITIAS:							
16140 <i>E 4820</i>	-Akra Vamvakia.	35° 13.0' N 26° 08.0' E	FI.(3)W. period 18s fl. 0.8s, ec. 2s fl. 0.8s, ec. 2s fl. 0.8s, ec. 11.6s	79 24	10	Metal framework tower; 16.	
16143 <i>E 4821</i>	-N. mole, head.	35° 12.7' N 26° 06.8' E	FI.G. period 3s	30 9	8		
16145 <i>E 4822</i>	-Marina, N. mole, head.	35° 12.5' N 26° 06.6' E	FG.	26 8	3	White metal column, green band.	
16146 <i>E 4822.5</i>	--S. mole, head.	35° 12.5' N 26° 06.6' E	FR.	16 5	3	White metal column, red band; 10.	
16152 <i>E 4824</i>	Nisis Paximadha, Kriti, off E. point.	35° 23.0' N 26° 11.0' E	FI.W.R. period 6s fl. 1s, ec. 5s	118 36	W. 12 R. 8	White round hut.	W. 019°-284°, R.-314°, obscured elsewhere.
16156 <i>E 4824.5</i>	Nisis Yianisadha, islet, SE. point.	35° 20.0' N 26° 11.0' E	FI.W.R. period 10s fl. 0.5s, ec. 9.5s	46 14	W. 7 R. 5	Metal framework tower; 10.	R. 275°-280°, W.-304°, R.-310°, W.-052°, obsc.-213°, W.-275°.
16160 <i>E 4826</i>	Akra Sidheros.	35° 19.0' N 26° 19.0' E	FI.W. period 10s fl. 1s, ec. 9s	148 45	18	Round tower, dwelling; 52.	
16164 <i>E 4825</i>	Kiriamadi, on rock.	35° 18.0' N 26° 16.0' E	FI.W.R. period 3s fl. 0.3s, ec. 2.7s	39 12	W. 4 R. 3	Metal framework tower; 20.	R. 149°-156°, W.-308°, R.-357°, W.-149°.
16168 <i>E 4825.5</i>	--Pier, head.	35° 18.0' N 26° 18.0' E	2 FR. (vert.)	29 9	3	White metal framework, red band; 26.	1 meter apart.
16170 <i>E 4827</i>	Kouremenos Bay.	35° 13.0' N 26° 16.3' E	FI.G. period 3s fl. 0.3s, ec. 2.7s	20 6	3	Square hut with metal framework and gallery, green band.	
16172 <i>E 4828</i>	Akra Plaka.	35° 11.9' N 26° 19.1' E	FI.(2)W. period 12s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 8.5s	72 22	10	Metal framework; 13.	Visible 084°-353°.
16176 <i>E 4830</i>	Koufonisi.	34° 56.0' N 26° 08.0' E	FI.(2)W. period 16s fl. 1s, ec. 2s fl. 1s, ec. 12s	239 73	10	Metal framework tower, hut; 19.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
GREECE-KRITI (CRETE)							
16180 <i>E 4829</i>	Nisidhes Kavalloi.	35° 01.6' N 26° 13.8' E	Fl.(3)W. period 12s fl. 0.3s, ec. 1.5s fl. 0.3s, ec. 1.5s fl. 0.3s, ec. 8.1s	95 29	6	Metal framework; 13.	Visible 181°-225°, 252°-063°, 069°-103°.
16182 <i>E 4830.5</i>	Makrys Gyalos Bay.	35° 02.3' N 25° 58.5' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	20 6	3	Round hut with metal framework, red band.	
16184 <i>E 4831</i>	Ierapetra, breakwater, head.	35° 00.0' N 25° 44.0' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	30 9	4	White hexagonal hut, column and gallery, red band.	
16188 <i>E 4833</i>	Akra Theofalos.	34° 59.0' N 25° 30.3' E	Fl.(2)W. period 12s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 8.5s	246 75	10	Metal framework on white round hut; 16.	Visible 262°-086°.
16192 <i>E 4832</i>	Nisis Khrisi.	34° 52.8' N 25° 41.7' E	Fl.(2)W. period 12s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 8.5s	39 12	10	Metal framework on white round hut; 16.	Visible 056°-267°.
16196 <i>E 4833.6</i>	Nisis Megalonis.	34° 55.5' N 24° 48.0' E	Fl.(3)W. period 20s fl. 0.5s, ec. 3s fl. 0.5s, ec. 3s fl. 0.5s, ec. 12.5s	220 67	11	White pyramid with gallery; 20.	
16202 <i>E 4833.7</i>	-Kokkinos Pyrgos.	35° 04.8' N 24° 44.2' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal framework tower with gallery, red band.	
16204 <i>E 4836</i>	Ayios Galinis, on mole.	35° 06.0' N 24° 42.0' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	33 10	3	Metal framework with gallery and red band; 20.	
16208 <i>E 4840</i>	Nisos Gavdos, Akra Tripiti.	34° 48.0' N 24° 07.0' E	Fl.(2)W. period 16s fl. 1s, ec. 2s fl. 1s, ec. 12s	121 37	12	White metal framework tower with gallery; 20.	Visible 224°-120°.
16212 <i>E 4838</i>	Nisis Gavdhopoula, NW. point.	34° 56.0' N 24° 00.0' E	Fl.W. period 8s fl. 1s, ec. 7s	183 56	12	Metal framework; 13.	Visible 327°-295°.
16213	Mavros Limnionas, W. mole, head.	35° 11.9' N 24° 08.2' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework with gallery, metal column and green band.	
16213.1	-E. mole, head.	35° 11.9' N 24° 08.3' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	30 9	3	Metal framework with gallery, metal column and red band.	
16216 <i>E 4842</i>	Nisis Loutron.	35° 11.8' N 24° 05.0' E	L.Fl.W. period 10s fl. 2s, ec. 8s	56 17	6	Metal framework on white round hut; 16.	
16220 <i>E 4844</i>	Nisis Palaiochoras.	35° 13.0' N 23° 40.0' E	Fl.W. period 8s fl. 1s, ec. 7s	52 16	8	Pyramid, gallery; 19.	Visible 259°-217°.
16224 <i>E 4778</i>	Elafonisi, Kriti, off SW. coast.	35° 16.0' N 23° 31.4' E	Fl.(3)W. period 20s fl. 0.5s, ec. 3s fl. 0.5s, ec. 3s fl. 0.5s, ec. 12.5s	141 43	12	Metal framework tower with gallery; 49.	Visible 305°-159°.
16226 <i>E 4779</i>	Tousoula Point.	35° 28.8' N 23° 34.1' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework with gallery and column, green band.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
GREECE							
KOLPOS PETALION:							
16228 <i>E 4451</i>	-Nisis Mandili.	37° 56.0' N 24° 31.0' E	Fl.(3)W. period 20s fl. 1s, ec. 3s fl. 1s, ec. 3s fl. 1s, ec. 11s	272 83	15	Round tower, dwelling; 36.	
16236 <i>E 4345.2</i>	--Inner pier, head.	38° 00.8' N 24° 25.1' E	2 F.R. (vert.)	26 8	3	White metal column; 19.	1 meter apart.
16240 <i>E 4346</i>	-Nisis Paximadhi.	37° 57.0' N 24° 23.0' E	Fl.W. period 5s fl. 0.4s, ec. 4.6s	89 27	4	Iron framework tower, masonry base.	
16244 <i>E 4348</i>	-Nisis Foundion, islet, S. head.	38° 01.8' N 24° 14.9' E	Fl.W. period 3.6s fl. 0.3s, ec. 3.3s	26 8	5	White square hut with two columns; 18.	
16252 <i>E 4346.4</i>	Raftis.	37° 53.0' N 24° 02.7' E	Fl.W. period 2s fl. 0.5s, ec. 1.5s	328 100	9	Metal framework with gallery; 23.	
16256 <i>E 4347</i>	-Akra Velani.	37° 59.0' N 24° 02.0' E	Fl.W. period 1.5s fl. 0.2s, ec. 1.3s	23 7	4	Column on white round hut; 20.	
16263 <i>E 4347.3</i>	Rafina, S. mole, head.	38° 01.3' N 24° 00.7' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework with gallery and metal column, red band.	
16264 <i>E 4347.6</i>	-N. Inner, mole, head.	38° 01.4' N 24° 00.7' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	30 9	3	White hexagonal hut with column and gallery, green band; 26.	
16265 <i>E 4347.8</i>	-Limin Rafinas, N. outer mole, head.	38° 01.5' N 24° 00.8' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	20 6	10	Metal framework with gallery and metal column, green band; 16.	
16266 <i>E 4349.5</i>	-Agios Andreas.	38° 04.3' N 24° 00.1' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	20 6	3	White round hut.	
16268 <i>E 4350</i>	-Nisis Dhipsa.	38° 06.7' N 24° 06.5' E	Fl.W. period 4s fl. 0.2s, ec. 3.8s	56 17	6	White round hut.	
16269 <i>E 4351</i>	-Nea Stira, pier, head.	38° 10.8' N 24° 12.3' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework with gallery and metal column, green band.	
16270 <i>E 4351.3</i>	-Rozani, mole, head.	38° 10.5' N 24° 12.4' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework with gallery and metal column, green band.	
NOTIOS EVVOIKOS KOLPOS:							
16272 <i>E 4354</i>	-Nisidhes Verdhouyi, NW. islet.	38° 11.4' N 24° 05.4' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	56 17	6	White metal framework.	Obscured by Pathenopi Islet.
16276 <i>E 4350.3</i>	-Kouneli Islet.	38° 11.0' N 24° 10.0' E	Fl.W.R. period 1.5s fl. 0.3s, ec. 1.2s	33 10	W. 5 R. 3	Metal framework on square hut.	W. 100°-290°, R.-317°, obsc.-100°.
16280 <i>E 4352</i>	--SE. islet.	38° 11.0' N 24° 06.0' E	Fl.(2)W. period 16s fl. 0.3s, ec. 1.2s fl. 0.3s, ec. 14.2s	33 10	6	White iron tower.	Visible 123°-091°.
16284 <i>E 4355</i>	-Akra Ayios Marina.	38° 12.0' N 24° 04.3' E	Fl.(3)W. period 15s fl. 0.5s, ec. 1.3s fl. 0.5s, ec. 1.3s fl. 0.5s, ec. 10.9s	56 17	7	Metal framework; 23.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
GREECE							
16285 E 4356	--Pier, head.	38° 11.2' N 24° 04.0' E	FI.G. period 2s fl. 0.3s, ec. 1.7s	23 7	3	Metal column on pedestal.	
16286 E 4356.4	-Ormos Almiropotamos, pier, head.	38° 16.0' N 24° 09.4' E	2 F.G. (vert.)	23 7	3	White metal column, green band; 23.	
16287 E 4359.3	-Ormos Boufalo.	38° 18.1' N 24° 07.1' E	FI.G. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework tower, gallery and column, green band.	
16288 E 4358	-Ormos Aliveriou, breakwater, head.	38° 23.0' N 24° 03.0' E	FI.R. period 1.5s fl. 0.2s, ec. 1.3s	24 7	3	Metal framework tower on hut.	
16289 E 4357	--Power station, mole, head.	38° 23.4' N 24° 02.9' E	FI.G. period 4s fl. 1s, ec. 3s	33 10	7	Column and gallery on hexagonal concrete pedestal, green band.	
16292 E 4359	-Milaki, pier, head.	38° 23.0' N 24° 03.0' E	2 F.R. (vert.)	29 9	5	White metal column.	
16294 E 4359.5	-Ormos Ayios Apostoloi, mole, head.	38° 17.7' N 23° 53.9' E	F.R.	26 8	2	White metal column with red band; 16.	
16295 E 4359.75	-Amarinthos, mole, head.	38° 23.4' N 23° 52.6' E	FI.G. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework with gallery, metal column, green band; 20.	
16296 E 4360	-Ormos Oropou, Skala Oropou.	38° 19.6' N 23° 48.4' E	FI.W. period 4s fl. 0.2s, ec. 3.8s	16 5	7	Metal framework tower on hut; 16.	
16300 E 4361	--Oropos, pier, head.	38° 19.3' N 23° 47.5' E	3 F.Or.	23 7	1	White metal column; 20.	
16304 E 4362	-Limin Eretrias (Nea Psara), on rock near head of mole, NW. side of entrance.	38° 23.0' N 23° 47.0' E	FI.W.R. period 1.5s fl. 0.3s, ec. 1.2s	23 7	W. R. 5 3	Metal framework on white round hut.	W. 342°-061°, R.-342°.
16308 E 4366	-Stenon Avlidhos, Akra Avlis.	38° 24.0' N 23° 38.0' E	FI.(2)W. period 12s fl. 1s, ec. 1s fl. 1s, ec. 9s	30 9	6	Square tower on dwelling.	
16310 E 4369	-Ormos Megalo Vathi, pier, head.	38° 25.2' N 23° 35.7' E	2 F.R. (vert.)	20 6		Column; 13.	Private light.
16311 E 4369.4	-Khalkidha Shipyard, pier, head.	38° 25.0' N 23° 36.0' E	3 F.R. (vert.)	23 7	3	White metal mast, red band; 16.	1 meter apart. Private light.
16312 E 4368	-Nisis Passas.	38° 25.7' N 23° 37.0' E	FI.W. period 3s fl. 0.3s, ec. 2.7s	30 9	5	White square hut, metal framework; 18.	Visible 313°-168°.
16316 E 4370	-Akra Perama.	38° 26.5' N 23° 35.9' E	FI.R. period 3s fl. 0.5s, ec. 2.5s	36 11	5	Metal framework on white square hut, red band; 19.	
16317 E 4372	-Dhiavlos Steno, pier, head.	38° 27.0' N 23° 36.0' E	2 F.G. (vert.)	20 6	3	White metal column; 13.	1 meter apart.
16320 E 4371	-Porthmos Evripou, Khalkis.	38° 26.6' N 23° 35.6' E	2 F.R. (vert.)	33 10	3	White metal column, red band; 26.	1 meter apart.
16324 E 4375	-Ikhinos Scala, strait, N. entrance, W. side.	38° 28.0' N 23° 35.0' E	FI.G. period 2s fl. 0.3s, ec. 1.7s	26 8	3	White hexagonal hut, column, green band; 20.	
16328 E 4378	-Kakokefali.	38° 28.0' N 23° 36.0' E	FI.(2)R. period 18s fl. 0.2s, ec. 5.8s fl. 0.2s, ec. 11.8s	68 21	12	Square tower; 39.	
16332 E 4380	-Nea Artaki.	38° 30.8' N 23° 37.7' E	FI.W. period 1.5s fl. 0.3s, ec. 1.2s	30 9	5	White hexagonal hut, column; 19.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
GREECE							
16336 <i>E 4382</i>	-Akra Mnima.	38° 35.0' N 23° 32.0' E	Fl.W. period 3.5s fl. 0.3s, ec. 3.2s	33 10	6	Hexagonal hut with column and gallery on pedestal.	
16340 <i>E 4408</i>	-Larimna.	38° 34.0' N 23° 17.3' E	Fl.W. period 5s fl. 0.3s, ec. 4.7s	26 8	5	White round hut with metal framework.	
16341 <i>E 4408.5</i>	--Quay, W. head.	38° 34.1' N 23° 17.7' E	Fl.R. period 5s fl. 1s, ec. 4s	39 12	9	Pyramid, red band; 32.	
16344 <i>E 4409</i>	-Akra Stalamata.	38° 38.6' N 23° 18.5' E	Fl.(2)W. period 8s fl. 0.3s, ec. 1.2s fl. 0.3s, ec. 6.2s	50 15	7	Iron framework tower, hut.	Visible 113°-302°.
16348 <i>E 4384</i>	-Ormos Limnis, W. point.	38° 45.8' N 23° 18.7' E	Fl.W. period 1.5s fl. 0.2s, ec. 1.3s	85 26	5	White round hut with column.	
16352 <i>E 4412</i>	-Nisis Atalandi, N. point.	38° 41.0' N 23° 05.4' E	Fl.W. period 1.5s fl. 0.2s, ec. 1.3s	33 10	5	White round hut with metal framework.	Visible 043°-266°.
16353 <i>E 4413</i>	--Mole, head.	38° 40.4' N 23° 04.6' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	23 7	3	Metal framework with gallery and metal column with green band.	
16356 <i>E 4413</i>	-Skala Livanates.	38° 42.4' N 23° 08.8' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal framework with gallery, green band.	
16360 <i>E 4416</i>	-Akra Arkitsa.	38° 45.3' N 23° 02.0' E	Fl.(2)W. period 5s fl. 0.2s, ec. 1.5s fl. 0.2s, ec. 3.1s	49 15	19	Square tower, dwelling; 49.	
16372 <i>E 4417</i>	--Ormos Yialtrou.	38° 52.4' N 22° 58.8' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	23 7	5	White round hut, metal framework; 16.	
16374 <i>E 4416.5</i>	-Loutra Aidhipsou, on center of ramp.	38° 51.4' N 23° 02.4' E	3 F.Y.	20 6	3	White metal column.	
DHIAVLOS KNIMIDHOS:							
16375 <i>E 4423</i>	-Kammena Vourla Marina, NE mole, head.	38° 46.9' N 22° 47.1' E	Fl.R. period 4s fl. 0.8s, ec. 3.2s	23 7	6	Metal framework with gallery and column, red band; 20.	
16375.2 <i>E 4423.1</i>	--SW mole, head.	38° 46.9' N 22° 47.1' E	Fl.G. period 4s fl. 0.8s, ec. 3.2s	30 9	6	Metal framework with gallery and column, green band; 20.	
16376 <i>E 4422</i>	-Akra Knimis.	38° 47.0' N 22° 49.0' E	Fl.W.R. period 2s fl. 0.2s, ec. 1.8s	20 6	W. 6 R. 3	White hut; 17.	W. 098°-140°, R.-230°, W.-278°.
16377 <i>E 4418</i>	--S. breakwater, head.	38° 45.0' N 22° 51.0' E	F.G.	23 7	7	Concrete column with green band.	
16378 <i>E 4418.5</i>	--Quay, N. head.	38° 45.5' N 22° 51.4' E	3 F.G.	20 6	3	Concrete column.	
16379 <i>E 4418.7</i>	--Motel Levedi, mole, head.	38° 26.0' N 22° 51.0' E	F.G.	16 5	3	White concrete column with green band.	
16380 <i>E 4420</i>	-Nisoi Likhadnes, Nisis Strongili, summit.	38° 48.5' N 22° 49.2' E	Fl.(2)W.R. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	134 41	W. 12 R. 9	White round masonry tower, dwelling.	R. 113°-293°, W.-113°.
16382 <i>E 4423.5</i>	-Agios Serafeim, fishing harbour, SE end.	38° 49.6' N 22° 42.8' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal framework with gallery, metal column and green band; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
GREECE							
16382.2 E 4423.52	--NW end.	38° 49.7' N 22° 42.7' E	Q.G.	26 8	3	Metal framework with gallery, metal column and green band; 20.	
MALIAKOS KOLPOS:							
16384 E 4430	-Akra Dhrepanon.	38° 52.0' N 22° 45.5' E	Fl.W. period 6s fl. 1s, ec. 5s	23 7	5	Metal framework; 20.	
16388 E 4424	-Akra Khiliomili.	38° 51.0' N 22° 41.8' E	Fl.(3)W. period 15s fl. 0.4s, ec. 1.5s fl. 0.4s, ec. 1.5s fl. 0.4s, ec. 10.8s	33 10	10	Metal round tower, dwelling; 28.	
16392 E 4427	-Ormos Stilidhas, on quay.	38° 54.7' N 22° 36.9' E	Dir.L.Fl.Or. period 10s fl. 2s, ec. 8s	36 11	8	White metal tower with gallery, orange triangular daymark, point down; 33.	Visible 300°-330°.
16396 E 4428.2	--1 km., 137° from light on pier.	38° 54.3' N 22° 37.4' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	23 7	3	Metal framework; 10.	
16400 E 4428	--1 km. 134° from light on pier.	38° 54.3' N 22° 37.5' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	23 7	3	Metal framework; 10.	
16404 E 4425	-Ormos Ayios Marinas, pier, head.	38° 53.4' N 22° 34.8' E	FR.	85 26	3	White metal mast, red band; 7.	Private light.
16406 E 4433	Agronivest Quay, SE. head.	38° 53.0' N 22° 49.0' E	3 F.G.	26 8	3	White metal column.	Lights form inverted L.
16407 E 4433.2	--NW. head.	38° 53.0' N 22° 49.0' E	3 F.R.	26 8	3	White metal column.	Lights form inverted L.
16408 E 4432	-Akra Vasilinas, channel, S. entrance.	38° 52.2' N 22° 51.1' E	Oc.W.G. period 5s lt. 4s, ec. 1s	30 9	W. 14 G. 11	Square masonry tower, dwelling; 32.	G. 025°-041°, W.-252°.
16410 E 4433.5	-St. Sostis Point.	38° 56.6' N 22° 59.3' E	Fl.W. period 8s fl. 1s, ec. 7s	52 16	6	White round hut.	
16412 E 4434	-Ifalos Oreon.	38° 57.2' N 23° 02.8' E	Fl.(2)W. period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 9.5s	16 5	9	ISOLATED DANGER Black round hut, red band, metal tower; 20.	
16416 E 4436	-Skala Oreon, N. pier, head.	38° 57.0' N 23° 05.0' E	Fl.R. period 1.5s fl. 0.2s, ec. 1.3s	23 7	3	Column, red band, on white round hut; 17.	
16417 E 4435	-Neos Pyrgos, mole, head.	38° 56.3' N 23° 04.1' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework, gallery and column, green band; 19.	
16420 E 4440	-Aryironisos.	39° 01.0' N 23° 04.0' E	Fl.W. period 5s fl. 0.1s, ec. 4.9s	105 32	16	Round tower, dwelling; 23.	
16421 E 4441.8	-Pegadi, mole, head.	39° 02.1' N 22° 58.7' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	20 6	3	Metal framework with gallery, metal column and red band.	
16422 E 4441	-Pefki, mole, head.	39° 00.4' N 23° 12.1' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	23 7	3	Metal framework, gallery and column, red band; 19.	
NISOS EVVOIA:							
16424 E 4451.3	-Akra Kafirevs, Nisis Arapis.	38° 09.5' N 24° 36.1' E	Fl.(3)W. period 20s fl. 1s, ec. 3s fl. 1s, ec. 3s fl. 1s, ec. 11s	112 34	10	Metal framework; 7.	Visible 098°-006°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
GREECE							
16428 <i>E 4451.6</i>	-Ormos Petrion, entrance, N. side.	38° 24.5' N 24° 12.5' E	Fl.W. period 5s fl. 1s, ec. 4s	131 40	4	White round hut with metal framework.	Visible 253°-138°.
16432 <i>E 4453</i>	Nisis Prasoudha.	38° 40.0' N 24° 15.0' E	Fl.W. period 5s fl. 1s, ec. 4s	138 42	13	Round masonry tower, dwelling; 59.	
16435 <i>E 4451.8</i>	-Platana, breakwater, head.	38° 36.7' N 24° 07.3' E	Fl.Y. period 2s fl. 0.3s, ec. 1.7s	23 7	3	Metal framework with metal column and gallery.	
16436 <i>E 4452</i>	-Ormos Kimis, S. breakwater.	38° 37.0' N 24° 08.0' E	Fl.R. period 1.5s fl. 0.2s, ec. 1.3s	26 8	2	Concrete column on hut.	
16437 <i>E 4452.2</i>	--E. mole, head.	38° 37.6' N 24° 07.6' E	Fl.G. period 1.5s fl. 0.2s, ec. 1.3s	16 5	2	White round hut on pedestal, green band; 10.	Visible 353°-183°.
16438 <i>E 4452.08</i>	--S. head.	38° 37.2' N 24° 07.6' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	26 8	6	Metal framework, gallery, metal column, green band; 18.	
16441 <i>E 4452.3</i>	-Ag. Grigorios, Khillis harbor.	38° 39.9' N 24° 07.8' E	Fl.W. period 2s fl. 0.3s, ec. 1.7s	30 9	5	White metal framework.	
16442 <i>E 4453.2</i>	Akra Sarakiniko.	38° 46.1' N 23° 42.2' E	Fl.W. period 8s fl. 1s, ec. 7s	85 26	8	Metal framework tower.	
NISOI VORIAI SPORADHES:							
16443 <i>E 4453.9</i>	-Akhili Marina, N. mole, head.	38° 52.1' N 24° 34.2' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework, gallery, metal column, green band.	
16443.1 <i>E 4453.91</i>	--S. mole, head.	38° 52.0' N 24° 34.2' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework, gallery, metal column, red band.	
16444 <i>E 4454</i>	-Akra Lithari.	38° 46.5' N 24° 40.8' E	Fl.(3)W. period 30s fl. 0.1s, ec. 4.9s fl. 0.1s, ec. 4.9s fl. 0.1s, ec. 19.9s	315 96	16	Round tower, dwelling; 40.	Visible 189°-067°.
16445 <i>E 4454.1</i>	-Treis Boukes.	38° 45.7' N 24° 37.1' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	26 8	6	Metal framework tower, green band.	
16446 <i>E 4454.2</i>	-Sarakino Island.	38° 45.4' N 24° 37.5' E	Fl.W. period 4s fl. 0.4s, ec. 3.6s	207 63	7	Metal framework; 10.	Visible 140°-313°.
16447 <i>E 4454.5</i>	-Marmara Point.	38° 45.6' N 24° 34.1' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	30 9	7	Metal framework; 13.	
16448 <i>E 4455</i>	--Akra Latomion.	38° 48.0' N 24° 29.0' E	Fl.W. period 3.3s fl. 0.4s, ec. 2.9s	59 18	5	White lantern house; 13.	
16452 <i>E 4455.3</i>	--Ormos Linaria.	38° 50.0' N 24° 32.0' E	Fl.W.R.G. period 2.5s fl. 0.3s, ec. 2.2s	23 7	W. 6 R. 4 G. 4	Round hut with metal framework; 20.	R. 353°-021°, W.-120°, G.-300°, obsc.-353°.
16456 <i>E 4455.7</i>	--Podhi, Vrakhonisis Notio.	39° 00.0' N 24° 29.0' E	Fl.W. period 3s fl. 0.4s, ec. 2.6s	233 71	6	White round hut; 10.	
16460 <i>E 4455.5</i>	--Nisis Vorio Podhi.	39° 01.0' N 24° 28.0' E	Fl.W. period 10s fl. 1s, ec. 9s	138 42	6	Metal framework tower on pedestal; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
GREECE							
16464 <i>E 4482</i>	-Nisis Psathoua.	39° 30.3' N 24° 11.1' E	Fl.W. period 10s fl. 0.3s, ec. 9.7s	131 40	17	Round masonry tower, dwelling; 82.	
16468 <i>E 4480</i>	-Nisis Pelerissa, SW. of Nisos Pelagos.	39° 18.7' N 24° 02.2' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	82 25	7	White round hut with metal framework.	Visible 270°-189°.
16468.1 <i>E 4478.6</i>	-Alonnisos, N. end.	39° 16.3' N 23° 56.7' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal framework, gallery on metal column, red band.	
16469 <i>E 4479</i>	-Nisis Peristera.	39° 10.9' N 23° 56.4' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	33 10	5	White round hut; 11.	
16470 <i>E 4478.52</i>	-Ormos Patitiri, breakwater, head.	39° 08.7' N 23° 52.0' E	Fl.G. period 1.5s fl. 0.3s, ec. 1.2s	26 8	3	White metal framework tower, green band.	
16471 <i>E 4478.5</i>	--Bay, W. side.	39° 09.0' N 23° 52.0' E	Fl.R. period 1.5s fl. 0.3s, ec. 1.2s	33 10	3	White metal framework tower, red band.	
16472 <i>E 4478</i>	-Akra Telion, Alonnisos, SW. point.	39° 08.5' N 23° 49.8' E	Fl.(3)W. period 12s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 7.2s	69 21	12	White lantern house; 13.	Visible 293°-171°.
16476 <i>E 4476</i>	-Nisis Mikro.	39° 08.6' N 23° 48.6' E	Fl.W. period 4s fl. 0.4s, ec. 3.6s	69 21	6	White lantern house; 13.	Visible 076°-031°.
16477 <i>E 4475.2</i>	-Agnonta Bay, W. side.	39° 05.0' N 23° 42.3' E	Fl.R. period 2s fl. 0.2s, ec. 1.8s	23 7	3	White framework tower with gallery, red band.	
16478 <i>E 4475.22</i>	--E. side.	39° 04.9' N 23° 42.5' E	Fl.G. period 2s fl. 0.2s, ec. 1.8s	33 10	3	White hexagonal hut with column and gallery, green band; 29.	
-Nisos Skopelos:							
16480 <i>E 4474</i>	--Akra Gourouni.	39° 12.0' N 23° 35.0' E	Fl.(3)W. period 30s fl. 1.5s, ec. 3s fl. 1.5s, ec. 3s fl. 1.5s, ec. 19.5s	229 70	20	Square masonry tower, dwelling; 47.	Visible 029°-244°.
16484 <i>E 4475</i>	--Glossa, N. mole, head.	39° 09.8' N 23° 36.8' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	20 6	3	Metal framework; 14.	
16484.5 <i>E 4475.1</i>	--S. mole, head.	39° 09.8' N 23° 36.9' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	20 6	3	Metal framework, gallery, metal column; 11.	
16486 <i>E 4475.15</i>	--Neo Klima, W. mole, head.	39° 08.2' N 23° 38.6' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal framework, gallery, metal column, red band.	
16486.5 <i>E 4475.16</i>	--E. mole, head.	39° 08.3' N 23° 38.6' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework, gallery, metal column, green band.	
16492 <i>E 4475.4</i>	--N. breakwater.	39° 07.5' N 23° 44.1' E	Fl.G. period 2s	23 7	6	Metal framework, gallery and metal column, green band.	
16496 <i>E 4472</i>	-Dhiavlos Skopelou, Nisis Reption.	39° 08.8' N 23° 31.7' E	Fl.(2)W.R. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	131 40	W. 12 R. 8	Round tower, dwelling; 43.	W. 183°-261°, R.-313°, W.- 020°, obsc.-183°. Reserve light F.W.R.
16500 <i>E 4466</i>	-Nisos Skiathos, Prasoniso.	39° 08.3' N 23° 28.2' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	43 13	6	Metal framework; 23.	
16504 <i>E 4468</i>	--Dhaskalonisi.	39° 09.7' N 23° 29.7' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	33 10	5	Metal framework tower; 15.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
GREECE							
16505 E 4467	--Mole, head.	39° 09.7' N 23° 29.6' E	Fl.R. period 1.5s fl. 0.3s, ec. 1.2s	23 7	3	White metal framework tower with gallery and red band; 20.	
NISOS EUVOIA:							
16508 E 4453.5	-Mandoudi, loading pier, head.	38° 49.5' N 23° 31.6' E	2 F.R. (horiz.)	118 36	3	White metal mast.	Private light.
16512 E 4456	-Levkonisia.	38° 57.0' N 23° 27.0' E	Fl.(3)W. period 15s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 10.2s	69 21	10	Metal framework tower, on hut.	Visible 138°-018°.
16516 E 4458	-Akra Artemision.	39° 03.0' N 23° 20.2' E	Fl.(2)W.R. period 15s fl. 0.1s, ec. 4.9s fl. 0.1s, ec. 9.9s	203 62	W. 15 R. 12	White round masonry tower dwelling; 62.	W. 077°-178°, obsc.-187°, W.-194°, R.-234°, W.- 317° obsc.-077°.
DHIAVLOS SKIATHOU:							
16520 E 4464	-Akra Sippias.	39° 11.0' N 23° 21.0' E	L.Fl.W. period 10s fl. 2s, ec. 8s	344 105	10	Beacon.	Visible 161°-032°.
16524 E 4462	-Ifalos Levkari.	39° 08.4' N 23° 20.6' E	Fl.(2)W. period 8s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	36 11	9	ISOLATED DANGER BRB, beacon, topmark; 39.	
16526 E 4461	Ormos Plantanias.	39° 08.4' N 23° 16.5' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	30 9	3	Metal framework with gallery, metal column, green band.	
PAGASITIKOS KOLPOS:							
16528 E 4442	-Akra Kavoulia.	39° 06.0' N 23° 03.0' E	L.Fl.(3)W. period 20s fl. 2s, ec. 3s fl. 2s, ec. 3s fl. 2s, ec. 8s	72 22	20	Square tower and dwelling; 46.	
16528.1 E 4442.5	-Kottai, fishing harbor, pier, head.	39° 06.8' N 23° 05.9' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal column with gallery, green band.	
16529 E 4443	-Ormos Sourpis, Myloi, pier, head.	39° 09.9' N 22° 52.1' E	Fl.R. period 4s fl. 0.6s, ec. 3.4s	23 7	3	Metal framework with gallery, metal column, red band; 16.	
16530 E 4444	-Ormos Sourpis, pier, head.	39° 10.0' N 22° 51.0' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	26 8	5	White metal framework tower, green band.	
16532 E 4445.5	-Mamidhakis, pier, head.	39° 17.5' N 22° 52.8' E	2 F.R. (vert.)	16 5	3	White metal column, red band; 16.	1 meter apart. Private light.
16536 E 4445.7	-Iraklis Volou, W. of pier, head.	39° 18.0' N 22° 56.0' E	2 F.R. (vert.)	26 8	3	White metal column, red band; 19.	1 meter apart.
16540 E 4445.75	--E. of pier, head.	39° 17.8' N 22° 56.3' E	2 F.R. (vert.)	26 8	3	White metal column, red band; 19.	1 meter apart. Private light.
-Kolpos Volos:							
16544 E 4446	--Akra Sesklo.	39° 20.6' N 22° 56.6' E	Fl.W. period 1.5s fl. 0.3s, ec. 1.2s	69 21	7	White square hut, metal framework; 26.	
16548 E 4449	-Limin Volou, oil installation pier, head.	39° 21.0' N 22° 59.3' E	3 F.G. (vert.)	30 9	3	White metal column, green band; 22.	1 meter apart. Private light.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
GREECE							
16552 <i>E 4449.4</i>	--Tsimenta, pier, head.	39° 21.0' N 22° 59.0' E	Fl.(2)W. period 10s fl. 1s, ec. 1s fl. 1s, ec. 7s	59 18	12	White hexagonal hut, column and gallery; 26.	
16553	-Kato Gatzea, pier, head.	39° 18.5' N 23° 06.1' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework with gallery, metal column and red band.	
16554 <i>E 4448</i>	-Anavros River.	39° 22.0' N 22° 57.9' E	Fl.Y. period 2s fl. 0.3s, ec. 1.7s	23 7	4	White metal framework; 18.	
16556 <i>E 4447</i>	--Limin Volou, breakwater, head.	39° 21.0' N 22° 57.0' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	27 8	4	Metal framework on round hut, green band; 20.	
16557 <i>E 4447.1</i>	--Detached breakwater, NE. head.	39° 20.9' N 22° 56.7' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	26 8	7	Metal framework tower with gallery, red band.	
16558 <i>E 4485</i>	Ioannis, E. mole, head.	39° 25.3' N 23° 09.7' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	39 12	3	Metal column, green band.	
16559 <i>E 4485.1</i>	-W. mole, head.	39° 25.1' N 23° 09.6' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	33 10	3	Metal framework, gallery, metal column, red band.	
THERMAIKOS KOLPOS:							
16559.1	-Kermadi, S. mole, head.	39° 34.8' N 22° 56.0' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework, gallery, metal column, red band.	
16559.2	--N. mole, head.	39° 34.9' N 22° 56.0' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	30 9	3	Metal framework, gallery, metal column, green band.	
16560 <i>E 4489</i>	-Akra Dhermatas.	39° 47.8' N 22° 50.9' E	Fl.(2)W. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	246 75	11	White metal framework with gallery.	Visible 131°-345°.
16564 <i>E 4492</i>	-Stomion, Tsayezi, reef.	39° 52.1' N 22° 44.3' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	26 8	5	Metal column on round hut.	
16565 <i>E 4492.2</i>	--S. mole, head.	39° 51.1' N 22° 44.1' E	Fl.G. period 2s fl. 0.2s, ec. 1.8s	23 7	3	Metal framework with gallery and metal column with green band.	
16565.5 <i>E 4492.3</i>	--N. mole, head.	39° 51.2' N 22° 44.1' E	Fl.R. period 2s fl. 0.2s, ec. 1.8s	23 7	3	Metal framework with gallery and metal column with red band.	
16568 <i>E 4494</i>	-Akra Epanomi.	40° 22.6' N 22° 53.5' E	Fl.(3)W. period 18s fl. 0.3s, ec. 1.3s fl. 0.3s, ec. 1.3s fl. 0.3s, ec. 14.5s	36 11	12	Metal framework; 29.	
16572 <i>E 4496</i>	-Akra Akheradha.	40° 21.8' N 22° 39.7' E	Fl.W. period 5s fl. 1s, ec. 4s	39 12	10	Metal framework with gallery on pyramid; 29.	
16576 <i>E 4498</i>	-Akra Megalo Emvolon.	40° 30.1' N 22° 49.1' E	Fl.W. period 10s fl. 0.2s, ec. 9.8s	102 31	15	Round stone tower and dwelling; 33.	
16580 <i>E 4496.5</i>	--Nea Mikhaniona, pier, head.	40° 28.2' N 22° 50.8' E	F.G.	20 6	3	White metal column, green band; 16.	
16580.5 <i>E 4496.57</i>	--Ichthyoskala, N. mole, head.	40° 27.6' N 22° 51.5' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	30 9	3	Metal framework, gallery, metal column, red band; 23.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
GREECE							
16580.6 <i>E 4496.58</i>	---S. mole, head.	40° 27.5' N 22° 51.5' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal framework, gallery, metal column, green band; 16.	
16581 <i>E 4496.6</i>	---W. breakwater, head.	40° 27.8' N 22° 51.2' E	Fl.G. period 2s fl. 0.2s, ec. 1.8s	30 9	3	Hexagonal hut with column and gallery; 26.	
16581.5 <i>E 4496.7</i>	---E. breakwater, head.	40° 27.8' N 22° 51.3' E	Fl.R. period 2s fl. 0.2s, ec. 1.8s	33 10	3	Framework tower with gallery; 26.	
16584 <i>E 4497</i>	-Nisis Axios (Kavoura).	40° 30.6' N 22° 44.9' E	Fl.(2)W. period 15s fl. 0.2s, ec. 4.8s fl. 0.2s, ec. 9.8s	26 8	16	White metal framework tower on building.	
	-RACON		X(- • • -)		7		
16588 <i>E 4500</i>	-AVIATION LIGHT.	40° 31.4' N 22° 58.6' E	Al.W.G. period 6s	33 10	13	Control tower.	
16592 <i>E 4501</i>	-Mooring island.	40° 32.3' N 22° 57.9' E	Fl.R.	13 4	3	Metal column on platform on piles.	F.Y. mark overhead cable.
16596 <i>E 4502</i>	-Akra Mikro Emvolon.	40° 35.0' N 22° 56.0' E	Fl.(3)G. period 15s fl. 0.9s, ec. 1.4s fl. 0.9s, ec. 1.4s fl. 0.9s, ec. 9.5s	52 16	5	Metal framework on white square hut, green band; 20.	
16598 <i>E 4502.41</i>	--Outer pier, head.	40° 34.6' N 22° 56.3' E	F.W.				
16599 <i>E 4502.7</i>	--Scout's jetty.	40° 34.7' N 22° 56.3' E	F.G.	13 4	3	White metal column with green band; 13.	
16600 <i>E 4502.3</i>	--W. breakwater, head.	40° 34.4' N 22° 56.7' E	Fl.G. period 2s fl. 0.5s, ec. 1.5s	26 8	5	White hexagonal hut with column and gallery, green band; 23.	
16604 <i>E 4502.4</i>	--E. breakwater, head.	40° 34.2' N 22° 56.9' E	Fl.R. period 2s fl. 0.5s, ec. 1.5s	29 9	5	White hexagonal hut with column and gallery, red band; 26.	
16608 <i>E 4503</i>	-Ormos Thessalonikis, 050°.	40° 36.5' N 22° 57.0' E	Fl.(3)W. period 20s fl. 0.1s, ec. 3.2s fl. 0.1s, ec. 3.2s fl. 0.1s, ec. 13.3s	30 9	19	White metal framework tower on building.	
	-RACON		A(• -)		7		
16612 <i>E 4503.2</i>	--Off Yacht Club.	40° 36.5' N 22° 57.0' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	20 6	4	Metal framework tower on pedestal, red band; 16.	
16620 <i>E 4506</i>	--Breakwater, SE. head.	40° 37.7' N 22° 56.0' E	Fl.R. period 4s fl. 1.6s, ec. 2.4s	39 12	7	White concrete column with gallery, red band; 30.	
16624 <i>E 4505</i>	---W. head.	40° 37.9' N 22° 55.4' E	Fl.G. period 4s fl. 1.6s, ec. 2.4s	43 13	7	White concrete column with gallery, green band; 36.	
16628 <i>E 4504</i>	--Pier I, harbor office building, SW. corner.	40° 37.8' N 22° 56.2' E	Fl.G. period 4s fl. 1.5s, ec. 2.5s	56 17	10	White metal framework tower green band, on building; 49.	Traffic Signals.
16636 <i>E 4509</i>	--Oil terminal, pier, head.	40° 38.2' N 22° 53.8' E	Fl.(3)W. period 12s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 7s	33 10	10	White hexagonal hut with column and gallery; 26.	
16639 <i>E 4492.9</i>	-Sani Marina.	40° 05.8' N 23° 18.3' E	Q.G.	23 7	3	Metal framework with column and gallery, green band.	Q.R. 7m 3M, Fl.G. 3s 7m 3M, Fl.R. 3s 7m 3M mark nearby moles.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
GREECE							
16640 <i>E 4488</i>	-Akra Kassandra.	39° 58.0' N 23° 23.0' E	Fl.(2)W. period 15s fl. 0.4s, ec. 3.4s fl. 0.4s, ec. 10.8s	62 19	24	Octagonal dwelling; 47.	
KOLPOS KASSANDRAS:							
16644 <i>E 4511</i>	-Akra Paliourian, W. entrance, point.	39° 55.0' N 23° 45.0' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	66 20	7	White square hut, metal framework structure; 16.	
16646	-Pallini.	40° 03.7' N 23° 27.9' E	F.R.	20 6	3	White metal column, red band.	
-Limin Koufo:							
16648 <i>E 4512</i>	--Akra Pagona.	39° 57.5' N 23° 55.0' E	Fl.G. period 3s fl. 0.4s, ec. 2.6s	43 13	5	White square hut with tower, green band; 21.	
16652 <i>E 4512.5</i>	--Spilia.	39° 57.8' N 23° 55.2' E	Fl.R. period 3s fl. 0.4s, ec. 2.6s	52 16	4	White square hut with tower, red band; 20.	
16656 <i>E 4516</i>	-Skaha Gerakini, pier, head.	40° 16.1' N 23° 26.6' E	2 F.R. (vert.)	26 8	3	White metal column.	1 meter apart. Private.
16660 <i>E 4513</i>	-Akra Papadhia.	40° 00.0' N 23° 49.0' E	Fl.W.R. period 3s fl. 0.3s, ec. 2.7s	29 9	W. R. 5 3	Metal framework on round hut.	W. 269°-138°, R.-168°.
16664 <i>E 4515</i>	-Neos Marmaras.	40° 05.0' N 23° 47.0' E	Fl.R. period 1.5s fl. 0.2s, ec. 1.3s	36 11	3	Metal square hut with tower.	
16666 <i>E 4515.4</i>	-Nikiti, inner mole, head.	40° 13.1' N 23° 39.7' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework tower with gallery and metal column, red band.	
16667 <i>E 4515.5</i>	--Outer mole, head.	40° 13.1' N 23° 39.7' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework tower with gallery and metal column, green band.	
SINGITIKOS KOLPOS:							
16668 <i>E 4520</i>	-Akra (Dhrepanon), Psevdhokavos.	39° 56.9' N 23° 59.5' E	Fl.(2)W. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	171 52	10	White metal framework tower on pedestal.	
16670 <i>E 4522.4</i>	-Sykia, pier, head.	40° 02.2' N 23° 59.8' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework with gallery and column.	
16672 <i>E 4522</i>	-Ormos Sikias, Akra Adholo.	40° 02.3' N 24° 00.8' E	Fl.W. period 1.5s fl. 0.2s, ec. 1.3s	36 11	4	White square hut with two pillars.	Visible 161°-291°. Visible inside the bay from 090°.
16676 <i>E 4523</i>	-Ormos Dhimitri.	40° 14.0' N 23° 46.0' E	Fl.G. period 1.5s fl. 0.2s, ec. 1.3s	34 10	3	Metal framework tower on pedestal, green band.	Visible 115°-038°.
16677 <i>E 4523.2</i>	-Panagia, mole, head.	40° 14.1' N 23° 44.0' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	20 6	3	Metal framework with gallery, metal column and green band; 16.	
16680 <i>E 4523.4</i>	-Ormos Pyrgadikia.	40° 20.1' N 23° 43.2' E	Q.R.	20 6	3	Metal framework on white round hut, red band; 13.	
16682 <i>E 4523.9</i>	-Ammoyliani, mole, head.	40° 20.2' N 23° 55.3' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal framework with gallery and column; 20.	
16684 <i>E 4524</i>	-Nisoi Dhrenia.	40° 19.1' N 23° 57.8' E	Fl.W.R. period 2.5s fl. 0.3s, ec. 2.2s	36 11	W. R. 4 3	Metal framework tower; 13.	W. 103°-323°, R.-103°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
GREECE							
16685 <i>E 4525</i>	-Limenas Ouranoupolis, mole, head.	40° 19.6' N 23° 58.7' E	FI.G. period 2s fl. 0.3s, ec. 1.7s	23 7	3	Metal framework with gallery, green band; 20.	
16688 <i>E 4526</i>	-Dhafni.	40° 13.0' N 24° 13.3' E	FI.W. period 2.5s fl. 0.3s, ec. 2.2s	56 17	5	Metal framework on white round hut; 16.	
16689 <i>E 4527.5</i>	-Moni Agiou Pavlou, N. mole, head.	40° 09.4' N 24° 17.0' E	FI.G. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework with gallery, metal column, green band.	
16689.1 <i>E 4527</i>	--S. mole, head.	40° 09.4' N 24° 17.0' E	FI.R. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework with gallery, metal column, red band.	
16692 <i>E 4528</i>	-Akra Pinnes.	40° 07.0' N 24° 18.0' E	FI.(3)W. period 15s fl. 0.3s, ec. 1.2s fl. 0.3s, ec. 1.2s fl. 0.3s, ec. 11.7s	85 26	9	Metal framework on square hut.	Visible 284°-140°.
16696 <i>E 4530</i>	Akra Akraathos.	40° 09.0' N 24° 24.0' E	L.FI.W. period 10s fl. 2s, ec. 8s	154 47	11	Metal framework with gallery on square hut.	Visible 177°-045°.
16697 <i>E 4525.5</i>	Ormos Vatopedioui, Monastery, mole, head.	40° 19.0' N 24° 12.7' E	FI.R. period 3s fl. 0.3s, ec. 2.7s	23 7	3	White metal framework, gallery and red band; 16.	
16698 <i>E 4525.3</i>	Athos Peninsula, Esfigmenos Monastery, mole, head.	40° 21.3' N 24° 08.3' E	FI.G. period 3s fl. 0.3s, ec. 2.7s	26 8	3	White metal framework, gallery and green band; 16.	
16698.1 <i>E 4525.4</i>	--Jetty, head.	40° 21.3' N 24° 08.3' E	FI.R. period 3s fl. 0.3s, ec. 2.7s	23 7	3	White metal framework, gallery and red band; 16.	
16700 <i>E 4533</i>	Ormos Plati, NW. point.	40° 26.3' N 23° 59.7' E	Q.W.	72 22	4	Metal framework; 13.	
16704 <i>E 4532</i>	Nisidhes Stilaria, Akra Arapis.	40° 27.4' N 24° 00.5' E	FI.W. period 2.5s fl. 0.2s, ec. 2.3s	98 30	6	Metal framework; 7.	Visible 049°-307°.
16706 <i>E 4533.6</i>	Limenas Neon Rodhon.	40° 23.0' N 23° 56.0' E	FI.R. period 2s fl. 0.3s, ec. 1.7s	30 9	3	Metal framework with gallery, red band.	
16707 <i>E 4533.7</i>	Ierissos, E. mole, head.	40° 23.8' N 23° 53.5' E	FI.R. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework, gallery, red band.	
16707.5 <i>E 4533.8</i>	-W. mole, head.	40° 23.8' N 23° 53.5' E	FI.G. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework, gallery, green band; 17.	
16708 <i>E 4534</i>	Ormos Stratoni, E. mole.	40° 31.0' N 23° 50.0' E	F.R.	76 23	5	Round stone column.	Private light.
16710 <i>E 4535</i>	Olimbias.	40° 35.5' N 23° 47.4' E	FI.R. period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal framework with gallery and red column.	
16712 <i>E 4536</i>	Nisis Kavkanas, E. head.	40° 37.0' N 23° 48.0' E	FI.(3)W. period 18s fl. 0.3s, ec. 1.3s fl. 0.3s, ec. 1.3s fl. 0.3s, ec. 14.5s	75 23	7	Metal framework on square hut; 16.	
16716 <i>E 4537</i>	Ormos Stavros, mole, head.	40° 40.1' N 23° 42.1' E	FI.R. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal column with gallery on metal framework, red band.	
16720 <i>E 4538</i>	Ormos Elevrhteron, N. side.	40° 50.6' N 24° 19.6' E	FI.W. period 3s fl. 0.4s, ec. 2.6s	66 20	5	Metal framework; 16.	
16728 <i>E 4539.5</i>	Nea Iraklitsa, E. mole, head.	40° 52.1' N 24° 19.1' E	FI.R. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework, gallery, red band.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
GREECE							
16732 E 4539.6	-W. mole, head.	40° 52.0' N 24° 19.0' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework, gallery, green band.	
LIMIN KAVALAS:							
16736 E 4540	-Akra Kara Orman.	40° 55.8' N 24° 24.8' E	Fl.W. period 5s fl. 0.1s, ec. 4.9s	108 33	15	White lantern house; 10.	
16744 E 4542	-N. breakwater, head.	40° 56.1' N 24° 24.4' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	36 11	4	White hexagonal hut with column, red band; 30.	
16748 E 4544	-W. breakwater, head.	40° 55.7' N 24° 23.7' E	Fl.(2)R. period 8s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	36 11	7	Column with gallery on white hexagonal hut, red band; 23.	Visible 044°-005°.
16749 E 4544.6	Ormos Perigiali, S. mole, head.	40° 56.5' N 24° 25.6' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal framework with gallery, red band; 16.	
16749.5 E 4544.4	-N. mole, head.	40° 56.5' N 24° 25.6' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal framework with gallery, green band; 16.	
16752 E 4545	Nea Karvali, breakwater.	40° 57.0' N 24° 28.9' E	Fl.G. period 4s fl. 1s, ec. 3s	43 13	7	Metal framework with gallery, metal column, green band.	
16756 E 4545.3	-Nea Karrali, pier, head.	40° 57.3' N 24° 32.5' E	3 F.R.	33 10	3	White metal framework tower on round hut, red band; 30.	Lights form inverted L.
16760 E 4546	Akra Ammodhis.	40° 51.6' N 24° 37.8' E	Fl.(2)W. period 10s fl. 0.3s, ec. 1.4s fl. 0.3s, ec. 8s	30 9	7	Metal framework on white square hut; 23.	Visible 265°-134°.
ORMOS KERAMOTIS:							
16764 E 4546.3	-Akra Keramotis.	40° 51.4' N 24° 41.3' E	Fl.W.R. period 4s fl. 0.4s, ec. 3.6s	20 6	W. 6 R. 4	Metal framework on white square hut; 19.	W. 095°-081°, R.-095°.
16768 E 4546.6	-Pier, head.	40° 51.5' N 24° 42.2' E	Q.R.G.	23 7	2	Metal column; 16.	R. 107°-151°, G.-107°.
16772 E 4548	Nisis Thasopoula.	40° 49.5' N 24° 43.0' E	Fl.W.R. period 4.5s fl. 0.3s, ec. 4.2s	85 26	W. 6 R. 4	Metal framework tower on pedestal.	R. 237°-260°, W.-102°, obsc.-237°.
NISOS THASOS:							
16775 E 7601	-Prinos, A, B, D, F.	40° 47.8' N 24° 29.7' E	Mo.(U)W. period 15s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 0.5s fl. 1.5s, ec. 11.5s Mo.(U)R. period 15s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 0.5s fl. 1.5s, ec. 11.5s	59 18	10	Platform.	All white lights are synchronized and located on the corners of the platforms. Horn: Mo.(U) 30s (bl. 0.75s, si. 1s, bl. 0.75s, si. 1s, bl. 2.5s, si. 24s). All red lights are synchronized and located in the middle of the bridges which connect platforms A, B, D, and F.
16776 E 4547.8	-Thasos, W. breakwater, head.	40° 47.0' N 24° 42.7' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	26 8	4	Column on white hexagonal hut, green band; 23.	
16780 E 4547.9	--E. breakwater, head.	40° 46.9' N 24° 42.7' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	26 8	4	Column on white hexagonal hut, red band; 23.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
GREECE							
16781 <i>E 4547.93</i>	-Panagia Marina, N. breakwater, head.	40° 46.9' N 24° 42.3' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework tower, gallery, red band.	
16781.1 <i>E 4547.95</i>	--S. breakwater, head.	40° 46.8' N 24° 42.3' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework tower, gallery, green band.	
16782 <i>E 4546.8</i>	-Rachoni, fishing harbor, mole, head.	40° 47.0' N 24° 36.8' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal framework, gallery, green band.	
16782.5 <i>E 4546.9</i>	--Pier, head.	40° 47.0' N 24° 36.8' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal column with gallery on metal framework, red band; 36.	
16784 <i>E 4547</i>	-Akra Prinos.	40° 45.8' N 24° 33.9' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	16 5	7	Metal framework tower; 13.	
16785 <i>E 4547.1</i>	-Sotiras, S. mole, head.	40° 43.8' N 24° 32.8' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal framework, gallery, metal column, green band.	
16785.5 <i>E 4547.15</i>	--N. mole, head.	40° 43.8' N 24° 32.8' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal framework, gallery, metal column, red band.	
16786 <i>E 4547.2</i>	-Kallirachi, S. mole, head.	40° 42.7' N 24° 31.9' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework, gallery, metal column, green band.	
16786.5 <i>E 4547.25</i>	--N. mole, head.	40° 42.7' N 24° 31.9' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal framework, gallery, metal column, red band.	
16787 <i>E 7601.5</i>	-Notia Kavala, K.	40° 42.0' N 24° 26.4' E	Mo.(U)W. period 15s fl. 0.6s, ec. 0.3s fl. 0.6s, ec. 0.3s fl. 1.5s, ec. 11.7s	59 18	10	Platform.	All white lights are synchronized and located on the corners of the platform. Horn: Mo.(U) 24s (bl. 0.75s, si. 1s, bl. 0.75s, si. 1s, bl. 2.5s, si. 18s).
16788 <i>E 4547.5</i>	-Akra Achpas.	40° 38.3' N 24° 30.7' E	Fl.(2)W. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	46 14	7	Metal framework; 13.	
16789 <i>E 4547.4</i>	--Mole, head.	40° 38.7' N 24° 30.8' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal column with gallery on metal framework, green band.	
16790 <i>E 4547.6</i>	-Limenaria, mole, head.	40° 37.5' N 24° 34.5' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	36 11	3	Metal framework with gallery; 20.	
16792 <i>E 4547.7</i>	-Akra Stavros Babouras.	40° 36.0' N 24° 46.0' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	115 35	7	Metal framework; 10.	Visible 200°-126°.
16793 <i>E 4549.2</i>	Akra Baloustra, fishing harbor, E. breakwater, head.	40° 56.0' N 24° 58.0' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	20 6	3	White metal framework, green band; 20.	
16794 <i>E 4549.22</i>	-W. breakwater, head.	40° 56.0' N 24° 58.0' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	20 6	3	White metal framework, red band; 20.	
ORMOS VISTONIAS:							
16796 <i>E 4550</i>	-Akra Fanari.	40° 57.5' N 25° 07.8' E	Fl.W. period 8s fl. 1.5s, ec. 6.5s	131 40	6	Metal framework on water tower.	
16800 <i>E 4550.5</i>	-Fanarion, S. breakwater, head.	40° 57.9' N 25° 07.4' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	23 7	3	White metal framework tower with gallery, green band; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
GREECE							
16808 E 4551	-Lagos Entrance Range, front.	41° 00.4' N 25° 07.6' E	F.Y.	16 5	3	Metal column, yellow triangular daymark, point up.	
16812 E 4551.1	--Rear, 180 meters 023°30' from front.	41° 00.6' N 25° 07.7' E	F.Y.	23 7	3	Metal column, yellow triangular daymark, point down	
16816 E 4552	--Outer, E. side.	40° 59.4' N 25° 07.4' E	Fl.G. period 1.5s	13 4	3	White round hut on pedestal, green band; 13.	
16820 E 4552.2	---W. side.	40° 59.4' N 25° 07.3' E	Fl.R. period 1.5s	13 4	3	White round hut on pedestal, red band; 7.	
16824 E 4552.5	--Inner E. side.	41° 00.1' N 25° 07.6' E	Fl.G. period 1.5s fl. 0.2s, ec. 1.3s	13 4	3	Metal column on pedestal, green band.	
16828 E 4552.6	--Inner W. side.	41° 00.2' N 25° 07.5' E	Fl.R. period 1.5s fl. 0.2s, ec. 1.3s	10 3	3	Metal column on pedestal, red band.	
16830 E 4550.9	Imeros, N. breakwater.	40° 56.0' N 25° 21.5' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	30 9	3	Metal framework with gallery, metal column, green band.	
16830.1 E 4550.8	-W. mole, head.	40° 56.0' N 25° 21.5' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	23 7	3	Metal framework with gallery, green band.	Fl.R. 2s 7m 3M marks inner E. mole.
16832 E 4552.8	Ayios Kharalambos, mole, head.	40° 52.6' N 25° 30.4' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	33 10	3	White metal framework tower, green band; 13.	
16834 E 4553	Limeniskos Makris, W. mole, head.	40° 50.8' N 25° 45.1' E	Fl.R. period 4s fl. 0.6s, ec. 3.4s	23 7	3	Metal column with gallery on metal framework, red band.	
16835 E 4553.2	-E. mole, head.	40° 50.8' N 25° 45.1' E	Fl.G. period 4s fl. 0.6s, ec. 3.4s	23 7	3	Metal column with gallery on metal framework, green band.	
16836 E 4554	Alexandroupolis.	40° 51.0' N 25° 53.0' E	Fl.(3)W. period 15s fl. 0.4s, ec. 2.1s fl. 0.4s, ec. 2.1s fl. 0.4s, ec. 9.6s	102 31	24	Round tower on house; 88.	
16840 E 4555.2	-N. breakwater, head.	40° 50.5' N 25° 53.1' E	Fl.G. period 3s fl. 0.4s, ec. 2.6s	30 9	3	Column on white hexagonal hut, green band; 23.	<i>Temporarily extinguished (2000).</i> Q.G. 0.8 mile ESE. marks end of breakwater under construction.
16844 E 4555	-S. breakwater.	40° 50.0' N 25° 53.9' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	33 10	6	Metal framework with gallery, red band.	
NISOS SAMOTHRAKI:							
16846 E 4555.9	-Limenisko Therma, N. mole, head.	40° 30.3' N 25° 36.1' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal framework, gallery and column, red band; 20.	
16848 E 4556	-Akra Akrotiri.	40° 28.5' N 25° 26.7' E	Fl.W. period 5s fl. 1s, ec. 4s	39 12	10	Metal framework, gallery and column; 46.	
16852 E 4556.4	-Ormos Kamariotissa, breakwater, head.	40° 28.4' N 25° 28.1' E	Fl.R. period 3s fl. 0.4s, ec. 2.6s	16 5	3	Metal framework, gallery and column; 16.	
16860 E 4556.8	-Zourafa Islet.	40° 28.2' N 25° 50.3' E	Fl.(2)W. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	30 9	8	ISOLATED DANGER BRB, tower, topmark; 26.	

Section 12

Northeastern Aegean Sea, Sea of Marmara, Bulgaria, Romania and Ukraine Including Dardanelles and Bosphorus

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
GREECE-TURKEY							
16861 <i>E 4568.3</i>	Gulpinar (T.), main breakwater, head.	39° 33.8' N 26° 05.7' E	Fl.G. period 5s fl. 1s, ec. 4s	33 10	7	White concrete tower; 26.	
16861.1 <i>E 4568.31</i>	-Auxillary breakwater, head.	39° 33.9' N 26° 05.8' E	Fl.R. period 5s fl. 1s, ec. 4s	33 10	7	White concrete tower; 26.	
16863 <i>E 4568.35</i>	Yukyeri Limani (T.), jetty, head.	39° 49.1' N 26° 09.6' E	Fl.R. period 5s fl. 1s, ec. 4s	30 9	5	White metal tower; 23.	
BOZCA ADA (T.):							
16864 <i>E 4568</i>	-Mermer Burnu.	39° 48.0' N 26° 04.8' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	115 35	10	White masonry tower; 30.	
16868 <i>E 4566</i>	-Bozcaada, breakwater, entrance, S. side, head..	39° 50.1' N 26° 04.5' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	39 12	3	White metal framework tower; 33.	
16869 <i>E 4565.5</i>	--Inner harbor, pier, head.	39° 50.1' N 26° 04.4' E	Fl.(4)Y. period 10s	26 8	3		
16870 <i>E 4564</i>	-Bati Burnu.	39° 50.0' N 25° 58.0' E	Fl.(2)W. period 15s fl. 1s, ec. 3s fl. 1s, ec. 10s	105 32	15	White masonry tower; 66.	
16876 <i>E 4565</i>	Ortafener Adasi (T.).	39° 50.5' N 26° 05.5' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	26 8	8	White metal tower; 10.	
16878 <i>E 4568.5</i>	Besige Limani (T.), cement factory, jetty, head.	39° 52.7' N 26° 09.1' E	Fl.R.	23 7	3		
16878.1 <i>E 4568.6</i>	--Number 1 jetty, head.	39° 52.8' N 26° 09.2' E	Fl.W. period 5s fl. 1s, ec. 4s	23 7	5	Metal mast; 16.	
16878.3 <i>E 4568.7</i>	--Number 2 jetty, head.	39° 52.7' N 26° 09.2' E	Fl.Y. period 5s fl. 1s, ec. 4s	20 6	5	Metal mast; 16.	
16882 <i>E 4569</i>	Besige Burnu (T.).	39° 54.9' N 26° 09.0' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	82 25	15	White metal framework tower; 26.	
16884 <i>E 4560</i>	Tavsan Adasi (T.).	39° 56.2' N 26° 03.5' E	Fl.W.R. period 5s fl. 1s, ec. 4s	148 45	W. 14 R. 10	White metal pylon and dwelling; 30.	R. 037°-052°, W.-037°. Reserve light range W. 8M, R. 5M.
NISOS LIMNOS (GR.):							
16888 <i>E 4578</i>	-Ormos Moudhrou, Nisis Kombi.	39° 47.8' N 25° 14.0' E	Fl.(2)W. period 6s fl. 0.4s, ec. 0.8s fl. 0.4s, ec. 4.4s	200 61	10	Metal framework tower; 13.	
16892 <i>E 4580</i>	--Aspros Kavos.	39° 51.0' N 25° 14.2' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	43 13	5	Metal framework on round hut.	
16900 <i>E 4577</i>	-Ormos Kondias, on Akra Lena.	39° 50.8' N 25° 09.8' E	Fl.W. period 3.3s fl. 0.4s, ec. 2.9s	20 6	5	White round hut with metal framework tower; 16.	Visible 040°-243°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
GREECE-TURKEY							
16904 E 4575	-Mirina.	39° 52.0' N 25° 03.0' E	Fl.W. period 6s fl. 1s, ec. 5s	272 83	11	On old masonry structure.	
16907 E 4576.4	--N. breakwater, head.	39° 52.4' N 25° 03.0' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	49 15	6	Square hut with column and gallery, red band; 30.	
16908 E 4576.2	--E. breakwater, head.	39° 52.4' N 25° 03.5' E	Q.R.	33 10	3	White hexagonal hut with column and gallery, red band; 26.	
16912 E 4576.6	--S. breakwater, head.	39° 52.3' N 25° 03.1' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	33 10	5	White hexagonal hut with column and gallery, green band; 26.	
16916 E 4574	-Akra Mourtzeflos.	39° 59.1' N 25° 02.0' E	Fl.(2)W. period 14s fl. 0.6s, ec. 1.4s fl. 0.6s, ec. 11.4s	194 59	13	Metal pyramid with gallery; 10.	
16920 E 4572	-Akra Plaka.	40° 02.1' N 25° 26.8' E	Fl.(3)W. period 30s fl. 0.1s, ec. 4.9s fl. 0.1s, ec. 4.9s fl. 0.1s, ec. 19.9s	181 55	22	White round tower; 69.	
			Fl.R.	118 36	13	White lantern house; 10.	Visible 301°-346°.
16921 E 4571.1	--S. mole, head.	40° 01.1' N 25° 26.1' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal framework with column and gallery, green band.	
16921.1 E 4571.2	--N. mole, head.	40° 01.1' N 25° 26.1' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal framework with column and gallery, red band.	
NISOS AYIOS EVSTRATOS (GR.):							
16924 E 4585	-Nisis Ay. Apostoloi.	39° 34.0' N 25° 00.3' E	Fl.W.R. period 5s fl. 0.5s, ec. 4.5s	112 34	W. 10 R. 7	White square hut; 13.	W. 039°-294°, R.-312°.
16925 E 4584.5	-Evstratios, mole, head.	39° 32.4' N 24° 59.2' E	Fl.R. period 2s fl. 0.2s, ec. 1.8s	26 8	3	Metal framework, gallery and column; 23.	
16928 E 4584	-Akra Tripiti.	39° 27.8' N 24° 58.8' E	Fl.(2)W. period 10s fl. 0.4s, ec. 1.2s fl. 0.4s, ec. 8s	135 41	8	Metal framework on round hut; 16.	Visible 217°-153°.
IMROZ ADASI (T.):							
16932 E 4559.4	-Kalekoy.	40° 14.1' N 25° 53.8' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	161 49	7	White metal framework tower; 30.	
16936 E 4559.7	--S. breakwater, head.	40° 13.9' N 25° 56.9' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	33 10	10	White metal tower; 23.	
16936.5 E 4559.6	--N. breakwater.	40° 13.8' N 25° 57.4' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	33 10	10	Yellow framework tower; 23.	
16940 E 4559	-Aydinicik Burnu.	40° 09.6' N 26° 00.5' E	Fl.(3)W. period 20s fl. 0.5s, ec. 3s fl. 0.5s, ec. 3s fl. 0.5s, ec. 12.5s	75 23	12	White metal framework tower; 10.	
16940.5 E 4559.2	-Ugurlu Iskelesi, breakwater.	40° 07.0' N 25° 42.0' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	36 11	5	White metal framework tower; 29.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
GREECE-TURKEY							
16941 <i>E 4558.5</i>	-Kabatepe Limani, N. breakwater, head.	40° 12.3' N 26° 15.9' E	Fl.R. period 5s fl. 1s, ec. 4s	33 10	6	White concrete tower; 23.	
16942 <i>E 4558.6</i>	--S. breakwater, head.	40° 12.2' N 26° 16.0' E	Fl.G. period 5s	30 9	6	White concrete tower; 20.	
16943 <i>E 4557.1</i>	Enez Harbor (T.), W. breakwater, head.	40° 42.0' N 26° 03.0' E	Fl.G. period 5s fl. 1s, ec. 4s	26 8	7	White concrete tower; 20.	
16943.1 <i>E 4557.12</i>	-N. breakwater, head.	40° 42.0' N 26° 03.1' E	Fl.R. period 5s fl. 1s, ec. 4s	26 8	7	White concrete tower; 20.	
16943.2 <i>E 4557.14</i>	-Inner breakwater, head.	40° 41.9' N 26° 03.2' E	F.R.	26 8	2	White concrete tower; 20.	
SAROS KORFEZI:							
16944 <i>E 4558</i>	-Buyuk Kemikli Burnu.	40° 19.0' N 26° 12.9' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	46 14	10	White metal framework tower; 23.	
16948 <i>E 4557.6</i>	Bakla Burnu, Saros Korfezi.	40° 33.5' N 26° 44.9' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	52 16	12	White metal framework tower; 20.	
TURKEY							
DARDANELLES (CANAKKALE BOGAZI):							
16956 <i>E 4850</i>	-Mehmetcik Burnu.	40° 02.6' N 26° 10.5' E	Fl.W.R. period 5s fl. 0.5s, ec. 4.5s	164 50	W. 19 R. 12	White concrete tower and dwelling; 82.	R. 350°-010°, W.-350°. Radar reflector.
-RACON C(- • - •)							
16960 <i>E 4852.4</i>	-Seddulbahir, entrance, N. side.	40° 02.5' N 26° 11.4' E	Fl.G. period 3s fl. 1s, ec. 2s	16 5	5	Metal framework tower.	
16964 <i>E 4852.8</i>	--Entrance, S. side.	40° 02.5' N 26° 11.4' E	Fl.R. period 3s fl. 1s, ec. 2s	16 5	5	Metal framework tower.	
16968 <i>E 4852.3</i>	--Seddulbahir.	40° 02.5' N 26° 11.5' E	Fl.R. period 5s fl. 0.3s, ec. 4.7s	16 5	3	Concrete tower; 13.	AIS (MMSI No 992711351).
16972 <i>E 4852.6</i>	--N. mole.	40° 02.5' N 26° 11.5' E	Fl.G. period 5s fl. 0.3s, ec. 4.7s	16 5	5	Concrete column; 13.	AIS (MMSI No 992711352).
16976 <i>E 4852</i>	-Anit (Morto) Limani.	40° 02.5' N 26° 12.1' E	Fl.(4)R. period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 8.5s	26 8	5	White metal tower; 16.	Radar reflector.
16980 <i>E 4848</i>	-Kumkale Burnu, entrance, S. side.	40° 00.4' N 26° 11.9' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	46 14	18	White metal tower; 20.	
16984 <i>E 4853</i>	-Karanfil Burnu.	40° 06.3' N 26° 19.6' E	Fl.(2)R. period 12s fl. 1s, ec. 2s fl. 1s, ec. 8s	46 14	10	White metal tower; 43.	
16988 <i>E 4854</i>	-Kanlidere Burnu.	40° 05.7' N 26° 21.9' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	33 10	10	White metal tower and dwelling; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TURKEY							
16989 E 4854.5	-Kepez Burnu, jetty, head.	40° 06.4' N 26° 22.6' E	Fl.R. period 5s fl. 1s, ec. 4s				
16990 E 4855	-Sarisiglar.	40° 08.1' N 26° 23.8' E	V.Q.(9)W. period 10s	30 9		9 W. CARDINAL YBY, beacon, topmark; 26.	
16992 E 4856	-Kilitbahir.	40° 08.6' N 26° 22.9' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	23 7		15 White metal framework tower; 13.	
16996 E 4857	-Canakkale Kalesi (Cimenlik).	40° 08.8' N 26° 23.8' E	Fl.R.G. period 5s fl. 1s, ec. 4s	52 16	10	White metal tower; 46.	R. 341°-027°, G.-341°. R. lights on mast 1.5 miles NNE.
16997 E 4857.2	--Ferry Terminal.	40° 09.0' N 26° 24.0' E	Fl.(2)R. period 5s fl. 0.4s, ec. 0.6s fl. 0.4s, ec. 3.6s	26 8	3	White concrete tower; 13.	
16997.1 E 4857.25	--Breakwater, head.	40° 09.1' N 26° 24.1' E	Fl.(3)Y. period 8s	26 8	5		
16998 E 4857.3	--Marina, breakwater, head.	40° 09.2' N 26° 24.3' E	Fl.G. period 3s	20 6	3	Metal pylon; 13.	
17000 E 4862	-Nara Burnu.	40° 11.8' N 26° 24.0' E	Fl.(2)G. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	33 10	7	White metal tower on concrete base; 30.	F.R. on jetty 600 meters SE.
17004 E 4858	-Eceabat Range, front.	40° 11.1' N 26° 21.1' E	Oc.W. period 2.5s lt. 2s, ec. 0.5s	131 40	6	Pylon; 59.	
17008 E 4858.1	--Rear, 132 meters 242° from front.	40° 11.1' N 26° 21.0' E	Q.W.	141 43	6	Framework tower, white diamond daymark; 43.	
17012 E 4859	-Eceabat, S. breakwater, head.	40° 11.1' N 26° 21.8' E	Fl.R. period 5s fl. 1s, ec. 4s	26 8	5	White metal tower; 20.	
17016 E 4859.2	--N. breakwater, head.	40° 11.1' N 26° 21.6' E	Fl.G. period 5s fl. 1s, ec. 4s	26 8	5	White metal tower; 20.	
17020 E 4860	-Poyraz Burnu.	40° 12.1' N 26° 22.6' E	Fl.(2)R. period 5s fl. 1s, ec. 1s fl. 1s, ec. 2s	23 7	10	White concrete tower; 20.	
17024 E 4866	-Kavakalti Deresi, shoal, head.	40° 13.3' N 26° 25.4' E	Fl.(3)R. period 15s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 8s	20 6	12	White metal tower; 16.	
17028 E 4868	-Uzun Burnu.	40° 16.1' N 26° 29.5' E	Fl.(2)R. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	36 11	8	White metal tower; 33.	
17032 E 4870	-Gocuk Burnu, strait, E. side.	40° 16.7' N 26° 34.2' E	Fl.W. period 3s fl. 1s, ec. 2s	39 12	10	White concrete tower; 33.	F.R. marks head of jetty 1.3 miles SSW.
17036 E 4872	-Karakova Burnu.	40° 19.2' N 26° 35.2' E	Fl.R. period 6s fl. 1s, ec. 5s	33 10	10	Metal tower; 33.	
17038 E 4875	-Lapseki Limani.	40° 21.0' N 26° 41.0' E	Fl.(3)Y. period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4.5s	26 8	5	Yellow framework tower; 20.	
17040 E 4874	-Galata Burnu, on shoal.	40° 21.5' N 26° 37.6' E	Fl.(2)R. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	16 5	12	White metal tower; 13.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TURKEY							
17043 E 4875.8	-Cardak Limani.	40° 22.8' N 26° 42.8' E	Fl.(4)Y. period 10s	26 8	3		
17044 E 4876	-Cardak Burnu, on low sandy point.	40° 23.1' N 26° 42.6' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	38 12	7	White metal tower; 36.	
17046 E 4876.5	-Cardak Banki.	40° 23.6' N 26° 42.4' E	V.Q.(9)W. period 10s	26 8	5	W. CARDINAL YBY, beacon, topmark; 16.	
17048 E 4878	-Gelibolu.	40° 24.6' N 26° 41.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	111 34	15	White masonry tower; 30.	Siren: 2 bl. ev. 30s.
	-RACON		G(- - •)				
17049 E 4877	--Fishing Harbor, breakwater, head.	40° 24.3' N 26° 40.1' E	Fl.(2)Y. period 6s	26 8	3	Yellow framework tower; 20.	
17049.1 E 4877.1	---Elbow.	40° 24.3' N 26° 40.2' E	Fl.(2)Y. period 6s	26 8	3	Yellow framework tower; 20.	
SEA OF MARMARA (MARMARA DENIZI):							
17052 E 4879	-Zincirbozan Banki, Sea of Marmara, W. entrance.	40° 25.3' N 26° 45.3' E	Fl.W. period 10s fl. 1s, ec. 9s	33 10	7	White concrete tower; 36.	Radar reflector.
17054 E 4879.5	-Doganaslan Bank.	40° 29.8' N 26° 51.5' E	Q.(6)+L.Fl.W. period 15s	30 9	7	S. CARDINAL YB, beacon, topmark.	
17056 E 4880	-Ince Burnu.	40° 33.4' N 26° 59.7' E	Fl.(3)W. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	105 32	16	White concrete tower; 33.	
17058 E 4880.2	-Kemer Limani, SW. breakwater, head.	40° 24.7' N 27° 02.4' E	Fl.R. period 5s	30 9	5		F.R. lights on breakwater.
17058.5 E 4880.25	--Pier, head.	40° 24.4' N 27° 02.7' E	Fl.G. period 5s	30 9	5		
17060 E 4896	-Hoskoy.	40° 42.2' N 27° 18.4' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	164 50	19	White metal tower and dwelling; 72.	
17061 E 4896.2	-Kumbag, fishing harbor, breakwater, head.	40° 51.9' N 27° 27.7' E	F.R.	23 7	8	Concrete tower; 7.	
17064 E 4896.5	-Tekirdag, on pier.	40° 58.4' N 27° 31.0' E	Fl.(4)Y. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 5s	30 9	4	Yellow round tower.	
17064.4 E 4896.74	--E. breakwater, head.	40° 58.4' N 27° 31.4' E	Fl.G. period 4s		3		
17064.6 E 4896.72	--W. breakwater, head.	40° 58.5' N 27° 31.4' E	Fl.R. period 4s		3		
17065 E 4896.58	--W. quay, entrance, W. corner.	40° 57.9' N 27° 30.5' E	Fl.(2)G. period 6s	30 9	4		
17065.1 E 4896.56	----E. corner.	40° 57.9' N 27° 30.6' E	Fl.(2)R. period 6s	30 9	4		
17065.2 E 4896.54	---Outer, NE. corner.	40° 57.9' N 27° 30.6' E	Fl.(3)Y. period 9s	30 9	4		
17065.3 E 4896.52	----SW. corner.	40° 57.7' N 27° 30.5' E	Fl.G. period 4s	30 9	4		
17066 E 4896.85	--SW. pier, dolphin.	40° 57.7' N 27° 30.3' E	Fl.R. period 4s	30 9	4		

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TURKEY							
17066.1 <i>E 4896.8</i>	--Head.	40° 57.7' N 27° 30.2' E	F.R.				
17067 <i>E 4896.42</i>	--SW. jetty, head.	40° 57.6' N 27° 30.3' E	Iso.Y. period 2s	30 9	4		
17067.5 <i>E 4896.9</i>	-Kargaburun AVIATION LIGHT.	40° 58.4' N 27° 52.2' E	Oc.R. period 3s	643 196	20	Radio mast.	
			Oc.R. period 3s	269 82	16		
17068 <i>E 4897</i>	-Orencik, Venedik Tasi.	40° 57.7' N 27° 53.8' E	Fl.W. period 6s fl. 1s, ec. 5s	30 9	10	White tower on concrete base; 16.	
17069 <i>E 4897.5</i>	-Marta, jetty.	40° 57.8' N 27° 55.9' E	Fl.(2)Y. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	39 12	5	SPECIAL Y, post, topmark.	
17072 <i>E 4898</i>	-Marmaraereglisi.	40° 58.0' N 27° 57.7' E	Fl.W. period 10s fl. 0.4s, ec. 9.6s	171 52	16	White metal tower and dwelling; 85.	
17076 <i>E 4899</i>	--On shoal spit, about 0.65 km. 034° from Marmaraereglisi.	40° 58.3' N 27° 58.0' E	Q.(3)W. period 10s fl. 0.3s, ec. 0.7s fl. 0.3s, ec. 0.7s fl. 0.3s, ec. 7.7s	30 9	8	E. CARDINAL BYB, beacon, topmark; 20.	
17077 <i>E 4899.05</i>	-Opet Terminal, N. jetty, SW. head.	40° 59.1' N 27° 59.0' E	Fl.(2)Y. period 6s	33 10	5		
17077.1 <i>E 4899.06</i>	---NE. head.	40° 59.1' N 27° 58.9' E	Fl.(2)Y. period 6s	33 10	5		
17078 <i>E 4899.1</i>	-Botas Dogalgaz Terminal.	40° 59.5' N 27° 59.1' E	Fl.(4)Y. period 10s	30 9	5		F.R. mark terminal jetties.
17080 <i>E 4899.3</i>	-Silivri, center breakwater.	41° 04.3' N 28° 14.3' E	Fl.G. period 5s fl. 1s, ec. 4s	20 6	5	Concrete tower; 16.	
17081 <i>E 4899.4</i>	--Auxiliary breakwater.	41° 04.5' N 28° 14.4' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	20 6	5	Concrete column; 16.	
17092 <i>E 4899.6</i>	-Buyukcekmece Koyu, Degirmen Burnu.	40° 57.7' N 28° 37.3' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	65 20	10	White concrete tower; 26.	
17092.1 <i>E 4900.797</i>	-Westward, N. side.	40° 57.7' N 28° 39.5' E	Fl.R. period 5s	36 11	3		
17092.2 <i>E 4900.798</i>	--S. side.	40° 57.7' N 28° 39.6' E	Fl.G. period 5s	36 11	3		
17093 <i>E 4900.79</i>	-Soyak, wharf, head.	40° 57.5' N 28° 40.3' E	Fl.R. period 3s fl. 1s, ec. 2s	26 8	5	Red round tower, white band; 20.	
17093.1 <i>E 4900.9</i>	--E. pier, head.	40° 57.8' N 28° 41.1' E	Fl.G. period 3s fl. 1s, ec. 2s	26 8	5	Green round tower, white band; 20.	
17096 <i>E 4901.7</i>	-Outfall pipe.	40° 58.8' N 28° 45.4' E	Fl.Y. period 5s fl. 1s, ec. 4s	26 8	5	Yellow metal framework tower; 19.	
17100 <i>E 4901</i>	-Yesilkoy, AVIATION LIGHT.	40° 58.7' N 28° 49.3' E	Al.Fl.W.G. period 8s	160 49	10	Control tower; 69.	Occasional.
17104 <i>E 4902</i>	-Yesilkoy Burnu.	40° 57.6' N 28° 50.3' E	Fl.(2)W. period 10s	75 23	15	White stone tower and dwelling; 33.	Signal station.
17105 <i>E 4902.5</i>	-Atakoy Marina, jetty.	40° 58.3' N 28° 52.8' E	Fl.R. period 3s	43 13	5	White concrete tower.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TURKEY							
17105.1 E 4902.6	--Wharf.	40° 58.3' N 28° 52.7' E	Fl.G. period 3s	33 10	5	White concrete tower.	
17105.2 E 4902.71	-Zeyport.	40° 58.8' N 28° 53.6' E	Fl.R. period 3s	30 9	5	White concrete tower; 23.	
17105.21 E 4902.75	--S. pier, head.	40° 58.7' N 28° 53.8' E	Fl.G. period 3s	30 9	5	White concrete tower; 23.	
17106 E 4903.45	-Yenikapi, breakwater, head.	40° 59.9' N 28° 57.6' E	Fl.(2)R. period 5s	30 9	8	White metal framework tower; 19.	
17107 E 4903.6	--E. pier, head.	41° 00.1' N 28° 57.4' E	Fl.(4)Y. period 15s	23 7	3		
17108 E 4903.4	-Kumkapi Barinak, pier, head.	41° 00.0' N 28° 57.9' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	33 10	6	White concrete tower; 30.	AIS (MMSI No 992711003).
17110 E 4880.3	-Adasi, breakwater, head.	40° 27.3' N 27° 08.4' E	Fl.(2)W. period 4s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2s	46 14	5	Metal column; 33.	
17112 E 4880.6	-Ince Burun, W. entrance point.	40° 28.5' N 27° 17.1' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	177 54	10	White concrete tower; 39.	
17116 E 4881.6	--Tavsan Adasi.	40° 22.6' N 27° 47.3' E	Fl.W. period 10s fl. 1s, ec. 9s	181 55	12	White metal framework tower; 19.	
17120 E 4881.7	-Erdek, breakwater, head.	40° 23.2' N 27° 48.3' E	Fl.R. period 5s fl. 1s, ec. 4s	26 8	6	White concrete tower; 10.	
17124 E 4881.72	--N. pier, head.	40° 24.0' N 27° 48.0' E	F.R.				
17128 E 4881.71	--SW. pier, head.	40° 23.2' N 27° 48.3' E	F.R.				
17129 E 4881.74	--NW. pier, head.	40° 23.6' N 27° 47.5' E	Iso.Y. period 2s	30 9	7		
17132 E 4881	-Kale Burnu.	40° 24.6' N 27° 20.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	75 23	8	White metal framework tower; 26.	
17134 E 4881.3	-Karabiga, N. breakwater, head.	40° 24.1' N 27° 18.6' E	Fl.G. period 5s fl. 1s, ec. 4s	23 7	5	White concrete tower; 10.	
17135 E 4881.4	--Inner harbor.	40° 24.1' N 27° 18.4' E	Fl.Y. period 3s fl. 1s, ec. 2s	26 8	7		
17135.5 E 4881.5	--S. breakwater, head.	40° 24.0' N 27° 18.3' E	Fl.R. period 5s fl. 1s, ec. 4s	23 7	5	White concrete tower; 10.	
17136 E 4894	-Hayirsiz Ada, N. summit.	40° 38.7' N 27° 29.0' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	366 112	12	White metal framework tower and dwelling; 26.	
	-RACON		M(- -)				
17144 E 4892.4	--Domuz Burnu.	40° 40.0' N 27° 38.0' E	Fl.W. period 10s fl. 1s, ec. 9s	82 25	9	White metal framework tower; 13.	
	-Marmara Adasi:						
17148 E 4892.6	--Saraylar, shelter mole, head.	40° 39.5' N 27° 39.7' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	36 11	10	White metal tower; 30.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TURKEY							
17152 E 4892	--Asmali (Fener Adasi).	40° 38.0' N 27° 45.7' E	Fl.(3)W. period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9.5s	131 40	12	White metal framework tower and dwelling; 29.	
17152.5 E 4892.7	--Cinarli, Adatas (Pacanoz) Rock.	40° 36.6' N 27° 31.5' E	Fl.(2)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 8s	30 9	2	ISOLATED DANGER BRB, tower, topmark; 10.	
17153 E 4892.8	--Marmara, breakwater, head.	40° 35.0' N 27° 33.6' E	Fl.R. period 3s fl. 1s, ec. 2s	33 10	8	White concrete tower; 26.	
17153.5 E 4892.9	--Mole, head.	40° 35.0' N 27° 33.7' E	Fl.G. period 3s fl. 1s, ec. 2s	33 10	8	White concrete tower; 13.	
17154 E 4893.5	--Balikli Limani.	40° 36.8' N 27° 42.4' E	F.G.	16 5	3	Iron column; 10.	
17156 E 4893	--Ada Burnu.	40° 34.6' N 27° 34.6' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	49 15	5	White metal tower; 20.	
17159 E 4881.9	-Yigitler, breakwater, head.	40° 29.9' N 27° 31.6' E	Fl.G. period 5s fl. 1s, ec. 4s	33 10	5	White concrete tower; 20.	
17160 E 4882	--Ekinlik, Avsar Adasi, off W. side.	40° 30.8' N 27° 28.7' E	Fl.W. period 5s fl. 1s, ec. 4s	60 18	8	White concrete tower; 33.	
17164 E 4884	--Balyos Burnu, Kapidagi Yarimadasi, W. point.	40° 29.7' N 27° 41.2' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	125 38	8	White metal framework tower; 39.	
17168 E 4885	--Tuzla Burnu, E. point.	40° 27.7' N 27° 40.1' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	72 22	12	White framework tower, concrete base; 23.	
	-Bandirma Korfezi:						
17172 E 4890	--Kapsul Burnu.	40° 28.7' N 28° 02.0' E	Fl.(2)R. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	66 20	12	White concrete tower, dwelling; 31.	
17176 E 4888	---W. mole, head.	40° 21.4' N 27° 57.5' E	Fl.G. period 5s fl. 1s, ec. 4s	33 10	6	White concrete tower; 26.	
17180 E 4887	--E. breakwater, head.	40° 21.6' N 27° 57.6' E	Fl.R. period 5s fl. 1s, ec. 4s	33 10	10	Concrete tower; 26.	
17184 E 4889	---S. mole, head.	40° 21.3' N 27° 58.1' E	2 F.G. (vert.)	21 6	2	White metal post; 10.	
17188 E 4886	--Mola Adalari, Fener Adasi.	40° 27.7' N 28° 04.2' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	141 43	10	White mast on dwelling; 39.	Obscured 256°-259°, 296°-303°, and 311°30'-028°.
17192 E 4899.8	-Imrali Adasi, Marti Burnu, NW.	40° 34.0' N 28° 31.3' E	Fl.W. period 10s fl. 1s, ec. 9s	361 110	10	White concrete tower; 20.	
17196 E 4899.9	--Degirmen Burnu.	40° 33.5' N 28° 33.0' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	82 25	6	White metal framework tower; 16.	
17200 E 4900.8	-Karabacey (Sazli Kohve Burnu).	40° 23.5' N 28° 31.1' E	Fl.(3)W. period 15s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 10s	42 13	10	White metal framework tower; 39.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TURKEY							
17208 <i>E 4900.2</i>	-Gemlik Korfezi, Arnavut Burnu.	40° 23.2' N 28° 51.9' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	98 30	12	White galvanized metal framework tower; 20.	
17212 <i>E 4900.4</i>	--Mudanya, mole.	40° 22.5' N 28° 53.3' E	Fl.(3)Y. period 9s	72 22	4	Mast.	
17213 <i>E 4900.5</i>	--Roda, jetty.	40° 24.8' N 29° 04.5' E	Fl.(3)Y. period 10s		5		
17216 <i>E 4900.6</i>	--Tuzla Burnu.	40° 25.2' N 29° 05.7' E	Fl.W. period 10s fl. 1s, ec. 9s	46 14	12	White metal framework tower; 39.	
17220 <i>E 4900.7</i>	--Gemlik, wharf, head.	40° 26.0' N 29° 09.1' E	F.R.	39 12	3	Gray framework tower.	
17225 <i>E 4900</i>	-Boz Burnu, W. extremity.	40° 32.0' N 28° 47.1' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	253 77	10	White metal framework tower, dwelling; 29.	Siren: 2 bl. ev. 30s.
17236 <i>E 4899.96</i>	-Sivrikaya Burnu, entrance, S. side.	40° 38.8' N 29° 00.5' E	Fl.W. period 10s fl. 1s, ec. 9s	65 20	9	White metal column; 33.	
17238 <i>E 4899.94</i>	-Cinarcik, on mole.	40° 39.1' N 29° 07.8' E	F.G.	30 9	3	White concrete tower.	
17240 <i>E 4931</i>	-Yalova (Samanli), W. mole, head.	40° 39.7' N 29° 14.7' E	Fl.G. period 3s fl. 1s, ec. 2s	30 9	8	Metal framework tower; 23.	
17244 <i>E 4931.2</i>	--E. mole, head.	40° 39.7' N 29° 14.7' E	Fl.R. period 3s fl. 1s, ec. 2s	30 9	8	Metal framework tower; 23.	
17248 <i>E 4931.4</i>	--Quay, head.	40° 39.7' N 29° 16.2' E	F.R.				
17249 <i>E 4931.6</i>	--E. Quay, head.	40° 39.7' N 29° 16.8' E	F.R.				
	-Izmit Korfezi:						
17252 <i>E 4930.2</i>	--Aksa, Dolphin.	40° 42.0' N 29° 24.6' E	Fl.(3)G. period 10s		3	Platform.	
17253 <i>E 4930.11</i>	--Cavusciftligi.	40° 41.8' N 29° 27.4' E	Fl.Y. period 5s	26 8	5		
17254 <i>E 4924</i>	--Dil Burnu, S. entrance point.	40° 44.4' N 29° 30.9' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	39 12	10	White metal framework tower; 30.	
	--RACON		T(-)		20		
17255 <i>E 4926</i>	--Kava Burnu, N. entrance point.	40° 46.0' N 29° 31.0' E	Fl.(3)R. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	49 15	7	White concrete tower and building; 39.	
17257 <i>E 4926.1</i>	--Dilovasi, jetty.	40° 45.8' N 29° 31.7' E	Fl.R. period 5s	72 22	3		
17258 <i>E 4926.2</i>	--Diliskelesi, jetty, head.	40° 45.9' N 29° 32.0' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	62 19	3	Concrete column.	
17258.1 <i>E 4926.25</i>	--Likidgaz Fueling Facility, E. pier.	40° 46.2' N 29° 33.0' E	Fl.(3)R. period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4.5s	43 13	3	Galvanized tower, red band; 36.	
17258.2 <i>E 4926.23</i>	---W. pier.	40° 46.1' N 29° 32.8' E	Fl.Y. period 3s fl. 0.5s, ec. 2.5s	56 17	3	Yellow X on round tower; 49.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TURKEY							
17259 <i>E 4926.3</i>	--Vinc Iskelesi.	40° 46.3' N 29° 43.1' E	Fl.Y. period 4s	46 14	5		
17260 <i>E 4926.41</i>	--Ipras, N. jetty, S. dolphin.	40° 45.3' N 29° 45.1' E	Fl.(3)Y. period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4.5s	33 10	7	Mast with X; 23.	
17260.1 <i>E 4926.35</i>	---N. dolphin.	40° 45.4' N 29° 45.1' E	Fl.(3)Y. period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4.5s	33 10	7	Metal tower.	
17261 <i>E 4926.8</i>	---Jetty, head.	40° 45.0' N 29° 45.3' E	Fl.(2)R. period 8s fl. 1s, ec. 1s fl. 1s, ec. 5s	26 8	5	Yellow X on round tower with 2 white bands; 20.	
17262 <i>E 4926.9</i>	---S. jetty, dolphin.	40° 44.8' N 29° 45.4' E	Fl.Y. period 3s fl. 1s, ec. 2s	33 10	5	Mast with X; 23.	
17263 <i>E 4927</i>	--Kiler Burnu, oil terminal platform, W. dolphin.	40° 44.6' N 29° 45.3' E	Mo.(U)R. period 15s fl. 0.6s, ec. 0.3s fl. 0.5s, ec. 0.3s fl. 1.5s, ec. 11.8s	33 10	5	Mast; 23.	Siren: Mo.(U) 30s.
17264 <i>E 4927.4</i>	---E. dolphin.	40° 44.5' N 29° 45.6' E	Mo.(U)R. period 15s fl. 0.6s, ec. 0.3s fl. 0.5s, ec. 0.3s fl. 1.5s, ec. 11.8s	33 10	5	Mast; 23.	
17265 <i>E 4927.7</i>	---W. jetty.	40° 44.6' N 29° 45.9' E	Fl.Y. period 4s fl. 1s, ec. 3s	33 10	5	Mast with X; 23.	
17265.1 <i>E 4927.8</i>	---E. jetty.	40° 44.5' N 29° 46.1' E	Fl.Y. period 4s fl. 1s, ec. 3s	33 10	5	Mast with X; 23.	
17266 <i>E 7640.5</i>	--Platform.	40° 44.4' N 29° 46.6' E	Fl.R. period 4s	26 8	5		
17272 <i>E 4928</i>	--Zeytun Burnu, extremity of point.	40° 44.5' N 29° 46.8' E	Fl.(2)R. period 5s fl. 0.3s, ec. 1s fl. 0.3s, ec. 3.4s	33 10	8	White metal tower; 26.	F.R. on water tower 1M N.
17274 <i>E 7641</i>	--Platform.	40° 44.3' N 29° 47.0' E	Fl.W. period 4s	26 8	5		
17274.5 <i>E 7642</i>	--Platform.	40° 44.3' N 29° 47.4' E	F.R.				
17274.6 <i>E 4930</i>	--Derince Burnu, W. head.	40° 44.8' N 29° 49.6' E	Fl.(5)Y. period 20s	33 10	4	Round tower.	
17274.7 <i>E 4930.05</i>	---E. head.	40° 44.8' N 29° 49.9' E	Fl.(3)R. period 9s	33 10	7	Round tower.	
17275 <i>E 4930.1</i>	--Hacibayram Burnu.	40° 45.0' N 29° 51.3' E	Fl.W. period 5s	26 8	5	White mast, black bands; 20.	
17278 <i>E 4929.9</i>	--Batak Burun, pier, head.	40° 43.9' N 29° 51.3' E	Fl.(4)G. period 10s	33 10	3	Round tower; 23.	
17279 <i>E 4930.15</i>	--Sirintepe, jetty, head.	40° 45.3' N 29° 51.8' E	Fl.(3)Y. period 8s	26 8	3		
17280 <i>E 4929</i>	--Golcuk Burnu.	40° 43.8' N 29° 48.8' E	Fl.W. period 3s fl. 1s, ec. 2s	29 9	8	Metal frame tower, white concrete base; 16.	F.R. lights are shown on pier 700 meters W.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TURKEY							
17282 E 4923.3	--Darica.	40° 45.4' N 29° 22.3' E	Fl.(4)Y. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 5s	39 12	3	Yellow mast.	
17283 E 4922.5	--Tas Liman.	40° 45.4' N 29° 21.9' E	Fl.(2)Y. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	26 8	3	Yellow X on round tower; 20.	
17284 E 4922	-- Yelkenkaya Burnu.	40° 45.3' N 29° 21.2' E	Fl.W. period 15s fl. 1.5s, ec. 13.5s	66 20	18	White concrete tower and building; 49.	
17285 E 4921	--Cayirova, pier.	40° 48.2' N 29° 20.6' E	Fl.Y. period 3s	26 8	3	Yellow X on yellow metal post marked 7; 20.	
17286 E 4920	-Hayirsizada.	40° 47.3' N 29° 15.7' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	56 17	10	White metal framework tower on concrete base; 23.	
17287 E 4920.5	-Tuzla Korfezi, breakwater, head.	40° 48.8' N 29° 17.6' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	39 12	8	White round metal tower, black band; 30.	
17288 E 4919	--Inner harbor, N. breakwater, head.	40° 48.6' N 29° 15.9' E	Fl.G. period 5s	16 5	5	White metal framework tower; 10.	
17288.1 E 4919.2	---S. breakwater, head.	40° 48.5' N 29° 15.9' E	Fl.R. period 5s	16 5	5	White metal framework tower; 10.	
17289 E 4918.8	-Tuzla, Outer harbor, N. breakwater, head.	40° 49.1' N 29° 16.0' E	Fl.G. period 5s	16 5	5	White metal framework tower; 10.	
17289.1 E 4918.9	---S. breakwater, head.	40° 49.0' N 29° 16.1' E	Fl.R. period 5s	16 5	5	White metal framework tower; 10.	
17294 E 4916.4	-Aydinli Limani.	40° 51.0' N 29° 16.3' E	Fl.(2)G. period 5s fl. 0.3s, ec. 1s fl. 0.3s, ec. 3.4s	26 8	5	Whire reinforced tower, green band; 16.	
17294.1	--N. breakwater, head.	40° 51.3' N 29° 16.2' E	Fl.(2)R. period 5s	30 9	3		
17295 E 4916.3	-Aydinbey Yarimadasi, S. head.	40° 51.6' N 29° 15.4' E	Fl.R. period 5s fl. 1s, ec. 4s	23 7	8	White metal framework tower; 19.	AIS (MMSI No 992711004).
17296 E 4916.2	-Pendik, breakwater, head.	40° 51.6' N 29° 15.2' E	Fl.G. period 5s fl. 1s, ec. 4s	36 11	8	White concrete tower; 26.	
17297 E 4916.1	-Pendik Burnu, breakwater, head.	40° 52.1' N 29° 14.4' E	Fl.(3)W. period 10s	16 5	7		
17300 E 4916.6	-Balikci Adasi.	40° 49.2' N 29° 06.8' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	102 31	9	White metal framework tower; 20.	
17300.5 E 4916.9	-Buyukada.	40° 52.5' N 29° 07.5' E	Fl.(4)Y. period 10s	23 7	3		
17300.6 E 4916.85	-Ferry Pier.	40° 52.6' N 29° 07.7' E	Iso.Y. period 3s	23 7	3		
17300.65 E 4916.8	-Bank, N. side.	40° 52.5' N 29° 07.9' E	Fl.(3)Y. period 8s	23 7	5		
17301 E 4917.4	-Heybeli, S. mole, head.	40° 52.4' N 29° 06.3' E	Fl.R. period 3s	20 6	3	Metal framework tower; 16.	
17301.5 E 4917.2	--N. mole, head.	40° 52.4' N 29° 06.3' E	Fl.G. period 3s	20 6	3	White round concrete tower; 7.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TURKEY							
17302 E 4917.5	--Boat harbor, mole, head.	40° 52.9' N 29° 06.1' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	20 6	7	White framework tower; 10.	
17303 E 4917.6	-Burgaz Adasi.	40° 52.8' N 29° 04.3' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	13 4	3	White concrete tower; 10.	
17303.5 E 4917.8	--Pier, head.	40° 52.9' N 29° 04.2' E	Fl.(4)Y. period 15s	23 7	3		
17304 E 4915	-Dilek Kayaligi.	40° 54.9' N 29° 05.4' E	Q.(6)+L.Fl.W. period 15s	30 9	8	S. CARDINAL YB, beacon, topmark; 20.	Electric lights mark power cable between Chamasir Burnu, Prinkipo, and Halki.
	-RACON		B(- • • •)		20		
17316 E 4918	-Sivriada.	40° 52.5' N 28° 58.3' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	312 95	13	White column on building; 10.	
	-RACON		O(- - -)		20		
17317 E 4917.9	Kinaliada, ferry pier.	40° 54.6' N 29° 03.4' E	Iso.Y. period 2s	23 7	3		
17320 E 4914	-Yildiz Kayaligi.	40° 56.2' N 29° 05.2' E	V.Q.(9)W. period 10s	16 5	8	W. CARDINAL YBY, beacon, topmark; 13.	
17324 E 4913	-S. breakwater, head.	40° 57.0' N 29° 05.7' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	20 6	5	White concrete tower; 16.	AIS (MMSI No 992711135).
17324.5 E 4912.5	-Bostanci, pier, head.	40° 57.1' N 29° 05.6' E	Fl.G. period 3s	23 7	3		
17328 E 4910	-Fener Burnu.	40° 58.1' N 29° 01.9' E	Fl.(2)W. period 12s fl. 1.5s, ec. 2s fl. 1.5s, ec. 7s	82 25	15	White concrete tower and dwelling; 65.	
17336 E 4912	Oreke tasi.	40° 58.0' N 29° 01.8' E	Q.(2)W. period 5s	16 5	3	White concrete tower; 13.	
17337 E 4909.4	Fenerbahce, W. breakwater, head.	40° 58.4' N 29° 02.1' E	Fl.(2)G. period 10s fl. 1s, ec. 1s fl. 1s, ec. 7s		6		
17337.5 E 4909.6	-E. breakwater, head.	40° 58.4' N 29° 02.1' E	Fl.(2)R. period 10s fl. 1s, ec. 1s fl. 1s, ec. 7s		6		
17338 E 4909	-Marina, W. breakwater, head.	40° 58.6' N 29° 02.1' E	Fl.G. period 10s fl. 1s, ec. 9s		3		
17339 E 4909.2	--E. breakwater, head.	40° 58.6' N 29° 02.2' E	Fl.R. period 10s fl. 1s, ec. 9s		3		
17339.1 E 4908	-Moda Burnunda, jetty, head.	40° 58.7' N 29° 01.4' E	F.R.				
BOSPORUS:							
17340 E 4903	-Ahirkapi Burnu (Istanbul).	41° 00.4' N 28° 59.1' E	Fl.W. period 6s fl. 0.5s, ec. 5.5s	118 36	16	Black and white tower with building; 95.	Horn: 1 bl. ev. 20s (bl. 4s, si. 16s).
17344 E 4906	-Haydarpasa, inner detached breakwater, NW. extremity.	40° 59.9' N 29° 00.8' E	Fl.(2)G. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	23 7	3	White masonry tower; 11.	F.R. shown from NW. corner of passenger quay.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TURKEY							
17348 <i>E 4906.2</i>	--SE. extremity.	40° 59.7' N 29° 01.1' E	Fl.R. period 2s fl. 0.5s, ec. 1.5s	49 15	8	White concrete tower; 39.	Bell: 1 stroke ev. 6s.
17352 <i>E 4904</i>	--Outer detached breakwater, NW. extremity.	41° 00.5' N 29° 00.1' E	Fl.G. period 3s fl. 1s, ec. 2s	49 15	8	White concrete tower; 26.	
	--RACON		G(- - •)		20		
17356 <i>E 4904.2</i>	---SE. extremity.	40° 59.8' N 29° 00.8' E	Fl.(2)R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	26 8	3	White concrete tower; 13.	
	---RACON		C(- • - •)				
17360 <i>E 4904.6</i>	Kadikoy, breakwater, head.	40° 59.6' N 29° 00.8' E	Iso.W. period 4s	46 14	13	White concrete tower; 36.	
17361 <i>E 4904.8</i>	-SE. pier, head.	40° 59.5' N 29° 01.1' E	Fl.(4)Y. period 15s	23 7	3		
17361.1 <i>E 4906.4</i>	- Kadikoy, ferry pier.	40° 59.5' N 29° 01.3' E	Iso.Y. period 4s	23 7	3		
17361.2 <i>E 4906.6</i>	--Pier, head.	40° 59.6' N 29° 01.3' E	Fl.(4)Y. period 12s	23 7	3		
17362 <i>E 4906.8</i>	-Haydarpassa, jetty.	40° 59.8' N 29° 01.1' E	Fl.(4)Y. period 16s	23 7	3		
17364 <i>E 4907</i>	--Harem Vapur Iskele, S. breakwater, head.	41° 00.7' N 29° 00.4' E	Fl.(2)G. period 5s fl. 0.4s, ec. 0.6s fl. 0.4s, ec. 3.6s	23 7	6	White concrete tower; 10.	
17365 <i>E 4907.1</i>	---E. breakwater, head.	41° 00.7' N 29° 00.5' E	Iso.Y. period 3s	23 7	3		
17368 <i>E 4907.2</i>	---N. breakwater, head.	41° 00.8' N 29° 00.6' E	Fl.(2)R. period 5s fl. 0.4s, ec. 0.6s fl. 0.4s, ec. 3.6s	23 7	6	White concrete tower; 10.	
17369 <i>E 4907.3</i>	---Elbow.	41° 00.8' N 29° 00.6' E	Fl.W. period 5s	30 9	5		Metal tower.
17371	-Pasalimani, wharf.	41° 01.7' N 29° 00.9' E	Iso.Y. period 2s	23 7	3		
17372 <i>E 4903.8</i>	-Leander Tower (Kizkulezi), strait, E. side.	41° 01.3' N 29° 00.3' E	Fl.W.R. period 3s fl. 0.3s, ec. 2.7s	36 11	W. 14 R. 11	White metal tower, red band and building; 30.	W. 000°-030°, R.-000°. Lights mark power cable between Kizkulezi and Saray Burnu. Navigation control station.
17376 <i>E 4936.4</i>	-Bridge center.	41° 02.8' N 29° 02.1' E	Q.W.	210 64			R. Lts mark shore towers.
17380 <i>E 4936.5</i>	-Channel, NW. side.	41° 02.7' N 29° 01.9' E	Q.Y.	210 64			
17384 <i>E 4936.55</i>	--SE. side.	41° 02.6' N 29° 02.1' E	Q.Y.	210 64			
17388 <i>E 4903.7</i>	-Salipazari Rihimi.	41° 01.7' N 28° 59.3' E	Fl.(3)G. period 10s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 4s	42 13	10	White metal tower, green band; 33.	
17389 <i>E 4903.75</i>	-Kabatas.	41° 02.0' N 28° 59.6' E	Fl.(4)Y. period 12s	23 7	3		
17390	-SE. side.	41° 02.2' N 29° 01.8' E	Iso.Y. period 5s	23 7	3		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TURKEY							
17392 E 4937	-Beylerbeyi.	41° 02.6' N 29° 02.5' E	Fl.(2)R. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	33 10	9	White metal pylon; 32.	
17393	-SE. side.	41° 02.7' N 29° 02.7' E	IsO.Y. period 4s	23 7	3		
17396 E 4937.4	-Defterdar Burnu.	41° 03.0' N 29° 02.0' E	Fl.(2)G. period 12s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9s	49 15	7	White metal framework tower; 39.	
17400 E 4938.3	-Cengelkoy.	41° 03.2' N 29° 03.1' E	Fl.(3)R. period 15s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 8s	43 13	9	White metal framework tower, red bands; 33.	
17404 E 4938	-Kurucesme.	41° 03.4' N 29° 02.2' E	Fl.(3)G. period 16s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 9s	23 7	10	White galvanised metal tower, green band; 16.	
17408 E 4940	-Arnavutkoy.	41° 04.1' N 29° 02.8' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	36 11	10	White metal mast; 30.	
17412 E 4944	-Kandilli Burnu, strait, E. side.	41° 04.4' N 29° 03.3' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	89 27	12	White metal column; 33.	Navigation control station. 2 Fl.R. on radio mast 3.3 miles SE.
17414 E 4945	-Pier.	41° 04.5' N 29° 03.5' E	Fl.(4)Y. period 20s	23 7	3		
17416 E 4941	-Bebek, bank. N. extremity.	41° 04.7' N 29° 02.9' E	Fl.(2)G. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	16 5	5	White concrete tower; 16.	Fl.R. 3s and Fl.G. 3s mark boat channel into Bebek.
17420 E 4946	-Rumelihisari, on wall of fortress, strait, W. side.	41° 05.0' N 29° 03.4' E	Fl.(3)G. period 15s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 8s	23 7	8	White metal framework tower, green band; 16.	
17421 E 4946.1	-Anadolu Hisari.	41° 05.0' N 29° 04.0' E	Fl.(4)Y. period 10s	23 7	3		
17422 E 4946.2	-Fatih Sultan Mehmet Bridge, center.	41° 05.5' N 29° 03.7' E	Oc.Y. period 6s	222 68			Fl.R. Lts mark shore towers.
17422.4 E 4946.4	--Channel, W. side.	41° 05.5' N 29° 03.5' E	Oc.Y. period 6s	220 67			
17422.6 E 4946.6	---E. side.	41° 05.5' N 29° 03.8' E	Oc.Y. period 6s	220 67			
17424 E 4947	-Balta Limani.	41° 06.0' N 29° 03.3' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	39 12	5	White metal pillar; 33.	
17428 E 4948	-Kanlica Burnu, strait, E. side.	41° 06.2' N 29° 04.0' E	Fl.(2)R. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	39 12	8	White iron column; 36.	Reserve light range 6M.
17432 E 4949.4	-Pasabahce, near factory.	41° 07.0' N 29° 05.4' E	Fl.(3)R. period 15s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 8s	46 14	9	White iron tower; 39.	
17436 E 4949	-Istinye.	41° 06.8' N 29° 03.7' E	Fl.(2)G. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	46 14	9	White tower, green bands; 33.	
17438 E 4949.6	-Yenikoy.	41° 07.4' N 29° 04.4' E	Q.(3)W. period 10s	20 6	6	E. CARDINAL BYB, concrete column, topmark.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TURKEY							
17444 E 4949.5	-Incirkoy.	41° 07.7' N 29° 05.8' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	52 16	8	Metal pole.	
17445 E 4949.55	-Beykoz.	41° 08.1' N 29° 05.4' E	Fl.(4)Y. period 12s	23 7	3		
17452 E 4950	-Kirec Burnu.	41° 08.9' N 29° 02.8' E	Fl.(3)G. period 15s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 8s	36 11	11	White metal tower, green band; 30.	
17456 E 4949.7	-Selvi Burnu, breakwater, head.	41° 08.6' N 29° 04.3' E	Fl.(2)R. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	43 13	8	Framework tower; 33.	
17457 E 4949.9	-Umur Banklari, S end.	41° 08.7' N 29° 04.1' E	Q.(6)+L.Fl.W. period 15s			S. CARDINAL YB, beacon, topmark.	AIS (MMSI No 992711005).
17460 E 4949.8	--Jetty extension.	41° 08.9' N 28° 04.4' E	F.G.	23 7		White concrete column on pedestal.	
17468 E 4952	-Buyukdere.	41° 09.7' N 29° 02.9' E	Fl.G. period 3s fl. 1s, ec. 2s	33 10	9	White metal tower, green band; 30.	
17472 E 4953.2	-Overhead cable, E. head.	41° 10.1' N 29° 05.2' E	2 Fl.R. period 2s	817 249	11	Red and white framework tower; 407.	
17476 E 4953	--W. head.	41° 10.6' N 29° 04.2' E	2 Fl.R. period 2s	797 243	11	Red and white framework tower; 407.	
17480 E 4954	-Kavak Burnu, in fort.	41° 10.7' N 29° 05.2' E	Fl.(3)R. period 15s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 8s	52 16	8	White concrete tower; 16.	
17484 E 4955	-Dikili Tas.	41° 10.9' N 29° 04.7' E	Fl.(2)G. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	30 9	12	White galvanized metal tower, green band, on concrete base; 26.	
	-RACON		B(- • • •)				
17488 E 4955.4	-Cali Burnu.	41° 12.5' N 29° 06.4' E	Fl.(3)G. period 15s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 8s	108 33	5	White iron tower; 20.	
17490 E 4955.3	-Poyraz Burnu, W. breakwater, head.	41° 12.3' N 29° 07.5' E	Fl.R. period 4s	52 16	5		
17496 E 4956	-Rumeli Burnu.	41° 14.1' N 29° 06.8' E	Fl.(2)W. period 12s fl. 1s, ec. 3s fl. 1s, ec. 7s	190 58	18	White round stone tower; 98.	Nautophone: 1 bl. ev. 20s (bl. 4s, si. 16s).
17500 E 4956.2	--E. breakwater, head.	41° 13.7' N 29° 06.9' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	33 10	7	White concrete tower; 23.	AIS (MMSI No 992711393).
17504 E 4956.4	--W. breakwater, head.	41° 13.8' N 29° 06.8' E	Fl.R. period 5s fl. 1s, ec. 4s	23 7	5	White concrete tower; 16.	AIS (MMSI No 992711389).
17508 E 4958	-Anadolu.	41° 13.0' N 29° 09.1' E	L.Fl.W. period 20s fl. 2s, ec. 18s	246 75	20	White stone tower and dwelling; 66.	Signal station.
	-RACON		C(- • - •)				
17512 E 4960	-Yom Burnu FOG SIGNAL.	41° 13.3' N 29° 10.2' E					Siren: 2 bl. ev. 32s.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TURKEY							
17516 <i>E 4962</i>	Dalyan Burnu, at extremity.	41° 15.3' N 29° 02.4' 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	82 25	W. 12 R. 9	White metal framework tower; 26.	W. 105°-162°, R.-175°, W.- 346°, R.-105°. AIS (MMSI No 992711036).
TURKEY-BLACK SEA							
17520 <i>E 4964</i>	Karaburnu.	41° 21.0' N 28° 41.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	177 54		White framework tower; 39.	
17524 <i>E 4965</i>	Kiyikoy.	41° 38.0' N 28° 06.0' E	Fl.W. period 10s	121 37		White framework tower; 33.	
17525 <i>E 4965.1</i>	-Main breakwater, head.	41° 37.9' N 28° 06.1' E	Fl.G. period 5s fl. 1s, ec. 4s	23 7		Concrete tower; 16.	
17525.5 <i>E 4965.2</i>	-Secondary breakwater, head.	41° 37.9' N 28° 06.1' E	Fl.R. period 5s fl. 1s, ec. 4s	23 7		Concrete tower; 13.	
17528 <i>E 4966</i>	Igneada Burnu.	41° 53.2' N 28° 03.5' E	Fl.(2)W. period 15s fl. 0.3s, ec. 4.7s fl. 0.3s, ec. 9.7s	144 44		White masonry tower, dwelling; 26.	
17532 <i>E 4966.4</i>	-E. breakwater, head.	41° 53.3' N 28° 01.3' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	39 12		White concrete tower, green band.	
17536 <i>E 4966.6</i>	-W. breakwater, head.	41° 53.2' N 28° 01.2' E	Fl.R. period 5s fl. 1s, ec. 4s	39 12		White concrete tower, red band; 42.	
BULGARIA							
17540 <i>E 4968</i>	Akhtopol.	42° 06.1' N 27° 57.1' E	Q.(6)+L.Fl.W. period 15s	49 15		S. CARDINAL YB, tower; 36.	
17544 <i>E 4970</i>	Michurin (Tzarevo), on rock.	42° 10.1' N 27° 52.2' E	Q.W.	39 12		N. CARDINAL BY, tower; 33.	
17548 <i>E 4971</i>	-Breakwater, head.	42° 10.3' N 27° 51.7' E	Iso.G. period 4s	39 12		White round tower; 30.	
17550 <i>E 4971.5</i>	-Main Light.	42° 10.2' N 27° 51.2' E	L.Fl.W. period 7s fl. 3s, ec. 4s	134 41		Dwelling; 66.	
17552 <i>E 4972</i>	Primorsko, pier, head.	42° 16.0' N 27° 45.5' E	L.Fl.W. period 5s fl. 2s, ec. 3s	26 8		White round tower; 16.	
17556 <i>E 4974</i>	Maslen Nos.	42° 18.5' N 27° 47.7' E	Fl.(3)W. period 17.2s fl. 0.4s, ec. 4s fl. 0.4s, ec. 4s fl. 0.4s, ec. 8s	123 37		White stone tower; 23.	
BURGASKI ZALIV:							
17564 <i>E 4976</i>	-Sveti Ivan.	42° 26.3' N 27° 41.6' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	144 44		White round concrete tower, dwelling; 43.	Horn: 4 bl. ev. 30s.
17572 <i>E 4980</i>	-Ostrov Bolshevik.	42° 28.1' N 27° 33.1' E	L.Fl.W.R. period 8s fl. 2s, ec. 6s	71 22	W. 8 R. 4	White round concrete tower; 39.	R. 272°-312°, W.-272°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
BULGARIA							
17576 <i>E 4981</i>	-Point Chu Kalya.	42° 27.5' N 27° 32.5' E	F.R.			White tower with red bands.	
17577 <i>E 4981.3</i>	-Rossentz, pier, head.	42° 27.3' N 27° 31.9' E	L.F.I.R. period 20s fl. 4s, ec. 16s	23 7	5	White concrete platform; 16.	
17578 <i>E 4981.4</i>	--Range, front.	42° 26.5' N 27° 31.8' E	F.R.			White square tower, black stripe.	
17578.1 <i>E 4981.41</i>	---Rear, 120 meters 180°42' from front.	42° 26.4' N 27° 31.8' E	F.R.			White square tower, black stripe.	
-Burgas:							
17580 <i>E 4984</i>	--E. breakwater, head.	42° 28.9' N 27° 29.1' E	Fl.W. period 3s fl. 1s, ec. 2s	79 24	14	White round concrete tower, red bands; 46.	Visible 253°-153°. Nautophone: Mo.(B) ev. 30s.
17581 <i>E 4983</i>	--Terminal 2A.	42° 28.7' N 27° 28.0' E	Fl.W. period 11s fl. 0.5s, ec. 10.5s	30 9	4		
17582 <i>E 4983.5</i>	--Breakwater, head.	42° 28.4' N 27° 28.6' E	Fl.W. period 4s fl. 1s, ec. 3s	36 11	11		
17583 <i>E 4983.8</i>	---Spur.	42° 28.9' N 27° 28.8' E	Fl.R. period 4s fl. 1s, ec. 3s	30 9	4		
17584 <i>E 4986</i>	--Arm extending W. from E. breakwater.	42° 29.0' N 27° 28.8' E	Iso.G. period 4s	33 10	2	White round metal tower; 20.	Visible 333°-213°.
17588 <i>E 4988</i>	--W. breakwater, E. head.	42° 29.0' N 27° 28.9' E	Iso.R. period 4s	33 10	2	White round metal tower; 20.	
17589 <i>E 4988.5</i>	--Pobeda, pier, head.	42° 28.7' N 27° 27.0' E	Oc.W. period 4.5s lt. 2.5s, ec. 2s	30 9	4	Red beacon, yellow band; 20.	
17592 <i>E 4989</i>	--Korabostroitelnitsy, jetty, N. head.	42° 27.6' N 27° 27.4' E	L.F.I.G. period 6s fl. 2s, ec. 4s	20 6	3	White round metal tower, green band; 13.	
17596 <i>E 4989.2</i>	---Jetty, S. head.	42° 27.5' N 27° 27.2' E	L.F.I.R. period 6s fl. 2s, ec. 4s	20 6	3	White round metal tower, red band; 13.	
17604 <i>E 4990</i>	Pomorie, SE. reef.	42° 33.1' N 27° 39.8' E	Q.(3)W. period 10s	39 12	6	Black round stone tower, yellow band; 26.	
17608 <i>E 4994</i>	Nesebur.	42° 39.3' N 27° 43.8' E	Fl.R.G. period 8s	33 10	R. 4 G. 2	White framework tower; 20.	R. 240°-285°, G.-240°.
17612 <i>E 4996</i>	Nos Emine.	42° 42.2' N 27° 54.1' E	Fl.W. period 6s fl. 1.5s, ec. 4.5s	210 64	20	Tower on white building; 30.	
17616 <i>E 4998</i>	Sveti Athanas.	42° 51.3' N 27° 53.0' E	Oc.R. period 7s lt. 4s, ec. 3s	125 38	12	White metal framework on stone tower; 33.	
VARNENSKI ZALIV:							
17624 <i>E 5000</i>	-Nos Galata.	43° 10.3' N 27° 57.8' E	Fl.(3)W. period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 2s fl. 0.5s, ec. 10s	249 76	26	White octagonal tower and dwelling, beige stripes; 72.	Nautophone: Mo.(W) ev. 30s.
17628 <i>E 5004</i>	-Port Varna.	43° 11.2' N 27° 55.3' E	Fl.W. period 10s	56 17	10	White round metal tower; 29.	Nautophone: 2 bl. ev. 10s.
17632 <i>E 5006</i>	--S. breakwater, head.	43° 11.5' N 27° 55.1' E	Iso.R. period 4s	33 10	2	White tower; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
BULGARIA							
17633 E 5005	--E. breakwater, head.	43° 11.5' N 27° 55.2' E	Iso.G. period 4s	33 10	2	White round metal tower; 20.	
17640 E 5008.5	-Yevksinogradskiy, mole, head.	43° 13.1' N 27° 59.3' E	F.R.	62 19	6	White round metal tower; 52.	
17642 E 5008.7	Nos Kavaklar.	43° 15.1' N 28° 01.7' E	Fl.W. period 7s				
17646 E 5009.5	Balcik.	43° 24.2' N 28° 09.9' E	F.W.	26 8	5	Metal column; 20.	
17648 E 5010	Bukhta Balchik, breakwater, head.	43° 23.6' N 28° 10.1' E	L.Fl.R. period 5.5s fl. 2.5s, ec. 3s	33 10	8	Skeleton tower; 26.	
17652 E 5011	-Pier, root.	43° 24.7' N 28° 21.1' E	Iso.W. period 5s	39 12	5	White metal column, concrete base; 30.	
17656 E 5012	Nos Kaliakra.	43° 21.8' N 28° 28.1' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	223 68	21	White masonry tower on dwelling; 33.	
17660 E 5016	Nos Shabla.	43° 32.2' N 28° 36.5' E	Fl.(3)W. period 20s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 2.5s fl. 1s, ec. 15s	118 36	17	White octagonal stone tower, red bands; 105.	
ROMANIA							
17664 E 5018	Mangalia , about 4 km. 282° from breakwater light.	43° 48.7' N 28° 33.6' E	Fl.(2)W. period 5.5s fl. 0.1s, ec. 1.3s fl. 0.1s, ec. 4s	236 72	22	White pyramidal stone tower; 138.	
17668 E 5019	--NE. breakwater.	43° 48.0' N 28° 36.1' E	Fl.W. period 4s fl. 1.5s, ec. 2.5s	75 23	10	Metal tower; 69.	Nauphone: (700 meters 255°) Mo.(U) ev. 40s.
17672 E 5019.5	--Spur.	43° 48.1' N 28° 35.8' E	Fl.G. period 3s fl. 1s, ec. 2s	49 15	5	Gray stone and concrete dwelling; 42.	
17684 E 5020	--SE. breakwater, head.	43° 48.0' N 28° 46.0' E	Fl.R. period 3s fl. 1s, ec. 2s	49 15	5	Gray stone and concrete dwelling; 42.	
17688 E 5022	Capul Tuzla.	43° 59.5' N 28° 40.0' E	Fl.(2)W. period 9.7s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 7s	203 62	20	White round metal tower, black bands; 144.	Visible 191°-014°. Horn: MO(U) 1 bl. ev. 40s (bl. 1.5s, si. 1s, bl. 1.5s, si. 1s, bl. 5s, si. 30s).
			F.R.	187 57	6	Same structure.	Visible 162°-192°.
CONSTANTA:							
17690 E 5027.2	--Constanta Sud.	44° 06.5' N 28° 39.9' E	Fl.R. period 3s	16 5			Radar reflector.
17692 E 5025	-Constanta.	44° 09.5' N 28° 37.8' E	Fl.(2)W. period 29.8s fl. 0.4s, ec. 6.6s fl. 0.4s, ec. 22.4s	285 87	24	White pyramidal concrete tower; 190.	
17700 E 5026	--Outer Harbor, E. breakwater, head.	44° 08.6' N 28° 40.5' E	Fl.W. period 4.5s fl. 1.5s, ec. 3s	79 24	10	Gray granite tower; 59.	Horn: Mo.(U) ev. 40s (bl. 1.5s, si. 1s, bl. 1.5s, si. 1s, bl. 5s, si. 30s).
17704 E 5026.2	--E. breakwater, traverse arm.	44° 08.9' N 28° 40.3' E	Fl.G. period 3s fl. 1s, ec. 2s	46 14	5	Gray stone building; 32.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ROMANIA							
17708 E 5026.4	--S. breakwater, head.	44° 08.8' N 28° 40.1' E	Fl.R. period 3s fl. 1s, ec. 2s	46 14	5	Gray stone building; 32.	
17720 E 5028.2	-Tomas Portul, E.	44° 10.7' N 28° 39.7' E	Fl.R. period 3s	33 10	4	Red metal mast; 26.	
17728 E 5028	-Marina, NE. side.	44° 10.7' N 28° 39.7' E	Fl.G. period 3s	33 10	4	Green metal mast; 26.	
17732 E 5030	Cape Midia.	44° 20.9' N 28° 41.1' E	Fl.W. period 5s fl. 1.5s, ec. 3.5s	118 36	17	Red framework tower, white bands, white cupola; 72.	Horn: MO(U) ev. 40s
17733 E 5030.2	-Entrance.	44° 19.3' N 28° 41.8' E	Fl.W. period 5s fl. 1.5s, ec. 3.5s	82 25	10	Metal structure on white concrete tower; 59.	
17736 E 5031	Gura Portita, fairway, S. side.	44° 40.5' N 28° 59.3' E	Fl.W. period 9s fl. 1s, ec. 8s	72 22	10	Black framework tower, white bands and white rectangular cupola; 72.	
DANUBE RIVER ENTRANCES:							
17740 E 5032	-Gura Sfintu Gheorghe.	44° 54.0' N 29° 36.1' E	Fl.(2)W. period 7.2s fl. 0.1s, ec. 1.7s fl. 0.1s, ec. 5.3s	157 48	19	Blue tower; 164.	
17744 E 5034	-Sulina.	45° 08.9' N 29° 45.6' E	Fl.(3)W. period 16.2s fl. 0.4s, ec. 1.5s fl. 0.4s, ec. 1.5s fl. 0.4s, ec. 12s	161 49	19	White round stone tower, red cupola; 157.	Visible 165°-045°. Nautophone: Mo.(U) 40s. (bl. 1.5s, si. 1s, bl. 1.5s, si. 1s, bl. 5s, si. 30s). Radar reflector.
						-RACON	(3 & 10cm)
17745 E 5034.2	--S. breakwater, head.	45° 08.7' N 29° 46.1' E	Fl.R. period 5.5s fl. 0.7s, ec. 4.8s	30 9	3	Metal tower; 13.	
17745.5 E 5034.4	--N. breakwater, head.	45° 08.8' N 29° 46.2' E	Fl.G. period 5.5s fl. 0.7s, ec. 4.8s	30 9	3	Metal tower; 13.	
UKRAINE							
17772 E 5036	Ostrov Zmeinyy.	45° 14.9' N 30° 11.9' E	Fl.W. period 4.5s fl. 1.5s, ec. 3s	194 59	17	White tower; 59.	Reserve light Fl.(3)W. 15s 15M.
17772.3 E 5036.3	-Breakwater.	45° 19.7' N 29° 47.5' E	Fl.(2)G. period 5s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 3.5s	20 6	8	Green column, white band; 17.	
17790 E 5038	-Bystroye Girlo Range, front.	45° 20.5' N 29° 45.9' E	Iso.R. period 4s		8	Black rectangular metal framework tower; 39.	Visible 180°-350°.
17790.1 E 5038.01	--Rear, 216 meters 308° from front.	45° 20.5' N 29° 45.7' E	Oc.W. period 5s lt. 3s, ec. 2s		9	White rectangular metal framework tower, black stripe; 49.	Visible on range line only.
17792 E 5041.2	Prorvinskiy Rezervnyy.	45° 28.6' N 29° 44.3' E	Fl.W. period 7s fl. 1s, ec. 6s	95 29	12	Red framework tower; 56.	Visible 207°30'-006°30'. Shown when Girlo Prorva is extinguished.
17796 E 5042	--Entrance Range, front.	45° 27.9' N 29° 43.2' E	FR.	33 10	6	Black rectangular daymark, black round topmark; 39.	
17800 E 5042.1	---Rear, 0.7 km. 219°12' from front.	45° 27.6' N 29° 42.8' E	FR.	56 17	6	Black rectangular daymark, black round topmark; 59.	

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UKRAINE							
17808 E 5053	Primorskoye.	45° 31.8' N 29° 38.9' E	Fl.W. period 5s fl. 1s, ec. 4s	59 18	12	Black metal framework tower; 39.	Radar reflector.
17820 E 5053.6	Ozero Shagany.	45° 40.4' N 29° 53.1' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	65 20	14	Black trapezoidal daymarks on red concrete column; 52.	Reserve light range 7M.
17824 E 5054	Burnas.	45° 49.7' N 30° 09.3' E	Iso.R. period 2s	82 25	8	White stone structure on yellow building; 43.	
17828 E 5056	Budaki.	45° 55.2' N 30° 17.2' E	Fl.W. period 5s fl. 1s, ec. 4s	125 38	17	Red square iron tower, black square daymark, white stripe, wind generator; 49.	Reserve light range 7M.
DNESTROVSKIY LIMAN:							
17840 E 5060	-Tsaregradskoye Girlo Range, front.	46° 04.5' N 30° 28.1' E	F.G.	75 23	8	Red framework tower, red daymark, white stripe; 69.	Visible on range line only. Traffic signals.
			F.G.	72 22			Visible 180°-270°.
17844 E 5060.1	--Rear, 220 meters 265°06' from front.	46° 04.5' N 30° 28.3' E	L.Fl.W. period 7.5s fl. 3s, ec. 4.5s	112 34	16	Red framework tower, red rectangular daymark, white stripe, 2 white bands; 105.	Reserve light range 10M.
			F.G.	105 32	8		Visible on range line only.
17848 E 5068	Sanzheyskiy.	46° 13.4' N 30° 36.6' E	Fl.(2)G. period 15s fl. 0.4s, ec. 3.2s fl. 0.4s, ec. 11s	115 35	17	White octagonal stone tower; 62. Floodlit.	Visible 215°-035°. Reserve light range 10M.
ODESSKIY ZALIV TRAFFIC SEPARATION SCHEME:							
17852	-Buoy 1.	46° 08.0' N 31° 06.0' E	Q.(3)W. period 10s			E. CARDINAL BYB, pillar, topmark.	Radar reflector.
	-RACON		R(• - •) period 30s		15		
IL'ICHEVSKIY:							
17860 E 5071	-S. mole, head.	46° 18.9' N 30° 40.9' E	Oc.(2)R. period 12s lt. 4.5s, ec. 4.5s lt. 1.5s, ec. 1.5s	66 20	15	White round concrete tower, red bands; 59.	Reserve light range 7M.
17864 E 5071.4	-N. mole, head.	46° 19.1' N 30° 39.9' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	39 12	4	Red metal column; 33.	
17868 E 5072	-Aleksandrouka, entrance Range, front.	46° 19.5' N 30° 39.1' E	F.G. (neon)	151 46	10	Black metal framework tower, white rectangular daymark, black stripe; 89.	Visible on range line only.
17872 E 5072.1	--Rear, about 0.7 km. 288°30' from front.	46° 19.6' N 30° 38.5' E	FR. (neon)	236 72	11	Black metal framework tower, white rectangular daymark, black stripe; 95.	Visible on range line only.
IL'ICHEVSK:							
17876 E 5073	-Severnyy Portovyy, inner N. mole, head.	46° 19.1' N 30° 40.6' E	L.Fl.G. period 6s fl. 2s, ec. 4s	33 10	4	White round metal column, black bands; 26.	
17878 E 5072.6	--S. inner mole.	46° 19.0' N 30° 40.5' E	L.Fl.R. period 6s fl. 2s, ec. 4s	33 10	4	White round metal column, red bands; 26.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
UKRAINE							
17884 E 5075	-W. entrance, W. side.	46° 20.0' N 30° 39.3' E	L.F.I.R. period 6s fl. 2s, ec. 4s	20 6	4	Gray metal framework tower on dolphin; 13.	
17885 E 5072.3	--E. side.	46° 19.4' N 30° 40.1' E	L.F.I.G. period 6s		2		
17886 E 5076.3	-Ostrova Dambovy, E. entrance, W. side.	46° 20.1' N 30° 39.6' E	L.F.I.R. period 6s fl. 2s, ec. 4s	39 12	4	White round metal column, red bands; 26.	
17888 E 5076.4	--E. side.	46° 20.1' N 30° 39.7' E	L.F.I.G. period 6s fl. 2s, ec. 4s	39 12	4	White round metal column, black bands; 26.	
17889 E 5076.35	--W. entrance, E. side.	46° 19.9' N 30° 39.5' E	L.F.I.G. period 6s		2		
17892 E 5076	-Sukhoy Liman Range, front.	46° 20.4' N 30° 39.0' E	F.G.	131 40	2	Metal framework tower, white rectangular daymark, black stripe; 52.	Visible 340°42'-350°42'.
17896 E 5076.1	--Rear, 247 meters 345°42' from front.	46° 21.0' N 30° 39.2' E	F.W.	167 51	3	Metal framework tower, white rectangular daymark, black stripe; 92.	Visible 340°42'-350°42'.
17898 E 5076.8	-Berth No. 23.	46° 20.5' N 30° 39.0' E	L.F.I.R. period 6s fl. 2s, ec. 4s	23 7	4	White round metal column, red bands; 16.	
17899 E 5077.5	-Ferry Pier.	46° 20.7' N 30° 39.1' E	F.I.G. period 2s	36 11	2	Black round metal column, white bands; 20.	
17899.1 E 5077.3	-RoRo berth.	46° 20.2' N 30° 39.3' E	L.F.I.G. period 6s fl. 2s, ec. 4s	26 8	4	White metal column, black bands.	
17899.5 E 5077.55	-Beacon.	46° 20.8' N 30° 38.8' E	L.F.I.G. period 6s		2		
17900 E 5077.7	-Pier SR3.	46° 20.5' N 30° 38.5' E	F.G.	26 8	1	Round metal framework tower; 16.	
17904 E 5078	Odesskiy Zaliv.	46° 22.9' N 30° 44.9' E	Fl.(3)W. period 12s fl. 1.5s, ec. 1.5s fl. 1.5s, ec. 1.5s fl. 1.5s, ec. 4.5s	275 84	22	White metal framework tower, central column; 89.	Visible 197°-047°. Reserve light Fl.W. 5s 9M. Nauphone: (370 meters SE.) 3 bl. ev. 30s. Reserve Bell: 2 strokes ev. 120s.
ODESSA:							
17912 E 5082	- Reydovyy , approach Range, front.	46° 29.8' N 30° 45.7' E	Fl.(3)R. period 12s fl. 0.3s, ec. 2.1s fl. 0.4s, ec. 2.1s fl. 0.3s, ec. 6.8s	88 27	15	White round tower, red lantern; 85.	Nauphone: 5 bl. ev. 60s. Reserve Bell.
17916 E 5084	-- Odesskiy Stvorny , rear, 1.93 km. 250°24' from front.	46° 29.4' N 30° 44.0' E	F.R.	180 55	18	White hut on roof of building; 66.	F.W. 8M by day.
17920 E 5086	-Detached breakwater, E. head.	46° 29.7' N 30° 45.5' E	F.I.G. period 3s fl. 1s, ec. 2s	36 11	3	White metal framework tower; 30.	
17924 E 5088	--W. head.	46° 29.9' N 30° 44.6' E	F.I.R. period 3s fl. 1s, ec. 2s	36 11	3	White metal framework tower; 30.	
17928 E 5090	-Dredged channel Range, front.	46° 30.0' N 30° 44.4' E	F.I.G. period 3s	33 10	2	Metal framework tower, white shield, black stripe, triangular daymark; 33.	Visible on range line only.
17932 E 5090.1	--Rear, 695 meters 274°36' from front.	46° 30.2' N 30° 43.8' E	F.G. (neon)	82 25	3	White triangular daymark, white rectangular daymark, black stripe; 72.	Visible on range line only.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
UKRAINE							
17936 E 5103	-Neftyanaya Gavan', entrance Range, front.	46° 30.8' N 30° 43.9' E	F.G. (neon)	72 22	3	Framework tower, black trapezoidal daymark; 72.	Visible on range line only.
17940 E 5103.1	--Rear, 200 meters 327°36' from front.	46° 30.9' N 30° 43.8' E	F.R. (neon)	95 29	3	Framework tower, black trapezoidal daymark; 85.	Visible on range line only.
17944 E 5102	--Auxiliary Range, front.	46° 29.9' N 30° 44.8' E	Fl.G. period 1.5s fl. 0.5s, ec. 1s	33 10	3	Mast, white daymark, black stripe; 33.	Visible on range line only.
17948 E 5102.1	---Rear, about 2.2 km. 147°36' from front.	46° 28.8' N 30° 45.7' E	F.R. (neon)	131 40	4	Column, white daymark, black stripe; 49.	Visible on range line only.
17952 E 5091	-W. breakwater, S. head.	46° 29.9' N 30° 44.4' E	L.Fl.G. period 6s fl. 2s, ec. 4s	39 12	2	White round concrete column; 33.	
17956 E 5092	--N. head.	46° 30.3' N 30° 44.2' E	L.Fl.R. period 6s fl. 2s, ec. 4s	39 12	3	White round concrete column; 33.	
17958 E 5089	-Potapovskiy, mole, head.	46° 29.8' N 30° 44.5' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	23 7	2	Green metal post; 16.	
17960 E 5089.4	--W. head.	46° 29.8' N 30° 44.4' E	Fl.Bu. period 3s fl. 0.5s, ec. 2.5s	23 7		Black round metal column; 16.	
17964 E 5100	-Mole T-head, SE. head.	46° 30.6' N 30° 44.3' E	Fl.Bu. period 3s	33 10	1	White round metal column; 26.	
17984 E 5106	Mys Severnyy Odesskiy.	46° 33.1' N 30° 49.7' E	Fl.W. period 5s fl. 1.5s, ec. 3.5s	184 56	16	Orange column on white round concrete tower; 33.	Reserve light range 8M.
17988 E 5107	Grigoryevskiy.	46° 35.9' N 31° 00.1' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	197 60	18	White round concrete tower, black can topmark, lower part truncated cone; 49.	Visible 272°-060°. Reserve light Fl.R. 5s 8M.
17992 E 5108	Sychavskiy.	46° 36.6' N 31° 06.9' E	Fl.W. period 4s fl. 1.5s, ec. 2.5s	144 44	15	Gray metal framework tower, on roof of white building; 33.	Reserve light range 8M.
18000 E 5110	Mys Karabush.	46° 37.0' N 31° 15.6' E	Fl.(2)W. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	180 55	14	White round concrete tower, black daymark; 52.	Reserve light range 5M.
18008 E 5116	Ostrov Berezan'.	46° 35.9' N 31° 24.8' E	Fl.G. period 3.5s	105 32	4	Black masonry pillar; 36.	
DNEPROVSKIY LIMAN:							
18016 E 5118	-Berezan'-Ochakov Range, front.	46° 36.6' N 31° 32.5' E	Iso.R. period 3s	126 38	14	White round masonry tower, black stripe, round daymark; 63.	Visible 339°-159°. Reserve light Iso.W. 3s 3M.
18020 E 5118.1	--Rear, 820 meters 068°54' from front.	46° 36.7' N 31° 33.0' E	Oc.R. period 6s	161 49	14	White round masonry tower, black stripe, round daymark; 66.	Visible 339°-159°. Reserve light Oc.W. 6s 4M. Signal station.
18024 E 5126	-Viktorovka Range, front.	46° 37.6' N 31° 27.0' E	F.R.	62 19	12	White round concrete tower, orange rectangular daymark; 56.	
18028 E 5126.1	--Rear, 4.6 km. 314°42' from front.	46° 39.3' N 31° 24.4' E	F.W.	135 41	18	White metal framework tower, orange rectangular daymark; 52.	Visible 255°-015°. Shown on request by day or in poor visibility.
18044 E 5128	-Fort Nicolaev Range, front.	46° 34.5' N 31° 33.6' E	F.R.	45 14	5	White round iron tower; 40.	Visible 060°-140°.
18048 E 5128.1	--Rear, 73 meters 092°36' from front.	46° 34.5' N 31° 33.5' E	F.W.R.G.	79 24	5	Black iron framework structure, concrete base, black rectangular daymark, white stripe; 85.	G. 060°-140°, R. 171°- 187°, W. 190°-262°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
UKRAINE							
18056 <i>E 5136.1</i>	-Fifth Reach, W.	46° 35.4' N 31° 32.9' E	Iso.W. period 3s	92 28	10	Gray metal framework tower, concrete base, orange rectangular daymark, black stripe; 92.	Intensified 268°18'.
18058 <i>E 5124</i>	-Kinburnskaya Kosa.	46° 34.6' N 31° 30.8' E	Fl.W. period 3s	29 9	7	Black framework square metal tower; 26.	Radar reflector.
18060 <i>E 5137</i>	-Vostochnyy Range, front.	46° 35.7' N 31° 49.2' E	Q.W.	36 11	10	Gray iron tower, concrete base, black quadrangular daymark, white stripe; 52.	
18064 <i>E 5137.1</i>	--Rear, 3.5 km. 088°18' from front.	46° 35.7' N 31° 52.0' E	Iso.W. period 3s	88 27	10	Gray iron tower, concrete base, black quadrangular daymark, white stripe; 105.	
18068 <i>E 5130</i>	-Adzhigol'skiy Range, front.	46° 36.0' N 31° 38.8' E	Q.R.	55 17	10	Gray square concrete tower, black daymark, white stripe; 49.	
18072 <i>E 5130.1</i>	--Middle, 5.17 km., 069°06' from front.	46° 37.0' N 31° 42.5' E	Iso.W. period 4s	111 34	17	Red framework iron tower, concrete base, red daymark; 98.	Visible on range line only.
18076 <i>E 5130.2</i>	--Rear, 9.95 km. 069°06' from front.	46° 37.9' N 31° 46.0' E	F.W.	220 67	23	Red framework tower, red square daymark; 79.	Visible on range line only.
18080 <i>E 5146</i>	-Adzhigol'skay Kosy Range, front.	46° 36.8' N 31° 47.9' E	Fl.R. period 2.5s fl. 0.5s, ec. 2s	26 8	2	White stone tower, black rectangular daymark, white stripe; 22.	Visible 280°-050° Shown when lighted buoys are withdrawn.
18084 <i>E 5146.1</i>	--Rear, 160 meters 350° from front.	46° 36.8' N 31° 47.8' E	Iso.W. period 4s	33 10	4	White stone tower, black rectangular daymark, white stripe; 29.	Visible 280°-050°.
18088 <i>E 5149</i>	-Stanislav Range , front.	46° 30.7' N 32° 09.1' E	F.R.	79 24	16	Red iron framework tower; 85.	Visible on range line only. Shown on request by day or in poor visibility.
18092 <i>E 5149.1</i>	--Rear, 6.49 km. 109° from front.	46° 30.0' N 32° 14.0' E	F.W.	221 67	19	Red iron framework tower; 211.	Visible on range line only. On request and in poor visibility.
REKA BUG:							
18095 <i>E 5181.9</i>	-Limanozharskiy Range, front.	46° 38.2' N 31° 55.8' E	Q.W.	36 11	8	White concrete column, orange stripe; 36.	
18096 <i>E 5182</i>	--Mys Khablovskiy, middle, 4.8 km. 064°06' from front.	46° 39.0' N 31° 58.7' E	Iso.R. period 6s	111 34	10	White concrete column, red stripe; 36. Floodlit.	
			F.W.		5		
18100 <i>E 5182.1</i>	--Rear, 8.6 km. 064°06' from front.	46° 39.9' N 32° 01.9' E	F.W.	190 58	20	Black square stone tower, white stripe; 79.	Visible on range line only.
18110 <i>E 5192</i>	-Bugskiy Range, front.	46° 46.0' N 31° 56.7' E	Iso.R. period 3s	46 14	5	Metal framework tower, black diamond on white rectangular daymark, black stripe; 43.	Visible 090° each side of range line.
18110.1 <i>E 5192.1</i>	--Rear, 259 meters 045°30' from front.	46° 46.1' N 31° 56.8' E	Oc.R. period 6s lt. 4.5s, ec. 1.5s	56 17	5	Metal framework tower, black diamond on white rectangular daymark, black stripe; 43.	
REKA DNEPR:							
18164 <i>E 5152</i>	-Kizomys Range, front.	46° 33.8' N 32° 18.7' E	F.R. (neon)	49 15	12	Square daymark on white stone house; 19.	Visible on range line only.
18168 <i>E 5152.1</i>	--Rear, 1630 meters 075°54' from front.	46° 34.0' N 32° 20.0' E	F.W. (neon)	114 35	12	Red trapezoidal daymark on framework tower; 89.	Visible on range line only.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
UKRAINE							
REKA RVACH							
18172 <i>E 5156</i>	-Malyy Kasperdviskiy Entrance Range, front.	46° 33.3' N 32° 19.2' E	F.G. (neon)		37 11	2 Black daymarks, white stripe; 36.	Visible on range line only.
18176 <i>E 5156.1</i>	--Rear, 500 meters 096°12' from front.	46° 33.3' N 32° 19.5' E	F.G. (neon)		62 19	2 Black daymarks, white stripe; 62.	Visible on range line only.
18177 <i>E 5195</i>	-Silversov Range, front.	46° 47.4' N 31° 52.4' E	Fl.R. period 3s fl. 1.2s, ec. 1.8s		105 32	5 Red framework tower, white rectangular daymark, black stripe; 59.	Visible on range line only.
18177.1 <i>E 5195.1</i>	--Rear, 560 meters 222°30' from front.	46° 47.2' N 31° 52.1' E	Oc.W. period 5s lt. 4s, ec. 1s		217 66	5 Red framework tower, red rectangular daymark, black stripe; 73.	Visible on range line only.
18178 <i>E 5203-1</i>	-Rear, 480 meters 023°24' from front.	46° 55.6' N 32° 01.6' E	F.R.		131 40	10 Red square daymark on red 4-sided framework tower, white stripe; 43.	Visible on range line only.
18179 <i>E 5206</i>	-Pier, E. side.	46° 56.6' N 31° 59.0' E	Fl.G. period 1.5s		36 11	1 Green round metal column; 16.	
18179.1 <i>E 5207</i>	--W. side.	46° 56.5' N 31° 58.8' E	Fl.R. period 1.5s		36 11	1 Red round metal column; 16.	
18179.5 <i>E 5210</i>	Korenikhskiy Range, front.	46° 57.1' N 31° 54.4' E	Q.G.		118 36	4 Red framework tower, black rectangular daymark, white stripe; 36.	Visible on range line only.
18179.6 <i>E 5210.1</i>	-Rear, 197 meters 231°48' from front.	46° 57.1' N 31° 54.3' E	Iso.G. period 4s		141 43	4 Red framework tower, black daymark, white stripe; 43.	Visible on range line only.
TENDEROVSKAYA KOSA:							
18180 <i>E 5244</i>	-N. head.	46° 21.9' N 31° 31.9' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s		89 27	8 Black framework tower; 66.	
18184 <i>E 5247</i>	-Tendrovskiy, S. side.	46° 15.8' N 31° 34.1' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s		36 11	7 Framework tower; 33.	
18188 <i>E 5246</i>	-Tendrovskiy.	46° 19.0' N 31° 30.5' E	Oc.W. period 12s lt. 9s, ec. 3s		95 29	16 White round tower, black bands, black double ball daymark; 102.	Horn: 2 bl. ev. 20.5s.
	-RACON		TD(- - • •) period 30s		25		
18192 <i>E 5242</i>	-Kosa Belyye Kuchugury.	46° 14.8' N 31° 39.8' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s		49 15	5 Framework tower; 39.	
18200 <i>E 5248</i>	-Tendrovskiy-Zheleznyy.	46° 09.9' N 32° 04.3' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s		43 13	9 Mast, black square daymark; 39.	Radar reflector.
18205 <i>E 5250</i>	Zheleznyy Port.	46° 06.7' N 32° 19.1' E	Iso.R. period 6s		69 21	11 Lantern on roof of white building; 39.	Visible 285°-105°.
18210 <i>E 5255</i>	Ostrov Dzharylhach.	46° 00.8' N 33° 03.9' E	Fl.R. period 5s			11	
18220 <i>E 5272</i>	Isaychava.	45° 41.6' N 33° 02.4' E	L.Fl.W. period 5s			11	Radar reflector.
18244 <i>E 5278</i>	Mys Tarkhankut.	45° 21.0' N 32° 29.8' E	Fl.(2)W. period 7.5s fl. 1.5s, ec. 1.5s fl. 1.5s, ec. 3s		117 36	17 White round masonry tower; 108.	Obscured 168°-287°. Horn: 3 bl. ev. 30s.
18245 <i>E 7669</i>	Karkinitzka Zatoka Gasfield Light.	45° 15.0' N 31° 42.8' E	Fl.W. period 5s			5	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
UKRAINE							
18248 E 5280	Popovka.	45° 17.7' N 33° 02.2' E	L.F.I.W. period 6s fl. 2s, ec. 4s	73 22	14	Framework tower, white rectangular daymark, black stripe; 46.	Radar reflector.
18249 E 5279.5	Donuzlev Range, front.	45° 22.2' N 33° 04.0' E	Iso.W. period 2s		13		
18249.1 E 5279.51	-Rear, 1.5 miles 052°30' from front.	45° 23.2' N 33° 05.8' E	Oc.W. period 5s		15		
18250 E 5281	Vitino.	45° 12.1' N 33° 09.2' E	Fl.W. period 4s	69 21	13	Black structure; 53.	
YEVPARATORIYSKIY:							
18252 E 5282	-Mys Yevpatoriyskiy.	45° 08.6' N 33° 15.8' E	Fl.(2)W. period 10s fl. 0.2s, ec. 2.4s fl. 0.2s, ec. 7.2s	174 53	20	White octagonal concrete tower; 170.	Visible 247°30'-123°48'. Reserve light Oc.(2)W. 12s 15M. Radiobeacon.
18255 E 5284	--Mys Karantinnyy.	45° 11.1' N 33° 22.5' E	Iso.R. period 1.6s	75 23	12	Metal framework tower, white rectangular daymark, black stripe; 69.	Visible 280°-020°.
18258 E 5285	Solodunova.	45° 07.6' N 33° 31.3' E	Fl.(2)R. period 12s		15		Visible 150°-310°.
18260 E 5287	Nikolayevka.	44° 58.6' N 33° 36.0' E	Fl.R. period 3s		11		Visible 357°-167°.
18268 E 5288	Mys Lukull.	44° 50.0' N 33° 33.4' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	134 41	16	Red framework tower, white rectangular daymark, black stripe; 52.	
18269 E 5293	Mys Marhopulo.	44° 47.5' N 33° 32.1' E	Fl.R. period 3s		9		Radar reflector.
18270 E 5300	Lyubimovka.	44° 42.3' N 33° 33.0' E	Fl.W. period 5s		18		
18272 E 5302	Sevastopol, S. Range, front.	44° 37.1' N 33° 35.3' E	F.R.	298 91	18	White square stone building; 33.	Forms range 100°54' with Sevastopol N., front.
18273 E 5302.1	-Rear, 1.75 miles 094°30' from front.	44° 37.0' N 33° 37.8' E	F.W.	643 196	24	White square stone building; 33.	
18276 E 5302.5	-N. Range, front.	44° 37.7' N 33° 30.9' E	Oc.R. period 6s		14		Visible 042°-162°.
18278 E 5303.5	-Karantinnyaya Bukhta Range, front.	44° 36.6' N 33° 30.0' E	Oc.G. period 2.3s		6		Other leading lights are shown in this bay.
18279 E 5303.51	--Rear, 100 meters 158°48' from front.	44° 36.6' N 33° 30.0' E	Oc.G. period 2.3s		6		Radar reflector.
18280 E 5304.7	-Fishing Harbor Range, front.	44° 34.4' N 33° 25.7' E	F.R.	135 41	12	White round concrete tower, red stripe.	Visible 128°-188°. Reserve light range 6M.
18281 E 5304.71	--Rear, 275 meters 158° from front.	44° 34.3' N 33° 25.8' E	F.R.	171 52	12	White round concrete tower, red stripe.	Visible 128°-188°.
18285 E 5302.53	-Inner harbor range, front.	44° 37.0' N 33° 35.3' E	Q.Y.		1		On request.
18286 E 5302.535	--Rear, 073°12' from front.	44° 37.0' N 33° 35.4' E	Q.Y.		2		On request.
18316 E 5305.5	Manganari.	44° 35.6' N 33° 25.0' E	Fl.G. period 3s		3		
18320 E 5308	Mys Khersonesskiy.	44° 34.8' N 33° 23.8' E	Mo.(SW)W. period 60s	111 34	16	White round stone tower; 118.	Nautophone: 2 bl. ev. 15s (bl. 3s, si. 2s, bl. 6s, si. 4s).
18324 E 5309	Mys Feilent.	44° 30.0' N 33° 29.0' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	551 168	12	Red metal framework tower; 14.	Visible 282°-148°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
UKRAINE							
18326 E 5310	Kayabashi.	44° 29.4' N 33° 33.3' E	Fl.W. period 4s fl. 1s, ec. 3s	978 298	8	Black framework tower, white rectangular daymark, black stripe; 36.	
18336 E 5314	Mys Sarych.	44° 23.3' N 33° 44.5' E	Iso.W. period 6s	125 38	17	White round metal tower; 35.	Visible 276°-120°. Horn.
18340 E 5316	Mys Aytodor.	44° 25.7' N 34° 07.4' E	Fl.(2)G. period 6s fl. 0.2s, ec. 1.3s fl. 0.2s, ec. 4.3s	285 87	24	White octagonal metal tower; 30.	Visible 232°-071°. Reserve light F.G. 10M. Radiobeacon.
18344 E 5320	Yalta, mole, head.	44° 29.5' N 34° 10.2' E	L.Fl.R. period 7.5s fl. 3s, ec. 4.5s	48 15	13	White stone tower; 39.	Reserve light range 4M.
18345 E 5321	Massandrovskiy Range, front.	44° 29.9' N 34° 12.3' E	FR.	66 20	4	Red metal square skeleton tower, white rectangular daymark; 52.	Visible on range line only.
18345.1 E 5321.1	-Rear, 165 meters 047° from front.	44° 30.2' N 34° 12.5' E	FR.	98 30	4	Red metal square skeleton tower, white rectangular daymark; 46.	Visible on range line only.
18350 E 5323	Artek.	44° 33.5' N 34° 18.2' E	Fl.(3)W. period 7.5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	410 125	13	Metal framework on white round tower, red bands; 30.	Reserve light range 4M.
18356 E 5326	Alushta.	44° 40.1' N 34° 24.9' E	Fl.R. period 4s fl. 1s, ec. 3s	26 8	4	Red metal structure, white bands; 13.	Radar reflector.
18360 E 5328	Rybachiy.	44° 45.3' N 34° 34.8' E	Fl.W. period 7.5s fl. 1.5s, ec. 6s	425 130	18	Round white stone tower; 68.	
18362 E 5328.5	Mys Bashennyi.	44° 48.8' N 34° 45.2' E	Fl.W. period 6s fl. 1.5s, ec. 4.5s	56 17	8	Red round metal column, white top; 20.	
18364 E 5329	Sudakskiy.	44° 50.4' N 34° 58.4' E	Fl.R. period 5s fl. 1.5s, ec. 3.5s	75 23	15	Red square metal tower, white rectangular daymark, black stripe.	Reserve light range 10M.
18368 E 5330	Mys Meganom.	44° 47.8' N 35° 04.8' E	Fl.(3)W. period 14s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 9s	324 99	25	White octagonal masonry tower; 39.	Visible 238°-058°.
18380 E 5341	Mys Kiik-Atlama.	44° 57.0' N 35° 23.0' E	Fl.R. period 5s	525 160	10	Gray concrete column, gray square daymark white band; 20.	
FEODOSIYSKIY ZALIV:							
18384 E 5340	-Mys Il'inskiy.	45° 00.4' N 35° 25.6' E	L.Fl.(2)W. period 15s fl. 3s, ec. 3s fl. 3s, ec. 6s	216 66	21	Round brick tower; 49.	Visible 212°-016°.
18396 E 5353	Hora Dyurmen.	45° 02.6' N 35° 56.9' E	Fl.G. period 3s		12		Occasional.
18404 E 5352	Mys Chauda.	45° 00.1' N 35° 50.1' E	L.Fl.W. period 24s fl. 6s, ec. 18s	121 37	17	White octagonal tower, dwelling; 37.	
18408 E 5358	Mys Kyz-Aul.	45° 03.6' N 36° 22.3' E	Fl.G. period 6s fl. 1.5s, ec. 4.5s		14	White octagonal tower, black stripes; 102.	Visible 253°-070°.
18412 E 5361	Mys Takil.	45° 06.2' N 36° 26.6' E	Fl.W. period 4s fl. 1s, ec. 3s	331 101	15	Black metal framework tower; 36.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
UKRAINE							
KERCHENSKIY PROLIV:							
18436 <i>E 5616</i>	-Mys Zheleznyy Rog (R.).	45° 06.3' N 36° 44.1' E	Iso.W. period 3s	246 75	22	Black rectangular daymarks (2) on square metal framework tower; 52.	Reserve light range 18M.
18440 <i>E 5615</i>	-Mys Panagiya (R.).	45° 08.5' N 36° 38.6' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	236 72	7	Red metal column; 26.	
18448 <i>E 5370</i>	-Nijni Pavlovski Range, front.	45° 18.3' N 36° 27.2' E	F.R.	213 65	15	White octagonal stone tower, red stripe; 56.	Visible on range line only.
18452 <i>E 5370.1</i>	--Verkhni Pavkobski, rear, 640 meters 356°36' from front.	45° 18.6' N 36° 27.1' E	F.R.	344 105	15	Metal framework tower, black square daymark; 49.	Visible on range line only.
18456 <i>E 5373</i>	-Pavlovski Sekushchiye Range, front.	45° 18.5' N 36° 29.0' E	Iso.R. period 4s	45 14	2	Black triangular daymark, point up, on white square daymark, black stripe; 19.	Visible on range line only. Seasonal.
18460 <i>E 5373.1</i>	--Rear, 590 meters 355°30' from front.	45° 18.7' N 36° 29.0' E	F.R.	87 27	2	White rectangular daymark, black stripe; 23.	Visible on range line only. Seasonal.
18476 <i>E 5372</i>	-Bukhta Kamysh-Burunskaya Range, front, W. side entrance.	45° 14.0' N 36° 25.0' E	F.G.	98 30	8	White octagonal stone tower; 53.	Visible on range line only.
18480 <i>E 5372.1</i>	--Rear, 1,481 meters 217°30' from front.	45° 13.8' N 36° 24.2' E	F.G.	157 48	8	White octagonal stone tower; 36.	Visible on range line only.
	-Dir Lt 329°.		F.R.	157 48	10		Visible on range line only.
18492 <i>E 5374</i>	-Kamysh Burunskiy Range, front.	45° 16.4' N 36° 24.3' E	F.R.	105 32	10	White octagonal concrete tower on building; 39.	Visible on range line only.
18496 <i>E 5374.1</i>	--Churubashkiy, rear, 9.3 km. 246°48' from front.	45° 14.8' N 36° 18.0' E	F.W.	410 125	17	Black rectangular daymark, red stripe on metal framework tower; 102.	Visible 240°48'-252°48'. Reserve light F.W.
18499.1 <i>E 5374-4</i>	-Port Kerch range, front.	45° 21.5' N 36° 29.0' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	39 12	5	Metal framework tower, white rectangular daymark, red stripe; 33.	Visible on range line only.
18499.2 <i>E 5374.41</i>	--Middle, 300 meters 331°18' from front.	45° 21.6' N 36° 28.9' E	F.R.	59 18	5	Metal framework tower, white rectangular daymark, red stripe; 53.	Visible on range line only.
18499.3 <i>E 5374.42</i>	--Rear, 1852 meters 331°18' from front.	45° 22.4' N 36° 28.3' E	F.R.	164 50	6	Metal framework tower, white rectangular daymark, red stripe; 99.	Visible on range line only.
18520 <i>E 5375</i>	Kerch-Yenikalskiy.	45° 21.3' N 36° 29.0' E	Fl.R. period 2.5s fl. 0.5s, ec. 2s		2	Red metal column on white concrete base; 14.	
18552 <i>E 5376</i>	-Tamanskiy Range (R.), front.	45° 22.5' N 36° 43.7' E	Fl.W. period 3s fl. 1s, ec. 2s	72 22	15	White rectangular daymark, red stripe on metal framework tower; 69.	Visible 180°30'-187°30'. Reserve light range 11M.
			F.R.		18		Visible on range line only. Visible on range line only. Reserve light range 11M.
18556 <i>E 5376.1</i>	--Rear, 7.0 km. 066°48' from front.	45° 24.1' N 36° 48.5' E	F.W.	197 60	25	Metal framework tower, black rectangular daymark, red stripe; 141.	Visible on range line only. Reserve light F.W. 8M.
18558 <i>E 5378</i>	-Chushkinskiy Range, front.	45° 18.8' N 36° 38.3' E	F.R.	43 13	12	White tower; 59.	Intensified on range line.
18559 <i>E 5378.1</i>	--Rear, 370 meters 194°18' from front.	45° 18.3' N 36° 38.1' E	F.R.	75 23	12	White tower; 79.	Intensified on range line.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
UKRAINE							
18560 <i>E 5422</i>	-Yenikal'skiy.	45° 23.1' N 36° 38.3' E	Fl.(3)W. period 14s fl. 0.3s, ec. 2.6s fl. 0.3s, ec. 2.6s fl. 0.3s, ec. 7.9s	404 123	27	White round stone tower; 88.	Visible 159°30'-039°30'.
18570 <i>E 5423.5</i>	-N. mole, head.	45° 21.7' N 36° 37.8' E	Fl.(2)R. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	26 8	2	Red metal column; 17.	
18570.1 <i>E 5423.6</i>	-S. mole, head.	45° 21.8' N 36° 37.9' E	Fl.(2)G. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	30 9	2	Green metal column; 17.	
AZOVSKOYE MORE (SEA OF AZOV)							
18608 <i>E 5436</i>	Ostrov Biryuchiy.	46° 05.0' N 34° 59.0' E	Fl.(2)W. period 7.5s fl. 1.5s, ec. 1.5s fl. 1.5s, ec. 3s	88 27	15	White octagonal masonry tower; 82.	
18628 <i>E 5448</i>	Novokonstantinovskiy.	46° 34.4' N 35° 42.7' E	Fl.W. period 6s		16	Metal framework tower; 33.	
18632 <i>E 5452</i>	Obitochnaya Kosa.	46° 29.2' N 36° 06.2' E	Fl.W. period 8s fl. 1.5s, ec. 6.5s	43 13	10	Red square daymark; 39.	
18640 <i>E 5454</i>	Nizhniy Berdyanskiy.	46° 38.2' N 36° 45.7' E	Oc.W. period 7.5s lt. 4.5s, ec. 3s	78 24	15	White octagonal tower, red band; 62.	
	RACON		N(- •) period 30s		17		
18648 <i>E 5458</i>	Berdyanski Verkhniy.	46° 46.2' N 36° 45.8' E	Fl.(3)R. period 14s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 9s	236 72	19	White octagonal tower, red bands; 108.	Visible 280°-070°.
18652 <i>E 5460</i>	-Detached breakwater, NW. head.	46° 44.5' N 36° 45.9' E	Fl.G. period 3s	39 12	3	STARBOARD (A) G, beacon, topmark; 36.	Radar reflector.
18656 <i>E 5462</i>	-Detached breakwater, SE. head.	46° 44.3' N 36° 46.3' E	Fl.R. period 3s fl. 1s, ec. 2s	31 9	3	Red metal column; 20.	
18660 <i>E 5464</i>	-Range, front.	46° 44.8' N 36° 46.4' E	2 F.R. (vert.)	95 29	12	Framework structure, white rectangular daymark, black stripe; 95.	Visible on range line only. Auxiliary sector light, range 11M, F.R.(occas.) visible on range line, Fl.R. 2s visible W. of range line, Oc.R. 2s visible E. of range line.
18664 <i>E 5464.1</i>	--Rear, 1.3 km. 040°48' from front.	46° 45.4' N 36° 47.0' E	2 F.R. (vert.)	207 63	12	White diamond over square daymark, black stripe.	Visible on range line only.
TAGANROGSKIY ZALIV:							
18680 <i>E 5472</i>	-Belosarayskiy Zaliv.	46° 52.9' N 37° 19.5' E	Oc.(2)W. period 12s lt. 3s, ec. 1.5s lt. 3s, ec. 4.5s	70 21	14	White octagonal tower; 69.	
	-RACON		B(- • • •) period 30s		17		
18716 <i>E 5492</i>	--S. mole, head.	47° 03.0' N 37° 31.4' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	29 9	4	Red hexagonal tower and dwelling; 29.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
AZOVSKOYE MORE (SEA OF AZOV)							
-Port Mariupol:							
18720 E 5490	--N. mole, head.	47° 03.1' N 37° 31.5' E	Fl.G. period 3s	30 9	5	Green hexagonal tower; 19.	
18724 E 5484	--E. Entrance, 331°36'.	47° 03.8' N 37° 30.8' E	Iso.R. period 2s	66 20	10	Metal framework tower, white round daymark; 62.	Visible on range line only. Visible on range line only with rear unlighted beacon.
-Mariupol:							
18732 E 5478	--W. Entrance Range, front.	47° 03.3' N 37° 30.4' E	2 F.G. (vert.)	89 27	14	Black framework tower, white square daymark.	Visible on range line only. F.G. 14M (vertical strip) between Iso.W. and 2 F.G. (vert.) lights.
			Iso.W. period 2s	62 19	14	White reflector.	
18736 E 5478.1	---Middle, 0.92 mile 012°18' from front.	47° 04.2' N 37° 30.7' E	F.R.	187 57	14	White square tower on white two-story building; 77.	May be obscured within 4M. F.R. 5M (vertical strip) also visible.
			Oc.R. period 4.5s		14		
			F.Fl.R. period 4.5s				
18740 E 5478.2	---Rear, 1.55 miles 012°18' from front.	47° 04.8' N 37° 30.9' E	F.R.	282 86	15	Black metal framework tower; 69.	Visible on range line only.
18744 E 5482	--Elbow of Vostochnyy Mole.	47° 02.9' N 37° 30.3' E	Fl.(2)G. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	39 12	3	Black metal column, round daymark, white reflector; 36.	
18745 E 5483	--Zapadnyy mole, NE. head.	47° 02.9' N 37° 30.2' E	Fl.R. period 3s	26 8	1	Red metal column; 20.	
18746 E 5483.2	---SW. head.	47° 02.7' N 37° 30.0' E	F.R.	20 6	1	Red metal column; 13.	Radar reflector.
18748 E 5500	--Razdelitel'nogo Pirsya.	47° 03.3' N 37° 30.5' E	Fl.R. period 1.5s	30 9	1	Red metal column; 23.	
18749 E 5501	--Khlebnaya Havan.	47° 03.4' N 37° 30.6' E	Fl.R. period 3s		1		
18750 E 5502	--Remontnyy Basseyn, entrance, E. side.	47° 03.7' N 37° 31.1' E	Fl.G. period 3s	30 9	1	Green metal column; 23.	
18751 E 5504	---W. side.	47° 03.7' N 37° 30.9' E	F.R.	26 8	1	Red metal column; 23.	
18752 E 5516	--E. breakwater, elbow.	47° 04.9' N 37° 34.9' E	Fl.(2)G. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	36 11	2	Green round metal column; 26.	Seasonal.
-Port Azovstal:							
18756 E 5510	--Approach Channel Range, front.	47° 05.2' N 37° 35.2' E	F.G.	72 22	8	Framework tower, white rectangular daymark; 72.	Visible on range line only.
18760 E 5510.1	---Middle, 0.84 mile 044° from front.	47° 05.8' N 37° 36.1' E	F.G.	174 53	8	Framework tower, white rectangular daymark; 121.	Visible on range line only.
18764 E 5510.2	---Rear, 1.7 miles 044° from front.	47° 06.4' N 37° 36.9' E	F.G.	217 66	8	Framework tower, white rectangular daymark; 112.	Visible on range line only.
18880 E 5578	Kamyshevatskaya.	46° 24.2' N 37° 55.5' E	Fl.W. period 13s fl. 1s, ec. 12s	95 29	16	White rectangular daymark on white concrete tower, red band; 49.	
18896 E 5586	Akhtarskiy.	46° 06.3' N 38° 10.8' E	Fl.W. period 6s fl. 1.5s, ec. 4.5s	62 19	15	Silver rectangular panel; 39.	Visible 080°-170°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
AZOVSKOYE MORE (SEA OF AZOV)							
18904 E 5594	Achuyev, Reka Sladkoye, entrance, S. side.	45° 41.1' N 37° 38.7' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	54 16	8	Black iron framework tower and hut; 49.	
18928 E 5606	Tyemryuk.	45° 19.8' N 37° 13.9' E	Fl.W.R. period 7.5s fl. 1.5s, ec. 6s	226 69	W. 20 R. 13	White octagonal tower; 46.	W. 105°-134°, R.-170°, W.- 270°.

Section 13

Russia, Georgia, Turkey and Islands of the Eastern Aegean Sea Including Dhodhekanisos

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RUSSIA							
18936 <i>E 5428</i>	Mys Akhilleon.	45° 26.4' N 36° 47.2' E	Iso.R. period 6s	207 63	17	Framework tower, black square daymark; 66.	
18940 <i>E 5616.5</i>	Yantarny.	45° 06.8' N 36° 52.6' E	Fl.W. period 10s	99 30	16	Red square metal framework tower; 20.	Reserve light 9M.
18941 <i>E 5617.2</i>	Kubanskiy.	45° 03.5' N 37° 04.1' E	Fl.W. period 6s	121 37	12	White framework supports, black rectangular daymark; 39.	
18942 <i>E 5617.5</i>	Blagoveshchenskiy.	44° 59.4' N 37° 14.2' E	Fl.W. period 5s		8		Radar reflector.
ANAPA:							
18944 <i>E 5618</i>	-Mys Anapskiy.	44° 53.3' N 37° 17.9' E	L.Fl.(2)R. period 15s fl. 3s, ec. 3s fl. 3s, ec. 6s	141 43	17	White octagonal tower, black bands; 69.	Reserve light Iso.R. 6s 6M.
18964 <i>E 5632</i>	Ostrov Utrish.	44° 45.5' N 37° 22.6' E	Iso.W. period 3s	84 26	15	White tower; 56.	Reserve light range 10M.
18972 <i>E 5632.5</i>	Mys Vtrishenok.	44° 42.4' N 37° 27.4' E	L.Fl.W. period 7s	43 13	12	Framework tower, white rectangular daymark; 39.	
18976 <i>E 5633</i>	Ozereyevskiy, river mouth, E.	44° 40.2' N 37° 38.4' E	Fl.(2)W.R. period 6s	125 38	W. 14 R. 9	White tower; 23.	W. shore-320°, R.-048°, W.-shore.
18978 <i>E 5634</i>	Mole, head.	44° 40.1' N 37° 39.4' E	Fl.(2)R. period 3s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 1.5s		2		
NOVOROSSISYKAYA BUKHTA:							
18980 <i>E 5639</i>	-Kosa Sudzhukskaya, SE. of shoal.	44° 39.8' N 37° 49.5' E	Fl.(2)R. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	38 12	9	White round masonry tower, gray stone base; 43.	Radar reflector.
18984 <i>E 5636</i>	-Mys Doobskiy.	44° 37.6' N 37° 54.6' E	Fl.(3)W. period 16.5s	328 100	21	White octagonal tower; 75.	Visible 325°-152°. Reserve light Oc.W. 7.5s 6M. Nauphone: 3 bl. ev. 20s.
18988 <i>E 5640</i>	-Kabardinskiy Range, front.	44° 38.1' N 37° 55.2' E	Iso.R. period 4s	59 18	7	Quadrangular iron framework structure, white daymark; 29.	
18992 <i>E 5640.1</i>	--Middle, 305 meters 130° from front.	44° 38.1' N 37° 55.2' E	Iso.R. period 4s	125 38	7	Quadrangular iron framework structure, white daymark; 33.	Visible on range line only.
18996 <i>E 5640.2</i>	--Rear, 0.65 km. 130° from front.	44° 38.3' N 37° 55.9' E	Iso.R. period 4s	295 90	7	Quadrangular iron framework structure, white daymark; 30.	
19000 <i>E 5638</i>	-Mys Penay Range, front.	44° 40.4' N 37° 52.6' E	Iso.G. period 3s	108 33	9	Metal framework tower, white quadrangular shield, red stripe; 66.	Visible 305°-128°. Reserve light Iso.G. 3s 4M.
19004 <i>E 5638.1</i>	--Rear, 425 meters 001°54' from front.	44° 41.0' N 37° 52.9' E	Iso.G. period 3s	193 59	9	Metal framework tower, white quadrangular shield, red stripe; 33.	Visible on range line only. Reserve light Iso.G. 3s 7M.
19008 <i>E 5642.8</i>	-Fishing cannery, Pier 1.	44° 41.7' N 37° 47.5' E	F.G.	17 5	1	Gray post; 8.	F.Y. marks pier 140 meters NNE.
19016 <i>E 5643</i>	-Mys Lyubvi.	44° 42.4' N 37° 47.3' E	F.R.	66 20	2	Yellow building; 49.	Visible 244°-296°. F.G. 1M on jetties 0.7 mile SSE.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RUSSIA							
19020 <i>E 5643.5</i>	-Mole, head.	44° 43.3' N 37° 49.3' E	F.G.		36 11	2	White round metal column; 16.
19020.1 <i>E 5643.55</i>	--Elbow.	44° 43.3' N 37° 49.4' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s		39 12	1	White round metal column; 17.
19021 <i>E 5642.3</i>	-Pier, head.	44° 43.4' N 37° 48.6' E	FR.			1	
19022 <i>E 5642.4</i>	-Wharf, SE. corner.	44° 43.4' N 37° 48.8' E	Fl.R. period 3s			1	
19023 <i>E 5642.5</i>	--S. corner.	44° 43.4' N 37° 48.9' E	Fl.G. period 3s			1	
19024 <i>E 5642</i>	-Vostochnyy Mol Range, front.	44° 43.3' N 37° 48.1' E	Iso.G. period 3s		79 24	10	Round concrete tower, red and white bands; 70. Nauphone: 5 bl. ev. 60s (bl. 3s, si. 4s, bl. 8s, si. 4s, bl. 8s, si. 4s, bl. 8s, si. 4s, bl. 2s, si. 15s).
			Iso.G. period 3s		52 16	10	Visible on range line only.
19028 <i>E 5642.1</i>	--Rear, 2.85 km. 334°12' from front.	44° 44.7' N 37° 47.1' E	Oc.G. period 6s lt. 4.5s, ec. 1.5s		243 74	16	White square stone tower, red stripe; 46. Visible 321°42'-346°42'.
19030 <i>E 5642.2</i>	-New Mole, head.	44° 43.1' N 37° 48.3' E	Fl.G. period 3s			2	
19032 <i>E 5644</i>	-W. mole, head.	44° 43.4' N 37° 47.8' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s		39 12	4	Red concrete column; 26.
19034	-Cabotage Mol, NE. corner.	44° 43.3' N 37° 47.1' E	F.G.			1	
19036 <i>E 5653.3</i>	--Spur.	44° 43.3' N 37° 47.1' E	F.G.		23 7	1	White round metal column; 13.
19040 <i>E 5644.7</i>	-Head of pier, N. of E. mole.	44° 43.6' N 37° 48.3' E	Fl.G. period 3s			2	
19044 <i>E 5645</i>	-SRZ Pier, NW. corner.	44° 43.8' N 37° 48.3' E	F.G.		23 7	2	White round metal column; 20.
19048 <i>E 5646</i>	-Importnyy Pir, SE. corner, head.	44° 43.7' N 37° 48.2' E	F.G.		30 9	1	White metal column; 20.
19048.1 <i>E 5646.2</i>	--NW. corner.	44° 43.7' N 37° 48.1' E	F.G.		30 9	1	White round metal column; 20.
19048.5 <i>E 5646.6</i>	-Shirokiy Pier No 2, NE. corner.	44° 43.8' N 37° 47.9' E	F.G.		23 7	2	White round metal column; 13.
19048.6 <i>E 5646.62</i>	--SW. corner.	44° 43.7' N 37° 47.8' E	F.G.		23 7	2	White round metal column; 13.
19049 <i>E 5647</i>	-Pier No. 1, NE. corner.	44° 43.8' N 37° 47.5' E	F.G.		23 7	2	White round metal column; 13.
19051 <i>E 5647.2</i>	--SW. corner.	44° 43.7' N 37° 47.4' E	F.G.		23 7	2	White round metal column; 13.
19051.6	-Pier No. 5, head.	44° 43.6' N 37° 46.9' E	F.G.			2	
19052 <i>E 5652.6</i>	-Cold storage wharf, NE corner.	44° 43.5' N 37° 46.8' E	F.G.		20 6	1	White metal column; 13.
19056 <i>E 5652.62</i>	--SW. corner.	44° 43.4' N 37° 46.7' E	F.G.		20 6	1	White metal column; 13.
19058 <i>E 5653.75</i>	-Pier, N. side.	44° 43.0' N 37° 49.9' E	F.G.		23 7	4	White round metal column; 16.
19058.2 <i>E 5653.8</i>	--NW. side.	44° 43.0' N 37° 50.0' E	FR.		26 8	2	White metal column, red bands; 13.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RUSSIA							
19059 <i>E 5653.7</i>	--SW. elbow.	44° 42.9' N 37° 50.0' E	F.W.	36 11	3	White round metal column; 26.	
19068 <i>E 5654</i>	-Sheskhari Gavan', N. pier.	44° 42.1' N 38° 49.9' E	F.G.	72 22	1	Black rectangular framework tower; 33.	A light is shown at each of N. and S. corners of head of pier and at root.
19072 <i>E 5654.44</i>	--SW. pier, head.	44° 42.0' N 37° 50.0' E	Fl.(2)R. period 6s fl. 1s, ec. 5s	46 14	2	White metal column; 16.	
19075 <i>E 5655.8</i>	Levvy Vkhodnoy.	44° 33.9' N 37° 59.7' E	Fl.(2)R. period 5s fl. 1s, ec. 1s fl. 1s, ec. 2s	36 11	3	Red metal column, white band; 26.	Radar reflector.
GELENDZHIKSHKAYA BUKHTA:							
19076 <i>E 5656</i>	-Gelendzhikskiy Vkhodnoy.	44° 33.1' N 38° 03.0' E	Fl.(2)W. period 15s fl. 0.5s, ec. 3.2s fl. 0.5s, ec. 10.8s	203 62	21	White octagonal concrete tower, red bands; 138.	Visible 321°-220°. Reserve light Fl.W. 3.5s 15M.
19080 <i>E 5660</i>	Mezyb.	44° 30.4' N 38° 07.0' E	Fl.R. period 5s fl. 1s, ec. 4s	62 19	7	Red round metal column, white band; 33.	
19090 <i>E 5664.8</i>	Arkhipo-Osipovka.	44° 21.4' N 38° 31.1' E	Fl.W. period 3s fl. 1s, ec. 2s		15		Visible 292°-098°.
19100 <i>E 5666</i>	Dzhubga.	44° 18.4' N 38° 42.4' E	L.Fl.R. period 6s	98 30	15	Red rectangular daymark, red tower on white building; 39.	Visible 332°-098°. Reserve light Fl.R. 3s 5M.
TUAPSE:							
19108 <i>E 5668</i>	-Mys Kodosh.	44° 05.9' N 39° 02.2' E	Fl.(3)W. period 14.2s fl. 0.4s, ec. 2.5s fl. 0.4s, ec. 2.5s fl. 0.4s, ec. 8s	203 62	21	White octagonal tower, dwelling; 46.	Visible 313°-129°. Reserve light L.Fl.W. 12s 7M.
19110 <i>E 5671</i>	-Prichal.	44° 05.0' N 39° 04.1' E	Iso.R.G. period 6s	46 14	2	26.	R. 249°-006.5°, G.-249°.
19112 <i>E 5670</i>	-Yuzhnyy Mol, head.	44° 05.2' N 39° 04.2' E	Fl.G. period 3s	39 12	2	Green metal framework tower; 20.	
19116 <i>E 5672</i>	-Yugozapadnyy Volnolom, SE. end.	44° 05.2' N 39° 04.0' E	Fl.R. period 3s	36 11	2	Red metal framework tower; 20.	
19120 <i>E 5674</i>	-Novyy Port Entrance Range, front.	44° 05.7' N 39° 04.1' E	F.Bu.G. (vert.)	63 19	3	Metal framework structure, trapezoidal daymark; 56.	Visible on range line only. Auxiliary light Dir. 2Fl.R. (hor.) 3.3s 3M. Reserve light F.Bu. 3M.
			F.G. (vert.)				
19124 <i>E 5674.1</i>	--Rear, about 274 meters 006°30' from front.	44° 05.8' N 39° 04.1' E	F.R. (vert.)	121 37	4	Metal framework structure, white trapezoidal daymark; 36.	Visible on range line only.
			F.Bu. (vert.)		3		
			F.G. (vert.)		3		
19126 <i>E 5682</i>	Ashe.	43° 58.4' N 39° 14.9' E	Fl.W. period 3s fl. 1s, ec. 2s	161 49	10	On building.	Visible 325°-120°.
19128 <i>E 5684</i>	Lazarevskoye.	43° 53.8' N 39° 20.4' E	Fl.W. period 6s fl. 1.5s, ec. 4.5s	315 96	20	Metal framework tower, white rectangular daymark, black stripe; 46.	Visible 323°-130°. Reserve light Fl. 3s 12M. Radar reflector.
19129 <i>E 5684.5</i>	Loo.	43° 41.8' N 39° 35.1' E	L.Fl.G. period 6s fl. 2s, ec. 4s	26 8	3	Orange round metal column; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
RUSSIA							
19130 <i>E 5685</i>	Mys Uche-Dere.	43° 40.0' N 39° 36.7' E	Fl.W. period 2s fl. 0.2s, ec. 1.8s	105 32	9	Red framework tower on hexagonal pedestal.	
19131 <i>E 5685.5</i>	Dagomys.	43° 39.1' N 39° 38.8' E	Fl.R. period 4s	26 8	3	White round metal column, red band; 16.	
SOCHI:							
19132 <i>E 5686</i>	-Sochi Range , front.	43° 34.3' N 39° 43.0' E	Iso.G. period 3s	120 37	20	White stone tower, dwelling; 49.	Visible 296°-161°, partially obscured 149°-161°.
19136 <i>E 5688</i>	--Rear, 540 meters 356°48' from front.	43° 34.8' N 39° 42.6' E	F.G.	89 27	10	Black metal structure, white triangular daymark, black stripe; 55.	Visible 299°-054°. Shown on request.
19140 <i>E 5689</i>	-Severnyy, N. mole, head.	43° 34.2' N 39° 42.7' E	Fl.R. period 2s	66 20	2	Round tower; 52.	
19148 <i>E 5690</i>	-Yuzhnyy, S. mole, head.	43° 34.2' N 39° 42.8' E	Fl.G. period 2s	43 13	2	Green framework tower; 33.	
19152 <i>E 5687.9</i>	-Entrance Range, front, N. mole, root.	43° 35.0' N 39° 43.0' E	F.G.	43 13	10	White rectangular shield, black center stripe; 33.	Storm signals. Shown on request. Visible 332°-022°.
19156 <i>E 5688.1</i>	-W. edge of channel Range, front, N. mole, root.	43° 34.9' N 39° 43.0' E	F.R.	43 13	3	Black metal mast, red triangular daymark, point down; 26.	Lights in line 359°43'.
19160 <i>E 5688.2</i>	-Channel, E. edge.	43° 34.9' N 39° 43.0' E	F.R.	43 13	3	Black metal mast, red triangular daymark, point down; 26.	Lights in line 354°12'.
19162 <i>E 5694</i>	Khosta.	43° 30.6' N 39° 51.7' E	Iso.R. period 2s	26 8	4	White round metal column, red band; 16.	
19163 <i>E 5696</i>	Kurortnyy Gorodok.	43° 28.2' N 39° 53.5' E	Fl.G. period 4s	26 8	3	White round metal column; 16.	
REYD ADLER:							
19164 <i>E 5698</i>	-Mys Adlerskiy.	43° 25.5' N 39° 54.9' E	Fl.(2)Y. period 8s fl. 1s, ec. 2s fl. 1s, ec. 4s		13	White round metal tower, red bands; 39.	Visible 330°-130°. Reserve light range 11M. Radar reflector.
19165 <i>E 5699.5</i>	Imeretinsky Severnyy.	43° 24.9' N 39° 55.5' E	Fl.G. period 1.5s fl. 0.5s, ec. 1s	82 25	5	Red 4-sided metal framework tower, white band; 98.	Visible 295°-140°.
19166 <i>E 5699.53</i>	Imeretinsky Range, E. front, 344.6° from common rear.	43° 24.3' N 39° 56.3' E	Iso.G. period 3s	62 19	5	Green round metal column, white band, reinforced concrete base; 23.	
19166.1 <i>E 5699.51</i>	-Common Rear.	43° 24.6' N 39° 56.1' E	Iso.Y. period 3s	69 21	6	White rectangular panel, red stripe; 49.	Visible 325°-120°.
19166.2 <i>E 5699.52</i>	-W. front, 344.6° from common rear.	43° 24.3' N 39° 56.2' E	Iso.R. period 3s	62 19	5	Red round metal column, white band, reinforced concrete base; 23.	
GEORGIA							
19168 <i>E 5700</i>	Leselidze.	43° 23.1' N 40° 01.3' E	Fl.R. period 4.5s fl. 1.5s, ec. 3s	95 29	10	Lantern on white chimney with ladder and platform; 79.	Visible 285°-094°. Radar reflector.
GAGRINSKIY REYD:							
19172 <i>E 5706</i>	-Gagrinskiy.	43° 19.7' N 40° 12.8' E	Fl.(2)W. period 5s fl. 1s, ec. 1s fl. 1s, ec. 2s	285 87	18	Lantern on roof of building; 69.	Visible 341°-105°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
GEORGIA							
19176 <i>E 5708</i>	-Range, front.	43° 19.5' N 40° 13.6' E	F.R.		3		
19180 <i>E 5708.1</i>	--Rear, 026° from front.	43° 19.5' N 40° 13.6' E	F.R.		3		
19192 <i>E 5718</i>	Mys Pitsunda.	43° 09.0' N 40° 20.3' E	Fl.(2)W. period 10.2s fl. 0.2s, ec. 2.1s fl. 0.2s, ec. 7.7s	118 36	19	White framework tower with central column; 102.	Visible 269°-150°.
19200 <i>E 5721</i>	Bambora.	43° 05.6' N 40° 35.4' E	Fl.W. period 3s fl. 1s, ec. 2s	125 38	16	Lantern on roof of building; 115.	Visible 275°-085°.
19204 <i>E 5724</i>	Gudauty, W. end of village.	43° 05.9' N 40° 38.0' E	Fl.(2)R. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	53 16	6	Framework structure, red hut, white stripe, surmounted by a rectangular shield, white stripe; 13.	Visible 308°-041°.
19206 <i>E 5724.5</i>	Novyy Afon.	43° 05.1' N 40° 49.1' E	Oc.W. period 6s lt. 4s, ec. 2s	108 33	10	On roof of building; 72.	Visible 282°-093°.
19208	Novo Afonskogo, monastery, pier, head.	43° 05.0' N 40° 51.0' E	2 F.W.	35 11			Shown when regular steamships are due.
19209 <i>E 5725</i>	Eshera.	43° 00.9' N 40° 56.2' E	L.Fl.W. period 6s fl. 2s, ec. 4s	108 33	14	On roof of building; 89.	Visible 332°-130°.
SUKHUMI:							
19212 <i>E 5726</i>	-Mys Sukhumskiy.	42° 58.9' N 40° 58.2' E	L.Fl.(2)W. period 15s fl. 3s, ec. 3s fl. 3s, ec. 6s	121 37	17	White round metal tower; 112.	Visible 236°42'-115°42', faintly to 127°.
19214 <i>E 5727</i>	-Middle pier Range, front.	42° 59.8' N 41° 01.4' E	F.G.	46 14	3	White triangular daymark over white pentagon daymark, on roof; 19.	Visible on range line only. Bell.
19214.1 <i>E 5727.1</i>	--Rear, 120 meters 352°48' from front.	42° 59.9' N 41° 01.4' E	F.G.	56 17	3	Mast, white pentagon daymark; 49.	Visible on range line only.
19216 <i>E 5728</i>	-Range, front, SE. extremity of facade of fort, front.	42° 59.9' N 41° 01.2' E	F.R.	43 13	4	Metal post, white stripe on concrete base, rectangular daymark, red cone topmark, point up; 36.	Visible on range line only. Storm signals.
19220 <i>E 5728.1</i>	--Rear, 95 meters 285°36' from front.	42° 59.9' N 41° 01.2' E	F.R.	52 16	4	Metal post, white stripe on concrete base, rectangular daymark, red cone topmark, point down; 33.	Visible on range line only.
19228 <i>E 5734</i>	Mys Kodori.	42° 50.8' N 41° 06.4' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	75 23	13	Black 4-sided framework tower, white rectangular daymark with black median stripe and black border.	Visible 330°-170°. Radar reflector.
19232 <i>E 5736</i>	Akhail Kindgi.	42° 47.2' N 41° 17.6' E	Oc.W. period 12s		12		Visible 325°-090°.
OCHAMCHIRE:							
19234 <i>E 5738</i>	- Point Range, front.	42° 44.7' N 41° 25.4' E	Iso.W. period 3s	36 11	5	White round metal tower, red stripe; 26.	
19234.1 <i>E 5738.1</i>	--Rear, 260 meters 359°24' from front.	42° 44.8' N 41° 25.4' E	Iso.W. period 3s	66 20	5	White round metal tower, red stripe; 49.	
19236 <i>E 5742</i>	-Ochamchire.	42° 40.7' N 41° 28.8' E	Fl.W. period 3s fl. 1s, ec. 2s	65 20	13	White framework tower; 59.	Visible 344°-157°.
19252 <i>E 5744</i>	Gagida.	42° 31.0' N 41° 31.9' E	Fl.W. period 2s	49 15	10	White rectangular framework tower; 39.	Visible 354°-172°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
GEORGIA							
19256 <i>E 5746</i>	Anaklia, Reka Ingur, entrance.	42° 23.6' N 41° 33.8' E	Fl.W.R.G. period 15s	154 47	W. 24 R. 21 G. 21	On dome of building; 150.	Visible 330°-161°.
POTI:							
19277 <i>E 5762</i>	-Entrance Range, front.	42° 09.6' N 41° 38.9' E	F.R.	43 13	5	White square framework tower, white rectangular daymark, red stripe; 42.	Horn: 2 bl. ev. 54s (bl. 6s, si. 12s, bl. 6s, si. 30s).
19277.1 <i>E 5762.1</i>	--Rear, 300 meters 129° from front.	42° 09.5' N 41° 39.1' E	F.R.	66 20		Square framework tower with gallery, white rectangular daymark, red stripe.	
19280 <i>E 5749</i>	-Inner Range, front, S. mole, root.	42° 09.1' N 41° 39.2' E	F.G.	36 11	6	Orange rectangular daymark, black stripe; 49.	Visible 153°54'-163°54'.
19284 <i>E 5749.1</i>	--Potiyskiy, rear, 1.93 km. 158°54' from front.	42° 07.9' N 41° 39.7' E	Al.F.I.W.R. period 7.5s W. fl. 0.2s, ec. 1.6s R. fl. 0.2s, ec. 5.5s	118 36	W. 17 R. 16	White round metal tower, red bands; 121. Floodlit.	Visible 268°-167°, 170°-207°.
19288 <i>E 5760</i>	-Outer breakwater, head.	42° 09.6' N 41° 38.8' E	Fl.W.G. period 3s fl. 0.5s, ec. 2.5s	43 13	W. 7 G. 4	Round silver metallic tower; 26.	W. 012°30'-116°, G.-012°30'.
19296 <i>E 5762.2</i>	-N. breakwater, S. spur, head.	42° 09.2' N 41° 38.7' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	23 7		White square tower; 16.	
19300 <i>E 5763</i>	-Near center of harbor.	42° 09.1' N 41° 38.7' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	23 7		White octagonal tower; 16.	
19304 <i>E 5761</i>	-Elbow of breakwater, entrance, W. side.	42° 08.9' N 41° 38.6' E	Fl.Bu. period 4s fl. 0.5s, ec. 3.5s	23 7	3	White iron framework structure; 16.	Visible 163°12'-003°12'.
19312 <i>E 5763.44</i>	Grigoleti.	42° 02.2' N 41° 44.3' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	39 12	8	Orange quadrangular, white stripe on red tower; 30.	Visible 345°-152°
19313 <i>E 5763.6</i>	<i>Supsa SPM.</i>	42° 01.8' N 41° 42.4' E	Mo.(U)W. period 15s		10		Horn: Mo.(U) ev. 30s.
RACON							
19314 <i>E 5764</i>	Natanebi.	41° 58.1' N 41° 45.8' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	49 15	7	Metal framework structure, white rectangular shield, red stripe; 39.	Visible 357°-166°.
19320 <i>E 5765</i>	Kobuleti.	41° 51.1' N 41° 46.7' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	121 37	15	Lantern on building; 98.	Visible 018°-185°.
BATUMI:							
19324 <i>E 5768</i>	-Bukhta Batumiyskaya, on Mys Burun Tabiya.	41° 39.0' N 41° 38.1' E	Fl.(2)R. period 6s fl. 0.2s, ec. 1.3s fl. 0.2s, ec. 4.3s	65 20	14	White octagonal masonry tower, dwelling; 57.	Visible 065°-310°. Nautophone: 5 bl. ev. 60s.
19328 <i>E 5772</i>	-Petroleum Harbor Range, front.	41° 38.6' N 41° 38.6' E	F.W.R.G.	42 13	11	White round tower, black bands; 36.	W. 020°-149°, G.-176°, R.-260°.
19332 <i>E 5772.1</i>	--Rear, 1,300 meters 172°24' from front.	41° 38.3' N 41° 39.1' E	Fl.R. period 3s	130 40	12	Black truncated pyramid, white wings; 16.	Visible on range line only.
19334 <i>E 5773</i>	-Range, front.	41° 39.0' N 41° 39.0' E	F.Bu.	72 22	4	White metal framework structure, black rectangular daymark, white stripe; 62.	Visible on range line only.
19334.1 <i>E 5773.1</i>	--Rear, 330 meters 166°18' from front.	41° 38.8' N 41° 39.1' E	F.Bu.	85 26	4	White metal framework structure, black rectangular daymark, white stripe; 79.	Visible on range line only.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
GEORGIA							
19335 <i>E 5773.6</i>	-Range, front.	41° 39.2' N 41° 38.6' E	F.R.	75 23	4	White metal framework structure, black double-trapezoidal daymark, white stripe; 66.	Visible on range line only.
19335.1 <i>E 5773.61</i>	--Rear, 260 meters 261°24' from front.	41° 39.1' N 41° 38.5' E	F.R.	105 32	4	White metal framework structure, black triangular daymark, white stripe; 95.	Visible on range line only.
19336 <i>E 5770</i>	-Near root of Mys Burun Tabiya Mole, 210 meters 320° from Bukhta Batumyskaya.	41° 39.4' N 41° 38.4' E	FI.G. period 5s fl. 1.5s, ec. 3.5s	82 25	2	Gray metal framework tower; 39.	Visible 108°-294°.
19338 <i>E 5774</i>	-Coaster Harbor, entrance.	41° 39.1' N 41° 39.7' E	F.R.	26 8	3	Brown metal framework tower; 20.	
19340 <i>E 5776</i>	Chorokh, entrance.	41° 36.7' N 41° 33.5' E	FI.R. period 9s fl. 1.5s, ec. 7.5s	43 13	6	Red framework tower, white quadrangular daymark, black stripe; 33.	Visible 015°-205°.
19344 <i>E 5779</i>	Boundary Range, front.	41° 31.3' N 41° 33.0' E	Q.W.R.G.	112 34	W. 14 R. 12 G. 12	Black metal pylon, orange rectangular daymark, white stripe; 66.	W. 027°-095°, R.-105°, W.-115°, G.-125°, W.-190°. Reserve light range W. 12M, R. 8M, G. 7M.
19348 <i>E 5779.1</i>	--Rear, about 288 meters 110° from front.	41° 31.2' N 41° 33.2' E	Oc.W. period 4s lt. 3s, ec. 1s	197 60	14	White 4-sided metal tower, white daymark, red stripe; 98.	Visible 108°30'-111°30'.
TURKEY-BLACK SEA							
19352 <i>E 5780</i>	Hopa.	41° 22.0' N 41° 20.5' E	FI.(2)W. period 15s fl. 0.4s, ec. 4.6s fl. 0.4s, ec. 9.6s	75 23	19	White round tower, dwelling; 39.	
19357 <i>E 5780.5</i>	-Outer breakwater, head.	41° 25.2' N 41° 25.8' E	FI.G. period 3s	46 14	10	Concrete tower; 30.	
19360 <i>E 5780.6</i>	-Lee, breakwater.	41° 24.9' N 41° 26.1' E	FI.R. period 3s fl. 0.3s, ec. 2.7s	46 14	10	Concrete tower; 30.	
19361 <i>E 5779.5</i>	Arhavi, Fishermans Shelter, main breakwater, head.	41° 21.1' N 41° 17.6' E	FI.G. period 5s fl. 1s, ec. 4s	30 9	7	White concrete tower; 20.	
19361.5 <i>E 5779.51</i>	--Secondary breakwater, head.	41° 21.1' N 41° 17.6' E	FI.R. period 5s fl. 1s, ec. 4s	30 9	7	White concrete tower; 20.	
19362 <i>E 5781.1</i>	Ardesen, breakwater, head.	41° 12.0' N 40° 59.6' E	FI.G. period 5s fl. 1s, ec. 4s	26 8	6	Concrete tower; 20.	
19362.5 <i>E 5781.2</i>	-Inner breakwater, head.	41° 11.8' N 40° 59.5' E	FI.R. period 5s fl. 1s, ec. 4s	26 8	6	Concrete tower; 20.	
19364 <i>E 5781</i>	Pazar.	41° 11.0' N 40° 52.5' E	FI.W. period 5s	52 16	10	White metal framework tripod; 10.	
19365 <i>E 5780.7</i>	-N. breakwater, head.	41° 10.9' N 40° 54.7' E	FI.G. period 3s	39 12	5	Concrete tower; 26.	
19365.5 <i>E 5780.8</i>	-S. breakwater, head.	41° 10.9' N 40° 54.6' E	FI.R. period 3s	39 12	5	Concrete tower; 26.	
RIZE:							
19368 <i>E 5782</i>	-Piryoys Burna.	41° 02.3' N 40° 30.2' E	FI.W. period 5s fl. 0.5s, ec. 4.5s	52 16	18	White concrete tower, metal pylon; 59.	
19380 <i>E 5782.8</i>	Surmene, W. mole.	40° 55.1' N 40° 11.3' E	FI.G.	33 10	4	White metal pylon; 19.	Fishing light.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TURKEY-BLACK SEA							
19384 <i>E 5783</i>	Arakli Burnu.	40° 57.5' N 40° 02.5' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	115 35	8	White metal framework tower; 13.	
19385 <i>E 5782.9</i>	-N. breakwater, head.	40° 56.9' N 40° 03.3' E	Fl.G. period 5s	33 10	5	Metal framework tower; 30.	
19385.5 <i>E 5782.95</i>	-S. breakwater, head.	40° 57.0' N 40° 03.1' E	Fl.R. period 5s	33 10	5	Metal framework tower; 30.	
19388 <i>E 5784</i>	Trabzon.	41° 00.5' N 39° 44.2' E	Fl.(2)W. period 15s fl. 1.5s, ec. 3s fl. 1.5s, ec. 9s	102 31	17	White metal framework structure on tankhouse; 19.	
19392 <i>E 5785</i>	-N. breakwater, head.	41° 00.4' N 39° 45.0' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	52 16	10	White concrete tower; 16.	
19400 <i>E 5785.6</i>	--E.	41° 00.3' N 39° 44.9' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	30 9	10	Framework tower.	
19404 <i>E 5787</i>	Incir Limani, pier, head.	41° 06.4' N 39° 25.4' E	Fl.G. period 3s	36 11	4	Metal tower.	
19408 <i>E 5786</i>	Isikli Burnu.	41° 06.4' N 39° 25.3' E	Fl.W. period 10s	82 25	18	White stone tower, dwelling; 26.	
19412 <i>E 5787.5</i>	Eynesil.	41° 04.8' N 39° 09.8' E	Fl.W. period 10s fl. 1s, ec. 9s	98 30	12	Metal framework tower; 23.	
19416 <i>E 5787.8</i>	Gorele, mole, head.	41° 02.2' N 39° 00.2' E	Fl.G. period 5s			White metal pylon; 19.	Fishing light.
19420 <i>E 5788</i>	Tirebolu.	41° 00.5' N 38° 49.3' E	Fl.R. period 4s fl. 1s, ec. 3s	102 31	18	White framework pylon on concrete base.	
19424 <i>E 5789</i>	Cam Burnu.	40° 58.4' N 38° 38.5' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	54 16	12	Metal framework tower; 20.	
19428 <i>E 5790</i>	Giresun , NW. side of promontory.	40° 55.4' N 38° 23.4' E	Fl.W. period 15s fl. 1.5s, ec. 13.5s	364 111	18	White metal framework tower; 39.	
19432 <i>E 5791</i>	-N. breakwater.	40° 55.4' N 38° 22.7' E	Fl.R. period 5s fl. 1s, ec. 4s	43 13	10	Concrete tower; 19.	
19436 <i>E 5792</i>	-S. breakwater.	40° 55.0' N 38° 22.8' E	Fl.G. period 5s fl. 1s, ec. 4s	30 9	10	White concrete tower; 20.	
19440 <i>E 5789.4</i>	Piraziz Burnu.	40° 57.0' N 38° 09.0' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	98 30	8	White metal framework tower; 33.	
19443 <i>E 5792.9</i>	Ordu, Yeni Iskele, head.	40° 59.8' N 37° 52.8' E	Iso.Y. period 2s		5		
19444 <i>E 5793</i>	Ordu (Piramet).	41° 01.0' N 37° 51.1' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	56 17	10	Masonry tower.	
19445 <i>E 5793.21</i>	-Yalikoy (Efirli), main breakwater.	41° 01.2' N 37° 51.4' E	F.G.	39 12	5	Concrete tower; 26.	
19445.1 <i>E 5793.3</i>	--Secondary breakwater.	41° 01.1' N 37° 51.3' E	F.R.	36 11	5	Concrete tower; 26.	
19446 <i>E 5793.5</i>	Persembe.	41° 04.9' N 37° 46.4' E	F.G.	39 12	3	Concrete tower; 20.	Fishing light.
19447 <i>E 5793.7</i>	--S. breakwater, head.	41° 04.9' N 37° 46.6' E	F.R.	36 11	3	Concrete tower; 26.	

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TURKEY-BLACK SEA							
19448 E 5794	Cam Burnu.	41° 07.0' N 37° 47.3' E	Fl.W. period 10s fl. 1s, ec. 9s	127 39	18	White stone tower on hut; 20.	
19450 E 5794.5	Mersin, breakwater.	41° 07.0' N 37° 45.9' E	F.R.	36 11	3		F.G. 3M shown on opposing breakwater.
19452 E 5795	Yasun Burnu.	41° 08.0' N 37° 41.0' E	Fl.(3)W. period 15s	36 11	8	White framework tower, stone base; 23.	
19453 E 5795.3	Yalikoy Fishermans Shelter, N. breakwater, head.	41° 03.1' N 37° 36.5' E	F.R.	43 13	3	Metal framework tower; 36.	
19453.1 E 5795.35	-S. breakwater, head.	41° 03.1' N 37° 36.5' E	Fl.G. period 5s fl. 1s, ec. 4s	43 13	3	White metal framework tower; 36.	
19454 E 5795.4	Bolaman Fishermans Shelter, N. breakwater, head.	41° 02.2' N 37° 35.2' E	F.R.	43 13	3	Metal framework tower; 26.	
19454.1 E 5795.45	-S. breakwater, head.	41° 02.2' N 37° 35.2' E	F.G.	36 11	3	Metal framework tower; 26.	
19456 E 5796	Fatsa Limani, on Fatsa Banki.	41° 03.7' N 37° 30.7' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	20 6	10	White metal framework tower, concrete base; 16.	
19457 E 5796.2	-Shelter mole, head.	41° 02.7' N 37° 29.8' E	Fl.G. period 5s fl. 1s, ec. 4s	33 10	8	White concrete tower; 16.	
19457.5 E 5796.4	-Secondary mole, head.	41° 02.5' N 37° 29.6' E	Fl.R. period 5s fl. 1s, ec. 4s	30 9	8	White concrete tower; 16.	
19458 E 5797	Unye, breakwater, head.	41° 07.0' N 37° 21.0' E	Fl.G. period 5s fl. 1s, ec. 4s	30 9	6	Black concrete tower; 22.	
19458.5 E 5797.1	-Secondary breakwater, head.	41° 07.0' N 37° 20.7' E	Fl.R. period 5s fl. 1s, ec. 4s	30 9	6	White concrete tower; 22.	
19460 E 5798	Unye, on Tashane Burun.	41° 08.5' N 37° 17.7' E	Fl.(2)W. period 6s fl. 0.6s, ec. 1s fl. 0.6s, ec. 3.8s	62 19	10	Iron framework tripod, concrete hut; 13.	
19464 E 5799	Calti Burnu.	41° 15.6' N 37° 01.2' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	56 17	10	Iron framework tower; 33.	
19468 E 5800	Civa Burnu.	41° 21.9' N 36° 41.1' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	76 23	10	White concrete tower; 59.	
19470 E 5800.5	-E.	41° 21.6' N 36° 42.5' E	2 Fl.Y. period 3s fl. 1s, ec. 2s	43 13	7	Yellow metal column; 39.	Marks pipeline.
19472 E 5801	Azot Sanayi.	41° 15.0' N 36° 27.4' E	Fl.W. period 5s	26 8	3	Mast; 19.	
19473	-W. jetty, N. head.	41° 15.1' N 36° 26.6' E	Fl.(4)Y. period 10s	33 10	5		
19473.1	--S. head.	41° 14.8' N 36° 26.8' E	Fl.(4)G. period 10s	33 10	5		
19473.2	-E. jetty, head.	41° 14.8' N 36° 26.7' E	Fl.(4)R. period 10s	33 10	5		
SAMSUN:							
19476 E 5803	-E. mole, head.	41° 18.5' N 36° 21.1' E	Fl.R. period 5s fl. 1s, ec. 4s	46 14	10	Concrete tower; 39.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TURKEY-BLACK SEA							
19480 <i>E 5802</i>	-N. mole.	41° 18.6' N 36° 21.3' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	49 15	10	Concrete tower; 36.	Horn: Mo.(A) 30s (bl. 0.75s, si. 1s, bl. 2.5s, si. 25.75s).
19484 <i>E 5802.2</i>	--Mole.	41° 18.6' N 36° 21.1' E	F.G.	23 7	2	White concrete tower; 9.	Visible 291°-111°.
19485 <i>E 5802.3</i>	-Fishermans Shelter.	41° 18.6' N 36° 20.6' E	F.G.	30 9	3	Concrete tower; 23.	
19488 <i>E 5803.4</i>	-Jetty, head.	41° 18.3' N 36° 20.5' E	F.R.	20 6	2	White concrete tower; 9.	
19492 <i>E 5805</i>	Incir Burnu.	41° 37.3' N 36° 06.8' E	Fl.(3)W. period 12s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 7.2s	49 15	13	White metal framework tower; 39.	
19496 <i>E 5806</i>	Bafra Burnu.	41° 43.6' N 35° 56.5' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	82 25	20	White iron skeleton tower; 16.	
19500 <i>E 5806.5</i>	Yakakent, E. mole.	41° 38.7' N 35° 30.3' E	F.G.	36 11			
19504 <i>E 5806.6</i>	-W. mole.	41° 38.5' N 35° 30.2' E	F.R.	26 8			
19508 <i>E 5807</i>	Gerze. Kosk Burnu.	41° 48.4' N 35° 12.5' E	Fl.(2)W. period 3s fl. 0.3s, ec. 1s fl. 0.3s, ec. 1.4s	49 15	6	White concrete tower; 20.	
19509 <i>E 5807.1</i>	-E. breakwater, head.	41° 48.0' N 35° 12.3' E	F.G.	36 11	3		
19510 <i>E 5807.2</i>	-W. breakwater, head.	41° 47.9' N 35° 12.1' E	F.R.	33 10	3		
19512 <i>E 5808</i>	Sinop, on Boztepe Burnu.	42° 01.3' N 35° 12.5' E	Fl.(2)W. period 15s fl. 1s, ec. 3s fl. 1s, ec. 10s	351 107	10	White masonry tower; 13.	Siren: 3 bl. ev. 32s.
19516 <i>E 5808.5</i>	-On mole.	42° 01.3' N 35° 08.7' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	23 7	2	Concrete pillar; 16.	
19520 <i>E 5808.4</i>	-Fishing harbor.	42° 01.3' N 35° 09.1' E	Iso.Y. period 2s	26 8	5	Column.	F.R. on tower 480 meters N.
19528 <i>E 5809</i>	Ak-Liman.	42° 03.1' N 35° 02.9' E	Fl.R. period 5s fl. 1s, ec. 4s	66 20	6	White concrete tower; 16.	
19532 <i>E 5810</i>	Ince Burun.	42° 06.0' N 34° 56.8' E	Fl.(4)W. period 20s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 12s	85 26	18	White masonry tower; 39.	
19534 <i>E 5810.5</i>	Cayhoglu harbor, N. breakwater, head.	41° 58.0' N 34° 30.5' E	Fl.G. period 5s fl. 1s, ec. 4s	23 7	7	White concrete tower; 16.	
19534.5 <i>E 5810.6</i>	-S. breakwater, head.	41° 58.0' N 34° 30.4' E	Fl.R. period 5s fl. 1s, ec. 4s	23 7	7	White concrete tower; 16.	
19536 <i>E 5811</i>	Ayancik, on Usta Burun.	41° 58.5' N 34° 29.5' E	Fl.W. period 5s	89 27	8	White iron skeleton tower on pedestal; 23.	
19544 <i>E 5812</i>	Inebolu, on point.	41° 58.8' N 33° 45.8' E	Fl.W. period 10s fl. 1s, ec. 9s	125 38	12	White iron mast, dwelling; 29.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TURKEY-BLACK SEA							
19548 <i>E 5813</i>	-N. breakwater, head.	41° 58.9' N 33° 46.7' E	Fl.G. period 3s fl. 1s, ec. 2s	23 7	8	Concrete tower; 23.	
19552 <i>E 5814</i>	-S. breakwater, head.	41° 58.8' N 33° 46.3' E	Fl.R. period 3s fl. 1s, ec. 2s	23 7	8	White concrete tower; 23.	
19556 <i>E 5816</i>	Kerempe Burnu.	42° 01.2' N 33° 20.2' E	Fl.W. period 20s	269 82	20	Tower, white hut; 26.	Siren: 3 bl. ev. 32s.
19560 <i>E 5816.5</i>	Kopekkayasi Burnu.	41° 54.5' N 32° 59.1' E	Fl.(2)W. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	666 203	10	Concrete tower; 23.	
19564 <i>E 5816.55</i>	-N. breakwater, head.	41° 54.1' N 32° 58.4' E	FR.	30 9	3	Concrete tower.	
19568 <i>E 5816.6</i>	-Sheltered breakwater, head.	41° 54.1' N 32° 59.0' E	Fl.G. period 5s fl. 0.3s, ec. 4.7s	30 9	8	Concrete tower; 30.	
19572 <i>E 5816.7</i>	Kurucasile, on Kapt Suyu.	41° 50.8' N 32° 43.0' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	135 41	8	White tower, concrete base; 26.	
19576 <i>E 5817</i>	Amasra.	41° 45.2' N 32° 23.0' E	Fl.W. period 10s fl. 1s, ec. 9s	252 77	20	White masonry tower, dwelling; 9.	
19580 <i>E 5818</i>	-S. breakwater, head.	41° 44.8' N 32° 23.8' E	Fl.R. period 6s	39 12	10	White metal framework tower; 20.	
19584 <i>E 5817.5</i>	-N. mole, head.	41° 44.9' N 32° 23.9' E	Fl.G. period 6s fl. 0.3s, ec. 5.7s	46 14	10	White round metal tower; 33.	
19585 <i>E 5818.3</i>	Tarlaagzi, N. breakwater, head.	41° 43.5' N 32° 20.3' E	FG.		3		
19585.1 <i>E 5818.31</i>	-S. breakwater, head.	41° 43.4' N 32° 20.3' E	FR.		3		
BARTIN LIMANI:							
19588 <i>E 5818.4</i>	-Demirli Burnu.	41° 41.0' N 32° 13.5' E	Fl.(2)W. period 6s fl. 0.8s, ec. 0.8s fl. 0.8s, ec. 3.6s	230 70	10	White concrete tower on concrete base; 33.	
19591 <i>E 5818.51</i>	-Kapakli Burnu, N. breakwater.	41° 41.3' N 32° 14.0' E	Dir.Fl.W. period 3s fl. 1s, ec. 2s	33 10	10	White metal pylon; 26.	Visible 068°-073°.
19592 <i>E 5818.5</i>	-N. breakwater, head.	41° 41.3' N 32° 13.4' E	Fl.(2)R. period 5s fl. 0.3s, ec. 1s fl. 0.3s, ec. 3.4s	33 10	10	White concrete tower on concrete base; 23.	
19596 <i>E 5818.6</i>	-S. breakwater, head.	41° 41.2' N 32° 13.6' E	Fl.(3)G. period 10s fl. 0.6s, ec. 0.6s fl. 0.6s, ec. 0.6s fl. 0.6s, ec. 7s	33 10	8	White concrete tower on concrete base; 26.	
19598 <i>E 5818.62</i>	--W. head.	41° 41.1' N 32° 13.5' E	Q.G.	36 11	8	White painted framework tower; 26.	
19604 <i>E 5819</i>	Hisaronu, pier, head.	41° 33.7' N 32° 01.0' E	FR.	26 8	4	White iron post; 19.	
19606 <i>E 5819.4</i>	Mancar Agzi.	41° 31.4' N 31° 53.7' E	Fl.R. period 3s		3		Fl.G. marks pier close SE.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TURKEY-BLACK SEA							
ZONGULDAK LIMANI:							
19608 E 5820	-Zonguldak Burun.	41° 27.9' N 31° 47.4' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	173 53	20	White masonry tower, dwelling; 29.	
19612 E 5823	-Range, front.	41° 27.6' N 31° 47.3' E	F.Bu.		1	Platform; 46.	
19616 E 5823.1	--Rear, 25 meters 080°15' from front.	41° 27.6' N 31° 47.3' E	F.Bu.		1	Column; 125.	
19620 E 5822	-W. breakwater, head.	41° 27.6' N 31° 46.9' E	Fl.G. period 5s fl. 1s, ec. 4s	52 16	10	Metal framework tower on white concrete base; 33.	
19624 E 5821	-N. breakwater, head.	41° 27.6' N 31° 46.8' E	Fl.R. period 5s fl. 1s, ec. 4s	62 19	10	Metal framework tower on white concrete base; 39.	
19625	-Kozlu, outer breakwater, head.	41° 26.4' N 31° 44.7' E	Fl.R.	36 11	5		
19625.1	--Inner breakwater, head.	41° 26.4' N 31° 44.8' E	Fl.G.	33 10	5		
19632 E 5826	Oluce Burnu.	41° 18.8' N 31° 24.0' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	256 78	15	White tower and dwelling; 29.	
EREGLI LIMANI:							
19640 E 5827	-Old Port, W. breakwater, head.	41° 17.0' N 31° 24.1' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	30 9	8	White concrete tower; 16.	Siren: 1 bl. ev. 10s.
19644 E 5827.2	--E. breakwater, W. head.	41° 17.0' N 31° 24.6' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	16 5	5	White concrete tower; 13.	
19648 E 5827.4	---E. head.	41° 16.9' N 31° 24.8' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	16 5	8	White concrete tower; 13.	
19652 E 5828	-New port (Uzun Kum), outer breakwater, head.	41° 16.3' N 31° 24.8' E	Fl.(2)G. period 5s fl. 0.3s, ec. 1s fl. 0.3s, ec. 3.4s	36 11	7	Concrete tower on hexagonal building; 20.	Radar reflector.
19656 E 5828.2	--Inner breakwater, head.	41° 16.1' N 31° 25.1' E	Fl.(2)R. period 5s fl. 0.3s, ec. 1s fl. 0.3s, ec. 3.4s	23 7	3	Concrete tower on hexagonal building; 9.	
19658 E 5829.3	Akckoca. Kale.	41° 05.2' N 31° 05.8' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	49 15	10		
19658.5 E 5829	-Breakwater, head.	41° 05.5' N 31° 07.2' E	Fl.R. period 5s	43 13	10	Concrete tower; 30.	
FG.							
19660 E 5829.5	Sakarya, W. side of river entrance.	41° 07.7' N 30° 39.2' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	30 9	6	Iron tripod, concrete base; 26.	
19664 E 5830	Kefken Adasi, near W. extremity.	41° 13.0' N 30° 15.5' E	Fl.W. period 10s fl. 1.5s, ec. 8.5s	79 24	14	On observation tower; 33.	Horn (2): 2 bl. ev. 20s (bl. 3s, si. 3s, bl. 3s, si. 11s).
RACON							
K(- • -)							
19666 E 5830.7	Asagi Kovanagzi, breakwater, head.	41° 10.7' N 30° 13.7' E	Fl.G. period 5s fl. 1s, ec. 4s	20 6	5	White concrete tower; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TURKEY-BLACK SEA							
19668 <i>E 5830.4</i>	-W. mole, head.	41° 12.8' N 30° 15.4' E	Fl.R. period 5s fl. 1s, ec. 4s	26 8	5	Concrete tower; 9.	Visible 125°-177°.
19672 <i>E 5830.2</i>	-E. mole, head.	41° 12.8' N 30° 15.7' E	Fl.G. period 5s fl. 1s, ec. 4s	26 8	5	Concrete tower; 16.	
19676 <i>E 5831</i>	Agva.	41° 08.5' N 29° 51.5' E	Fl.W. period 5s	56 17	7	Concrete tower; 13.	
19677 <i>E 5831.4</i>	-Shelter, N. breakwater, head.	41° 08.4' N 29° 51.3' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	23 7	5	Concrete tower; 16.	
19678 <i>E 5831.42</i>	--S. breakwater, head.	41° 08.0' N 29° 51.0' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	23 7	5	Concrete tower; 16.	
19680 <i>E 5832</i>	Sile Burnu.	41° 10.8' N 29° 37.0' E	Fl.W. period 15s fl. 1.5s, ec. 13.5s	197 60	21	White stone tower, black bands; 62.	
19684 <i>E 5832.4</i>	Sile Limani, N. mole, head.	41° 10.8' N 29° 36.0' E	Fl.R. period 3s fl. 1s, ec. 2s	43 13	8	White metal column; 20.	
19688 <i>E 5833</i>	Anadolu Karaburun.	41° 12.9' N 29° 23.4' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	141 43	10	White tripod on round concrete tower; 26.	AIS (MMSI No 992711037).
19692 <i>E 5834</i>	Esek Adasi.	41° 14.1' N 29° 13.6' E	Fl.W. period 5s fl. 1s, ec. 4s	98 30	10	White metal framework tower; 26.	AIS (MMSI No 992711006).
TURKEY-GREECE							
19696 <i>E 4588</i>	Baba Burnu (T).	39° 28.8' N 26° 03.9' E	Fl.(4)W. period 20s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 12s	105 32	18	White metal framework tower; 33.	
	RACON		K(- • -)				
19697 <i>E 4589</i>	-Outer breakwater, head.	39° 28.4' N 26° 04.0' E	Fl.R. period 4s	39 12	5		
19697.5 <i>E 4589.5</i>	-Inner breakwater, head.	39° 28.6' N 26° 04.0' E	Fl.G. period 4s	39 12	5		
19700 <i>E 4590</i>	Sivrice Burnu (T).	39° 28.1' N 26° 14.6' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	52 16	15	White masonry tower and dwelling; 39.	
19702 <i>E 4590.2</i>	Kucukkuyu, W. breakwater.	39° 32.7' N 26° 36.3' E	Fl.R.	43 13	3	Concrete tower; 33.	
19703 <i>E 4590.4</i>	Altinoluk, breakwater.	39° 33.9' N 26° 44.6' E	Fl.R.	33 10	3	Concrete tower; 23.	
19704 <i>E 4591</i>	Edremit Korfezi (T), Kara Burnu.	39° 33.5' N 26° 50.1' E	Fl.(3)W. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	46 14	12	White concrete tower; 43.	
	RACON		N(- •)				
19705 <i>E 4591.2</i>	-Akeay.	39° 34.9' N 26° 55.3' E	Fl.(4)Y. period 10s	26 8	5	Yellow round tower; 20.	
19706 <i>E 4591.5</i>	-Burhaniye Oren, W. breakwater, head.	39° 29.2' N 26° 55.6' E	Fl.G. period 3s				

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TURKEY-GREECE							
19708 <i>E 4592</i>	-Boz Burun.	39° 26.3' N 26° 48.8' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	115 35	10	White metal framework tower; 33.	
NISOS LESVOS (GR.):							
19712 <i>E 4603</i>	-Plomarian, E. breakwater, head.	38° 58.5' N 26° 22.2' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal framework column with gallery, green band; 20.	
19716 <i>E 4602</i>	--W. breakwater, head.	38° 58.4' N 26° 22.2' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework column with gallery, red band; 18.	
19720 <i>E 4599</i>	-Nisos Garbia, N. end of island.	39° 04.7' N 26° 04.7' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	76 23	6	Metal column on round hut; 20.	Visible 355°-330°, obscured elsewhere.
19724 <i>E 4600</i>	-Kolpos Kallonis, Skala Polikhniton.	39° 06.1' N 26° 10.1' E	Fr.R.	23 7	3	White metal coulumn, red band; 20.	
19725 <i>E 4600.4</i>	--S. mole, head.	39° 06.1' N 26° 10.1' E	F.G.	23 7	3	White metal column, green band; 20.	
19732 <i>E 4598</i>	-Nisis Sigri.	39° 12.8' N 25° 49.9' E	Fl.(2)W. period 15s fl. 0.1s, ec. 4.9s fl. 0.1s, ec. 9.9s	174 53	21	Round tower, dwelling; 43.	
19736 <i>E 4598.2</i>	-Akra Saratsina.	39° 11.4' N 25° 49.9' E	Fl.W.R. period 3s fl. 0.3s, ec. 2.7s	75 23	W. 5 R. 3	Metal framework; 16.	W. 000°-122°, R.-160°, W.- 219°, R.-270°, obsc.- 000°.
19740 <i>E 4595</i>	-Akra Molivos.	39° 22.8' N 26° 11.2' E	L.Fl.W.G. period 10s fl. 2.5s, ec. 7.5s	89 27	W. 12 G. 8	White round hut; 16.	W. 068°-219°, G.-239°, W.- 263°, obscured elsewhere.
19744 <i>E 4596.1</i>	-Mithimna Molivos, bay, head.	39° 22.1' N 26° 10.3' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework with gallery, red band.	
19748 <i>E 4597</i>	--Nisis Gavadhes.	39° 18.1' N 26° 01.4' E	Fl.W. period 2s fl. 0.2s, ec. 1.8s	49 15	4	White metal framework; 26.	
19752 <i>E 4594</i>	-Akra Korakas.	39° 23.3' N 26° 20.5' E	Fl.W.R. period 5s fl. 1s, ec. 4s	46 14	W. 11 R. 8	Round hut; 16.	W. 087°-104°, R.-119°, W.- 299°, obsc.-087°.
19754 <i>E 4609</i>	-Nisis Panagia.	39° 18.9' N 26° 26.8' E	Fl.W. period 10s fl. 0.5s, ec. 9.5s	72 22	7	White metal framework tower; 7.	
19756 <i>E 4607</i>	-Mitilini, Limin Alri Kastro, promontory.	39° 06.7' N 26° 34.0' E	Fl.(3)W. period 14s fl. 0.4s, ec. 1.6s fl. 0.4s, ec. 1.6s fl. 0.4s, ec. 9.6s	69 21	6	Metal framework on dwelling; 20.	Visible 122°-027°.
19760 <i>E 4607.6</i>	--Breakwater, head.	39° 05.9' N 26° 33.8' E	Fl.G. period 3s fl. 1s, ec. 2s	46 14	7	Concrete hexagonal hut, green bands.	
19761 <i>E 4607.8</i>	--Breakwater, NE. head.	39° 05.9' N 26° 33.7' E	Fl.R. period 3s fl. 0.4s, ec. 2.6s	36 11	5	Metal framework, gallery, metal column, red band; 25.	
19762 <i>E 4607.9</i>	---SW. head.	39° 05.8' N 26° 33.6' E	Q.G.	36 11	4	Metal framework, gallery, metal column, green band; 26.	
19764 <i>E 4608.4</i>	--N. side entrance to S. port.	39° 06.3' N 26° 33.6' E	Fl.G. period 1.5s fl. 0.2s, ec. 1.3s	29 9	3	White hexagonal hut with column and gallery, green band; 23.	
19768 <i>E 4608</i>	--Notio Limin, side entrance.	39° 06.3' N 26° 33.6' E	Fl.R. period 1.5s	29 9	3	White hexagonal hut with column, red band; 20.	
19770 <i>E 4607.7</i>	--S. mole, head.	39° 05.8' N 26° 33.5' E	Q.R.	16 5	4	Metal framework, gallery, metal column, red band.	

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TURKEY-GREECE							
19772 E 4605	-Akra Malea (Aghrilios).	39° 00.5' N 26° 36.7' E	Fl.(2)W. period 12s fl. 1s, ec. 2s fl. 1s, ec. 8s	170 52	9	White pyramid with gallery; 13.	Visible 210°-102°, obscured by shore W. of 060° at distance greater than 8.3 km.
19776 E 4606	-Perama, pier, head.	39° 02.5' N 26° 30.3' E	2 F.R. (vert.)	16 5	2	White metal column; 23.	1 meter apart.
MITILINI STRAIT (T):							
19780 E 4610	-Gunes Adasi, N. end of strait.	39° 19.7' N 26° 32.5' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	216 66	8	White concrete tower; 16.	
19784 E 4611	-Yumurta Adasi.	39° 19.2' N 26° 31.6' E	Iso.R. period 2s	62 19	5	White metal framework tower; 13.	
19788 E 4612	-Ciplakada. Fener Burna.	39° 17.2' N 26° 36.2' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	59 18	8	White metal tower; 13.	
19792 E 4613	-Ayvalik, on Korkut Burnu.	39° 19.0' N 26° 37.8' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	59 18	7	White metal framework tower; 30.	
19796 E 4614	-Ayvalik Limani, Dalyan Bogazi, Alibey Adazi, off S. point.	39° 19.4' N 26° 38.1' E	V.Q.(6)+L.Fl.W. period 15s	16 5	7	S. CARDINAL YB, beacon, topmark.	Maintained by local authorities. Channel into Aybalik marked by 3 Fl.R. lights on N. side and 3 Fl.G. on S. side.
19798 E 4615.3	-Dolap Adasi.	39° 20.8' N 26° 40.8' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	16 5	8	Iron tower; 10.	
19799 E 4615.22	-Alibey Adasi.	39° 19.8' N 26° 39.4' E	F.R.	33 10	3	Concrete tower; 23.	
19799.3 E 4615.24	-Yat Limani.	39° 19.0' N 26° 41.3' E	Fl.G. period 5s	33 10	5	Concrete tower; 23.	
19799.5 E 4615.26	--Tower.	39° 18.9' N 26° 41.3' E	Fl.R. period 5s	33 10	5	Concrete tower; 23.	
19799.6 E 4615.35	-Kurbaga Burnu, breakwater, head.	39° 13.6' N 26° 43.2' E	Fl.W. period 5s	10 3	3		
19800 E 4615.4	-Madra Cayi.	39° 10.4' N 26° 46.0' E	Fl.(4)W. period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 8.5s	36 11	10	White metal framework tower; 33.	
19804 E 4615.5	Dikili, breakwater, SW arm.	39° 04.2' N 26° 53.2' E	F.R.	30 9	4	White metal mast; 16.	F.R. marks NW arm.
19804.5 E 4615.51	-Jetty, head.	39° 04.3' N 26° 53.1' E	Fl.Y. period 4s fl. 1s, ec. 3s	33 10	3	Yellow X on yellow post, white band; 26.	
19808 E 4615.6	Adatepe Burnu.	39° 01.2' N 26° 48.2' E	Fl.W.R. period 5s fl. 1s, ec. 4s	102 31	W. 7 R. 4	White metal framework; 23.	W. shore-102°, R.-120°, W.-140°, R.-156°, W.-175°, obsc.-shore.
19810 E 4604	Nisis Profilaki.	38° 58.4' N 26° 32.5' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	89 27	6	White round hut; 13.	Visible 200°-075°.
CANDARLI KORFEZI (T):							
19812 E 4616.2	-Pirasa Adasi, summit.	38° 51.9' N 26° 53.6' E	Fl.W. period 5s	144 44	12	White metal framework tower; 20.	

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TURKEY-GREECE							
19816 <i>E 4616</i>	-Tavson Adasi.	38° 51.1' N 26° 53.2' E	Fl.(3)W. period 10s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	200 61	15	White metal framework tower; 20.	
19822 <i>E 4616.3</i>	-Ilica Burnu.	38° 49.5' N 26° 53.7' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	164 50	9	White metal framework tower; 26.	
19822.1 <i>E 4616.35</i>	--E. jetty, head.	38° 49.7' N 26° 55.1' E	Fl.Y. period 4s		3		
19824 <i>E 4616.4</i>	-Aliaga Limani, W. entrance point, Tasli Burnu.	38° 50.2' N 26° 56.7' E	Q.G.	36 11	10	White metal framework tower; 20.	
19824.1 <i>E 4616.6</i>	--E. entrance point, Tuzla Burnu.	38° 49.9' N 26° 58.0' E	Q.R.	26 8	8	Round white metal tower; 20.	
19825 <i>E 4616.9</i>	-Nemrut Bay, Habas, jetty, head.	38° 45.9' N 26° 54.8' E	Fl.R.				
19826 <i>E 4616.95</i>	--Baticim, jetty, head.	38° 45.7' N 26° 55.3' E	Fr.				
19827 <i>E 4617</i>	--W. pier, head.	38° 45.6' N 26° 55.8' E	Fr.	26 8	3	Mast.	
19830 <i>E 4617.6</i>	-Breakwater, W. head.	38° 46.5' N 26° 55.8' E	Fr.	23 7	2	Metal framework tower; 20.	
19832 <i>E 4617.5</i>	-Petkim Refinery, breakwater, head.	38° 46.7' N 26° 55.5' E	Fr.	23 7	2	Metal framework tower; 20.	
IZMIR KORFEZI (T.):							
19836 <i>E 4621</i>	-Eski Saip, on Buyukada.	38° 39.9' N 26° 31.2' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	82 25	10	Metal framework tower, concrete base; 33.	
19837 <i>E 4621.2</i>	-Mordogan, W. breakwater, head.	38° 31.1' N 26° 37.7' E	Fl.G. period 5s fl. 1s, ec. 4s	26 8	5	White metal framework tower; 20.	
19837.1 <i>E 4621.3</i>	--E. breakwater, head.	38° 31.1' N 26° 37.7' E	Fl.R. period 5s fl. 1s, ec. 4s	26 8	5	White metal framework tower; 20.	
19837.2 <i>E 4621.4</i>	-Fisherman's Harbor, W. breakwater, head.	38° 30.8' N 26° 38.0' E	Fr.	33 10	3	White reinforced concrete tower; 23.	
19837.3 <i>E 4621.45</i>	--E. breakwater, head.	38° 30.7' N 26° 38.1' E	F.G.	33 10	3	White reinforced concrete tower; 26.	
19838 <i>E 4617.9</i>	-Aslan Burnu.	38° 44.4' N 26° 44.4' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	131 40	10	White metal tower; 26.	
19840 <i>E 4618</i>	-Foca, Oglak Adasi.	38° 40.6' N 26° 42.7' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	82 25	12	White iron framework tower on pedestal; 20.	
19844 <i>E 4620</i>	--Degirmen Burnu.	38° 40.0' N 26° 44.7' E	Fl.W. period 5s fl. 1s, ec. 4s	56 17	8	White metal tower; 36.	
19848 <i>E 4621.6</i>	-Leventli Limani.	38° 38.2' N 26° 45.2' E	Fr.	26 8	2	Red iron round on pedestal.	
19852 <i>E 4621.62</i>	--Tower.	38° 38.0' N 26° 45.6' E	F.G.	26 8	2	Red tower on pedestal.	
19856 <i>E 4621.5</i>	-Azaplar Kayalari.	38° 37.1' N 26° 44.6' E	Fl.R. period 3s	33 10	12	White metal tower; 23.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TURKEY-GREECE							
19860 E 4623	-Cigli Airfield.	38° 31.1' N 27° 00.4' E	Al.FI.W.G. period 10s	161 49	10	Control tower; 85.	<i>Visibility reported 17M.</i>
19864 E 4622	-Uzun Ada, NE. point.	38° 32.5' N 26° 42.7' E	Fl.(3)W. period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9.5s	164 50	12	White metal framework tower; 20.	A Q.R. light is shown from radio masts, 2.8 km. 150° and 7.4 km. 168° respectively.
19866 E 4622.1	Nergis Island.	38° 38.5' N 26° 41.8' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	39 12	10	White metal framework tower; 16.	
19867 E 4622.8	-Camalti, pier, head.	38° 25.6' N 26° 56.8' E	F.R.	20 6		Metal mast; 13.	
19868 E 4622.3	Kortas Island.	38° 25.2' N 26° 47.7' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	23 7	10	White metal framework pylon; 16.	
19870 E 4622.4	-Urla.	38° 21.9' N 26° 46.4' E	F.G.	23 7	3	White metal framework tower; 16.	
19871 E 4622.7	-Guzelbahce.	38° 22.7' N 26° 53.1' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	46 14	18	White metal framework tower; 33.	
19873 E 4625	-Goztepe, marina, W. wall.	38° 24.4' N 27° 04.1' E	Fl.(2)G. period 5s fl. 0.2s, ec. 0.8s fl. 0.2s, ec. 3.8s	30 9	3	White steel tower; 23.	
19873.1 E 4625.1	--E. wall.	38° 24.4' N 27° 04.2' E	Fl.(2)R. period 5s fl. 0.2s, ec. 0.8s fl. 0.2s, ec. 3.8s	26 8	3	White steel tower; 23.	
19874 E 4625.4	--E. pier.	38° 24.4' N 27° 04.2' E	Fl.(2)G. period 5s	33 10	5		
19874.1 E 4625.6	--SE. pier.	38° 24.3' N 27° 04.3' E	Fl.(2)R. period 5s	43 13	5		
19875 E 4627.3	-Konak, pier, head.	38° 25.1' N 27° 07.5' E	Fl.(2)Y. period 5s	39 12	5		
19876 E 4626	-Izmir, breakwater, N. head.	38° 25.8' N 27° 07.8' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	23 7	10	White concrete tower; 20.	
19880 E 4627	---S. head.	38° 25.3' N 27° 07.5' E	Fl.(2)R. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	23 7	10	White concrete tower; 20.	
19884 E 4628	--Pier, head.	38° 25.8' N 27° 07.9' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	23 7	5	White concrete tower; 20.	
19884.1 E 4628.55	-Daragac Burnu, S. pier, head.	38° 26.3' N 27° 08.4' E	Fl.(2)Y. period 5s	23 7	5		
19885 E 4628.6	-Alsancak Limani.	38° 26.8' N 27° 08.9' E	Fl.(2+1)G. period 12s	30 9	5	White cylindrical tower.	
19885.1 E 4628.65	-Umrubey, W. head.	38° 26.8' N 27° 09.3' E	Fl.(2+1)R. period 12s	30 9	5	White cylindrical tower.	
19885.2 E 4628.68	--E. head.	38° 26.7' N 27° 09.6' E	Fl.G. period 4s	30 9	5	White cylindrical tower.	
19892 E 4628.7	-Turan, pier, head.	38° 27.8' N 27° 09.0' E	F.R.		2		
19893 E 4628.58	-Karsiyaka, Donanmaci, pier, head.	38° 27.3' N 27° 07.2' E	Fl.(2)Y. period 5s	33 10	5		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TURKEY-GREECE							
19894 <i>E 4628.575</i>	--Aksoy, NE. pier, head.	38° 27.1' N 27° 05.9' E	Fl.(2)G. period 5s	33 10	5		
19894.1 <i>E 4628.57</i>	--E. pier, head.	38° 27.1' N 27° 05.9' E	Fl.(2)R. period 5s	69 21	5		
19896 <i>E 4630</i>	Kara Burnu.	38° 39.5' N 26° 21.7' E	Fl.(4)W. period 20s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 12s	318 97	12	White concrete tower, dwelling; 43.	Visible 045°-225°.
	RACON		N(- •)		20		
NISOS PSARA (GR.):							
19900 <i>E 4632</i>	-Akra Ayios Yeoryiou.	38° 32.1' N 25° 36.6' E	Fl.W. period 10s fl. 0.3s, ec. 9.7s	255 78	18	Round tower and dwelling; 46.	
19904 <i>E 4634</i>	-Ormar Psaron, E. mole, head.	38° 32.4' N 25° 34.1' E	Fl.R. period 1.5s fl. 0.2s, ec. 1.3s	23 7	3	White hexagonal hut with tower, red band; 23.	Visible 025°-352°.
19905 <i>E 4634.5</i>	-Limena Psaron, inner mole, head.	38° 32.4' N 25° 33.9' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework, gallery and metal column, red band.	
NISOS KHIOS (GR.):							
19908 <i>E 4638</i>	-Nisis Gevtis.	38° 36.4' N 26° 01.6' E	Fl.(3)W. period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	108 33	11	White lantern house; 13.	Visible 087°-293°.
19911 <i>E 4650.2</i>	-Ormos Volissos, outer mole, head.	38° 28.0' N 25° 55.1' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal column with gallery on metal framework, red band; 20.	
19911.5 <i>E 4650.1</i>	--Inner mole, head.	38° 28.1' N 25° 55.1' E	Fl.R. period 1.5s fl. 0.2s, ec. 1.3s	23 7	3	Metal column with gallery on metal framework, red band; 20.	
19912 <i>E 4650</i>	--E. mole, head.	38° 28.1' N 25° 55.2' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal column with gallery on metal framework, green band.	
19916 <i>E 4649</i>	-Mesta, on Akra Oura.	38° 18.0' N 25° 55.0' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	43 13	7	Metal framework on square hut; 16.	
19918 <i>E 4649.4</i>	--Inner harbor, starboard hand.	38° 17.8' N 25° 55.6' E	Q.G.	33 10	2	Square metal hut, green band.	Visible 212°-032°.
19918.1 <i>E 4649.6</i>	---Port hand.	38° 17.7' N 25° 55.7' E	Q.R.	33 10	3	White 6-sided hut with column and gallery, red band; 26.	Visible 357°-193°.
19924 <i>E 4648</i>	Nisis Venetiko (Gr.), Nisos Khios, S. coast.	38° 07.6' N 26° 00.8' E	Fl.(2)W. period 15s fl. 1s, ec. 2s fl. 1s, ec. 11s	256 78	12	White round hut.	Obscured by the high ground of Nisos Khios 132°-217°.
19928 <i>E 4647.86</i>	-Vokarias. S. mole, head.	38° 14.5' N 26° 06.4' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework, gallery on metal column, green band.	
19930 <i>E 4647.8</i>	-Kataraktis. S. mole, head.	38° 15.9' N 26° 06.0' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	30 9	3	Metal framework, gallery on metal column, red band.	
19932 <i>E 4647.71</i>	--S. mole, head.	38° 18.1' N 26° 09.0' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	30 9	3	Metal framework, gallery on metal column, red band.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TURKEY-GREECE							
19932.1 <i>E 4647.7</i>	-Ayia Ermioni, N. mole, head.	38° 18.0' N 26° 09.0' E	FI.G. period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal framework, gallery on metal column, green band.	
19934 <i>E 4647.5</i>	-Akra Ayia Eleni, mole, head.	38° 19.9' N 26° 09.6' E	FI.R. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework, gallery and metal column, red band.	
19938 <i>E 4643.5</i>	--N. breakwater, head.	38° 22.2' N 26° 08.7' E	FI.G. period 3s fl. 1s, ec. 2s	33 10	12	White hexagonal hut, gallery, green band; 23.	
19938.1 <i>E 4646</i>	--S. breakwater, head.	38° 22.1' N 26° 08.5' E	FI.R. period 3s fl. 1s, ec. 2s	33 10	12	White hexagonal hut, gallery, red band; 26.	
19942 <i>E 4643.25</i>	-Khios Marina. E. mole, head (Chios).	38° 23.4' N 26° 08.4' E	FI.G. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework, gallery and metal column, green band; 16.	
19944 <i>E 4643</i>	-Ormos Kolokithias, Langadha, on point.	38° 28.8' N 26° 07.6' E	FI.G. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework, gallery, metal column, green band; 20.	
19946 <i>E 4642</i>	-Vrakhonisis Strovilo.	38° 33.3' N 26° 09.8' E	FI.W. period 5s fl. 1s, ec. 4s	239 73	10	White lantern house.	Visible 116°-006°.
19948 <i>E 4640</i>	-Vrakonisi Margariti, Ormos Marmaro, entrance.	38° 33.6' N 26° 07.0' E	FI.W. period 3s fl. 0.5s, ec. 2.5s	102 31	5	Metal framework; 13.	
19950 <i>E 4640.5</i>	--Kardamyla, pier, head.	38° 32.7' N 26° 06.6' E	FI.G. period 2s fl. 0.3s, ec. 1.7s	23 7	3	Metal column with gallery on metal framework; 13.	
NISOS OINOUSSA:							
19952 <i>E 4652</i>	--Prasso, summit.	38° 31.5' N 26° 11.0' E	FI.(2)W.R. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	55 17	W. 6 R. 4	White hut; 13.	W. 323°-301°, R.-323°.
19956 <i>E 4653</i>	--Mandhraki.	38° 30.6' N 26° 13.2' E	FI.W. period 2s fl. 0.2s, ec. 1.8s	62 19	4	Metal framework; 16.	
19958 <i>E 4653.2</i>	--Breakwater, head.	38° 30.8' N 26° 13.1' E	Q.G.	30 9	3	White metal framework with gallery, green band; 20.	
19959 <i>E 4653.3</i>	--S. mole, head.	38° 30.6' N 26° 13.2' E	Q.R.	26 8	3	White hexagonal hut with column and gallery with red band; 20.	
19960 <i>E 4653.5</i>	--Inner mole, head.	38° 30.9' N 26° 13.0' E	F.G.	16 5	3	White concrete column, green band; 13.	
19968 <i>E 4654</i>	Nisidha Pasas	38° 30.1' N 26° 17.7' E	FI.(2)W. period 20s fl. 1s, ec. 3s fl. 1s, ec. 15s	226 69	11	Round tower, dwelling; 23.	
ILDIR KORFEZI:							
19970 <i>E 4655.5</i>	-Ufak Island (T.), N. point.	38° 23.5' N 26° 25.8' E	FI.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	33 10	8		
19972 <i>E 4656.4</i>	-Altin Yunus, yacht harbor, breakwater, head.	38° 19.5' N 26° 20.8' E	F.G.	13 4			
19972.1 <i>E 4656.6</i>	--Breakwater, head.	38° 19.5' N 26° 20.8' E	F.R.	13 4			

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TURKEY-GREECE							
19973 E 4655.2	-Dalyan.	38° 21.5' N 26° 19.1' E	Fl.W. period 5s fl. 1s, ec. 4s	33 10	7	Metal tower.	
19974 E 4655	-Toprak Ada (T.), summit.	38° 23.2' N 26° 16.4' E	Q.(9)W. period 15s	79 24	7	White metal framework tower; 20.	
19976 E 4657	Cesme Korfezi (T.), Fener Burnu.	38° 19.3' N 26° 16.9' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	33 10	8	White tower; 13.	Shows very faintly when bearing more than 236°. Fl.W. on TV tower 0.86 mile NE.
19977 E 4656.24	--Ferry Terminal, jetty, head.	38° 19.5' N 26° 17.7' E	Fl.(2)Y. period 4s	26 8	5		
19978 E 4656.22	--Jetty, head.	38° 19.4' N 26° 17.9' E	Iso.Y. period 3s	26 8	3		
19980 E 4656	-Kaloyeri (T.), on reef.	38° 19.8' N 26° 16.1' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	30 9	5	Yellow top on black and white concrete building; 30.	
19984 E 4658	Fener Adasi (T.), summit.	38° 17.6' N 26° 11.7' E	Fl.W.R. period 5s fl. 0.5s, ec. 4.5s	141 43	W. 12 R. 7	Metal framework tower; 30.	R. 234°-282°, W.-234°.
19987 E 4658.5	Alacati Korfezi (T.), W. of entrance.	38° 13.8' N 26° 21.4' E	Fl.Y. period 5s fl. 1s, ec. 4s	26 8	5	Yellow metal column; 23.	
19988 E 4659	Bozalan Burnu (T.)	38° 13.5' N 26° 23.4' E	Fl.(2)W. period 5s fl. 0.3s, ec. 1s fl. 0.3s, ec. 3.4s	108 33	7	White framework tower; 26.	
19996 E 4661	Teke Burnu (T.), Sigacik Korfezi, W. entrance point.	38° 06.2' N 26° 35.6' E	Fl.(3)W. period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9.5s	125 38	8	White framework tower; 26.	
19998 E 4661.5	Esek Adasi.	38° 12.1' N 26° 46.2' E	Fl.W. period 10s fl. 1s, ec. 9s	30 9	5	Steel framework mast; 20.	
19998.5 E 4661.6	-Sigacik Limani, N. breakwater, head.	38° 11.7' N 26° 46.9' E	Fl.R.	13 4	2		
20000 E 4662	Doganbey Adasi.	38° 01.2' N 26° 52.6' E	Fl.(2)W. period 5s fl. 0.3s, ec. 1s fl. 0.3s, ec. 3.4s	167 51	8	White metal framework tower; 26.	
20004 E 4664	Kusadasi (T.), Guvercin Adasi, NW. point.	37° 51.8' N 27° 14.8' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	65 20	8	White concrete tower and dwelling; 39.	
20008 E 4664.4	-Yacht harbor, W. breakwater, head.	37° 52.1' N 27° 15.6' E	Fl.(2)R. period 4s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2s	39 12	5	Concrete tower.	
20012 E 4664.3	--E. breakwater, head.	37° 52.1' N 27° 15.7' E	Fl.(2)G. period 4s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2s	26 8	5	Concrete tower.	
20013 E 4664.5	-Jetty No. 1, head.	37° 51.9' N 27° 15.2' E	Fl.Y. period 5s fl. 1s, ec. 4s	26 8	3	Yellow round tower, white bands; 20.	
20014 E 4664.6	-Jetty No. 2, head.	37° 51.8' N 27° 15.2' E	Fl.Y. period 5s fl. 1s, ec. 4s	26 8	3	Yellow round tower, white bands; 20.	
20016 E 4665	Baytak Adasi (T.).	37° 41.6' N 27° 01.1' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	75 23	8	White metal framework tower; 23.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TURKEY-GREECE							
20018 <i>E 4665.05</i>	Tarsan Adasi.	37° 39.1' N 27° 00.1' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	98 30	9	White metal framework tower; 26.	
NISOS SAMOS (GR.):							
20019 <i>E 4682</i>	-Limin Karlovasi, N. breakwater, head.	37° 48.0' N 26° 41.1' E	Fl.G. period 3s	30 9	3	Green metal column.	
20021	--E. breakwater, head.	37° 47.9' N 26° 41.2' E	Fl.R. period 3s	23 7	3		
20021.1	--W. breakwater, head.	37° 47.8' N 26° 41.0' E	Fl.R. period 3s	23 7	3		
20028 <i>E 4680</i>	--Akra Pangosi, W. side of entrance.	37° 47.6' N 26° 40.7' E	Fl.W. period 5s fl. 1s, ec. 4s	92 28	11	Metal column with gallery on round hut; 20.	
20030 <i>E 4665.9</i>	-Akra Kokkari.	37° 46.9' N 26° 53.6' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework, gallery, metal column, green band.	
20031 <i>E 4667</i>	-Vathi, mole, head.	37° 45.3' N 26° 58.2' E	Fl.R. period 3s fl. 0.4s, ec. 2.6s	33 10	4	White hexagonal hut, column, gallery, red band; 26.	
20031.5 <i>E 4667.07</i>	-Limenas Samou, E. breakwater, head.	37° 45.3' N 26° 58.6' E	F.R.	20 6	3	White metal column, red band.	
20031.6 <i>E 4667.05</i>	--W. breakwater, head.	37° 45.3' N 26° 58.5' E	F.G.	20 6	3	White metal column, green band.	
20032.1 <i>E 4666</i>	-Akra Kotzikas.	37° 47.1' N 26° 57.0' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	46 14	4	Metal framework, gallery, metal column, red band; 13.	
20033 <i>E 4666.2</i>	-Vrak Prasonisi.	37° 47.8' N 26° 57.7' E	Fl.(2)W. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	52 16	7	White metal framework, gallery and metal column; 10.	
20036 <i>E 4669</i>	-Akra Gatos.	37° 43.4' N 27° 04.1' E	Fl.(3)W. period 14s fl. 5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 9.5s	52 16	7	Metal framework; 13.	
20037 <i>E 4669.3</i>	-Pythagoreio Marina, N. mole, head.	37° 41.5' N 26° 57.5' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal framework, gallery and metal column, green band; 16.	
20038 <i>E 4669.5</i>	--S. mole, head.	37° 41.4' N 26° 57.5' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	20 6	3	Metal framework, gallery and metal column, red band; 16.	
20040 <i>E 4670</i>	--Akra Fonias.	37° 41.3' N 26° 57.2' E	Fl.W. period 4s fl. 0.4s, ec. 3.6s	49 15	5	Metal framework; 13.	
20044 <i>E 4674</i>	--S. breakwater, head.	37° 41.3' N 26° 57.0' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	23 7	3	Metal framework; 13.	
20048 <i>E 4676</i>	--Inner Harbor, mole, head.	37° 41.4' N 26° 56.8' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	20 6	3	White hexagonal hut, column, green band; 13.	
20050 <i>E 4677</i>	-Limnonaki Bay.	37° 39.7' N 26° 46.8' E	Fl.G. period 2s fl. 0.1s, ec. 1.9s	30 9	3	White round hut, green band; 9.	
20051 <i>E 4677.8</i>	-Kolpos Marathokambou, Ormos Koumaiikon, mole, head.	37° 41.9' N 26° 44.6' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal framework, gallery and metal column, red band; 19.	
20051.1 <i>E 4677.5</i>	-Maratokapmos Harbor, N. mole, head.	37° 42.5' N 26° 42.2' E	Fl.G. period 5s		3		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TURKEY-GREECE							
20051.2 <i>E 4677.6</i>	--S. mole, head.	37° 42.4' N 26° 42.2' E	Fl.R. period 5s			3	
20052 <i>E 4678</i>	-Akra Ayios Dhomenikos.	37° 40.7' N 26° 35.5' E	Fl.W. period 3.6s fl. 0.5s, ec. 3.1s	52 16		5	Metal framework; 16.
NISIDHES FOURNOI (GR.):							
20056 <i>E 4689</i>	-Ormos Fournoi, Akra Sbistokamiyos.	37° 34.5' N 26° 28.3' E	Fl.W.R. period 3.5s fl. 0.5s, ec. 3s	59 18	W. 4 R. 3	4	Metal framework on round hut; 16. R. 034°-138°, W.-172°, R.-243°, obsc.-034°.
20058	-Khrisomilia, mole, head.	37° 37.6' N 26° 30.4' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	23 7		3	Metal framework with gallery, metal column and green band.
20058.1	--Mole, head.	37° 37.6' N 26° 30.4' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	23 7		3	Metal framework with gallery, metal column and red band.
20060 <i>E 4688</i>	-Akra Malaki.	37° 39.3' N 26° 30.6' E	Fl.(2)W. period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 9.5s	131 40		8	White square hut, metal framework tower; 24.
20064 <i>E 4687</i>	-Akra Trakhilas.	37° 34.8' N 26° 23.9' E	Fl.(2)W. period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 12.5s	121 37		7	Metal column on round hut; 16.
NISOS IKARIA (GR.):							
20068 <i>E 4690</i>	-Akra Pappas.	37° 30.8' N 25° 58.8' E	Fl.W. period 20s fl. 1.3s, ec. 18.7s	246 75		25	Round tower and dwelling; 36. Visible 278°-158°.
20070 <i>E 4695</i>	-Limin Kirikou, mole, head.	37° 36.9' N 26° 17.8' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	29 9		4	White round hut, metal framework, red band; 13.
20072 <i>E 4694</i>	-Akra Dhrapanon, E. point.	37° 42.3' N 26° 22.0' E	Fl.(3)W. period 24s fl. 1s, ec. 3s fl. 1s, ec. 3s fl. 1s, ec. 15s	118 36		12	Iron framework obelisk, hut. Visible 095°-358°.
20076 <i>E 4693</i>	-Vrakhonisis Evdhilos.	37° 38.4' N 26° 11.7' E	Fl.W. period 7.5s fl. 0.6s, ec. 6.9s	62 19		11	Metal framework; 16. Visible 100°-314°.
20078 <i>E 4692.5</i>	-Ormos Evdhilou.	37° 38.0' N 26° 11.0' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	36 11		3	Square hut, metal framework, gallery; 23.
20080 <i>E 4692</i>	-Akra Armenistis (Strephoni).	37° 38.4' N 26° 04.2' E	Fl.(3)W. period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	95 29		11	Beacon. Visible 058°-269°.
NISOS GAIDHAROS (GR.):							
20084 <i>E 4776</i>	-S. point of island.	37° 26.8' N 26° 57.6' E	Fl.W. period 2s fl. 0.3s, ec. 1.7s	52 16		6	Metal framework; 13. Visible 186°-033°. Obscured 308°-329° by Nisis Kounelei.
NISOS PATMOS (GR.):							
20088 <i>E 4771</i>	-Limin Skala, breakwater, head.	37° 19.2' N 26° 32.8' E	Fl.R. period 1.5s fl. 0.2s, ec. 1.3s	23 7		3	Metal framework on round hut, red band; 20.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TURKEY-GREECE							
20092 E 4770.6	-Akra Aspri.	37° 19.5' N 26° 33.6' E	Fl.W.R. period 2s fl. 0.3s, ec. 1.7s	46 14	W. 7 R. 5	White round hut; 10.	W. 133°-272°, R.-320°, W.-048°.
20096 E 4772	-Akra Ilias.	37° 16.2' N 26° 34.3' E	Fl.(3)W. period 9s fl. 0.3s, ec. 1.5s fl. 0.3s, ec. 1.5s fl. 0.3s, ec. 5.1s	164 50		Metal framework on round hut; 13.	Visible 182°-086°.
20100 E 4771.4	-Skopeloi Tragos.	37° 17.4' N 26° 34.8' E	Fl.(2)W.R. period 12s fl. 0.3s, ec. 1.4s fl. 0.3s, ec. 10s	30 9	W. 5 R. 3	White metal framework; 13.	R. 087°-232°, W.-087°.
20104 E 4770	-Akra Geranos, on point.	37° 20.5' N 26° 36.8' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	118 36		Metal framework; 13.	
20108 E 4768.5	Nisis Anidhro (Gr.).	37° 24.6' N 26° 29.4' E	Fl.W.R. period 6s fl. 0.4s, ec. 5.6s	351 107	W. 9 R. 6	White square hut; 10.	R. 090°-100°, W.-090°.
20112 E 4772.6	Nisos Akri (Gr.), on Punta Cisterna.	37° 22.9' N 26° 43.8' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	46 14		White round hut with metal framework; 16.	Visible 291°-129°.
20117 E 4774.2	-Pier, SW. head.	37° 17.7' N 26° 45.8' E	F.R.	20 6		White metal framework with gallery and metal column; 16.	
20120 E 4773	-Akra Gatto.	37° 17.4' N 26° 44.8' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	88 27		Metal framework on round hut; 16.	Visible 243°30'-088°30'.
20124 E 4775	Nisidhes Kalapodhia (Gr.).	37° 15.4' N 26° 48.8' E	Fl.W. period 4s fl. 0.4s, ec. 3.6s	105 32		White metal framework tower; 13.	
20128 E 4775.5	Nisis Sarakina (Gr.).	37° 13.8' N 26° 42.0' E	Fl.(2)W. period 8s fl. 0.5s, ec. 1.6s fl. 0.5s, ec. 5.4s	75 23		Metal framework on round hut; 16.	
NISOS LEROS (GR.):							
20132 E 4698	-Ormos Alindhas.	37° 09.7' N 26° 51.5' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	53 16		Concrete hexagonal hut with column; 26.	
-Limni Lakki:							
20136 E 4702	--Akra Katsouni.	37° 06.8' N 26° 49.4' E	Fl.(2)W. period 14s fl. 1s, ec. 2s fl. 1s, ec. 10s	223 68		Metal pyramid with gallery; 10.	
20140 E 4703	--Akra Angistro.	37° 06.6' N 26° 49.8' E	Fl.W. period 2.5s fl. 0.2s, ec. 2.3s	151 46		White round hut; 10.	
20144 E 4704	--Lakkion, pier, head, S. end.	37° 07.7' N 26° 51.0' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	23 7		Metal framework on round hut, red band; 20.	
20146 E 4704.5	-Ormos Xirokambos mole, head.	37° 06.4' N 26° 52.2' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	23 7		Metal framework, red band, gallery and metal column.	
20148 E 4705	-Glaronisia.	37° 05.6' N 26° 53.1' E	Fl.W. period 2s fl. 0.3s, ec. 1.7s	46 14		White round hut, metal framework; 16.	
20152 E 4700	-Ayios Kiriake.	37° 08.8' N 26° 53.3' E	Fl.(3)W. period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 10.5s	69 21		Metal framework; 16.	Visible 105°-052°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TURKEY-GREECE							
20156 E 4777	Farmakonisi (Gr.).	37° 16.8' N 27° 05.3' E	Fl.W. period 14s fl. 1s, ec. 2s fl. 1s, ec. 10s	388 118	12	White pyramid with gallery; 10.	
MANDALYA KORFEZI (T):							
20160 E 4665.8	-Tekagac Burnu.	37° 21.3' N 27° 13.1' E	Fl.W. period 15s fl. 1s, ec. 14s	49 15	10	White round concrete tower; 39.	
20161 E 4665.78	-Skrophes Bay, passenger pier.	37° 21.0' N 27° 16.5' E	Fl.(3)Y. period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4.5s	23 7	3	Yellow round mast; 16.	
20162 E 4665.7	-Akbuk-Panayir Adasi.	37° 19.7' N 27° 19.7' E	Fl.(3)W. period 15s	115 35	12	White concrete tower; 26.	
20164 E 4665.4	-Gulluk.	37° 14.2' N 27° 35.3' E	Fl.(2)W. period 5s fl. 0.3s, ec. 1s fl. 0.3s, ec. 3.4s	36 11	18	White round concrete tower; 30.	
20164.1	--NE. mole, head.	37° 14.3' N 27° 35.7' E	Fl.(2)Y. period 8s	30 9	5	Yellow round tower; 23.	
20165 E 4665.3	-Yilan Ada.	37° 11.9' N 27° 33.0' E	Fl.G. period 5s fl. 1s, ec. 4s	46 14	7	White metal framework tower; 26.	
20166 E 4665.5	-Karaburun Feneri.	37° 13.5' N 27° 31.5' E	Fl.R. period 5s fl. 1s, ec. 4s	59 18	5	White metal framework tower; 20.	
20168 E 4665.6	-Incegol Burnu.	37° 13.8' N 27° 30.3' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	43 13	12	White concrete tower; 29.	
20172 E 4665.2	-Kara Ada, NW. point.	37° 10.7' N 27° 23.1' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	56 17	10	White concrete tower; 20.	
20174 E 4665.25	Gundogan, breakwater.	37° 07.6' N 27° 20.7' E	Fl.G. period 5s fl. 1s, ec. 4s	33 10	5	Metal framework tower.	
20175	-Gemitasi.	37° 09.1' N 27° 15.8' E	Iso.W. period 3s	39 12	7		
20176 E 4708.5	Buyukkiremit Adasi (T.).	37° 05.0' N 27° 14.0' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	292 89	10	White concrete tower; 20.	
20180 E 4708	Kalolimnos (Gr.).	37° 03.6' N 27° 06.2' E	Fl.W. period 3s fl. 0.4s, ec. 2.6s	95 29	7	Metal framework; 16.	Visible 122°-055°.
20186 E 4710	Limin Kalimnou, S. mole, head.	36° 56.9' N 26° 59.6' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	33 10	6	Metal framework with gallery; 10.	
20187 E 4710.4	-Vouvali fishing harbor, N. mole, head.	36° 57.0' N 26° 59.5' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	23 7	6	Metal framework tower, column and gallery; 26.	
NISIS PSERIMOS (GR.):							
20192 E 4711.3	-Nisis Nekrothikes, W. side of island.	36° 57.2' N 27° 05.7' E	Fl.W.R. period 5s fl. 0.5s, ec. 4.5s	75 23	W. 6 R. 4	Metal framework on round hut; 16.	W. 049°-349°, R.-049°.
20196 E 4711	-Akra Rousa, E. point of island.	36° 55.4' N 27° 10.8' E	Fl.(2)W.R. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	141 43	W. 12 R. 9	White lantern house; 13.	W. 182°-262°, R.-281°, W.- 086°, obsc.-182°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TURKEY-GREECE							
20200 E 4711.5	Nisis Safonidhi (Gr.).	36° 53.1' N 26° 55.3' E	L.FI.W. period 10s fl. 2s, ec. 8s	210 64	9	Metal framework on pedestal; 26.	
20204 E 4708.7	-Catal Ada.	37° 00.7' N 27° 13.4' E	Fl.(4)W. period 20s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 12s	157 48	6	White metal framework pylon; 26.	
20205 E 4709	Topan.	37° 00.4' N 27° 10.9' E	Fl.W. period 5s fl. 0.3s, ec. 4.7s	177 54	7	White metal framework tower; 26.	
KOS CHANNEL (T):							
20208 E 4712	-Fener Burnu.	36° 57.9' N 27° 15.9' E	Fl.(2)W. period 15s	49 15	14	White stone tower, dwelling; 30.	
BODRUM LIMANI:							
20212 E 4714	-Kargi Ada, on islet.	36° 57.6' N 27° 18.3' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	108 33	8	White metal framework pylon; 26.	
20216 E 4730	-Bodrum, W. breakwater.	37° 01.8' N 27° 25.6' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	26 8	8	White concrete tower, dwelling; 23.	
20220 E 4730.4	-E. breakwater, head.	37° 01.8' N 27° 25.6' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	26 8	8	White metal framework tower; 20.	
20221 E 4730.7	-Outer Harbor, pier, head.	37° 01.4' N 27° 26.1' E	Fl.(3)Y. period 8s	26 8	3		
20222 E 4729	-Haremten.	37° 00.9' N 27° 24.9' E	Q.(6)+L.FI.W. period 15s	20 6	6	S. CARDINAL YB, pile, topmark; 13.	
20224 E 4728	-Kara Ada, Karaada Feneri.	36° 59.8' N 27° 25.5' E	Fl.(2)W. period 5s fl. 0.3s, ec. 1s fl. 0.3s, ec. 3.4s	23 7	5	White metal tower; 26.	
GOKOVA KORFEZI (T):							
20228	Orak Adasi.	36° 58.1' N 27° 36.1' E	Fl.W. period 10s fl. 1s, ec. 9s	56 17	7	Metal framework pylon; 20.	
20230 E 4731	-Sanacak Burnu.	37° 01.3' N 27° 58.4' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	20 6	8	White iron tripod; 16.	
20232 E 4731.4	-Sehir Adalari, Orta Ada.	36° 59.9' N 28° 12.8' E	Fl.W.R. period 10s fl. 0.5s, ec. 9.5s	49 15	W. 9 R. 6	White metal framework tower; 33.	R. 024°-056°, W.-024°.
20234 E 4731.5	-Kara Adasi.	36° 56.7' N 28° 09.3' E	Fl.W. period 6s fl. 1s, ec. 5s	102 31	10	White metal tower, black bands; 23.	
20236 E 4731.6	-Koyun Burnu.	36° 55.5' N 28° 01.5' E	Fl.(3)W. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	43 13	7	White metal framework tower; 26.	
20237	-Korem Adalari, W. mole, head.	36° 56.4' N 28° 07.5' E	Fl.(2)W. period 8s	26 8	5		
20237.1	--E. mole, head.	36° 56.4' N 28° 07.6' E	Q.W.	16 5	2		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TURKEY-GREECE							
20238	-Mersincik Burnu.	36° 50.1' N 28° 00.2' E	Fl.W.R. period 3s fl. 0.3s, ec. 2.7s	98 30	W. R.	7 5	White framework tower; 16. W. 270°-154°, R.-270°.
20240 E 4731.7	-Ince Burnu.	36° 48.7' N 27° 38.5' E	Fl.(2)W. period 5s	184 56		7	Metal framework; 26.
NISOS KOS (GR.):							
20244 E 4722	-Akra Ammoglossa.	36° 55.0' N 27° 16.8' E	Fl.R. period 4s fl. 0.8s, ec. 3.2s	23 7		9	Metal framework on square hut, red band; 16. Visible 080°-320°.
20255	-Limin Kos, N. pier, head.	36° 54.0' N 27° 17.3' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	30 9		4	Metal framework with column and gallery, green band.
20256 E 4726	--W. mole, head.	36° 53.9' N 27° 17.3' E	Q.G.	30 9		3	White hexagonal hut with column, gallery, green band; 26.
20257 E 4726.3	--E. mole, head.	36° 53.9' N 27° 17.4' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	33 10		3	Column with gallery on white hut, red band; 26.
20258 E 4726.4	-Kos Marina, W. mole, head.	36° 53.6' N 27° 18.1' E	Fl.G. period 4s fl. 0.3s, ec. 3.7s	20 6		3	Metal framework, gallery, metal column, green band; 20.
20258.5 E 4726.5	--E. mole, head.	36° 53.6' N 27° 18.0' E	Fl.R. period 4s fl. 0.3s, ec. 3.7s	20 6		3	Metal framework, gallery, metal column, red band; 20.
20260 E 4726.6	-Akra Louros.	36° 53.4' N 27° 20.3' E	Fl.(3)W.R. period 15s fl. 0.3s, ec. 1.2s fl. 0.3s, ec. 1.2s fl. 0.3s, ec. 11.7s	33 10	W. R.	6 4	White square hut, metal framework; 23. W. 130°-060°, R.-130°.
20261 E 4726.7	-Okeanis, mole.	36° 52.5' N 27° 21.1' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	23 7		3	White metal column with red band; 16.
20264 E 4727	-Akra Ayios Fokas.	36° 51.5' N 27° 21.5' E	Fl.W. period 4s fl. 0.4s, ec. 3.6s	75 23		6	Metal framework tower; 20.
20265 E 4727.5	-Porto Bello Hotel, S. breakwater, head.	36° 45.8' N 27° 07.1' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	23 7		3	Metal framework with gallery, metal column and red band; 20.
20266 E 4727.55	--N. breakwater, head.	36° 45.8' N 27° 07.1' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	23 7		3	Metal framework with gallery, metal column and green band; 20.
20268 E 4727.6	-Ormos Kamari.	36° 44.2' N 26° 58.4' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	23 7		4	Metal framework, red band; 13.
20269 E 4727.65	-Limnionas, mole, head.	36° 46.4' N 26° 57.9' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	23 7		3	Metal framework, gallery and column, green band; 20.
20270 E 4727.7	-Mastikhari, mole, head.	36° 51.2' N 27° 04.6' E	Fl.G. period 3s fl. 1s, ec. 2s	33 10		6	White hexagonal hut with column, green band.
NISIS YIALI (GR.):							
20272 E 4716	-Ayios Andonios.	36° 39.7' N 27° 08.2' E	Fl.W. period 2s fl. 0.3s, ec. 1.7s	46 14		5	Metal framework tower on pedestal. Visible 217°-110°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TURKEY-GREECE							
NISOS NISIROS (GR.):							
20276 E 4718	-Mandrakion, small mole, head.	36° 36.8' N 27° 08.3' E	Q.G.	20 6	3	Metal framework tower on pedestal, green band.	Locally maintained.
20280 E 4720	-Akra Palos.	36° 37.2' N 27° 11.2' E	Fl.(2)W. period 9s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 6.2s	92 28	12	White round hut, metal framework; 16.	Visible 100°-319°.
GREECE-DHODHEKANISOI							
NISOS TILOS (GR.):							
20284 E 4721	-Vrakhonisis Gaidharos.	36° 29.1' N 27° 17.1' E	Fl.(2)W. period 16s fl. 1s, ec. 2s fl. 1s, ec. 12s	233 71	10	Metal framework; 13.	
20285 E 4721.1	-Agios Antonios, N. mole, head.	36° 27.6' N 27° 20.1' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal framework, gallery and metal column, red band.	
20285.1 E 4721.2	--S. mole, head.	36° 27.6' N 27° 20.1' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal framework, gallery and metal column, green band.	
20288 E 4721.4	-Ormos Livadhia.	36° 24.8' N 27° 24.2' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	85 26	3	Metal framework, red band; 16.	
20292 E 4764	Nisis Kandhelousa (Gr.).	36° 30.0' N 26° 57.5' E	Fl.W. period 10s fl. 0.3s, ec. 9.7s	181 55	17	Round tower and dwelling; 33.	
20300 E 4766.2	-Limin Maltezana, pier, head.	36° 34.6' N 26° 23.3' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	20 6	4	Metal framework on white round hut, green band; 16.	
20304 E 4767	-Akra Palli.	36° 34.8' N 26° 20.2' E	Fl.W.R. period 3s fl. 0.3s, ec. 2.7s	39 12	W. R. 5 3	Metal framework on white round hut; 17.	W. 138°-172°, R.-237°, W.-354°.
20308 E 4765	-Akra Floudha.	36° 38.6' N 26° 22.8' E	Fl.(2)W. period 14s fl. 1s, ec. 2s fl. 1s, ec. 10s	338 103	12	Metal framework with gallery on white square hut; 24.	
20312 E 4766	-Limin Skala, N. side of entrance.	36° 33.0' N 26° 21.6' E	Fl.W.R. period 3s fl. 0.4s, ec. 2.6s	46 14	W. R. 5 3	White metal framework; 10.	W. 193°-261°, R.-293°, W.-080°.
20313 E 4765.8	-Skala Astipalaia, SE. quay.	36° 32.9' N 26° 21.4' E	3 F.G. (vert.)	23 7	3	White metal column.	Lights form inverted L.
20314 E 4765.82	--NW. Quay.	36° 32.9' N 26° 21.3' E	3 F.G. (vert.)	23 7	3	White metal column.	Lights form inverted L.
20316 E 4765.7	-Nisis Khondro, E. side.	36° 33.8' N 26° 24.3' E	Fl.W. period 4.5s fl. 0.3s, ec. 4.2s	49 15	4	White round hut; 12.	Visible 121°-323°.
20320 E 4765.5	-Akra Poulari.	36° 34.9' N 26° 28.4' E	Fl.(2)W. period 9s fl. 0.3s, ec. 1.2s fl. 0.3s, ec. 7.2s	102 31	7	White metal framework; 12.	
20324 E 4764.5	Nisis Plakhida.	36° 16.9' N 26° 44.5' E	Fl.W.R. period 3s fl. 0.3s, ec. 2.7s	276 84	W. R. 9 6	White metal framework; 13.	R. 068°-248°, W.-068°.
20328 E 4760.3	Nisis Astakidha.	35° 52.5' N 26° 49.5' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	190 58	8	Metal framework on round hut; 8.	Visible 199°30'-148°30'.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
GREECE-DHODHEKANISOI							
20332 <i>E 4761</i>	Nisidhes Sofrana.	36° 05.0' N 26° 23.4' E	Fl.W. period 10s fl. 0.5s, ec. 9.5s	121 37	10	Metal framework with gallery on square hut.	Visible 065°-300°.
20336 <i>E 4760.7</i>	Ounianisia.	35° 49.6' N 26° 27.8' E	Fl.(2)W. period 16s fl. 1s, ec. 2s fl. 1s, ec. 12s	345 105	7	Metal framework on round hut.	
20340 <i>E 4761.3</i>	Kamilonisi.	35° 51.8' N 26° 14.6' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	135 41	5	Metal framework on white round hut; 18.	
NISIS KASOS (GR.):							
20344 <i>E 4761.8</i>	-Emborios.	35° 25.3' N 26° 57.4' E	Fl.G. period 1.5s fl. 0.2s, ec. 1.3s	36 11	3	Metal framework with column and gallery, green band.	
20348 <i>E 4762</i>	-Bouka.	35° 25.1' N 26° 55.4' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal framework on white round hut, red band; 17.	
20352 <i>E 4763</i>	--Akra Ayios Yeoryios.	35° 25.3' N 26° 55.6' E	Fl.W.R. period 3s fl. 0.3s, ec. 2.7s	98 30	W. 5 R. 3	Metal framework; 10.	R. 083°-175°, W.-241°, R.-251°, W.-257°.
20356 <i>E 4763.5</i>	-Nisis Plati, summit.	35° 21.7' N 26° 49.5' E	Fl.(2)W. period 16s fl. 1s, ec. 2s fl. 1s, ec. 12s	118 36	18	White round hut.	
20360 <i>E 4763.2</i>	-Akra Aviaki.	35° 20.8' N 26° 50.9' E	Fl.W. period 4s fl. 0.6s, ec. 3.4s	89 27	6	Metal framework on round hut; 30.	Visible 278°-208°.
20364 <i>E 4761.5</i>	-Nisis Strongili.	35° 26.4' N 27° 01.0' E	Fl.(2)W.R. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	75 23	W. 7 R. 5	Metal column on round hut.	W. 091°-243°, R.-258°, W.-006°.
NISOS KARPATOS (GR.):							
20366 <i>E 4757</i>	-Akra Kastellos.	35° 23.9' N 27° 08.3' E	Fl.W.R. period 3s fl. 0.5s, ec. 2.5s	39 12	W. 7 R. 4	Metal framework.	R. 225°-252°, W.-134°, obsc.-225.
20368 <i>E 4757.5</i>	-Foiniki.	35° 29.5' N 27° 07.0' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	30 9	3	Metal framework tower, red band, gallery.	
20372 <i>E 4758.4</i>	-Dhiafani.	35° 45.3' N 27° 12.9' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	59 18	4	Metal framework on round hut.	
20374 <i>E 4758.45</i>	--Mole, head.	35° 45.4' N 27° 12.8' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	23 7	3	Metal framework tower, red band.	
20376 <i>E 4760</i>	-Nisis Saria, Akra Paraspori.	35° 54.3' N 27° 13.7' E	Fl.(2)W. period 16s fl. 1s, ec. 2s fl. 1s, ec. 12s	161 49	12	Metal framework; 20.	Visible 066°-288°.
20380 <i>E 4759</i>	-Ormos Tristoma, S. islet.	35° 49.3' N 27° 12.3' E	Fl.R. period 5s fl. 0.7s, ec. 4.3s	39 12	4	Metal framework on white round hut, red band.	
20381 <i>E 4758.1</i>	-Limenas Pigadhia, mole, head.	35° 30.6' N 27° 12.9' E	Fl.R. period 4s fl. 0.4s, ec. 3.6s	23 7	3	Metal framework tower with gallery, red band.	
20382 <i>E 4758.2</i>	-Nisidha Dhespotiko.	35° 30.9' N 27° 12.7' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	33 10	6	White round hut with metal framework tower.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
GREECE-DHODHEKANISOI							
NISOS NISAKI (GR.):							
20384 E 4739	-Summit of island.	36° 12.8' N 27° 37.5' E	Fl.W.R. period 6s fl. 1s, ec. 5s	246 75	W. 8 R. 6	White metal framework with gallery and column; 10.	R. 232°-244°, W.-280°, R.-297°, W.-232°.
NISOS RODHOS (GR.):							
20388 E 4756	-Akra Prasonisi.	35° 52.3' N 27° 45.0' E	Fl.(4)W. period 30s fl. 0.1s, ec. 4.9s fl. 0.1s, ec. 4.9s fl. 0.1s, ec. 4.9s fl. 0.1s, ec. 14.9s	200 61	17	Round tower on dwelling; 46.	Visible 273°-179°.
20392 E 4740	-Nisis Tragousa, summit of island.	36° 13.0' N 27° 42.1' E	Fl.(2)W.R. period 14s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 11.5s	197 60	W. 8 R. 6	White metal framework with gallery; 13.	R. 112°-125°, W.-112°.
20394 E 4738	--Emporeio Bay.	36° 13.2' N 27° 37.2' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	39 12	6	White metal framework with gallery and column; 13.	Visible 175°-045°.
20396 E 4741	-Skala Kamiros.	36° 16.3' N 27° 49.2' E	Fl.W. period 3s fl. 0.4s, ec. 2.6s	66 20	8	Metal framework tower on round hut; 16.	
20398 E 4741.5	-Fanai, W. mole, head.	36° 21.9' N 27° 58.6' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	20 6	3	Metal framework with gallery, green band.	
20398.1 E 4741.6	--E. mole, head.	36° 22.0' N 27° 58.7' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	20 6	3	Metal framework with gallery, red band.	
20400 E 4742.5	-Rodhos AVIATION LIGHT, airport control tower.	36° 22.5' N 28° 04.7' E	Al.Fl.W.G. period 6s	246 75	15		
20408 E 4743	-Akra Milon (Koum), NE. extremity of island.	36° 27.3' N 28° 13.3' E	Fl.W.R. period 4s fl. 0.4s, ec. 3.6s	33 10	W. 6 R. 4	Metal framework with gallery and column; 16.	W. 037°-286°, R.-314°, obscured elsewhere.
-Limin Rodhos:							
20412 E 4745	--Akra Aoimbakadhartiou.	36° 27.2' N 28° 13.6' E	Fl.R.G. period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal framework with gallery and column.	G. 206°-111°, R. elsewhere.
20416 E 4744	--Ayios Nikolaos.	36° 27.0' N 28° 13.7' E	Fl.(2)W. period 12s fl. 1.2s, ec. 3s fl. 1.2s, ec. 6.6s	79 24	11	Lantern on white tower; 20.	
20420 E 4747	--Limin Mandhraki, W. mole, head.	36° 26.9' N 28° 13.6' E	F.G.	20 6	2	White stone column.	
20424 E 4746	---E. mole, head.	36° 27.1' N 28° 13.6' E	F.R.	20 6	2	White stone column.	
20428 E 4749	--Limin Emborikos (Porto Mercantile), E. breakwater.	36° 26.7' N 28° 14.0' E	Fl.R. period 2s fl. 0.2s, ec. 1.8s	26 8	4	Metal framework, red band; 20.	
20432 E 4750	---Breakwater, head.	36° 26.6' N 28° 13.8' E	Fl.G. period 2s fl. 0.2s, ec. 1.8s	39 12	4	Metal framework, green band.	
20434 E 4752	--Akantia, E. mole, head.	36° 26.9' N 28° 14.2' E	Fl.R. period 5s fl. 0.8s, ec. 4.2s	33 10	6	Metal framework tower with gallery and red band; 20.	
20435 E 4751.5	-Kanamati, Repair Centre, N. mole, elbow.	36° 25.2' N 28° 14.0' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal framework, gallery and metal column, green band; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
GREECE-DHODHEKANISOI							
20435.5 <i>E 4751.7</i>	--S. mole.	36° 25.2' N 28° 14.0' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	36 11	3	Metal framework, gallery and metal column, red band; 26.	
20435.6 <i>E 4752.5</i>	-Ormos Kalithion, inner mole, head.	36° 20.2' N 28° 12.5' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal framework with gallery metal column, green band; 20.	
20435.7 <i>E 4752.4</i>	--Outer mole, head.	36° 20.2' N 28° 12.5' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	26 8	3	Metal framework with gallery metal column, red band; 23.	
20436 <i>E 4755.5</i>	-Ormos Lardhos.	36° 04.1' N 28° 00.2' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	30 9	3	Metal framework with gallery, metal column, green band; 23.	
20440 <i>E 4755</i>	-Vakros Paximadha.	36° 00.8' N 28° 05.6' E	Fl.W.R. period 4s fl. 0.4s, ec. 3.6s	79 24	W. R. 9 6	Metal column on white round hut; 20.	W. 184°-139°, R.-184°.
TURKEY-SOUTH COAST							
20452 <i>E 4732</i>	Deveboynu Burnu.	36° 41.3' N 27° 21.8' E	Fl.(2)W. period 10s	340 104	12	White concrete tower and dwelling; 29.	Visible 315°-183°.
	RACON		V(•••-)				
20456 <i>E 4732.5</i>	Ince Burun.	36° 39.3' N 27° 42.6' E	Fl.(3)W. period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 10.5s	46 14	8	White concrete tower; 26.	
20460 <i>E 4733</i>	Uzunca Adasi.	36° 43.2' N 27° 42.7' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	34 10	3	White concrete tower; 16.	
	NISOS SIMI (GR.):						
20464 <i>E 4734</i>	-Vrakhonisis Khondros.	36° 39.0' N 27° 49.1' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	82 25	5	Metal framework on white round hut; 20.	
20466 <i>E 4734.2</i>	-Akra Makria, Nisos Nimos, N. point.	36° 39.7' N 27° 51.4' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	52 16	6	White metal framework; 20.	
20468 <i>E 4735.1</i>	-Akra Pedhi (Filonika).	36° 36.6' N 27° 52.5' E	Fl.W. period 6s fl. 0.4s, ec. 5.6s	66 20	4	Metal framework on white round hut; 16.	
20472 <i>E 4735</i>	-Akra Koutsoumba.	36° 37.8' N 27° 52.2' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	69 21	5	White house; 16.	
20476 <i>E 4734.4</i>	-Porto Simis.	36° 36.8' N 27° 50.2' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	26 8	3	White round hut, metal framework, green band.	
20480 <i>E 4735.2</i>	-Limin Panormitou.	36° 32.8' N 27° 50.4' E	Fl.R. period 2s fl. 0.2s, ec. 1.8s	46 14	3	White round hut, metal column, red band; 13.	
20484 <i>E 4735.5</i>	-Nisis Koulodros.	36° 30.6' N 27° 52.2' E	Fl.(3)W. period 15s fl. 0.7s, ec. 2.4s fl. 0.7s, ec. 2.4s fl. 0.7s, ec. 8.1s	98 30	15	White round hut with framework; 20.	
20488 <i>E 4736</i>	-Marmara Islet.	36° 33.4' N 27° 45.7' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	125 38	6	Metal framework; 13.	
20490 <i>E 4733.4</i>	Atabol Kayasi.	36° 40.1' N 27° 57.6' E	Fl.(2)W. period 5s	16 5	6	ISOLATED DANGER BRB, column, topmark.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TURKEY-SOUTH COAST							
20492 <i>E 4737</i>	Karaburun.	36° 32.9' N 27° 58.7' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	118 36	10	White metal framework tower; 20.	
20496 <i>E 5836</i>	Kadirga Burnu, near extremity.	36° 43.9' N 28° 18.1' E	Fl.(3)W. period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 10.5s	128 39	12	White mast on dwelling; 39.	
20499	Kargatasi Adasi.	36° 45.9' N 28° 16.4' E	Fl.(2)W. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	66 20	2	ISOLATED DANGER BRB, tower, topmark.	
20500 <i>E 5838</i>	Kec Adasi, S. point of islet.	36° 47.9' N 28° 15.6' E	Fl.W. period 2s fl. 0.2s, ec. 1.8s	98 30	7	White metal column on dwelling; 39.	
20500.5	Icmeler.	36° 48.1' N 28° 14.4' E	Fl.Y. period 5s	26 8	3		
20501 <i>E 5838.2</i>	Yildiz Adasi, NW. corner of island, near extremity.	36° 48.9' N 28° 15.8' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	29 9	5	White tower.	
20501.1 <i>E 5838.27</i>	Marmaris, town, W. side.	36° 51.1' N 28° 16.3' E	Fl.(4)Y. period 12s	23 7	3		
20501.2 <i>E 5838.28</i>	--E. side.	36° 51.0' N 28° 16.5' E	Fl.(4)Y. period 10s	26 8	3		
20501.3 <i>E 5838.29</i>	-W. breakwater, head.	36° 51.1' N 28° 16.6' E	Fl.R. period 4s	26 8	3		
20502 <i>E 5838.3</i>	-S. breakwater.	36° 51.0' N 28° 16.6' E	Fl.G. period 4s	23 7	3	White metal structure; 10.	
20502.1 <i>E 5838.35</i>	-N. breakwater.	36° 51.1' N 28° 16.7' E	Fl.(2)R. period 6s	26 8	5	White metal structure; 10.	
20503.1	-Outer pier, head.	36° 50.9' N 28° 17.0' E	Fl.R.				
20503.2	Delihurma, outer breakwater.	36° 50.6' N 28° 17.1' E	Fl.(2)G.		3		
20503.21	-Inner breakwater.	36° 50.7' N 28° 17.2' E	Fl.(2)R.		3		
20503.3	Karayar.	36° 49.3' N 28° 18.6' E	Fl.G.		3		
20504 <i>E 5838.4</i>	Yilancik Adasi.	36° 46.5' N 28° 26.9' E	Fl.W.R. period 5s fl. 0.5s, ec. 4.5s	335 102	W. 10 R. 7	White metal framework tower; 23.	W. 098°-086°, R.-098°.
20506 <i>E 5838.5</i>	Delikkaya Burnu.	36° 49.8' N 28° 25.6' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	328 100	8	Metal framework tower; 20.	
20508 <i>E 5838.6</i>	Bugluca.	36° 50.3' N 28° 27.6' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	220 67	6	Metal framework tower; 20.	
20509 <i>E 5838.65</i>	Aksaz.	36° 50.5' N 28° 23.1' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	82 25	3	Metal framework tower; 20.	
20509.1 <i>E 5838.67</i>	Canakci.	36° 51.2' N 28° 23.7' E	Fl.(2)R. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	33 10	5	Metal framework tower; 20.	
20509.2 <i>E 5838.68</i>	Akburun.	36° 51.3' N 28° 24.5' E	Fl.(2)G. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	33 10	5	Metal framework tower; 20.	

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TURKEY-SOUTH COAST							
20510 <i>E 5838.7</i>	Kargili Burnu.	36° 51.8' N 28° 26.5' E	Q.W.	197 60	10	Metal framework tower; 20.	
20512 <i>E 5839.4</i>	Karacay.	36° 49.4' N 28° 33.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	131 40	5	Framework tower.	
20516 <i>E 5839</i>	Dalyan, on the islet.	36° 47.9' N 28° 35.6' E	Fl.(2)W. period 5s fl. 0.3s, ec. 1s fl. 0.3s, ec. 3.4s	115 35	8	White tower; 20.	
20520 <i>E 5839.45</i>	Baba Adasi, on islet.	36° 41.6' N 28° 41.7' E	Fl.(2)W. period 5s fl. 0.3s, ec. 1s fl. 0.3s, ec. 3.4s	190 58	9	White metal framework pylon; 26.	
20528 <i>E 5844.2</i>	Ilbiz Burnu.	36° 32.7' N 29° 00.6' E	Fl.(2)W. period 5s fl. 0.3s, ec. 1s fl. 0.3s, ec. 3.4s	75 23	10	White framework tower.	
20529 <i>E 5844.22</i>	-Gemiler Adasi.	36° 33.2' N 29° 04.1' E	Fl.W.R. period 4s	318 97	10	Reinforced concrete brick; 13.	W. 117°-016°, R.-100°.
20532 <i>E 5839.5</i>	Peksimet Adasi.	36° 34.0' N 28° 49.5' E	Fl.W. period 10s fl. 1s, ec. 9s	115 35	12	White concrete tower; 26.	
FETHIYE KORFEZI:							
20536 <i>E 5841</i>	-Kizil Adalar.	36° 39.3' N 29° 02.5' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	105 32	15	White stone tower with gallery, white dwelling; 43.	
-RACON O(- - -)							
20538 <i>E 5843.5</i>	-Pacariz Burnu.	36° 38.5' N 29° 06.1' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	46 14	4	Concrete tower, 26.	
20540 <i>E 5842</i>	-Megri Adasi, S. point.	36° 38.9' N 29° 05.9' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	56 17	3	White metal column; 20.	
20550 <i>E 5843.7</i>	-Breakwater, head.	36° 37.5' N 29° 06.0' E	Fl.R. period 5s fl. 1s, ec. 4s	20 6	4	Red framework tower.	
20551 <i>E 5843.8</i>	--S. breakwater, head.	36° 37.5' N 29° 06.0' E	Fl.G. period 5s fl. 1s, ec. 4s	20 6	4	Green framework tower.	
20551.1	-Fethiye Limani.	36° 37.4' N 29° 06.3' E	Iso.Y. period 3s	30 9	5		
20552 <i>E 5840</i>	-Gocek Adasi (Kizlan Ada).	36° 42.7' N 28° 57.0' E	Fl.(2)W. period 10s fl. 0.3s, ec. 1.7s fl. 0.3s, ec. 7.7s	39 12	8	White framework tower; 20.	
20556 <i>E 5840.4</i>	-Gocek Limani, 1,152 meters 255°30' from pier.	36° 45.1' N 28° 55.3' E	Fl.W.R. period 3s fl. 0.3s, ec. 2.7s	49 15	W. 7 R. 4	White metal framework tower; 20.	W. 314°-326°, R.-314°.
20557	--Breakwater, head.	36° 45.2' N 28° 56.4' E	Fl.(2)Y. period 6s	26 8	5		
20557.1	--S. breakwater, head.	36° 45.1' N 28° 56.4' E	Fl.Y. period 3s	26 8	5		
20558 <i>E 5844.21</i>	Karacaoren Rock.	36° 32.3' N 29° 03.4' E	V.Q.(6)+L.Fl.W. period 10s	33 10	5	S. CARDINAL YB, beacon, topmark; 16.	
20560 <i>E 5844.4</i>	Kutuburun.	36° 23.5' N 29° 06.2' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	92 28	12	White metal tripod; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TURKEY-SOUTH COAST							
20563 <i>E 5844.9</i>	Eden AVIATION LIGHT.	36° 15.2' N 29° 21.4' E	Fl.R.	1860 567	5	Television mast; 66.	
20564 <i>E 5844.6</i>	Catal Adasi, SW. point.	36° 12.7' N 29° 21.0' E	Fl.W. period 5s	249 76	9	White metal framework tower; 20.	
20565 <i>E 5844.8</i>	Kalkan Limani, S. breakwater.	36° 15.7' N 29° 24.9' E	Fl.R. period 5s fl. 1s, ec. 4s	33 10	5	Concrete tower; 22.	
20566	-Entrance, W. side.	36° 15.8' N 29° 24.9' E	Fl.G. period 5s fl. 1s, ec. 4s	33 10	5		
20568 <i>E 5847.6</i>	Bucak Roads, Kas Mevkil.	36° 12.3' N 29° 36.6' E	Fl.(2)W.R.G. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	52 16	W. 5 R. 4 G. 4	Galvanized sheet iron tower; 33.	G. 297°-065°, W.-071°, R.- 093°.
NISOS MEYISTI (GR.):							
20572 <i>E 5845</i>	-Akra Agios Stefanos.	36° 09.9' N 29° 35.3' E	Fl.W.R. period 4.5s fl. 0.3s, ec. 4.2s	59 18	W. 5 R. 3	White metal framework; 18.	W. 060°-086°, R.-125°, W.- 254°.
20576 <i>E 5846</i>	-Meyisti, E. side of entrance.	36° 09.0' N 29° 35.6' E	Fl.R. period 2.4s fl. 0.2s, ec. 2.2s	30 9	3	Metal framework tower, white square hut, red band; 19.	Visible 020°-252°.
20580 <i>E 5847</i>	Bayindir Limani, Kas.	36° 10.9' N 29° 38.6' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	33 10	5	White metal framework tower; 20.	
20580.5 <i>E 5847.5</i>	-Bucak Denizi. mole, head.	36° 12.3' N 29° 37.5' E	Fl.Y. period 10s		3		
20581 <i>E 5846.5</i>	-AVIATION LIGHT.	36° 10.3' N 29° 39.4' E	Fl.R.	715 218	10	Television mast; 33.	
20584 <i>E 5848</i>	Nisos Ipsili (Strongili).	36° 06.6' N 29° 37.9' E	Fl.W. period 5s fl. 0.1s, ec. 4.9s	351 107	17	Round tower on dwelling; 22.	
20588 <i>E 5848.4</i>	Kekova Olu Deniz.	36° 10.8' N 29° 49.8' E	Fl.W.G. period 3s fl. 0.3s, ec. 2.7s	85 26	W. 7 G. 4	White metal framework tower; 20.	W. 355°-358°, G. elsewhere.
20592 <i>E 5848.2</i>	Kekova Adasi, SW. point.	36° 10.3' N 29° 50.6' E	Fl.(2)W. period 5s fl. 0.3s, ec. 1s fl. 0.3s, ec. 3.4s	180 55	8	Pillar.	
20596 <i>E 5848.5</i>	-E. point.	36° 11.8' N 29° 54.8' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	115 35	9	White metal framework tower; 20.	
FINIKE KORFEZI:							
20604 <i>E 5849</i>	-Finike.	36° 16.5' N 30° 09.1' E	Fl.(2)W. period 7s fl. 1s, ec. 1s fl. 1s, ec. 4s	98 30	12	White round metal tower, black bands; 20.	
20608 <i>E 5849.4</i>	--E. breakwater, head.	36° 17.6' N 30° 09.2' E	Fl.R. period 5s fl. 0.3s, ec. 4.7s	42 13	6	Concrete tower; 30.	
20612 <i>E 5849.6</i>	--W. breakwater, head.	36° 17.7' N 30° 09.1' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	43 13	6	White concrete tower; 43.	
20616 <i>E 5850</i>	-Gelidonya Burnu.	36° 12.6' N 30° 24.3' E	Fl.(3)W. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	744 227	15	White concrete tower, dwelling; 30.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TURKEY-SOUTH COAST							
20620 <i>E 5852</i>	-Yardamci, cape, outer head.	36° 12.7' N 30° 24.2' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	118 36	8	White metal framework tower; 16.	
20624 <i>E 5854</i>	Adrasan Limani, S. side of entrance.	36° 17.8' N 30° 29.0' E	Mo.(A)W. period 15s fl. 1s, ec. 2s fl. 2s, ec. 10s	147 45	8	White iron skeleton structure, dwelling; 33.	
20628 <i>E 5854.4</i>	Av Burnu.	36° 35.8' N 30° 35.3' E	Fl.W. period 10s fl. 1s, ec. 9s	460 140	12	Metal framework tower; 20.	
20630 <i>E 5854.8</i>	-Kemer Harbor, N. rock..	36° 36.7' N 30° 34.5' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	23 7	8	Round tower on platform; 10.	
20631 <i>E 5855.5</i>	Antalya Limani, inner basin, W. pier, head.	36° 50.0' N 30° 36.4' E	Fl.(2)R. period 4s	16 5	3		
20631.1 <i>E 5855.51</i>	--E. pier, head.	36° 50.0' N 30° 36.5' E	Fl.(2)G. period 4s	16 5	3		
20632 <i>E 5855</i>	Antalya (New Harbor), main breakwater.	36° 50.0' N 30° 37.0' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	39 12	6	White metal tower; 33.	
20636 <i>E 5855.4</i>	-Lee breakwater.	36° 50.1' N 30° 36.9' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	46 14	6	Concrete tower.	
20640 <i>E 5857</i>	Antalya, N. mole.	36° 53.1' N 30° 42.1' E	Fl.R. period 3s fl. 0.4s, ec. 2.6s	23 7	4	White metal tower; 16.	
20644 <i>E 5856</i>	-S. mole.	36° 53.0' N 30° 42.2' E	Fl.G. period 3s fl. 0.4s, ec. 2.6s	23 7	4	White metal tower; 16.	
20648 <i>E 5858</i>	Baba Burnu.	36° 50.7' N 30° 45.5' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	114 35	14	White stone tower, dwelling; 20.	
20652 <i>E 5859</i>	Selimiye, on extremity of point.	36° 46.0' N 31° 23.1' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	46 14	9	Metal tower; 39.	
20656 <i>E 5860</i>	Alanya.	36° 31.6' N 32° 00.7' E	Fl.W. period 20s fl. 0.2s, ec. 19.8s	686 209	20	White stone tower and dwelling; 20.	Visible 249°-108°.
20660 <i>E 5861</i>	Selinti Burnu.	36° 14.2' N 32° 17.8' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	108 33	8	White lattice mast; 26.	
20664 <i>E 5862</i>	Anamur Burnu.	36° 01.2' N 32° 48.1' E	Fl.(2)W. period 5s fl. 0.3s, ec. 1s fl. 0.3s, ec. 3.4s	223 68	15	White masonry tower, dwelling; 33.	
20668 <i>E 5866</i>	Soguksu Limani, Aydincik, E. side of entrance.	36° 08.1' N 33° 20.7' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	75 23	8	Iron framework tower, masonry base; 13.	
20668.1	Sancak Burnu.	36° 07.5' N 33° 23.6' E	Fl.(3)W. period 10s	39 12	10		
20669 <i>E 5866.5</i>	Ovacik, W. breakwater, head.	36° 11.2' N 33° 39.3' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	39 12	5	Concrete tower; 30.	
20669.1 <i>E 5866.51</i>	-E. breakwater, head.	36° 11.2' N 33° 39.4' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	39 12	5	Concrete tower; 30.	
20670 <i>E 5867</i>	Ovacik Yarimadasi.	36° 08.0' N 33° 40.9' E	Fl.(2)W. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	141 43	18	White metal column; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TURKEY-SOUTH COAST							
20672 E 5868	Dana Adasi, NE. point.	36° 11.8' N 33° 46.9' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	229 70	10	Metal framework tower on concrete base; 13.	Visible 131°-022°. AIS (MMSI No 992711234).
20673 E 5867.5	-SW. point.	36° 10.9' N 33° 45.5' E	Fl.W. period 5s fl. 1s, ec. 4s	26 8	2	White mast; 10.	
20676 E 5871	Limankalesi, Aghaliman Burnu.	36° 16.5' N 33° 50.5' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	75 23	8	Metal framework tower; 26.	AIS (MMSI No 992711238).
20680 E 5871.3	Tasucu, breakwater, head.	36° 18.9' N 33° 52.9' E	Fl.(2)R. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	39 12	6	White metal framework tower; 20.	AIS (MMSI No 992711239).
20684 E 5871.32	-Inner breakwater, head.	36° 19.0' N 33° 52.9' E	Fl.(2)G. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	39 12	6	White metal framework tower; 20.	AIS (MMSI No 992711240).
20688 E 5871.4	Seka, main breakwater.	36° 18.6' N 33° 53.4' E	Fl.G. period 3s fl. 1s, ec. 2s	23 7	5	Green concrete tower, white band; 13.	AIS (MMSI No 992711242).
20692 E 5871.42	Kucuk, breakwater.	36° 18.6' N 33° 53.5' E	Fl.R. period 3s fl. 1s, ec. 2s	23 7	5	Red concrete tower, white band; 13.	AIS (MMSI No 992711243).
20696 E 5871.5	Incekum Burnu.	36° 13.8' N 33° 57.3' E	Fl.W. period 10s fl. 1s, ec. 9s	42 13	10	Platform on metal column; 39.	
	RACON		K(- • -)				
	MERSIN LIMANI:						
20708 E 5872	-Mersin.	36° 47.1' N 34° 37.1' E	Fl.(3)W. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	46 14	15	White stone tower and dwelling; 39.	
20712 E 5872.2	-S. breakwater, head.	36° 47.1' N 34° 38.5' E	Fl.R. period 3s fl. 1s, ec. 2s	30 9	10	White concrete tower; 16.	
20716 E 5872.4	--Elbow.	36° 47.1' N 34° 38.1' E	Dir.Fl.W.R. period 5s fl. 0.5s, ec. 4.5s	33 10	W. 5 R. 3	White metal tripod; 10.	W. 219°-221°30'. Shown on axis of harbor fairway.
20720 E 5873	-N. breakwater, head.	36° 47.3' N 34° 38.6' E	Fl.G. period 3s	30 9	10	White concrete tower; 16.	F.R. on silos 1 mile NNE.
20721.1 E 5873.4	-Commercial Quay, head.	36° 47.7' N 34° 38.3' E	Fl.(3)Y. period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4.5s	30 9	3	Yellow round tower; 20.	
20721.2 E 5873.5	-Container Quay, head.	36° 48.0' N 34° 38.9' E	Fl.(2)Y. period 10s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	30 9	3	Yellow round tower; 20.	
20722 E 5873.1	-Coal and Ore Quay.	36° 48.2' N 34° 39.3' E	Fl.(2+1)R. period 12s fl. 1s, ec. 1s fl. 1s, ec. 4s fl. 1s, ec. 4s	30 9	3	White metal tower.	
20723 E 5873.55	-Ferry Quay, head.	36° 48.2' N 34° 39.1' E	Fl.(2+1)G. period 12s fl. 1s, ec. 1s fl. 1s, ec. 4s fl. 1s, ec. 4s	30 9	3	White round tower; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TURKEY-SOUTH COAST							
20724 E 5873.2	-Harbor Range, front.	36° 48.5' N 34° 39.6' E	Oc.G. period 3s lt. 2s, ec. 1s	62 19	7	Metal framework tower, concrete base; 56.	Fairway marked by lighted buoys showing Q.W.
20728 E 5873.3	--Rear, about 189 meters 40° from front.	36° 48.5' N 34° 40.6' E	Oc.G. period 3s lt. 2s, ec. 1s	79 24	7	Metal framework tower, concrete base; 66.	
20729 E 5873.05	-Liquid Bulk Jetty, head.	36° 48.1' N 34° 39.4' E	Oc.Y.	30 9	3	Yellow post; 10.	
20744 E 5873.6	-Karaduvar, main breakwater, head.	36° 48.3' N 34° 41.8' E	Fl.R. period 4s	43 13	5	White metal framework tower; 13.	
20748 E 5873.7	--Small breakwater, head.	36° 48.4' N 34° 41.8' E	Fl.G. period 4s	43 13	5	Concrete tower; 13.	
20752 E 5873.8	Deli Burnu.	36° 43.4' N 34° 54.5' E	Fl.(2)W. period 5s fl. 0.3s, ec. 1s fl. 0.3s, ec. 3.4s	56 17	5	White metal framework pylon; 49.	
20756 E 5874	Fener Burnu.	36° 32.4' N 35° 20.4' E	Fl.W. period 10s fl. 1s, ec. 9s	124 38	20	White concrete tower and dwelling; 39.	
20760 E 5874.4	Karatas, main breakwater, head.	36° 33.4' N 35° 23.0' E	Fl.R. period 5s fl. 1s, ec. 4s	33 10	8	White concrete tower; 16.	
20764 E 5874.5	-Small breakwater, head.	36° 33.5' N 35° 23.0' E	Fl.G. period 5s fl. 1s, ec. 4s	30 9	7	White concrete tower; 16.	
20766 E 5874.6	--SE.	36° 33.4' N 35° 23.3' E	Fl.(2)R. period 10s fl. 1s, ec. 1s fl. 1s, ec. 7s	30 9	10	White metal framework tower; 33.	
20768 E 5875	Yumurtalik.	36° 46.7' N 35° 49.0' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	98 30	10	White metal framework tower; 33.	
20772 E 5875.2	-Breakwater, head.	36° 46.0' N 35° 47.7' E	Fl.R. period 5s fl. 1s, ec. 4s	26 8	5	White metal framework tower; 20.	
20776 E 5875.5	-Devegecegi.	36° 43.0' N 35° 42.9' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	23 7	7	White metal framework tower; 20.	
	-RACON		Y(- • - -)		20		
20780 E 5910	Sugozu Termik Santrali.	36° 50.1' N 35° 53.0' E	Fl.(3)R. period 10s	20 6	5	Galvanised metal tower.	
20781 E 5910.1	-Jetty, elbow.	36° 50.0' N 35° 53.5' E	Fl.(4)R. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 5s	30 9	5	Galvanised metal tower.	
20782 E 5910.2	--Head.	36° 50.0' N 35° 53.4' E	Fl.(4)R. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 5s	30 9	5		
20786 E 5911	Kamisli Burun, jetty, head.	36° 51.0' N 35° 55.9' E	Mo.(U)R. period 16s	43 13	5		
20788 E 5912	Botas Liman, pier, head.	36° 51.9' N 35° 56.7' E	Mo.(U)R. period 16s	33 10	5	Red mast, white bands; 20.	
20792 E 5912.02	-Close N. of pier, head.	36° 52.0' N 35° 56.7' E	F.R.	33 10	3	Mast.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TURKEY-SOUTH COAST							
20804 <i>E 5912.5</i>	Toros Gubre, W. pier, head.	36° 54.3' N 35° 59.0' E	Fl.W. period 5s fl. 1s, ec. 4s	33 10	5	White framework tower, black band; 20.	
20805 <i>E 5912.6</i>	-E. pier, head.	36° 54.3' N 35° 59.5' E	Fl.W. period 5s fl. 1.5s, ec. 3.5s	33 10	5	White framework tower, black band; 20.	
20808 <i>E 5913</i>	Dortyol, T-head jetty, N. head.	36° 51.3' N 36° 07.8' E	Mo.(U).Y. period 16s fl. 0.6s, ec. 0.4s fl. 0.6s, ec. 0.4s fl. 1.5s, ec. 12.5s	13 4	5	Round tower, white band.	
20812 <i>E 5913.02</i>	-S. head.	36° 51.2' N 36° 07.9' E	Mo.(U).Y. period 16s fl. 0.6s, ec. 0.4s fl. 0.6s, ec. 0.4s fl. 1.5s, ec. 12.5s	13 4	5	Round tower, white band.	
20812.5 <i>E 5913.5</i>	-Yesilkoy.	36° 50.1' N 36° 09.9' E	Fl.(3)Y. period 10s		5		
20813 <i>E 5914</i>	-S. Mole.	36° 43.4' N 36° 11.0' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	33 10	10	White concrete tower; 20.	
20813.5 <i>E 5914.4</i>	-N. Mole.	36° 43.6' N 36° 11.0' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	33 10	9	White concrete tower; 26.	
20813.6 <i>E 5914.1</i>	-Tanker berth, dolphin No 1.	36° 43.8' N 36° 11.3' E	Fl.(2)Y. period 8s fl. 1s, ec. 1s fl. 1s, ec. 5s	30 9	5	Yellow round tower; 20.	
20813.61 <i>E 5914.2</i>	--Dolphin No 2.	36° 43.7' N 36° 11.2' E	Fl.(2)Y. period 8s fl. 1s, ec. 1s fl. 1s, ec. 5s	30 9	5	Yellow round tower; 20.	
ISKENDERUN:							
20813.7 <i>E 5914.65</i>	-Pirs Ekindzhiler.	36° 41.2' N 36° 11.5' E	Fl.(4)G. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 5s	49 15	5	Green round tower; 33.	
20813.8 <i>E 5914.66</i>	-Assan, jetty, head.	36° 41.0' N 36° 11.6' E	Fl.(4)G. period 15s	20 6	5		
20813.9 <i>E 5914.67</i>	-Yazici, jetty, head.	36° 40.8' N 36° 11.7' E	Fl.(3)G. period 6s fl. 0.4s, ec. 1s fl. 0.4s, ec. 1s fl. 0.4s, ec. 2.8s	33 10	3	Green framework tower, three white bands; 23.	
20814 <i>E 5914.7</i>	-Iskenderun Gubre Fab.	36° 39.8' N 36° 12.2' E	F.R.	75 23	1	Mast on dolphin; 59.	
20816 <i>E 5916</i>	-Roadstead , W. point.	36° 32.3' N 36° 03.1' E	Fl.W. period 3s	148 45	20	White concrete tower; 33.	Obscured 234°-shore.
20817 <i>E 5914.9</i>	-Kurtulus, jetty, head.	36° 37.3' N 36° 11.7' E	Fl.G. period 4s	26 8	5	Metal tower; 20.	
20820 <i>E 5915</i>	-Iskenderun Limani, W. breakwater, head.	36° 36.2' N 36° 11.1' E	Oc.G. period 3s lt. 2s, ec. 1s	43 13	6	White concrete tower; 33.	
20822 <i>E 5915.1</i>	--E. breakwater, head.	36° 36.0' N 36° 11.3' E	Fl.(2)R. period 5s fl. 1s, ec. 1s fl. 1s, ec. 2s	46 14	3	White metal mast; 39.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TURKEY-SOUTH COAST							
20824 <i>E 5915.22</i>	--Inner Harbor, E. breakwater, head.	36° 35.7' N 36° 11.0' E	Oc.R. period 3s fl. 2s, ec. 1s	30 9	4	White metal mast; 20.	
20824.5 <i>E 5915.02</i>	---W. breakwater, head.	36° 35.7' N 36° 11.0' E	Fl.(2)G. period 5s fl. 1s, ec. 1s fl. 1s, ec. 2s	20 6	2	White concrete tower; 16.	
20825 <i>E 5915.4</i>	--Fishing Harbor, N. breakwater.	36° 35.7' N 36° 10.7' E	Fl.G. period 3s fl. 0.5s, ec. 2.5s	26 8	3	White concrete tower; 16.	
20826 <i>E 5915.5</i>	---S. breakwater.	36° 35.7' N 36° 10.8' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	26 8	3	Concrete tower; 20.	
20832 <i>E 5917</i>	Resulhinzir.	36° 19.2' N 35° 46.9' E	Fl.(2)W. period 5s fl. 0.3s, ec. 1s fl. 0.3s, ec. 3.4s	357 109	22	White tower on building; 16.	

Section 14

Cyprus, Syria, Lebanon, Israel, Egypt, Libya and Tunisia

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CYPRUS							
20836 <i>E 5908</i>	Paphos Point.	34° 45.6' N 32° 24.4' E	Fl.W. period 15s fl. 1.5s, ec. 13.5s	118 36	17	White round stone tower; 66.	Visible 277°-141°.
20850 <i>E 5908.6</i>	Port entrance.	34° 45.2' N 32° 24.5' E	Q.R.	16 5	4		
20852 <i>E 5876.4</i>	-Akrotiri AVIATION LIGHT.	34° 35.4' N 32° 59.5' E	Mo.(AK)R.	121 37		Beacon.	Occasional.
20856 <i>E 5876</i>	Cape Gata.	34° 33.8' N 33° 01.5' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	190 58	15	White stone tower.	Visible 130°-189°.
20860 <i>E 5876.2</i>	Akrotiri, breakwater, head.	34° 34.3' N 33° 02.0' E	Fl.R. period 10s	36 11	5	Framework tower.	
20864 <i>E 5876.3</i>	-Harbor entrance, W. side.	34° 34.3' N 33° 01.9' E	Fl.G. period 10s	36 11	3	Framework tower.	
20868 <i>E 5876.6</i>	-Ro Ro Berth, NE. dolphin.	34° 34.1' N 33° 02.0' E	Fl.(2)R. period 10s fl. 0.7s, ec. 1.3s fl. 0.7s, ec. 7.3s	30 9	3	Dolphin; 33.	
20872 <i>E 5876.8</i>	--SW. dolphin.	34° 34.3' N 33° 02.2' E	Fl.R. period 10s fl. 0.7s, ec. 9.3s	23 7	3	Dolphin; 26.	
20876 <i>E 5880</i>	Limassol, NW. corner of S. quay.	34° 40.1' N 33° 02.5' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	39 12	7	Metal post; 39.	
20880 <i>E 5880.2</i>	-W. breakwater, head.	34° 39.9' N 33° 02.5' E	Fl.R. period 3s	39 12	6	Metal post; 39.	
20882 <i>E 5880.7</i>	Pyrgos Marina.	34° 42.3' N 33° 10.0' E	Fl.(2)W. period 10s	30 9	10	Metal mast; 13.	
LIMASSOL:							
20884 <i>E 5877.4</i>	-New port, N. breakwater, head.	34° 38.8' N 33° 01.4' E	Oc.G. period 7s	43 13	10	Metal column; 30.	
20888 <i>E 5877</i>	--S. breakwater, head.	34° 39.0' N 33° 02.0' E	Q.(6)R. period 10s	30 9	12	Metal post; 30.	
20892 <i>E 5878</i>	-Range, front.	34° 38.5' N 33° 00.7' E	F.G.	19 6	2	Metal framework tower, orange diamond daymark.	
20896 <i>E 5878.1</i>	--Rear, about 410 meters 248° from front.	34° 38.5' N 33° 00.3' E	Oc.G. period 5s lt. 4s, ec. 1s	39 12	2	Metal framework tower, orange diamond daymark.	
20901 <i>E 5881.1</i>	-S. breakwater, head.	34° 42.9' N 33° 19.1' E	Fl.R. period 5s				
20901.5 <i>E 5881.2</i>	-N. breakwater, head.	34° 43.0' N 33° 19.1' E	Oc.G. period 5s				
20904 <i>E 5882</i>	Cape Kiti, near extremity.	34° 48.8' N 33° 36.2' E	Fl.(3)W. period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 10.5s	67 20	13	White masonry tower.	
20908 <i>E 5882.5</i>	-Fishing harbor, E. breakwater.	34° 53.8' N 33° 38.3' E	Fl.(2)R. period 10s		4	Beacon.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CYPRUS							
20912 <i>E 5882.6</i>	--W. breakwater.	34° 54.0' N 33° 38.4' E	Fl.(2)G. period 10s		4	Beacon.	
LARNACA:							
20916 <i>E 5884</i>	-Main harbor, S. breakwater, head.	34° 55.3' N 33° 38.8' E	Fl.W.R. period 5s fl. 0.5s, ec. 4.5s	26	W. 10 R. 5		R. 075°-270°, W.-005°.
20920 <i>E 5884.4</i>	--N. breakwater, head.	34° 55.4' N 33° 38.6' E	F.G.	16	3		
20924 <i>E 5883.1</i>	-Yacht Harbor.	34° 55.1' N 33° 38.6' E	F.R.	20	1	Orange mast.	
20928 <i>E 5883.6</i>	--N. pier.	34° 55.0' N 33° 38.0' E	F.G.	10	3	1 Metal post.	
20940 <i>E 5888</i>	Cape Greco.	34° 57.2' N 34° 05.0' E	Fl.W. period 15s fl. 1.5s, ec. 13.5s	52	12	White masonry tower; 50.	
FAMAGUSTA:							
20944 <i>E 5892</i>	-SE. Bastion.	35° 07.4' N 33° 56.8' E	Fl.(2)W. period 15s	75	16	Stone tower; 36.	Visible 150°-290°.
20948 <i>E 5893</i>	-NW. of town.	35° 08.3' N 33° 55.5' E	Fl.W.R. period 7s fl. 0.8s, ec. 6.2s	60	W. 15 R. 11	White concrete tower, black stripes; 35.	W. 178°-216°, R.-313°.
20952 <i>E 5894</i>	-Outer breakwater, head.	35° 08.1' N 33° 56.6' E	Fl.(4)R. period 5s	33	4	White metal framework tower, concrete base; 20.	
20956 <i>E 5895</i>	-Inshore breakwater, head.	35° 08.0' N 33° 56.5' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	32	4	White metal framework tower, concrete base; 20.	
20960 <i>E 5896</i>	-E. mole, head.	35° 07.5' N 33° 56.7' E	Q.R.	30	2	Black metal column; 25.	
20961 <i>E 5897</i>	-Boghaz, Fisherman's shelter.	35° 18.8' N 33° 57.3' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	30	4	White round tower, red top; 10.	
20965 <i>E 5890</i>	Cape Elea.	35° 19.5' N 34° 02.8' E	Fl.W. period 10s fl. 1s, ec. 9s	102	5	White concrete tower, black stripes; 36.	
20968 <i>E 5900</i>	Klidhes Islands, Cape Andreas, off head.	35° 42.5' N 34° 36.4' E	Fl.(4)W. period 20s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 16.5s	66	14	White steel tower; 33.	
RACON			Z(- - • •)				
20970 <i>E 5901</i>	Yeni Erenkoy , fishing harbor.	35° 33.9' N 34° 13.0' E	Fl.(2)W. period 15s	72	15	White concrete tower; 10.	
20971 <i>E 5901.6</i>	Kyrenia.	35° 20.4' N 33° 19.8' E	Fl.(3)R. period 20s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 13.5s	59	20	Red and white framework tower on white building; 23.	
20972 <i>E 5902</i>	-Marina breakwater.	35° 20.6' N 33° 19.5' E	Fl.G. period 5s	33	4	White metal framework tower; 26.	
20973 <i>E 5902.6</i>	-Ferry harbor, N. breakwater, head.	35° 20.6' N 33° 20.2' E	Fl.G. period 3s	39	4	White concrete tower; 26.	
20973.5 <i>E 5902.4</i>	--S. breakwater, head.	35° 20.5' N 33° 20.1' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	39	4	White concrete tower; 26.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CYPRUS							
20976 E 5904	Cape Kormakiti.	35° 24.0' N 32° 55.2' E	Fl.(2)W. period 20s fl. 1s, ec. 2s fl. 1s, ec. 16s	100 30	15	White steel framework tower; 73.	
KARAVOSTASI:							
20980 E 5906	-Xeros Pier, root.	35° 08.3' N 32° 50.2' E	Fl.R. period 3s fl. 0.2s, ec. 2.8s	62 19	7	Gray steel tripod on building; 23.	
20984 E 5907	-W. pier, head.	35° 08.8' N 32° 48.9' E	Fl.W. period 5s	60 18	5		
20985 E 5907.5	Moulia Rocks.	34° 43.4' N 32° 26.1' E	Fl.(2)W. period 10s	20 6	6		
20986 E 5907.6	Cape Akamas.	35° 05.5' N 32° 16.9' E	Fl.(2)W. period 15s	692 211	17	Post; 10.	
SYRIA							
20988 E 5919	Ra's al Basit.	35° 51.8' N 35° 48.0' E	Fl.W. period 4s fl. 1s, ec. 3s	246 75	14	White tower; 39.	
20992 E 5919.4	Ra's al Fasuri.	35° 40.3' N 35° 46.3' E	Q.(3)W. period 5s fl. 0.3s, ec. 0.7s fl. 0.3s, ec. 0.7s fl. 0.3s, ec. 2.7s	243 74	5	White tower, black bands.	
20996 E 5920	Ra's Iban Hani.	35° 35.2' N 35° 43.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	59 18	12	White tower.	
21004 E 5921.6	Al Ladhqiyyah, breakwater, head.	35° 32.0' N 35° 45.3' E	L.F.I.G. period 4s	13 4	5	Green pylon.	
21005 E 5921.5	-Range, front.	35° 31.8' N 35° 46.1' E	Fl.(2)R. period 5s		6		Temporarily extinguished.
21005.1 E 5921.51	--Rear, 500 meters 115°36' from front.	35° 31.7' N 35° 46.4' E	Fl.(2)R. period 5s		6		Temporarily extinguished.
21006 E 5921.4	-El Burj.	35° 30.9' N 35° 46.1' E	Fl.(2)W. period 9s	72 22	10	White tower; 16.	Temporarily extinguished.
21007 E 5921.71	-Marina, S. breakwater, head.	35° 32.5' N 35° 45.7' E	Fl.G. period 5s				
21007.1 E 5921.7	--N. breakwater, head.	35° 32.5' N 35° 45.8' E	Fl.R. period 3s				
JABLAH (DJEBLE):							
21012 E 5922	-W. breakwater, head.	35° 21.6' N 35° 55.0' E	Q.G.	23 7	4	Black pylon.	Fishing.
21016 E 5922.2	-E. breakwater, head.	35° 21.6' N 35° 55.1' E	Q.R.	20 6	5	Black pylon.	Fishing.
BANIYAS:							
21020 E 5923	-Boat harbor, W. breakwater, head.	35° 13.4' N 35° 56.6' E	Fl.W. period 5s	19 6	4	Black pylon.	
21024 E 5923.2	--E. breakwater, head.	35° 13.4' N 35° 56.7' E	Fl.R. period 10s	19 6	3	Black pylon.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SYRIA							
21032 <i>E 5923.5</i>	Baniyas.	35° 08.8' N 35° 55.2' E	Fl.(3)W.R. period 17s fl. 0.4s, ec. 2s fl. 0.4s, ec. 2s fl. 0.4s, ec. 11.8s	321 98	W. 16 R. 12	White concrete tower; 36.	W. 015°-175°, R.-195°.
TARTUS:							
21039 <i>E 5923.7</i>	-W. breakwater, head.	34° 54.6' N 35° 51.3' E	Fl.G. period 4s			Green tower, white bands.	
21040 <i>E 5923.8</i>	-E. breakwater, head.	34° 54.6' N 35° 51.6' E	Fl.R. period 4s	23 7	5	Black metal framework tower.	
21044 <i>E 5924</i>	Jazirat Arwad.	34° 51.4' N 35° 51.3' E	Fl.W. period 5s fl. 1s, ec. 4s	66 20	12	White tower on fort; 13.	
21045 <i>E 5924.2</i>	-E. jetty, head.	34° 51.4' N 35° 51.7' E	Q.G.	10 3	1	Black pylon.	
21045.5 <i>E 5924.3</i>	-S. jetty, head.	34° 51.4' N 35° 51.7' E	Q.R.	10 3	1	Black pylon.	
LEBANON							
TARABULUS (TRIPOLI):							
21048 <i>E 5926</i>	-Jazirat Ramkin.	34° 29.8' N 35° 45.6' E	Fl.W. period 3.3s fl. 0.8s, ec. 2.5s	72 22	18	White tower; 16.	
21052 <i>E 5927</i>	--NE. head.	34° 28.3' N 35° 49.9' E	Fl.G. period 4.5s	33 10	5		
21054 <i>E 5927.2</i>	--E. breakwater, head.	34° 28.0' N 35° 50.0' E	Fl.R.				
21060 <i>E 5927.6</i>	-Tower of Lions.	34° 27.0' N 35° 49.8' E	F.R.		3	Tower; 69.	Occasional.
21064 <i>E 5929</i>	Kalmoun.	34° 23.2' N 35° 47.1' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	16 5	3	Black and white pylon.	
21068 <i>E 5929.2</i>	Anfan.	34° 21.6' N 35° 44.0' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	16 5	3	Black and white pylon.	
21072 <i>E 5929.4</i>	Ra's ash Shaq'ah.	34° 19.5' N 35° 43.4' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	10 3	3	Black and white pylon.	
21076 <i>E 5929.6</i>	Al Batrun.	34° 15.0' N 35° 39.0' E	Fl.G. period 2s fl. 0.3s, ec. 1.7s	16 5	3	Black and white pylon.	
21080 <i>E 5929.8</i>	Fad'us.	34° 14.0' N 35° 39.0' E	Fl.R. period 2s fl. 0.3s, ec. 1.7s	23 7	3	Black and white pylon.	
21084 <i>E 5930</i>	Ra's Amshit.	34° 09.0' N 35° 37.0' E	Fl.W. period 2s fl. 0.3s, ec. 1.7s	20 6	3	Black and white pylon.	
21088 <i>E 5931.2</i>	Jubayl, E. side of entrance.	34° 06.0' N 35° 39.0' E	Fl.G. period 3s fl. 0.3s, ec. 2.7s	23 7	5	Framework tower.	A light, Fl.R. 3s, is shown from side of old wall.
21092 <i>E 5932</i>	Tabarja.	34° 02.4' N 35° 37.2' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	33 10	5	Black and white pylon.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
LEBANON							
PORT DE JOUNIE:							
21094 <i>E 5933</i>	-Yacht Basin, mole, head.	33° 59.3' N 35° 37.2' E	Fl.(2)G. period 3s fl. 0.4s, ec. 0.6s fl. 0.4s, ec. 1.6s	33 10	8	White metal framework tower, black bands.	
21096 <i>E 5933.1</i>	--Quay at entrance.	33° 59.5' N 35° 37.0' E	Fl.R. period 3s fl. 0.4s, ec. 2.6s	26 8	5	Black and white pylon.	
21104 <i>E 5933.3</i>	-Naval basin, jetty, head.	33° 59.1' N 35° 37.1' E	Fl.G. period 2s fl. 0.4s, ec. 1.6s	33 10	8	Black and white pylon.	
21116 <i>E 5934</i>	-Ra's Bayrut.	33° 53.8' N 35° 28.3' E	Fl.(2)W. period 10s fl. 0.1s, ec. 2.4s fl. 0.1s, ec. 7.4s	171 52	22	Gray tower, black bands; 89.	F.R., F.W. lights on radio mast 0.6 miles ENE.
BAYRUT (BEIRUT):							
21120 <i>E 5935</i>	-N. mole.	33° 54.6' N 35° 31.4' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	46 14	8	Black and white pylon.	
21121 <i>E 5935.5</i>	--NE end.	33° 55.0' N 35° 32.0' E	Fl.(2)G.			Metal tower.	
21122 <i>E 5935.8</i>	-Breakwater, W. head.	33° 54.7' N 35° 32.0' E	Fl.(3)R. period 3s			Red metal tower.	
21122.2 <i>E 5935.9</i>	--Elbow.	33° 54.7' N 35° 32.1' E	Mo.(D)Y.			Metal tower.	
21122.4 <i>E 5935.95</i>	--E. head.	33° 54.7' N 35° 32.3' E	Fl.G. period 2s			Green metal tower.	
21128 <i>E 5938.1</i>	-Airport AVIATION LIGHT.	33° 50.0' N 35° 29.0' E	Mo.(BL)G. period 12s	141 43	17	At hangar.	
21132 <i>E 5938</i>	--AVIATION LIGHT.	33° 49.7' N 35° 29.2' E	Al.W.G. period 4s	138 42	17	Control tower.	
SAYDA (SIDON):							
21140 <i>E 5940</i>	-Az Zirah.	33° 34.3' N 35° 22.0' E	Fl.R. period 3s fl. 0.3s, ec. 2.7s	33 10	6	White pylon; 13.	
21148 <i>E 5940.5</i>	-Port entrance, S. side.	33° 34.1' N 35° 22.2' E	Lit period 2s				
AZ ZAHRANI:							
21152 <i>E 5941</i>	-Oil Terminal.	33° 30.1' N 35° 20.5' E	Fl.R. period 2s	184 56		Red and white framework tower.	F.R. lights shown 14 and 27 meters below this light on same tower.
21156	-Range No. 1, front.	33° 30.0' N 35° 20.0' E	F.G.	46 14			4 floodlights are shown NE. while ships are mooring.
21160	--Rear, about 544 meters 179° from front.	33° 00.1' N 35° 20.4' E	F.G.	64 20			Shown on approach to No. 1 berth.
21164	-Range No. 2, front.	33° 30.0' N 35° 20.0' E	F.R.	51 16			
21168	--Rear, about 466 meters 180°30' from front.	32° 29.9' N 35° 20.5' E	F.R.	82 25			Shown on approach to No. 2 berth.
21172	-Range No. 3, front.	33° 31.0' N 35° 21.0' E	F.G.	42 13			

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
LEBANON							
21176	--Rear, about 430 meters 180° from front.	33° 00.1' N 35° 20.7' E	F.G.		47 14		Shown on approach to No. 3 berth.
21180	--Range No. 4, front.	33° 30.0' N 35° 21.0' E	F.R.		54 16		
21184	--Rear, about 576 meters 180° from front.	33° 00.1' N 35° 20.8' E	F.R.		150 46		Shown on approach to No. 4 berth.
21188 <i>E 5941.8</i>	As Sarafand.	33° 26.0' N 35° 16.1' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s		16 5	3 Black and white pylon.	
SUR (TYRE):							
21192 <i>E 5942</i>	--On old fort NW. of town.	33° 16.6' N 35° 11.6' E	Fl.(3)W. period 12s fl. 0.3s, ec. 1.8s fl. 0.3s, ec. 1.8s fl. 0.3s, ec. 7.5s		49 15	12 White tower; 20.	
21196 <i>E 5943.2</i>	--Port entrance, N. side.	33° 17.0' N 35° 11.0' E	Fl.G. period 2s fl. 0.5s, ec. 1.5s		21 6	3	
21200 <i>E 5943</i>	--Port entrance, S. side.	33° 16.5' N 33° 11.5' E	Fl.R. period 2s fl. 0.5s, ec. 1.5s		21 6	3	
ISRAEL							
21202 <i>E 5943.7</i>	Tekhelet Island.	33° 04.8' N 35° 05.7' E	Fl.R. period 10s		3 1	White pillar.	
21204 <i>E 5944</i>	Akko (Acre), S. of town.	32° 55.1' N 35° 04.0' E	Fl.(2)W. period 7s		51 16	10 Black and white checkered tower; 33.	
21208 <i>E 5944.2</i>	--Akko Harbor, breakwater, head.	32° 55.1' N 35° 04.2' E	Q.(3)R. period 5s			1 Red tower, white bands with gallery.	
21209 <i>E 5944.3</i>	--Manara Rock.	32° 55.1' N 35° 04.3' E	Q.(3)G. period 5s			3 Green tower, white bands with gallery.	
21212 <i>E 5945</i>	Har Karmel (Mount Carmel).	32° 49.7' N 34° 58.1' E	Fl.W. period 5s fl. 0.3s, ec. 4.7s		587 179	30 White round tower and building; 67.	Partially obscured 235°-236°, obscured 263°-shore.
HAIFA:							
21216 <i>E 5946</i>	--Main breakwater, head.	32° 49.7' N 35° 01.0' E	Fl.(2)G. period 4s		49 15	2 Framework tower.	
21217 <i>E 5946.05</i>	--Middle.	32° 49.6' N 35° 00.7' E	Fl.(3)W. period 10s		36 11	Concrete base, green metal pole; 16.	
21218 <i>E 5946.1</i>	--Elbow.	32° 49.5' N 35° 00.5' E	Iso.W. period 5s		36 11	Concrete base, green metal pole; 23.	2 Q.G. lights mark dolphins 485 meters and 765 meters W.
21220 <i>E 5947</i>	--Lee breakwater, head.	32° 49.4' N 35° 00.5' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s		46 14	5 White concrete tower; 31.	
21221 <i>E 5949.3</i>	--Karmel Container Terminal, Basin.	32° 48.9' N 35° 00.8' E	Q.Bu.		36 11	Concrete base, green metal pole; 23.	
21221.4 <i>E 5949</i>	--W. corner.	32° 49.2' N 35° 00.8' E	Fl.(2)R. period 5s		20 6	Red and white metal pole; 10.	
21221.6 <i>E 5949.5</i>	--E. corner.	32° 49.3' N 35° 00.9' E	Fl.(3)G. period 10s		20 6	Green and white metal pole; 10.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ISRAEL							
21228 E 5952	--N. breakwater, head.	32° 49.0' N 35° 01.4' E	Q.(2)R. period 5s	33 10	6	Gray metal framework tower.	
	-Qishon (Kishon):						
21232 E 5953	--S. breakwater, head.	32° 49.0' N 35° 01.4' E	Q.(2)G. period 5s	20 6	4	Gray metal framework tower.	
21232.5 E 5952.5	---NE.	32° 49.0' N 35° 01.4' E	FI.G.	10 3	1	White metal post; 10.	
21233 E 5953.1	--RoRo pier.	32° 48.5' N 35° 01.7' E	Q.G.			Blue post.	
21234 E 5954	Port of Hadera, jetty, head.	32° 28.2' N 34° 51.8' E	F.R.	62 19	2		Lights of port difficult to distinguish against shore lights.
21234.2 E 5954.5	-W. breakwater, head.	32° 28.4' N 34° 52.7' E	FI.G. period 2s	30 9	3		
21234.4 E 5954.6	-E. breakwater, head.	32° 28.4' N 34° 52.8' E	FI.R. period 5s	30 9	2		
21236 E 5956	Mikhmoret, at Nautical School.	32° 24.2' N 34° 51.9' E	AI.FI.W.R. period 15s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 9.5s	46 14	10	On roof of concrete building.	
21238 E 5957	Herzlia Marina, breakwater.	32° 10.0' N 34° 47.8' E	FI.G. period 5s	49 15	12		FI.R. 5s marks lee breakwater.
TEL AVIV:							
21240 E 5958.4	-Power station, breakwater.	32° 06.6' N 34° 46.4' E	FI.(2)R. period 5s fl. 0.4s, ec. 1s fl. 0.4s, ec. 3.2s	29 9	2	White metal column; 13.	
21252 E 5959.4	-Marina, breakwater.	32° 05.3' N 34° 46.0' E	FI.(5)G. period 20s	33 10		Red and white striped pole.	
JAFFA:							
21256 E 5963	-Breakwater, head.	32° 03.3' N 34° 45.0' E	FI.G. period 4s fl. 0.5s, ec. 3.5s		7		
21257 E 5962.4	-Range, front.	32° 03.3' N 34° 45.1' E	F.R.				Occasional.
21258 E 5962.5	--Rear, 55 meters 129° from front.	32° 03.3' N 34° 45.1' E	F.R.				Occasional.
21259 E 5964	-Sela Andromeda, SE.	32° 03.4' N 34° 45.1' E	Q.Y.		2	Orange pillar.	
21259.5 E 5965	Kefar HaNagid AVIATION LIGHT.	31° 53.6' N 34° 45.4' E	FI.R. period 1.5s	614 187		Radio mast; 384.	
2 F.R.							
21260 E 5967	Ashdod.	31° 48.8' N 34° 38.7' E	FI.(3)W. period 20s fl. 0.3s, ec. 3.7s fl. 0.3s, ec. 3.7s fl. 0.3s, ec. 11.7s	249 76	22	Concrete tower, upper half red and white checkered; 138.	
21264 E 5968	-Main breakwater.	31° 50.7' N 34° 38.3' E	FI.G. period 2s		7		
21268 E 5969	-Lee breakwater.	31° 49.9' N 34° 38.3' E	FI.R. period 2s		7		
21269 E 5969.5	-Central jetty.	31° 50.6' N 34° 39.2' E	FI.W. period 5s	10 3	2		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ISRAEL							
21272 E 5970	Tel Ashqelon.	31° 38.2' N 34° 32.5' E	Fl.(2)W. period 10s fl. 0.2s, ec. 1.4s fl. 0.2s, ec. 8.2s		15		
21272.1 E 5970.5	-Marina, outer breakwater.	31° 41.1' N 34° 33.4' E	Fl.(2)G. period 5s		7	White round column.	
21272.15 E 5970.6	--Inner breakwater.	31° 41.0' N 34° 33.4' E	Fl.R.			White round column.	
21272.2 E 5971	-Harbor, outer breakwater.	31° 38.4' N 34° 31.2' E	Fl.(2)G. period 6s		4		
21272.3 E 5971.1	--Inner breakwater.	31° 38.4' N 34° 31.3' E	Fl.(2)R. period 10s				
21272.35 E 5971.15	---S. end.	31° 38.3' N 34° 31.3' E	Fl.R. period 4s				
21272.4 E 5971.3	--S. breakwater.	31° 38.2' N 34° 31.3' E	Fl.G. period 4s				
21272.5 E 5971.5	-Coal Jetty, head.	31° 38.1' N 34° 29.6' E	FR.				
21273 E 7700	Mari-B.	31° 44.1' N 34° 17.7' E	Mo.(U)W.			Platform.	Horn: Mo.(U).

EGYPT							
21274 E 5973	El Arish.	31° 08.7' N 33° 48.9' E	Fl.W. period 5s	128 39	18	White concrete tower, black bands.	
	RACON		G(- - •)				
	BUR SA'ID (PORT SAID):						
21276 E 5978.2	-Port Said.	31° 16.3' N 32° 17.6' E	Fl.W. period 10s	154 47	20	White daymark on framework tower.	Radiobeacon. DGPS Station.
	-RACON		TS(- •••)				(3 & 10 cm)
21284 E 5980	-Entrance Range, front.	31° 15.0' N 32° 18.2' E	FR.	118 36	6	Gray metal framework tower, triangular daymark, point up; 131.	Visible 207°-229°.
21288 E 5980.1	--Rear, 1100 meters 217°40' from front.	31° 14.5' N 32° 17.8' E	Oc.(2)R. period 10s lt. 1.5s, ec. 1s lt. 6.5s, ec. 1s	151 46	7	Gray metal framework tower, spherical daymark; 177.	Visible 207°-229°.
21292 E 5979	-E. breakwater, head.	31° 16.6' N 32° 19.8' E	Oc.R. period 6s			Metal framework tower.	
21292.5 E 5978.6	-El Bahar Tower.	31° 18.1' N 32° 21.6' E	Iso.W. period 2s	138 42	15	White framework tower, red bands; 138. Floodlit.	Horn.
	-RACON						
	SUEZ CANAL:						
	The Suez Canal is marked by articulated beacons.						
21293 E 5983	-Breakwater, E. side.	31° 15.1' N 32° 21.6' E	F.W.			Metal tower, red & white horizontal stripes.	
Visibilities (ranges) of lights in Egypt are undependable.							

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
EGYPT							
21294 <i>E 5983.2</i>	--W. side.	31° 14.6' N 32° 20.5' E	F.W.			Metal tower, green & white horizontal stripes.	
21300 <i>E 5985</i>	-Bur Sa'id Bypass, E. side.	31° 13.4' N 32° 20.7' E	Fl.(2)R. period 10s	82	25	Black and gray metal tower; 75.	
21304 <i>E 5985.2</i>	--W. side.	31° 13.5' N 32° 20.5' E	Fl.(2)G. period 10s	82	25	Black and gray metal tower; 131.	
MASABB DUMYAT:							
21308 <i>E 6156</i>	-Dumyat (Damietta).	31° 31.4' N 31° 50.9' E	Fl.(2)W. period 30s	154	47	Framework tower, white dwelling, white daymark.	Radiobeacon.
	-RACON		DA(- • • • -)		20		(3 & 10 cm)
21312 <i>E 6158</i>	--W. side of entrance.	31° 31.7' N 31° 50.6' E	Fl.G. period 10s	46	14	Green concrete tower; 33.	
21316 <i>E 6158.5</i>	-El Ghirby.	31° 30.1' N 31° 50.0' E	Fl.G. period 3s	12	4	White pyramidal structure, black bands, concrete base; 13.	
21317 <i>E 6159</i>	Damietta Port Range, front.	31° 27.7' N 31° 45.1' E	F.R.	108	33	Round metal tower, rectangular daymark.	
21317.1 <i>E 6159.1</i>	-Rear, 170 meters 191°30' from front.	31° 27.6' N 31° 45.1' E	F.R.	135	41	Metal framework tower, rectangular daymark.	
21318 <i>E 6159.3</i>	-W. breakwater.	31° 29.6' N 31° 45.3' E	Fl.G. period 5s	33	10	Green metal tower; 33.	
21318.5 <i>E 6159.4</i>	-E. breakwater.	31° 29.4' N 31° 45.7' E	Fl.(2)R. period 10s fl. 1s, ec. 1s fl. 1s, ec. 7s	33	10	Red metal tower; 33.	
21319 <i>E 6159.6</i>	--No. 37.	31° 28.1' N 31° 45.7' E	Fl.Bu. period 2.5s fl. 0.5s, ec. 2s			7 Tower; 10.	
21320 <i>E 6162</i>	Burullus.	31° 36.0' N 31° 04.8' E	Fl.(3)W. period 20s	154	47	White daymark on framework tower.	Radiobeacon.
	RACON		BR(- • • • • - •)				
21322	Rashid Gas Platform RACON.	31° 50.8' N 30° 38.1' E	G(- - •)				(3 & 10cm)
21324 <i>E 6166</i>	Raschid (Rosetta).	31° 26.6' N 30° 25.8' E	Fl.(4)W. period 20s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 10.8s	154	47	White daymark on framework tower; 49.	Aeromarine light. Radiobeacon.
	RACON		TA(- • -)				
21325 <i>E 6167</i>	Idku LNG Port, detached breakwater, NE.	31° 22.5' N 30° 17.7' E	Q.G.	36	11	STARBOARD (A) G, post, topmark.	
21325.1 <i>E 6167.1</i>	-Detached breakwater, SW.	31° 22.1' N 30° 17.5' E	Q.(6)+L.Fl.W. period 15s	36	11	S. CARDINAL YB, post, topmark.	
21326	-N. Abu Qir Gas Field Platform, NAQ P-1D.	31° 35.8' N 30° 06.7' E	Mo.(U)W. period 15s				
	-RACON		Q(- - • -)				(3 & 10 cm)
21328 <i>E 6168</i>	Geziret Disuqi, summit.	31° 21.5' N 30° 06.4' E	Fl.W. period 5s	72	22	White steel post, red top, on concrete base; 33.	
	RACON		D(- • •)				(3 & 10cm)

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(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
EGYPT							
21330 <i>E 6168.2</i>	Abu Qir, breakwater, head.	31° 19.9' N 30° 05.0' E	Oc.W. period 3s lt. 2s, ec. 1s	56 17	5		
21331 <i>E 6168.3</i>	-Entrance Range, front.	31° 18.6' N 30° 04.9' E	F.R.W. (vert.)	66 20	5	Red and white metal tower, black bands, white triangular daymark, point up; 49.	
21331.1 <i>E 6168.31</i>	--Rear, 350 meters 195° from front.	31° 18.5' N 30° 04.8' E	F.G.W. (vert.)	75 23	5	Red and white metal tower, black bands, white triangular daymark, point down; 59.	
21331.5 <i>E 6168.4</i>	-S. building.	31° 17.7' N 30° 04.6' E	F.I.R. period 2s	85 26	2	Column.	
AL ISKANDARIYAH (ALEXANDRIA):							
21332 <i>E 6171</i>	-Eastern Harbor, W. breakwater, head.	31° 12.9' N 29° 53.5' E	F.I.G. period 5s	69 21	8	Green steel post on stone base; 33.	
21336 <i>E 6170</i>	--Al Silsila breakwater, W. head.	31° 12.9' N 29° 53.7' E	F.I.R. period 5s	46 14	5	Red concrete tower; 19.	
21340 <i>E 6171.4</i>	-Qaitbai Fort.	31° 12.9' N 29° 53.1' E	F.Y.				
21344 <i>E 6173</i>	-Ra's at Tin.	31° 11.7' N 29° 51.7' E	Fl.(2+1)W. period 30s fl. 0.2s, ec. 4s fl. 0.2s, ec. 12.7s fl. 0.2s, ec. 12.7s	171 52	21	White stone tower, black bands; 180.	F.R. 27m on radio masts 0.2 and 0.3 mile NE. Storm signals.
	-RACON		X(- • • -)				(3 & 10 cm)
21356 <i>E 6176</i>	-Great Pass, entrance Range, front.	31° 09.3' N 29° 50.8' E	2 F.R. (vert.)	58 18	5	White round tower, red stripes; 65.	10 meters apart. Visible 050°-150°. DGPS Station.
			F.W.	43 13	5		Visible 150°-050°.
21360 <i>E 6176.1</i>	--Al Maks, rear, 740 meters 113° from front.	31° 09.1' N 29° 51.2' E	2 F.W. (vert.)	124 38	10	White round tower, black top with ball and spike daymark.	9 meters apart. Visible 095°30'-169°30'.
21370 <i>E 6174</i>	-Great Pass.	31° 10.0' N 29° 48.5' E	Fl.W. period 4s fl. 1s, ec. 3s	69 21	16	White round concrete tower, red and green bands.	
	RACON		M(- -)				
21376 <i>E 6176.5</i>	--N. shoal, beacon.	31° 10.0' N 29° 49.2' E	F.I.R. period 5s		5	Red square metal tower, white bands; 23.	
21380 <i>E 6180</i>	-Outer Harbor, outer breakwater, head.	31° 09.9' N 29° 50.8' E	F.I.R. period 3s	66 20	10	Red metal tower, white stripes.	
21384 <i>E 6182</i>	--Quarantine breakwater, head.	31° 09.9' N 29° 51.1' E	F.I.G. period 3s	66 20	10	Green metal tower, white stripe.	
21388 <i>E 6183</i>	--Petroleum harbor, W. head.	31° 10.0' N 29° 51.2' E	F.I.G. period 5s	18 5	2		
21390 <i>E 6183.3</i>	---E. head.	31° 10.0' N 29° 51.3' E	F.I.R. period 5s	16 5	2		
21400 <i>E 6186.5</i>	-Inner harbor, coal quay, S. head.	31° 10.9' N 29° 52.2' E	Fl.(2)R. period 10s	23 7		White and red framework tower; 13.	
21408 <i>E 6189</i>	--Arsenal Basin, W. mole, head.	31° 11.8' N 29° 52.6' E	F.I.R. period 3s	59 18		White and red metal framework tower.	
21412 <i>E 6190</i>	---Arsenal Quay.	31° 11.8' N 29° 52.7' E	F.I.G.				

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(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
EGYPT							
21412.5 <i>E 6173.5</i>	-El Agamy.	31° 08.9' N 29° 47.2' E	Fl.(2)W. period 15s	56 17	15	White stone tower, black stripes; 46.	
	RACON		O(---)				(3 & 10 cm)
21413 <i>E 6191</i>	-El Dikhelia Range, front.	31° 08.4' N 29° 48.6' E	Fl.W. period 3s fl. 1s, ec. 2s	45 14	14	White round metal beacon, black bands.	
21413.5 <i>E 6191.1</i>	--Rear, 650 meters 173° from front.	31° 08.0' N 29° 48.7' E	Iso.W. period 2s	102 31	17	Yellow concrete tower, red bands.	
21413.7 <i>E 6191.2</i>	--Breakwater, head.	31° 09.3' N 29° 48.3' E	Fl.W.	30 9	5		
21414 <i>E 6191.3</i>	--Jetty, head.	31° 08.4' N 29° 48.6' E	Fl.R. period 4s fl. 1s, ec. 3s	33 10	2	Metal beacon; 16.	
21416 <i>E 6179</i>	-Al Dukhaylah AVIATION LIGHT.	31° 07.7' N 29° 48.1' E	Al.Fl.W.G.	30 9			
21418 <i>E 6193</i>	Ra's el Shaqiq.	30° 57.3' N 28° 49.7' E	Fl.(3)W. period 15s	154 47	20	White daymark on framework tower; 49.	Radiobeacon.
	RACON		Q(---)				
21420 <i>E 6194</i>	Ra's Alam ar Rum.	31° 21.6' N 27° 20.4' E	Fl.W. period 5s	157 48	12	White steel post, red band, on concrete base; 33.	
	RACON		Z(---)				
21422 <i>E 6198</i>	-Mersa Matruh, entrance, W. side.	31° 22.1' N 27° 13.7' E	Q.G.	20 6	5	Green round fiberglass tower.	
21422.1 <i>E 6198.1</i>	--E. side.	31° 22.1' N 27° 13.8' E	Q.R.	20 6	5	Red round fiberglass tower.	
21424 <i>E 6204</i>	Sidi Barrani (Ras Haleima).	31° 37.3' N 25° 54.5' E	Fl.(2)W. period 15s	66 20	12	White steel post, red top, on concrete base; 33.	
	RACON		K(- • -)				
21428 <i>E 6206</i>	As Sallum, pier, head.	31° 33.7' N 25° 09.8' E	Fl.(3)W. period 20s	46 14	12	White steel post, black top, on concrete base; 33.	
	RACON		M(---)				
Visibilities (ranges) of lights in Egypt are undependable.							
LIBYA							
21432 <i>E 6210</i>	Bardiyah (Bardia).	31° 45.6' N 25° 06.5' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	322 98	12	Metal framework structure, black and white concrete base.	
21436 <i>E 6214</i>	Ra's Azzaz, on point.	31° 58.2' N 24° 58.8' E	Fl.W. period 3s	52 16	10	White iron framework structure, black bands; 36.	
MARSA TUBRUQ (TOBRUK):							
21440 <i>E 6221</i>	-On the point.	32° 04.4' N 24° 00.6' E	Fl.G. period 5s fl. 1s, ec. 4s	20 6	6	White pyramidal tower with black diagonal stripes; 16.	
21444 <i>E 6224</i>	-Range, front.	32° 03.3' N 24° 00.9' E	Q.W.	69 21	7	Metal framework tower, white diamond daymark.	Occasional.
21448 <i>E 6224.1</i>	--Rear, 314 meters 224°48' from front.	32° 03.2' N 24° 00.8' E	Iso.W. period 2s	85 26	7	Metal framework tower, white diamond daymark.	<i>Temporarily extinguished (1996).</i> Occasional.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
LIBYA							
21450 E 6226	-Marsa El Hariga, oil terminal, E. end.	32° 03.7' N 24° 00.3' E	F.R.	30 9	2	Dolphin.	
21450.1 E 6226.2	--Berth No. 2, E. end.	32° 03.7' N 24° 00.2' E	2 F.G. (vert.)	33 10	2		2 meters apart.
21450.2 E 6226.4	---W. end.	32° 03.7' N 24° 00.2' E	2 F.G. (vert.)	33 10	2		2 meters apart.
21451 E 6227	--T-head pier, center.	32° 03.8' N 23° 59.2' E	2 F.G.		2		2 F.R. mark E. and W. ends of jetty head.
21452 E 6220	-Main light.	32° 05.3' N 23° 59.4' E	Fl.(3)W. period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9.5s	174 53	15	Metal framework tower on black and white checkered building.	<i>Temporarily extinguished (1996).</i>
21456 E 6228	-Quay No. 4, extension.	32° 04.6' N 23° 58.9' E	Q.R.				
21464 E 6230	-Quay No. 1, W. end.	32° 04.8' N 23° 58.6' E	Oc.R.G. period 15s lt. 10s, ec. 5s				G. 301°-026°, R.-181°.
21468 E 6234	Ra's at Tin.	32° 37.3' N 23° 07.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	110 34	10	Black iron framework structure; 22.	
DARNAH (DERNA):							
21472 E 6236	-Derna.	32° 44.5' N 22° 41.0' 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	197 60	20	White tower, black stripes; 34.	
21476 E 6238	-N. mole, head.	32° 45.9' N 22° 39.8' E	Q.G.	46 14	8		
21480 E 6239	-S. mole, head.	32° 45.9' N 22° 39.7' E	Q.R.	46 14	8		
21484 E 6242	Ra's al Hilal.	32° 55.4' N 22° 10.7' E	Fl.(3)W. period 17.5s fl. 0.5s, ec. 3s fl. 0.5s, ec. 3s fl. 0.5s, ec. 10s	72 22	10	Black and white checkered pyramid; 39.	Obscured on bearings less than 100°.
21488 E 6244	Apollonia.	32° 54.1' N 21° 58.0' E	Fl.W. period 6s fl. 1s, ec. 5s	82 25	11	White concrete pyramidal tower; 23.	
21492 E 6246	Ra's Amir.	32° 56.2' N 21° 42.5' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	95 29	11	White concrete pyramidal tower with black bands; 36.	
21496 E 6248	Tulmaythah, summit of point.	32° 42.9' N 20° 56.7' E	Fl.(3)W. period 10s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	69 21	12	Black metal framework tower on white concrete base with black bands; 52.	Reserve light of low power, F.W., F.R. and F.L.R. lights on radio tower exist 20M. SW.
21500 E 6250	Sidi Suwaykir.	32° 20.0' N 20° 17.3' E	Fl.(4)W. period 15s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 10s	69 21	13	White square tower; 49.	
21504 E 6251.5	-Ras el Mingar, jetty extension.	32° 11.0' N 20° 05.2' E	Fl.W. period 3s	42 13	5	On mooring dolphin.	
21508 E 6251.8	Banghazi.	32° 07.4' N 20° 03.7' E	Fl.W. period 3s	133 41	17	Brown water tower; 73.	F.R. and F.L.R. lights on radio mast 2.5 km. 130°30'. F.R. light on radio mast 4.54 km. 203°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
LIBYA							
21509 <i>E 6252</i>	-Main harbor, N. breakwater, head.	32° 06.9' N 20° 01.6' E	Fl.R. period 3s fl. 1s, ec. 2s	43 13	6	Red and white structure.	
21509.1 <i>E 6252.2</i>	--W. breakwater, N. head.	32° 06.9' N 20° 02.0' E	Fl.G. period 3s fl. 1s, ec. 2s	43 13	6	White tower, black bands.	
21510 <i>E 6252.4</i>	--	32° 07.1' N 20° 02.5' E	Dir.F.W.R.G.	43 13	W. 14 R. 9 G. 9	Red and white structure.	G. 062°30'-064°42', W.-067°12', R.-069°30'.
21511 <i>E 6252.6</i>	--No. 4 Berth.	32° 06.8' N 20° 02.4' E	Q.R.	16 5	1		
21511.5 <i>E 6252.7</i>	--No. 3 Berth.	32° 06.9' N 20° 02.5' E	Q.W.	16 5	3		
21512 <i>E 6253</i>	--Central Mole, head.	32° 07.1' N 20° 02.7' E	Q.G.	16 5	1		
21516 <i>E 6253.2</i>	-Inner Harbor, Italia Mole, head.	32° 06.9' N 20° 03.0' E	Fl.R. period 3s fl. 0.8s, ec. 2.2s	16 5	2		
21517 <i>E 6253.3</i>	--No. 1/18 Berth.	32° 06.8' N 20° 02.9' E	Fl.W. period 3s fl. 1s, ec. 2s	16 5	4		
21518 <i>E 6253.4</i>	--No. 19/M8 Berth.	32° 06.7' N 20° 03.1' E	Q.W.	16 5	3		
21519 <i>E 6253.5</i>	--MB Berth.	32° 06.5' N 20° 03.0' E	Fl.(3)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6.5s	16 5	3		
21520 <i>E 6253.6</i>	--No. B22 Berth.	32° 06.8' N 20° 03.1' E	Q.R.	16 5	1		
21521 <i>E 6253.7</i>	--No. B22A Berth.	32° 06.9' N 20° 03.2' E	Fl.(3)R. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6.5s	16 5	2		
21524 <i>E 6254.5</i>	-Outer harbor, W. breakwater, S. head.	32° 05.8' N 20° 02.3' E	Q.R.	43 13	4		
21526 <i>E 6254.6</i>	--Breakwater, head.	32° 05.6' N 20° 02.4' E	Iso.W. period 5s	33 10	6		
21528 <i>E 6254.7</i>	--Breakwater, head.	32° 05.8' N 20° 02.5' E	Fl.(3)G. period 10s fl. 0.3s, ec. 1s fl. 0.3s, ec. 1s fl. 0.3s, ec. 7.1s	43 13	4		
21534 <i>E 6255.4</i>	-Radio mast.	30° 50.0' N 20° 03.1' E	Q.R.	449 137	15	Radio mast.	2 F.R. on same structure, 97 meters and 56 meters.
21536 <i>E 6255.45</i>	Az Zuwaytinah Terminal Buoy.	30° 56.0' N 20° 00.0' E	Mo.(Z)W. period 10s			SAFE WATER RW, pillar, topmark.	
21540 <i>E 6255.5</i>	-Range, front.	30° 53.3' N 20° 03.7' E	Fl.Y. period 1.5s fl. 0.5s, ec. 1s	23 7	10	Mast on tripod, black and red rectangular daymark.	
21544 <i>E 6255.51</i>	--Rear, 750 meters 135° from front.	30° 53.0' N 20° 04.1' E	Oc.Y. period 10s lt. 6s, ec. 4s	43 13	10	Mast on tripod, black and red rectangular daymark.	
21545 <i>E 6255.6</i>	-Wayfeya.	30° 54.0' N 20° 03.5' E	Fl.(6)W. period 10s		5	White mast.	
21546 <i>E 6255.7</i>	Small craft harbor, pier, head.	30° 53.9' N 20° 04.1' E	Fl.(2)W. period 13s	102 31	16		Q.R. marks dolphin 370 meters WSW.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
LIBYA							
MARSA AL BURAYQAHA:							
21556 <i>E 6256.4</i>	-East Channel Range, front.	30° 25.2' N 19° 37.4' E	Q.R.				Black, white, and red beacon.
21560 <i>E 6256.41</i>	--Rear, 660 meters 143°41' from front.	30° 24.9' N 19° 37.7' E	FI.R.				Black, white, and red beacon.
21562 <i>E 6256.2</i>	-E. breakwater, head.	30° 25.0' N 19° 35.7' E	Q.R.		39 12	15	
21564 <i>E 6256</i>	-W. breakwater, head.	30° 25.1' N 19° 35.4' E	FI.G. period 3s		39 12	15	Black structure.
21568 <i>E 6257</i>	-Common Range, front.	30° 25.0' N 19° 34.2' E	Oc.R.				Black, white, and red beacon.
21572 <i>E 6256.9</i>	--Berth Nos. 1 and 2 approach, rear, 1,408 meters 236°05' from front.	30° 24.6' N 19° 33.5' E	FR.				Black, white, and red mast.
21576 <i>E 6257.1</i>	--Approach rear, 1,445 meters 239°06' from front.	30° 24.6' N 19° 33.6' E	FR.				Black, white, and red mast.
21580 <i>E 6258</i>	-Berth No. 1 Range, front.	30° 24.6' N 19° 35.7' E	I.Q.W. period 8s				Black, white, and red beacon.
21584 <i>E 6258.1</i>	--Rear, 770 meters 167° 38' from front.	30° 24.2' N 19° 35.8' E	I.Q.W. period 15s				Black, white, and red beacon.
21588 <i>E 6259</i>	-Berth No. 2 Range, front, 660 meters 145°48' from common rear.	30° 24.8' N 19° 36.6' E	Oc.R.				Black, white, and red beacon.
21590 <i>E 6259.2</i>	-Front, 660 meters 147°20' from common rear.	30° 24.8' N 19° 36.6' E	Oc.R.				Black, white, and red beacon.
21592 <i>E 6259.1</i>	--Common rear.	30° 24.5' N 19° 36.9' E	Q.R.				Black, white, and red beacon.
21596 <i>E 6260</i>	-Berth No. 3, mooring island.	30° 26.0' N 19° 33.9' E	FR.		92 28		Metal tower; 69.
21598 <i>E 6264</i>	-Gas jetty, SE. head.	30° 24.7' N 19° 35.2' E	FG.				
21600 <i>E 6264.4</i>	--NE. head.	30° 24.9' N 19° 35.0' E	FR.				
21602 <i>E 6264.5</i>	-Intake.	30° 25.2' N 19° 36.4' E	FI.G.				Black pile.
21604 <i>E 6263</i>	-Inner Harbor approach Range, front.	30° 24.6' N 19° 35.0' E	F.Y.				Beacon.
21608 <i>E 6263.1</i>	--Rear, 370 meters 223°58' from front.	30° 24.4' N 19° 34.9' E	F.Y.				Beacon.
21612 <i>E 6266</i>	Ra's al Unuf.	30° 30.7' N 18° 32.3' E	Q.(2)W. period 5s fl. 0.2s, ec. 1s fl. 0.2s, ec. 3.6s		164 50	15	White water tower; 171.
			FR.		171 52		Obstruction.
21613 <i>E 6266.3</i>	-Breakwater, N. head.	30° 30.6' N 18° 35.7' E	FI.(2)G. period 10s		59 18	5	White and green pillar.
21614 <i>E 6266.4</i>	-Breakwater, E. head.	30° 30.5' N 18° 35.4' E	FI.(2)R. period 10s		59 18	5	White and red pillar.
21615 <i>E 6266.5</i>	-Range, Front.	30° 30.9' N 18° 34.3' E	FW.		39 12	9	Framework tower, white triangular daymark, black stripe, point up.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
LIBYA							
21615.1 <i>E 6266.51</i>	--Rear, 287°30', 220 meters from front.	30° 31.0' N 18° 34.1' E	F.W.	56 17	4	Framework tower, white triangular daymark, black stripe, point down.	
21615.2 <i>E 6266.6</i>	-Jetty, head, berth No. 1.	30° 30.1' N 18° 35.3' E	2F.W. (vert.)	30 9	4	Dolphin.	
21615.3 <i>E 6266.7</i>	--Berth No. 2.	30° 30.0' N 18° 35.2' E	3F.W. (vert.)	30 9	4	Dolphin.	
21615.4 <i>E 6266.8</i>	--Berth No. 3.	30° 29.8' N 18° 35.0' E	4F.W.	30 9	4		Lights form square shape.
21615.5 <i>E 6267</i>	As Sidrah.	30° 36.9' N 18° 16.9' E	Oc.R. period 3s lt. 2s, ec. 1s	394 120	8	Radio tower; 164.	
			F.R.	308 94			
21616 <i>E 6267.2</i>	-SPM No. 5 Approach.	30° 37.4' N 18° 22.5' E	F.W.R.G.			Black cross, white background on beacon.	G. 213°24'-218°24', R.-228°24', W.-233°24'. Beacons in line 223°25'.
21621 <i>E 6267.6</i>	Rigl Matratin, jetty, head.	30° 38.3' N 18° 22.2' E	Fl.G.		5		
MISRATAH:							
21621.5 <i>E 6267.7</i>	-S. breakwater, head.	30° 38.1' N 18° 22.1' E	Fl.R.				
21624 <i>E 6268</i>	Sirte.	31° 12.5' N 16° 35.6' E	Fl.W. period 5s fl. 1s, ec. 4s	115 35	15	White water tower.	
21628 <i>E 6274</i>	-Ra's al Bara Barq.	32° 22.3' N 15° 12.8' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	79 24	8	White iron framework structure on square tower, black stripes; 26.	F. and Fl.R. obstruction lights exist 14.1 km. 285°.
21628.5 <i>E 6275</i>	-Qasr Ahmad, N. breakwater, head.	32° 22.2' N 15° 13.7' E	Fl.G. period 10s fl. 0.5s, ec. 9.5s			Grey beacon.	
21628.6 <i>E 6276</i>	--S. breakwater, head.	32° 22.1' N 15° 13.6' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s			Grey beacon.	
21629.5 <i>E 6277</i>	--Range, front.	32° 22.1' N 15° 12.8' E	Fl.G. period 5s			White triangular daymark, red band, point up.	
21629.51 <i>E 6277.1</i>	--Rear, 500 meters 270° from front.	32° 22.1' N 15° 12.3' E	Fl.G. period 12s			White triangular daymark, red band, point down.	
21630 <i>E 6278</i>	-Steelworks Range, front.	32° 20.4' N 15° 14.4' E	Q.Y.	36 11	7		
21630.1 <i>E 6278.1</i>	--Rear, 430 meters 263° from front.	32° 20.4' N 15° 14.2' E	Iso.Y. period 6s	62 19	7		
21631 <i>E 6278.4</i>	--Outer breakwater, head.	32° 20.6' N 15° 15.4' E	Oc.G. period 4s lt. 3s, ec. 1s	39 12	5		Horn: 1 bl. ev. 20s (bl. 2s, si. 18s).
21631.1 <i>E 6278.6</i>	--Bulk Berth.	32° 20.7' N 15° 14.8' E	2 F.G. (vert.)	23 7	1		2 meters apart.
21631.5 <i>E 6278.5</i>	--Inner breakwater, head.	32° 20.5' N 15° 14.4' E	Fl.R. period 5s fl. 1s, ec. 4s	33 10	1		
21632 <i>E 6280</i>	Al Qalb.	32° 29.6' N 14° 34.3' E	Fl.W. period 3s fl. 0.5s, ec. 2.5s	115 35	10	Iron skeleton structure on hut with black and white stripes; 16.	F.R. and Fl.R. obstruction lights on mast 1 mile SSE.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
LIBYA							
21636 <i>E 6284</i>	Al Khums.	32° 39.6' N 14° 15.2' E	Fl.(2)W. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	85 26	12	White round tower, black bands; 61.	F.R. and Fl.R. obstruction lights on radio mast about 1.5 miles SW.
21640 <i>E 6288</i>	Ra's al Hallab.	32° 48.0' N 13° 48.4' E	Fl.(3)W. period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9.5s	115 35	12	Iron framework structure on white round tower; 71.	
21644 <i>E 6290</i>	Ra's Tajura.	32° 53.7' N 13° 23.2' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	112 34	14	Black and white checkered square masonry tower.	Obscured 097°-109°. F.R. light on radio mast 2.25 miles SW.
21648 <i>E 6292</i>	Sidi Otman (Wheelus Airfield), AVIATION LIGHT.	32° 54.2' N 13° 16.4' E	Al.Fl.W.G. period 10s	185 56	W. 29 G. 24	Red and white checkered water tower; 165.	Occasional.
TARABULUS (TRIPOLI):							
21652 <i>E 6294</i>	-Spanish Fort, Spanish Mole, N. root.	32° 54.3' N 13° 10.7' E	Fl.(2)W. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 8s	197 60	12	White round tower, black bands; 89.	F.R. and Fl.R. on radio masts 0.83 mile SSE. and 13.4 miles S. 2 F.R. on 2 masts 5.6 miles SW. F.R. on water towers 0.4 mile SW.
21656 <i>E 6296</i>	-Approach Range, front.	32° 54.5' N 13° 13.7' E	F.R.	55 17		Red and white triangular daymark, point up.	
21660 <i>E 6296.1</i>	--Rear, 130 meters 175° from front.	32° 54.0' N 13° 14.0' E	F.R.	81 25		Red and white triangular daymark, point down.	
21664 <i>E 6296.4</i>	-Entrance, No.1.	32° 56.1' N 13° 13.3' E	Fl.G. period 3s	42 13	10	Green articulated beacon.	
21668 <i>E 6296.5</i>	--No.2.	32° 56.1' N 13° 13.7' E	Fl.R. period 3s	42 13	10	Red articulated beacon.	
21672 <i>E 6296.6</i>	--No.4.	32° 55.4' N 13° 13.7' E	Fl.(2)R. period 6s	43 13	10	Beacon.	
21676 <i>E 6299</i>	-NE. breakwater, head.	32° 55.2' N 13° 13.0' E	L.Fl.G. period 8s fl. 2s, ec. 6s	33 10		Black and white concrete column.	
21680 <i>E 6299.5</i>	-NW. breakwater, head.	32° 55.0' N 13° 13.0' E	L.Fl.R. period 8s fl. 2s, ec. 6s	33 10		Red and white concrete column.	
21684 <i>E 6306</i>	-Entrance Range, front.	32° 53.8' N 13° 10.9' E	F.G.	79 24		Column.	
21688 <i>E 6306.1</i>	--Rear, about 300 meters 233° from front.	32° 53.7' N 13° 10.8' E	F.G.	102 31		Mast on building.	
21692 <i>E 6304</i>	-Spanish Mole, head.	32° 54.4' N 13° 11.8' E	Iso.G. period 4s	34 10	4	Green concrete column, black and white daymark; 33.	
21696 <i>E 6305</i>	-Karamanli mole, head.	32° 54.3' N 13° 11.8' E	Fl.(2)R. period 6s	33 10	4	Red concrete column, red and white daymark.	
21700 <i>E 7860</i>	Bouri Oilfield, SPM.	33° 54.3' N 12° 39.5' E	Mo.(U)W. period 15s				
RACON			A(• -)				
21701	-E. platform RACON.	33° 54.8' N 12° 41.9' E	U(• • -)				
21702	-W. platform RACON.	33° 53.8' N 12° 38.3' E	M(- -)				
21708 <i>E 6316</i>	Marsa Dilah.	32° 47.5' N 12° 45.0' E	Fl.W. period 4s fl. 0.5s, ec. 3.5s	79 24		Red metal column on red and white checkered building.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
LIBYA							
21712 E 6318	Marsa Zuwaghah.	32° 48.8' N 12° 25.8' E	Iso.W. period 2s	66 20	11	Red iron structure on white square masonry hut, black band; 19.	
21716 E 6322	Zuwarah, N. breakwater, root.	32° 55.5' N 12° 07.2' E	Fl.W. period 5s fl. 1s, ec. 4s	49 15	12	Metal framework tower white hut, black bands.	
21720 E 6323	-N. breakwater, head.	32° 55.4' N 12° 07.2' E	V.Q.G.	36 11	8	Metal framework tower on white hut.	
21722 E 6324	-S. breakwater, head.	32° 55.4' N 12° 07.2' E	V.Q.R.	36 11	8	Red metal framework tower; 10.	
21724 E 6325	Abukamash, industrial complex, jetty, E. head.	33° 05.7' N 11° 50.0' E	V.Q.R.				V.Q.G. mark W. head.
21728 E 6326	Farwah.	33° 06.4' N 11° 44.7' E	L.Fl.W. period 5s fl. 2s, ec. 3s	56 17	12	Red tower on black and white building.	
TUNISIA							
21738 E 6327	Ras El Keft.	33° 10.7' N 11° 29.3' E	Iso.G. period 6s		5		
			Q.(3)R. period 10s		5		
ZARZIS:							
21740 E 6328	-Main light.	33° 29.8' N 11° 07.2' E	Oc.(2+1)W. period 12s lt. 4s, ec. 1s lt. 4s, ec. 1s lt. 1s, ec. 1s	49 15	15	White octagonal tower, black top; 46.	Visible 180°-090°. Reserve light F.R. 10M.
21741 E 6328.2	--Breakwater, head.	33° 28.8' N 11° 07.9' E	Fl.(2+1)W. period 15s fl. 1s, ec. 5.2s fl. 1s, ec. 5.2s fl. 1s, ec. 1.6s	36 11	12	Red and white tower; 30.	F.R. and F.G. mark entrance to fishing harbor.
21744.1 E 6327.4	-El Bibene, S.	33° 26.3' N 11° 18.1' E	Mo.(U)W.R. period 6s	49 15	W. 10 R. 8		Wellhead.
21744.2 E 6327.41	--W.	33° 26.9' N 11° 17.8' E	Mo.(U)W.R. period 6s	49 15	W. 10 R. 8		Wellhead.
21744.3 E 6327.42	--E.	33° 26.8' N 11° 18.4' E	Mo.(U)W.R. period 6s	49 15	W. 10 R. 8		Wellhead.
21744.4 E 6327.43	--N.	33° 27.1' N 11° 18.2' E	Mo.(U)W. period 6s	49 15	10		Wellhead.
ILE DE DJERBA:							
21758 E 6340	-El Kantara.	33° 40.7' N 10° 55.0' E	F.W.	16 5	8		
21760 E 6330.2	-Arghir.	33° 45.2' N 11° 01.0' E	Fl.W. period 4.5s fl. 0.5s, ec. 4s	22 7	9	Round tower, white and red bands.	Visible 258°-010°. Reserve light F.G.
21764 E 6332	-Ra's Taguerness.	33° 49.3' N 11° 02.7' E	Fl.W. period 5s fl. 0.3s, ec. 4.7s	210 64	24	White round tower, red bands, dwelling; 160.	
21772 E 6339	-Djerba-Mellita, AVIATION LIGHT.	33° 52.2' N 10° 47.3' E	Al.Fl.W.G. period 10s	121 37	W. 29 G. 26	Tower; 85.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TUNISIA							
21776 E 6334	-Hawmat as Sug (Djerba), on wharf.	33° 53.1' N 10° 51.2' E	Oc.(2)W. period 7s fl. 4s, ec. 1s fl. 1s, ec. 1s	30 9	14	Red and white pylon on yellow dwelling; 28.	Channel is marked by lighted beacons. Visible 080°-320°.
21780 E 6338	-Burj Jillij, NW. point of island.	33° 53.1' N 10° 44.6' E	Fl.R. period 5s fl. 0.3s, ec. 4.7s	52 16	9	White octagonal tower, upper part black; 38.	
21784 E 6344	--N. side of W. channel entrance.	33° 42.1' N 10° 36.3' E	Fl.(2)W. period 9s fl. 1.5s, ec. 1.5s fl. 1.5s, ec. 4.5s	16 5	8	Tank on pylon; 16.	Visible 340°-250°. Fl.(5)R. 20s 5M about 1.3 miles SSW.
21804 E 6342.4	-Bordj Adjim, beacon No.1.	33° 41.7' N 10° 44.1' E	Fl.(3)G. period 15s fl. 1s, ec. 1.5s fl. 1s, ec. 5s fl. 1s, ec. 5.5s	16 5	5	Green metal tripod.	Dredged channel marked by lighted beacons.
21805 E 6340.5	Bou Grara.	33° 32.4' N 10° 41.3' E	Iso.W. period 2s	23 7	8		
21806 E 6345	Zarat.	33° 41.9' N 10° 21.8' E	Fl.(3)G. period 10s fl. 0.6s, ec. 0.6s fl. 0.6s, ec. 0.6s fl. 0.6s, ec. 7s	20 6	5		L.Fl.R. 10s 5M shown close S.
QABIS (GABES):							
21808	-Ghannouche 0 entrance buoy.	33° 57.0' N 10° 09.0' E	Iso.W. period 6s			SAFE WATER RW, can, topmark.	
21812 E 6352	-N. jetty, head.	33° 55.4' N 10° 06.7' E	Fl.G. period 4s fl. 1s, ec. 3s	39 12	10	Black conical tower; 16.	
21816 E 6352.4	-S. jetty, head.	33° 55.2' N 10° 06.5' E	Oc.R. period 1.5s fl. 1s, ec. 0.5s	39 12	6	Red conical tower; 16.	
21820 E 6348	-Main light.	33° 53.6' N 10° 06.8' E	Fl.(2)W. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	42 13	20	White octagonal tower, black top; 36.	Visible 124°-304°. Red lights on pylon 0.9 mile SW.
21821 E 6349	-Fishing harbor, N. jetty, head.	33° 53.6' N 10° 07.2' E	Fl.(2)G. period 9s fl. 0.5s, ec. 2s fl. 0.5s, ec. 6s	33 10	6	Hexagonal tower.	
21822 E 6350	--S. jetty, head.	33° 53.6' N 10° 07.1' E	Fl.R. period 6.5s fl. 0.5s, ec. 6s	33 10	6	Hexagonal tower.	
AL SKHIRRA:							
21826 E 6353	-Fishing Harbor, S. jetty.	34° 16.0' N 10° 05.1' E	Fl.(2)G. period 10s	20 6	6		
21827 E 6353.1	--SW. of entrance.	34° 17.0' N 10° 05.7' E	Fl.G. period 5s	20 6	6		
21828 E 6354	-Approach, oil terminal.	34° 19.8' N 10° 07.9' E	Fl.G. period 3s fl. 1s, ec. 2s	105 32	20	Pylon on house.	
21832 E 6356	-Oil pier, head.	34° 18.3' N 10° 09.5' E	F.R.	105 32	5		
21834 E 6358	Mahares.	4° 30.9' N 10° 29.9' E	Dir.F.W.R.G.	29 9	3	White pylon.	
21836 E 6359	Ra's Thinah.	34° 39.0' N 10° 41.1' E	Fl.(2)W. period 10s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 7.2s	182 55	24	White round tower, red bands, white dwelling; 144.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TUNISIA							
SFAX:							
21845 <i>E 6362.5</i>	-S. breakwater, head.	34° 42.7' N 10° 46.0' E	Fl.R. period 5s fl. 1s, ec. 4s	13 4	10	Red tower.	
21846 <i>E 6362.6</i>	-N. breakwater, head.	34° 42.8' N 10° 46.1' E	Fl.G. period 4s fl. 1s, ec. 3s	13 4	10	Green tower.	
21847 <i>E 6362.7</i>	-Detached breakwater, N. extremity.	34° 42.7' N 10° 46.3' E	Iso.R. period 6s	13 4	10	Red tower.	
21848 <i>E 6362</i>	-Port Light, on Quai du Commerce.	34° 43.8' N 10° 46.1' E	Dir.Oc.(2)W. period 8s lt. 4.5s, ec. 1s lt. 1.5s, ec. 1s	58 18	13	Iron skeleton structure on sentry box, lower part gray, middle part white, upper part black; 5s.	Intensified 319°-325°.
21852 <i>E 6366.6</i>	-Balise de Ras Djlija, Ile Sherki, N. extremity..	34° 49.8' N 11° 14.8' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	33 10	6	Tank on concrete base, upper part white, black below; 28.	Radiobeacon about 11 km. 155°.
QARQANA:							
21858 <i>E 6361.5</i>	-Rass el Besh.	34° 31.5' N 11° 04.5' E	Fl.(2)W. period 9s fl. 1s, ec. 2s fl. 1s, ec. 5s	56 17	7	White pylon.	Marks wellhead.
21897 <i>E 6364</i>	Port de Loueta, W. coast.	35° 02.5' N 11° 02.0' E	V.Q.(3)R. period 6s fl. 0.3s, ec. 0.3s fl. 0.3s, ec. 0.3s fl. 0.3s, ec. 4.5s	23 7	5	Red tower.	
21897.2 <i>E 6364.2</i>	-E. coast.	35° 02.5' N 11° 02.1' E	Fl.(2)G. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	23 7	5	Green tower.	
21898 <i>E 6369</i>	Chebba, N. jetty.	35° 13.1' N 11° 10.0' E	Fl.(2)G. period 9s fl. 0.5s, ec. 2s fl. 0.5s, ec. 6s	26 8	6	Green tower.	
21899 <i>E 6369.2</i>	-S. jetty.	35° 13.0' N 11° 10.0' E	Fl.(2)R. period 6.5s fl. 0.5s, ec. 6s	26 8	6	Red tower.	
21900 <i>E 6368</i>	Ras Kapudia (La Chebba).	35° 14.0' N 11° 09.4' E	Fl.(2)W.R. period 9s fl. 1.5s, ec. 1.5s fl. 1.5s, ec. 4.5s	92 28	W. 19 R. 14	Red and white striped tower, triangular daymark, point down; 59.	W. 135°-325°, R.-135°.
21904 <i>E 6370</i>	Al Mahdiyah.	35° 30.5' N 11° 04.9' E	Fl.R. period 5s fl. 0.3s, ec. 4.7s	86 26	17	White hexagonal tower, red top, on dwelling; 49.	
21908 <i>E 6371</i>	-S. jetty, head.	35° 29.8' N 11° 04.1' E	Fl.W. period 2s	30 9	4	Aluminum colored pylon.	
21912 <i>E 6371.2</i>	--Spur, head.	35° 30.0' N 11° 04.2' E	F.G.	19 6	3		
21913 <i>E 6371.4</i>	--Outer spur, head.	35° 29.8' N 11° 04.1' E	Fl.(2)R. period 10s fl. 1s, ec. 1s fl. 2s, ec. 6s	20 6	6		
21916 <i>E 6372</i>	-W. spur, head.	35° 30.0' N 11° 04.1' E	F.R.	16 5	3		
21917 <i>E 6372.6</i>	-Breakwater, SE. head.	35° 29.8' N 11° 04.2' E	Fl.(2)R. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	13 4	6		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TUNISIA							
21919 <i>E 6372.8</i>	Bekalta, E. jetty.	35° 37.3' N 11° 03.0' E	Fl.G. period 4s	30 9	7		Fl.R. 5s 9m 7M marks W. jetty.
21920 <i>E 6380</i>	Jazirat Qurayyat.	35° 47.9' N 11° 02.0' E	Fl.W.R. period 5s fl. 1s, ec. 4s	98 30	W. 18 R. 14	White square tower, red top, white base; 85.	R. 348°-053°, W.-348°.
21921 <i>E 6373.6</i>	Teboulba, NW.	35° 39.5' N 10° 57.4' E	L.Fl.G. period 10s	23 7	5	Green stone tower; 20.	
21922 <i>E 6373.8</i>	-NE.	35° 39.5' N 10° 57.6' E	L.Fl.R. period 10s	23 7	5	Red stone tower; 20.	
21924 <i>E 6373.22</i>	Saiadah (Sayada), outer jetty.	35° 40.6' N 10° 53.7' E	L.Fl.(2)W. period 15s fl. 2.5s, ec. 2.5s fl. 2.5s, ec. 7.5s	26 8	9	White tower.	
21925 <i>E 6373</i>	-NW. jetty.	35° 40.5' N 10° 53.6' E	L.Fl.(2)G. period 15s fl. 2.5s, ec. 2.5s fl. 2.5s, ec. 7.5s	20 6	6	Green stone tower; 20.	
21926 <i>E 6373.2</i>	-SE. jetty.	35° 40.5' N 10° 53.7' E	L.Fl.(2)R. period 15s fl. 2.5s, ec. 2.5s fl. 2.5s, ec. 7.5s	20 6	6	Red stone tower; 20.	
21932 <i>E 6374</i>	Al Munastir, Burj el Kelb.	35° 45.6' N 10° 50.3' E	Fl.(2)R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	85 26	10	Minaret with black bands on east and south face; 20.	Visible 197°-355°.
21933 <i>E 6376</i>	-Fishing Port, covered mole, extremity.	35° 45.5' N 10° 50.0' E	Fl.R. period 1.5s fl. 0.3s, ec. 1.2s	20 6	3	Red metal pylon.	
21935 <i>E 6377.2</i>	-Breakwater, S. extremity.	35° 47.0' N 10° 50.0' E	Fl.(2)R. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 8s	26 8	6	Red stone tower.	
21936 <i>E 6377</i>	-Marina, E. side.	35° 46.6' N 10° 50.1' E	L.Fl.(2)G. period 10s fl. 2s, ec. 0.5s fl. 1.5s, ec. 6s	26 8	6	Green mast on hut.	
21940 <i>E 6381</i>	Main jetty.	35° 47.4' N 10° 40.9' E	Oc.G. period 5s lt. 4.5s, ec. 0.5s	26 8	5		
21944 <i>E 6381.5</i>	-Secondary jetty.	35° 47.2' N 10° 41.2' E	Oc.(2)W. period 10s lt. 8s, ec. 0.5s lt. 1s, ec. 0.5s	26 8	5		
SUSAH:							
21948 <i>E 6385.7</i>	-Buoy 1, entrance.	35° 50.0' N 10° 40.0' E	L.Fl.G. period 6s			STARBOARD (A) G, conical, topmark.	
21952 <i>E 6384</i>	-Jetee Abri.	35° 49.6' N 10° 39.3' E	Oc.W.R. period 4s lt. 3s, ec. 1s	39 12	W. 9 R. 6	Red pylon on white base; 19.	R. 135°-180°, W.-045°.
21956 <i>E 6382</i>	-Susah.	35° 49.4' N 10° 38.3' E	Fl.W. period 4s fl. 0.3s, ec. 3.7s	230 70	22	White square tower; 72.	
21960 <i>E 6385</i>	-Epi Nord, head.	35° 49.6' N 10° 39.1' E	Iso.G. period 4s	33 10	8	Green conical tower; 21.	Visible 258°-112°.
21964 <i>E 6385.5</i>	-Epi Sud, head.	35° 49.5' N 10° 39.1' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	33 10	8	Red conical tower; 21.	Visible 079°-277°. Reserve light range 6M.
21972 <i>E 6387</i>	El Kantaoui, marina, E. jetty, head.	35° 53.6' N 10° 36.1' E	Fl.G. period 4s fl. 1s, ec. 3s	30 9	6	Green tower; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TUNISIA							
21976 <i>E 6387.3</i>	--W. jetty, head.	35° 53.6' N 10° 36.1' E	Fl.R. period 5s fl. 1s, ec. 4s	29 9	6	Red tower; 20.	
21976.3 <i>E 6388</i>	Hargalah, large jetty, head.	36° 01.9' N 10° 30.7' E	Fl.(2)G. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	16 5	6		
21976.4 <i>E 6388.2</i>	-S. jetty, head.	36° 01.9' N 10° 30.6' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	16 5	6		
21976.5 <i>E 6386</i>	Hammamet.	36° 23.7' N 10° 36.9' E	Fl.(2)W. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	56 17	15	Lantern on Casbah wall; 46.	Visible 255°-165°. Reserve light F.W.
21976.51 <i>E 6386.1</i>	-Port Yasmine Yacht Harbor, Hammamet.	36° 22.3' N 10° 32.8' E	L.Fl.(2)W. period 15s fl. 2.5s, ec. 2.5s fl. 2.5s, ec. 7.5s	56 17	12	Tower on harbor master's office.	Visible 030°-210°.
21976.6 <i>E 6389.5</i>	Ra's al Ma'murah, large jetty, head.	36° 27.1' N 10° 47.1' E	Fl.(2)G. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	16 5	6		
21976.7 <i>E 6389.6</i>	-S. jetty, head.	36° 27.0' N 10° 47.8' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	16 5	6		
KELIBIA:							
21977 <i>E 6390.4</i>	-S. jetty, head.	36° 49.9' N 11° 06.5' E	Fl.(2)W. period 8s fl. 1s, ec. 1.5s fl. 1s, ec. 4.5s	16 5	5	White pylon.	
21978 <i>E 6390.42</i>	--Spur.	36° 50.0' N 11° 06.6' E	Fl.G. period 4s fl. 0.5s, ec. 3.5s	16 5	2	Green pylon.	
21979 <i>E 6390.6</i>	-W. jetty, head.	36° 50.1' N 11° 06.6' E	Fl.R. period 2s	16 5	2	Red pylon.	
21980 <i>E 6390</i>	-Rass Mostefa.	36° 50.2' N 11° 07.0' E	Fl.(4)W. period 20s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 12.2s	269 82	23	White platform, black lantern; 59.	
21982 <i>E 6391</i>	Ras el Melah.	36° 52.3' N 11° 08.1' E	Fl.R. period 4s	79 24	3		
21984 <i>E 6392</i>	Cap Bon (Ra's at Tib).	37° 04.7' N 11° 02.7' E	Fl.(3)W. period 20s fl. 0.2s, ec. 3.8s fl. 0.2s, ec. 3.8s fl. 0.2s, ec. 11.8s	412 126	30	White tower, red top; 66.	Visible 068°-310°, except when obscured by Zembra Island 100°-108°. Radiobeacon 0.7 mile SSW.
21985 <i>E 6392.3</i>	-Pipeline zone, S. end.	37° 00.4' N 11° 03.5' E	Fl.(4)Y. period 15s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	52 16	9	SPECIAL Y, beacon, topmark.	
21985.1 <i>E 6392.4</i>	-Pipeline zone, N. limit.	37° 01.6' N 11° 03.4' E	Fl.(4)Y. period 15s	52 16	10	SPECIAL Y, beacon, topmark.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TUNISIA							
KHALIS TUNIS:							
-La Goulette:							
21988 <i>E 6394</i>	--Zembretta Isle.	37° 06.3' N 10° 52.4' E	Fl.W. period 4s fl. 1s, ec. 3s	194 59	6	White square tower, lantern, lower part black; 26.	Visible 124°-099°.
21989 <i>E 6394.2</i>	-Ile Zembra, E. entrance.	37° 07.0' N 10° 48.3' E	Fl.(4)G. period 15s	16 5	5		
21989.1 <i>E 6394.4</i>	--W. entrance.	37° 06.9' N 10° 48.4' E	Fl.(5)R. period 20s	11 4	5		
21990 <i>E 6394.5</i>	Sidi Daoud, fishing harbor, N. jetty, head.	37° 01.1' N 10° 54.3' E	Fl.(2)R. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	10 3	6		
21991 <i>E 6394.6</i>	-S. jetty, head.	37° 01.1' N 10° 54.4' E	Fl.(2)G. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	10 3	6		
21995 <i>E 6401</i>	-Power station.	36° 47.8' N 10° 17.0' E	Fl.R. period 1.5s	335 102	8	Chimney; 328.	
21996 <i>E 6396</i>	--Jeteo Nord, No. 9, head.	36° 48.4' N 10° 18.5' E	Fl.(3)W. period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	43 13	11	Gray pylon, green top; 26.	Visible 215°-035° and 090°- 121°. Reserve light F.W. 8M.
22000 <i>E 6397.5</i>	--Port side.	36° 48.3' N 10° 18.5' E	F.R.	43 13	5		
22002 <i>E 6397</i>	-Digue Nord, head.	36° 48.4' N 10° 18.6' E	Fl.(2)G. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	30 9	5		
22004 <i>E 6399</i>	--Digue Sud No. 10.	36° 48.3' N 10° 18.4' E	Fl.R. period 5s	30 9	6	Red truncated tower; 23.	
22008 <i>E 6396.5</i>	--Ro Ro Berth.	36° 48.7' N 10° 18.6' E	Fl.G. period 4s fl. 1s, ec. 3s	23 7	6		
22012 <i>E 6408</i>	-Port de Rades.	36° 48.6' N 10° 16.8' E	Fl.R. period 5s fl. 1s, ec. 4s	26 8	3	Pylon.	Marks overhead power line.
22032 <i>E 6410</i>	-Tunis.	36° 47.7' N 10° 11.5' E	Dir.Fl.(2)W. period 6s	37 11	11	White building; 33.	Intensified 256°-260°.
22040 <i>E 6412</i>	Ras Qartajah.	36° 52.3' N 10° 20.9' E	Fl.W. period 5s fl. 0.3s, ec. 4.7s	480 146	22	White tower, black top; 39.	
22044 <i>E 6413</i>	-Jetty, SE. extremity.	36° 51.8' N 10° 21.0' E	Fl.G. period 5.5s fl. 1s, ec. 4.5s	20 6	4	Pylon; 13.	
22048 <i>E 6413.2</i>	-Jetty, NW. extremity.	36° 51.9' N 10° 21.0' E	Fl.R. period 3s fl. 0.5s, ec. 2.5s	13 4	4	Pedestal; 10.	
22056 <i>E 6414</i>	Al Jazirah al Mussattahah.	37° 10.9' N 10° 19.7' E	Fl.(2)W.R. period 10s	65 20	W. 15 R. 11	White square tower, red bands; 39.	R. 067°-107°, W.-067°.
22060 <i>E 6415</i>	Lac de Porto-Farina, N. jetty, head.	37° 08.6' N 10° 12.6' E	Fl.G. period 2s fl. 0.5s, ec. 1.5s	16 5	3	Tower; 13.	
22062 <i>E 6415.2</i>	-S. jetty, head.	37° 08.5' N 10° 12.6' E	Fl.R.	16 5	3		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TUNISIA							
22064 E 6416	Iles Cani.	37° 21.3' N 10° 07.4' E	Fl.(2)W.R. period 10s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 7.2s	129 39	W. 19 R. 16	White round tower, black bands on dwelling; 69.	W. 237°-177°, R.-237°.
22065 E 6418	Ras as Zabib, fishing harbor, jetty, head.	37° 15.9' N 10° 04.1' E	Fl.G. period 4s fl. 1s, ec. 3s	33 10	6	Green tower.	
22066 E 6418.1	--Jetty, head.	37° 15.9' N 10° 04.1' E	Fl.R. period 5s fl. 1s, ec. 4s	33 10	7	Red tower.	
BANZART (BIZERTE):							
22068 E 6420	-Detached breakwater, S. head.	37° 16.6' N 9° 53.9' E	Iso.G. period 4s	49 15	4	White pylon, black top; 26.	
22076 E 6422	--N. head.	37° 16.8' N 9° 53.6' E	Fl.(2)R. period 10s fl. 1s, ec. 1s fl. 1s, ec. 7s	33 10	2	Red tower; 26.	
22078 E 6423	-Zarzouna, fishing harbor, N. breakwater.	37° 16.1' N 9° 53.8' E	Fl.(2)G. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	20 6	6	Green beacon.	
22078.5 E 6423.4	--E. breakwater.	37° 16.1' N 9° 53.7' E	Fl.(2)R. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	20 6	6	Red beacon.	
22080 E 6426	-Jetee Nord, head.	37° 16.7' N 9° 53.4' E	F.G.	49 15	8	Green conical tower; 26.	
22084 E 6428	-East Jetty, N. head.	37° 16.5' N 9° 53.4' E	Iso.R. period 4s	79 24	10	Red tower; 56.	
22088 E 6432	-Entree du Goulet, N. head.	37° 16.4' N 9° 52.9' E	F.G.	16 5	4		
22092 E 6434	--S. head.	37° 16.3' N 9° 53.1' E	Fl.R.	16 5	3		Visible 055°-310°.
22096 E 6436	-Goulet, Quai Nord.	37° 15.9' N 9° 52.1' E	Fl.G. period 4s	16 5	2	Green metal framework tower.	
22100 E 6438	--Quai Sud.	37° 15.8' N 9° 52.2' E	Fl.R. period 4s	16 5	2	Red metal framework tower.	
22104 E 6440	--Pointe de Sebra.	37° 15.5' N 9° 51.6' E	Dir.Fl.W.R.G. period 6s fl. 0.3s, ec. 5.7s	52 16	8	White tower, black stripes; 49.	G.134°-234°, W.-235°, R.- 355°.
22106 E 6454	-Menzel Abderrahman.	37° 13.9' N 9° 51.7' E	Fl.R. period 5s fl. 1s, ec. 4s	30 9	6		
MANZIL BU RUQAYBAH:							
22120 E 6446	-Digue Est, N. head.	37° 09.5' N 9° 48.9' E	F.R.	26 8	4		
22124 E 6445	-Jetee Nord, E. head.	37° 09.6' N 9° 48.9' E	F.G.	26 8	4		
22132 E 6456	Ras Engela.	37° 20.7' N 9° 44.3' E	Fl.W.R. period 2.5s fl. 0.5s, ec. 2s	125 38	W. 28 R. 25	Black square tower, white band on dwelling; 49.	R. shore west of light-085° W- shore.
22136 E 6458	Cap Serrat.	37° 13.9' N 9° 12.6' E	Fl.(2)W.R. period 10s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 7.2s	653 199	W. 24 R. 22	Black tower, white band on yellow dwelling; 43.	W. 261°-238°, R.-261°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
TUNISIA							
22138 <i>E 6459</i>	Sidi Mechrig, W. jetty.	37° 10.1' N 9° 07.5' E	Fl.R. period 5s fl. 1s, ec. 4s	33 10	6		
22139 <i>E 6459.1</i>	--Outer.	37° 10.1' N 9° 07.5' E	Fl.G. period 4s fl. 1s, ec. 3s	33 10	6		
22140 <i>E 6459.2</i>	--Inner.	37° 10.1' N 9° 07.6' E	Fl.G. period 4s fl. 1s, ec. 3s	13 4	3		
22144 <i>E 6464</i>	Galiton de l'Ouest.	37° 29.9' N 8° 52.6' E	Fl.(4)W. period 20s fl. 0.4s, ec. 2.9s fl. 0.4s, ec. 2.9s fl. 0.4s, ec. 2.9s fl. 0.4s, ec. 9.7s	551 168	24	Black tower, cupola on gray building; 46.	Obscured 227°-250°. May appear as Fl.(2)W. 20s at a distance.
	-Auxiliary light.		F.R.	524 160	22		Visible 064°-069°.
22145 <i>E 6465</i>	Ile de La Galite, jetty, head.	37° 31.5' N 8° 56.3' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s		6		
22146 <i>E 6465.2</i>	-Jetty, NE. corner.	37° 31.5' N 8° 56.4' E	Fl.(2)G. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s		6		
22148 <i>E 6460</i>	Jazirat Tabargah.	36° 57.8' N 8° 45.5' E	Fl.W. period 2.5s	236 72	17	White tower.	
22152 <i>E 6462</i>	-Fishing harbor, N. mole, head.	36° 57.4' N 8° 45.9' E	Fl.G. period 4s fl. 1s, ec. 3s	33 10	6	Green tower.	
22156 <i>E 6462.4</i>	--Digue, E. elbow.	36° 57.5' N 8° 45.9' E	Fl.R. period 5s fl. 1s, ec. 4s	33 10	6	Red tower.	

Section 15

Algeria and Morocco

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ALGERIA							
22164 <i>E 6482</i>	El Kala (La Calle), E. side of entrance.	36° 54.0' N 8° 26.6' E	FR.	56 17	9	White tower, red lantern; 24.	Obscured by Pointe Noire southward of 091°.
22166 <i>E 6483</i>	-Pointe du Cimetiere, jetty, head.	36° 54.1' N 8° 27.5' E	FI.G. period 4s fl. 1s, ec. 3s	33 10	2	White tower; 13.	
22168 <i>E 6484</i>	Cap Rosa.	36° 56.9' N 8° 14.4' E	FI.(2)W. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	427 130	10	White round tower; 42.	
ANNABA (BONE):							
22176 <i>E 6486</i>	-Jetee du Lion, head.	36° 54.3' N 7° 47.1' E	Oc.(3)G. period 12s lt. 4.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s	52 16	9	White tower; 56.	
22180 <i>E 6490</i>	-Jetee Sud, head.	36° 54.2' N 7° 46.9' E	Oc.(2)R. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	52 16	10	White tower; 46.	
22184 <i>E 6492.4</i>	-Jetee Sud, N. side.	36° 54.2' N 7° 46.8' E	FR.	23 7	2	White column.	
22188 <i>E 6495.2</i>	-Grand Basin, entrance, N. side.	36° 54.5' N 7° 46.7' E	FG.	10 3	2	White square structure; 7.	
22192 <i>E 6495</i>	-Darse de la Grenouillere, S. side of entrance.	36° 54.4' N 7° 46.6' E	FR.	10 3	2	White square structure; 6.	A F.G. light is shown on N. side of entrance.
22196 <i>E 6496</i>	-Passe Cigogne.	36° 53.8' N 7° 46.1' E	FG.	26 8		White column; 23.	Visible 210°-065°.
22204 <i>E 6504</i>	-Fort Genois.	36° 57.0' N 7° 46.6' E	Oc.(2)W. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	200 61	10	White masonry building; 26.	Obscured 240°-263° within 0.5M.
22208 <i>E 6506</i>	Cap de Garde.	36° 58.1' N 7° 47.1' E	FI.W. period 5s fl. 0.4s, ec. 4.6s	469 143	30	Gray square tower, white dwelling; 46.	
22212 <i>E 6508</i>	Roche Akcine (Axin).	37° 03.2' N 7° 30.8' E	FI.(2)W. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	52 16	8	ISOLATED DANGER BRB, tower, topmark.	Visible 054°-324°.
BAIE DE TAKOUCH:							
22216 <i>E 6510</i>	-Cap Takouch, N. side of entrance.	37° 04.6' N 7° 23.5' E	Oc.W.R. period 4s lt. 3s, ec. 1s	420 128	W. 8 R. 5	White tower, black cupola; 33.	W. 140°-278°, R.-290°, W.-320°, obsc.-140°.
22220 <i>E 6512</i>	-E. jetty, head.	37° 04.0' N 7° 23.3' E	FG.	30 9	2	White column; 16.	
22224 <i>E 6514</i>	-W. jetty, head.	37° 04.0' N 7° 23.0' E	FR.	26 8		White column; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ALGERIA							
GOLFE DE STORA:							
22228 E 6516	-Cap de Fer.	37° 04.9' N 7° 10.4' E	Fl.(3)W. period 15s fl. 0.4s, ec. 2.6s fl. 0.4s, ec. 2.6s fl. 0.4s, ec. 8.6s	213 65	19	White tower, yellow top; 57.	Obscured by coast between 254° and 312°.
22232 E 6518	-El Mersa.	37° 01.7' N 7° 15.2' E	Iso.W. period 4s	33 10	7	White tower; 16.	
22240 E 6522	-Skikda, N. jetty, head.	36° 53.6' N 6° 54.1' E	Oc.(2)W.R. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	69 21	W. 12 R. 9	White tower, upper part red; 46.	W. 160°-288°, R.-160°.
22244 E 6524	--Jeteo Ouest (du Chateau-Vert).	36° 53.4' N 6° 54.1' E	Fl.(2)G. period 5s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s	33 10	5	White tower, upper part green; 27.	Visible 109°-011°.
22248 E 6523	--Traverse Nord, about 46 meters NNE. of head.	36° 53.5' N 6° 54.2' E	Fl.(2)R. period 5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 2.5s	33 10	6	White tower, red top.	Visible 296°-126°.
22252 E 6520	--Port Methanier, main breakwater, head.	36° 53.6' N 6° 56.9' E	Fl.G. period 4s fl. 1s, ec. 3s	52 16	10	White tripod tower; 43.	
22256 E 6520.2	---Lee breakwater, head.	36° 53.2' N 6° 56.6' E	Oc.R. period 4s lt. 3s, ec. 1s	33 10	7	White tower, red top; 20.	
22264 E 6530	-Ilot des Singes, gulf, W. side.	36° 54.3' N 6° 53.0' E	Iso.W.G. period 4s	55 17	W. 10 G. 6	White square tower, green lantern; 30.	G. 193°30'-216°, W.-023°, G.-080°, obsc.-193°30'.
22268 E 6533	-Ile du Lion.	36° 55.2' N 6° 53.4' E	Fl.G. period 5s			White square tower; 43.	
22272 E 6534	-Ile Sridina.	36° 56.3' N 6° 53.2' E	Fl.R. period 5s fl. 0.6s, ec. 4.4s	176 54	20	Square white tower, red top; 40.	Obscured by Point Esrah when bearing less than 122°.
22276 E 6538	-Collo, jetty, head.	37° 00.3' N 6° 34.5' E	F.G.	43 13	5	White column; 26.	Obscured when bearing less than 221°.
22280 E 6540	Pointe Djerda.	37° 01.0' N 6° 35.1' E	Fl.G. period 5s fl. 0.6s, ec. 4.4s	85 26	12	White octagonal tower, green lantern; 36.	Obscured 323°-146°.
22284 E 6542	Cap Bougaroun.	37° 05.4' N 6° 28.2' E	Fl.(2)W. period 10s fl. 0.4s, ec. 2.1s fl. 0.4s, ec. 7.1s	298 91	29	White octagonal tower; 33.	Visible 087°-280°. Signal station.
22288 E 6544	Ras el Moghreb.	37° 01.5' N 6° 15.9' E	Fl.W. period 4s fl. 1s, ec. 3s	98 30	10	White tower; 49.	
JIJEL (DJIDJELLI):							
22292 E 6550	-Jeteo Nord, main light, groyne, root.	36° 49.7' N 5° 46.9' E	Oc.(1+2)W.R. period 12s lt. 4s, ec. 1s lt. 1s, ec. 1s lt. 4s, ec. 1s	61 19	W. 12 R. 9	Yellow square tower, black top; 26.	R. 096°-101°, W.-096°. Obscured by heights of Picouleau when bearing less than 094°.
22296 E 6551	--head.	36° 49.6' N 5° 47.0' E	Iso.G. period 4s	30 9	6	Black column; 10.	F.R. and F.G. lights mark the heads of the jetties in the inner harbor.
22300 E 6552	-Jeteo Sud.	36° 49.5' N 5° 46.8' E	Fl.R. period 4s	23 7	3	Red column; 10.	F.I.R. 4s light marks mole close E.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ALGERIA							
22308 <i>E 6558</i>	Ras Afia.	36° 49.2' N 5° 41.5' E	Fl.R. period 5s fl. 0.5s, ec. 4.5s	140 43	24	Yellow octagonal tower and building; 46.	Visible 027°-255°, obscured by Cap Cavallo southward of 064°. Reserve light F.W.
			Fl.R. period 4s	92 28	14	White hut; 3.	Visible 124°-154°.
22312 <i>E 6560</i>	Hadjret Tafalkout.	36° 46.4' N 5° 34.3' E	Fl.(9)W. period 15s	69 21	5	White metal structure; 16.	
22316 <i>E 6562</i>	Ile Mansouria.	36° 40.8' N 5° 28.7' E	Fl.W. period 2.5s fl. 0.5s, ec. 2s	69 21	5	White column; 20.	
BOUGIE (BEJAIA):							
22320 <i>E 6567</i>	-Jettee Sud.	36° 45.2' N 5° 06.0' E	Oc.(2)R. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	36 11	10	White column; 26.	Passes Abd-el-Kadar and Kasbah are marked on N. side by a F.G. light and S. side by a F.R. light.
22324 <i>E 6566</i>	-E. jetty.	36° 45.2' N 5° 06.2' E	Oc.W. period 4s lt. 3s, ec. 1s	52 16	12	Hut on black framework tower; 49.	Obscured by Ras Bouak on bearings less than 205°.
22328 <i>E 6572</i>	-Cap Carbon.	36° 46.6' N 5° 06.3' E	Fl.(3)W. period 20s fl. 0.1s, ec. 3.9s fl. 0.1s, ec. 3.9s fl. 0.1s, ec. 11.9s	722 220	28	White tower on black and yellow house; 33.	Visible 090°-022°, obscured by Cap Noir to westward of 333°.
22332 <i>E 6573</i>	--Auxiliary light, 150 meters 056° from main light, at foot of cliff.	36° 46.6' N 5° 06.4' E	Fl.W.R. period 1.5s	105 32	W. 10 R. 7	White round tower, square dwelling; 26.	W. 094°-114° (obsc. by shore), R.-126°, W.-316°, obsc.-094°, (295°-316° obsc. by shore).
22336 <i>E 6578</i>	Cap Sigli AVIATION LIGHT.	36° 53.5' N 4° 45.2' E	Fl.W. period 5s fl. 0.6s, ec. 4.4s	187 57	17	White round masonry tower, dwelling; 83.	Obscured by Pointe El Euch when bearing more than 270°, and by Cap Corbelin when bearing less than 093°.
DELLYS:							
22340 <i>E 6580</i>	-Cap Corbelin.	36° 54.5' N 4° 25.2' E	Fl.(2+1)W.R. period 15s	137 42	13	White round tower; gray lantern; 43.	R. 001°30'-104°30', W.-001°30'. Obscured when bearing less than 266°.
22344 <i>E 6582</i>	-Azeffoun, jetty, head.	36° 54.2' N 4° 25.3' E	Fl.R. period 2s fl. 0.5s, ec. 1.5s				Fl.G. 2s light marks E. side.
22348 <i>E 6584</i>	-Pointe de Dellys.	36° 55.4' N 3° 55.4' E	F.R.	135 41	15	Yellow tower, red lantern; 26.	Visible 066°-336°, obscured by Cap Bengut southward of 094°.
22352 <i>E 6588</i>	-Breakwater, head.	36° 54.8' N 3° 55.3' E	Oc.W. period 4s lt. 3s, ec. 1s	39 12	9	White tower, green top; 26.	Obscured by Pointe de Dellys when bearing less than 193°.
22356 <i>E 6590</i>	-S. wharf, SE. angle.	36° 54.9' N 3° 55.2' E	Oc.R. period 4s lt. 3s, ec. 1s	39 12	5	White round tower; 33.	Obscured by Pointe de Dellys when bearing less than 203°.
22360 <i>E 6592</i>	Cap Bengut.	36° 55.2' N 3° 53.5' E	Fl.(4)W. period 15s	208 63	30	White square tower; 95.	Visible 079°-287°, obscured by Pointe de Dellys southward of 270°.
22364 <i>E 6593.4</i>	Courbet-Marine, NE. pier, head.	36° 48.3' N 3° 33.6' E	Q.W.	52 16	10	White round tower on square hut; 23.	
22368 <i>E 6594</i>	Cap Matifou AVIATION LIGHT.	36° 48.7' N 3° 14.8' E	Fl.(3)W. period 15s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 8.8s	242 74	23	White square tower, dwelling; 36.	Visible 040°-310°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ALGERIA							
22372 E 6596	Tamentfoust (La Perouse), jetty, head.	36° 48.3' N 3° 13.7' E	Iso.R. period 2s	33 10	7	White round column; 23.	Obscured by Cap Matifou when bearing more than 145°.
ALGER (ALGIERS):							
22376 E 6620	-Ecueil M'Tahem.	36° 47.8' N 3° 04.1' E	Q.(3)W. period 10s	40 12	8	E. CARDINAL BYB, tower, topmark, name in white.	Radar reflector.
22380 E 6602	-Passe Nord.	36° 46.6' N 3° 04.7' E	Fl.(2)W. period 3s	75 23	20	White round tower; 56.	Visible 154°-055°. Nauphone: Mo.(N) ev. 30s (bl. 3s, si. 3s, bl. 1s, si. 23s).
22384 E 6604	--Jeteo Waiter, spur.	36° 46.8' N 3° 04.3' E	Fl.G. period 4s fl. 1s, ec. 3s	33 10	11	White truncated tower; 26.	Visible 309°-133°.
22388 E 6606	--Jeteo d l'Est, N. head.	36° 46.7' N 3° 04.2' E	Fl.R. period 4s fl. 1s, ec. 3s	33 10	12	White tower; 23.	Visible 059°-014°.
22400 E 6611	--Jeteo Mustapha, spur.	36° 45.8' N 3° 04.7' E	Iso.G. period 4s	39 12	12	White tower; 23.	Visible 295°-104°.
22404 E 6610	--Brise-lames Est.	36° 45.7' N 3° 04.5' E	Oc.R. period 4s lt. 3s, ec. 1s	39 12	13	White tower; 23.	Visible 005°-312°.
22408 E 6613	-Bassin de l'Agha, S. entrance, E. side.	36° 45.9' N 3° 04.1' E	F.G.	36 11	7	White round tower; 26.	Visible 285°-160°.
22412 E 6612	---W. side (Grand Mole).	36° 45.9' N 3° 04.2' E	F.R.	33 10	8	White round tower; 26.	Visible 065°-319°.
22416 E 6616	--(Amiral Mouchez Mole), N. entrance, W. side.	36° 46.3' N 3° 04.0' E	F.R.	33 10	9	White round column; 26.	Visible 145°-025°.
22420 E 6617	---E. side.	36° 46.3' N 3° 04.1' E	F.G.	33 10	8	White round column; 26.	Visible 340°-196°.
22424 E 6621	Cap Caxine.	36° 48.7' N 2° 57.4' E	Fl.W. period 5s fl. 0.2s, ec. 4.8s	210 64	30	Yellow square tower, dark green top, dwelling; 108.	Visible 075°-300°.
22432 E 6624	Sidi Ferruch.	36° 46.0' N 2° 50.9' E	Fl.(3)W. period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	138 42	17	White house; 79.	Various lights in port.
22434 E 6624.6	-Jeteo Principale, head.	36° 45.8' N 2° 51.1' E	Iso.W.G. period 4s	46 14	W. 11 G. 8	White column; 33.	W. 190°-129°, G.-190°.
22438 E 6629	Bou Haroun, E. jetty, head.	36° 37.4' N 2° 39.4' E	F.R.	26 8	5	White post; 19.	
22440 E 6628	Chera, AVIATION LIGHT.	36° 25.7' N 2° 53.1' E	Fl.(3+1)W. period 7s		50	Control tower.	Height is 5249 feet or 1600 meters.
TIPASA:							
22444 E 6630	-Ras el Kalia.	36° 35.9' N 2° 27.0' E	Oc.W. period 4s lt. 3s, ec. 1s	105 32	12	Yellow square tower, dark green top dwelling; 36.	Unintensified 341°-073°. Red lights on radio masts about 2 miles SE.
22448 E 6631	-New mole, N. head.	36° 35.7' N 2° 27.1' E	F.G.	26 8	6	Column; 23.	Obscured when bearing more than 154°.
22452 E 6632	-E. mole, NW. head.	36° 35.7' N 2° 27.2' E	F.R.	36 11		White post; 33.	Partially obscured by Ras el Kalia.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ALGERIA							
CHERCHELL:							
22468 <i>E 6636</i>	Fort Joinville.	36° 36.7' N 2° 11.4' E	Fl.(2+1)W. period 15s fl. 0.1s, ec. 6.2s fl. 0.1s, ec. 6.2s fl. 0.1s, ec. 2.4s	121 37	21	Round gray stone tower, black lantern; 85.	Unintensified 326°-037°30'.
22472 <i>E 6638</i>	-Jetee Joinville, head.	36° 36.8' N 2° 11.5' E	Iso.G. period 4s	33 10	7	White column; 16.	
22476 <i>E 6640</i>	-Quai Nord, E. head.	36° 36.7' N 2° 11.5' E	F.G.	23 7	5	White column; 13.	
22480 <i>E 6642</i>	-Quai Est, N. head.	36° 36.7' N 2° 11.4' E	F.R.	23 7	6	White column; 13.	
22484 <i>E 6637</i>	-Grand Hamman Shelf.	36° 36.9' N 2° 11.7' E	Q.W.	42 13	7	N. CARDINAL BY, pillar, topmark; 23.	
22486 <i>E 6644</i>	Ilot Tokikt.	36° 35.7' N 1° 50.5' E	Fl.(2)W. period 6s				
22488 <i>E 6646</i>	Cap Tenes.	36° 33.0' N 1° 20.5' E	Fl.(2)W. period 10s fl. 0.1s, ec. 2.4s fl. 0.1s, ec. 7.4s	292 89	31	White square tower on dwelling; 85.	
TENES:							
22492 <i>E 6651</i>	-Jetee, NE. head.	36° 31.7' N 1° 19.2' E	Oc.(2)R. period 6s lt. 1s, ec. 1s lt. 3s, ec. 1s	33 10	8	White tower, red lantern; 26.	Obscured 096°-193°.
22496 <i>E 6650</i>	-Jetee, NW. head.	36° 31.6' N 1° 19.1' E	Oc.(2)G. period 6s lt. 1s, ec. 1s lt. 3s, ec. 1s	33 10	7	White tower, green lantern; 23.	Obscured 116°-226°.
22500 <i>E 6648</i>	-Detached breakwater, W. head.	36° 31.7' N 1° 19.0' E	Q.W.	33 10	10	White round tower; 13.	
22504 <i>E 6649</i>	--E. head.	36° 31.8' N 1° 19.2' E	Iso.G. period 4s	33 10	6	White round tower; 13.	
22508 <i>E 6652</i>		36° 31.7' N 1° 19.6' E	Dir.F.W.G.		8	Stone hut.	W. sector 1°.
22512 <i>E 6656</i>	Pointe Colombi.	36° 26.7' N 0° 56.5' E	Fl.(3)W. period 15s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 8.8s	197 60	26	Yellow square tower on red building; 95.	
22516 <i>E 6656.5</i>	-Ile Colombi.	36° 26.3' N 0° 55.2' E	Oc.(2)G. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	95 29	5	White metal pylon; 10.	
22520 <i>E 6658</i>	Cap Ivi.	36° 06.9' N 0° 13.7' E	Fl.W. period 5s fl. 0.4s, ec. 4.6s	387 118	31	Yellow octagonal tower, red house; 59.	Visible 064°-244°.
GOLFE D'ARZEW:							
22524 <i>E 6660</i>	--N. jetty, head.	35° 56.1' N 0° 04.2' E	Fl.(4)W.R. period 12s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	56 17	W. 13 R. 10	White tower, red top; 33.	W. 234°-197°, R.-234°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ALGERIA							
-Mostaganem:							
22528 E 6664	--Mole de la Liberation.	35° 56.2' N 0° 04.6' E	Fl.G. period 4s	36 11	6	White column; 29.	
22532 E 6662	--Traverse SW., head.	35° 56.0' N 0° 04.4' E	Oc.(2)G. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	42 13	5	White column, green top; 23.	
22536 E 6661	--Jeteo Nord, spur, head.	35° 56.2' N 0° 04.5' E	Oc.(2)R. period 6s lt. 1s, ec. 1s lt. 3s, ec. 1s	36 11	7	White round tower; 23.	Visible 248°-073°.
22540 E 6672	--Ilot d'Arzew.	35° 52.4' N 0° 17.4' W	Fl.R. period 5s fl. 0.6s, ec. 4.4s	62 19	16	White tower; 40.	Obscured by Cap Carbon when bearing less than 132°.
22548 E 6669	--Jeteo Abri, head.	35° 51.6' N 0° 17.4' W	Oc.G. period 4s lt. 3s, ec. 1s	30 9	9	White column; 26.	
22552 E 6670	--Jeteo du Large, head.	35° 50.9' N 0° 17.4' W	Q.(4)W. period 6s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 2.5s	49 15	12	White tower, black top; 4.	
22556 E 6671.2	--Jeteo Sud, head.	35° 51.3' N 0° 17.9' W	Iso.R. period 2s	13 4	2	Red framework tower; 9.	
22560 E 6671	--Jeteo secondaire, on dolphin 30 meters E. of head.	35° 51.0' N 0° 17.8' W	Fl.R. period 4s fl. 1s, ec. 3s	20 6	2	Red tower; 7.	
-Bettioua:							
22572 E 6665.4	--W. breakwater, head.	35° 49.3' N 0° 15.4' W	Fl.G. period 2s fl. 0.5s, ec. 1.5s				
22576 E 6665.3	--E. breakwater, head.	35° 49.1' N 0° 14.5' W	Fl.R. period 2s fl. 0.5s, ec. 1.5s				
22577 E 6665.5	--Port de Servitude, E. breakwater.	35° 49.0' N 0° 15.7' W	Fl.(2)R. period 6s				
22578 E 6665.6	--W. breakwater.	35° 49.0' N 0° 15.8' W	Fl.(2)G. period 6s				
22580 E 6674	Cap de l'Aiguille.	35° 52.6' N 0° 29.4' W	Fl.(2)W. period 10s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 7.2s	203 62	26	White tower and dwelling; 33.	Partially obscured between 000° and 010°.
ORAN:							
22584 E 6678	-Jeteo du Large.	35° 43.2' N 0° 37.6' W	Fl.(2+1)W. period 15s	69 21	22	White pylon; 49.	Visible 062°-332°. Horn: 3 bl. ev. 60s (bl. 2s, si. 3s, bl. 2s, si. 25s, bl. 2s, si. 26s).
22588 E 6679	--Epi du Large.	35° 43.1' N 0° 37.7' W	Iso.G. period 4s	27 8	7	Black column; 23.	
22592 E 6680	--Spur N. of Ravin Blanc Mole.	35° 42.9' N 0° 38.1' W	Oc.(2+1)G. period 12s lt. 4s, ec. 1s lt. 4s, ec. 1s lt. 1s, ec. 1s	28 9	6	Black column; 23.	
22596 E 6682	--Spur opposite Mole Millerand.	35° 42.8' N 0° 38.5' W	Oc.(3)G. period 12s lt. 4.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s	28 9	6	Black column; 23.	Visible 213°-123°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ALGERIA							
22600 E 6679.4	-Traverse du Large.	35° 43.0' N 0° 37.6' W	Iso.R. period 4s	29 9	8	Red column; 26.	
22604 E 6684	-Mole du Ravin Blanc, NE. corner.	35° 42.8' N 0° 37.9' W	Oc.(2)R. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	29 9	7	Red column; 23.	Visible 079°-338°.
22608 E 6684.2	--NW. corner.	35° 42.8' N 0° 38.0' W	F.R.	29 9	7	Red column; 23.	Visible 342°30'-243°30'.
22610 E 6685	-Mole Oblique, NE. corner.	35° 42.8' N 0° 38.1' W	F.R.	29 9	3	Red column; 23.	
22612 E 6685.2	--NW. corner.	35° 42.7' N 0° 38.2' W	Iso.R. period 2s	26 8	6	White hut; 19.	
22616 E 6687	-Mole Millerand, NW. corner.	35° 42.7' N 0° 38.5' W	F.R.	29 9	7	Red column; 23.	Visible 359°-332°.
22620 E 6694.2	-Mole Jules Giraud, NW. corner.	35° 42.7' N 0° 38.9' W	F.R.	29 9	7	Red column; 23.	Visible 000°-255°.
22624 E 6694	--NE. corner.	35° 42.7' N 0° 38.8' W	Oc.(4)R. period 12s lt. 5s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s	29 9	7	Red column; 23.	
22628 E 6695	-lbn-Tofail, NE. corner.	35° 42.6' N 0° 39.1' W	Oc.W. period 4s lt. 3s, ec. 1s	30 9	10	Red column; 23.	Visible 063°-333°.
22632 E 6695.2	--NW. corner.	35° 42.6' N 0° 39.2' W	Oc.R. period 4s lt. 3s, ec. 1s	30 9	7	Red column; 23.	
22636 E 6696	-Mole du Centre, inner port, NE.	35° 42.7' N 0° 39.2' W	F.R.	29 9	7	Red column; 23.	Visible 109°-019°.
22640 E 6696.2	--SE. corner.	35° 42.6' N 0° 39.2' W	Iso.G. period 4s	29 9	6	Black column; 23.	Visible 200°-019°.
22644 E 6700	-Vieux Port, E. mole, head.	35° 42.6' N 0° 39.3' W	F.R.	19 6	7	Red column; 23.	Visible 063°-333°.
MERS EL-KEBIR:							
22648 E 6704	-Entrance Range, front.	35° 43.2' N 0° 42.3' W	Oc.(2+1)R. period 12s lt. 4s, ec. 1s lt. 4s, ec. 1s lt. 1s, ec. 1s	173 53	9	Pylon, black triangular daymark, white square; 59.	Visible 244°-274°.
22652 E 6704.1	--Rear, 330 meters 259° from front.	35° 43.2' N 0° 42.5' W	Oc.(2+1)R. period 12s lt. 4s, ec. 1s lt. 4s, ec. 1s lt. 1s, ec. 1s	220 67	16	Pylon, square black daymark with white triangle; 23.	
22656 E 6704.4	-N. jetty, head.	35° 43.6' N 0° 40.8' W	V.Q.(4)W. period 2s	43 13	9	White column; 36.	
22660 E 6704.42	--Spur, head.	35° 43.5' N 0° 41.0' W	FI.G. period 4s fl. 1s, ec. 3s	16 5	3	White pylon, green top; 10.	
22664 E 6704.5	-E. jetty, head.	35° 43.4' N 0° 40.7' W	FI.R. period 4s fl. 1s, ec. 3s	46 14	12	White pylon, red top; 39.	
22668 E 6706.4	-E. corner Mole Triangulaire.	35° 43.5' N 0° 42.1' W	Q.W.	46 14	13	White framework tower, red bands; 39.	Lights only visible within the harbor are shown from quays in northern part of harbor.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ALGERIA							
22672 E 6708	Cap Falcon.	35° 46.3' N 0° 47.9' W	Fl.(4)W. period 25s fl. 0.2s, ec. 2.9s fl. 0.2s, ec. 2.9s fl. 0.2s, ec. 2.9s fl. 0.2s, ec. 15.5s	341 104	31	White octagonal tower; 89.	The F.G. light is shown from the E. side and the F.R. light from the W. side of entrance at St. Andre.
22676 E 6712	Ile Plane.	35° 46.6' N 0° 54.1' W	Fl.(2)W. period 6s	79 24	9	ISOLATED DANGER BRB, tower; 20.	
22684 E 6714	Iles Habibas.	35° 43.3' N 1° 07.9' W	Fl.W. period 5s fl. 0.6s, ec. 4.4s	367 112	26	Red square tower on dwelling; 39.	
22688 E 6716	Beni Saf, outer breakwater, head.	35° 18.6' N 1° 23.2' W	Iso.G. period 4s	36 11	7	Black column on masonry base; 30.	Visible 072°-342°.
22692 E 6717	-E. breakwater, head.	35° 18.4' N 1° 23.3' W	Oc.(2)R. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	30 9	8	Red column; 23.	
22696 E 6718	Ile Rachgoun.	35° 19.5' N 1° 28.7' W	Fl.(2)R. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	266 81	16	Yellow square tower on hut; 49.	
22700 E 6720	-Nemours.	35° 05.9' N 1° 52.3' W	Fl.(3)W. period 15s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 8.5s	305 93	26	Round tower on center of building; 49.	Visible 058°-248° (obscured by Plateau de Touent S. when bearing more than 237°).
GHAZAOUET (NEMOURS):							
22704 E 6732	-Rocher Les Duex Freres.	35° 06.2' N 1° 52.2' W	Fl.(2)G. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	85 26	5	White tower; 13.	Tower not visible from offshore.
22708 E 6722	-Jeteo Nord, head.	35° 06.4' N 1° 52.1' W	Oc.R. period 4s lt. 3s, ec. 1s	56 17	8	Red column on tower; 49.	
22712 E 6722.2	-Head of spur, 0.4 km. ESE. of N. breakwater head.	35° 06.3' N 1° 51.8' W	F.R.	26 8	6	Red column; 19.	Visible 262°-097°.
22716 E 6726	-Mole E.	35° 06.2' N 1° 51.8' W	F.G.	26 8	5	Black column; 19.	F.G. shown from head of Mole D 076° about 357 meters.
MOROCCO							
22720 E 6757	Cap de l'Eau.	35° 08.8' N 2° 25.5' W	Fl.(2)W. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	138 42	8	White tower on octagonal building; 26.	
22721 E 6757.2	Ras Kebdana, N. breakwater.	35° 08.9' N 2° 24.9' W	Iso.G. period 6s	39 12	10	White tower; 23.	
22722 E 6757.25	-E. breakwater.	35° 08.9' N 2° 25.3' W	Iso.R. period 6s	43 13	10	White tower; 23.	
ISLAS CHAFARINAS (S.):							
22724 E 6754	-Isla Isabel II, near NW. extremity of island.	35° 11.2' N 2° 25.8' W	Fl.W. period 7s	170 52	8	White tower, dwelling; 59.	Obscured by Isla Congreso 045°-080°.
22728 E 6756	--Mole, head.	35° 10.8' N 2° 25.6' W	Fl.(2)R. period 8s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	26 8	4	Square metal pyramidal tower; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MOROCCO							
22732 E 6752	-Isla del Congreso. S. extremity.	35° 10.7' N 2° 26.3' W	Fl.R. period 4s fl. 0.5s, ec. 3.5s	118 36	5	Gray round tower; 10.	Obscured when bearing less than 110°.
MELILLA (S.):							
22736 E 6758	-Melilla.	35° 17.7' N 2° 55.9' W	Oc.(2)W. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	131 40	14	Brown round tower and annex building; 39.	
22740 E 6762	-Muelle Nordeste, SE. head.	35° 17.3' N 2° 55.4' W	Fl.G. period 4s fl. 1s, ec. 3s	105 32	7	Gray tower with green lantern on gray dwelling; 92.	
22742 E 6763	-Muelle Nordeste 3, SW. head.	35° 17.3' N 2° 55.5' W	Fl.G. period 4s	23 7	5	Green round tower; 16.	
22744 E 6757.6	-Puerto do Nador, de Beni Enzar, head.	35° 17.1' N 2° 55.2' W	Fl.(2)R. period 6s	26 8	5	Gray post.	Q.R. marks corner of Pier A and Fl.R. 1.5s marks corner of Pier B close SSW.
22748 E 6764	-Muelle Nordeste 2, W. end.	35° 17.4' N 2° 55.7' W	Fl.(2)G. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	23 7	3	Green round tower; 16.	
22749 E 6770	-Muelle de Ribera II, corner.	35° 17.5' N 2° 55.9' W	Fl.(2+1)G. period 12s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 7.5s	23 7	1	Green round tower, red band; 16.	
22752 E 6768	-Ore dock, head.	35° 17.4' N 2° 56.0' W	Fl.(2+1)R. period 12s	26 8	3	Red round tower, green band; 16.	
22754 E 6765	-Minor Embarkation Dock, breakwater, head.	35° 17.3' N 2° 55.9' W	Fl.R. period 5s fl. 0.5s, ec. 4.5s	13 4	5	Red post; 7.	Fl.G. 4s 3m 1M marks interior breakwater 120 meters SW. and Q.(3)W. 10s 4m 3M marks opposite end of breakwater.
22756 E 6773	-Muelle de Ribera I, W. jetty, head.	35° 17.5' N 2° 56.1' W	Fl.(4)G. period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	26 8	1	Green round tower; 7.	Fl.G. 5s 3m 1M marks E. entrance 60 meters NE.
22760 E 6774	-Pesquera Darsena, W. entrance, head.	35° 17.5' N 2° 56.1' W	Fl.(4)R. period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	26 8	1	Red structure; 13.	Fl.(2)G. 7s 1m 1M and Fl.R. 2.5s 1m 1M mark interior piers.
22768 E 6776	Los Farallones, on largest islet.	35° 25.7' N 2° 56.4' W	Iso.Y. period 2s	69 21	6	White and gray tower; 16.	
22772 E 6778	Cap des Trois Fourches.	35° 26.3' N 2° 57.8' W	Fl.(3+1)W. period 20s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 7.2s fl. 0.3s, ec. 7.2s	367 112	19	Gray tower on white two-story dwelling; 59.	Visible 083°-307°. Siren: 4 bl. (3+1) ev. 60s (bl. 2s, si. 3s, bl. 2s, si. 3s, bl. 2s, si. 23s, bl. 2s, si. 23s).
22776 E 6780	Anse Tramontana, Ras Baraket, N. side of entrance.	35° 24.1' N 3° 00.6' W	Oc.(2+1)W. period 12s lt. 1s, ec. 1s lt. 4s, ec. 1s lt. 4s, ec. 1s	160 49	9	White round masonry tower; 13.	
22780 E 0086	Isla de Alboran, summit, about 54 km. N. of cape.	35° 56.4' N 3° 02.2' W	Fl.(4)W. period 20s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 10s	131 40	10	Gray conical tower on dwelling; 66.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MOROCCO							
22784 E 6784	Cap Quilates (Ras Tarf), Punta Barbazun, cape, NE. side.	35° 17.0' N 3° 40.8' W	Fl.(3)W. period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	203 62	8	Yellow octagonal three-story tower; 105.	Aeromarine light.
BAIE D'AI HOCEIMA:							
22788 E 6786	-Morro Nuevo.	35° 15.7' N 3° 55.8' W	Fl.(2)W. period 10s fl. 0.1s, ec. 2.4s fl. 0.1s, ec. 7.4s	495 151	20	White support, black top; 52.	Visible 082°-275°.
22792 E 6784.4	-Al Hoceima Range No. 1, front.	35° 14.7' N 3° 55.6' W	F.R.	82 25	3	Post on white tower, red diamond daymark; 16.	
22796 E 6784.41	--Rear, about 90 meters 274° from front.	35° 14.7' N 3° 55.7' W	F.R.	155 47	3	Post on white tower, red diamond daymark; 16.	
22800 E 6784.6	--Range No. 2, front.	35° 15.1' N 3° 55.3' W	F.G.	90 27	3	Post on white tower, green diamond daymark; 16.	
22804 E 6784.61	---Rear, 140 meters 330° from front.	35° 15.1' N 3° 55.4' W	F.G.	150 46	3	Post on white tower, green diamond daymark; 26.	
22808 E 6785.2	-E. breakwater.	35° 14.9' N 3° 55.1' W	Iso.G. period 4s	46 14	4	White tower, green top; 23.	
22812 E 6785	-Los Islotes.	35° 14.9' N 3° 55.2' W	Iso.R. period 4s	49 15	5	White tower, red top; 23.	
22816 E 6788	Penon de Velez de la Gomera (S.), on islet.	35° 10.5' N 4° 18.0' W	Fl.(3)W. period 20s fl. 0.3s, ec. 3.7s fl. 0.3s, ec. 3.7s fl. 0.3s, ec. 11.7s	154 47	12	Gray tower; 20.	
22820 E 6789	Jebha.	35° 13.0' N 4° 40.7' W	Fl.(2)W. period 10s	125 38	18	Black lantern on white hut; 13.	Visible 090°-270°.
22822 E 6789.5	Oued Laou.	35° 28.3' N 5° 06.5' W	Oc.(2)W. period 6s lt. 2.4s, ec. 1.6s lt. 0.4s, ec. 1.6s	492 150	18	White round tower.	
22828 E 6820	Tetouan, AVIATION LIGHT (Sania Ramel).	35° 35.5' N 5° 19.9' W	Fl.W. period 5s	115 35	54	Tower; 52.	Occasional.
22832 E 6824	Cabo Negro.	35° 41.2' N 5° 16.4' W	Fl.(2+1)W. period 12s	443 135	20	White tower; 43.	
22836 E 6825	Port de Mediq, E. jetty, head.	35° 41.1' N 5° 18.5' W	Q.W.	39 12	13	White tower; 13.	Visible 090°-270°. Southwestward a F.G. and F.R. light, respectively, on heads of W. jetty and spur of E. jetty. Horn: 1 bl. ev. 60s.
22838 E 6830	Marina Smir, breakwater, head.	35° 45.1' N 5° 20.3' W	Iso.G. period 4s	36 11	4	White conical tower.	
CEUTA (S.):							
22840 D 2482	-Punta Almina.	35° 54.0' N 5° 16.8' W	Fl.(2)W. period 10s fl. 0.4s, ec. 2.1s fl. 0.4s, ec. 7.1s	484 148	22	White round tower on dwelling; 52.	
22844 D 2486	-(Dique de Poniente), W. breakwater, head.	35° 53.8' N 5° 18.7' W	Fl.G. period 5s fl. 1s, ec. 4s	43 13	5	Green tower; 20.	Siren: 1 bl. ev. 15s (bl. 2s, si. 13s).
	-RACON.		O(---) period 72s				

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MOROCCO							
22848 <i>D 2484</i>	-Dique de Levante), E. breakwater, head.	35° 53.8' N 5° 18.4' W	Fl.R. period 5s fl. 1s, ec. 4s	43 13	5	Red concrete tower; 23.	Visible 245°-210°.
22852 <i>D 2487</i>	-Dique de Poniente Spur, SE. corner.	35° 53.8' N 5° 18.7' W	Fl.(2)G. period 8s fl. 1s, ec. 1s fl. 1s, ec. 5s	23 7	1	Green column on green base; 13.	
22856 <i>D 2488</i>	-Muelle de Espana, NW. corner.	35° 53.6' N 5° 18.9' W	Fl.(2+1)R. period 12s fl. 1s, ec. 1s fl. 1s, ec. 3s fl. 1s, ec. 5s	23 7	3	Red post, green band; 13.	
22858 <i>D 2490.5</i>	--Breakwater.	35° 53.5' N 5° 19.1' W	Fl.(4)G. period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	20 6	1	Green post on green base; 13.	
22860 <i>D 2490</i>	-Darsena de Pescadores, extremity of breakwater.	35° 53.5' N 5° 18.8' W	Fl.(4)R. period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	26 8	1	White tower, red lantern; 20.	
22862 <i>D 2492</i>	-Muelle de Ribera.	35° 53.5' N 5° 18.6' W	Fl.G. period 4s	23 7	1	Green round mast on stone hut; 10.	Fl.(2+1)G. 21s 7m 1M shown 190 meters ENE. Fl.(3)G. 9s 7m 1M shown 400 meters ENE.
22863 <i>D 2492.5</i>	-Fishing harbor, breakwater, head.	35° 53.6' N 5° 18.2' W	Fl.(3)G. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	16 5	1	Green truncated pyramidal tower; 10.	
22864 <i>D 2493</i>	Punta Cires.	35° 54.5' N 5° 28.9' W	Fl.(3)W. period 10s fl. 0.2s, ec. 1.2s fl. 0.2s, ec. 1.2s fl. 0.2s, ec. 7s	144 44	18	Brown truncated conical tower; 26.	Visible 060°-330°.
22868 <i>D 2496</i>	Ksar es Srhir, mole, head.	35° 51.0' N 5° 33.6' W	Fl.(4)W. period 12s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	52 16	8	Column on metal framework tower; 36.	
BAIE DE TANGER:							
22872 <i>D 2498</i>	-Pointe Malabato.	35° 49.0' N 5° 44.9' W	Fl.W. period 5s fl. 0.7s, ec. 4.3s	249 76	22	Brown square tower on dwelling; 59.	
22880 <i>D 2500</i>	-Le Charf (Mount Direction).	35° 46.1' N 5° 47.3' W	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	289 88	W. 16 R. 12 G. 11	Metal cupola on brown building; 23.	G. 140°-174°30', W.-200°, R.- 225°, obsc.-140°. F.R. light on radio mast 1.1 miles SW.
22884 <i>D 2504</i>	-Yacht Quay, head.	35° 47.3' N 5° 47.9' W	Iso.G. period 4s	20 6	6	White column; 13.	
22885 <i>D 2506</i>	-Inner harbor entrance, N. mole, head.	35° 47.3' N 5° 48.2' W	F.G.	13 4	6	White column, green top.	
22886 <i>D 2507</i>	--S. mole, head.	35° 47.2' N 5° 48.2' W	F.R.	13 4	6	Red and white column.	
22888 <i>D 2502</i>	-Outer breakwater, head.	35° 47.5' N 5° 47.6' W	Fl.(3)W. period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s		14	Metal framework tower.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MOROCCO							
22892 D 2503	-South Mole (Quay 2), head.	35° 47.3' N 5° 47.8' W	Oc.(2)R. period 6s lt. 1s, ec. 1s lt. 3s, ec. 1s	23 7	6	Red and white column; 20.	
22896 D 2510	Cap Spartel.	35° 47.5' N 5° 55.3' W	Fl.(4)W. period 20s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 12.3s	299 91	30	Yellow square tower; 79.	Aeromarine light. Diaphone: (375 meters 225°) 4 bl. ev. 90s (bl. 2s, si. 3s, bl. 2s, si. 3s, bl. 2s, si. 3s, bl. 2s, si. 73s).
22900 D 2512	Tanger Boukhalf AVIATION LIGHT.	35° 43.5' N 5° 54.7' W	Fl.W. period 12s	85 26	25	Control tower; 39.	Visible 067°-115°. A Mo.(TG)G. light may also be shown. Occasional.
ASILAH (ARZILA):							
22904 D 2514	-Entrance, front.	35° 28.0' N 6° 02.0' W	F.R.	23 7		Post.	
22908 D 2514.1	--Rear, 140° from front.	35° 28.0' N 6° 01.9' W	F.R.	33 10		Iron tower.	
LARACHE:							
22912 D 2532	-Punta Nadar.	35° 11.7' N 6° 10.0' W	Fl.(2)W. period 15s fl. 0.3s, ec. 3.4s fl. 0.3s, ec. 11s	256 78	26	White octagonal tower on building; 144.	
22916 D 2522	-Jetty, W. head, N. side of entrance.	35° 12.2' N 6° 09.3' W	Oc.(4)W. period 15s lt. 2s, ec. 5.5s lt. 2s, ec. 0.5s lt. 2s, ec. 0.5s lt. 2s, ec. 0.5s	49 15	17		Horn: 4 bl. ev. 60s.
22920 D 2524	-Outer Bar Range, front.	35° 11.8' N 6° 08.3' W	Iso.W. period 2s	33 10	4	Red post, white triangular daymark, point up; 29.	Obscured 212°-352°.
22924 D 2524.1	--Rear, 200 meters 102° from front.	35° 12.1' N 6° 08.1' W	Iso.W. period 2s	49 15	4	White post, white triangular daymark, point down; 42.	Obscured 212°-352°.
22928 D 2526	-Inner Bar Range, front.	35° 11.7' N 6° 08.9' W	F.R.	66 20	2	White mast; 39.	Obscured 275°-015°30'.
22932 D 2526.1	--Rear, on church 70 meters 145°30' from front.	35° 12.1' N 6° 09.0' W	F.R.	95 29	2	Church tower; 62.	Obscured 235°30'-055°30'.
22934 D 2528	-Training wall, head.	35° 12.0' N 6° 08.8' W	F.G.				
22938 D 2537	-Sidi al Hachmi al Bahraoui.	34° 39.4' N 6° 24.8' W	Fl.(2)W. period 10s	223 68	12		
MEHDIYA:							
22940 D 2540	-Mehdia, Oued Sebu Range, front.	34° 15.8' N 6° 40.2' W	Dir.F.G.	49 15	12	Black tower, green triangular daymark, white stripes; 33.	Intensified 100°-105°.
22944 D 2540.1	--Rear, about 800 meters 102°30' from front.	34° 15.5' N 6° 39.6' W	Oc.(3)W. period 12s lt. 4.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s	243 74	16	White hut, red octagonal tower; 29.	Signal station.
22948 D 2542	-N. jetty, head.	34° 16.2' N 6° 41.1' W	Oc.(2)R. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	56 17	5	Red and white tower; 29.	Oc.(2)R. 155 meters ESE.
22952 D 2543	-S. jetty, head.	34° 16.0' N 6° 41.3' W	Iso.G. period 4s	52 16	6	White tower; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MOROCCO							
22956 D 2543.2	-Oued Sebou, S. jetty, root.	34° 15.8' N 6° 40.7' W	F.W.				
22960 D 2544	-Range No. 2, front.	34° 16.2' N 6° 39.9' W	F.R.	8 2	7	Tide gauge.	Intensified 2°30' each side of range line.
22964 D 2544.1	--Rear, about 213 meters 060° from front.	34° 16.1' N 6° 39.7' W	F.R.	15 5	8	Black and white beacon.	Intensified 2°30' each side of range line.
22968 D 2544.5	-Range No. 3, front.	34° 16.6' N 6° 38.6' W	F.G.	16 5	7	White beacon.	Intensified 2°30' each side of range line.
22972 D 2544.6	--Rear, about 320 meters 069° from front.	34° 16.4' N 6° 38.4' W	F.G.	109 33	16	White beacon.	Intensified 2°30' each side of range line.
22976 D 2545	-Range No. 4, front (downstream).	34° 16.4' N 6° 38.9' W	F.G.	15 5	7	Black and white beacon.	Intensified 2°30' each side of range line.
22980 D 2545.1	--Rear, about 274 meters 216° from front.	34° 16.2' N 6° 39.1' W	F.G.	135 41	16	White beacon.	Intensified 2°30' each side of range line.
22984 D 2545.3	-Range No. 4, front (upstream).	34° 18.7' N 6° 36.9' W	F.R.	39 12		Red and white beacon.	Intensified 2°30' each side of range line. Oc.(2)R. shown on pier about 2.4 km. 221°.
22988 D 2545.4	--Rear, about 350 meters 036° from front.	34° 18.7' N 6° 36.2' W	F.R.	88 27		Red and white beacon.	Intensified 2°30' each side of range line.
22992 D 2541	-Kenitra AVIATION LIGHT.	34° 17.6' N 6° 36.2' W	Al.Fl.(2+1)W.G. period 10s	180 55	15	Yellow tower, white top.	A F.R. light is shown from a radio tower, about 15.6 km. 194°. Occasional.
22996 D 2546	-Range No. 5, front.	34° 18.9' N 6° 36.1' W	Oc.(2)W. period 9s	10 3		White beacon.	
23000 D 2546.1	--Rear, about 162 meters 071° from front.	34° 18.8' N 6° 35.9' W	F.R.	65 20		Red and white beacon.	
23004 D 2546.6	-Beacon.	34° 18.9' N 6° 35.8' W	F.R.				
23008 D 2546.3	-Range No. 6, front.	34° 18.9' N 6° 35.2' W	F.R.				
23012 D 2546.4	--Rear, about 268 meters 087° from front.	34° 18.7' N 6° 34.9' W	F.R.	23 7		White beacon.	Oc.(2)R. 9s 128 meters SSE.
23016 D 2547	-Range No. 7, front (downstream).	34° 18.6' N 6° 34.7' W	F.R.	3 1			Oc.(2)R. 9s about 2 km. SSW.
23020 D 2547.1	--Rear, about 366 meters 018° from front.	34° 18.6' N 6° 34.5' W	F.R.	10 3		White beacon.	
23024 D 2547.4	-Range No. 7, front (upstream).	34° 16.5' N 6° 35.6' W	F.G.				
23028 D 2547.5	--Rear, about 244 meters 198° from front.	34° 16.2' N 6° 35.5' W	F.G.	39 12		Black and white beacon.	
23032 D 2548.4	--Beacon.	34° 16.0' N 6° 35.0' W	Oc.G. period 4.9s				
23036 D 2554	Rabat.	34° 02.1' N 6° 50.8' W	Oc.(2)W. period 6s lt. 1s, ec. 1s lt. 3s, ec. 1s	102 31	16	Yellow tower, black lantern; 79.	F.R. on radio mast 12 miles NE. Unintensified 290°-020°.
23048 D 2557	-Rabat Sale, AVIATION LIGHT.	34° 03.0' N 6° 46.0' W	Fl.W. period 10s fl. 1s, ec. 9s			Control tower.	Occasional.
MOHAMMEDIA:							
23054 D 2558.4	-Breakwater, head.	33° 44.1' N 7° 23.2' W	Fl.(2)W. period 10s	69 21	10	Green pylon.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MOROCCO							
23056 <i>D 2559</i>	-Ben Chergui, first Range, front.	33° 43.8' N 7° 20.7' W	Oc.(2)W.G. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	33 10	W. 14 G. 11	Black and white checkered support; 10.	W. 040°-076°, G.-126°, W.-220°.
23060 <i>D 2559.1</i>	--Rear, about 255 meters 130° from front.	33° 43.5' N 7° 20.5' W	Oc.(2)W. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	79 24		White rectangular hut, dwelling; 26.	Intensified 119°30'-140°30'. Synchronized with front.
23064 <i>D 2560</i>	-205°.	33° 41.7' N 7° 23.4' W	Dir.Q.W.R.G.	118 36	W. 12 R. 9 G. 9	Red and white striped hut; 23.	G. 183°-203°, W.-207°, R.-211°.
23068 <i>D 2563</i>	-S. jetty, N. head.	33° 42.8' N 7° 23.6' W	Oc.(2)R. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	26 8		Red and white striped tower; 20.	
23072 <i>D 2562</i>	-N. jetty, head.	33° 43.1' N 7° 23.6' W	Iso.W.G. period 4s	26 8	W. 9 G. 5	Green and white striped tower; 16.	W. 240°-191°, G.-240°.
23076 <i>D 2561</i>	-Entrance Range, front.	33° 42.8' N 7° 24.0' W	Dir.Oc.(3)W. period 12s lt. 4.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s	36 11		Black and white rectangular column; 43.	Intensified 2°30' each side of range line.
23080 <i>D 2561.1</i>	--Rear, about 110 meters 265° from front.	33° 42.8' N 7° 24.0' W	Dir.Oc.(3)W. period 12s lt. 4.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s	46 14		Black and white rectangular column; 43.	Intensified 2°30' each side of range line. Synchronized with front.
CASABLANCA:							
23084	-Approach Buoy CA1.	33° 39.5' N 7° 34.6' W	Iso.W. period 4s			SAFE WATER RW, spherical, topmark.	
	-RACON		O(- - -)				
23096 <i>D 2566</i>	-Pointe d'Oukacha.	33° 37.1' N 7° 33.9' W	V.Q.(2)W. period 2s	95 29		White square tower, red lantern; 66.	Visible 110°-255°.
	--Auxiliary light.		F.R.	79 24		Same tower; 46.	Visible 055°-110°.
23100 <i>D 2567</i>	-Roches-Noires.	33° 37.0' N 7° 35.0' W	Oc.W.R. period 4s lt. 3s, ec. 1s	69 21	W. 16 R. 12	White tower, red lantern; 62.	W. shore-090°, R.-162°, W.-shore. <i>Temporarily extinguished (2009).</i>
23104 <i>D 2570</i>	-Jetee Delure (Moulay Youssef), NE. spur.	33° 37.3' N 7° 35.7' W	Oc.(2)G. period 6s	16 5		White hut, green bands; 10.	Visible 230°-070°.
23108 <i>D 2569</i>	-SW. jetty.	33° 37.0' N 7° 35.6' W	Oc.(2)R. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	43 13		Red column on white square hut, red bands; 13.	
23112 <i>D 2570.2</i>	--S. spur.	33° 36.9' N 7° 36.4' W	Oc.G. period 2s lt. 1.5s, ec. 0.5s	20 6		Green column on white square hut, green bands; 13.	Visible 238°-070°. Horn: 2 bl. ev. 60s. Signal station.
23114 <i>D 2569.2</i>	-Container Terminal, NE. corner.	33° 36.8' N 7° 35.6' W	Fl.(3)R. period 12s				
23116 <i>D 2572</i>	-Jetee Transversale, outer head.	33° 36.8' N 7° 36.4' W	Oc.R. period 4s lt. 3.5s, ec. 0.5s	23 7		Red column on white square hut, red bands; 13.	Visible 026°-257°. <i>Temporarily extinguished (2006).</i>
23120 <i>D 2572.2</i>	-Phosphate pier, NW. corner.	33° 36.8' N 7° 36.4' W	F.R.	10 3			Visible 007°-207°. <i>Temporarily extinguished (2003).</i>
23124 <i>D 2568</i>	-Entrance Range, front.	33° 36.7' N 7° 36.3' W	Dir.Oc.W. period 4s lt. 3s, ec. 1s	98 30		Red and white banded tower; 89.	Intensified 002°30' each side of range line.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MOROCCO							
23128 <i>D 2568.1</i>	--Rear, about 770 meters from front.	33° 36.4' N 7° 36.7' W	Oc.(4)W.R. period 12s lt. 5s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s	157 48	W. 16 R. 12	White square silo, red verticle stripes; 151.	Obscured by new dock silo 138°-153°. W. shore-245°, R.-285°. <i>Temporarily extinguished (2011).</i>
23132 <i>D 2574</i>	El Hank.	33° 36.7' N 7° 39.4' W	Fl.(3)W. period 15s fl. 0.1s, ec. 2.9s fl. 0.1s, ec. 2.9s fl. 0.1s, ec. 8.9s	213 65		Round masonry tower; 161.	Siren: 3 bl. ev. 120s (bl. 3s, si. 27s, bl. 3s, si. 27s, bl. 3s, si. 57s).
23136 <i>D 2576</i>	Anfa (Cazes) AVIATION LIGHT.	33° 34.0' N 7° 40.0' W	U.Q.(2)W. period 11s fl. 0.1s, ec. 0.1s fl. 0.1s, ec. 10.7s	262 80		Iron framework; 98.	Occasional.
23140 <i>D 2582</i>	Pointe d'Azemmour.	33° 21.0' N 8° 18.0' W	Fl.(2)W.R. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	148 45	W. 15 R. 11	White tower; 46.	W. 075°-100°, R.-245°.
EL JADIDA (MAZAGAN):							
23144 <i>D 2588</i>	-Sidi Bou Afi.	33° 15.0' N 8° 31.0' W	Fl.W. period 5s fl. 0.2s, ec. 4.8s	213 65		White tower, black top; 151.	
23148 <i>D 2584</i>	-Sidi Mesbah, about 6.5 km. E. of town.	33° 15.0' N 8° 26.0' W	Oc.(2)W.R. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	164 50	W. 14 R. 11	White square tower, green top; 59.	R. shore-151°, W.-188°.
23150 <i>D 2587.5</i>	-Sidi Daoui.	33° 15.8' N 8° 30.6' W	Fl.(2)W. period 10s	46 14		White tower, black bands; 33.	
23152 <i>D 2586</i>	-N. jetty, head.	33° 16.0' N 8° 30.0' W	Iso.W.G. period 4s	23 7	W. 13 G. 9	White support, green band; 13.	G. 120°-235°, W.-120°.
23156 <i>D 2587</i>	-S. jetty, head.	33° 15.4' N 8° 29.9' W	F.R.	33 10		White column, red band.	
23160 <i>D 2590</i>	El Jorf Lasfar.	33° 09.7' N 8° 37.7' W	Fl.(3)W. period 12s	102 31		White square tower and wall, black top; 56.	
23162 <i>D 2590.5</i>	-Entrance.	33° 08.9' N 8° 37.0' W	Dir.Fl.(3)W.R.G. period 6s			6 Column.	G. 041°-042°, W.-044°, R.-045°.
23164 <i>D 2591</i>	-W. jetty, head.	33° 07.5' N 8° 38.7' W	Fl.(2)R. period 10s	59 18		Round concrete tower; 33.	
23168 <i>D 2591.2</i>	-Breakwater, extremity.	33° 07.6' N 8° 38.5' W	F.R.	49 15		Round concrete tower; 33.	
23172 <i>D 2591.4</i>	-E. jetty, head.	33° 08.0' N 8° 38.0' W	Fl.G. period 4s fl. 1s, ec. 3s	46 14		8	
23176 <i>D 2592</i>	Beddouza.	32° 32.6' N 9° 17.0' W	Fl.(2)W. period 10s fl. 0.4s, ec. 1.6s fl. 0.4s, ec. 7.6s	213 65		Turret on fort flanked by 4 towers, 2 with green and yellow bands; 62.	
SAFI:							
23180 <i>D 2595</i>	-Pointe de la Tour , about 2.4 km. 293° from Sidi Bou Zid Mosque.	32° 20.0' N 9° 17.0' W	Oc.(4)W. period 12s lt. 5s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s	295 90		Yellow square tower; 39.	F.R. lights on radio mast 0.9 km. 016°. Visible 302°-164°.
23184 <i>D 2595.4</i>	-0.4 km. ENE. from jeteo Transversale, Nord.	32° 19.0' N 9° 15.1' W	Dir.Fl.(2)W.R.G. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	36 11	W. 14 R. 13 G. 13	Black and white banded tower; 26.	G. 085°-097°, W.-103°, R.-113°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MOROCCO							
23188 <i>D 2599</i>	-Inner entrance Range, front.	32° 19.0' N 9° 15.0' W	Q.W.	36 11	12	White column, red bands; 29.	Visible 060°-240°.
23192 <i>D 2599.1</i>	--Rear, about 150 meters 150° from front.	32° 18.3' N 9° 14.8' W	Q.W.	46 14	12	White tower, red bands; 36.	Visible 060°-240°. Synchronized with front.
23196 <i>D 2596</i>	-Grande Jetee, head.	32° 19.0' N 9° 15.0' W	Iso.G. period 4s	39 12	8	White pylon, green top; 26.	Radar reflector.
23200 <i>D 2596.2</i>	--Elbow.	32° 18.7' N 9° 15.2' W	F.G.	19 6	3	White and green tank; 16.	Visible 133°-335°.
23201 <i>D 2596.6</i>	--Spur, W. side of entrance.	32° 18.5' N 9° 15.1' W	F.G.	33 10	6		
23204 <i>D 2598</i>	-Jetee Transversale, N.	32° 18.8' N 9° 15.1' W	Oc.R. period 4s lt. 3s, ec. 1s	23 7	6	Gray hut, red top; 13.	
23208 <i>D 2600</i>	-Muelle de Fosfatos, head.	32° 18.6' N 9° 15.0' W	F.R.	26 8	7	White concrete hut, red lantern; 16.	Visible 323°-143°.
23212 <i>D 2600.2</i>	--Root.	32° 18.6' N 9° 14.7' W	Oc.(2)W. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	92 28	12	Yellow square tower; 89.	Visible 012°-145°. Two F.R. lights are shown from chimney about 3.52 km. SSE.
23214 <i>D 2601</i>	Cap Hadid.	31° 41.9' N 9° 39.8' W	Fl.(2)W. period 15s	157 48	20	Framework tower; 98.	
ESSAOUIRA:							
23216 <i>D 2602</i>	-Sidi Magdul.	31° 29.6' N 9° 46.0' W	Oc.W.R.G. period 4s	62 19	W. 14 R. 11 G. 9	White square tower; 49.	G. 034°-124°, W.-136°, R.- 214°, W.-260°, W. (unint.)- 350°, W.-034°.
23220 <i>D 2602.1</i>	-Jetee, SW. head.	31° 30.5' N 9° 46.6' W	Q.W.	26 8	12	White column, black band; 29.	Visible 208°-108°. Nautophone: 1 bl. ev. 60s.
23224 <i>D 2602.2</i>	-Lighter basin, W. side of entrance, (Jetee SW.).	31° 30.6' N 9° 46.6' W	Oc.(2)R. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	10 3	6	White dwelling, red hut; 6.	Visible 187°-360°.
23228 <i>D 2602.4</i>	-E. side of entrance, (Jetee E.)	31° 30.6' N 9° 46.5' W	Fl.G. period 4s fl. 1s, ec. 3s	10 3	5	White square dwelling, black hut; 6.	
23232 <i>D 2604</i>	Cap Sim.	31° 24.0' N 9° 50.0' W	Fl.(3)W. period 15s fl. 0.6s, ec. 2.4s fl. 0.6s, ec. 2.4s fl. 0.6s, ec. 8.4s	338 103	21	White and green banded tower of fort; 65.	Reserve light Fl.(3)W. 12s.
23236 <i>D 2608</i>	Cap Rhir.	30° 38.0' N 9° 53.0' W	Fl.W. period 5s fl. 0.4s, ec. 4.6s	279 85	22	White tower; 135.	
AGADIR:							
23244 <i>D 2611</i>	-W. jetty, head.	30° 25.0' N 9° 38.0' W	Oc.(2)R. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	26 8	8	White and red square tower; 23.	Horn: 2 bl. ev. 30s (bl. 2s, si. 3s, bl. 2s, si. 23s).
23248 <i>D 2612</i>	-SE. breakwater, head.	30° 25.1' N 9° 37.8' W	Fl.(2)G. period 6s	16 5	4	White structure, green band; 16.	
23253 <i>D 2613</i>	-Port Anza, W. breakwater, head.	30° 25.2' N 9° 38.6' W	Fl.R. period 4s		5	White tower, red band; 28.	
23254 <i>D 2613.2</i>	--E. breakwater, head.	30° 25.5' N 9° 38.5' W	Fl.G. period 4s		5	White tower, green band; 28.	
23255 <i>D 2614</i>	Inezgane AVIATION LIGHT.	30° 22.8' N 9° 33.4' W	Fl.W. period 3s	118 36	17		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
MOROCCO							
23255.5 <i>D 2615</i>	Cap d'Aglou.	29° 40.0' N 9° 58.0' W	Fl.(2+1)W. period 12s fl. 1s, ec. 1s fl. 1s, ec. 3s fl. 1s, ec. 5s	174 53	20	Metal pylon; 66.	
	IFNI:						
23256 <i>D 2616</i>	-Sidi Ifni.	29° 23.0' N 10° 11.0' W	Fl.(1+3)W. period 30s fl. 0.3s, ec. 11s fl. 0.3s, ec. 3.4s fl. 0.3s, ec. 3.4s fl. 0.3s, ec. 11s	187 57	25	Square brown tower on building; 43.	
23257 <i>D 2616.2</i>	--Overhead transporter, head.	29° 21.9' N 10° 12.1' W	Fl.W. period 4s fl. 1s, ec. 3s	33 10	5		
23258 <i>D 2616.4</i>	--Jetty, head.	29° 21.5' N 10° 12.1' W	Iso.R. period 4s	36 11	5		Fl.R. 3s marks inner jetty head.
23260 <i>D 2616.6</i>	Cap Draa.	28° 40.7' N 11° 07.4' W	Fl.(2)W. period 10s	285 87	25	White metal pylon, black bands; 98.	Reserve light range 16M.
23264 <i>D 2617</i>	Cabo Nachtigal (Tan Tan).	28° 30.0' N 11° 21.0' W	Fl.W. period 5s	118 36	15	Red tower, white band; 23.	Visible 305°-215°.
23270 <i>D 2619</i>	Tarfaya.	27° 55.3' N 12° 56.3' W	Fl.(2)W. period 10s		25	Masonry tower; 42.	3 F.R. (vert.) on radio mast 1.5 miles NNE.
23272	-Tarfaya, channel, port side.	27° 57.0' N 12° 55.0' W	Fl.R. period 2s		2		

Section 16

Islands of the Eastern North Atlantic

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ACORES (AZORES) (P.)							
ILHA DO CORVO:							
23280 <i>D 2712</i>	-Ponta Negra, S. point of island.	39° 40.0' N 31° 06.7' W	Fl.W. period 5s fl. 1s, ec. 4s	72 22	6	White hexagonal concrete tower; 13.	Visible 236°-256° and 261°- 119°.
23282	-Porto da Casa, pier, head.	39° 40.3' N 31° 06.6' W	Fl.R. period 4s fl. 1s, ec. 3s	26 8	3	Pole with red and white bands; 13.	
23284 <i>D 2714</i>	-Canto de Carneira, NE. point.	39° 42.8' N 31° 05.3' W	Fl.W. period 6s fl. 0.5s, ec. 5.5s	781 238	9	Gray round tower; 26.	
ILHA DAS FLORES:							
23288 <i>D 2704</i>	-Ponta das Lajes.	39° 22.4' N 31° 10.1' W	Fl.(3)W. period 28s fl. 0.3s, ec. 4s fl. 0.3s, ec. 4s fl. 0.3s, ec. 19.1s	325 99	26	White tower, red cupola and dwelling; 52.	Visible 263°-054°.
23289 <i>D 2705</i>	--Porto das Lajes.	39° 22.7' N 31° 09.7' W	Fl.(2)R. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 8s	33 10	2	White mast.	
23292 <i>D 2706</i>	-Faja Grande, W. side of island.	39° 27.5' N 31° 15.5' W	Fl.W. period 5s fl. 1s, ec. 4s	43 13	4	Red hut on piles; 20.	F.R. lights are shown at the tops of radio masts at Lajes.
23296 <i>D 2703</i>	-Porto das Pocas Range, front.	39° 27.0' N 31° 07.4' W	Fl.R. period 3s fl. 1s, ec. 2s	30 9	5	White post, red bands; 16.	
23300 <i>D 2703.1</i>	--Rear, 290° from front.	39° 27.0' N 31° 07.4' W	Fl.R. period 3s fl. 1s, ec. 2s	59 18	5	White post, red bands; 16.	
23304 <i>D 2702</i>	-Ponta Santa Cruz, E. side of island.	39° 27.2' N 31° 07.2' W	Fl.R. period 5s	46 14	4	Pillar, red and white bands; 20.	Visible 156°-308°.
23308 <i>D 2702.4</i>	-Porto Velho Range, front.	39° 27.2' N 31° 07.3' W	L.Fl.G. period 5s fl. 2s, ec. 3s	43 13	4	Metal structure on wall.	
23312 <i>D 2702.41</i>	--Rear, 261°12' from front.	39° 27.2' N 31° 07.3' W	L.Fl.G. period 5s fl. 2s, ec. 3s	49 15	4	Metal structure on a house.	
23316 <i>D 2708</i>	-Ponta do Albarnaz.	39° 31.0' N 31° 13.6' W	Fl.W. period 5s fl. 0.2s, ec. 4.8s	341 104	22	White round masonry tower, dwelling; 49.	Visible 035°-258°.
ILHA DO FAIAL:							
23318 <i>D 2693</i>	-Almoxarife cables, beach.	38° 33.1' N 28° 36.6' W	Dir.Fl.(2)R. period 8s fl. 1s, ec. 1s fl. 1s, ec. 5s	23 7	9	White tower, red bands; 13.	Visible 224°-225°. Marks submarine cable area. Daytime range 4.7M.
23320 <i>D 2694</i>	-Horta, breakwater, head.	38° 32.0' N 28° 37.3' W	Fl.R. period 3s fl. 1s, ec. 2s	69 21	11	Red lantern on white structure; 49.	
23324 <i>D 2696</i>	--Sea wall, Boa Viagem.	38° 32.2' N 28° 37.6' W	Iso.G. period 1.5s	43 13	9	Prismatic column, red stripe; 23.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ACORES (AZORES) (P.)							
23328 <i>D 2697</i>	-Harbor Range, front.	38° 31.7' N 28° 37.6' W	Iso.G. period 2s	23 7	2	Red mast; 16.	
23332 <i>D 2697.1</i>	--Rear, 196° from front.	38° 31.7' N 28° 37.6' W	Iso.G. period 2s	33 10	2	White mast, red stripe; 16.	
23336 <i>D 2698</i>	-Feteira Range, front.	38° 31.0' N 28° 41.0' W	Oc.G. period 6s lt. 4s, ec. 2s	26 8	5	Iron post; 13.	
23340 <i>D 2698.1</i>	--Rear.	38° 31.0' N 28° 41.0' W	Oc.G. period 6s lt. 4s, ec. 2s	30 9	5	Iron post; 13.	
23342 <i>D 2697.5</i>	-Pim cables, Porto Pim.	38° 31.5' N 28° 38.5' W	Fl.(2)R. period 8s fl. 1s, ec. 1s fl. 1s, ec. 5s	30 9	9	White tower, red bands; 13.	Visible 345°-013°. Marks submarine cable area. Daytime range 1.7M.
23344 <i>D 2692</i>	-Ponta da Ribeirinha.	38° 35.7' N 28° 36.2' W	Fl.(3)W. period 20s fl. 0.5s, ec. 3s fl. 0.5s, ec. 3s fl. 0.5s, ec. 12.5s	446 136	12	Metal post; 20.	
23346 <i>D 2700</i>	-Ponta dos Cedros.	38° 38.3' N 28° 43.3' W	Fl.W. period 7s	489 149	12	White tower; 10.	
23348 <i>D 2699</i>	-Vale Formoso, SW. side of island.	38° 34.9' N 28° 48.7' W	L.Fl.(2)W. period 10s fl. 2s, ec. 2s fl. 2s, ec. 4s	374 114	13	White truncated tower, red cupola; 46.	
ILHA DO PICO:							
23360 <i>D 2687.2</i>	-Madalena, N. mole.	38° 32.2' N 28° 32.0' W	Oc.R. period 3s lt. 2s, ec. 1s	39 12	10	Red tower, white bands; 26.	
23364 <i>D 2687.5</i>	-Approach Range, front.	38° 32.0' N 28° 31.9' W	Fl.G. period 6s fl. 1.5s, ec. 4.5s	52 16	5	White post, red stripes.	
23368 <i>D 2687.51</i>	--Rear, 150 meters 139° from front.	38° 31.9' N 28° 31.8' W	Fl.G. period 6s	68 21	5	White post, red stripes.	
23372 <i>D 2684</i>	-Areia Larga Anchorage Range, front.	38° 31.6' N 28° 32.2' W	Iso.R. period 4s	36 11	7	White column; 13.	Extinguished in bad weather.
23376 <i>D 2684.1</i>	--Rear, 20 meters 082° from front.	38° 31.6' N 28° 32.1' W	Iso.R. period 4s	43 13	6	Red lantern on roof of house; 13.	Extinguished in bad weather.
23377 <i>D 2691.4</i>	Calhau Range, front.	38° 29.2' N 28° 32.4' W	Oc.R. period 3s lt. 2s, ec. 1s	32 10	6	Illuminated post.	
23377.1 <i>D 2691.41</i>	--Rear, 122° from front.	38° 29.2' N 28° 32.3' W	Oc.R. period 3s lt. 2s, ec. 1s	39 12	6	Column on house.	
23380 <i>D 2691</i>	-Ponta do Sao Mateus.	38° 25.4' N 28° 27.0' W	Fl.W. period 5s	108 33	13	White tower, red cupola; 43.	Visible 284°-118°.
23385 <i>D 2690.9</i>	-Cabos Galeao.	38° 25.5' N 28° 25.4' W	Fl.(2)R. period 8s fl. 1s, ec. 1s fl. 1s, ec. 5s	30 9	9	White post, red bands; 13.	Visible 315°-010°. Marks submarine cable area.
23392 <i>D 2690.6</i>	-Lajes Range, front.	38° 23.9' N 28° 15.2' W	Oc.R. period 6s lt. 5s, ec. 1s	59 18	7	White wall, yellow band.	
23396 <i>D 2690.7</i>	--Rear, 085° from front.	38° 23.9' N 28° 15.2' W	Oc.R. period 6s lt. 5s, ec. 1s	79 24	7	Metal base, white daymark, yellow stripe.	
23400 <i>D 2690.15</i>	-Santa Cruz das Ribeiras, pier, head.	38° 24.4' N 28° 11.3' W	Fl.R. period 3s fl. 1s, ec. 2s	46 14	14	White tower, red bands; 28.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ACORES (AZORES) (P.)							
23404 <i>D 2690</i>	-Ponta da Ilha.	38° 24.8' N 28° 01.9' W	Fl.(3)W. period 15s fl. 0.3s, ec. 6s fl. 0.3s, ec. 2s fl. 0.3s, ec. 6.1s	95 29	24	White square tower, red lantern and dwelling; 62.	Visible 166°-070°.
23408 <i>D 2688</i>	-Cais do Pico, N. side of island.	38° 31.7' N 28° 19.3' W	Oc.R. period 6s lt. 4s, ec. 2s	10 3	6	Concrete structure; 16.	Indicates anchorage when bearing 222°.
23410 <i>D 2688.2</i>	--On mole.	38° 31.9' N 28° 19.2' W	Fl.G. period 3s fl. 1s, ec. 2s	23 7	2	Truncated conical tower, white and green bands; 13.	Visible 120°-030°.
23420 <i>D 2690.02</i>	-Manhenha Range, front.	38° 24.6' N 28° 02.2' W	Fl.R. period 5s fl. 1s, ec. 4s	42 13	6	Iron post; 6.	
23424 <i>D 2690.03</i>	--Rear, 19 meters from front.	38° 24.6' N 28° 02.2' W	Fl.R. period 5s fl. 1s, ec. 4s	66 20	6	On E. corner of building; 13.	
23428 <i>D 2689</i>	-Prainha.	38° 28.5' N 28° 12.1' W	Fl.R. period 4s fl. 1s, ec. 3s	46 14	7	Red column, white bands; 10.	Visible 128°-287°.
23432 <i>D 2689.4</i>	-Santo Amaro Range, front.	38° 27.4' N 28° 10.1' W	Oc.R. period 6s lt. 4s, ec. 2s	23 7	7	Red post, white bands; 20.	
23436 <i>D 2689.41</i>	--Rear.	38° 27.4' N 28° 10.1' W	Oc.R. period 6s lt. 4s, ec. 2s	30 9	7	Red post, white bands; 20.	
23440 <i>D 2690.1</i>	-Calheta de Nesquim Range, front.	38° 24.2' N 28° 04.7' W	Fl.R. period 5s fl. 1.5s, ec. 3.5s	42 13	7	White column, red lantern; 3.	
23444 <i>D 2690.11</i>	--Rear, 30 meters from front.	38° 24.2' N 28° 04.7' W	Fl.R. period 5s fl. 1.5s, ec. 3.5s	59 18	7	Red metal column; 20.	
ILHA DE SAO JORGE:							
23448 <i>D 2683</i>	-Ponta Rosais.	38° 45.2' N 28° 18.8' W	Fl.(2)W. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	857 261	8	Round tower on building.	
23456 <i>D 2682.2</i>	--Cais das Velas.	38° 40.7' N 28° 12.3' W	Fl.R. period 5s fl. 0.5s, ec. 4.5s	52 16	7	Truncated tower, red and white stripes.	
23457 <i>D 2682.3</i>	--Cabos Velas.	38° 40.7' N 28° 12.3' W	Fl.(2)R. period 8s fl. 1s, ec. 1s fl. 1s, ec. 5s	52 16	9	White post, red bands; 13.	Visible 033°-061°. Marks submarine cable area.
23460 <i>D 2682.4</i>	--Central anchorage Range, front.	38° 40.7' N 28° 12.5' W	Iso.R. period 5s	43 13	6	Column, red and white stripes.	
23464 <i>D 2682.5</i>	---Rear, Ermida do Livramento, W. of the port, 300° from front.	38° 40.9' N 28° 13.0' W	Oc.R. period 6s lt. 5s, ec. 1s	164 50	7	Small chapel; 26.	With Porto das Velas Light bearing 348° indicates anchorage.
23466 <i>D 2681.8</i>	-Quimada.	38° 40.1' N 28° 11.6' W	Fl.W. period 5s fl. 1.5s, ec. 3.5s	164 50	10	White column; 20.	
23468 <i>D 2681.5</i>	-Urzelina.	38° 38.6' N 28° 07.7' W	Fl.R. period 6s fl. 1.5s, ec. 4.5s	33 10	6	2 posts on white wall; 13.	
23472 <i>D 2680.2</i>	-Ponta da Forcada.	38° 35.7' N 27° 58.9' W	Fl.W. period 3s fl. 1s, ec. 2s	197 60	6	Tower, red and white bands; 15.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ACORES (AZORES) (P.)							
23476 <i>D 2681</i>	-Calheta, wharf.	38° 36.1' N 28° 00.6' W	Oc.R. period 3s fl. 2s, ec. 1s	59 18	7	White concrete structure; 10.	
23477 <i>D 2681.2</i>	--Mole.	38° 36.0' N 28° 00.4' W	Fl.R. period 3s fl. 1s, ec. 2s	33 10	10	Truncated tower, red and white bands; 20.	
23480 <i>D 2680</i>	-Ponta do Topo.	38° 33.0' N 27° 45.3' W	Fl.(3)W. period 20s fl. 0.1s, ec. 3.2s fl. 0.1s, ec. 3.2s fl. 0.1s, ec. 13.3s	190 58	20	White tower, red cupola and dwellings; 52.	Visible 133°-033°.
23482 <i>D 2683.5</i>	-Norte Grande.	38° 40.8' N 28° 03.1' W	Fl.W. period 6s fl. 1s, ec. 5s		12	Round tower, red and white stripes; 20.	
23484 <i>D 2670</i>	-Ponta do Carapacho.	39° 00.8' N 27° 57.4' W	Fl.(2)W. period 10s fl. 1s, ec. 1s fl. 1s, ec. 7s	627 191	15	Red tower, cupola and building; 46.	Visible 165°-098°.
ILHA GRACIOSA:							
23488 <i>D 2674</i>	-Fort do Santo, N. side of island.	39° 05.3' N 28° 00.5' W	Fl.R. period 4s fl. 1s, ec. 3s	46 14	6	Red tower; 20.	Aero Radiobeacon 0.6 mile SSW.
23489 <i>D 2672.3</i>	-Vila da Praia Range, front.	39° 03.2' N 27° 58.2' W	Fl.R. period 2s fl. 0.5s, ec. 1.5s	30 9	6	White tower, red bands; 13.	Visible 140°54'-112°54'.
23489.1 <i>D 2672.35</i>	--Rear, 306°54' from front.	39° 03.2' N 27° 58.2' W	Iso.R. period 4s	49 15	6	White column, red bands; 13.	Visible 140°54'-112°54'.
23490 <i>D 2672.5</i>	-Ponta da Rochela.	39° 03.2' N 27° 58.0' W	Fl.G. period 3s fl. 1s, ec. 2s	52 16	9	White tower, green bands; 13.	
23491 <i>D 2672.7</i>	-Praia.	39° 03.1' N 27° 58.3' W	Fl.(2)R. period 8s fl. 1s, ec. 1s fl. 1s, ec. 5s	46 14	9	Red lantern on terrace of building.	Visible 264°-292°. Marks submarine cable area.
23496 <i>D 2677</i>	-Folga, on headland.	39° 01.5' N 27° 58.1' W	L.Fl.W. period 5s fl. 2s, ec. 3s	102 31	4	Support on a white building; 16.	
23500 <i>D 2676</i>	-Ponta da Barca.	39° 05.6' N 28° 03.0' W	Fl.W. period 7s fl. 0.4s, ec. 6.6s	233 71	20	White round tower, black bands; hut; 75.	Visible 029°-031°, 035°-251°, 267°-287°.
ILHA TERCEIRA:							
23504 <i>D 2668</i>	-Ponta da Serreta.	38° 46.0' N 27° 22.5' W	Fl.W. period 6s fl. 1s, ec. 5s	312 95	12	White tower, red bands; 45.	
23508 <i>D 2669</i>	-Biscoitos.	38° 48.1' N 27° 15.5' W	Oc.W. period 6s fl. 4s, ec. 2s	43 13	9	White column, red bands; 10.	
23512 <i>D 2660</i>	-Vila Nova.	38° 46.9' N 27° 08.5' W	Iso.W. period 6s	36 11	9	Truncated pyramid; 7.	
23516 <i>D 2661</i>	-Lajes AVIATION LIGHT.	38° 45.6' N 27° 04.8' W	Al.Fl.W.G. period 10s	436 133	W. 28 G. 23	Wooden framework tower; 62.	
23524 <i>D 2662</i>	-Praia da Vitoria, N. mole, head.	38° 43.6' N 27° 03.1' W	Fl.W. period 5s fl. 1s, ec. 4s	39 12	10	Post, black and white bands; 30.	
23525 <i>D 2662.5</i>	--S. mole, head.	38° 43.2' N 27° 02.9' W	Fl.R. period 3s fl. 1s, ec. 2s		8	White concrete tower, red bands; 52.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ACORES (AZORES) (P)							
23528 <i>D 2663.5</i>	-Ponta de Sao Fernando, at Rivera Seca.	38° 40.6' N 27° 03.9' W	Oc.R. period 3s lt. 2s, ec. 1s	20	6	6 Black square truncated pyramid; 10.	
23532 <i>D 2664</i>	-Ponta das Contendas.	38° 38.7' N 27° 05.1' W	Fl.(4)W.R. period 15s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 7.2s	177 54	23	White tower, red cupola and dwelling; 43.	W. 220°-020°, R.-044°, W.- 072°, R.-093°.
23536 <i>D 2665</i>	-Porto Judeu.	38° 38.9' N 27° 07.0' W	Fl.W. period 3s fl. 1s, ec. 2s	92 28	7	Truncated pyramid; 7.	
23540 <i>D 2666</i>	-Bahia Angra, Ponte de Sto. Antonio (Monte Brasil).	38° 38.6' N 27° 13.1' W	Oc.W.R. period 10s lt. 6s, ec. 4s	72 22	12	Round column, red and white bands; 16.	R. 191°-295°, W.-057°. 2 Oc.R. 2s and 2 F.R. on radio mast 1.5 miles 350°.
23544 <i>D 2666.2</i>	--Angra do Heroismo entrance Range, front.	38° 39.2' N 27° 13.3' W	Fl.R. period 4s fl. 1s, ec. 3s	98 30	7	Misericordia Church, E. tower; 65.	
23548 <i>D 2666.21</i>	--Rear, about 140 meters 342° from front.	38° 39.3' N 27° 13.1' W	Oc.R. period 6s lt. 4s, ec. 2s	180 55	7	Yellow metal structure.	
23556 <i>D 2666.5</i>	--Porto Pipas, mole, head.	38° 39.0' N 27° 12.9' W	Fl.G. period 3s	49 15	6	Green column, white bands; 16.	Fl.(2)R. 6s 9m 3M light marks marina entrance 150 meters NW.
23558 <i>D 2666.1</i>	-Cabos Silveira.	38° 39.4' N 27° 14.0' W	Fl.(2)R. period 8s fl. 1s, ec. 1s fl. 1s, ec. 5s	95 29	9	White post, red bands; 13.	Visible 024°-052°. Marks submarine cable area.
23560 <i>D 2666.7</i>	-Sao Mateus.	38° 39.3' N 27° 16.1' W	Iso.W.R. period 6s	39 12	W. 10 R. 7	White column, red bands; 10.	R. 270°-296°, W.-067°.
23564 <i>D 2667</i>	-Cinco Ribeiras.	38° 40.6' N 27° 19.8' W	L.Fl.W. period 6s fl. 2s, ec. 4s	75 23	10	White tower, red bands; 7.	
ILHA DE SAO MIGUEL:							
23568 <i>D 2655</i>	-Ponta da Ferraria.	37° 51.2' N 25° 51.1' W	Fl.(3)W. period 20s fl. 0.4s, ec. 3.6s fl. 0.4s, ec. 3.6s fl. 0.4s, ec. 11.6s	351 107	27	White tower, red cupola and dwelling; 59.	Visible 339°-174°. Reserve light range 25M. Signal station.
23572 <i>D 2655.4</i>	-Mosteiros.	37° 53.9' N 25° 49.4' W	Oc.R. period 3s lt. 2s, ec. 1s	33 10	6	White column, red bands; 13.	Visible 090°-155°.
23576 <i>D 2655.6</i>	-Bretanha.	37° 54.9' N 25° 45.3' W	L.Fl.W. period 6s fl. 2s, ec. 4s	230 70	4	Lantern on red column; 3.	
23580 <i>D 2654</i>	-Santa Clara.	37° 43.9' N 25° 41.2' W	L.Fl.W. period 5s fl. 2s, ec. 3s	88 27	15	Red lantern on structure; 26.	Visible 282°-102°.
-Ponta Delgada Harbor:							
23584 <i>D 2647</i>	--Breakwater, E. extremity.	37° 44.2' N 25° 39.4' W	L.Fl.R. period 6s fl. 2s, ec. 4s	56 17	10	White tower, red bands; 23.	
23593 <i>D 2648.5</i>	--Naval Club.	37° 44.5' N 25° 39.4' W	Fl.(2)W.R.G. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	82 25	10	On terrace; 49.	G. 301.5°-306.5°, W.-311.5°, R.-316.5°. Daytime range 1M.
23594 <i>D 2648</i>	--Marina.	37° 44.4' N 25° 39.5' W	Fl.G. period 3s fl. 1s, ec. 2s	43 13	10	White tower, green bands; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ACORES (AZORES) (P.)							
23595.1 <i>D 2648.7</i>	--Portas Mar, E.	37° 44.3' N 25° 39.6' W	Fl.(2)R. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	10 3	3	White tower, red bands; 10.	
23595.2 <i>D 2648.72</i>	--W.	33° 44.2' N 25° 39.8' W	Fl.(3)G. period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 10.5s	10 3	3	White tower, green bands; 10.	
23598 <i>D 2652</i>	--S. Bras Fort.	37° 44.1' N 25° 40.4' W	Fl.(4)W.R.G. period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	46 14	10	Lantern; 46.	G. 259°-261°, W.-263°, R.- 265°. Daytime range 1M.
23599 <i>D 2649.5</i>	--Quebra-mar, floating breakwater, S. end.	37° 44.3' N 25° 40.0' W	Q.(6)+L.Fl.W. period 15s		3	S. CARDINAL YB, beacon, topmark; 7.	
23601 <i>D 2649.7</i>	--Pescas, fishing harbor.	37° 44.2' N 25° 40.1' W	Fl.(4)R. period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 8.5s	10 3	3	White tower, red bands; 10.	
23604 <i>D 2654.2</i>	-AVIATION LIGHT, at airport.	37° 44.7' N 25° 42.5' W	Al.Fl.W.G. period 10s	276 84	W. 28 G. 23	Control tower.	Visible 282°-124°. Occasional.
23606 <i>D 2645.5</i>	-Cabos Populo, Populo Beach.	37° 45.0' N 25° 37.1' W	Fl.(2)R. period 8s fl. 1s, ec. 1s fl. 1s, ec. 5s	30 9	9	White post, red bands; 13.	Visible 349°-031°. Marks submarine cable area.
23608 <i>D 2646</i>	-Lagoa.	37° 44.6' N 25° 34.5' W	Fl.R. period 3s fl. 1s, ec. 2s	30 9	6	Metal column, red and white bands; 13.	
23609 <i>D 2645.45</i>	-Cabos Lagoa.	37° 44.6' N 25° 34.2' W	Fl.(2)R. period 8s fl. 1s, ec. 1s fl. 1s, ec. 5s	23 7	9	White post, red bands; 13.	Visible 339°-007°. Marks submarine cable area.
23612 <i>D 2645</i>	-Porto da Caloura, mole, S. extremity.	37° 42.8' N 25° 29.8' W	Fl.W. period 4s fl. 1.5s, ec. 2.5s	23 7	9	Column, red and white band; 7.	2 Oc. G. 3s lights in line 332°24' lead into port.
	-Vila Franca do Campo:						
23626 <i>D 2642.5</i>	--Marina, pier, head.	37° 42.8' N 25° 25.8' W	Fl.G. period 4s fl. 1s, ec. 3s	39 12	9	White tower, green bands; 30.	
23628 <i>D 2642</i>	-Ponta da Garca.	37° 42.8' N 25° 22.2' W	L.Fl.W.R. period 5s fl. 2s, ec. 3s	331 101	W. 16 R. 13	Tower and dwelling; 46.	W. 240°-080°, R.-100°.
23630 <i>D 2641</i>	-Ribeira Quente, mole.	37° 44.0' N 25° 18.0' W	Fl.G. period 4s fl. 1s, ec. 3s	20 6	5	White tower, green bands.	
23636 <i>D 2640</i>	-Ponta do Arnel AVIATION LIGHT, E. side of island.	37° 49.3' N 25° 08.2' W	Fl.W. period 5s fl. 0.2s, ec. 4.8s	217 66	25	White tower, red cupola on dwelling; 49.	Visible 157°-355°. Reserve light range 21M. Aeromarine light.
23640 <i>D 2659</i>	-Ponta do Cintrao.	37° 50.6' N 25° 29.3' W	Fl.(2)W. period 10s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	387 118	14	Tower and dwelling; 46.	
23644 <i>D 2659.4</i>	-Port Formoso.	37° 49.3' N 25° 25.6' W	Fl.W. period 4s fl. 1.5s, ec. 2.5s		6	Red lantern on white building, red bands; 10.	
23648 <i>D 2656</i>	-Porto de Capelas, N. side of island.	37° 50.4' N 25° 41.2' W	Fl.(2)R. period 12s fl. 1.5s, ec. 2s fl. 1.5s, ec. 7s	377 115	8	White tower, red bands; 23.	Visible 153°-281°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ACORES (AZORES) (P.)							
23652 D 2657	-Rabo de Peixe Igreja do Bon Jesus.	37° 48.9' N 25° 34.9' W	Iso.W.R. period 5s	197 60	5	Top of tower of Bom Jesus Church; 92.	R. 090°-120°, W.-175°, R.-190°.
ILHA DE SANTA MARIA:							
23664 D 2632	-Goncalo Velho.	36° 55.6' N 25° 00.9' W	Fl.(3)W. period 13.5s fl. 0.4s, ec. 2.5s fl. 0.4s, ec. 2.2s fl. 0.4s, ec. 7.6s	374 114	25	White square masonry tower, attached dwelling; 46.	Visible 181°-089°. Aeromarine light.
23666 D 2632.1	-Cabos Formosa.	36° 57.0' N 25° 05.6' W	Fl.(2)Y. period 8s fl. 1s, ec. 1s fl. 1s, ec. 5s	36 11	9	White lantern on wall.	Visible 000°-040°. Marks submarine cable area. Daytime range 2M.
23668 D 2636	-Ponta do Malmerendo, to Vila do Porto, entrance, W. side.	36° 56.4' N 25° 09.4' W	Fl.(2)W. period 10s fl. 1s, ec. 1s fl. 1s, ec. 7s	164 50	12	White building, red bands; 20.	Visible 282°-091°.
23669 D 2635	-Recreio.	36° 56.6' N 25° 08.9' W	Fl.G. period 3s fl. 0.3s, ec. 2.7s	30 9	3	Red tower, white bands; 8.	
23670 D 2635.3	-Mole, head.	36° 56.5' N 25° 08.9' W	L.Fl.R. period 5s fl. 2s, ec. 3s	49 15	5	Red and white tower; 26.	
23680 D 2634	-AVIATION LIGHT, about 3.7 km. 349° from Ponta do Malmerendo.	36° 59.3' N 25° 10.0' W	Al.Fl.W.G. period 10s	384 117	25	Control tower.	Visible 021°-121°. Shown during low visibility in daytime. Occasional. Aero Radiobeacon about 1.5 miles NNW.
23684 D 2633.7	-Baia dos Anjos Range, front.	37° 00.4' N 25° 09.2' W	Fl.W. period 3s fl. 1s, ec. 2s	43 13	10	White column, red bands; 13.	
23688 D 2633.71	--Rear, about 91 meters 202° from front.	37° 00.2' N 25° 09.5' W	L.Fl.W. period 6s fl. 2s, ec. 4s	69 21	10	White column, red stripes; 13.	
23692 D 2633	-Ponta do Norte.	37° 00.5' N 25° 03.6' W	Fl.(4)W. period 15s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 5s	456 139	10	White hexagonal column; 13.	F.R. 6M on radio tower 0.2 miles 131°.
23696 D 2632.3	-Sao Lourenco Range, front.	36° 59.5' N 25° 03.4' W	Iso.R. period 6s	85 26	7	White post, red bands on white house with blue arches, red lantern; 20.	
23700 D 2632.4	--Rear, about 64 meters 273.3° from front.	36° 59.5' N 25° 03.4' W	Oc.R. period 7.5s lt. 4s, ec. 3.5s	121 37	6	Red lantern on house with veranda; 7.	
23702 D 2632.2	-Espigao.	36° 58.9' N 25° 02.9' W	Fl.W. period 6s fl. 1s, ec. 5s	679 207	12	Round column, red and white bands; 20.	
ILHEUS FORMIGAS:							
23704 D 2638	-Formigas, on a rock about 0.5 km. S. of islet.	37° 16.1' N 24° 46.8' W	Fl.(2)W. period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 9.5s	72 22	12	White tower; 62.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ARQUIPELAGO DA MADEIRA (MADEIRA ISLANDS) (P.)							
ILHA DA MADEIRA:							
23708 D 2754	-Ilheu Mole.	32° 52.1' N 17° 09.8' W	Fl.W.R. period 5s fl. 1s, ec. 4s	213 65	W. 10 R. 8	Hexagonal tower; 10.	R. 116°-127° over Baixas do Moniz, W.-116°.
23712 D 2752	-Ponta do Pargo.	32° 48.7' N 17° 15.8' W	Fl.(3)W. period 20s fl. 0.5s, ec. 2.8s fl. 0.5s, ec. 2.8s fl. 0.5s, ec. 12.9s	1024 312	26	Quadrangular masonry tower, attached dwelling; 46.	Reserve light range 21M.
23716 D 2750	-Paul do Mar.	32° 45.1' N 17° 13.4' W	Oc.R. period 3s lt. 2s, ec. 1s	56 17	6	Post, red and white stripes; 43.	
23720 D 2746	-Ribeira Brava, S. side of island.	32° 40.0' N 17° 03.8' W	Fl.R. period 5s fl. 1.5s, ec. 3.5s	112 34	9	Red hut; 6.	
23724 D 2744	-Camara de Lobos, W. side of bay.	32° 38.8' N 16° 58.5' W	Oc.R. period 6s lt. 4s, ec. 2s	75 23	9	White hut; 6.	Visible 304°-099°.
23726 D 2743	-Vitoria.	32° 38.5' N 16° 58.1' W	Q.(6)+L.Fl.W. period 15s	43 13	9	White structure; 33.	Fl.R. 2.4s marks dolphin E.
23727 D 2742.2	-Shell W.	32° 38.4' N 16° 57.2' W	F.W.	46 14	2	Green post; 13.	Shown 1930 to 0730. Occasional.
23727.1 D 2724.5	--Range, front.	32° 38.4' N 16° 57.2' W	F.R.	46 14	2	Green post; 13.	On same structure as Shell W light. Occasional.
23727.2 D 2742.6	---Rear, 208 meters from front.	32° 38.5' N 16° 57.1' W	F.R.	144 44	2	Green post; 13.	Occasional.
23727.5 D 2742	-Shell Central.	32° 38.3' N 16° 57.1' W	F.W.	43 13	2	Green post; 13.	Shown 1930 to 0730. Occasional.
23727.6 D 2741.5	-Cabos Formosa, Formosa Beach.	32° 38.3' N 16° 57.0' W	Fl.(2)R. period 8s fl. 1s, ec. 1s fl. 1s, ec. 5s	20 6	9	White post, red bands; 13.	Visible 027°-055°. Marks submarine cable area. Daytime range 2M.
23727.7 D 2741	-Shell E. Range, front.	32° 38.1' N 16° 56.8' W	F.R.	108 33	2	Gray post; 16.	Occasional.
23727.8 D 2741.1	--Rear, 300 meters from front.	32° 38.1' N 16° 56.6' W	F.R.	200 61	2	Black mast; 13.	Occasional.
23727.9 D 2741.3	-Cabos Gorgulho, Gorgulho Beach.	32° 38.2' N 16° 56.1' W	Fl.(2)R. period 8s fl. 1s, ec. 1s fl. 1s, ec. 5s	75 23	9	Lantern with red bands on wall.	Visible 330°-025°. Marks submarine cable area. Daytime range 2M.
-Funchal:							
23728 D 2738	--Breakwater, head.	32° 38.3' N 16° 54.2' W	Fl.R. period 5s fl. 1s, ec. 4s	49 15	8	Truncated column, red and white bands; 20.	Visible 275°-075°. F.R. 3M and F.G. 2M mark heads of breakwaters in Marina to NW.
23732 D 2728	Sao Roque.	32° 42.8' N 16° 45.8' W	L.Fl.W.R. period 5s fl. 2s, ec. 3s	23 7	W. 9 R. 7	White column, red bands, on hut; 13.	R. 230°-265°, W.-230°.
23736 D 2730	--Cais Machico.	32° 43.0' N 16° 45.5' W	Fl.G. period 3s fl. 1s, ec. 2s	23 7	5	Column with green and white bands.	
23740 D 2726	-Ponta de Sao Lourenco.	32° 43.7' N 16° 39.4' W	Fl.W. period 5s fl. 0.5s, ec. 4.5s	338 103	20	White octagonal tower on dwelling; 33.	Reserve light range 17M.
23744 D 2755	-Sao Jorge.	32° 49.9' N 16° 54.4' W	L.Fl.W. period 5s fl. 2s, ec. 3s	889 271	15	Round tower, attached dwelling; 46.	Reserve light range 12M.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ARQUIPELAGO DA MADEIRA (MADEIRA ISLANDS) (P.)							
23746 <i>D 2755.5</i>	-Cabos Lagoa, Lagoa Beach.	32° 46.5' N 16° 49.7' W	Fl.(2)R. period 8s fl. 1s, ec. 1s fl. 1s, ec. 5s	33 10	9	White post, red bands; 13.	Visible 188°-216°. Marks submarine cable area. Daytime range 2M.
ILHAS DESERTAS:							
23748 <i>D 2720</i>	-Ilheu Chao, on N. extremity.	32° 35.3' N 16° 32.7' W	L.Fl.(2)W. period 15s fl. 2s, ec. 2s fl. 2s, ec. 9s	367 112	13	Round tower near dwelling; 46.	
23752 <i>D 2722</i>	-Ilheu de Bugio, (Ponta da Agulha), S. head.	32° 24.2' N 16° 27.7' W	Fl.W. period 4s fl. 1s, ec. 3s	236 72	13	Hexagonal tower; 26.	Visible 163°-100°.
ILHA DE PORTO SANTO:							
23756 <i>D 2756</i>	-Ilheu de Cima.	33° 03.2' N 16° 16.7' W	Fl.(3)W. period 15s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 9.8s	407 124	21	White quadrangular masonry tower, attached dwelling; 49.	
23765 <i>D 2757.2</i>	New Port, N. mole, head.	33° 03.5' N 16° 18.9' W	Fl.R. period 4s fl. 1s, ec. 3s	43 13	7	Column, red and white bands.	
23766 <i>D 2757</i>	-S. mole, head.	33° 03.5' N 16° 18.8' W	Fl.G. period 4s fl. 1s, ec. 3s	56 17	6	Column, green and white bands.	
23767 <i>D 2763</i>	-N. Coast Ilha de Porto Santo.	33° 05.8' N 16° 20.4' W	Fl.(2)W. period 10s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 7.2s	361 110	12	Round tower, red and white bands; 15.	Visible 064°-243°.
23767.5 <i>D 2757.3</i>	-Cabeco cables, beach.	33° 02.2' N 16° 21.7' W	Fl.(2)R. period 8s fl. 1s, ec. 1s fl. 1s, ec. 5s	33 10	9	White post, red bands; 13.	Visible 308°-328°. Marks submarine cable area. Daytime range 3M.
23768 <i>D 2762</i>	Ilheu de Ferro.	33° 02.2' N 16° 24.3' W	L.Fl.W. period 15s fl. 3s, ec. 12s	426 130	13	Round tower and dwelling; 46.	
23772 <i>D 2769</i>	Selvagem Pequena.	30° 02.0' N 16° 01.6' W	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	164 50	12	Concrete column; 3.	
23776 <i>D 2768</i>	-Selvagem Grande.	30° 08.6' N 15° 52.2' W	Fl.W. period 4s fl. 1s, ec. 3s	535 163	13	Tower, red and white bands; 33.	

ISLAS CANARIAS (CANARY ISLANDS) (S.)

ISLA DE LA PALMA:							
23780 <i>D 2846</i>	-Punta Cumplida.	28° 50.3' N 17° 46.6' W	Fl.W. period 5s fl. 0.5s, ec. 4.5s	207 63	23	Truncated conical masonry tower, white top; 112.	Visible 104°30'-337°.
23784 <i>D 2848.45</i>	-Santa Cruz de la Palma, breakwater, head.	28° 40.2' N 17° 45.8' W	Fl.G. period 5s fl. 1s, ec. 4s	52 16	5	Green round tower, truncated conical top and base; 26.	

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ISLAS CANARIAS (CANARY ISLANDS) (S.)							
23794 <i>D 2848.4</i>	--Darsena Pesquera breakwater, elbow.	28° 40.3' N 17° 46.1' W	Fl.(4)R. period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	30 9	3	Red post, square topmark; 13.	
23796 <i>D 2848.5</i>	--Head.	28° 40.4' N 17° 46.1' W	Fl.R. period 5s fl. 0.5s, ec. 4.5s	30 9	3	Red post; 13.	
23797 <i>D 2849</i>	-Muelle Polivalente, head.	28° 40.5' N 17° 46.1' W	Fl.(2+1)R. period 21s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 13.5s	30 9	3	Red truncated tower, green band; 13.	
23797.2 <i>D 2847.2</i>	-Playa de Santa Cruz, breakwater, N. head.	28° 41.3' N 17° 45.5' W	Fl.Y. period 5s fl. 0.5s, ec. 4.5s	26 8	3	SPECIAL Y, column, topmark; 13.	
23797.3 <i>D 2847.5</i>	--S. head.	28° 41.1' N 17° 45.5' W	V.Q.(3)W. period 5s	26 8	3	E. CARDINAL BYB, column, topmark; 13.	
23798 <i>D 2849.51</i>	-Punta de Arenas Blancas.	28° 34.6' N 17° 45.7' W	Oc.(3)W. period 8s lt. 3s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s	151 46	20	White round tower; 125.	
23800 <i>D 2850</i>	-Punta de Fuencaliente, S. end of island.	28° 27.4' N 17° 50.8' W	Fl.(3)W. period 18s fl. 1s, ec. 3s fl. 1s, ec. 3s fl. 1s, ec. 9s	118 36	14	White round tower, red bands; 79.	
23801 <i>D 2851</i>	-Punta Lava.	28° 35.6' N 17° 55.5' W	Fl.(1+2)W. period 20s	167 51	20	White octagonal tower.	
23802 <i>D 2852</i>	-Tazacorte Harbor, shelter dike.	28° 38.5' N 17° 56.5' W	Fl.(2)R. period 7s fl. 0.8s, ec. 0.8s fl. 0.8s, ec. 4.6s	56 17	5	Red metal tower; 3.	
HIERRO:							
23804 <i>D 2838</i>	-Puerto de Hierro, mole, head.	27° 46.9' N 17° 53.9' W	Fl.G. period 5s fl. 0.5s, ec. 4.5s	46 14	5	Green round tower, conical top and round base; 23.	
23808 <i>D 2836</i>	-Punta Orchilla.	27° 42.5' N 18° 08.8' W	Fl.W. period 5s fl. 0.3s, ec. 4.7s	433 132	24	Gray octagonal masonry tower, square base; 82.	
23810 <i>D 2837</i>	-Puerto de Restinga.	27° 38.3' N 17° 58.9' W	Fl.(2)G. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	49 15	1	Green conical pyramidal tower; 3.	
ISLA DE LA GOMERA:							
23812 <i>D 2842</i>	-Punta de San Cristobal.	28° 05.5' N 17° 05.9' W	Fl.(2)W. period 10s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 7.3s	277 84	21	White round tower, red band; 49.	
23816 <i>D 2844.75</i>	-Puerto de Sebastian, corner of breakwater.	28° 05.0' N 17° 06.4' W	Fl.(2)G. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	23 7	3	Green post; 10.	
23825 <i>D 2845</i>	-Playade Santiago.	28° 01.5' N 17° 11.7' W	Fl.(2)R. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	43 13	5	Red pillar on red column; 16.	

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ISLAS CANARIAS (CANARY ISLANDS) (S.)							
23826 D 2845.5	-Vueltas Valle Gran Rey.	28° 04.7' N 17° 19.8' W	Fl.(2+1)G. period 21s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 13.5s	52 16	3	Green post with red band; 7.	
ISLA DE TENERIFE:							
23828 D 2829	-Punta de Abona.	28° 08.8' N 16° 25.5' W	Fl.(3)W. period 20s fl. 0.3s, ec. 3.6s fl. 0.3s, ec. 3.6s fl. 0.3s, ec. 11.9s	177 54	17	Round tower, white with red bands, two galleries, on dwelling; 128.	Visible 213°36'-040°18'.
23832 D 2830	-Punta Rasca.	28° 00.0' N 16° 41.6' W	Fl.(3)W. period 12s	167 51	17	Round white tower, red bands; 105.	
23836 D 2831	-Puerto de los Cristianos, breakwater, head.	28° 02.7' N 16° 42.9' W	Fl.R. period 5s fl. 0.5s, ec. 4.5s	43 13	5	Round tower, red conical top and base; 20.	
23838 D 2831.8	-Punta de Buenavista.	28° 23.5' N 16° 50.2' W	Fl.(4)W. period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	249 76	20	White square tower; 131.	
23840 D 2832	-Punta de Teno.	28° 20.5' N 16° 54.8' W	Fl.(1+2)W. period 20s fl. 0.3s, ec. 8.3s fl. 0.3s, ec. 2.5s fl. 0.3s, ec. 8.3s	196 60	18	White round tower, red bands, 2 galleries; 65.	
23842 D 2833	-Puerto de la Cruz.	28° 25.0' N 16° 33.2' W	Fl.(2)W. period 7s	102 31	16	Square tower; 89.	
23844 D 2834	--N. mole, head.	28° 25.2' N 16° 33.0' W	Fl.(3)G. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	26 8	4	Green column; 10.	
23848 D 2835	--S. mole, head.	28° 25.1' N 16° 33.0' W	Fl.(3)R. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	23 7	3	Red column; 10.	
23852 D 2820	-Punta de Anaga.	28° 34.8' N 16° 08.3' W	Fl.(2+4)W. period 30s fl. 0.4s, ec. 2.5s fl. 0.4s, ec. 8.8s fl. 0.4s, ec. 2.5s fl. 0.4s, ec. 2.5s fl. 0.4s, ec. 2.5s fl. 0.4s, ec. 8.8s	810 247	21	Round masonry tower, white top on white building; 39.	
23854 D 2818	-Punta del Hidalgo.	28° 34.6' N 16° 19.7' W	Fl.(3)W. period 16s fl. 1.5s, ec. 2s fl. 1.5s, ec. 2s fl. 1.5s, ec. 7.5s	171 52	16	Masonry tower; 164.	
23856 D 2821	-Los Rodeos, AVIATION LIGHT.	28° 29.3' N 16° 18.4' W	Fl.W. period 5s	2136 651	37	Iron tower; 46.	Shown from sunset to sunrise.
-Santa Cruz de Tenerife:							
23859 D 2822.8	--Digue del Este, head.	28° 29.0' N 16° 13.7' W	Fl.(2)G. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	43 13	9	Green round tower, truncated conical base; 20.	

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ISLAS CANARIAS (CANARY ISLANDS) (S.)							
23860 <i>D 2822.6</i>	--First elbow.	28° 29.3' N 16° 13.1' W	Q.(6)+L.Fl.W. period 15s	36 11	5	S. CARDINAL YB, post, topmark; 10.	
23864 <i>D 2822.7</i>	--Second elbow.	28° 29.0' N 16° 13.5' W	Q.(6)+L.Fl.W. period 15s	36 11	5	S. CARDINAL YB, tower, topmark; 10.	
23868 <i>D 2822</i>	--Muelle- Dique de Sur, head.	28° 28.7' N 16° 14.1' W	Fl.(2)R. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	62 19	10	Red round tower, truncated conical top; 16.	
23872 <i>D 2822.4</i>	--N. mole, head.	28° 28.5' N 16° 14.4' W	Fl.(2)G. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	20 6	1	Green truncated pyramidal tower; 7.	
23873 <i>D 2822.45</i>	--Darsena de Anaga, NE. corner.	28° 28.3' N 16° 14.6' W	Fl.(4)Y. period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	30 9	1	SPECIAL Y, truncated pyramidal tower, topmark; 13.	Synchronized with 23874.
23874 <i>D 2822.46</i>	---NW. corner.	28° 28.3' N 16° 14.7' W	Fl.(4)Y. period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	30 9	1	SPECIAL Y, truncated pyramidal tower, topmark; 13.	Synchronized with 23873.
23876 <i>D 2826</i>	--Darsena Pesquera, Dique de Abrigo, on angle, head.	28° 29.6' N 16° 12.7' W	Fl.G. period 5s fl. 0.5s, ec. 4.5s	36 11	3	Green round tower; 16.	
23880 <i>D 2826.2</i>	---At 95 meters 332°24' (in water).	28° 29.6' N 16° 12.7' W	Fl.(2)G. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	16 5	1	Round green metal column.	
23884 <i>D 2826.4</i>	--At 201 meters 343° (in water).	28° 29.7' N 16° 12.7' W	Fl.(2)R. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	16 5	1	Round red metal column.	
23886 <i>D 2826.5</i>	--Breakwater, head.	28° 29.5' N 16° 12.8' W	Fl.R. period 5s	43 13	3	Red column; 20.	
23888 <i>D 2831.6</i>	--Dock, NE. head.	28° 14.8' N 16° 50.4' W	Fl.G. period 5s fl. 0.5s, ec. 4.5s	36 11	3	Red tripod, white base with red diagonal stripes; 16.	
23892 <i>D 2831.5</i>	-Santiago, SW. dock, head.	28° 15.0' N 16° 50.0' W	Fl.G. period 6s fl. 1.5s, ec. 4.5s	36 11	3	Green tripod; 10.	
23896	--Dock, SW.	28° 15.0' N 16° 50.0' W	Fl.W. period 1.6s		4		
23900 <i>D 2827.2</i>	-Puerto de la Hondura (Puerto Caballo), oil pier, E. angle.	28° 27.0' N 16° 16.0' W	Q.R.	28 9	3	Yellow post, black diagonal stripes; 7.	Lighted ranges are established for anchorage, lights are shown from group of dolphins close northeastward.
23904 <i>D 2827</i>	--W. angle.	28° 26.8' N 16° 15.8' W	Iso.G. period 3.4s	33 10	5	Green post on white wall, black diagonal bands; 20.	F.W. lights are shown from loading platform about 229 meters 058°. Lighted mooring buoy, Q.Y., about 78 meters 121°.
23908 <i>D 2826.86</i>	-Muelle de Ribera.	28° 27.4' N 16° 14.9' W	Fl.(4)R. period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	26 8	3	Red post.	

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ISLAS CANARIAS (CANARY ISLANDS) (S.)							
23909 <i>D 2826.78</i>	--Inside mole, head.	28° 27.6' N 16° 14.7' W	Fl.G. period 5s fl. 0.5s, ec. 4.5s	20 6	1	Green truncated pyramidal tower; 10.	
23910 <i>D 2826.9</i>	-Entrance Range, front.	28° 27.5' N 16° 14.9' W	Iso.W. period 1s	26 8	3	White framework tower, red bands; 16.	
23910.5 <i>D 2826.91</i>	--Rear, 71 meters 002° from front.	28° 27.6' N 16° 14.9' W	Q.W.	43 13	3	White framework tower, red bands; 33.	
23911 <i>D 2826.87</i>	-Ro Ro Terminal.	28° 27.5' N 16° 14.9' W	Fl.R. period 5s fl. 0.5s, ec. 4.5s	20 6	1	Red truncated pyramidal tower; 7.	
23912 <i>D 2826.72</i>	-Dique de los Llanos, E. extremity.	28° 27.3' N 16° 14.8' W	Fl.(3)G. period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	43 13	9	Green round tower; 20.	
23913 <i>D 2826.74</i>	--W. extremity.	28° 27.4' N 16° 14.8' W	Fl.(4)G. period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	20 6	3	Green metal post; 7.	
23916 <i>D 2826.7</i>	--Elbow.	28° 27.9' N 16° 14.4' W	Q.(3)W. period 10s	29 9	5	E. CARDINAL BYB, post, topmark.	
23917 <i>D 2826.82</i>	--W. breakwater, head.	28° 27.2' N 16° 14.8' W	Fl.(3)R. period 10s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	26 8	9	Red post.	Q.(6).+L.Fl.W. 15s 15m 3M light 600 meters SW.
23918 <i>D 2827.9</i>	-Puerto Radazul, breakwater, head.	28° 23.9' N 16° 19.3' W	Fl.(2)G. period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	33 10	5	Green post; 20.	
23920 <i>D 2827.94</i>	-Puerto de Candelaria, jetty, head.	28° 21.4' N 16° 22.1' W	Fl.(4)G. period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	29 9	5	Green round column; 10.	
23924 <i>D 2827.98</i>	--Contradique.	28° 21.4' N 16° 22.1' W	Fl.(4)R. period 11s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	23 7	3	Red round column; 10.	
ISLA DE GRAN CANARIA:							
23928 <i>D 2816</i>	-Punta Sardinia, NW.	28° 09.8' N 15° 42.4' W	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	157 48	20	White round tower, red bands; 79.	
23932 <i>D 2798</i>	-La Isleta.	28° 10.4' N 15° 25.0' W	Fl.(3+1)W. period 20s fl. 0.3s, ec. 2.5s fl. 0.3s, ec. 2.5s fl. 0.3s, ec. 6.9s fl. 0.3s, ec. 6.9s	817 249	21	White conical tower, yellow band, dwelling; 32.	Aeromarine light.
23934 <i>D 2799.2</i>	-El Roque del Palo.	28° 09.9' N 15° 24.0' W	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	6	Black post, yellow band, concrete base; 20.	

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ISLAS CANARIAS (CANARY ISLANDS) (S.)							
23936 <i>D 2799</i>	-Radio Atlantico, AVIATION LIGHT.	28° 01.0' N 15° 35.1' W	Oc.R. period 3s lt. 2s, ec. 1s	5266 1605	40	Radio mast; 180.	
23938 <i>D 2799.4</i>	-Puerto de la Luz, breakwater, head.	28° 07.5' N 15° 24.3' W	Fl.G. period 5s fl. 0.3s, ec. 4.7s	66 20	10	Green and white tower; 26.	
23939 <i>D 2799.5</i>	--First elbow.	28° 07.8' N 15° 24.3' W	Q.(3)W. period 5s	43 13	8	Black post, yellow band; 3.	Visible 150°-000°.
23940 <i>D 2799.6</i>	--Second elbow.	28° 07.8' N 15° 24.3' W	Q.(2)G. period 6s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 4.5s	26 8	4	Green round tower; 13.	Visible 335°30'-181°30'.
23942 <i>D 2799.66</i>	--Entrance Range, front.	28° 09.3' N 15° 24.6' W	Iso.W. period 4s	49 15	6	Post; 3.	
23942.1 <i>D 2799.67</i>	--Rear, 609 meters 000° from front.	28° 09.7' N 15° 24.6' W	Q.W.	102 31	6	Post; 33.	
23944 <i>D 2802</i>	--Wharf, head.	28° 08.1' N 15° 25.5' W	Fl.(2+1)G. period 14.5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s fl. 0.5s, ec. 9s	20 6	1	Green and red tower; 10.	
23945 <i>D 2803.2</i>	--SW. corner of wharf.	28° 08.3' N 15° 25.3' W	Fl.G. period 3s fl. 0.5s, ec. 2.5s	26 8	2	Round green masonry tower; 20.	
23948 <i>D 2800.42</i>	--EN2 mole, E. corner.	28° 08.6' N 15° 24.7' W	Fl.(4)R. period 10s	23 7	3	Red post; 13.	
23953 <i>D 2803.3</i>	--Cory pier, W.	28° 08.7' N 15° 25.4' W	Q.G.	30 9	3	Round green post; 13.	
23954 <i>D 2803.35</i>	---E.	28° 08.7' N 15° 25.4' W	Q.R.	30 9	3	Red post; 13.	
23956 <i>D 2801.2</i>	-Puerto de la Luz, (Dique del Generalissimo Franco), W. breakwater, head.	28° 07.6' N 15° 25.0' W	Fl.(3)G. period 12s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 5s	66 20	7	White octagonal stone tower with brown bands; 29.	Visible 291°-182°. Fl.(2)G. 7s 5M light 420 meters N.
23960 <i>D 2799.7</i>	--Contradique, interior, head.	28° 08.4' N 15° 24.7' W	Fl.(2+1)R. period 12s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 7.5s	29 9	4	Red round tower, green band; 20.	Fl.(2)R. 7s 3M light 430 meters S.
23964 <i>D 2800.2</i>	---Outer, head.	28° 07.9' N 15° 24.7' W	Fl.R. period 5s fl. 0.5s, ec. 4.5s	26 8	5	Red round tower; 13.	
23968 <i>D 2801</i>	--Puerto Interior.	28° 08.8' N 15° 25.1' W	Dir.Oc.W.R.G. period 3s lt. 2s, ec. 1s	72 22	3	White post on building; 62.	G. 357°-359°, W.-002°, R.-004°.
23976 <i>D 2804</i>	--Muelle de Santa Catalina, N. head.	28° 08.5' N 15° 25.4' W	Fl.R. period 5s fl. 0.5s, ec. 4.5s	36 11	2	Truncated conical masonry tower; 20.	Fl.(2)R. 7s 1M and Fl.(2+1)G. 14.5s 1M mark Muelle del Arsenal.
23980 <i>D 2806</i>	---SE. head.	28° 08.3' N 15° 25.2' W	Fl.(2+1)R. period 12.5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 5s fl. 0.5s, ec. 5s	26 8	3	Red post, green band; 20.	
23984 <i>D 2807</i>	---SW. head.	28° 08.3' N 15° 25.3' W	Fl.G. period 5s fl. 0.5s, ec. 4.5s	26 8	3	Green post; 20.	

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(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ISLAS CANARIAS (CANARY ISLANDS) (S.)							
23988 <i>D 2807.37</i>	--Small craft basin, E. breakwater, head.	28° 07.7' N 15° 25.4' W	Fl.(2)R. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	26 8	3	Red post; 16.	
23989 <i>D 2807.36</i>	---W. breakwater, head.	28° 07.7' N 15° 25.4' W	Fl.(2+1)R. period 15s fl. 1s, ec. 2s fl. 1s, ec. 5s fl. 1s, ec. 5s	33 10	3	Red post, green bands; 20.	
23989.5 <i>D 2807.35</i>	----Elbow.	28° 07.8' N 15° 25.5' W	Fl.(3) W. period 10s	16 5	3	E. CARDINAL BYB, post, topmark; 13.	Visible 160°-320°.
23990 <i>D 2807.5</i>	-Punta Melenara.	27° 59.4' N 15° 21.9' W	Fl.(2)W.R. period 12s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 8.5s	108 33	12	White round tower; 56.	W. 270°-152°, R.-270°.
23996 <i>D 2809</i>	--Bahia de Melenara anchorage range N-S.	27° 58.5' N 15° 22.5' W	Dir.F.W.R.G.	33 10	1	Mast; 23.	G. 330°-358°, W.-002°, R.- 030°. Two Oc.W. lights spaced 50 meters apart, in N./S. direction establish a range with above light. Occasional.
24000 <i>D 2809.4</i>	--Punta de la Hullera anchorage range E-W.	27° 58.4' N 15° 22.8' W	Dir.Iso.W.R.G. period 2s	30 9	1	Metal mast; 23.	G. 240°-268°, W.-272°, R.- 300°. Two Oc.W. lights spaced 32 meters apart in E./W. direction establish a range with above light.
24008 <i>D 2812</i>	-Punta Arinaga.	27° 51.2' N 15° 23.0' W	Fl.(3)W.R. period 10s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	154 47	W. 12 R. 9	White round tower, red bands; 46.	W. 052°-172°, R.-212°, W.- 012°, R.-052°. 8 Oc.R. 5s lights (quadrangle) are shown from summit of Monte Arinaga, about 1.1 km. 306°.
24012 <i>D 2814</i>	-Maspalomas.	27° 44.0' N 15° 35.0' W	Fl.(1+2)W. period 13s fl. 1s, ec. 4s fl. 1s, ec. 2s fl. 1s, ec. 4s	197 60	19	Bluish gray conical tower, white lantern; 184.	
24014 <i>D 2815</i>	-Pasito Blanco, dike, head.	27° 45.0' N 15° 37.0' W	F.R.	30 9	3	Red metal post.	
24014.2 <i>D 2815.2</i>	--Spur.	27° 44.7' N 15° 37.2' W	Q.(2)R. period 4s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 2.5s	13 4	3	Red metal post; 10.	
24014.4 <i>D 2815.22</i>	--End of slipway jetty.	27° 44.7' N 15° 37.2' W	Fl.G. period 3s fl. 0.5s, ec. 2.5s	13 4	3	Green metal post; 10.	
24016 <i>D 2815.4</i>	-Puerto Cementero, Dique Rompeolas, head.	27° 45.0' N 15° 40.3' W	Q.(2)R. period 6s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 4.5s	39 12	6	Round post, red and white bands; 16.	
24020 <i>D 2815.45</i>	--Mulle No. 2.	27° 44.9' N 15° 40.2' W	Fl.(4)G. period 10s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 3s	33 10	4	Metal platform; 13.	
24022 <i>D 2815.7</i>	-Puerto Rico, end of W. dike.	27° 46.8' N 15° 42.6' W	Q.(2)R. period 4s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 2.5s	36 11	4	Red round masonry tower; 13.	
24022.2 <i>D 2815.6</i>	---Breakwater.	27° 46.8' N 15° 42.5' W	F.G.	36 11	4	Green column; 10.	

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ISLAS CANARIAS (CANARY ISLANDS) (S.)							
24022.4 <i>D 2815.82</i>	--Puerto de Escala, W. dike.	27° 46.9' N 15° 42.7' W	F.R.	36 11	5	Red round masonry tower; 13.	
24022.6 <i>D 2815.8</i>	--End of protection jetty.	27° 46.9' N 15° 42.7' W	Fl.G. period 3s fl. 0.4s, ec. 2.6s	20 6	4	Green round masonry tower; 13.	
24023 <i>D 2815.96</i>	-Puerto de Mogan, S. dique, head.	27° 48.9' N 15° 45.7' W	Fl.(3)R. period 8.5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 5s	43 13	3	Trapezoidal tower, red and white bands; 20.	
24023.5 <i>D 2815.98</i>	--Muelle No. 2, head.	27° 48.9' N 15° 45.7' W	Fl.(2)G. period 7s fl. 0.5s, ec. 1s fl. 0.5s, ec. 5s	10 3	4	Trapezoidal tower, green and white bands; 7.	
24023.7 <i>D 2815.94</i>	-Punta del Castillete.	27° 49.1' N 15° 46.0' W	Fl.W. period 5s fl. 1s, ec. 4s	374 114	17	Square tower.	
ISLA DE FUERTEVENTURA:							
24024 <i>D 2790</i>	-Punta Jandia.	28° 03.0' N 14° 31.0' W	Fl.W. period 4s fl. 0.5s, ec. 3.5s	108 33	22	Gray conical tower, dwelling; 62.	Visible 276°-190°.
24026 <i>D 2791</i>	-Punta Pesebre.	28° 06.5' N 14° 29.4' W	Oc.(2)W. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	36 11	10	White and gray tower; 16.	
24027 <i>D 2796.5</i>	-Puerto de Morro Jable.	28° 02.7' N 14° 19.7' W	Fl.(2)W. period 10s fl. 0.3s, ec. 1.7s fl. 0.3s, ec. 7.7s	203 62	20	White round tower; 194.	
24028	-Muelle extremity.	28° 12.0' N 14° 01.0' W	Fl.R. period 3s fl. 0.3s, ec. 2.7s	29 9	3	Red metallic tower; 19.	
24032 <i>D 2795</i>	-Punta Lantaila.	28° 13.0' N 13° 56.0' W	Fl.(2+1)W. period 18s fl. 0.4s, ec. 1.2s fl. 0.4s, ec. 7.8s fl. 0.4s, ec. 7.8s	643 196	21	Tower on building; 39.	Aeromarine light.
24033 <i>D 2796.1</i>	-Punto Gran Tarajal, W. side.	28° 12.4' N 14° 01.5' W	Fl.(3)R. period 7s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3.5s	30 9	5	Red tower; 23.	
24033.5 <i>D 2796</i>	--E. side.	28° 12.4' N 14° 01.4' W	Fl.(3)G. period 7s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3.5s	30 9	5	Green tower; 23.	
24034 <i>D 2793.5</i>	-Punta Gaviota.	28° 30.2' N 13° 50.5' W	Fl.W. period 5s fl. 0.5s, ec. 4.5s	157 48	20	White round tower; 141.	Reserve light 9M.
24036 <i>D 2794</i>	-Puerto del Rosario, pier, head.	28° 29.5' N 13° 51.2' W	Fl.G. period 5s fl. 0.5s, ec. 4.5s	46 14	5	Green round column; 33.	
24037 <i>D 2794.2</i>	--Contradique, head.	28° 29.7' N 13° 51.5' W	Fl.(2)R. period 7s fl. 0.5s, ec. 1s fl. 0.5s, ec. 5s	23 7	1	Red round masonry tower; 13.	
24040 <i>D 2792</i>	-Toston, on Punta del Toston, NW. side of island.	28° 42.8' N 14° 00.8' W	Fl.W. period 8s fl. 1s, ec. 7s	115 35	14	White tower, red bands; 98.	

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ISLAS CANARIAS (CANARY ISLANDS) (S.)							
24042 D 2793	Puerto de Corralejo.	28° 44.4' N 13° 51.6' W	Fl.G. period 3s fl. 0.3s, ec. 2.7s	30 9	4	Green round tower; 16.	
24044 D 2786	Isla de Lobos, Punta Martino, Isla de Fuerteventura, NE. side.	28° 46.0' N 13° 48.8' W	Fl.(2)W. period 15s fl. 1s, ec. 3s fl. 1s, ec. 10s	95 29	14	Yellow conical tower, white octagonal lantern; 21.	Visible 083°-353°.
ISLA DE LANZAROTE:							
24048 D 2782	-Punta Pechiguera.	28° 51.2' N 13° 52.2' W	Fl.(3)W. period 30s fl. 0.2s, ec. 3.5s fl. 0.2s, ec. 3.5s fl. 0.2s, ec. 22.4s	180 55	17	White round tower; 164.	
24049 D 2781.5	-Marina Rubicon, mole, head.	28° 51.4' N 13° 49.1' W	Fl.(4)G. period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 8.5s	13 4	5	Green metal tower.	
24050 D 2781	-Puerto Calero, S. mole, head.	28° 54.9' N 13° 42.3' W	Fl.(3)G. period 14s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 7s	33 10	6	Gray octagonal tower; 13.	Fl.(4)R. 11s 5M marks N. mole head.
24052 D 2780	-Puerto de Arrecife.	28° 57.1' N 13° 33.0' W	Q.(6)+L.Fl.W. period 15s	33 10	3	S. CARDINAL YB, tower, topmark; 20.	
24053 D 2777	-Puerto de Naos, mole, head.	28° 58.0' N 13° 31.9' W	Fl.R. period 5s fl. 0.5s, ec. 4.5s	36 11	3	Red round tower; 13.	
24053.2 D 2778	--Muelle Pesquero, NE. end.	28° 58.0' N 13° 32.1' W	Fl.(2)G. period 7s fl. 0.5s, ec. 1s fl. 0.5s, ec. 5s	30 9	1	Green round tower; 13.	
24053.4 D 2778.2	--Arrecife de la Raya.	28° 58.0' N 13° 32.1' W	Fl.(3)G. period 9s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 5.5s	30 9	1	Green round tower; 13.	
24053.6 D 2778.4	--S. end.	28° 57.8' N 13° 32.3' W	Fl.(4)G. period 11s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6s	30 9	1	Green round tower; 13.	
24053.8 D 2778.6	--Muelle de Reparaciones, N. corner.	28° 57.7' N 13° 32.2' W	Fl.(3)R. period 9s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 5.5s	30 9	1	Red round tower; 13.	
24054 D 2773.8	-Punta de Mujeres.	29° 08.5' N 13° 26.7' W	Fl.(2+1)R. period 8.5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s fl. 0.5s, ec. 2s	33 10	5	White round tower, blue bands; 20.	
24055 D 2773.6	-Punta Fariones.	29° 14.5' N 13° 28.2' W	Q.W.	49 15	4	White round tower, black top, on truncated base; 26.	
24056 D 2775	-Puerto de Los Marmoles, Punta Chica, pier, head.	28° 57.8' N 13° 31.6' W	Fl.G. period 5s fl. 0.5s, ec. 4.5s	43 13	5	Green round tower; 10.	
24064	--NE. elbow.	28° 57.8' N 13° 31.6' W	Iso.R. period 7s	16 5	4	Red and white banded structure; 10.	

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ISLAS CANARIAS (CANARY ISLANDS) (S.)							
24076 <i>D 2772</i>	Isla de Aleganza, Punta Delgada.	29° 24.0' N 13° 29.0' W	Fl.W. period 3s fl. 0.3s, ec. 2.7s	56 17	12	Dark gray conical tower, white lantern; 49.	Visible 135°-045°.
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ARQUIPELAGO DE CABO VERDE (CAPE VERDE ISLANDS)							
ILHA DE SANTO ANTAO:							
24080 <i>D 2950</i>	-Ponta de Tumbo.	17° 07.0' N 24° 58.0' W	Fl.(4)W. period 20s	531 162	17	White octagonal masonry tower, dwelling; 52.	Visible 141°-321°.
24084 <i>D 2956</i>	Porto Navo, N. pier, head.	17° 00.9' N 25° 03.6' W	Iso.G. period 4s	43 13	6	Metal mast; 20.	
24088 <i>D 2952</i>	-Ponta do Sol, N. point of island.	17° 12.1' N 25° 05.6' W	Fl.W. period 4s	49 15	9	Metal mast with lantern; 33.	
24092 <i>D 2954</i>	-Ponta de Mangrade (Ponta Oeste).	17° 03.4' N 25° 21.8' W	Fl.(2)W. period 10s	367 112	13	White column, red lantern; 10.	Visible 005°-200°.
ILHA DE SAO VICENTE:							
24096 <i>D 2946</i>	-Ponta Machado.	16° 50.0' N 25° 05.0' W	Fl.W. period 5s fl. 0.2s, ec. 4.8s	184 56	17	White square masonry tower, dwelling; 46.	Visible 302°-172°.
24100 <i>D 2942</i>	-Ilheu do Passaros (D. Luiz), Porto Grande, entrance.	16° 54.6' N 25° 00.7' W	Fl.(3)W. period 12s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 5s	282 86	14	White truncated hexagonal pyramid, red lantern; 16.	Obscured 258°-057° and 091°-196°. Signal station.
24104 <i>D 2943</i>	-Cabnave.	16° 53.9' N 25° 00.3' W	Fl.R. period 2s	26 8	8	Metal mast, square balcony; 13.	
24108 <i>D 2944</i>	--Molhe 2, head.	16° 53.0' N 25° 00.0' W	Fl.R. period 4s	33 10	6	Round column with gallery; 26.	
-Porto Grande:							
24116 <i>D 2943.4</i>	--Gale Range, front.	16° 52.4' N 25° 00.7' W	F.G.	42 13	5		Occasional.
24120 <i>D 2943.41</i>	--Rear, 980 meters 147° from front.	16° 52.0' N 25° 00.0' W	F.G.	62 19	5		Occasional.
24124 <i>D 2943.6</i>	--Comando Naval Range, front.	16° 53.3' N 24° 59.8' W	F.R.	65 20	5		Occasional.
24128 <i>D 2943.61</i>	---Rear, 530 meters 075°36' from front.	16° 53.3' N 24° 59.5' W	F.R.	89 27	5		Occasional.
ILHA DE SANTA LUZIA							
24130 <i>D 2939.5</i>	-Ponta dos Tarrafes.	16° 44.4' N 24° 41.4' W	Fl.(2+1)W. period 15s	26 8		Metal tower; 16.	
ILHA DE SAO NICOLAU:							
24132 <i>D 2934</i>	-Ponta do Barril.	16° 36.2' N 24° 25.7' W	Fl.(3)W. period 12s	43 13	15	White quadrangular tower near dwelling; 30.	
24134 <i>D 2933.2</i>	-Ponta Espechim.	16° 40.5' N 24° 20.0' W	Fl.(3)W. period 5s	141 43	8	Metal tower; 16.	

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ARQUIPELAGO DE CABO VERDE (CAPE VERDE ISLANDS)							
24135 <i>D 2933.1</i>	-Ponta Vermelharía.	16° 29.2' N 24° 18.4' W	Fl.(5)W. period 20s	59 18	8	Metal tower; 16.	
24136 <i>D 2936</i>	-Preguica (Porto Velho).	16° 33.7' N 24° 17.1' W	Fl.(2+1)R. period 15s	82 25	5	White hut; 23.	Visible 285°-016°.
24144 <i>D 2930</i>	-Ponta Leste.	16° 34.0' N 24° 00.7' W	Fl.(4)W. period 10s fl. 0.3s, ec. 1.2s fl. 0.3s, ec. 1.2s fl. 0.3s, ec. 1.2s fl. 0.3s, ec. 5.2s	239 73	11	White column, red lantern; 10.	Visible 140°-030°.
ILHA DO SAL:							
24147 <i>D 2919.75</i>	-Ponta Norte.	16° 50.1' N 22° 55.0' W	Fl.(3)W. period 12s	52 16	8	Metal tower; 16.	
24148 <i>D 2921</i>	-Baía da Palmeira Range, front.	16° 45.0' N 22° 59.0' W	Fl.W. period 3.5s fl. 1s, ec. 2.5s	30 9	5	Red post; 23.	Marks oil pipeline.
24152 <i>D 2921.1</i>	--Rear, 95 meters 044° from front.	16° 45.0' N 22° 59.0' W	Fl.W. period 3.5s fl. 1s, ec. 2.5s	49 15	3	Red post; 36.	
24156 <i>D 2920</i>	-Casa Valente Range, front.	16° 45.0' N 22° 59.0' W	F.R.	27 8	5		Shown on request of tankers anchoring at night.
24160 <i>D 2920.1</i>	--Rear, 435 meters 064° from front.	16° 45.2' N 22° 58.5' W	F.R.	43 13	5		
24164 <i>D 2922</i>	-Ponta do Sino, 300 meters within extremity.	16° 35.0' N 22° 55.0' W	Fl.(2+1)W. period 15s	35 11	8	Gray square tower; 30.	Visible 300°-142°.
24168 <i>D 2922.5</i>	-Ponta da Vera Cruz, Porto de Santa Maria.	16° 36.0' N 22° 54.0' W	F.R.	17 5	3	White framework tower; 13.	Visible 300°-049°.
24172 <i>D 2925</i>	-Monte Curral AVIATION LIGHT, N. of Runway.	16° 44.0' N 22° 57.0' W	Al.FI.W.G. period 7.5s	272 83	26		Range lights are shown in Porto Pedro de Luna. Occasional. Aero Radiobeacon about 2 miles S.
24176 <i>D 2923</i>	-Porto da Pedra de Lume Range, front.	16° 46.0' N 22° 54.0' W	F.R.	29 9	1	Black chimney, white bands; 23.	Occasional. Private light.
24180 <i>D 2923.1</i>	--Rear, 115 meters 349° from front.	16° 45.8' N 22° 53.9' W	F.R.	42 13	1	White chapel, black bands on E. side; 26.	Occasional. Private light.
24184 <i>D 2923.2</i>	-Range, front.	16° 45.5' N 22° 54.1' W	F.G.	46 14	2	Truncated pyramid; 10.	Occasional. Private light.
24188 <i>D 2923.3</i>	--Rear, 215 meters 306° from front.	16° 45.6' N 22° 54.2' W	2 F.W. (vert)	69 21	2	Framework tower on house; 23.	Occasional. Private light.
ILHA DA BOA VISTA:							
24192 <i>D 2918</i>	-Velho, on Ponta da Escuma.	16° 10.3' N 22° 56.0' W	Fl.(5)W.R. period 20s	92 28	11	Metal mast with lantern; 26.	W. 220°-355°, R.-220°.
24193 <i>D 2919</i>	--Ponte Cais.	16° 10.4' N 22° 57.2' W	Fl.(3)R. period 12s	26 8	5	Red tower; 20.	
24196 <i>D 2914</i>	-Morro Negro.	16° 06.1' N 22° 40.9' W	Fl.W. period 20s	535 163	31	Small white quadrangular concrete tower on dwelling; 39.	Visible 163°-035°.
24197 <i>D 2916</i>	-Ponte Varandinha.	16° 02.6' N 22° 58.2' W	Fl.(2)W. period 6s	72 22	10	Structure with lantern; 23.	Visible 310°-194°. Radar reflector.
	-RACON		V(••••) period 30s		24		
24198 <i>D 2919.5</i>	Ponta do Sol.	16° 13.7' N 22° 55.1' W	Fl.(4)W. period 15s	384 117	12	Metal tower; 23.	Visible 017°-272°.

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ARQUIPELAGO DE CABO VERDE (CAPE VERDE ISLANDS)							
ILHA DE MAIO:							
24200 D 2872	-Forte de S. Jose, Porto do Maio.	15° 08.0' N 23° 13.0' W	Fl.(3)R. period 12s	72 22	9	Wooden platform, on top of fort tower.	Visible 349°-090°.
24201 D 2875.5	-Ponta dos Flamengos.	15° 10.7' N 23° 05.3' W	Fl.(3)W. period 12s	39 12	10	Metal tower; 16.	Visible 038°-292°.
24202 D 2874	-Ponta Cais.	15° 20.0' N 23° 11.0' W	Fl.W. period 7s fl. 0.3s, ec. 6.7s	46 14	10	Metal tower with lantern; 23.	Visible 038°-292°. Radar reflector.
-RACON M(- -)							
24203 D 2875	-Calheta.	15° 13.5' N 23° 13.1' W	Fl.W.R.G. period 4s	23 7	8	Metal tower; 16.	
ILHA DE SAO TIAGO:							
24204 D 2876	- Maria Pia Ponta Temerosa , SE. side.	14° 54.0' N 23° 31.0' W	Fl.(2)W. period 6s	82 25	15	White octagonal masonry tower; 69.	Visible 258°-095°.
24209 D 2881.5	-Cais de Pesca, pier, head.	14° 54.8' N 23° 30.1' W	Iso.Y. period 4s		4	Lantern on yellow metal tower.	
24210 D 2882	Ponta do Lobo, island, near E. extremity.	14° 59.0' N 23° 26.0' W	Fl.(4)W. period 15s	56 17	6	Trapezoidal tower near dwelling; 30.	Visible 190°-335°.
24211 D 2883.5	-Praia Baixo.	15° 03.8' N 23° 28.3' W	Fl.(3)G. period 12s	33 10	6	Metal tower; 16.	
24212 D 2883.7	-Pedra Badejo.	15° 08.4' N 23° 31.7' W	Fl.G. period 4s	26 8	6	Metal tower; 16.	
24213 D 2883.8	-Calheta de Sao Miguel.	15° 11.5' N 23° 35.5' W	Fl.(4)R. period 15s	33 10	5	Metal tower; 16.	
24214 D 2888	-Ponta Moreia, N. end of island.	15° 20.1' N 23° 45.2' W	Fl.(5)W. period 20s	318 97	10	White iron quadrangular hut, red lantern; 13.	Visible 055°-275°.
24215 D 2890	-Ponta Preta, Baia do Tarrafal, entrance, NW. side.	15° 17.0' N 23° 47.0' W	Fl.(3)W. period 12s	112 34	8	White hut, support, masonry base; 20.	F.R. 2M shown from Tarrafal Pier head.
24216 D 2885	-Chao Bom.	15° 15.5' N 23° 44.9' W	Fl.(2+1)W.R.G. period 15s	23 7	5	Metal tower; 16.	
24217 D 2884	-Ribeira de Barca.	15° 07.0' N 23° 46.0' W	Fl.(3)W.R.G. period 12s	19 6	5	Red iron structure; 10.	Visible 080°-121°.
24218 D 2883.6	-Porto Rincao.	15° 03.1' N 23° 45.7' W	Fl.(5)W.R. period 20s	30 9	W. 8 R. 5	Metal tower; 16.	
24222	Mosquito.	14° 56.9' N 23° 41.8' W	Fl.(2)W.R.G. period 6s	43 13	8	Gray tower; 23.	
ILHA BRAVA:							
24236 D 2908	-Ponta Jalunga, Porto da Furna, entrance.	14° 53.0' N 24° 41.0' W	Fl.(2+1)W. period 15s	77 23	5	Gray lantern on white masonry column; 26.	Visible 187°-007°. F.R. shown at Furna.
24240 D 2910	-Ponta Nho Martinho.	14° 48.0' N 24° 43.0' W	Fl.(4)W. period 15s	95 29	9	White square tower, red lantern; 13.	Visible 237°-106°30'.
ILHA DO FOGO:							
24244 D 2901	-Mosteiros.	15° 02.0' N 24° 20.0' W	Fl.(3)W.R. period 12s	36 11	5	Column, on quadrangular white truncated pyramid; 10.	
24252 D 2900	-Fortim Carlota, Puerto de Sao Felipe.	14° 54.0' N 24° 31.0' W	Fl.(5)R. period 20s	119 36	8	Red iron post on wall of fort; 13.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ARQUIPELAGO DE CABO VERDE (CAPE VERDE ISLANDS)							
24256 <i>D 2898</i>	-Ponta do Alcatraz.	14° 50.0' N 24° 19.0' W	Fl.W. period 4s fl. 0.5s, ec. 4.5s	443 135	10	Column, red lantern; 10.	Visible 225°-045°.
24260 <i>D 2904</i>	Ilheu de Cima.	14° 57.0' N 24° 38.0' W	Fl.(3)W. period 12s	262 80	9	White quadrangular hut, white lantern; 13.	Obscured 252°-304° and 010°-047°.

Section 17

West Coast of Africa and Islands of The Eastern North Atlantic

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
WESTERN SAHARA							
24264 D 2621	El Aaiun AVIATION LIGHT.	27° 10.0' N 13° 13.0' W	Al.FI.W.G. period 12s				
EL AAIUN ANCHORAGE:							
24268 D 2622	-Jetty, head.	27° 05.7' N 13° 26.2' W	Fl.W.				
24276 D 2623	-Ore loader, on silo.	27° 04.0' N 13° 28.0' W	Fl.W. period 5s fl. 1s, ec. 4s	151 46	18	Silo.	Nautophone.
24280 D 2623.2	--At T-head.	27° 04.0' N 13° 28.0' W	F.W.			Middle of platform.	F.Or. lights mark length of pier.
			FG.	59 18	3	Green and white banded pole.	N. end of pier.
			FR.	59 18	3	Red and white banded pole.	S. end of pier.
24288 D 2626	El Cabino.	26° 26.0' N 14° 11.0' W	Fl.(3)W. period 12s fl. 0.4s, ec. 2.6s fl. 0.4s, ec. 2.6s fl. 0.4s, ec. 5.6s	118 36	9	Black and white tower; 105.	
24292 D 2628	Cabo Bojador.	26° 07.0' N 14° 29.0' W	Fl.(3)W. period 15s	233 71	24	Tower, black stripe; 148.	Aeromarine light.
24296 D 2628.2	-W. extremity.	26° 07.0' N 14° 30.0' W	Fl.R. period 5s fl. 1s, ec. 4s	30 9	5	Triangular stone pyramid; 20.	
24300 D 2630	Punta del Corral.	25° 35.0' N 14° 41.0' W	Fl.(2)W. period 9s fl. 0.4s, ec. 2.6s fl. 0.4s, ec. 5.6s	233 71	9	Black and white tower; 36.	
24304 D 2631	Pena Grande.	25° 06.0' N 14° 50.0' W	Fl.(4)W. period 15s fl. 0.4s, ec. 2.6s fl. 0.4s, ec. 2.6s fl. 0.4s, ec. 2.6s fl. 0.4s, ec. 5.6s	568 173	9	Black and white tower; 36.	
RIO DE ORO PENINSULA:							
24308 D 2972	-Arcipres Grande.	23° 43.0' N 15° 57.0' W	Fl.W. period 5s fl. 0.4s, ec. 4.6s	249 76	20	Round tower, black and white bands; 164.	
24312 D 2974.2	-Villa Cisneros, Muelle Transversal No. 3, head.	23° 41.8' N 15° 55.2' W	Fl.(2)W. period 10s	26 8	8	Gray truncated conical tower; 16.	
24314 D 2973.5	-New Port, breakwater, head.	23° 39.6' N 15° 56.7' W	Q.(3)W. period 10s	36 11	8	E. CARDINAL BYB, beacon, topmark.	
24316 D 2973	-Punta Galera, Punta Durnford, SE. point.	23° 38.0' N 16° 00.0' W	Fl.(2)W. period 6s	26 8	8	White square castellated tower; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
WESTERN SAHARA							
BAHIA DE ANGRA DE CINTRA:							
24320 <i>D 2975</i>	-(Puntilla Raimés), entrance, N. point.	23° 05.0' N 16° 12.0' W	Fl.(4)W. period 10s fl. 0.3s, ec. 1s fl. 0.3s, ec. 1s fl. 0.3s, ec. 1s fl. 0.3s, ec. 5.8s	46 14	8	Hexagonal masonry tower; 33.	
24324 <i>D 2975.2</i>	-Entrance Range, front.	23° 02.3' N 16° 06.5' W	Fl.W. period 5s fl. 0.3s, ec. 4.7s	39 12	8	Square masonry tower; 20.	
24328 <i>D 2975.3</i>	--Rear, 686 meters 090° from front.	23° 02.2' N 16° 05.9' W	Iso.W. period 4s	171 52	9	Square masonry tower; 20.	Visible on range line.
24332 <i>D 2975.6</i>	Cap Bardas.	22° 18.0' N 16° 41.0' W	Fl.(3)W. period 12s fl. 0.4s, ec. 2.6s fl. 0.4s, ec. 2.6s fl. 0.4s, ec. 5.6s	184 56	9	Black and white banded round tower; 131.	
24336 <i>D 2976</i>	Punta Guera, Peninsula de Cabo Blanco, S. extremity.	20° 50.0' N 17° 06.0' W	Fl.R. period 5s fl. 0.3s, ec. 4.7s	46 14	8	White quadrangular tower; 19.	Visible 267°-177°.
MAURITANIA							
24340 <i>D 2977</i>	Cap Blanc.	20° 46.0' N 17° 03.0' W	Fl.W. period 5s fl. 0.2s, ec. 4.8s	141 43	17	Octagonal tower, black and white bands; 66.	
BAIE DU LEVRIER:							
24344 <i>D 2977.5</i>	-Entrance Whistle O.	20° 39.2' N 17° 04.5' W	L.Fl.W. period 7s fl. 3s, ec. 4s			SAFE WATER RW, pillar, topmark.	Whistle. Radar reflector.
-RACON B(- • • •)							
24348 <i>D 2978</i>	-Point Central, wharf.	20° 49.0' N 17° 02.0' W	F.R.				
24352 <i>D 2978.4</i>	--Wharf, N. extremity.	20° 50.0' N 17° 02.0' W	F.R.				F.Vi. on dolphins N. and S. of wharf.
24356 <i>D 2978.5</i>	--Wharf, S. extremity.	20° 50.0' N 17° 02.0' W	F.R.				
24360 <i>D 2979</i>	-Pointe de Cansado.	20° 51.0' N 17° 02.0' W	Q.W.R.	66 20	W. 11 R. 8	Red building.	R. 300°-358°, W.-300°.
24364 <i>D 2980</i>	-Nouadhibou, close to Pointe Chacal.	20° 54.0' N 17° 04.0' W	Iso.W.R.G. period 4s	66 20	W. 11 R. 8 G. 8	White octagonal tower with black stripes; 39.	G. 212°-286°, W.-292°, R.-360°, obsc.-212°.
24368 <i>D 2982</i>	--AVIATION LIGHT.	20° 55.0' N 17° 03.0' W	Fl.(2)W. period 15s fl. 0.3s, ec. 2s fl. 0.3s, ec. 12.4s	20 6		White blockhouse.	
24372 <i>D 2984</i>	Nouakchott, wharf, head.	18° 02.0' N 16° 02.0' W	Oc.W. period 4s lt. 3s, ec. 1s	49 15	12	White tower, black top; 33.	Aero Radiobeacon 4.3 miles NE.
24373 <i>D 2986</i>	Approach light.	17° 59.6' N 16° 01.0' W	Fl.W. period 4s	121 37	16	White tower, black bands, red top.	
24374 <i>D 2986.5</i>	-S. mole, head.	17° 59.2' N 16° 02.3' W	Fl.(2+1)R. period 8s	49 15	5	White pylon; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SENEGAL							
24380 <i>D 2996</i>	Saint-Louis, Guet N'Dar.	16° 01.5' N 16° 30.7' W	Fl.(2)W. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	49 15	12	Pylon, white with red top; 46.	Horn: 2 bl. ev. 20s. Aero Radiobeacon 3.5 miles ENE.
24384 <i>D 2998</i>	St. Louis Grandiole, near pilot station.	15° 54.0' N 16° 31.0' W	Oc.(3)W. period 12s lt. 4.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s	85 26	10	Tower, white and black bands.	The Senegal River is marked by several R. and G. lights.
PRESQU'ILE DU CAP VERT:							
24388 <i>D 3002</i>	-Chausse des Almadies, E. of Pte. da Almadies, reef.	14° 44.6' N 17° 32.6' W	Fl.(2)W. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	46 14	9	Tower, black and white bands; 56.	
24392 <i>D 3004</i>	-Cap Vert.	14° 43.4' N 17° 30.2' W	Fl.W. period 5s fl. 0.2s, ec. 4.8s	394 120	31	White tower and house; 52.	May be confused with Cap Manuel Light in hazy weather. Signal station. Aero Radiobeacon 1.5 miles ESE.
24396 <i>D 3008</i>	-Cap Manuel.	14° 39.0' N 17° 26.0' W	Fl.R. period 5s fl. 0.3s, ec. 4.7s	164 50	19	White square tower on dwelling, red pillars; 55.	Partially obscured by Iles de la Madeleine and de la Goree, respectively, 096°-102° and 242°-246°30'.
24400 <i>D 3008.2</i>	--Close SE.	14° 39.0' N 17° 26.0' W	F.W.R.	157 48	W. 11 R. 8	Square white tower; 39.	R. 083°-128°, obsc.-204°, R.-254°, W.-083°. Partially obscured in same sectors as Cap Manuel Light.
DAKAR:							
24404 <i>D 3010</i>	-Ile de Goree, S. end.	14° 39.8' N 17° 23.9' W	Oc.(2)W.R. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	69 21	W. 12 R. 8	White square tower, red top; 13.	W. 207°-062°, R.-087°.
24408 <i>D 3012</i>	-N. breakwater, head.	14° 40.7' N 17° 25.3' W	Iso.G. period 4s	30 9	8	White round tower, green top; 30.	
24412 <i>D 3013</i>	-Jetee du Sud, S. jetty, head.	14° 41.0' N 17° 25.0' W	Oc.(4)R. period 12s lt. 5s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s	36 11	8	White round tower, red top; 30.	F.R. on power station 1.2 miles NNW.
24440 <i>D 3018</i>	Rufisque, Baie de Goree, N. side.	14° 42.6' N 17° 17.0' W	Iso.G. period 2s	39 12	11	Black metal framework tower; 39.	F.R. lights on radio masts 2.7 miles N.
24444 <i>D 3019</i>	Joal.	14° 09.0' N 16° 50.0' W	Oc.W. period 4s lt. 3s, ec. 1s	46 14	11	Red and white banded pylon; 43.	
24448	Riviere Saloum, <i>Entrance Whistle Buoy.</i>	13° 50.0' N 16° 50.0' W	Fl.W. period 4s fl. 1s, ec. 3s			Buoy, red and white stripes.	Radar reflector.
THE GAMBIA							
24452 <i>D 3021</i>	Cape St. Mary.	13° 28.0' N 16° 42.0' W	Fl.(2)W. period 10s	140 43	15	Water tower.	
RACON			B(-•••)				

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
THE GAMBIA							
24464 <i>D 3027</i>	Barra Point, NW. corner of fort.	13° 29.0' N 16° 34.0' W	Fl.(3)R. period 15s	59 18	10	Metal framework tower.	Visible 315°-215°. 3 F.R. on radio tower 4.6 km. SSW., 2 F.R. on radio masts 4.58 km. SW.
	RACON		Q(- - -)				
24465 <i>D 3027.5</i>	Banjul Point.	13° 27.3' N 16° 34.4' W	Iso.W. period 8s	89 27	10	Metal framework tower.	Visible 125°-003°.
	RACON		B(- . . .)				
24468 <i>D 3030</i>	-Fort James Island.	13° 19.0' N 16° 22.0' W	Fl.W. period 14.5s	26 8		White steel framework structure; 21.	
SENEGAL							
RIO CACHEU:							
24484 <i>D 3042</i>	-Cabo Mata.	12° 09.9' N 16° 19.4' W	Fl.(3)W. period 15s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 10s	33 10	9	White tower and pyramid; 43.	
24492 <i>D 3044</i>	-Cacheu (Baluarte de San Fernando).	12° 16.7' N 16° 10.0' W	Fl.(2)W. period 10s fl. 1s, ec. 1s fl. 1s, ec. 7s	30 9	9	White tower and pyramid; 30.	
RIO GEBÁ:							
24500 <i>D 3050</i>	-Caio.	11° 50.2' N 16° 19.3' W	Fl.(2)W. period 10s fl. 0.7s, ec. 0.3s fl. 0.7s, ec. 8.3s	135 41	16	White tower, black bands.	Reserve light 10M.
	-RACON.		B(- . . .) period 60s				
24504 <i>D 3052</i>	-Ilha de Jeta, SE. extremity.	11° 50.3' N 16° 13.9' W	Fl.W. period 5s fl. 1s, ec. 4s	30 9	9	White tower.	
24506 <i>D 3053</i>	-Baixos de Rio Grande.	11° 38.2' N 16° 35.0' W	Fl.(3)W. period 15s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 10s	33 10	12	White metal column.	
24508 <i>D 3054</i>	-Ponta Arlete, N. side of channel.	11° 45.5' N 16° 05.5' W	Fl.(3)W. period 15s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 10s	43 13	9	White tower; 30.	
24512 <i>D 3056</i>	-Ponta Biombo, N. side of channel.	11° 44.1' N 15° 57.0' W	Fl.W. period 5s fl. 1s, ec. 4s	43 13	9	White round tower; 33.	
24520 <i>D 3057</i>	-Ponta Bernafel.	11° 47.5' N 15° 39.0' W	Fl.(3)W. period 15s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 10s	26 8	9	White tower; 26.	
24524 <i>D 3058</i>	-Ilheu dos Passaros, near Canal do Geba.	11° 49.2' N 15° 35.5' W	Fl.W. period 5s fl. 1s, ec. 4s	56 17	9	White tower; 43.	
24532 <i>D 3062</i>	-Ilheu do Rei.	11° 51.3' N 15° 34.0' W	Fl.(2)G. period 10s fl. 1s, ec. 1s fl. 1s, ec. 7s	43 13	6	Round metal tower on white pyramid; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SENEGAL							
24540 <i>D 3060</i>	--Entrance Range, front.	11° 51.4' N 15° 34.9' W	L.F.I.G. period 7s fl. 2s, ec. 5s	43 13	4	White tower.	
24544 <i>D 3060.1</i>	---Rear, about 320 meters 346° from front.	11° 51.6' N 15° 35.0' W	L.F.I.G. period 7s fl. 2s, ec. 5s	118 36	4	N. tower of cathedral.	
24545 <i>D 3059</i>	-Dicol Oil Jetty.	11° 50.2' N 15° 35.4' W	2 Iso.R. period 4s				1 on each corner.
24552 <i>D 3064</i>	-Pedro Alvarez, Canal de Pedro Alvarez, W. side.	11° 37.9' N 15° 41.6' W	Fl.W. period 5s fl. 1s, ec. 4s	30 9	9	White square tower.	Radar reflector.
ARQUIPELAGO DOS BIJAGOS:							
24556 <i>D 3065</i>	-Ilha Galinhas, on NE. extremity.	11° 30.3' N 15° 39.4' W	Fl.(3)W. period 15s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 10s	23 7	9	White square tower; 26.	
-Porto do Bolama:							
24564 <i>D 3070</i>	--Porto Preco Leve.	11° 33.1' N 15° 27.7' W	Fl.W. period 5s fl. 1s, ec. 4s	20 6	9	White round tower, square base.	
24565 <i>D 3071</i>	--Bolama, N. pier.	11° 34.5' N 15° 28.5' W	Fl.W. period 3s	19 6			
24568 <i>D 3072</i>	--Ponta Colonia.	11° 32.3' N 15° 25.6' W	Fl.(2)W. period 10s fl. 1s, ec. 1s fl. 1s, ec. 7s	56 17	9	White square tower; 39.	Radar reflector.
24576 <i>D 3074</i>	-Ilha das Cobras, N. point.	11° 38.5' N 15° 28.5' W	Fl.W. period 5s fl. 1s, ec. 4s	33 10	9	White tower; 33.	
24580 <i>D 3078</i>	-Bubaque.	11° 18.1' N 15° 50.1' W	Fl.R. period 5s fl. 1s, ec. 4s	26 8	7	Black column.	
24588 <i>D 3081</i>	-Ilha Roxa, Ponta Barel.	11° 13.9' N 15° 39.7' W	Fl.(3)W. period 15s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 10s	79 24	9	White square masonry tower, red cross on E. side; 46.	
24596 <i>D 3080</i>	-Ilheu do Poilao.	10° 51.9' N 15° 43.1' W	Fl.(3)W. period 15s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 10s	82 25	9	Metal framework tower, white triangular daymark.	
GUINEA							
RIO NUNEZ:							
24600 <i>D 3084</i>	-Victoria.	10° 49.0' N 14° 34.0' W	Fl.W. period 6s fl. 1.5s, ec. 4.5s	46 14	6	White pillar on platform.	
24604 <i>D 3086</i>	-Port Kamsar Range, front.	10° 39.0' N 14° 37.0' W	FR.				
24608 <i>D 3086.1</i>	---Rear, 097° from front.	10° 39.1' N 14° 37.0' W	FR.				

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
GUINEA							
24612 <i>D 3087</i>	Cap Gonzalez.	10° 24.3' N 14° 41.5' W	Fl.(3)W. period 15s	33 10	15	Sheltered pillar.	
	RACON		G(- - •)		15		
24616 <i>D 3088</i>	Cap Verga.	10° 15.0' N 14° 26.0' W	Fl.(2)W. period 10s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 7.3s	394 120	20	Metal mast; 33.	Reserve light range 18M. Radiobeacon.
24618	<i>Rio Nunez Approach Buoy 3.</i>	10° 09.5' N 15° 12.0' W	Fl.(4)W. period 15s			Red buoy.	
	RACON		K(- • -)		10		
24620 <i>D 3090</i>	Ile Tamara.	9° 27.5' N 13° 50.0' W	Fl.W. period 5s	311 95	26	White round tower; 20.	Visible 220°-235° and 283°-161°.
	CONAKRY:						
24636 <i>D 3093</i>	-Boulbinet, on reef, SW. side of city.	9° 30.1' N 13° 43.2' W	Oc.(2)W.R. period 12s	43 13	W. 13 R. 10	White tower, red lantern; 39.	W. 108°-112°, R.-315°, W.-015°, R.-108°.
24640 <i>D 3094</i>	-Dique de la Prudente.	9° 30.5' N 13° 43.7' W	V.Q.(6)+L.Fl.W. period 10s	43 13	7	S. CARDINAL YB, pylon.	
24648 <i>D 3096</i>	Ile Matakong, Riviere Florikaria entrance, N. side.	9° 16.0' N 13° 26.0' W	Iso.W. period 4s	69 21	6	White tower; 39.	
SIERRA LEONE							
24656 <i>D 3098</i>	Cape Sierra Leone.	8° 29.9' N 13° 17.8' W	L.Fl.W. period 15s fl. 2s, ec. 13s	62 19	14	White round stone tower, red lantern, on dwelling; 69.	F.R. 3M on water tower 460 meters S. Radiobeacon 0.5 mile E.
			F.R.	49 15	12		Visible 064°-089°.
	FREETOWN:						
24664 <i>D 3098.5</i>	-Ferry Terminal.	8° 29.0' N 13° 14.0' W	F.G.		2		
24668 <i>D 3099</i>	-Falcon Bridge Point.	8° 30.0' N 13° 14.0' W	Iso.W. period 2s	42 13	3	White round metal tower, 2 black bands; 8.	<i>Reported unreliable (1984).</i>
24672 <i>D 3100.2</i>	-Queen Elizabeth II quay, E. end.	8° 29.6' N 13° 12.6' W	Fl.(3)G.	92 28	2	Building.	Iso.R. 3s 2M marks W. end of quay.
24676 <i>D 3101</i>	-Cline Point Range, front.	8° 30.0' N 13° 12.0' W	F.R.	23 7	1	Metal tripod; 16.	
24680 <i>D 3101.1</i>	--Rear, about 42 meters 127° from front.	8° 29.5' N 13° 12.2' W	F.W.	49 15	1	Metal framework tower on building; 39.	
24684 <i>D 3101.4</i>	-Fura, ferry terminal.	8° 29.0' N 13° 12.0' W	Fl.(2)G. period 7s fl. 1s, ec. 2s fl. 1s, ec. 3s	14 4	2	Red metal post, white bands; 8.	
24688 <i>D 3101.6</i>	-Tagrin Point, ferry terminal.	8° 31.0' N 13° 09.0' W	Fl.(2)G. period 7s fl. 1s, ec. 2s fl. 1s, ec. 3s	14 4	2	Red metal posts, white bands; 8.	
	BANANA ISLANDS:						
24692 <i>D 3102</i>	-Meheux Island, SW. extremity.	8° 05.0' N 13° 15.0' W	L.Fl.W. period 20s fl. 2.4s, ec. 17.6s	100 30	8	White tower; 12.	Visible 298°-180°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
LIBERIA							
MONROVIA:							
24696 D 3105	-Cape Mesurado.	6° 19.0' N 10° 49.0' W	Fl.W. period 6s	279 85	21	White conical masonry tower; 20.	
24700 D 3107	-S. breakwater.	6° 20.8' N 10° 48.9' W	L.Fl.G. period 10s fl. 3s, ec. 7s	36 11	4	White framework tower.	
24704 D 3106	-N. breakwater.	6° 21.0' N 10° 48.7' W	Fl.R. period 4s	33 10	7	White pylon.	
24708 D 3108	-Entrance Range, front.	6° 20.4' N 10° 47.8' W	F.R.	55 17	11	Metal framework tower.	
24712 D 3108.1	--Rear, 340 meters 120°45' from front.	6° 20.3' N 10° 47.7' W	F.R.	70 21	11	Red and white checkered water tank.	
24716 D 3110.5	King Gray.	6° 15.1' N 10° 41.7' W	F.R.		12		
24720 D 3111	Junk River.	6° 08.5' N 10° 23.1' W	Oc.W. period 5s		15		
24724 D 3112	-Grand Bassa Pt.	5° 52.1' N 10° 03.7' W	Iso.W.R. period 4s	95 29	15	Yellow and orange metal framework tower; 79.	Aeromarine light. R. 297°- 342°, W.-104°, R.-149°.
BUCHANAN:							
24728 D 3112.9	-Range, front.	5° 51.3' N 10° 02.8' W	3 F.Y. (vert.)			Daymark on mast.	<i>Temporarily extinguished (2009). Defines north limit of fairway. Occasional.</i>
24730 D 3113	--Common rear.	5° 51.3' N 10° 02.6' W	3 F.Y. (vert.)			Mast.	<i>Temporarily extinguished (2009). On request. Occasional.</i>
24732 D 3113.1	-Range, front, 103° to common rear.	5° 51.4' N 10° 02.9' W	3 F.Y. (vert.)			Framework tower on dolphin.	<i>Temporarily extinguished (2009). On request. Occasional.</i>
24734 D 3113.3	-Range, front.	5° 51.3' N 10° 02.7' W	3 F.Y. (vert.)			Daymark on mast.	<i>Temporarily extinguished (2009). Defines south limit of fairway. Occasional.</i>
24736 D 3113.31	--Rear.	5° 51.3' N 10° 02.6' W	3 F.Y. (vert.)			Mast.	<i>Temporarily extinguished (2009). Occasional.</i>
24740 D 3112.4	-Main breakwater, head.	5° 51.4' N 10° 03.6' W	Fl.G. period 3s fl. 0.3s, ec. 2.7s	31 9	3	White square concrete tower. Floodlit.	<i>Temporarily extinguished (2009). Occasional.</i>
24744 D 3112.6	-N. breakwater, head.	5° 52.0' N 10° 04.0' W	Fl.R. period 3s fl. 0.3s, ec. 2.7s	26 8	3	White square concrete tower. Floodlit.	<i>Temporarily extinguished (2009).</i>
24748 D 3113.8	Bafu Bay.	5° 11.0' N 9° 17.0' W	Fl.W. period 4s fl. 1s, ec. 3s		12		Obscured on bearings less than 030°.
SINO BAY:							
24752 D 3114	-South Point.	4° 59.0' N 9° 02.0' W	Fl.(4)W. period 20s	106 32	23	White square tower; 26.	<i>Reported unreliable.</i>
24756 D 3115.5	--Breakwater, head.	4° 59.4' N 9° 02.7' W	Fl.G. period 3s	16 5		White building.	
24758 D 3115	-N. Point.	4° 59.6' N 9° 02.6' W	Fl.(2)W.R. period 11s	36 11		Tower; 36.	R. 310°-040°, W.-080°, R.- 130°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
LIBERIA							
24760 D 3116	Cape Palmas.	4° 22.0' N 7° 44.0' W	Fl.(2)W. period 16s fl. 0.3s, ec. 3.7s fl. 0.3s, ec. 11.7s	104 32	24	White conical tower; 72.	
IVORY COAST							
24764 D 3118	Pointe Tafou.	4° 25.0' N 7° 22.0' W	Fl.(3)W. period 15s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 8s	82 25	20	White tower, black band and top; 46.	Visible 110°-200°.
24768 D 3120	San Pedro.	4° 45.0' N 6° 36.0' W	Fl.W. period 4s	348 106	13	Metal tower, red and white bands.	F.R. Aero obstruction lights on 4 corners at top.
24776 D 3120.4	-Entrance Range, front.	4° 44.0' N 6° 37.0' W	Oc.(2)G. period 6s lt. 1s, ec. 1s lt. 3s, ec. 1s	102 31	9	Metal pylon, red and white bands; 82.	Intensified 281°30'-301°30'.
24780 D 3120.41	--Rear, 620 meters 291°30' from front.	4° 44.5' N 6° 37.6' W	Q.G.	184 56	9	Metal pylon, red and white bands; 49.	Intensified 281°30'-301°30'.
24784 D 3120.2	-Jetee Ouest, head.	4° 44.0' N 6° 37.0' W	Fl.(2)W. period 3s	49 15	11	Red metal support on white tower.	V.Q.(3)R. 5s and V.Q.(3)G. 5s 3M mark sides of entrance.
24788 D 3122	Sassandra.	4° 57.0' N 6° 05.0' W	Oc.W. period 4s lt. 3s, ec. 1s	197 60	16	Tower; 23.	Visible over sector 250°.
24792 D 3123	-Mole, head.	4° 57.0' N 6° 04.9' W	Q.W.	33 10	2	White pylon, red band; 13.	A Q.R. light is shown from wharf about 805 meters 045°.
24796 D 3125	Grand Lahau.	5° 08.2' N 5° 01.2' W	Fl.(2+1)W. period 15s	43 13	15	White and red tower.	
	RACON		G(- - •)		15		
24798 D 3126	Adjue.	5° 11.6' N 4° 32.5' W	Fl.W. period 4s		15	White tower; 49.	
	ABIDJAN:						
	-Vridi Channel:						
24802	--Buoy R.	5° 12.9' N 4° 00.1' W	Mo.(A)W.			SAFE WATER RW, pillar, topmark.	
	--RACON		R(• - •)				
24804 D 3128	--S. jetty, head.	5° 14.3' N 4° 00.2' W	Oc.(2)R. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	52 16	11	Gray tower, red top; 43.	
24812 D 3129	--N. jetty, head.	5° 14.5' N 4° 00.2' W	Iso.G. period 4s	52 16	11	Gray tower, black top; 43.	Horn: 3 bl. ev. 30s (bl. 3s, si. 3s, bl. 3s, si. 3s, bl. 3s, si. 15s).
24816 D 3130	--Entrance Range, front.	5° 14.6' N 4° 00.7' W	Dir.Oc.R. period 4s lt. 3s, ec. 1s	46 14	18	Red tower, white rectangular daymark, framed by two white triangular beacons, white rectangular daymark; 39.	Intensified 294°30'-299°30'. Several F.R. and F.G. lights mark the channel.
24820 D 3130.1	---Rear, about 430 meters 297° from front.	5° 14.5' N 4° 00.9' W	Dir.Oc.R. period 4s lt. 3s, ec. 1s	59 18	18	White tower, white rectangular daymark, red V, framed by two white triangular beacons, red and white striped rectangular daymark; 52.	Intensified 294°30'-299°30'. Synchronized with front.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
IVORY COAST							
24824 D 3131	--Second Range, front.	5° 14.8' N 4° 00.9' W	Q.W.	56 17	22	White and black pylon.	
24828 D 3131.1	--Rear, 1.2 km. 304° from front.	5° 15.2' N 4° 01.5' W	Oc.(2)W. period 6s	98 30	23	White and black metal pylon.	
24832 D 3134	-Treitchville, quay.	5° 17.7' N 4° 01.7' W	Q.G.	75 23	8		
24836 D 3135	-Treitchville.	5° 17.8' N 4° 01.0' W	Fl.(2+1)G. period 12s	135 41	10	Water tower.	
24840 D 3127	-Port Bouet.	5° 14.5' N 3° 57.5' W	Fl.(3)W. period 14s	112 34	28	Square white tower, black top; 98.	Radiobeacon.
24842 D 8542.2	--Terminal.	5° 15.1' N 3° 57.8' W	Dir.F.R.		2		Visible 013°-019°.
24843 D 3137.5	-Grand Bassam.	5° 12.0' N 3° 43.9' W	Fl.W. period 5s	105 32	18		
GHANA							
24844 D 3138	Bobwasi Island.	4° 51.0' N 2° 15.0' W	Oc.W.R. period 17s lt. 14s, ec. 3s	79 24	19	White tower, red dome.	W. on bearing S. of 083°, R. elsewhere.
24848 D 3140	Cape Three Points.	4° 45.0' N 2° 06.0' W	Fl.W. period 5s fl. 0.3s, ec. 4.7s	126 38	27	White round tower, red lantern; 61.	Visible 268°-120°.
TAKORADI BAY:							
24852 D 3145	-Takoradi.	4° 53.0' N 1° 45.0' W	Fl.(2)W. period 3s	163 50	19	White water tower, red lantern.	Visible 220°-070°. A F.R. light is shown from each of three radio masts about 2 km. N. of Takoradi.
24856 D 3146	-Main breakwater, head.	4° 53.2' N 1° 44.0' W	Q.R.	35 11	9	Pylon; 25.	F.R. lights shown from 3 masts 2.8 km. NW.
24860 D 3148	-N. breakwater, head.	4° 53.1' N 1° 44.2' W	F.G.	32 10	9		Bell: 1 stroke ev. 5s.
24864 D 3151	-Cement clinker jetty.	4° 53.0' N 1° 44.0' W	Iso.G. period 4s	35 11	1		
SEKONDI:							
24868 D 3155.1	-Fort Orange.	4° 56.0' N 1° 42.0' W	Oc.(2)W.R. period 30s lt. 21s, ec. 3s lt. 3s, ec. 3s	128 39	19	White tower, red lantern; 46.	W. 181°-000°, R.-046°.
-Naval harbor:							
24872 D 3155	--Main breakwater, head.	4° 56.0' N 1° 42.0' W	Fl.R. period 3s	30 9	7	Red and white checkered tower.	In line with fort orange light 262°30'.
24876 D 3155.4	---Elbow.	4° 55.8' N 1° 41.9' W	Fl.W. period 3s	30 9	7	White square tower.	
24880 D 3156	--Lee, breakwater, head.	4° 56.1' N 1° 41.8' W	Fl.G. period 3s	30 9	7	Green and white checkered square tower.	
24884 D 3162	Accra (Akkra).	5° 32.0' N 0° 12.7' W	Fl.(4)W. period 25s fl. 0.3s, ec. 2.9s fl. 0.3s, ec. 2.9s fl. 0.3s, ec. 2.9s fl. 0.3s, ec. 15.1s	110 34	16	Gray round tower, red top; 92.	Visible 245°-077°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
GHANA							
24892 D 3166	-AVIATION LIGHT.	5° 36.0' N 0° 10.0' W	Al.W.G. period 5s	249 76		On hangar; 61.	Occasional.
TEMA:							
24896 D 3167	-Chemu Point.	5° 38.8' N 0° 01.5' E	Fl.W. period 7.5s	154 47	18	Black structure, white stripes.	F.R. lights shown on chimney 1.1 miles 351°.
24904 D 3167.2	-Main breakwater.	5° 37.0' N 0° 01.0' E	Mo.(U)R. period 10s	23 7	15		
	-RACON		Q(- - -)		20		
24908 D 3167.4	-Lee breakwater.	5° 37.6' N 0° 01.0' E	Iso.G. period 10s	23 7	15		
24910 D 3167.45	-No. 2 Quay, SE corner.	5° 37.6' N 0° 00.6' E	Fl.G.			White post; 13.	
24910.5 D 3167.46	--NW corner.	5° 37.7' N 0° 00.6' E	Fl.R.			White post; 13.	
24915 D 3167.5	-Outer Fishing Harbor, S. breakwater, head.	5° 37.9' N 0° 01.2' E	Q.R.	20 6	7		
24916 D 3167.52	--E. breakwater, head.	5° 37.9' N 0° 01.2' E	Q.G.	20 6	7		
24920 D 3167.6	-Fishing port, S. breakwater, head.	5° 38.1' N 0° 01.1' E	F.R.	16 5	1		A F.G. light is shown from head of E. breakwater.
24921 D 3167.8	--E. breakwater, head.	5° 38.1' N 0° 01.0' E	F.G.	16 5	1		
24924 D 3168	Cape St. Paul.	5° 50.0' N 0° 58.0' E	Fl.W. period 15s fl. 1.7s, ec. 13.3s	75 23	26	White pile structure, red bands; 83.	
TOGO							
RADE DE LOME:							
24928 D 3171	-Lome.	6° 08.0' N 1° 15.0' E	Fl.(2)W. period 10s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 7.2s	125 38	20	Gray water tower, red and white supports.	
24932 D 3174	-Port of Lome, Jeteo Ouest, head.	6° 08.0' N 1° 18.0' E	Oc.R. period 6s lt. 5s, ec. 1s	43 13	5	Red tower; 26.	
24936 D 3174.2	--Jeteo Est, head.	6° 08.0' N 1° 17.4' E	Oc.G. period 6s lt. 5s, ec. 1s		5	Green tower.	Siren: Mo.(L) ev. 25s.
24944 D 3173	-Baguida.	6° 10.0' N 1° 19.0' E	Oc.W.R. period 3s lt. 2.5s, ec. 0.5s	125 38	W. 17 R. 13	Aluminum-colored pylon, black top; 112.	W. shore-042°, R.-shore. Reserve light Q.R.
24948 D 3176	Kpeme, pier, extremity.	6° 11.0' N 1° 31.0' E	Oc.(2)W. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	82 25	11	Metal framework tower.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
BENIN							
24952 <i>D 3178</i>	Cotonou.	6° 21.1' N 2° 26.4' E	Fl.W. period 5s fl. 0.2s, ec. 4.8s	102 31	20	Gray metal framework tower; 85.	F.R. lights on radio mast 1.6 miles NE., 1.7 and 2.4 miles W., and 750 meters NW. Reserve light range 19M.
24956 <i>D 3179</i>	-Digue Ouest, head.	6° 20.6' N 2° 26.0' E	Oc.(2)R. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	33 10	8	Red round on white pylon.	
24960 <i>D 3180</i>	-Spur, head.	6° 20.4' N 2° 25.7' E	Fl.(4)R. period 15s		3	Metal column.	Oc.(3)Y., V.Q.R., F.Y. mark extensive changes to port area to NW.
24964 <i>D 3181</i>	-N. breakwater, head.	6° 20.7' N 2° 25.9' E	Iso.G. period 4s	26 8	4	Green column.	
NIGERIA							
LAGOS HARBOR:							
24968 <i>D 3870</i>	-Beecroff Point.	6° 24.2' N 3° 23.0' E	Fl.(2)W. period 15s fl. 0.5s, ec. 3.2s fl. 0.5s, ec. 10.8s	86 26	15	Black round tower, white band and lantern; 89.	
24976 <i>D 3873</i>	-E. mole, head.	6° 23.8' N 3° 24.2' E	Fl.G. period 3s fl. 0.6s, ec. 2.4s	30 9	5	White mast; 30.	Radar reflector.
24992 <i>D 3878</i>	--Middle.	6° 24.6' N 3° 24.2' E	Fl.R.				Storm signals.
24996 <i>D 3881</i>	-Wilmot Point S. Jetty, head.	6° 24.3' N 3° 24.4' E	Dir.Oc.(2)W.R.G. period 10s lt. 2s, ec. 1s lt. 6s, ec. 1s		6	Tower; 30.	G. 009°42'-015°42', W.-021°42', R.-029°42'.
			Q.G.		5		Visible 029°-189°.
25004 <i>D 3884</i>	-Marina, 351°.	6° 26.4' N 3° 24.1' E	Dir.Oc.(3)W.R.G. period 12s lt. 2s, ec. 1s lt. 2s, ec. 1s lt. 5s, ec. 1s		6		G. 341°30'-348°30', W.-353°30', R.-001°30'.
25008 <i>D 3885</i>	-Apapa Wharf, NE. corner.	6° 26.3' N 3° 23.7' E	Fl.R. period 8s		4		
25012 <i>D 3885.5</i>	--SE. corner.	6° 26.1' N 3° 23.6' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s		4		
25016 <i>D 3886</i>	-Tin Can Island, E.	6° 25.9' N 3° 21.6' E	Q.G.		5	Dolphin; 23.	
25018 <i>D 3886.3</i>	-Sea School Point.	6° 25.8' N 3° 21.0' E	Q.R.		5		Radar reflector.
25032 <i>D 3888</i>	-Carter Bridge, about 1430 meters 073°30' from Bluff Point Beacon.	6° 28.0' N 3° 23.1' E	F.G.	18 5	2		
ESCRAVOS RIVER:							
25036 <i>D 3900</i>	-Oidigbe.	5° 33.6' N 5° 10.9' E	Fl.(3)W. period 20s	130 40	17	Metal framework tower, black band.	Obscured on bearings of less than 008°.
25038 <i>D 8580.6</i>	-Berthing operations platform.	5° 30.5' N 5° 00.3' E	Mo.(U)W. period 15s	85 26		Metal structure; 85.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
NIGERIA							
25040	-Fairway buoy.	5° 29.0' N 5° 00.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s			Red spherical buoy, ball topmark.	Bell. Radar reflector.
25044	-Main mole, head. D 3904	5° 31.0' N 5° 06.0' E	Fl.W. period 10s	33 10	10	Metal framework tower; 26.	Radar reflector.
25048	-Island mole, S. head. D 3906	5° 31.3' N 5° 07.1' E	Fl.W. period 5s	23 7	8	Metal framework pylon with hut; 20.	Radar reflector.
25049	Loading Berth. D 8581.7	5° 10.2' N 5° 10.7' E	Mo.(U)W. period 15s	66 20	7		Horn: Mo.(U) 30s.
	RACON		D(- • •)				
25052	Middleton River Bell Buoy.	4° 30.0' N 5° 30.0' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s			Red and white striped buoy, ball topmark.	Bell. Radar reflector.
25056	Palm Point. D 3930	4° 16.2' N 6° 04.8' E	Fl.W. period 10s fl. 1.2s, ec. 8.8s	100 30	15	White metal pile structure.	The navigable spans of Benue Bridge are marked by F.G. lights when bridge is open and F.R. lights when closed. Not shown from Dec. 1 to May 31.
25058	Brass Oil Terminal Berth Operating Platform. D 8584.4	4° 04.0' N 6° 17.2' E	Mo.(U)W. period 15s Mo.(U)R. period 15s				Horn: Mo.(U).
	RACON		T(-)				
25064	-Bonny. D 3940	4° 24.2' N 7° 08.2' E	Fl.(2)W. period 20s fl. 0.3s, ec. 4.7s fl. 0.3s, ec. 14.7s	130 40	17	Gray skeleton framework tower.	Visible 214°-180°. F.R. lights on radio mast 2.4 miles NE.
	-RACON		B(- • • •)				
25068	--Boiler's Pier, near root. D 3944	4° 27.3' N 7° 10.3' E	Oc.G. period 2.5s	29 9			Signal station.
25070	Qua Iboe. D 8588.2	4° 14.2' N 8° 02.7' E	Mo.(U)W. period 15s				Horn.
	RACON		K(- • -)		20		Azimuth coverage 180°-090°.

CAMEROON

25084	Debundscha Point. D 3990	4° 06.3' N 8° 58.7' E	Fl.W.R. period 5s	134 41	16	White tower; 26.	R. 130°-161°, W.-130°.
	AMBAS BAY:						
25088	-Limbe Range, front. D 4008	4° 00.8' N 9° 12.1' E	F.R.			White beacon, black bands.	
25092	--Rear, 50 meters 032° from front. D 4008.1	4° 00.8' N 9° 12.1' E	F.R.			White beacon, black bands.	
25096	-Bota Pier, on flagstaff. D 4006	4° 00.9' N 9° 11.6' E	2 F.G. (vert.)		5	Flagstaff.	2 F.R. lights on a bearing 9°, marking the approach to Morton Bay, are located about 0.6 mile west from Bota flagstaff light.
25100	Cape Nachtgal. D 4000	3° 57.1' N 9° 12.8' E	Iso.W. period 2s	144 44	14	White masonry tower; 42.	Visible 285°-133°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CAMEROON							
BIMBIA RIVER:							
25104 <i>D 4018</i>	-Entrance Point.	3° 58.5' N 9° 17.1' E	Fl.W.R. period 7s fl. 0.5s, ec. 6.5s	14 4	8	Masonry hut, painted in red and white checkers; 13.	W. 228°-033°, R.-228°.
OFFSHORE ISLANDS							
EQUATORIAL GUINEA ISLA DE BOKO:							
25112 <i>D 4040</i>	-Punta Europa (Los Frailes).	3° 46.9' N 8° 43.0' E	Fl.(3)W. period 20s fl. 1s, ec. 4s fl. 1s, ec. 4s fl. 1s, ec. 9s	233 71	25	White framework tower, red bands.	Obscured by trees S. of 073°.
25116 <i>D 4039</i>	-Matabo (Santa Isabel) Airport.	3° 45.2' N 8° 42.9' E	Al.FI.W.G. period 6s	141 43		Control tower.	Occasional.
25120 <i>D 4032</i>	-Punta la de Unidad Africana(Punta Fernanda).	3° 45.7' N 8° 47.0' E	Oc.(4)R. period 12s lt. 5s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s	112 34	5	Column on pyramid; 26.	
25124 <i>D 4036</i>	-Malabo (Santa Isabel) Range, front.	3° 45.3' N 8° 47.1' E	Oc.(2)W. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	30 9	8	White column; 26.	
25128 <i>D 4036.1</i>	--Rear, 40 meters 120° from front.	3° 45.3' N 8° 47.1' E	Oc.(2)W. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	138 42	10	White pillar; 10.	
25136 <i>D 4028</i>	-Islote Horacio.	3° 45.5' N 8° 54.4' E	Fl.W. period 4s fl. 1s, ec. 3s	69 21	10	White pylon; 52.	
25140 <i>D 4043</i>	-Islote Loros, NW. side.	3° 32.4' N 8° 34.1' E	Q.W.	33 10	7	White metal tower; 13.	
25144 <i>D 4046</i>	--Punta Barcelonesa.	3° 27.9' N 8° 32.7' E	Fl.(4)W.R. period 15s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	144 44	W. 12 R. 10	White 6-sided tower, red bands; 52.	W. 090°-186°, R.-270°.
25146 <i>D 4051</i>	--Puerto Luba.	3° 27.5' N 8° 33.5' E	Oc.(2)W.R.G. period 6s lt. 1s, ec. 1s lt. 3s, ec. 1s	98 30	W. 8 R. 5 G. 5	White metal mast; 16.	R. 090°-150°, W.-180°, G.-270°, obsc.-090°. F.G. 3M 071.5° range inside Puerto Luba.
25156 <i>D 4056</i>	-Cabo Agudo, Punta Santiago.	3° 12.4' N 8° 40.6' E	Fl.(2+1)W. period 20s fl. 1s, ec. 7.5s fl. 1s, ec. 2s fl. 1s, ec. 7.5s	262 80	12	Metal framework tower; 82.	Visible 238°42'-104°42'. Aeromarine light.
25160 <i>D 4064</i>	-Fronton de Caracas.	3° 25.4' N 8° 48.5' E	Fl.(3)W.R. period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	59 18	W. 8 R. 5	White pyramidal tower; 26.	R. 200°-215°, W.-018°, R.-040°.
25164 <i>D 4060</i>	-Bahia de Riaba.	3° 22.9' N 8° 45.8' E	Fl.W.R.G. period 5s fl. 1s, ec. 4s		5	White tower; 20.	G. 090°-247°, W.-297°, R.-090°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
OFFSHORE ISLANDS							
ILHA DO PRINCIPE:							
25172 <i>D 4154</i>	-Ponta da Mina.	1° 39.0' N 7° 26.4' E	Fl.(2)W. period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	177 54	9	Tower, red and white bands; 16.	Visible 230°-292°.
25174 <i>D 4158.5</i>	-Focinho de Cao.	1° 36.3' N 7° 19.8' E	Fl.W. period 12s	49 15	12		
25174.5 <i>D 4159</i>	-Ilheu Caroco, Bone do Joquei.	1° 30.7' N 7° 25.8' E	Fl.(3)W. period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	95 29	12	White square tower, red bands; 16.	Obscured northwards.
25175 <i>D 4149</i>	-Ponta Chindela.	1° 37.7' N 7° 27.8' E	Fl.(4)W. period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 8.5s	115 35	9	White square tower, red bands; 16.	
25176 <i>D 4155</i>	-Santo Antonio do Principe.	1° 38.7' N 7° 25.4' E	Fl.(3)W.R.G. period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	43 13	W. 9 R. 6 G. 6	Lantern on harbor office, red and white stripes; 39.	G. shore-239°, W.-245°, R.-shore.
25177 <i>D 4154.2</i>	-Mosteiros.	1° 41.2' N 7° 28.3' E	Fl.W. period 7s fl. 1s, ec. 6s	82 25	12	White square tower, red bands; 16.	
25180 <i>D 4158</i>	-Ilheu Bombom, summit.	1° 42.0' N 7° 24.6' E	Fl.(2)W.R. period 10s	209 64	W. 12 R. 9	White square tower; 12.	W. 149°-124°, R.-149°.
25182 <i>D 4160</i>	-Tinhosa Grande, summit.	1° 20.7' N 7° 17.6' E	Fl.(2)W.R. period 15s fl. 1s, ec. 2s fl. 1s, ec. 11s	197 60	W. 12 R. 9	White square tower, red bands; 16.	W. 180°-155°, R.-180°.
ILHA DE SAO TOME.							
25183 <i>D 4243</i>	-Lagoa Azul.	0° 24.5' N 6° 37.0' E	Fl.(2)W. period 15s fl. 1s, ec. 2s fl. 1s, ec. 11s	112 34	12	White rectangular tower, red bands; 16.	
25184 <i>D 4230</i>	-Ilheu das Cabras, summit.	0° 24.6' N 6° 43.3' E	Fl.(2+1)W. period 15s fl. 1s, ec. 2s fl. 1s, ec. 5s fl. 1s, ec. 5s	322 98	12	White round tower, red lantern; 16.	
25192 <i>D 4237</i>	-Sao Sebastiao.	0° 20.7' N 6° 44.4' E	Fl.(4)W.R. period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	46 14	W. 12 R. 9	White round tower, red lantern, on fortress; 20.	R. 332°-171°, W.-332°.
-Porto de Ana Chaves:							
25196 <i>D 4234</i>	--Punta de San Jose Range, front.	0° 21.5' N 6° 43.9' E	Fl.G. period 2s fl. 0.5s, ec. 1.5s	30 9	6	White tower, red bands; 16.	
25200 <i>D 4234.1</i>	---Rear, about 80 meters 285° from front.	0° 21.5' N 6° 43.9' E	Iso.G. period 4s	30 9	6	White tower, red bands; 16.	
25201 <i>D 4238</i>	-Ilheu Santana.	0° 14.5' N 6° 46.0' E	Fl.W. period 7s fl. 0.8s, ec. 6.2s	144 44	12	Rectangular tower; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
OFFSHORE ISLANDS							
25202 D 4239	-Ponta do Io, Angolares.	0° 06.6' N 6° 39.5' E	Fl.(3)W.R. period 20s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 15.2s	128 39	W. 12 R. 9	Tower; 16.	W. 035°-015°, R.-035°.
25204 D 4241	-Ilheu Gago Coutinho.	0° 00.3' N 6° 31.6' E	Fl.(2)W. period 10s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	349 106	12	Yellow square tower, red lantern, on dwelling; 30.	
25205 D 4242	-Ponta Furada.	0° 14.6' N 6° 28.0' E	Fl.W. period 8s fl. 1s, ec. 7s	161 49	12	Rectangular tower; 16.	
ISLA DE PAGALU							
25208 D 4248	-Mission de Santo Antonio.	1° 24.2' S 5° 36.9' E	Fl.W. period 4s fl. 1s, ec. 3s	151 46	10	Masonry tower; 23.	
25210 D 4249	-Pointe San Antonio.	1° 27.6' S 5° 36.9' E	Oc.(4)R. period 12s lt. 1s, ec. 1s lt. 1s, ec. 1s lt. 1s, ec. 1s lt. 5s, ec. 1s		6		
CAMEROON							
KOLE:							
25212 D 3980	-SBM KLB1.	4° 14.5' N 8° 33.5' E	Mo.(U)W. period 30s		6	Yellow superbuoy.	Floating hose marked by Fl.W. lights. Horn: Mo.(U) 30s Radar reflector.
25213 D 3981	-SBM KLB2.	4° 12.7' N 8° 33.5' E	Mo.(U)W. period 30s		6	Yellow superbuoy.	Horn: Mo.(U) 30s Radar reflector.
ANTAN:							
25226 D 8588.6	-Antan oil terminal FPSO6.	4° 13.3' N 8° 20.1' E	Mo.(U)W. period 15s		10	Storage tanker at piled platform.	Horn: Mo.(U).
DOUALA:							
25232	-Approach buoy Wouri, entrance to Riviere Cameroun.	3° 45.0' N 9° 23.0' E	L.Fl.W. period 10s fl. 3s, ec. 7s			SAFE WATER RW, pillar, topmark.	Buoys of unreliable position and characteristic mark channel northeastward.
25233	-Cap Cameroun, RACON.	3° 54.7' N 9° 28.7' E	C(- • - •) period 30s		16		
25234	-Pointe Souellaba, RACON.	3° 49.1' N 9° 33.1' E	D(- • •) period 30s		16		
KRIBI:							
25236 D 4134	-Margaret Point, entrance Range, front.	2° 56.0' N 9° 54.5' E	Fl.(3)W. period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	59 18	14	White tower, red top; 49.	Visible over an arc of 225°.
25240 D 4134.1	--Rear, about 555 meters 115° from front.	2° 55.9' N 9° 54.6' E	Dir.F.G.	98 30	8	Belfry; 43.	Visible on range line only. Light on radio mast 1 mile SSE.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
EQUATORIAL GUINEA							
25248 <i>D 4170</i>	Punta Mbonda.	2° 05.6' N 9° 46.0' E	Fl.(3+1)W. period 20s fl. 0.1s, ec. 3.3s fl. 0.1s, ec. 3.3s fl. 0.1s, ec. 6.5s fl. 0.1s, ec. 6.5s	119 36	20	Octagonal brick tower; 115.	Aeromarine light.
25252 <i>D 4175</i>	Puerto Macias Nguema, jetty, head.	1° 49.6' N 9° 44.4' E	Iso.W.R. period 4s	9 3	W. 11 R. 7	Metal mast; 16.	R. 159°-204°, W.-159°.
25256 <i>D 4174</i>	Bata, wharf, SW corner	1° 52.4' N 9° 46.3' E	Iso.W.R. period 4s	42 13	W. 8 R. 5	Aluminum mast; 26.	R. 000°-159°, W.-204°. F.R. lights on radio towers 2.4 miles NE. and 1 mile ENE.
25260 <i>D 4175.5</i>	Punta Ngaba.	1° 44.7' N 9° 40.9' E	Fl.W. period 5s fl. 0.1s, ec. 4.9s	62 19	18	Metal tower, concrete base; 78.	
RIO BENITO:							
25264 <i>D 4176</i>	-Punta Mbode.	1° 37.4' N 9° 36.4' E	Q.(4)W. period 9s fl. 0.2s, ec. 0.8s fl. 0.2s, ec. 0.8s fl. 0.2s, ec. 0.8s fl. 0.2s, ec. 5.8s	46 14	6	Light gray metal framework; 39.	
25268 <i>D 4180</i>	-Punta Negra Pier.	1° 35.3' N 9° 37.8' E	F.R.	11 3	1	Concrete column; 7.	F.G. 4m 1M light marks Villa de Benito pier head 0.5 mile WSW.
25272 <i>D 4177</i>	-Forestry Service, S. side of entrance.	1° 34.8' N 9° 36.4' E	Q.(3)W. period 6s fl. 0.3s, ec. 0.7s fl. 0.3s, ec. 0.7s fl. 0.3s, ec. 3.7s	56 17	7	Light gray metal framework tower; 23.	
25276 <i>D 4190</i>	Cabo San Juan.	1° 10.4' N 9° 20.5' E	Fl.(2)W. period 10s fl. 0.1s, ec. 2.4s fl. 0.1s, ec. 7.4s	79 24	15	Red pylon; 59.	FW. 167 meters NW.
BAHIA DE CORISCO:							
25288 <i>D 4210</i>	-Rio Muni. Port de Cogo, Dir. Lt 058°.	1° 05.0' N 9° 41.7' E	Dir.Iso.W.R.G. period 4s	105 32	W. 9 R. 7 G. 7	Red tower; 52.	G. 043-057°, W.-059°, R.- 073°.
25300 <i>D 4200</i>	-Isla de Corisco, N. end.	0° 56.0' N 9° 19.0' E	Fl.W. period 4s fl. 1s, ec. 3s	92 28	8	Red square tower; 10.	
GABON							
25304 <i>D 4260</i>	Pointe N'Dombo.	0° 56.3' N 9° 33.1' E	Fl.W. period 4s	24 7	8	White square tower; 26.	
25308 <i>D 4266</i>	Ile Nende, Riviere Mondah.	0° 35.9' N 9° 32.7' E	Oc.(2)W. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	98 30	6	Tower, white rectangular daymark.	
25312 <i>D 4272</i>	Cap Esteiras.	0° 37.2' N 9° 19.6' E	Fl.(2+1)W. period 12s fl. 1s, ec. 1s fl. 1s, ec. 4s fl. 1s, ec. 4s	59 18	8	White beacon; 59.	
ESTUAIRE DU GABON:							
25316 <i>D 4276</i>	-Pointe Gombe.	0° 18.3' N 9° 18.3' E	Fl.W. period 10s fl. 0.7s, ec. 9.3s	187 57	25	White column, black band; 39.	The lights in the estuary are unreliable.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
GABON							
25344 <i>D 4284.2</i>	-Port Libreville, breakwater, NW. head.	0° 24.1' N 9° 26.1' E	Iso.G. period 4s		5		
25348 <i>D 4284</i>	--Breakwater, SE. head.	0° 23.9' N 9° 26.2' E	Iso.R. period 4s		5	White square tower, red top.	
25356 <i>D 4286</i>	-Pointe Owendo.	0° 17.2' N 9° 30.5' E	Fl.(2)W. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	150 46	8	White square tower, red top; 33.	
25364 <i>D 4287.5</i>	--Pier.	0° 17.5' N 9° 30.9' E	Fl.G. period 5s fl. 0.5s, ec. 4.5s	16 5	3	Black and white tower; 13.	
PORT GENTIL:							
25372 <i>D 4290</i>	-Capitaines Beacon.	0° 37.6' S 8° 43.1' E	Fl.R. period 2s	36 11	8	Yellow beacon.	
25373 <i>D 4290.1</i>	Cap Lopez.	0° 37.8' S 8° 42.4' E	Fl.W. period 5s fl. 0.7s, ec. 4.3s	118 36	20	White tower with red top, 98.	
OIL WELL AREA S. OF CAP LOPEZ:							
25388 <i>D 8605</i>	-N. corner.	0° 47.0' S 8° 44.2' E	Mo.(U)W.	42 13	7	Platform.	Horn: Mo.(U).
Some unlit oil structures are found in this area.							
25404	--Wells DRM-1.	1° 01.0' S 8° 46.0' E	Fl.(3)W. period 10s	33 10	3	Black pipe, black ball daymark.	
25408	--Wells 1.	1° 04.0' S 8° 43.0' E	Fl.(3)W. period 10s	33 10	3	Black pipe, black ball daymark.	
25420 <i>D 8605.2</i>	--W. angle.	1° 09.0' S 8° 29.0' E	Mo.(U)W.R. period 10s	23 7	9	Oil well platform Girelle.	W. 341°-203°, R. -341°. Horn: Mo.(U).
25424 <i>D 8605.3</i>	--Grondin, SW corner.	1° 26.7' S 8° 39.9' E	Mo.(U)W.		9	Platform.	Horn: Mo.(U).
25428	--Wells BRM-1.	1° 29.0' S 9° 06.0' E	Q.W.	33 10	3	Black pipe, black ball daymark.	
25440 <i>D 8605.4</i>	--SE. angle.	1° 36.0' S 9° 12.6' E	Mo.(U)W. period 12s	39 12	7	Pylon.	
25444 <i>D 8610</i>	Gamba.	2° 47.0' S 10° 01.1' E	Fl.(2)W. period 10s	154 47	18	White metal framework tower; 131.	Q.R. light at Nyranga anchorage reported approximately 16 miles SE.

CONGO

BAIE DE POINTE NOIRE:

25452 <i>D 4311</i>	-Pointe Noire.	4° 47.4' S 11° 50.2' E	Fl.W. period 5s fl. 0.3s, ec. 4.7s	89 27	24	Black and white tower; 66.	Visible 329°-194°.
25460 <i>D 4315</i>	-Detached breakwater, N. head.	4° 46.6' S 11° 50.0' E	Oc.(2)R. period 6s lt. 1s, ec. 1s lt. 1s, ec. 3s	33 10	3	White tower.	
25464 <i>D 4315.1</i>	-Cathedral.	4° 47.7' S 11° 50.7' E	2 F.R. (horiz.)	131 40	9	Cathedral.	Visible 124°-174°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
CONGO							
25476 <i>D 4314</i>	-Inner breakwater, W. side of entrance.	4° 46.6' S 11° 49.9' E	Iso.G. period 4s	33 10	3	White tower.	
25484 <i>D 4319</i>	Djeno.	4° 55.0' S 11° 55.8' E	Oc.W.R. period 4s lt. 3s, ec. 1s	95 29	W. 18 R. 15		W. 073°-003°, R.-073°.
CABINDA							
25492 <i>D 4326</i>	Punta de Landana.	5° 14.4' S 12° 08.0' E	Oc.W. period 5s lt. 3s, ec. 2s	198 60	9	White square tower; 29.	
25496 <i>D 4332</i>	Malongo Range, front.	5° 23.6' S 12° 11.8' E	Iso.R. period 2s	30 9	8	White triangular tower; 33.	
25500 <i>D 4332.1</i>	-Rear, about 0.4 km. 070° from front.	5° 23.6' S 12° 11.8' E	Iso.R. period 4s	397 121	8	White triangular tower; 33.	
25502 <i>D 8625</i>	Malongo Oil Terminal Platform.	5° 24.8' S 11° 59.5' E	Mo.(U)W. period 10s		5		Horn: Mo.(U) 20s.
	RACON		G(- - •)				
25503	Platform Lima.	5° 14.7' S 11° 49.8' E	Mo.(U)W.				Horn: 1 bl. ev. 20s.
	RACON						
25504 <i>D 4340</i>	Cabinda.	5° 32.9' S 12° 11.0' E	Fl.(2)W. period 10s fl. 0.3s, ec. 3.5s fl. 0.3s, ec. 5.9s	89 27	20	White square framework tower, white hut; 65.	
25506 <i>D 4342.5</i>	-Cabinda Airport AVIATION LIGHT.	5° 35.2' S 12° 11.7' E	Al.FI.W.G.	98 30			Occasional.
25508 <i>D 4343</i>	-Simulambuco Range, front.	5° 33.2' S 12° 13.3' E	Iso.R. period 2s	30 9	4	White quadrangular masonry tower.	
25512 <i>D 4343.1</i>	--Rear, 302 meters 110° from front.	5° 33.2' S 12° 13.5' E	Iso.R. period 4s	150 46	4	White quadrangular masonry tower.	
ZAIRE							
25516 <i>D 4370</i>	Pointe Kupundji.	5° 53.4' S 12° 17.7' E	Fl.W. period 5s	102 31	15	White metal tower; 31.	
25524 <i>D 4390</i>	Pointe Bulabemba.	6° 03.0' S 12° 27.0' E	Iso.W.R. period 6s	56 17	13	White metal tripod.	W. 286°-106°, R.-143°, obsc.-286°.
ANGOLA							
CONGO RIVER ENTRANCE SOUTH SIDE:							
25528 <i>D 4380</i>	-Moita Seca.	6° 06.7' S 12° 16.5' E	Fl.(3)W. period 10s fl. 0.3s, ec. 1.5s fl. 0.3s, ec. 1.5s fl. 0.3s, ec. 6.1s	66 20	12	White hexagonal iron skeleton tower; 69.	Visible 008°-202°. Destroyed (T) 2010.
25532 <i>D 4382</i>	-Ponta do Padrao.	6° 04.7' S 12° 19.7' E	Fl.G. period 4s	26 8	6	White pylon; 23.	Radar reflector.
25536 <i>D 4384</i>	-Santo Antonio Entrance Range, front.	6° 07.4' S 12° 21.9' E	F.R.	13 4	6	Metal lantern on white triangular mark, point up.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ANGOLA							
25540 <i>D 4384.1</i>	--Rear, about 150 meters 152°18' from front.	6° 07.5' S 12° 22.0' E	F.R.	30 9	6	Metal lantern on white triangular mark, point down.	Aero Radiobeacon about 0.8 mile SSE.
25544 <i>D 8629</i>	-Sazaire Oil Terminal.	6° 05.8' S 12° 23.0' E	Iso.W. period 4s			Platform.	
25552 <i>D 8633</i>	Oil loading terminal tower.	6° 30.3' S 12° 27.6' E	L.Fl.W. period 7s fl. 2s, ec. 5s	23 7	5	Metal column.	Horn: Mo.(U) ev. 30s.
25556 <i>D 5003</i>	Cabeça de Cobra.	6° 32.8' S 12° 30.0' E	Fl.W. period 4s fl. 0.3s, ec. 3.7s	138 42	19	White square tower, small white house on N. side; 43.	
25560 <i>D 5006</i>	Ponta do Quinzau.	6° 53.3' S 12° 45.4' E	Mo.(V)W. period 12s fl. 0.8s, ec. 1s fl. 0.8s, ec. 1s fl. 0.8s, ec. 1s fl. 2.6s, ec. 4s	180 55	20	Yellow square tower, black bands, white dwellings; 49.	
25564 <i>D 5040</i>	Ambrizete.	7° 15.7' S 12° 51.2' E	Fl.(3)W. period 10s fl. 0.3s, ec. 1.7s fl. 0.3s, ec. 1.7s fl. 0.3s, ec. 5.7s	110 34	17	White square tower, cross daymark; 65.	
25568 <i>D 5060</i>	Ambriz.	7° 50.1' S 13° 06.0' 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	108 33	16	White square tower; 45.	
25572 <i>D 5080</i>	Ponta do Dande.	8° 28.1' S 13° 20.8' E	Fl.(2)W. period 10s fl. 0.3s, ec. 1.4s fl. 0.3s, ec. 8s	207 63	16	White square masonry tower, red bands.	
BAIA DE LUANDA:							
25576 <i>D 5100</i>	-Ponta das Lagostas.	8° 45.4' S 13° 18.4' E	Oc.(2)R. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	266 81	7	White quadrangular tower, two dwellings attached; 46.	Radar reflector.
25584 <i>D 5101</i>	-Ilha do Cabo, Ponta da Ilha.	8° 45.6' S 13° 15.9' E	Fl.(3)W. period 8s fl. 2s, ec. 1.4s fl. 0.9s, ec. 1.4s fl. 0.9s, ec. 1.4s	36 11	9	White square metal framework tower on building; 36.	
25596 <i>D 5104</i>	-Pedras de Mae-Isabel.	8° 47.9' S 13° 14.5' E	F.W.	15 5	1	Tower with gallery, black and white bands, on stone base.	
25600 <i>D 5150</i>	Ponta das Palmeirinhas.	9° 04.2' S 12° 59.3' E	Fl.W. period 4.5s fl. 0.3s, ec. 4.2s	131 40	21	White square tower; 36.	Aeromarine light.
25604 <i>D 5180</i>	Cabo Ledo.	9° 41.0' S 13° 12.0' E	Fl.(3)W. period 15s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 8.5s	335 102	17	White hexagonal masonry tower, galleries, two small buildings attached; 39.	
25608 <i>D 5200</i>	Cabo das Tres Pontas.	10° 23.0' S 13° 32.0' E	Fl.(2)W. period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	168 51	12	White square masonry tower, small building; 46.	
25612 <i>D 5226</i>	Cambiri.	10° 43.8' S 13° 45.0' E	F.I.R. period 4s fl. 1s, ec. 3s	211 64	3	White hut; 13.	
25616 <i>D 5228</i>	--Pier, NW. corner.	10° 43.7' S 13° 45.1' E	F.R.	9 3	3	Column.	
25620 <i>D 5228.2</i>	--SW. corner.	10° 43.7' S 13° 45.1' E	F.G.	15 5	3	Column.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ANGOLA							
25624 D 5224	Porto Amboim.	10° 45.4' S 13° 43.2' E	Oc.(2)W. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	361 110	9	White square tower, attached dwellings; 39.	
25628 D 5240	Novo Redondo, NE. corner of fort.	11° 11.5' S 13° 50.2' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	112 34	8	Black column on house; 23.	
25632 D 5250	Quicombo.	11° 21.0' S 13° 48.0' 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	450 137	16	White square tower; 46.	Aeromarine light.
25636 D 5270	Punta do Egito.	11° 59.9' S 13° 43.5' E	Fl.W. period 4s fl. 0.3s, ec. 3.7s	450 137	19	White round tower, red stripes.	<i>Temporarily extinguished.</i>
BAIA DO LOBITO:							
25640 D 5280	-Lobito.	12° 19.2' S 13° 35.7' E	Fl.(2)W. period 10s	348 106	20	White round tower, dwelling; 49.	
25644 D 5288	-Restinga.	12° 18.9' S 13° 35.0' E	Fl.W. period 6s	46 14	7	Red metal framework, white bands; 36.	Radar reflector.
BAIA DE BENGUELA:							
25648 D 5312	-Ponta de Sombreiro, W. point of bay.	12° 35.0' S 13° 17.9' E	Oc.(3)W. period 9s lt. 3.6s, ec. 1s lt. 1.2s, ec. 1s lt. 1.2s, ec. 1s	424 129	8	Red column on white dwelling; 23.	
25652 D 5300	-Old fort, N. face	12° 34.4' S 13° 23.9' E	Iso.W.R.G. period 2s	36 11	W. 10 R. 8 G. 7	Square tower; 23.	R. 053°-090°, W.-190°, G.-233°.
25656 D 5300.1	--Rear 490 meters 118° from front.	12° 34.5' S 13° 24.1' E	F.R.	53 16	3	Tower of church; 39.	
25660 D 5304	--Pier, NE. corner, head.	12° 35.1' S 13° 23.2' E	Fl.R. period 2s fl. 0.2s, ec. 1.8s	15 5	2	Metal column; 10.	
25662 D 5304.2	--SW. corner.	12° 35.1' S 13° 23.2' E	Fl.G. period 2s	15 5	2	Column.	
25664 D 5324	Ponta das Salinos.	12° 50.0' S 12° 56.0' E	Fl.W. period 4s fl. 0.3s, ec. 3.7s	128 39	21	Square tower; 124.	Aeromarine light.
25668 D 5328	Ponta dos Frades.	13° 12.9' S 12° 42.8' E	Oc.(2)W. period 7.5s lt. 2s, ec. 0.5s lt. 2s, ec. 3s	463 141	19	White round tower with 2 dwellings attached; 30.	
25672 D 5336	Cabo de Santa Maria.	13° 25.2' S 12° 31.9' E	Fl.(3)W. period 13s fl. 0.3s, ec. 1.9s fl. 0.3s, ec. 1.9s fl. 0.3s, ec. 8.3s	335 102	17	White square masonry tower and house; 39.	<i>Temporarily extinguished (2011).</i>
25676 D 5346	Cabo de Santa Marta.	13° 52.6' S 12° 25.4' E	Fl.(2)W. period 6s fl. 0.3s, ec. 1.2s fl. 0.3s, ec. 4.2s	159 48	12	White hexagonal masonry tower; 46.	
25680 D 5356	Ponta Grossa.	14° 13.0' S 12° 20.0' 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	164 50	16	White square masonry tower; 46.	Aeromarine light.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
ANGOLA							
25684 D 5370	Ponta Piambo.	14° 41.3' S 12° 16.8' E	Fl.(3)W. period 10s fl. 0.2s, ec. 1.5s fl. 0.2s, ec. 1.5s fl. 0.2s, ec. 6.4s	177 54	17	Black and white striped square tower; 38.	
BAIA DE MOCAMEDES:							
25688 D 5400	-Ponta do Giraul.	15° 08.2' S 12° 06.7' E	Fl.W. period 5s fl. 0.7s, ec. 4.3s	99 30	18	White square tower; 78.	<i>Temporarily extinguished (2001).</i>
25692 D 5404	-Porto Salazar, entrance Range, front.	15° 07.8' S 12° 08.5' E	Iso.R. period 2s	33 10	3	White column on tower.	
25696 D 5404.1	--Rear, about 2.7 km. 037°30' from front.	15° 06.7' S 12° 09.4' E	Iso.R. period 4s	158 48	3	White column on tower.	
25700 D 5418	-Fortaleza de S. Fernando.	15° 11.8' S 12° 08.6' E	Oc.(2)R. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	94 29	6	White structure; 13.	Visible 083°-197°.
25704 D 5420	--Quay, N. end.	15° 11.5' S 12° 07.8' E	Fl.G. period 2s fl. 0.2s, ec. 1.8s	15 5	2	Column; 10.	
25708 D 5414	-Ponta Noronha.	15° 11.3' S 12° 07.5' E	Fl.W.G. period 3s fl. 0.3s, ec. 2.7s	128 39	W. 7 G. 6	White masonry tower, black band.	G. 055°-115°, W.-055°. Aero Radiobeacon 3.4 miles ESE.
25712 D 5430	Rio dos Flamengos.	15° 33.8' S 12° 01.9' E	Fl.(3)W. period 15s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 8.5s	361 110	26	Round tower, white and yellow stripes, two white houses attached; 36.	
25716 D 5436	Porto Alexandre, on Ponta do Port.	15° 47.1' S 11° 51.0' E	Oc.(3)W.G. period 9s lt. 3.6s, ec. 1s lt. 1.2s, ec. 1s lt. 1.2s, ec. 1s	36 11	W. 9 G. 7	Tripod on white hut, orange diagonal stripes; 26.	W. 215°-185°, G.-215°. Radar reflector.
25720 D 5442	Ponta Albina.	15° 53.0' S 11° 44.0' E	Fl.(2)W. period 10s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 7.2s	115 35	21	White square tower; 124.	Aeromarine light. Siren: 1 bl. ev. 15s.
BAIA DOS TIGRES:							
25724 D 5460	- Ponta da Marca.	16° 30.9' S 11° 42.8' E	Fl.(3)W. period 11s fl. 0.5s, ec. 1.7s fl. 0.5s, ec. 1.7s fl. 0.5s, ec. 6.1s	49 15	18	White conical tower on piles; 42.	Radar reflector.
25728 D 5464	-Leao.	16° 35.9' S 11° 43.4' E	Oc.(2)G. period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	36 11	6	Gray square metal tower; 33.	
NAMIBIA							
25752 D 5510	Swakopmund.	22° 40.7' S 14° 31.5' E	Fl.(2)W. period 10s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 7.3s	115 35	18	Red tower, white band; 92.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
NAMIBIA							
WALVIS BAY:							
25756 <i>D 5520</i>	-Pelican Point.	22° 53.5' S 14° 26.1' E	Fl.(3)W. period 20s fl. 0.3s, ec. 3.6s fl. 0.3s, ec. 3.6s fl. 0.3s, ec. 11.9s	115 35	22	Black round tower, white bands; 112.	Radiotelephone. Horn: (about 200 yards N.) Mo.(P) ev. 30s (bl. 1.5s, si. 2s, bl. 4s, si. 2s, bl. 4s, si. 2s, bl. 1.5s, si. 13s).
	-RACON		D(- • •) period 72s		12		
25760	<i>-Approach Bell Spit Bell, 4 km. 020° from Pelican Point.</i>	22° 52.0' S 14° 27.0' E	Q.W.			N. CARDINAL BY, spar, topmark.	Bell. Radar reflector.
25768 <i>D 5522</i>	-Channel Range, front.	22° 57.1' S 14° 29.8' E	F.R.	65 20	15	On warehouse.	Visible 178°-188°.
25772 <i>D 5522.1</i>	--Rear, 675 meters 183° from front.	22° 57.5' S 14° 29.7' E	F.G.	105 32	12	Framework tower.	Visible 178°-188°.
25776 <i>D 5524</i>	-Transit Range, front.	22° 57.3' S 14° 29.2' E	Iso.W. period 2s	3 1	5	Platform.	Shown 24 hours.
25780 <i>D 5524.1</i>	--Rear, 450 meters 246° from front.	22° 57.3' S 14° 28.9' E	Q.R.	6 2	5	Platform.	Visible 236°-256°. Shown 24 hours.
25784 <i>D 5528</i>	-Tanker berth, N. end.	22° 56.6' S 14° 30.0' E	Fl.(2)R. period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	20 6	3	Pole.	Fl.(3) R. 15s shown from S. end.
25785 <i>D 5531</i>	Hofmeyer Wharf, NE. corner.	22° 56.9' S 14° 29.9' E	F.G.	16 5			Q.R. and F.R. light are shown on small craft harbor pier to NNE.
25788 <i>D 5600</i>	-Diaz Point.	26° 38.2' S 15° 05.6' E	Fl.W. period 10s fl. 0.3s, ec. 9.7s	174 53	22	White round tower, red band; 92.	Horn: (450 meters NNW.) 1 bl. ev. 20s (bl. 2s, si. 18s).
			F.W.R.	164 50	W. 5 R. 3		W. 200°-230°, R.-290°.
25792 <i>D 5607</i>	-Robert Harbor, entrance Range, front.	26° 37.9' S 15° 09.9' E	Q.W.	56 17			
25796 <i>D 5607.1</i>	--Rear, 250 meters 120° from front.	26° 38.0' S 15° 10.0' E	Fl.R. period 2s	76 23			
25808 <i>D 5606</i>	-Shark Island.	26° 38.1' S 15° 09.2' E	L.Fl.W.R.G. period 10s fl. 2.5s, ec. 7.5s	111 34	8	Metal framework tower; 10.	G. 039°-136°, W.-161°, R.- 180°, obscured elsewhere.
25812 <i>D 5608</i>	-Menai Creek, main pier.	26° 38.5' S 15° 09.3' E	F.G.				F.R. shown from head of timber jetty.

SOUTH AFRICA

PORT NOLLOTH:							
25824 <i>D 5660</i>	-Range, front.	29° 15.0' S 16° 52.1' E	F.W. or R.	3 1	5		Port signals, R. when bar is closed. On request. Horn: 1 bl. ev. 15s.
25828 <i>D 5660.1</i>	-Carl von Schlick , rear, 50 meters 066° from front.	29° 14.9' S 16° 52.0' E	Fl.(3+1)W. period 24s	56 17	19	Metal framework tower, black and white bands, triangular daymark; 36.	Bar signals. Signal station.
	-RACON		Z(- - • •) period 72s		12		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH AFRICA							
25832 D 5704	Hondeklip Bay.	30° 18.5' S 17° 16.3' E	Fl.(3)W. period 15s fl. 0.1s, ec. 2.3s fl. 0.1s, ec. 2.3s fl. 0.1s, ec. 10.1s	108 33	16	White round concrete tower; 43.	
25836 D 5705	-Hondeklip Bay.	30° 18.9' S 17° 16.6' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	23 7	9	Iron column on white square concrete structure; 9.	Visible 093°-099°.
25838 D 5720	Groenriviermond.	30° 51.9' S 17° 34.8' E	Fl.W. period 5s fl. 0.3s, ec. 4.7s	89 27	26	Yellow round concrete tower, black band; 56.	
25840 D 5734	Doringbaai.	31° 49.0' S 18° 13.9' E	Fl.(2)W. period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	118 36	25	Round concrete tower, black band; 79.	
25844 D 5770	Lambert's Bay, E. breakwater head.	32° 05.1' S 18° 18.3' E	Fl.W. period 2s	43 13	13	White concrete tower.	
25848 D 5773	-Random Mole, inner breakwater, head.	32° 05.3' S 18° 18.4' E	L.Fl.R. period 10s	20 6	10		
25852 D 5772	-Dir. Lt. 186°.	32° 05.4' S 18° 18.3' E	Dir.F.W.R.G.	16 5	3	White tower.	
25860 D 5774	-Channel, on concrete pier about 389 meters 175° from breakwater.	32° 05.4' S 18° 18.3' E	Q.R.		4	White concrete tower.	
GROOTBERGRIVIER:							
25864 D 5790	-Berg River, entrance, W. breakwater, head.	32° 46.1' S 18° 08.6' E	Fl.W. period 2s	30 9	7		
25868 D 5791	--S. head.	32° 46.3' S 18° 08.7' E	Fl.G. period 2s		3		
25872 D 5792	-E. breakwater, head.	32° 46.1' S 18° 08.7' E	Fl.R. period 2s		3		
25874 D 5792.2	--Inner E. breakwater, head.	32° 46.2' S 18° 08.7' E	F.R.		3		
	--RACON		B(- • • •)		12		
25876 D 5794	St. Helenabaai, Sandy Point, jetty, head.	32° 44.5' S 18° 01.3' E	Fl.W. period 5s fl. 0.5s, ec. 4.5s	20 6	5		
25880 D 5798	Stompneus Punte, Cape St. Martin, N. side.	32° 42.2' S 17° 59.0' E	Fl.W. period 3s fl. 0.3s, ec. 2.7s	36 11	10	Square white brick structure, white lantern, green dome; 26.	
25884 D 5801	Cape St. Martin.	32° 42.9' S 17° 55.3' E	Fl.W.R. period 10s	56 17	W. 22 R. 19	Lattice mast with cone daymark, point down.	R. 095°-130° (over Britannia Reef), W.-095°.
25888 D 5803	Seal Island.	32° 44.3' S 17° 52.3' E	Fl.(2)W. period 5s fl. 0.3s, ec. 1s fl. 0.3s, ec. 3.4s	33 10	6	Mast topped by crow's nest; 20.	
	RACON		X(- • • -)				
25892 D 5810	Cape Columbine.	32° 49.6' S 17° 51.5' E	Fl.W. period 15s fl. 0.2s, ec. 14.8s	262 80	30	White square concrete tower; 50.	Nauphone: 1 bl. ev. 60s.
25896 D 5830	Saldanhaabaai.	33° 03.0' S 17° 54.7' E	Fl.(3)W. period 20s fl. 0.3s, ec. 3s fl. 0.3s, ec. 3s fl. 0.3s, ec. 13.1s	112 34	23	Aluminum lattice tower, rectangular daymark; 70.	
25900 D 5834	-Marcus Island, S. side.	33° 02.7' S 17° 58.2' E	Fl.(2)W. period 10s	56 17	10	Framework tower.	F.R. marks radio mast 8 miles NE.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH AFRICA							
25902 <i>D 5836</i>	-Small craft harbor, breakwater, head.	33° 01.4' S 17° 57.6' E	Fl.W. period 2s				
25904 <i>D 5838</i>	-Jetty, head.	33° 01.2' S 17° 57.2' E	Q.W.	16 5	3		F.R. on mast 750 meters W.
25908 <i>D 5840</i>	-Slipway jetty, head.	33° 01.2' S 17° 57.0' E	Q.R.	20 6	3		
25916 <i>D 5847</i>	-Ore jetty Range, front.	33° 02.4' S 17° 58.4' E	F.W.		12	Pole.	Occasional.
25920 <i>D 5847.1</i>	--Rear, about 1060 meters 056° from front, jetty, head.	33° 02.1' S 17° 59.0' E	F.W.	46 14	12	Framework tower, green strip; 36.	Horn: 1 bl. ev. 20s.
			F.G.	43 13	12		
25925 <i>D 5843</i>	-Multipurpose quay, head.	33° 00.1' S 17° 59.6' E	Fl.(2)G. period 6s	16 5	3		
25932 <i>D 5841.1</i>	-Ore Concentrates, pier, NW. corner.	33° 00.7' S 17° 59.4' E	F.G.				
25936 <i>D 5833</i>	-Elandspunt.	33° 04.1' S 17° 58.5' E	Fl.W. period 5s	112 34	9	Metal framework tower.	
25940 <i>D 5832</i>	-Entrance Range, front.	33° 02.8' S 18° 02.6' E	Q.W.	89 27	9	Lattice tower; 39.	Also shown by day.
25944 <i>D 5832.1</i>	--Rear, 800 meters 080° from front.	33° 02.8' S 18° 03.2' E	Iso.W. period 6s	151 46	12	Lattice tower; 116.	Also shown by day.
25945 <i>D 5848</i>	-Club Mykonos, W. breakwater, head.	33° 02.9' S 18° 02.4' E	Fl.R. period 2s	23 7	6	White concrete structure; 10.	
25945.5 <i>D 5849</i>	--E. breakwater, head.	33° 02.8' S 18° 02.4' E	Fl.G. period 2s	20 6	6	White concrete structure; 10.	
25948 <i>D 5831</i>	-S. head.	33° 06.3' S 17° 57.3' E	Fl.(4)W. period 30s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 14.5s	115 35	24	Yellow and white round concrete tower, yellow lantern; 75.	Radar reflector.
25956 <i>D 5860</i>	Dassen Island.	33° 25.8' S 18° 05.5' E	Fl.(2)W. period 30s fl. 0.3s, ec. 9.7s fl. 0.3s, ec. 19.7s	154 47	26	White round metal tower, red bands, and dwelling; 92.	Radiotelephone. Horn: 1 bl. ev. 15s (bl. 5s, si. 10s). Sounded only when fog approaches within 3 miles of island or on request by radio to Port Captain, Cape Town.
25960 <i>D 5867</i>	Koeberg, N. breakwater.	33° 40.6' S 18° 25.4' E	Fl.Y. period 4s fl. 0.3s, ec. 3.7s	33 10	5	Mast.	Private.
25964 <i>D 5867.1</i>	-S. breakwater.	33° 40.8' S 18° 25.2' E	Fl.Y. period 3s fl. 0.3s, ec. 2.7s	39 12	5	Mast.	Private.
25968 <i>D 5870</i>	Robben Island.	33° 48.9' S 18° 22.5' E	Oc.W.R. period 7s lt. 5s, ec. 2s	154 47	W. 24 R. 12	White round tower, black stripe on E. side; 59.	R. 340°-351°, W.-340°. Horn: (W. extremity of island) 2 bl. ev. 30s. Sounded only when fog approaches within 3 miles, otherwise on request by radio to Port Captain, Cape Town.
MURRAY'S BAY HARBOR:							
25970 <i>D 5884</i>	-Entrance Range, front.	33° 47.8' S 18° 22.6' E	Q.R.		2	Grey pole; 33.	
25970.5 <i>D 5884.1</i>	--Rear, 447 meters 309° from front.	33° 47.6' S 18° 22.3' E	Q.W.		3	Grey pole; 66.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH AFRICA							
25972 <i>D 5880</i>	-Murrays Bay, S. breakwater, head.	33° 47.9' S 18° 22.7' E	Q.(2)R. period 5s fl. 0.3s, ec. 0.7s fl. 0.3s, ec. 3.7s	23 7	5	Red pole; 10.	
25973 <i>D 5880.5</i>	--N. breakwater, head.	33° 47.9' S 18° 22.7' E	Q.(2)G. period 5s fl. 0.3s, ec. 0.7s fl. 0.3s, ec. 3.7s	23 7	5	Green pole; 10.	
25974	Fairway buoy.	33° 51.9' S 18° 25.7' E	Iso.W.			SAFE WATER RW, pillar, topmark.	
	RACON		NW(- • • -)		12		
TABLE BAY:							
25976 <i>D 5910</i>	-Milnerton.	33° 52.9' S 18° 29.3' E	Fl.(3)W. period 20s fl. 0.3s, ec. 3.7s fl. 0.3s, ec. 3.7s fl. 0.3s, ec. 11.7s	89 27	25	White concrete tower; 70.	F.R. light on chimney 4.0 miles SSE. F.R. lights on radio masts 1.2 miles ENE.
			F.R.	79 24	11	Same structure.	Visible 114°-139°.
25980 <i>D 5900</i>	-Green Point.	33° 54.1' S 18° 24.0' E	Fl.W. period 10s	62 19	25	White square tower, red diagonal bands, and red dome; 52.	Visible shore-255°. Horn: 1 bl. ev. 30s.
25984 <i>D 5903</i>	-Granger Bay, Mouille Point, jetty, head.	33° 53.9' S 18° 24.9' E	Q.G.	26 8	5	White pole, green bands.	
25986 <i>D 5905</i>	--S. breakwater, head.	33° 54.0' S 18° 24.9' E	Q.R.	20 6	5	White pole, red bands.	
CAPE TOWN:							
25988 <i>D 5930</i>	-Breakwater, head.	33° 53.9' S 18° 26.1' E	Fl.G. period 2s fl. 0.5s, ec. 1.5s	44 13	5	Metal framework tower.	Horn: Mo.(G) ev. 30s (bl. 5s, si. 2s, bl. 5s, si. 2s, bl. 2s, si. 14s).
-Victoria Basin:							
25992 <i>D 5934</i>	--N. side of entrance.	33° 54.1' S 18° 25.6' E	F.G. (neon)	20 6		Framework tower on concrete column.	
25996 <i>D 5934.2</i>	--S. side of entrance.	33° 54.2' S 18° 25.7' E	F.R. (neon)	20 6	6	Framework tower on concrete column.	
-Ben Shoeman Dock:							
26000 <i>D 5935</i>	--Entrance Range, front.	33° 55.1' S 18° 27.3' E	Fl.R. period 4s fl. 1s, ec. 3s	118 36		Framework tower.	
26004 <i>D 5935.1</i>	--Rear, 285 meters 131°30' from front.	33° 55.2' S 18° 27.5' E	Iso.W. period 4s	154 47		Framework tower.	
26008 <i>D 5936</i>	--Channel Range, front.	33° 55.1' S 18° 27.3' E	F.R.	118 36		Framework tower.	
26012 <i>D 5936.1</i>	--Rear, 315 meters 131°30' from front.	33° 55.2' S 18° 27.5' E	F.W.	154 47		Framework tower.	
-Schoeman Dock:							
26016 <i>D 5937</i>	--N. wall, head.	33° 54.2' S 18° 26.4' E	Fl.R. period 2s				
26020 <i>D 5938</i>	-N. side of entrance.	33° 54.2' S 18° 26.4' E	F.R.			Mast on concrete column.	F.R. neon strip, over F.R. horizontal strip directional along entrance channel.
26024 <i>D 5938.4</i>	-S. side of entrance.	33° 54.4' S 18° 26.3' E	F.G.			Mast on concrete column.	F.G. neon strip, over F.G. horizontal strip directional along entrance channel.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
SOUTH AFRICA							
26028 <i>D 5939</i>	-Ro-Ro Jetty, head.	33° 55.0' S 18° 27.0' E	Q.Y.		30 9	5	
	-Duncan Dock:						
26032 <i>D 5940</i>	--N. mole, spur jetty, head.	33° 54.3' S 18° 26.2' E	Fl.G. (neon) period 2s				
26036 <i>D 5942</i>	--N. Mole, head.	33° 54.4' S 18° 26.2' E	F.G. (neon)		23 7	11	
26040 <i>D 5943</i>	--E. mole, head.	33° 54.5' S 18° 26.0' E	F.R. (neon)		23 7	9	
26044 <i>D 5953</i>	-Lay-Up Basin, W. mole, head.	33° 55.0' S 18° 27.0' E	F.G. (neon)		16 5	5	Concrete column.
26048 <i>D 5954</i>	--E. mole, head.	33° 55.1' S 18° 27.0' E	F.R. (neon)		16 5	5	Concrete column.
26049 <i>D 5929</i>	--Entrance Range, front.	33° 54.9' S 18° 25.9' E	Q.R.		138 42	13	Gray mast.
26049.1 <i>D 5929.1</i>	--Rear, 710 meters 198°30' from front.	33° 55.3' S 18° 25.8' E	Oc.W. period 3s lt. 2.8s, ec. 0.2s		256 78	19	On building.
26050 <i>D 5958</i>	--Landing wharf.	33° 54.8' S 18° 26.5' E	Q.Y.				
26051 <i>D 5960</i>	--Repair pier, head.	33° 54.9' S 18° 26.4' E	F.Y.				
26056 <i>D 6000</i>	Houtbaai, S. breakwater, head.	34° 03.1' S 18° 21.1' E	Fl.W. period 3s		16 5	4	Orange hut. Q.R. lights are shown near summit of Constantiaberg 1.8 miles 097°.
26060 <i>D 6002</i>	-N. breakwater.	34° 03.0' S 18° 21.0' E	Fl.G. period 2s		20 6	2	Orange hut.
26064 <i>D 6110</i>	Siangkoppunt.	34° 09.0' S 18° 19.2' E	Fl.(4)W. period 30s fl. 0.6s, ec. 3.9s fl. 0.6s, ec. 3.9s fl. 0.6s, ec. 3.9s fl. 0.6s, ec. 15.9s		131 40	30	White round tower; 108.

SOUTH ATLANTIC ISLANDS

ASCENSION ISLAND (U.K.):							
-Clarence Bay							
26072 <i>D 4800</i>	--Entrance Range, front.	7° 55.7' S 14° 24.7' W	F.G.		90 27	5	White concrete pillar, two black bands; 15. Shown only when vessels are seen approaching the bay. Q.R., 2 F.R. (vert.) on white radio mast 1.1M S.
26076 <i>D 4800.1</i>	---Rear, 61 meters 140° from front.	7° 55.6' S 14° 24.5' W	F.G.		115 35	5	White concrete pillar, two black bands; 15. Shown when vessels are approaching the bay.
26080 <i>D 4804</i>	--Harbor Range, front.	7° 54.6' S 14° 24.3' W	F.W.		152 46		White mast, red bands; 60. F.R. on radio mast 930 meters NNE.
26084 <i>D 4804.1</i>	---Rear, about 37 meters 050° from front.	7° 54.4' S 12° 24.2' W	F.W.		182 55		White mast, red bands; 90. Radar building marked by W.R. lights 45 meters NE.
26092 <i>D 4812</i>	--Near Zymotic Hopsital.	7° 55.9' S 14° 25.1' W	F.R.		70 21	4	White concrete pillar, red diagonal stripe; 16.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
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SOUTH ATLANTIC ISLANDS

ST. HELENA (U.K.):

-James Bay:

26100 <i>D 4904</i>	--Entrance Range, front.	15° 55.5' S 5° 43.2' W	Fl.G. period 3s	469 143	3	White triangular beacon; 6.	
26104 <i>D 4904.1</i>	---Rear, about 98 meters 172° from front.	15° 55.6' S 5° 43.2' W	Iso.G. period 8s	558 170	3	White triangular beacon; 6.	
26108 <i>D 4906</i>	-Beacon.	15° 55.0' S 5° 43.0' W	Fl.(2)R. period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 8s	82 25	3	Mast, NW. corner of building, white triangle, point up.	Visible 097°-241°.
26112 <i>D 4908</i>	-Buttermilk Point.	15° 54.2' S 5° 42.4' W	Fl.(2)W. period 10s	120 37	10		Visible 053°-233° (180°).

Section 18

Radiobeacons

(1) No.	(2) Name	(3) Position	(4) Characteristic	(5) Range	(6) Sequence	(7) Frequency	(8) Remarks
CROATIA							
760	Rijeka Calibration Radiobeacon	43° 56.0' N 14° 32.0' E				312.6 A1A.	Transmits on request to Rijeka (9AR) Coast Radio Station.
790	Split Calibration Radiobeacon	43° 30.0' N 16° 27.6' E				312.6 A1A.	Transmits on request to Split (9AS) Coast Radio Station.
800	Dubrovnik	42° 40.0' N 18° 02.0' E	KLP (- • - • • • • - - - •).	25		318 A2A.	AERO.
810	Dubrovnik Calibration Radiobeacon	42° 38.0' N 18° 06.0' E				410 A1A.	Transmits on request to Dubrovnik (9AD) Coast Radio Station.
840	Bar Calibration Radiobeacon	42° 04.0' N 19° 10.0' E				410.5 A1A.	Transmits on request to Bar (YUW) on VHF Ch 16.
MALTA							
850	Valletta Calibration Radiobeacon	35° 53.9' N 14° 31.7' E				310 NON.	Transmits on request to Commercial and Sales Manager, Malta Drydocks. 4 hour notice required. Yellow light shown during transmission.
860	Gozo	36° 02.2' N 14° 12.4' E	GZO (- - • - - - • • - - -).	92		320 NON, A2A.	AERO.
GREECE							
880	Kos	36° 47.8' N 27° 05.5' E	KOS (- • - - - - • • •).	50		311.5 A2A.	AERO.
890	Thira	36° 23.9' N 25° 28.8' E	THR (- • • • • • • - •).	80		307 A2A.	AERO.
900	Sounion	37° 40.1' N 24° 02.7' E	SUN (• • • • • • - - •).	50		319 A2A.	AERO.
UKRAINE							
1010	Mys Yevpatoriyskiy Light Station	45° 09.0' N 33° 16.2' E	EYa (• • - - -).	150	I	309.5 A1A.	
1070	Mys Aytodorskiy Light Station	44° 25.6' N 34° 07.5' E	AT (• - -).	150	I	312.5 A1A.	
TURKEY							
1250	Finike	36° 16.7' N 30° 09.2' E	FR (• • • • • • - •).	300		303.4 A2A.	Transmits continuously during periods of low visibility. During periods of clear weather transmits on the hour and half-hour.

(1) No.	(2) Name	(3) Position	(4) Characteristic	(5) Range	(6) Sequence	(7) Frequency	(8) Remarks
SYRIA - ISRAEL							
1270	Banias, Syria	35° 13.7' N 35° 57.6' E	BAN (- • • • • • - • - •).	130		304 A2A.	Aeromarine.
EGYPT							
1300	Port Said Light Station	31° 16.3' N 32° 17.2' E	PS (• - - • • • •).	50		310.5	
1310	Damietta Mouth East Light Station	31° 31.4' N 31° 50.8' E	DA (- • • • • -).	150		310.5	
1320	Burullus Light Station	31° 35.9' N 31° 04.7' E	BR (- • • • • • - •).	50		310.5	
1330	Rosetta	31° 26.5' N 30° 25.8' E	RO (• - • - - -).	50		303.5	
1350	Ras el Shaqiq Light Station	30° 57.2' N 28° 49.7' E	HQ (• • • • • - - - -).	50		303.5	
LIBYA							
1360	Es Sider	30° 37.6' N 18° 21.1' E	OJ (- - - • - - -).	80		300 NON, A2A.	AERO.
1370	Tarabulus	32° 54.0' N 13° 12.4' E	TRI (- • • • • •).	20		288 A2A.	
TUNISIA							
1380	El Attaia	34° 44.3' N 11° 17.8' E	KR (- • - • • •).	100		298.5 A1A.	
1390	Cap Bon	37° 04.4' N 11° 03.0' E	BN (- • • • • - •).	200		296.5 A1A.	
AZORES							
1540	Flores	39° 27.0' N 31° 10.0' W	FLO (• • • • • • • • - - -).	250		270 NON, A2A.	AERO.
1550	Graciosa	39° 05.8' N 28° 00.9' W	GRA (- - • • • • • -).	100		283 NON, A2A.	AERO.
1560	Lajes	38° 47.0' N 27° 07.0' W	GP (- - • • - - •).	50		341 A2A.	AERO.
1570	Santa Maria	37° 00.0' N 25° 11.0' W	SMA (• • • • - - • -).	300		323 NON, A2A.	AERO.
CAPE VERDE							
1640	Monte Verde, Ilha de Sao Vicente	16° 52.0' N 24° 56.0' W	VE (• • • • - •).	100		308 A2A.	
1650	Sal	16° 42.0' N 22° 57.0' W	SAL (• • • • • - • - • • •).	350		274 A1A.	AERO.

(1) No.	(2) Name	(3) Position	(4) Characteristic	(5) Range	(6) Sequence	(7) Frequency	(8) Remarks
AFRICA - WEST COAST							
1680	Nouakchott, Mauritania	18° 05.0' N 15° 58.0' W	KC (- • - - • • • •).	100		297 A1A.	AERO.
1690	Saint Louis, Senegal	16° 03.0' N 16° 27.3' W	SLO (• • • • • • • • - - -).	45		355 A1A.	AERO.
1700	Dakar, Senegal	14° 42.9' N 17° 28.6' W	SDS (• • • • - • • • • •).	170		323 A1A.	AERO.
1710	Kamsar, Guinea	10° 40.0' N 14° 36.0' W	KAM (- • - - • - -).	150		308 A1A.	AERO.
1720	Koundinde Light Station, Guinea	10° 15.0' N 14° 26.0' W	KD (- • - - • • •).	100		305 A1A.	
1730	Freetown (Aberdeen Hill), Sierra Leone	8° 29.9' N 13° 17.3' W	FF (• • • • • • • • • •).	100		296.5	
1750	Sassandra, Ivory Coast	4° 56.0' N 6° 08.2' W	SS (• • • • • • • •).	100		290 A1A.	AERO.
1760	Port Bouet Light Station, Ivory Coast	5° 14.7' N 3° 57.4' W	PB (• - - - • - • • • •).	100		294.2 A2A.	Aeromarine.
1770	Takoradi, Ghana	4° 54.1' N 1° 45.0' W	TI (- • • •).	90		375 NON, A2A.	AERO.
1780	Cotonou, Benin	6° 22.2' N 2° 24.5' E	CO (- • • • • - - -).	155		284 A1A.	AERO.
1790	Escravos, Nigeria	5° 36.6' N 5° 11.2' E	ES (• • • • •).			305 A1A.	AERO.
1800	Malabo, Bioko, Equatorial Guinea	3° 46.2' N 8° 43.5' E	BL (- • • • • • • • • •).	50		310 A1A.	AERO.
1810	Bata, Equatorial Guinea	1° 51.6' N 9° 46.2' E	BT (- • • • • • -).			325 A1A.	AERO.
1830	Port Gentil, Gabon	0° 41.6' S 8° 45.7' E	PG (• - - - • - - - •).	100		367 A1A.	AERO.
1835	Gamba Oil Terminal, Gabon	2° 48.4' S 10° 04.8' E	GZ (- - • - - - • • •).	100		359 A1A.	AERO.
1840	Pointe Noire, Congo	4° 50.0' S 11° 53.0' E	PNR (• - - - • - • • • • •).	80		323 A1A.	AERO.
1850	Ascension Island	7° 56.7' S 14° 24.8' W	ASN (• - • • • • - •).			360 NON, A2A.	AERO.
ANGOLA							
1860	Cabinda	5° 37.0' S 12° 12.0' E	CA (- • - • • • •).	100		280 NON, A2A.	AERO.
1870	Soyo	6° 08.3' S 12° 22.4' E	SZ (• • • • - - - • • •).	75		310 NON, A1A.	AERO.
1880	N'gunza	11° 10.3' S 13° 51.0' E	NR (- • • • • • •).	50		320 NON, A2A.	AERO.
1890	Mocamedes	15° 11.0' S 12° 11.0' E	MO (- - - - -).	50		358 A2A.	AERO.

Section 19

Differential GPS Stations

(1) No.	(2) Name	(3) Position	(4) Station ID	(5) Range	(6) Frequency	(7) Transfer Rate	(8) Remarks
EGYPT							
1300	Alexandria	31° 09.2' N 29° 50.8' E	T 320 R 440 R 441	150	284		
1310	Port Said	31° 16.4' N 32° 17.5' E	T 321 R 442 R 443	126	290		
1320	Mersa Matrouh	31° 21.5' N 27° 14.8' E	T 324 R 448 R 449	150	307		

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Zelenika	14116
Zembretta Isle	21988
Zeytun Burnu	17272
Zigljen	12646
Zincirbozan Banki	17052
Zona de El Musel	2152
Zona Franca	4012
Zonguldak Burun	19608
ZONGULDAK LIMANI	19608
Zourafa Islet	16860
Zucovac	14136
Zumaya	1808
Zuwarah	21716
Zverinacki Kanal	12870

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A
 Ascension Island 1850

B
 Baniyas 1270
 Bar 840
 Bata 1810
 Burullus 1320

C
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 Cotonou 1780

D
 Dakar 1700
 Damietta 1310
 Dubrovnik 800

E
 El Attaia 1380
 Es Sider 1360
 Escravos 1790

F
 Finike 1250

Flores 1540
 Freetown 1730

G
 Gozo 860
 Graciosa 1550

K
 Kamsar 1710
 Kos 880
 Koundinde 1720

L
 Lajes 1560

M
 Malabo 1800
 Mocamedes 1890
 Monte Verde 1640
 Mys Aytodorskiy 1070
 Mys Yevpatoriyskiy 1010

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 Nouakchott 1680

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 Rijeka 760
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S
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 Sounion 900
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 Tarabulus 1370
 Thira 890

V
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CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
A1842		16	D0887		328	D0986		596	D1098		884
A1843		18	D0887.1		332	D0990		600	D1100		888
A1844		4	D0890		308	D0990.1		604	D1102		892
A1846		20	D0892		344	D0994		608	D1104		944
A1848		24	D0893		336	D0996		612	D1104.2		962
A1850		38	D0894		348	D0996.1		616	D1104.4		960
A1852		28	D0896		364	D0996.3		598	D1105		920
A1854		48	D0896.05		366	D0996.6		582	D1105.5		916
A1856		52	D0896.1		368	D0997		618	D1106		948
A1862		56	D0898		380	D0998		624	D1106.1		952
A1870		40	D0899		372	D0999		620	D1114		956
A1871		44	D0899.2		384	D1002.4		628	D1116		964
A1872		92	D0900		376	D1003		629	D1118		968
A1873.9		76	D0901		377	D1012		632	D1122		972
A1874		84	D0902		388	D1014		636	D1124		976
A1874.1		104	D0904		392	D1015		676	D1126		980
A1875		108	D0904.5		393	D1015.1		680	D1127		982
A1876		80	D0906		400	D1015.5		686	D1128		984
A1880		88	D0909		408	D1016		672	D1128.7		985
A1884		112	D0910		412	D1017		684	D1128.8		985.1
A1886		116	D0913.9		424	D1018		688	D1129		986
D0790		152	D0914		428	D1022		692	D1130		988
D0790.1		160	D0914.1		420	D1026		736	D1130.4		992
D0792		154	D0915		416	D1026.2		732	D1131		996
D0794		156	D0918		436	D1026.4		740	D1137		1008
D0796		178	D0922		444	D1027		744	D1138		1015
D0798		176	D0922.2		456	D1030		644	D1139		1016
D0799		180	D0922.4		452	D1032		640	D1140		1024
D0799.1		180.1	D0922.6		448	D1036		668	D1142		1028
D0801		182	D0923.2		442	D1040		664	D1150		912
D0801.1		182.1	D0923.4		432	D1042		660	D1152		924
D0802		192	D0925		460	D1044		648	D1153		1092
D0803		196	D0925.4		464	D1045		652	D1154		1088
D0804		188	D0928		472	D1046		656	D1154.5		1031
D0806		184	D0930		476	D1050		752	D1155		1048
D0814.5		200	D0932		492	D1050.1		756	D1155.2		1044
D0814.51		200.1	D0933		488	D1051		760	D1155.4		1052
D0816		144	D0934		484	D1052		764	D1156		1032
D0817		148	D0935		486	D1054		768	D1156.6		1056
D0818		140	D0936		468	D1054.5		769	D1156.7		1036
D0820		136	D0940		496	D1056		776	D1156.72		1040
D0826		212	D0942		498	D1060		784	D1156.8		1060
D0829		208	D0944		500	D1062		780	D1157		1064
D0830		220	D0945		504	D1062.5		794	D1160		1068
D0831		224	D0946		508	D1063		788	D1161		1072
D0831.2		228	D0950		512	D1064		792	D1162		1080
D0832		232	D0952		516	D1066		800	D1164		1084
D0834		236	D0954		520	D1072		808	D1165		1102
D0836		240	D0954.1		524	D1074		812	D1165.1		1102.1
D0852		248	D0960		528	D1075.8		848	D1166		1096
D0856		252	D0961		526	D1075.81		852	D1167		1100
D0860		256	D0962		532	D1076		844	D1168		1104
D0862		268	D0964		536	D1078		856	D1170		1112
D0866		276	D0966		540	D1080		820	D1172		1120
D0870		272	D0968		544	D1082		720	D1174		1116
D0872		284	D0970		548	D1084		724	D1176		1128
D0874		300	D0971		565	D1086		728	D1178		1132
D0875		292	D0971.1		565.1	D1088		860	D1180		1136
D0877		296	D0974		556	D1090		868	D1183		1140
D0877.1		288	D0975		560	D1090.1		872	D1183.1		1140.1
D0884		304	D0978		576	D1091		862	D1184		1144
D0885		320	D0978.1		580	D1093		876	D1186		1148
D0885.1		324	D0982		592	D1093.1		880	D1188		1152
D0886		312	D0984		588	D1094		864	D1189		1124
D0886.1		316	D0985		584	D1096		896	D1189.6		1168

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
D1190		1160	D1274.4		1423	D1414		1680	D1525.05		1912.5
D1190.1		1164	D1274.6		1422.5	D1416		1684	D1525.1		1913
D1191		1176	D1276		1424	D1418		1688	D1525.15		1913.2
D1193		1172	D1277		1428	D1420		1692	D1526.2		1914
D1196		1180	D1278		1432	D1422		1696	D1526.4		1908
D1198		1184	D1278.1		1436	D1424		1700	D1526.6		1910
D1200		1212	D1284		1444	D1424.1		1704	D1526.64		1910.2
D1204		1216	D1285		1448	D1425		1708	D1526.65		1910.5
D1204.1		1220	D1285.1		1452	D1452		1712	D1527		1920
D1207		1196	D1286		1456	D1453		1724	D1527.2		1924
D1207.1		1200	D1286.4		1460	D1454		1717	D1527.22		1928
D1210		1204	D1286.6		1464	D1454.3		1716	D1527.4		1932
D1210.1		1208	D1287		1468	D1454.6		1720	D1527.42		1936
D1211		1222	D1287.5		1440	D1456		1728	D1528		1938
D1211.1		1222.1	D1288.4		1472	D1456.2		1730	D1528.2		1938.1
D1214		1240	D1290		1476	D1456.4		1731	D1529		1940
D1215		1244	D1293.9		1488	D1457		1732	D1530		1939
D1216		1260	D1294		1492	D1457.5		1734	D1531		1944
D1218		1268	D1294.1		1496	D1458		1736	D1532		1948
D1220		1272	D1300		1480	D1459		1740	D1532.2		1949
D1223		1280	D1304		1536	D1459.1		1744	D1532.25		1951
D1223.1		1284	D1307		1544	D1460		1748	D1532.4		1956
D1224		1286	D1308		1540	D1462		1752	D1532.6		1952
D1226		1292	D1310		1500	D1466		1764	D1536		1964
D1228		1296	D1310.1		1504	D1468		1756	D1537		1972
D1230		1300	D1312		1508	D1470		1760	D1537.2		1976
D1232		1304	D1312.1		1512	D1472		1768	D1540		1980
D1232.1		1308	D1313		1505	D1474		1772	D1542		1984
D1234		1312	D1313.2		1506	D1475		1776	D1546		1992
D1238		1324	D1314		1516	D1475.5		1777	D1546.1		1996
D1240		1316	D1316		1520	D1476.8		1778	D1547		2000
D1242		1256	D1326		1524	D1476.85		1778.5	D1548		2004
D1243		1352	D1327		1532	D1482		1792	D1548.2		2008
D1244		1328	D1327.2		1533	D1483		1788	D1549		2012
D1244.4		1336	D1372		1556	D1484		1796	D1552		2016
D1244.6		1332	D1378		1560	D1484.1		1800	D1554		2020
D1244.7		1340	D1380		1576	D1488.2		1802	D1556		2024
D1244.8		1348	D1382		1580	D1489		1804	D1556.5		2026
D1245		1344	D1384		1584	D1493		1808	D1556.51		2026.1
D1246		1344.5	D1386		1588	D1494		1812	D1557		2028
D1247		1345	D1386.5		1592	D1494.2		1816	D1557.3		2041
D1247.1		1345.1	D1387		1596	D1495		1820	D1558		2036
D1247.5		1351	D1387.2		1600	D1498		1832	D1558.2		2032
D1248		1351.5	D1387.21		1604	D1499		1836	D1559.4		2048
D1248.5		1351.7	D1387.3		1608	D1502		1840	D1559.42		2050
D1250		1380	D1387.4		1612	D1504		1844	D1559.45		2052
D1251		1364	D1387.5		1616	D1505		1856	D1559.83		2053
D1251.1		1368	D1388		1620	D1506		1848	D1559.84		2055
D1253		1360	D1388.1		1624	D1508		1852	D1559.87		2057
D1254		1381	D1390		1624.5	D1510		1860	D1561		2060
D1254.2		1382	D1390.5		1625	D1510.4		1864	D1562		2064
D1256		1384	D1391		1633	D1512		1868	D1563		2068
D1256.3		1385	D1392		1634	D1513		1872	D1563.1		2072
D1257		1400	D1394		1628	D1513.2		1876	D1566		2076
D1257.1		1404	D1394.1		1632	D1513.4		1888	D1566.1		2080
D1258		1388	D1394.2		1635	D1514		1880	D1568		2084
D1258.5		1396	D1394.3		1635.5	D1520		1892	D1568.1		2088
D1259		1390	D1395		1636	D1521		1896	D1570		2092
D1259.1		1391	D1396		1648	D1523		1898	D1574		2096
D1259.4		1392	D1400		1656	D1524		1900	D1576		2100
D1264		1408	D1410		1660	D1524.2		1904	D1577		2104
D1264.1		1412	D1412.4		1672	D1524.4		1910.6	D1578		2108
D1270		1420	D1412.41		1676	D1524.45		1910.7	D1580		2112
D1272		1416	D1413		1664	D1524.6		1911	D1582		2116
D1274		1422	D1413.1		1668	D1525		1912	D1586		2120

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
D1587	.....	2124	D1678.21	.....	2384	D1723	.....	2588	D1856	.....	2852
D1589	.....	2128	D1678.3	.....	2388	D1724	.....	2600	D1858	.....	2854
D1591	.....	2130	D1678.31	.....	2392	D1724.1	.....	2604	D1860	.....	2856
D1592	.....	2132	D1678.4	.....	2396	D1725	.....	2606	D1862	.....	2860
D1596	.....	2204	D1678.6	.....	2400	D1726	.....	2608	D1864	.....	2864
D1597	.....	2196	D1678.8	.....	2410	D1728	.....	2612	D1865.6	.....	2866
D1597.4	.....	2200	D1679	.....	2412	D1729	.....	2613	D1866	.....	2868
D1598	.....	2152	D1680	.....	2416	D1730	.....	2616	D1867	.....	2872
D1598.1	.....	2151	D1681	.....	2420	D1732	.....	2628	D1868.4	.....	2876
D1598.3	.....	2160	D1684	.....	2432	D1733	.....	2620	D1870	.....	2880
D1598.4	.....	2156	D1685	.....	2440	D1734	.....	2624	D1871	.....	2884
D1598.42	.....	2150	D1685.11	.....	2441	D1736	.....	2632	D1872	.....	2888
D1598.45	.....	2149	D1685.12	.....	2442	D1736.3	.....	2644	D1873	.....	2896
D1598.5	.....	2187	D1685.2	.....	2436	D1736.4	.....	2648	D1873.4	.....	2900
D1598.7	.....	2184	D1686	.....	2444	D1737	.....	2656	D1874	.....	2904
D1598.8	.....	2186	D1686.1	.....	2446	D1738	.....	2636	D1876	.....	2908
D1599	.....	2192	D1686.2	.....	2447	D1739	.....	2640	D1876.1	.....	2912
D1602	.....	2168	D1686.3	.....	2450	D1740	.....	2660	D1882	.....	2916
D1603	.....	2172	D1686.5	.....	2448	D1742	.....	2664	D1884	.....	2920
D1603.2	.....	2173	D1687	.....	2452	D1744	.....	2666	D1886	.....	2924
D1606.5	.....	2166	D1687.6	.....	2454	D1756	.....	2680	D1888	.....	2928
D1608	.....	2136	D1688	.....	2456	D1758	.....	2676	D1889	.....	2932
D1609	.....	2140	D1690	.....	2458	D1760	.....	2668	D1890	.....	2940
D1610	.....	2148	D1692	.....	2460	D1762	.....	2672	D1890.1	.....	2944
D1614	.....	2208	D1694	.....	2464	D1775	.....	2682	D1891	.....	2936
D1616	.....	2212	D1695	.....	2468	D1782	.....	2684	D1892	.....	2960
D1618	.....	2220	D1696	.....	2476	D1784	.....	2688	D1893	.....	2948
D1622	.....	2228	D1696.1	.....	2480	D1786	.....	2692	D1893.1	.....	2949
D1622.1	.....	2232	D1697	.....	2484	D1788	.....	2696	D1894	.....	2956
D1624	.....	2224	D1698	.....	2508	D1790	.....	2712	D1894.5	.....	2962
D1628	.....	2236	D1698.4	.....	2504	D1791	.....	2710	D1895	.....	2964
D1630	.....	2240	D1698.5	.....	2510	D1791.2	.....	2711	D1895.4	.....	2968
D1630.4	.....	2238	D1698.7	.....	2513	D1792	.....	2700	D1895.5	.....	2970
D1631	.....	2244	D1698.84	.....	2512	D1794	.....	2716	D1895.55	.....	2957
D1631.28	.....	2246	D1698.9	.....	2516	D1795	.....	2720	D1895.6	.....	3016
D1634.2	.....	2248	D1698.92	.....	2520	D1796	.....	2724	D1895.7	.....	2978
D1636	.....	2264	D1698.94	.....	2524	D1798	.....	2732	D1895.8	.....	2976
D1638	.....	2268	D1698.96	.....	2528	D1799	.....	2736	D1895.9	.....	2980
D1638.4	.....	2272	D1698.98	.....	2532	D1799.5	.....	2738	D1895.94	.....	2971
D1640	.....	2276	D1699	.....	2488	D1800	.....	2740	D1895.97	.....	2971.2
D1641	.....	2280	D1699.1	.....	2502	D1806	.....	2820	D1895.98	.....	2971.3
D1642	.....	2284	D1699.2	.....	2492	D1808	.....	2812	D1896	.....	2972
D1646	.....	2288	D1699.5	.....	2533	D1810	.....	2824	D1897	.....	3004
D1647	.....	2292	D1699.6	.....	2533.5	D1812	.....	2828	D1898	.....	2988
D1649	.....	2296	D1699.7	.....	2534	D1814	.....	2808	D1900	.....	2992
D1649.1	.....	2300	D1700	.....	2540	D1815	.....	2807	D1900.2	.....	2996
D1650	.....	2304	D1702	.....	2544	D1816	.....	2748	D1901	.....	3000
D1652	.....	2308	D1702.6	.....	2538	D1818	.....	2756	D1901.2	.....	3002
D1653	.....	2312	D1702.9	.....	2535	D1820	.....	2764	D1901.3	.....	3010
D1657	.....	2316	D1703	.....	2537	D1822	.....	2760	D1901.5	.....	3012
D1657.5	.....	2320	D1704	.....	2548	D1824	.....	2752	D1901.6	.....	3020
D1657.6	.....	2324	D1706	.....	2552	D1826	.....	2768	D1902	.....	3024
D1658	.....	2328	D1708	.....	2556	D1827	.....	2772	D1902.6	.....	3029
D1659	.....	2332	D1710	.....	2560	D1828	.....	2776	D1904.6	.....	3014
D1659.2	.....	2336	D1710.1	.....	2564	D1830	.....	2780	D1907	.....	2938
D1660	.....	2340	D1714	.....	2568	D1830.4	.....	2781	D1911	.....	3040
D1661	.....	2341	D1716	.....	2572	D1831	.....	2784	D1911.1	.....	3044
D1662	.....	2348	D1716.2	.....	2575	D1834	.....	2804	D1912	.....	3032
D1662.1	.....	2352	D1716.4	.....	2573	D1838	.....	2796	D1914	.....	3048
D1664	.....	2356	D1716.6	.....	2574	D1842	.....	2788	D1916	.....	3052
D1664.1	.....	2360	D1717	.....	2576	D1846	.....	2832	D1920.5	.....	3066
D1673	.....	2368	D1718	.....	2592	D1847	.....	2836	D1921	.....	3068
D1676	.....	2376	D1720	.....	2596	D1848	.....	2840	D1924	.....	3072
D1678	.....	2404	D1722	.....	2580	D1850	.....	2844	D2002	.....	3076
D1678.2	.....	2380	D1722.2	.....	2584	D1855	.....	2848	D2003	.....	3080

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
D2003.1		3084	D2110		3380	D2150.26		3540	D2320		3844
D2006		3090	D2114		3389	D2150.28		3544	D2321		3861
D2008		3096	D2118		3388	D2150.4		3560	D2324.05		3845
D2012		3100	D2119		3390	D2151		3564	D2328.2		3846
D2012.1		3104	D2119.1		3390.5	D2151.1		3568	D2328.3		3846.1
D2012.8		3099	D2121		3392	D2152		3548	D2330		3849
D2015		3120	D2122		3396	D2152.1		3552	D2345		3863
D2015.1		3124	D2123		3398	D2157.3		3569.5	D2348.5		3864
D2016		3128	D2124		3400	D2157.4		3569	D2348.51		3868
D2016.2		3132	D2126		3404	D2158		3570	D2349		3872
D2016.21		3136	D2126.2		3402	D2160		3572	D2349.1		3876
D2020.4		3160	D2126.25		3401	D2160.16		3583	D2350.4		3882
D2020.6		3164	D2126.5		3406	D2160.36		3582	D2351		3880
D2023		3196	D2126.55		3406.2	D2160.4		3584	D2352		3884
D2023.1		3200	D2127		3408	D2160.5		3587	D2355		3900
D2023.7		3204	D2127.15		3410, 3414	D2160.6		3588	D2355.2		3908
D2024		3188	D2127.18		3439	D2161		3592	D2355.4		3912
D2024.1		3192	D2127.181		3439.2	D2161.1		3596	D2355.5		3914
D2027		3208	D2127.182		3439.4	D2162		3600	D2357		3928
D2027.1		3212	D2127.183		3439.6	D2164		3604	D2358		3932
D2028.4		3216	D2127.2		3438	D2165		3608	D2359		3920
D2028.5		3220	D2127.25		3438.5	D2165.1		3612	D2359.1		3924
D2029		3224	D2127.3		3413	D2168		3616	D2362		3940
D2029.1		3228	D2127.31		3413.3	D2170		3620	D2367		3960
D2031		3232	D2127.4		3416	D2171		3622	D2367.2		3958
D2032		3236	D2127.6		3420	D2172.3		3623	D2368		3968
D2034		3240	D2128		3432	D2174		3624	D2371.3		3977
D2036		3244	D2128.5		3436	D2175		3628	D2372		3984
D2037		3249	D2129		3424	D2176		3632	D2372.1		3984.2
D2038		3248	D2129.2		3428	D2178		3644	D2372.15		3984.4
D2045		3253	D2130		3440	D2179		3648	D2373		3980
D2045.5		3254	D2130.2		3444	D2179.2		3652	D2373.4		3988
D2047		3255	D2130.4		3448	D2181		3656	D2374		3992
D2047.1		3255.5	D2130.6		3452	D2181.1		3660	D2375		3996
D2052		3264	D2132		3453	D2192		3684	D2375.3		3998
D2052.1		3268	D2132.2		3453.5	D2194		3688	D2375.35		3999
D2052.5		3269	D2132.4		3454	D2196		3692	D2375.36		4000
D2056		3272	D2132.6		3454.5	D2197		3700	D2375.37		4001
D2056.2		3281	D2133.4		3462	D2197.2		3716	D2375.4		3972
D2056.21		3282	D2134.2		3464	D2197.3		3708	D2375.5		4002
D2057		3271	D2134.21		3468	D2197.4		3712	D2376		4008
D2058		3280	D2134.3		3480	D2206		3724	D2377		4012
D2059.59		3270	D2134.35		3481	D2206.1		3736	D2377.1		4016
D2060		3284	D2134.46		3463	D2208		3728	D2377.4		4020
D2066		3296	D2135.8		3488	D2209		3732	D2378		4024
D2068		3300	D2136		3492	D2211		3748	D2380		3950
D2069		3304	D2136.1		3496	D2212		3752	D2380.1		3950.1
D2069.1		3308	D2136.25		3504	D2218		3760	D2381		4032
D2072		3312	D2136.5		3505	D2219		3761	D2381.2		4036
D2074		3316	D2139		3508	D2221		3740	D2382		4037
D2076		3320	D2140		3512	D2221.1		3744	D2382.3		4038
D2078		3324	D2142		3520	D2222		3756	D2383		4048
D2078.1		3328	D2142.1		3524	D2225.3		3764	D2383.4		4050
D2084		3332	D2144		3516	D2230.1		3772	D2385		4052
D2086		3336	D2144.2		3518	D2232.8		3778	D2385.2		4049
D2088		3340	D2145		3526	D2234		3780	D2385.6		4056
D2092		3344	D2145.1		3526.1	D2234.1		3784	D2385.7		4041
D2092.1		3348	D2145.2		3526.2	D2235		3796	D2388		4060
D2094		3356	D2145.3		3526.3	D2235.2		3797	D2398		4064
D2096		3352	D2145.31		3526.4	D2246		3816	D2398.1		4068
D2098		3360	D2146		3527	D2249		3800	D2404		4072
D2100		3364	D2146.1		3527.1	D2305		3820	D2404.1		4076
D2102		3368	D2146.2		3527.2	D2312		3828	D2405		4077
D2106		3372	D2150		3556	D2315		3862	D2405.4		4078
D2108		3376	D2150.22		3532	D2319		3836	D2406		4080

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
D2408		4084	D2490.5		22858	D2570.2		23112	D2635.3		23670
D2409		4088	D2492		22862	D2572		23116	D2636		23668
D2410		4092	D2492.5		22863	D2572.2		23120	D2638		23704
D2411.5		4110	D2493		22864	D2574		23132	D2640		23636
D2412		4112	D2496		22868	D2576		23136	D2641		23630
D2414		4116	D2498		22872	D2582		23140	D2642		23628
D2415		4118	D2500		22880	D2584		23148	D2642.5		23626
D2416		4124	D2502		22888	D2586		23152	D2645		23612
D2418		4120	D2503		22892	D2587		23156	D2645.45		23609
D2420		4128	D2504		22884	D2587.5		23150	D2645.5		23606
D2423.2		4132	D2506		22885	D2588		23144	D2646		23608
D2423.5		4140.5	D2507		22886	D2590		23160	D2647		23584
D2423.55		4141	D2510		22896	D2590.5		23162	D2648		23594
D2424.7		4140	D2512		22900	D2591		23164	D2648.5		23593
D2424.8		4139	D2514		22904	D2591.2		23168	D2648.7		23595.1
D2424.9		4139.5	D2514.1		22908	D2591.4		23172	D2648.72		23595.2
D2424.95		4138	D2522		22916	D2592		23176	D2649.5		23599
D2425		4136	D2524		22920	D2595		23180	D2649.7		23601
D2425.3		4142	D2524.1		22924	D2595.4		23184	D2652		23598
D2425.35		4154	D2526		22928	D2596		23196	D2654		23580
D2425.4		4143	D2526.1		22932	D2596.2		23200	D2654.2		23604
D2425.66		4145	D2528		22934	D2596.6		23204	D2655		23568
D2425.7		4149	D2532		22912	D2598		23204	D2655.4		23572
D2425.72		4147	D2537		22938	D2599		23188	D2655.6		23576
D2425.74		4151	D2540		22940	D2599.1		23192	D2656		23648
D2430		4166	D2540.1		22944	D2600		23208	D2657		23652
D2430.01		4166.51	D2541		22992	D2600.2		23212	D2659		23640
D2430.013		4166.5	D2542		22948	D2601		23214	D2659.4		23644
D2430.015		4166.52	D2543		22952	D2602		23216	D2660		23512
D2430.2		4167	D2543.2		22956	D2602.1		23220	D2661		23516
D2431		4167.2	D2544		22960	D2602.2		23224	D2662		23524
D2431.2		4167.3	D2544.1		22964	D2602.4		23228	D2662.5		23525
D2431.6		4172	D2544.5		22968	D2604		23232	D2663.5		23528
D2432		4168	D2544.6		22972	D2608		23236	D2664		23532
D2434.2		4184	D2545		22976	D2611		23244	D2665		23536
D2434.4		4180	D2545.1		22980	D2612		23248	D2666		23540
D2436.6		4204	D2545.3		22984	D2613		23253	D2666.1		23558
D2436.7		4208	D2545.4		22988	D2613.2		23254	D2666.2		23544
D2436.75		4214.5	D2546		22996	D2614		23255	D2666.21		23548
D2436.78		4214.7	D2546.1		23000	D2615		23255.5	D2666.5		23556
D2436.8		4216	D2546.3		23008	D2616		23256	D2666.7		23560
D2436.81		4214	D2546.4		23012	D2616.2		23257	D2667		23564
D2437.05		4215	D2546.6		23004	D2616.4		23258	D2668		23504
D2437.055		4215.1	D2547		23016	D2616.6		23260	D2669		23508
D2437.075		4215.2	D2547.1		23020	D2617		23264	D2670		23484
D2437.08		4215.3	D2547.4		23024	D2619		23270	D2672.3		23489
D2438		4220	D2547.5		23028	D2621		24264	D2672.35		23489.1
D2442		4224	D2548.4		23032	D2622		24268	D2672.5		23490
D2445		4228	D2554		23036	D2623		24276	D2672.7		23491
D2446		4232	D2557		23048	D2623.2		24280	D2674		23488
D2448		4236	D2558.4		23054	D2626		24288	D2676		23500
D2449.2		4240	D2559		23056	D2628		24292	D2677		23496
D2449.3		4241.4	D2559.1		23060	D2628.2		24296	D2680		23480
D2449.4		4241.5	D2560		23064	D2630		24300	D2680.2		23472
D2449.5		4241.6	D2561		23076	D2631		24304	D2681		23476
D2449.6		4241.7	D2561.1		23080	D2632		23664	D2681.2		23477
D2450.7		4244	D2562		23072	D2632.1		23666	D2681.5		23468
D2451.5		4242	D2563		23068	D2632.2		23702	D2681.8		23466
D2456		4256	D2566		23096	D2632.3		23696	D2682.2		23456
D2482		22840	D2567		23100	D2632.4		23700	D2682.3		23457
D2484		22848	D2568		23124	D2633		23692	D2682.4		23460
D2486		22844	D2568.1		23128	D2633.7		23684	D2682.5		23464
D2487		22852	D2569		23108	D2633.71		23688	D2683		23448
D2488		22856	D2569.2		23114	D2634		23680	D2683.5		23482
D2490		22860	D2570		23104	D2635		23669	D2684		23372

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
D2684.1		23376	D2756		23756	D2815.45		24020	D2872		24200
D2687.2		23360	D2757		23766	D2815.6		24022.2	D2874		24202
D2687.5		23364	D2757.2		23765	D2815.7		24022	D2875		24203
D2687.51		23368	D2757.3		23767.5	D2815.8		24022.6	D2875.5		24201
D2688		23408	D2762		23768	D2815.82		24022.4	D2876		24204
D2688.2		23410	D2763		23767	D2815.94		24023.7	D2881.5		24209
D2689		23428	D2768		23776	D2815.96		24023	D2882		24210
D2689.4		23432	D2769		23772	D2815.98		24023.5	D2883.5		24211
D2689.41		23436	D2772		24076	D2816		23928	D2883.6		24218
D2690		23404	D2773.6		24055	D2818		23854	D2883.7		24212
D2690.02		23420	D2773.8		24054	D2820		23852	D2883.8		24213
D2690.03		23424	D2775		24056	D2821		23856	D2884		24217
D2690.1		23440	D2777		24053	D2822		23868	D2885		24216
D2690.11		23444	D2778		24053.2	D2822.4		23872	D2888		24214
D2690.15		23400	D2778.2		24053.4	D2822.45		23873	D2890		24215
D2690.6		23392	D2778.4		24053.6	D2822.46		23874	D2898		24256
D2690.7		23396	D2778.6		24053.8	D2822.6		23860	D2900		24252
D2690.9		23385	D2780		24052	D2822.7		23864	D2901		24244
D2691		23380	D2781		24050	D2822.8		23859	D2904		24260
D2691.4		23377	D2781.5		24049	D2826		23876	D2908		24236
D2691.41		23377.1	D2782		24048	D2826.2		23880	D2910		24240
D2692		23344	D2786		24044	D2826.4		23884	D2914		24196
D2693		23318	D2790		24024	D2826.5		23886	D2916		24197
D2694		23320	D2791		24026	D2826.7		23916	D2918		24192
D2696		23324	D2792		24040	D2826.72		23912	D2919		24193
D2697		23328	D2793		24042	D2826.74		23913	D2919.5		24198
D2697.1		23332	D2793.5		24034	D2826.78		23909	D2919.75		24147
D2697.5		23342	D2794		24036	D2826.82		23917	D2920		24156
D2698		23336	D2794.2		24037	D2826.86		23908	D2920.1		24160
D2698.1		23340	D2795		24032	D2826.87		23911	D2921		24148
D2699		23348	D2796		24033.5	D2826.9		23910	D2921.1		24152
D2700		23346	D2796.1		24033	D2826.91		23910.5	D2922		24164
D2702		23304	D2796.5		24027	D2827		23904	D2922.5		24168
D2702.4		23308	D2798		23932	D2827.2		23900	D2923		24176
D2702.41		23312	D2799		23936	D2827.9		23918	D2923.1		24180
D2703		23296	D2799.2		23934	D2827.94		23920	D2923.2		24184
D2703.1		23300	D2799.4		23938	D2827.98		23924	D2923.3		24188
D2704		23288	D2799.5		23939	D2829		23828	D2925		24172
D2705		23289	D2799.6		23940	D2830		23832	D2930		24144
D2706		23292	D2799.66		23942	D2831		23836	D2933.1		24135
D2708		23316	D2799.67		23942.1	D2831.5		23892	D2933.2		24134
D2712		23280	D2799.7		23960	D2831.6		23888	D2934		24132
D2714		23284	D2800.2		23964	D2831.8		23838	D2936		24136
D2720		23748	D2800.42		23948	D2832		23840	D2939.5		24130
D2722		23752	D2801		23968	D2833		23842	D2942		24100
D2724.5		23727.1	D2801.2		23956	D2834		23844	D2943		24104
D2726		23740	D2802		23944	D2835		23848	D2943.4		24116
D2728		23732	D2803.2		23945	D2836		23808	D2943.41		24120
D2730		23736	D2803.3		23953	D2837		23810	D2943.6		24124
D2738		23728	D2803.35		23954	D2838		23804	D2943.61		24128
D2741		23727.7	D2804		23976	D2842		23812	D2944		24108
D2741.1		23727.8	D2806		23980	D2844.75		23816	D2946		24096
D2741.3		23727.9	D2807		23984	D2845		23825	D2950		24080
D2741.5		23727.6	D2807.35		23989.5	D2845.5		23826	D2952		24088
D2742		23727.5	D2807.36		23989	D2846		23780	D2954		24092
D2742.2		23727	D2807.37		23988	D2847.2		23797.2	D2956		24084
D2742.6		23727.2	D2807.5		23990	D2847.5		23797.3	D2972		24308
D2743		23726	D2809		23996	D2848.4		23794	D2973		24316
D2744		23724	D2809.4		24000	D2848.45		23784	D2973.5		24314
D2746		23720	D2812		24008	D2848.5		23796	D2974.2		24312
D2750		23716	D2814		24012	D2849		23797	D2975		24320
D2752		23712	D2815		24014	D2849.51		23798	D2975.2		24324
D2754		23708	D2815.2		24014.2	D2850		23800	D2975.3		24328
D2755		23744	D2815.22		24014.4	D2851		23801	D2975.6		24332
D2755.5		23746	D2815.4		24016	D2852		23802	D2976		24336

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
D2977		24340	D3102		24692	D3174.2		24936	D4237		25192
D2977.5		24344	D3105		24696	D3176		24948	D4238		25201
D2978		24348	D3106		24704	D3178		24952	D4239		25202
D2978.4		24352	D3107		24700	D3179		24956	D4241		25204
D2978.5		24356	D3108		24708	D3180		24960	D4242		25205
D2979		24360	D3108.1		24712	D3181		24964	D4243		25183
D2980		24364	D3110.5		24716	D3870		24968	D4248		25208
D2982		24368	D3111		24720	D3873		24976	D4249		25210
D2984		24372	D3112		24724	D3878		24992	D4260		25304
D2986		24373	D3112.4		24740	D3881		24996	D4266		25308
D2986.5		24374	D3112.6		24744	D3884		25004	D4272		25312
D2996		24380	D3112.9		24728	D3885		25008	D4276		25316
D2998		24384	D3113		24730	D3885.5		25012	D4284		25348
D3002		24388	D3113.1		24732	D3886		25016	D4284.2		25344
D3004		24392	D3113.3		24734	D3886.3		25018	D4286		25356
D3008		24396	D3113.31		24736	D3888		25032	D4287.5		25364
D3008.2		24400	D3113.8		24748	D3900		25036	D4290		25372
D3010		24404	D3114		24752	D3904		25044	D4290.1		25373
D3012		24408	D3115		24758	D3906		25048	D4311		25452
D3013		24412	D3115.5		24756	D3930		25056	D4314		25476
D3018		24440	D3116		24760	D3940		25064	D4315		25460
D3019		24444	D3118		24764	D3944		25068	D4315.1		25464
D3021		24452	D3120		24768	D3980		25212	D4319		25484
D3027		24464	D3120.2		24784	D3981		25213	D4326		25492
D3027.5		24465	D3120.4		24776	D3990		25084	D4332		25496
D3030		24468	D3120.41		24780	D4000		25100	D4332.1		25500
D3042		24484	D3122		24788	D4006		25096	D4340		25504
D3044		24492	D3123		24792	D4008		25088	D4342.5		25506
D3050		24500	D3125		24796	D4008.1		25092	D4343		25508
D3052		24504	D3126		24798	D4018		25104	D4343.1		25512
D3053		24506	D3127		24840	D4028		25136	D4370		25516
D3054		24508	D3128		24804	D4032		25120	D4380		25528
D3056		24512	D3129		24812	D4036		25124	D4382		25532
D3057		24520	D3130		24816	D4036.1		25128	D4384		25536
D3058		24524	D3130.1		24820	D4039		25116	D4384.1		25540
D3059		24545	D3131		24824	D4040		25112	D4390		25524
D3060		24540	D3131.1		24828	D4043		25140	D4800		26072
D3060.1		24544	D3134		24832	D4046		25144	D4800.1		26076
D3062		24532	D3135		24836	D4051		25146	D4804		26080
D3064		24552	D3137.5		24843	D4056		25156	D4804.1		26084
D3065		24556	D3138		24844	D4060		25164	D4812		26092
D3070		24564	D3140		24848	D4064		25160	D4904		26100
D3071		24565	D3145		24852	D4134		25236	D4904.1		26104
D3072		24568	D3146		24856	D4134.1		25240	D4906		26108
D3074		24576	D3148		24860	D4149		25175	D4908		26112
D3078		24580	D3151		24864	D4154		25172	D5003		25556
D3080		24596	D3155		24872	D4154.2		25177	D5006		25560
D3081		24588	D3155.1		24868	D4155		25176	D5040		25564
D3084		24600	D3155.4		24876	D4158		25180	D5060		25568
D3086		24604	D3156		24880	D4158.5		25174	D5080		25572
D3086.1		24608	D3162		24884	D4159		25174.5	D5100		25576
D3087		24612	D3166		24892	D4160		25182	D5101		25584
D3088		24616	D3167		24896	D4170		25248	D5104		25596
D3090		24620	D3167.2		24904	D4174		25256	D5150		25600
D3093		24636	D3167.4		24908	D4175		25252	D5180		25604
D3094		24640	D3167.45		24910	D4175.5		25260	D5200		25608
D3096		24648	D3167.46		24910.5	D4176		25264	D5224		25624
D3098		24656	D3167.5		24915	D4177		25272	D5226		25612
D3098.5		24664	D3167.52		24916	D4180		25268	D5228		25616
D3099		24668	D3167.6		24920	D4190		25276	D5228.2		25620
D3100.2		24672	D3167.8		24921	D4200		25300	D5240		25628
D3101		24676	D3168		24924	D4210		25288	D5250		25632
D3101.1		24680	D3171		24928	D4230		25184	D5270		25636
D3101.4		24684	D3173		24944	D4234		25196	D5280		25640
D3101.6		24688	D3174		24932	D4234.1		25200	D5288		25644

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
D5300		25652	D5847		25916	E0032.2		4300	E0101.6		4473.5
D5300.1		25656	D5847.1		25920	E0056		4304	E0102		4476
D5304		25660	D5848		25945	E0057.6		4312	E0103		4484
D5304.2		25662	D5849		25945.5	E0057.8		4316	E0106		4492
D5312		25648	D5860		25956	E0058		4320	E0107		4494
D5324		25664	D5867		25960	E0058.5		4339	E0107.2		4494.4
D5328		25668	D5867.1		25964	E0059		4340	E0107.3		4494.2
D5336		25672	D5870		25968	E0059.4		4330	E0107.7		4495
D5346		25676	D5880		25972	E0060.3		4334	E0108		4496
D5356		25680	D5880.5		25973	E0060.4		4328	E0109		4500
D5370		25684	D5884		25970	E0060.5		4324	E0109.2		4504
D5400		25688	D5884.1		25970.5	E0060.6		4332	E0109.3		4508
D5404		25692	D5900		25980	E0060.7		4336	E0109.4		4506
D5404.1		25696	D5903		25984	E0060.8		4346	E0109.5		4509
D5414		25708	D5905		25986	E0061		4348	E0109.6		4510
D5418		25700	D5910		25976	E0062		4360	E0109.7		4511
D5420		25704	D5929		26049	E0064		4364	E0110		4512
D5430		25712	D5929.1		26049.1	E0064.5		4366	E0111		4516
D5436		25716	D5930		25988	E0065		4366.5	E0112		4520
D5442		25720	D5934		25992	E0065.3		4367	E0113		4522
D5460		25724	D5934.2		25996	E0065.5		4367.1	E0114		4524
D5464		25728	D5935		26000	E0065.7		4367.2	E0116		4528
D5510		25752	D5935.1		26004	E0066		4368	E0117.5		4532
D5520		25756	D5936		26008	E0067		4376	E0120		4536
D5522		25768	D5936.1		26012	E0067.5		4372	E0120.6		4540
D5522.1		25772	D5937		26016	E0068		4380	E0120.7		4541
D5524		25776	D5938		26020	E0069		4370	E0124		4548
D5524.1		25780	D5938.4		26024	E0069.2		4371	E0125		4552
D5528		25784	D5939		26028	E0069.4		4371.5	E0125.3		4556
D5531		25785	D5940		26032	E0070		4384	E0125.6		4560
D5600		25788	D5942		26036	E0070.2		4384.5	E0126		4564
D5606		25808	D5943		26040	E0071		4390	E0126.02		4564.2
D5607		25792	D5953		26044	E0071.2		4390.2	E0126.025		4564.1
D5607.1		25796	D5954		26048	E0072		4392	E0126.1		4566
D5608		25812	D5958		26050	E0073.2		4396	E0126.15		4567
D5660		25824	D5960		26051	E0073.6		4404	E0126.2		4568
D5660.1		25828	D6000		26056	E0073.7		4402	E0126.4		4569
D5704		25832	D6002		26060	E0074		4408	E0126.5		4576.5
D5705		25836	D6110		26064	E0074.8		4411	E0126.64		4576.8
D5720		25838	D8100		1891	E0075		4409	E0126.65		4576.75
D5734		25840	D8542.2		24842	E0075.2		4410	E0126.7		4577
D5770		25844	D8580.6		25038	E0077		4411.5	E0126.75		4577.5
D5772		25852	D8581.7		25049	E0079		4416	E0126.8		4577.4
D5773		25848	D8584.4		25058	E0079.2		4412	E0126.81		4570
D5774		25860	D8588.2		25070	E0080		4420	E0128		4588
D5790		25864	D8588.6		25226	E0082		4422	E0130		4592
D5791		25868	D8605		25388	E0086		22780	E0130.3		4590
D5792		25872	D8605.2		25420	E0088		4424	E0130.5		4593
D5792.2		25874	D8605.3		25424	E0088.4		4428	E0131		4594
D5794		25876	D8605.4		25440	E0089.5		4430	E0131.2		4594.2
D5798		25880	D8610		25444	E0090		4440	E0131.3		4594.4
D5801		25884	D8625		25502	E0091		4432	E0132		4595
D5803		25888	D8629		25544	E0091.6		4437	E0132.2		4595.5
D5810		25892	D8633		25552	E0092		4444	E0132.4		4595.75
D5830		25896	E0008		4264	E0092.4		4448	E0134		4596
D5831		25948	E0012		4266	E0093		4452	E0136.8		4600
D5832		25940	E0018		4268	E0094		4460	E0137		4604
D5832.1		25944	E0018.3		4272	E0095		4456	E0137.3		4608
D5833		25936	E0018.41		4276	E0095.5		4462	E0138		4616
D5834		25900	E0020		4280	E0096		4464	E0139		4628
D5836		25902	E0022		4282	E0098		4472	E0140		4624
D5838		25904	E0022.2		4284	E0099		4468	E0141		4632
D5840		25908	E0024		4288	E0100.4		4469	E0141.5		4636
D5841.1		25932	E0031		4292	E0101		4474	E0146		4640
D5843		25925	E0032		4296	E0101.4		4473	E0146.2		4644

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
E0146.4		4645	E0201.4		5384	E0252		4752	E0309.4		5140
E0146.6		4646	E0201.5		5376	E0253		4756	E0310		5144
E0147		4648	E0202		5388	E0253.5		4774	E0310.4		5148
E0147.5		4650	E0203.4		5400	E0254		4772	E0311		5152
E0148		4652	E0204		5404	E0256		4768	E0311.2		5154
E0149		4656	E0204.2		5408	E0258		4776	E0311.4		5156
E0152		4664	E0205		5412	E0260		4780	E0311.8		5160
E0154		4668	E0208.6		5422	E0262		4844	E0311.9		5162
E0155		4672	E0208.65		5423	E0262.5		4811	E0312.2		5164
E0157		4676	E0209		5364	E0263		4809	E0312.3		5168
E0158		4680	E0209.6		5424	E0264		4808	E0312.6		5172
E0158.6		4682.5	E0209.7		5424.5	E0264.4		4815	E0313		5176
E0159		4692	E0210		5425	E0264.5		4817	E0314		4872
E0159.3		4696	E0210.75		5427	E0264.6		4818	E0314.2		4885
E0160		4700	E0210.8		5425.5	E0265		4820	E0314.4		4876
E0161		4684	E0210.9		5429	E0265.6		4821	E0314.6		4880
E0162		4688	E0211		5425.6	E0265.9		4822	E0315		4884
E0166		4704	E0212.1		5425.7	E0266		4824	E0315.4		4887
E0168		4708	E0212.2		5433	E0266.1		4823	E0315.8		4888
E0168.5		4713	E0212.6		5448	E0266.2		4828	E0316		4892
E0172		4716	E0214		5432	E0266.3		4823.1	E0316.3		4895
E0172.5		4720	E0214.6		5440	E0267		4840	E0316.35		4895.1
E0173.6		4724	E0214.7		5442	E0267.2		4842	E0316.4		4896
E0174		4728	E0216		5452	E0267.8		4799	E0316.5		4896.5
E0174.2		4732	E0217		5449	E0268		4800	E0316.55		4895.2
E0174.4		4732.5	E0217.2		5449.5	E0270		4804	E0316.6		4895.5
E0174.6		4732.75	E0217.4		5450	E0273		4796	E0316.7		4900
E0174.9		4734	E0217.5		5450.5	E0273.3		4796.4	E0316.72		4901
E0174.92		4733	E0218		5454	E0274		4784	E0316.74		4902
E0174.93		4733.5	E0219		5456	E0276		4788	E0316.8		4912
E0175.2		4740	E0220		5460	E0278		4848	E0316.82		4916
E0175.4		4736	E0221		5464	E0282		5032	E0316.83		4920
E0176		5300	E0222		5504	E0284		5036	E0316.84		4924
E0179		5304	E0222.2		5508	E0286		5030	E0317		4904
E0179.4		5308	E0222.4		5512	E0288		5044	E0317.2		4908
E0180		5312	E0224		5476	E0289		5040	E0318		4936
E0184		5324	E0226		5480	E0290		5048	E0318.3		4940
E0185		5332	E0226.1		5482	E0290.1		5052	E0318.6		4944
E0186		5316	E0226.2		5488	E0291		5056	E0318.7		4942
E0186.1		5320	E0226.4		5492	E0293		5060	E0318.71		4941
E0187		5328	E0226.5		5483	E0293.2		5064	E0318.8		4932
E0187.5		5329	E0229.2		5496	E0296		5068	E0318.9		4934.5
E0188		5333	E0229.3		5484	E0298		5072	E0319		4934
E0188.5		5334	E0229.4		5486	E0299		5084	E0319.5		4935
E0190		5338	E0229.7		5514	E0299.5		5077	E0322		4976
E0190.2		5338.5	E0230		5516	E0300.2		5080	E0322.2		4980
E0194		5340	E0231		5519	E0301		5076	E0326		4951.5
E0196		5348	E0231.6		5518	E0303		5090	E0326.2		4951
E0197		5352	E0232		5520	E0303.2		5091	E0328		4950
E0197.2		5356	E0234		5528	E0303.7		5086	E0328.08		4946
E0198		5360	E0234.4		5524	E0304		5100	E0328.3		4948
E0199		5362	E0238		5532	E0306		5096	E0328.31		4949
E0199.2		5362.2	E0239		5536	E0306.5		5097	E0328.32		4996
E0199.81		5366.1	E0239.4		5540	E0306.6		5099	E0328.34		4968
E0199.82		5366	E0244		5544	E0307		5098	E0328.36		4972
E0199.9		5365	E0244.5		5546	E0307.1		5104	E0328.38		4960
E0200		5368	E0246		5552	E0307.16		5105	E0328.39		4964
E0200.1		5370	E0246.5		5550	E0307.17		5107	E0328.42		4952
E0200.2		5366.2	E0246.6		5551	E0307.19		5107.5	E0328.7		5000
E0200.3		5369	E0248		5548	E0307.2		5108	E0328.75		5004.1
E0200.4		5372	E0248.5		5549	E0308		5116	E0328.8		5002
E0200.5		5368.5	E0249		4760	E0308.2		5120	E0329		5006
E0201.11		5421.6	E0249.1		4764	E0308.6		5132	E0329.6		5004
E0201.15		5374	E0250		4744	E0308.7		5128	E0330		5008
E0201.2		5380	E0251		4748	E0309		5136	E0332		5012

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
E0332.5		5012.5	E0382.4		5614.5	E0401.58		5762	E0488		5992
E0333		5013	E0382.5		5615	E0401.59		5763.5	E0489		5996
E0333.2		5014	E0382.6		5615.5	E0401.7		5763	E0490		6000
E0334		5016	E0383		5620	E0402		5768	E0490.4		6004
E0336		5020	E0384		5616	E0404		5777	E0492		6008
E0336.6		5024	E0385		5624	E0404.5		5777.5	E0492.2		6009
E0336.8		5022	E0385.5		5628	E0405		5774	E0493		6012
E0337		5028	E0386		5632	E0407.6		5780	E0495		6016
E0338		4852	E0386.1		5634	E0407.62		5784	E0496		6020
E0338.3		4856	E0386.15		5635	E0410.2		5785	E0497		6048
E0338.6		4860	E0386.2		5636	E0424		5792	E0497.1		6052
E0339		4864	E0386.6		5640	E0434.4		5795	E0498		6024
E0340		4868	E0386.7		5641	E0434.45		5796	E0498.5		6028
E0342		5184	E0386.71		5641.5	E0434.591		5786	E0504		6044
E0344		5188	E0386.72		5641.2	E0434.592		5788	E0506		6032
E0345		5192	E0386.8		5643	E0434.71		5800	E0508		6036
E0345.4		5196	E0387		5644	E0434.72		5802	E0509		6040
E0345.6		5200	E0387.2		5648	E0434.73		5804	E0512		6056
E0345.8		5208	E0387.4		5646	E0435		5868	E0512.5		6060
E0345.9		5204	E0388		5652	E0437		5864	E0512.6		6064
E0346.2		5216	E0388.12		5682	E0439		5874	E0513		6068
E0346.4		5212	E0388.2		5662	E0439.2		5874.5	E0514		6080
E0348		5220	E0388.35		5684	E0439.3		5870	E0514.5		6072
E0350		5224	E0388.4		5660	E0439.35		5872	E0515		6076
E0350.5		5226	E0389		5670	E0439.5		5875	E0515.2		6077
E0351		5228	E0392		5676	E0439.8		5875.4	E0516		6078
E0351.1		5232	E0392.1		5678	E0440		5876	E0516.1		6078.5
E0352		5236	E0392.12		5679	E0446		5880	E0517		6084
E0354		5240	E0392.3		5689	E0446.5		5884	E0517.6		6092
E0355		5238	E0392.33		5690	E0448		5888	E0517.7		6096
E0356		5252	E0392.37		5690.5	E0452		5891	E0517.8		6097
E0358		5256	E0392.4		5691	E0452.08		5893	E0517.9		6098
E0359		5260	E0392.6		5668	E0452.1		5894	E0518		6088
E0360		5264	E0393		5664	E0452.2		5892	E0522		6100
E0361		5268	E0393.2		5665	E0452.7		5895	E0522.1		6100.1
E0361.2		5270	E0393.4		5650	E0453		5896	E0524		6104
E0361.4		5272	E0393.6		5691.3	E0456		5900	E0525		6106
E0361.6		5276	E0393.7		5691.5	E0459		5912	E0525.2		6106.5
E0362		5284	E0393.8		5691.6	E0460		5920	E0526		6107
E0362.4		5280	E0393.85		5691.7	E0462		5916	E0526.2		6120
E0363.67		5277	E0394		5692	E0464		5924	E0527.2		6113
E0364		5288	E0394.2		5696	E0466.4		5927	E0527.5		6114
E0364.2		5292	E0394.4		5700	E0466.6		5926	E0527.52		6115
E0364.4		5296	E0394.6		5704	E0466.7		5928	E0527.65		6123
E0366		5180	E0394.8		5705	E0466.75		5929	E0527.7		6122
E0367		5182	E0395		5706	E0466.8		5930	E0527.8		6122.5
E0370		5568	E0396		5708	E0467		5932	E0528		6112
E0370.3		5556	E0396.12		5718	E0468		5936	E0529		6108
E0370.35		5560	E0396.14		5720	E0470		5940	E0534		6128
E0370.6		5564	E0396.2		5712	E0471.2		5942	E0535		6124
E0371		5565	E0396.3		5716	E0472		5944	E0535.4		6132
E0371.2		5572	E0396.5		5732	E0474		5948	E0536		6140
E0373		5576	E0396.52		5728	E0474.4		5952	E0536.2		6144
E0374		5580	E0396.6		5736	E0475.4		5956	E0538		6136
E0374.2		5584	E0396.62		5740	E0475.5		5960	E0539		6152
E0374.4		5588	E0396.64		5744	E0475.52		5960.5	E0540		6148
E0375		5592	E0396.8		5745	E0475.53		5961	E0542		6154
E0376		5599	E0396.85		5746	E0475.54		5961.5	E0544		6164
E0377		5598	E0396.9		5747	E0475.6		5964	E0545		6162
E0380		5600	E0397		5748	E0475.7		5968	E0546		6180
E0380.5		5608	E0398		5752	E0476		5972	E0547		6196
E0380.55		5604	E0399		5753	E0479		5976	E0547.5		6200
E0381		5610	E0400		5760	E0480		5980	E0547.7		6204
E0381.5		5612	E0401		5767	E0484		5984	E0547.77		6214
E0382.3		5614	E0401.55		5761	E0486		5988	E0548		6212

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
E0550		6192	E0610		6504	E0681		6674	E0749		6900
E0551		6188	E0610.2		6508	E0682		6676	E0750		6904
E0552		6184	E0610.3		6509	E0682.5		6678	E0751		6908
E0555		6232	E0610.4		6510	E0683		6684	E0752		6912
E0556		6224	E0610.5		6512	E0684		6680	E0753		6916
E0557		6228	E0610.6		6516	E0685		6692	E0754		6920
E0557.2		6216	E0610.65		6517.1	E0686		6700	E0754.2		6924
E0557.4		6214.2	E0610.68		6517.2	E0687		6696	E0754.6		6928
E0557.6		6214.1	E0610.7		6518.1	E0690		6704	E0754.7		6932
E0558		6221	E0610.8		6518.2	E0693		6716	E0754.8		6936
E0558.2		6222	E0610.9		6519	E0693.3		6712	E0755.6		6940
E0560		6236	E0611		6520	E0694		6708	E0756		6944
E0561		6240	E0615		6524	E0695		6720	E0757		6948
E0561.5		6241	E0615.4		6526	E0697		6724	E0759		6952
E0562		6244	E0616.5		6523	E0698		6736	E0760		6954
E0566		6248	E0616.8		6522	E0698.2		6732	E0761		6953
E0576		6268	E0616.9		6529	E0698.4		6740	E0762		6955
E0577		6264	E0617		6528	E0699		6742	E0764		6956
E0577.4		6269	E0619		6530	E0700		6744	E0765		6964
E0577.5		6270	E0620		6540	E0701		6748	E0765.3		6972
E0578		6272	E0622		6544	E0702		6752	E0765.4		6960
E0578.2		6280	E0623.5		6548.5	E0702.4		6756	E0766		6968
E0579		6260	E0624		6548	E0704		6764	E0769		6974
E0580		6276	E0624.7		6549	E0704.5		6766	E0769.5		6975
E0582		6284	E0624.8		6550	E0706		6768	E0770		6976
E0582.2		6288	E0624.9		6551	E0708		6772	E0771		6984
E0583		6292	E0625.3		6552	E0709		6776	E0772		6988
E0583.2		6296	E0625.6		6556	E0709.4		6780	E0774		6992
E0583.4		6300	E0628		6560	E0709.6		6784	E0778		7000
E0584		6316	E0630		6564	E0709.65		6776.5	E0779		7004
E0584.2		6304	E0630.01		6569.1	E0709.75		6778	E0784		7008
E0584.4		6308	E0630.02		6569.2	E0710		6760	E0784.2		7012
E0586		6320	E0630.04		6570.1	E0712		6792	E0784.6		7014
E0590		6330	E0630.06		6570.2	E0713		6788	E0786		7016
E0590.2		6331	E0630.2		6571	E0714		6796	E0786.2		7018
E0592		6348	E0631		6568	E0716		6820	E0788		7024
E0594		6344	E0634		6572	E0717		6832	E0788.4		7028
E0600		6356	E0635		6580	E0717.8		6822	E0790		7020
E0600.5		6393	E0635.4		6584	E0719		6828	E0791		7032
E0601.05		6394	E0636		6592	E0719.5		6824	E0791.4		7036
E0602		6408	E0637		6588	E0720		6836	E0791.7		7038
E0603		6404	E0637.2		6600	E0721		6837	E0792		7040
E0603.7		6401	E0637.6		6596	E0726		6852	E0792.01		7041
E0603.71		6402	E0642		6604	E0727		6856	E0792.4		7039
E0604		6396	E0643		6608	E0729		6844	E0792.5		7039.5
E0604.1		6400	E0644		6616	E0730		6848	E0792.6		7039.6
E0604.5		6454	E0646		6612	E0732		6849	E0793		7052
E0605		6450	E0654		6620	E0734		6860	E0793.4		7048
E0605.2		6452	E0655		6633	E0739		6864	E0794		7056
E0605.4		6453	E0655.5		6634	E0739.1		6868	E0795		7060
E0606.2		6464	E0656		6624	E0740		6872	E0795.5		7064
E0606.8		6456	E0657		6632	E0740.2		6876	E0796		7068
E0606.9		6460	E0660		6628	E0740.4		6880	E0796.8		7070
E0606.95		6465	E0662		6636	E0741		6884	E0797		7072
E0606.98		6466	E0664		6640	E0741.2		6835.5	E0797.8		7074
E0607		6468	E0666		6644	E0741.6		6835	E0798		7076
E0607.2		6472	E0667		6648	E0741.7		6835.1	E0798.4		7080
E0608		6480	E0668		6652	E0741.8		6834	E0798.6		7082
E0609		6488	E0674		6656	E0742		6840	E0799		7084
E0609.1		6492	E0676		6660	E0744		6888	E0799.4		7088
E0609.4		6496	E0677		6668	E0744.2		6889	E0800		7096
E0609.41		6500	E0678		6664	E0744.3		6890	E0801		7092
E0609.5		6484	E0678.5		6662	E0746		6892	E0803		7100
E0609.6		6485	E0679		6672	E0748		6896	E0804		7104
E0609.8		6486	E0680		6688	E0748.5		6898	E0805		7108

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
E0806		7112	E0875		7960	E0984		8840	E1042		8560
E0808		7116	E0876		7944	E0988		8832	E1042.1		8544
E0809		7106	E0878		7964	E0990		8833	E1043		8548
E0810		7120	E0882		7976	E0990.2		8834	E1044		8556
E0810.4		7122	E0886		7968	E0990.4		8835.5	E1048		8552
E0811		7124	E0888		7980	E0990.6		8835	E1049		8550
E0812.2		7128	E0889		7986	E0991		8752	E1052.7		8541
E0814		7132	E0890		7984	E0992		8748	E1053		8536
E0818		7136	E0894		7988	E0993		8753	E1053.2		8540
E0818.6		7160	E0896		7992	E0994		8740	E1054		8532
E0818.7		7164	E0898		7996	E0995		8742	E1056		8501
E0819		7140	E0899		8000	E0995.4		8737	E1056.2		8500
E0819.6		7144	E0899.2		8001	E0995.42		8738	E1057		8502
E0821		7168	E0900		8004	E0996		8744	E1057.4		8503
E0822		7184	E0902		8036	E0997		8816	E1058		8524
E0823		7188	E0905		8034	E0997.1		8820	E1059		8520
E0824		7192	E0906		8032	E0998		8736	E1059.2		8516
E0824.2		7196	E0908		8008	E0998.6		8736.5	E1063		8512
E0825		7200	E0910		8012	E1000		8732	E1064		8508
E0826		7204	E0911		8016	E1002		8724	E1065		8528
E0828		7216	E0912		8021	E1003		8728	E1065.61		8503.25
E0830		7208	E0913		8020	E1004		8720	E1065.615		8503.45
E0831		7210	E0914		8024	E1005		8696	E1065.62		8503.2
E0832		7212	E0915		8028	E1005.4		8692	E1065.625		8503.4
E0833		7220	E0916		8040	E1006		8700	E1065.63		8503.65
E0835		7226	E0918		8044	E1006.1		8704	E1065.64		8503.6
E0836		7224	E0919		8048	E1007		8708	E1065.66		8503.9
E0836.2		7228	E0920		8052	E1007.3		8712	E1065.67		8503.85
E0838		7232	E0922		8056	E1008		8716	E1065.68		8503.8
E0838.4		7256	E0923		8060	E1008.4		8684	E1066		8488
E0838.42		7260	E0924		8064	E1008.5		8686	E1066.2		8492
E0838.44		7264	E0926		8068	E1008.7		8688	E1066.24		8476
E0839		7244	E0928		8072	E1009		8672	E1066.26		8480
E0839.2		7248	E0930		8076	E1009.2		8676	E1066.28		8484
E0840		7240	E0932		8084	E1009.4		8680	E1066.7		8464
E0842		7236	E0933		8092	E1009.5		8671	E1066.71		8468
E0848		7268	E0933.2		8096	E1009.56		8669	E1067		8456
E0849		7272	E0934		8088	E1009.6		8669.5	E1070		8452
E0850		7276	E0935		8080	E1009.62		8670	E1071		8449.1
E0852		8100	E0936		8200	E1009.65		8665	E1071.2		8449
E0853		8098	E0937		8204	E1009.7		8668	E1072		8448
E0854		8104	E0937.1		8204.1	E1009.8		8666	E1073		8445
E0855		8108	E0938		8208	E1010		8664	E1073.1		8446
E0856		8112	E0940		8196	E1012.2		8648	E1074		8436
E0858		8120	E0942		8188	E1012.4		8649	E1080		8440
E0860		8124	E0946		8192	E1013.5		8656	E1084		8444
E0861		8116	E0950		8836	E1013.6		8660	E1086		8428
E0862		8110	E0951		8848	E1013.8		8612	E1090		8432
E0862.6		8110.5	E0952		8824	E1014		8616	E1092		8416
E0863		8132	E0955		8766	E1019		8624	E1093		8388
E0864		8136	E0957		8768	E1020		8632	E1093.1		8392
E0865		8137	E0957.1		8772	E1025		8640	E1093.5		8418
E0865.2		8138	E0958		8828	E1028		8600	E1093.6		8419
E0866		8148	E0958.2		8829	E1028.4		8604	E1094		8412
E0866.4		8152	E0960		8760	E1028.6		8608	E1094.1		8414
E0867		8156	E0960.1		8761	E1029		8592	E1095		8400
E0869		8160	E0961		8784	E1029.2		8596	E1096		8396
E0870		8168	E0962		8780	E1030		8588	E1096.5		8419.5
E0870.3		8164	E0962.4		8776	E1031		8580	E1096.6		8419.75
E0870.6		8172	E0963		8788	E1031.2		8584	E1098		8420
E0870.8		8176	E0964		8792	E1032		8564	E1098.4		8424
E0871.5		8180	E0966		8756	E1033		8569	E1099		8364
E0872		7948	E0968		8764	E1034		8568	E1099.2		8363
E0874		7952	E0972		8796	E1036		8572	E1100		8370
E0874.5		7950	E0974		8804	E1037		8576	E1100.04		8371

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
E1100.5		8374	E1170		7364	E1257.9		7684	E1388.4		8984
E1100.8		8376	E1171		7368	E1258		7692	E1390		8988
E1101		8380	E1171.4		7380	E1262		7696	E1392		8852
E1103		8360	E1171.5		7384	E1263		7708	E1394		8856
E1103.2		8362	E1171.6		7388	E1265		7700	E1396		8860
E1103.24		8358	E1171.7		7392	E1265.4		7704	E1400		8864
E1104		8356	E1171.8		7395	E1268		7720	E1401		8872
E1104.2		8353	E1172		7396	E1269		7724	E1403		8876
E1105.2		8344	E1172.8		7400	E1270		7812	E1408		8888
E1106		8324	E1175		7420	E1270.2		7816	E1409		8890
E1107.2		8332	E1175.1		7408	E1274		7820	E1410		8892
E1107.6		8336	E1180		7440	E1278		7808	E1412		8896
E1108		8320	E1181.9		7472	E1280		7804	E1414		8916
E1111		8316	E1182		7476	E1280.2		7800	E1415		8900
E1112		8312	E1182.3		7416	E1281		7796	E1416.5		8904
E1116.4		8308	E1185		7448	E1281.2		7792	E1417		8920
E1116.5		8309	E1185.2		7452	E1282.2		7789	E1417.2		8924
E1117		8286	E1186.1		7460	E1282.4		7790	E1423		8932
E1117.2		8288	E1188		7484	E1283		7788	E1424		8928
E1118		8292	E1193		7490	E1284		7784	E1428		8936
E1119		8296	E1193.5		7492	E1285		7780	E1428.2		8935
E1120		8300	E1196		7500	E1285.2		7772	E1429		8934
E1122		8284	E1197		7496	E1285.4		7776	E1432		8948
E1122.6		8285	E1198		7504	E1288		7768	E1434		8944
E1124		8276	E1199		7508	E1290		7764	E1436		8940
E1126		8280	E1201		7516	E1292		7760	E1438		8952
E1130		8212	E1201.3		7520	E1300		7732	E1439		8956
E1132		8268	E1202		7528	E1302		7736	E1440		8960
E1133		8266	E1202.2		7533	E1304		7740	E1441		8964
E1133.5		8265	E1202.4		7532	E1312		7744	E1444		8884
E1134		8264	E1202.6		7524	E1312.1		7748	E1446		8992
E1134.4		8264.5	E1206		7568	E1318		7756	E1448		8968
E1135		8262	E1208		7544	E1319		7752	E1450		8972
E1136.32		8244	E1208.2		7556	E1323		7728	E1454		8976
E1136.4		8249	E1208.6		7560	E1324		7824	E1455		8996
E1136.41		8249.1	E1208.8		7564	E1326		7828	E1456		9000
E1136.5		8250	E1212		7540	E1328		7832	E1456.3		9014
E1136.51		8250.1	E1215		7608	E1328.5		7833	E1457		9008
E1136.55		8252	E1216		7596	E1329		7836	E1458		9004
E1136.6		8248	E1217		7592	E1330		7840	E1459		9012
E1136.8		8236	E1218		7576	E1330.4		7844	E1460		9016
E1138		8216	E1219		7580	E1331		7848	E1461		9020
E1139		8224	E1220		7584	E1334		7852	E1462		9024
E1140		8220	E1221		7585	E1340		7856	E1462.1		9028
E1141		8232	E1225		7600	E1341		7864	E1466		9032
E1147		7280	E1226		7604	E1342		7860	E1466.2		9036
E1147.4		7284	E1230		7612	E1347		7868	E1466.4		9040
E1147.6		7288	E1233		7620	E1347.6		7870	E1468		9044
E1149		7292	E1236		7624	E1347.8		7872	E1470		9048
E1149.05		7294	E1237		7632	E1348		7876	E1472		9052
E1149.08		7300	E1238		7628	E1348.5		7874	E1474		9056
E1149.2		7296	E1240.7		7646	E1356		7892	E1476		9060
E1150.4		7304	E1244		7636	E1358		7880	E1477.5		9068
E1150.6		7308	E1246		7640	E1359		7882	E1480		9076
E1152		7316	E1248		7644	E1360		7896	E1481		9088
E1156		7320	E1254		7648	E1368		7888	E1482		9084
E1157		7328	E1255		7660	E1370		7884	E1483		9080
E1158		7332	E1255.5		7652	E1374		7924	E1486		9092
E1160		7336	E1256		7657	E1376.2		7912	E1488		9096
E1162		7340	E1256.2		7656	E1380		7920	E1490		9100
E1164		7344	E1257		7664	E1380.2		7928	E1492		9104
E1166		7348	E1257.2		7668	E1380.4		7932	E1496		9108
E1166.2		7352	E1257.4		7672	E1381		7936	E1500		9112
E1168		7356	E1257.7		7676	E1382		7940	E1502		9116
E1169		7360	E1257.8		7680	E1384		8980	E1503		9120

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
E1504		9124	E1614.3		9360	E1730		9604	E1798		.9848
E1504.4		9128	E1615		9362	E1730.2		9612	E1800		.9840
E1505		9137.5	E1615.2		9363	E1730.4		9616	E1802		.9844
E1505.2		9137	E1616		9368	E1733		9620	E1806		.9784
E1506		9136	E1617		9372	E1733.5		9624	E1809		.9788
E1506.2		9138	E1618		9364	E1734		9626	E1810		.9785
E1508		9132	E1619		9376	E1734.3		9627	E1810.1		.9785.1
E1510		9140	E1620		9380	E1735		9632	E1810.2		.9786
E1513		9152	E1622		9384	E1737		9628	E1810.21		.9786.1
E1514		9148	E1623		9388	E1738		9636	E1813		.9766
E1518		9156	E1626		9404	E1739		9640	E1814		.9768
E1518.2		9153	E1626.2		9408	E1739.2		9644	E1816		.9772
E1518.5		9154	E1626.4		9412	E1739.4		9648	E1817		.9776
E1518.7		9154.5	E1626.6		9416	E1739.7		9650	E1818		.9780
E1519		9160	E1628.4		9400	E1739.8		9650.1	E1821		.10434
E1519.4		9164	E1628.5		9417	E1740		9652	E1822		.10436
E1524		9168	E1628.6		9418	E1741		9656	E1823		.10440
E1526		9180	E1628.7		9420	E1742		9660	E1824		.10442
E1526.2		9176	E1629		9424	E1743		9661	E1826		.10432
E1526.3		9172	E1629.4		9428	E1743.2		9662	E1827		.10428
E1538		9192	E1631		9432	E1746		9664	E1828		.10400
E1540.5		9196	E1632		9436	E1747		9668	E1830		.10420
E1541		9200	E1634		9444	E1747.2		9674	E1831		.10424
E1541.2		9208	E1636		9440	E1747.3		9672	E1832		.10404
E1541.3		9204	E1646		9475	E1750		9676	E1832.5		.10408
E1541.35		9209	E1647.5		9465	E1752		9680	E1836		.10396
E1541.6		9212	E1648		9464	E1756		9684	E1838		.10392
E1542		9244	E1650		9476	E1756.5		9688	E1846		.10328
E1550		9248	E1652		9452	E1757		9692	E1846.1		.10332
E1551		9252	E1653		9456	E1758		9696	E1847		.10320
E1552		9256	E1654		9460	E1760		9700	E1848		.10324
E1554		9260	E1658		9480	E1762		9704	E1849		.10336
E1558		9264	E1662		9484	E1763		9704.5	E1849.4		.10337
E1560		9268	E1663		9492	E1763.2		9704.7	E1849.6		.10338
E1562		9272	E1664		9488	E1763.35		9704.6	E1850		.10340
E1564		9276	E1667		9500	E1764		9705	E1852		.10352
E1565		9280	E1669		9508	E1764.1		9705.1	E1852.5		.10354
E1565.1		9284	E1678		9516	E1764.3		9706	E1852.6		.10355
E1566		9288	E1679		9520	E1764.31		9706.7	E1854		.10364
E1568		9294	E1680		9524	E1766		9708	E1855		.10368
E1570		9296	E1681		9528	E1769		9716	E1855.2		.10372
E1570.2		9300	E1683		9539.1	E1770		9720	E1856		.10376
E1572		9308	E1683.5		9539	E1772		9724	E1856.5		.10378
E1573		9304	E1684		9536	E1773		9728	E1857		.10380
E1574		9310	E1685		9532	E1773.6		9732	E1857.4		.10384
E1575.5		9312	E1687		9538	E1776		9736	E1858		.10386
E1576		9220	E1688		9539.5	E1777		9740	E1858.1		.10387
E1577		9216	E1692		9540	E1780		9744	E1858.2		.10388
E1580		9228	E1692.5		9550	E1780.5		9748	E1858.3		.10389
E1582		9240	E1693		9544	E1780.6		9752	E1858.4		.10390
E1583		9236	E1694		9548	E1780.7		9756	E1858.6		.10391
E1584		9232	E1695		9552	E1780.8		9760	E1859		.10316
E1588		9224	E1695.6		9554	E1781		9764	E1860		.10308
E1592		9320	E1696		9556	E1782		10580	E1861		.10306
E1594		9324	E1698		9560	E1784		9847	E1861.5		.10305
E1595		9326	E1700		9564	E1785		9846	E1861.8		.10282
E1598		9328	E1702		9568	E1786		9824	E1862		.10276
E1600		9332	E1706		9572	E1786.3		9825	E1862.4		.10280
E1600.5		9333	E1708		9576	E1786.5		9826	E1862.5		.10284
E1606		9340	E1710		9580	E1788		9828	E1862.51		.10288
E1606.2		9341	E1711		9584	E1790		9832	E1862.59		.10292
E1608		9344	E1716		9588	E1792		9836	E1862.6		.10296
E1610		9348	E1718		9592	E1792.7		9830	E1862.61		.10300
E1612		9352	E1720		9596	E1793		9838	E1862.8		.10304
E1614		9356	E1722		9600	E1796		9852	E1862.9		.10304.5

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Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
E1864		10268	E1968		10036	E2090		10460	E2172.2		10765
E1865		10272	E1970		10044	E2091		10456	E2173		10772
E1865.5		10250	E1978		10052	E2092		10452	E2174		10776
E1866		10248	E1979.2		10060	E2094		10480	E2174.4		10778
E1867		10244	E1982		10040	E2096		10496	E2176		10780
E1868		10252	E1986		9988	E2098		10500	E2177		10784
E1868.1		10256	E1987		9992	E2106		10492	E2177.5		10786
E1870		10260	E1988		9996	E2107		10484	E2178		10788
E1876		10240	E1990		9984	E2108		10584	E2182		10792
E1877.8		10238	E1992		9968	E2109		10588	E2186		10796
E1878		10236	E1993		9980	E2112		10596	E2188		10800
E1879		10232	E1993.5		9972	E2118		10600	E2190		10804
E1880		10230	E1993.54		9952	E2120		10620	E2192		10808
E1882		10224	E1993.6		9976	E2121		10616	E2194		10812
E1884		10228	E1994		9940	E2121.5		10612	E2196		10816
E1885		10216	E1996		9956	E2122		10604	E2198		10822.5
E1885.4		10220	E1997		9960	E2123		10608	E2202		10823.5
E1886		10212	E2000		9964	E2128		10624	E2203		10830
E1888		10208	E2004		9936	E2130		10628	E2203.5		10828
E1889.05		10196	E2005		9924	E2130.5		10630	E2204		10824
E1892		10192	E2008		9908	E2130.6		10631	E2208		10822
E1894		10188	E2010		9914	E2130.61		10631.1	E2210		10836
E1896		10184	E2011		9917	E2131		10632	E2212		10832
E1898		10180	E2012		9917.5	E2131.2		10636	E2214		10844
E1900		10172	E2013		9910	E2132		10640	E2216		10840
E1900.2		10168	E2014		9912	E2133		10642	E2217		10848
E1900.4		10164	E2019		9916	E2134		10644	E2217.5		10852
E1900.6		10160	E2023		9900	E2137		10646	E2222		10856
E1902		10152	E2025		9892	E2138		10648	E2223		10860
E1902.2		10156	E2026		9896	E2142.3		10650	E2223.4		10864
E1904		10128	E2030		9876	E2142.4		10656	E2224		10868
E1905		10144	E2035		9868	E2142.5		10660	E2226		10872
E1906		10136	E2035.2		9870	E2142.6		10664	E2228		10876
E1907		10137	E2036		9860	E2142.8		10722	E2228.5		10880
E1908		10132	E2038		9856	E2142.9		10748	E2230		10884
E1912		10140	E2042		9796	E2142.92		10744	E2230.4		10886
E1912.5		10138	E2044		9800	E2143		10672	E2231		10888
E1916		10120	E2044.2		9808	E2143.2		10676	E2232		10892
E1918		10116	E2044.4		9812	E2144		10677	E2233		10896
E1920		10124	E2045		9816	E2144.4		10708	E2234		10908
E1922		10112	E2045.3		9820	E2144.43		10712	E2236		10900
E1926		10096	E2045.4		9804	E2144.44		10716	E2238		10920
E1926.2		10100	E2046		9792	E2144.45		10720	E2240		10916
E1927		10104	E2050		10504	E2144.47		10718	E2241		10904
E1928		10108	E2051		10508	E2144.48		10719	E2242		10928
E1928.5		10094	E2051.2		10512	E2144.5		10724	E2243		10924
E1930		10092	E2054		10516	E2145		10700	E2244		10932
E1932		10080	E2055.5		10524	E2145.2		10702	E2246		10936
E1932.5		10082	E2057		10526	E2146		10704	E2246.2		10940
E1933		10084	E2058		10528	E2150		10680	E2247		10944
E1938		10076	E2061.5		10544	E2150.1		10684	E2247.3		10948
E1938.3		10078	E2062		10548	E2152		10688	E2248		10952
E1940		10064	E2064		10552	E2152.1		10689	E2250		10960
E1942		10068	E2068		10560	E2153		10696	E2252		10956
E1944		10072	E2070		10564	E2158.4		10694	E2254		10964
E1947.5		10018	E2070.4		10566	E2158.6		10690	E2258		10968
E1948		10016	E2070.6		10565	E2162		10728	E2260		10976
E1949		10024	E2070.7		10568	E2162.2		10732	E2261		10972
E1950		10028	E2076		10572	E2162.4		10736	E2262		10980
E1952		10020	E2080		10472	E2162.6		10740	E2263.5		10992
E1956		10004	E2082		10468	E2164		10752	E2264		10984
E1958		10012	E2084		10476	E2164.1		10756	E2266		10988
E1960		10008	E2086		10464	E2168		10760	E2268		10996
E1962		10000	E2088		10444	E2170		10768	E2274.4		11000
E1966		10032	E2089		10448	E2172		10764	E2274.6		11004

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Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
E2275	11008	E2359	11268	E2488.7	11534	E2598	11760
E2276	.....	11012	E2360	.....	11272	E2488.8	.....	11535	E2601	.....	11756
E2277	.....	11016	E2362	.....	11280	E2489	.....	11544	E2601.4	.....	11772
E2278	.....	11020	E2364	.....	11284	E2490	.....	11540	E2602	.....	11788
E2281	.....	11024	E2366	.....	11288	E2490.8	.....	11545	E2602.2	.....	11784
E2282	.....	11028	E2368	.....	11292	E2491	.....	11546	E2603	.....	11776
E2284	.....	11032	E2372	.....	11296	E2492	.....	11548	E2603.1	.....	11780
E2286	.....	11036	E2374	.....	11300	E2504	.....	11556	E2604	.....	11800
E2288	.....	11040	E2376	.....	11304	E2504.2	.....	11557	E2605	.....	11808
E2288.4	.....	11044	E2381	.....	11308	E2505.1	.....	11558	E2607	.....	11812
E2294	.....	11076	E2382	.....	11312	E2506	.....	11560	E2608	.....	11814
E2296	.....	11064	E2384	.....	11316	E2506.4	.....	11564	E2611.5	.....	11816
E2297	.....	11072	E2388	.....	11317	E2508	.....	11568	E2612	.....	11832
E2298	.....	11068	E2388.2	.....	11318	E2518	.....	11572	E2612.2	.....	11828
E2300	.....	11060	E2390	.....	11320	E2519.5	.....	11574	E2613	.....	11820
E2303	.....	11080	E2393	.....	11336	E2520	.....	11580	E2613.5	.....	11820.5
E2304	.....	11084	E2394	.....	11324	E2520.4	.....	11584	E2618	.....	11836
E2304.2	.....	11088	E2396	.....	11328	E2520.5	.....	11588	E2620	.....	11840
E2305	.....	11092	E2397	.....	11332	E2521	.....	11576	E2622	.....	11844
E2306	.....	11100	E2404	.....	11340	E2524	.....	11592	E2624	.....	11848
E2307	.....	11104	E2405	.....	11344	E2524.3	.....	11604	E2628	.....	11856
E2307.2	.....	11108	E2406	.....	11348	E2524.5	.....	11600	E2630	.....	11852
E2307.5	.....	11112	E2411	.....	11352	E2524.7	.....	11596	E2632	.....	11860
E2307.7	.....	11120	E2412	.....	11360	E2525.7	.....	11608	E2634	.....	11864
E2308	.....	11124	E2413	.....	11356	E2526	.....	11612	E2642	.....	11868
E2312	.....	11128	E2417.8	.....	11380	E2528	.....	11616	E2642.5	.....	11869
E2313	.....	11132	E2418	.....	11376	E2530	.....	11620	E2643	.....	11870
E2314	.....	11140	E2419	.....	11384	E2534	.....	11624	E2644	.....	11872
E2315	.....	11136	E2420	.....	11388	E2536	.....	11628	E2646	.....	11876
E2315.1	.....	11138	E2421	.....	11392	E2537.5	.....	11630	E2648	.....	11880
E2315.6	.....	11142	E2422	.....	11396	E2538	.....	11632	E2649	.....	11884
E2316	.....	11145	E2426	.....	11400	E2540	.....	11634	E2652	.....	11888
E2316.35	.....	11146	E2428	.....	11404	E2543	.....	11635	E2654	.....	11892
E2317	.....	11143	E2430	.....	11408	E2544	.....	11636	E2655	.....	11896
E2317.2	.....	11143.5	E2432	.....	11424	E2545	.....	11640	E2656	.....	11900
E2319	.....	11151	E2433	.....	11420	E2547	.....	11648	E2658	.....	11904
E2320	.....	11152	E2434	.....	11428	E2548	.....	11644	E2660	.....	11905
E2324	.....	11156	E2440	.....	11436	E2550	.....	11652	E2660.2	.....	11906
E2325	.....	11160	E2441	.....	11438	E2551	.....	11656	E2662	.....	11908
E2326	.....	11164	E2443	.....	11448	E2553	.....	11660	E2663	.....	11912
E2326.2	.....	11168	E2443.3	.....	11449	E2554	.....	11664	E2665	.....	11920
E2332	.....	11176	E2444.7	.....	11451	E2555	.....	11668	E2668	.....	11928
E2333	.....	11180	E2450	.....	11452	E2556	.....	11670	E2669	.....	11926
E2334	.....	11184	E2451	.....	11456	E2557	.....	11706	E2670	.....	11924
E2335	.....	11172	E2452	.....	11460	E2558	.....	11676	E2670.2	.....	11925
E2336	.....	11188	E2453	.....	11464	E2560	.....	11680	E2672	.....	11932
E2337	.....	11190	E2456	.....	11468	E2561	.....	11684	E2674	.....	11936
E2337.2	.....	11192	E2458	.....	11476	E2562	.....	11688	E2676	.....	11940
E2337.6	.....	11208	E2462	.....	11480	E2565	.....	11700	E2680	.....	11944
E2338	.....	11200	E2463	.....	11490	E2568	.....	11696	E2682	.....	11956
E2338.2	.....	11204	E2464	.....	11488	E2569	.....	11692	E2684	.....	11948
E2339	.....	11196	E2464.4	.....	11492	E2576	.....	11708	E2686	.....	11952
E2343	.....	11214	E2465	.....	11484	E2578	.....	11712	E2690	.....	11960
E2344	.....	11216	E2466	.....	11500	E2580	.....	11724	E2692	.....	11972
E2346	.....	11224	E2467	.....	11496	E2582	.....	11728	E2694	.....	11980
E2346.5	.....	11225	E2468	.....	11504	E2586	.....	11732	E2696	.....	11976
E2346.7	.....	11226	E2480	.....	11516	E2587	.....	11736	E2700	.....	11988
E2347	.....	11228	E2481	.....	11508	E2588	.....	11716	E2706	.....	11992
E2348	.....	11232	E2484	.....	11520	E2588.2	.....	11717	E2710	.....	11996
E2349	.....	11220	E2485	.....	11532	E2592	.....	11744	E2712	.....	11968
E2350	.....	11236	E2486	.....	11524	E2593	.....	11748	E2718	.....	12000
E2352	.....	11248	E2486.1	.....	11528	E2595	.....	11792	E2720	.....	12004
E2352.5	.....	11252	E2488	.....	11536	E2596	.....	11796	E2721	.....	12008
E2354	.....	11264	E2488.4	.....	11530	E2597	.....	11764	E2721.2	.....	12012
E2358	.....	11276	E2488.5	.....	11531	E2597.2	.....	11768	E2724	.....	12016

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
E2726	.....	12020	E2854	.....	12348	E2946	.....	12646	E3058	.....	.12796
E2727	.....	12032	E2854.2	.....	12344	E2948	.....	12584	E3060	.....	.12804
E2728	.....	12024	E2855	.....	12340	E2950	.....	12704	E3064	.....	.12808
E2734	.....	12036	E2856	.....	12352	E2951	.....	12696	E3065	.....	.12825
E2738	.....	12040	E2857	.....	12356	E2952	.....	12700	E3066	.....	.12812
E2738.2	.....	12052	E2862	.....	12360	E2953	.....	12688	E3068	.....	.12820
E2742	.....	12048	E2863	.....	12532	E2954	.....	12692	E3072	.....	.12816
E2744	.....	12116	E2864	.....	12536	E2960	.....	12708	E3075	.....	.12648
E2748	.....	12056	E2864.1	.....	12540	E2961	.....	12724	E3077	.....	.12656
E2749	.....	12058	E2866	.....	12528	E2962	.....	12712	E3078	.....	.12660
E2750	.....	12060	E2866.5	.....	12526	E2964	.....	12728	E3080	.....	.12664
E2750.3	.....	12154	E2867	.....	12524	E2966	.....	12732	E3081	.....	.12824
E2751	.....	12064	E2868	.....	12516	E2970	.....	12736	E3082	.....	.12668
E2752	.....	12120	E2869	.....	12512	E2971	.....	12744	E3083	.....	.12676
E2754	.....	12124	E2870	.....	12508	E2972	.....	12740	E3084	.....	.12672
E2756	.....	12128	E2870.4	.....	12504	E2972.5	.....	12749	E3086	.....	.12684
E2758	.....	12140	E2871	.....	12194	E2973	.....	12748	E3087	.....	.12680
E2759	.....	12144	E2872	.....	12472	E2973.1	.....	12752	E3087.4	.....	.12720
E2760	.....	12132	E2873	.....	12196	E2973.3	.....	12756	E3088	.....	.12716
E2761	.....	12136	E2874	.....	12496	E2973.4	.....	12760	E3089	.....	.12826
E2762	.....	12148	E2876	.....	12500	E2973.6	.....	12764	E3090	.....	.12828
E2764	.....	12152	E2880	.....	12488	E2974	.....	12768	E3090.5	.....	.12835
E2768	.....	12068	E2882	.....	12492	E2974.3	.....	12767	E3092	.....	.12832
E2769	.....	12072	E2884	.....	12484	E2975	.....	12588	E3093	.....	.12836
E2770	.....	12076	E2886	.....	12468	E2976	.....	12592	E3094.4	.....	.12844
E2772	.....	12080	E2886.4	.....	12464	E2977	.....	12594	E3095	.....	.12856
E2773	.....	12084	E2887	.....	12460	E2978	.....	12596	E3096	.....	.12852
E2774	.....	12088	E2888	.....	12544	E2982	.....	12600	E3097	.....	.12860
E2776	.....	12092	E2890	.....	12364	E2984	.....	12608	E3097.4	.....	.12848
E2780	.....	12096	E2892	.....	12368	E2986	.....	12612	E3098	.....	.12864
E2781	.....	12099	E2894	.....	12376	E2988	.....	12624	E3099	.....	.12868
E2782	.....	12100	E2895	.....	12380	E2992	.....	12620	E3099.5	.....	.12870
E2783	.....	12102	E2896	.....	12384	E2994	.....	12616	E3100	.....	.12876
E2784	.....	12156	E2898	.....	12392	E2995	.....	12604	E3106	.....	.12908
E2788	.....	12164	E2899	.....	12396	E2995.6	.....	12640	E3106.4	.....	.12952
E2792	.....	12160	E2900	.....	12400	E2995.8	.....	12647	E3107	.....	.12912
E2794	.....	12104	E2901	.....	12408	E2997	.....	12644	E3107.2	.....	.12916
E2798	.....	12108	E2902	.....	12404	E2998	.....	12632	E3107.5	.....	.12918
E2798.2	.....	12110	E2903.3	.....	12428	E3002	.....	12332	E3108	.....	.12920
E2799	.....	12112	E2904	.....	12476	E3004	.....	12328	E3110	.....	.12924
E2799.2	.....	12180	E2905	.....	12480	E3006	.....	12324	E3112	.....	.12928
E2799.4	.....	12176	E2906	.....	12388	E3008	.....	12320	E3115	.....	.12932
E2799.6	.....	12184	E2908	.....	12412	E3012	.....	12316	E3116	.....	.12936
E2801	.....	12188	E2910	.....	12416	E3014	.....	12312	E3116.2	.....	.12940
E2802	.....	12172	E2912	.....	12420	E3016	.....	12308	E3116.3	.....	.12938
E2804	.....	12200	E2914	.....	12424	E3019	.....	12304	E3116.4	.....	.12944
E2810	.....	12204	E2916	.....	12432	E3022	.....	12280	E3117	.....	.12948
E2812	.....	12208	E2922	.....	12444	E3023	.....	12284	E3119	.....	.12888
E2816	.....	12212	E2923	.....	12436	E3024	.....	12288	E3120	.....	.12884
E2817	.....	12216	E2926	.....	12448	E3026	.....	12292	E3121	.....	.12922
E2818	.....	12220	E2928	.....	12452	E3028	.....	12296	E3121.3	.....	.12877
E2820	.....	12224	E2929	.....	12456	E3029	.....	12300	E3121.5	.....	.12878
E2822	.....	12228	E2931	.....	12458	E3032	.....	12276	E3121.7	.....	.12879
E2824	.....	12240	E2937	.....	12547	E3034	.....	12268	E3122	.....	.12880
E2828	.....	12244	E2938	.....	12568	E3035	.....	12270	E3124	.....	.12892
E2829	.....	12226	E2940	.....	12548	E3036	.....	12260	E3127	.....	.12897
E2830	.....	12232	E2941	.....	12552	E3038	.....	12264	E3127.4	.....	.12898
E2840	.....	12252	E2942	.....	12556	E3042	.....	12272	E3131	.....	.12902
E2842	.....	12248	E2942.3	.....	12558	E3043	.....	12273	E3132	.....	.12904
E2843	.....	12254	E2942.4	.....	12560	E3044	.....	12772	E3132.3	.....	.12906
E2844	.....	12256	E2942.5	.....	12564	E3046	.....	12780	E3132.5	.....	.12875.5
E2844.5	.....	12256.2	E2943	.....	12576	E3048	.....	12784	E3132.8	.....	.12875
E2844.8	.....	12256.4	E2943.9	.....	12578	E3050	.....	12788	E3133	.....	.12874.5
E2845.1	.....	12342	E2944	.....	12580	E3052	.....	12800	E3133.5	.....	.12874
E2850	.....	12336	E2945	.....	12646.5	E3054	.....	12792	E3134	.....	.12872

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
E3140	.....	12988	E3229.8	.....	13288	E3314	.....	13400	E3412.4	.....	13620
E3142	.....	12992	E3230	.....	13152	E3316	.....	13432	E3412.6	.....	13624
E3144	.....	12996	E3230.5	.....	13148	E3316.5	.....	13433	E3413	.....	13636
E3148	.....	13000	E3231	.....	13144	E3318	.....	13434	E3413.1	.....	13638
E3150	.....	12954	E3232	.....	13164	E3320.1	.....	13467	E3414	.....	13632
E3151	.....	12954.5	E3232.5	.....	13164.4	E3323	.....	13448	E3416	.....	13640
E3152	.....	12956	E3234	.....	13112	E3324	.....	13452	E3418	.....	13628
E3154	.....	12960	E3236	.....	13168	E3325	.....	13464	E3419	.....	13642
E3156	.....	12964	E3238	.....	13160	E3325.4	.....	13472	E3420	.....	13648
E3157	.....	12968	E3240	.....	13156	E3326	.....	13468	E3422	.....	13652
E3158	.....	12972	E3242	.....	13180	E3327	.....	13436	E3426	.....	13644
E3160	.....	12976	E3243	.....	13176	E3328	.....	13440	E3428	.....	13656
E3164	.....	12980	E3244	.....	13172	E3328.4	.....	13444	E3431	.....	13660
E3165	.....	12984	E3248	.....	13184	E3328.6	.....	13446	E3431.5	.....	13592
E3166	.....	12985	E3250	.....	13188	E3330	.....	13476	E3432	.....	13672
E3167	.....	12986	E3251	.....	13192	E3331	.....	13428	E3434	.....	13676
E3167.5	.....	13003	E3252	.....	13200	E3331.2	.....	13427	E3436	.....	13680
E3168	.....	13004	E3256	.....	13196	E3331.5	.....	13370	E3438	.....	13684
E3172	.....	13010	E3258	.....	13212	E3331.9	.....	13509	E3439	.....	13688
E3174	.....	13016	E3260	.....	13204	E3332	.....	13508	E3440	.....	13692
E3175	.....	13020	E3262	.....	13208	E3333	.....	13510	E3442	.....	13696
E3176	.....	13024	E3263	.....	13216	E3334	.....	13512	E3443	.....	13700
E3177	.....	13028	E3264	.....	13220	E3334.5	.....	13514	E3444	.....	13704
E3178	.....	13029	E3265.5	.....	13230	E3336	.....	13516	E3445	.....	13708
E3179	.....	13012	E3266	.....	13224	E3338	.....	13520	E3446	.....	13712
E3180	.....	13032	E3267	.....	13232	E3340	.....	13524	E3448	.....	13716
E3181	.....	13036	E3267.5	.....	13234	E3342	.....	13528	E3450	.....	13720
E3183	.....	13040	E3274	.....	13268	E3344	.....	13532	E3451	.....	13724
E3184	.....	13044	E3275	.....	13260	E3346	.....	13536	E3452	.....	13900
E3185	.....	13052	E3275.5	.....	13264	E3348	.....	13426	E3454	.....	13888
E3186	.....	13048	E3276	.....	13256	E3349	.....	13408	E3458	.....	13892
E3188	.....	13056	E3276.6	.....	13258	E3350	.....	13416	E3460	.....	13896
E3191	.....	13058	E3276.7	.....	13259	E3351	.....	13418	E3461	.....	13884
E3193	.....	13060	E3277	.....	13236	E3354	.....	13420	E3463	.....	13876
E3194	.....	13062	E3278	.....	13240	E3356	.....	13424	E3464	.....	13878
E3196	.....	13064	E3279	.....	13248	E3357	.....	13478	E3470	.....	13832
E3197	.....	13063	E3280	.....	13252	E3360	.....	13484	E3470.5	.....	13834
E3200	.....	13080	E3282	.....	13316	E3361	.....	13486	E3471	.....	13836
E3202	.....	13076	E3283	.....	13308	E3364	.....	13540	E3476	.....	13840
E3204	.....	13088	E3284	.....	13312	E3366	.....	13545	E3477	.....	13844
E3205	.....	13068	E3285	.....	13320	E3366.2	.....	13544	E3478	.....	13848
E3206	.....	13084	E3285.5	.....	13318	E3368	.....	13548	E3479	.....	13852
E3208	.....	13092	E3285.51	.....	13319	E3370	.....	13552	E3480	.....	13856
E3212	.....	13096	E3286	.....	13324	E3376	.....	13492	E3481	.....	13860
E3214	.....	13072	E3286.5	.....	13322	E3378	.....	13496	E3482	.....	13864
E3218	.....	13104	E3287	.....	13336	E3380	.....	13556	E3486	.....	13872
E3219	.....	13124	E3288	.....	13328	E3384	.....	13560	E3486.5	.....	13828
E3220	.....	13120	E3290	.....	13332	E3386	.....	13502	E3487	.....	13824
E3222	.....	13132	E3292	.....	13340	E3387	.....	13504	E3488	.....	13820
E3224	.....	13128	E3292.5	.....	13346	E3388	.....	13580	E3488.5	.....	13814
E3225	.....	13136	E3293	.....	13344	E3390	.....	13584	E3490	.....	13664
E3225.1	.....	13138	E3294	.....	13348	E3392	.....	13564	E3492	.....	13668
E3225.2	.....	13140	E3295	.....	13352	E3393	.....	13586	E3493	.....	13591
E3225.3	.....	13142	E3295.4	.....	13356	E3394	.....	13588	E3496	.....	13812
E3226	.....	13304	E3295.7	.....	13358	E3395	.....	13590	E3498	.....	13813
E3226.5	.....	13286	E3296	.....	13360	E3396	.....	13568	E3499.2	.....	13749
E3227	.....	13292	E3297	.....	13364	E3398	.....	13572	E3499.3	.....	13748
E3227.7	.....	13298	E3298	.....	13368	E3400	.....	13576	E3499.5	.....	13748.5
E3228	.....	13300	E3299	.....	13372	E3404	.....	13596	E3500.5	.....	13732
E3228.5	.....	13276	E3299.4	.....	13376	E3405	.....	13598	E3501	.....	13736
E3229	.....	13280	E3300	.....	13380	E3406	.....	13600	E3501.2	.....	13740
E3229.2	.....	13296	E3302	.....	13384	E3408	.....	13604	E3501.4	.....	13744
E3229.5	.....	13272	E3304	.....	13388	E3409	.....	13608	E3501.6	.....	13746
E3229.7	.....	13284	E3306	.....	13392	E3410	.....	13612	E3502	.....	13752
E3229.75	.....	13143	E3308	.....	13396	E3412	.....	13616	E3502.2	.....	13756

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
E3516	.....	13764	E3616	.....	14092	E3727.6	.....	14346	E3822	.....	14533
E3520	.....	13808	E3620	.....	14100	E3727.7	.....	14347	E3824	.....	14532
E3521	.....	13792	E3622	.....	14104	E3728	.....	14340	E3832	.....	14560
E3521.3	.....	13796	E3623	.....	14108	E3729	.....	14348	E3834	.....	14564
E3521.5	.....	13800	E3624	.....	14112	E3729.1	.....	14350	E3835	.....	14568
E3522	.....	13804	E3628	.....	14116	E3729.5	.....	14351	E3836	.....	14572
E3526	.....	13772	E3630	.....	14120	E3731	.....	14360	E3837	.....	14576
E3528	.....	13776	E3632	.....	14124	E3732	.....	14352	E3840	.....	14580
E3530	.....	13780	E3637	.....	14160	E3732.5	.....	14338	E3842	.....	14584
E3531	.....	13784	E3638	.....	14156	E3733	.....	14364	E3844	.....	14588
E3532	.....	13788	E3639	.....	14148	E3734	.....	14368	E3846	.....	14612
E3535.5	.....	13947	E3643	.....	14152	E3734.5	.....	14370	E3848	.....	14614
E3536	.....	13948	E3644	.....	14144	E3741	.....	14372	E3850	.....	14592
E3537	.....	13952	E3644.5	.....	14142	E3742.5	.....	14374	E3852	.....	14596
E3537.4	.....	13956	E3645	.....	14140	E3747	.....	14380	E3853	.....	14600
E3537.5	.....	13960	E3646	.....	14136	E3747.5	.....	14384	E3854	.....	14604
E3537.6	.....	13964	E3647	.....	14132	E3747.7	.....	14385	E3855	.....	14608
E3538	.....	13904	E3648	.....	14128	E3748	.....	14388	E3856	.....	14611
E3544	.....	13912	E3652	.....	14164	E3749	.....	14390	E3857	.....	14610
E3545	.....	13908	E3654	.....	14168	E3750	.....	14392	E3858	.....	14648
E3546	.....	13932	E3655	.....	14176	E3754	.....	14396	E3859	.....	14652
E3548	.....	13920	E3656	.....	14172	E3754.5	.....	14398	E3859.5	.....	14654
E3551	.....	13940	E3658	.....	14180	E3755	.....	14414	E3860	.....	14656
E3552	.....	13936	E3660	.....	14184	E3756	.....	14430	E3861	.....	14660
E3553	.....	13938	E3661	.....	14188	E3757	.....	14428	E3862	.....	14664
E3554	.....	13944	E3662	.....	14192	E3758	.....	14424	E3864	.....	14668
E3556	.....	13968	E3662.4	.....	14193	E3760	.....	14416	E3866	.....	14644
E3558	.....	13975	E3663	.....	14200	E3773	.....	14432	E3868	.....	14700
E3560	.....	13980	E3664	.....	14196	E3774	.....	14400	E3869	.....	14696
E3560.5	.....	13982	E3666	.....	14204	E3776	.....	14436	E3869.4	.....	14688
E3561	.....	13984	E3670	.....	14208	E3778	.....	14440	E3869.42	.....	14690
E3562	.....	13988	E3674	.....	14212	E3779	.....	14444	E3869.7	.....	14692
E3564	.....	13990	E3676	.....	14216	E3780	.....	14448	E3870	.....	14684
E3566	.....	13992	E3678	.....	14220	E3781	.....	14449	E3872	.....	14680
E3570	.....	13996	E3682	.....	14224	E3781.5	.....	14452	E3874	.....	14676
E3575	.....	14000	E3684	.....	14236	E3782	.....	14456	E3876	.....	14672
E3576	.....	14016	E3685	.....	14240	E3783	.....	14460	E3880	.....	14720
E3578	.....	14020	E3686	.....	14244	E3784	.....	14464	E3882	.....	14704
E3579	.....	14030	E3688	.....	14248	E3784.2	.....	14468	E3884	.....	14716
E3580	.....	14004	E3688.5	.....	14251	E3785	.....	14472	E3890	.....	14708
E3582	.....	14008	E3689	.....	14256	E3786	.....	14476	E3892	.....	14712
E3584	.....	14012	E3690	.....	14260	E3788	.....	14480	E3896	.....	14616
E3586	.....	11052	E3691	.....	14268	E3791.2	.....	14494	E3898	.....	14620
E3588	.....	11056	E3693	.....	14269	E3792	.....	14484	E3900	.....	14624
E3590	.....	14024	E3696	.....	14272	E3794	.....	14488	E3901	.....	14625
E3592	.....	14028	E3698	.....	14276	E3794.5	.....	14492	E3901.2	.....	14626
E3595	.....	14032	E3702	.....	14280	E3794.7	.....	14489	E3901.5	.....	14627
E3595.5	.....	14031	E3702.5	.....	14282	E3795	.....	14491	E3902	.....	14628
E3596	.....	14036	E3703	.....	14284	E3795.6	.....	14490	E3903	.....	14630
E3598	.....	14040	E3703.1	.....	14288	E3795.7	.....	14491.5	E3904	.....	14632
E3599	.....	14042	E3704	.....	14292	E3796	.....	14496	E3905	.....	14634
E3600	.....	14044	E3705	.....	14296	E3800	.....	14500	E3906	.....	14636
E3601	.....	14050	E3708	.....	14300	E3804	.....	14504	E3908	.....	14640
E3601.5	.....	14051	E3711	.....	14304	E3804.1	.....	14508	E3910	.....	14744
E3601.7	.....	14050.5	E3712	.....	14312	E3806	.....	14512	E3912	.....	14756
E3602	.....	14052	E3714	.....	14316	E3808	.....	14520	E3916.5	.....	14750
E3602.1	.....	14056	E3714.1	.....	14310	E3809	.....	14518	E3918	.....	14752
E3604	.....	14048	E3719	.....	14320	E3810	.....	14522	E3919	.....	14763
E3610	.....	14060	E3720	.....	14322	E3811	.....	14524	E3919.2	.....	14763.5
E3612	.....	14064	E3721	.....	14324	E3812	.....	14556	E3920	.....	14776
E3613	.....	14068	E3723	.....	14328	E3814	.....	14548	E3921	.....	14769.1
E3613.7	.....	14076	E3725	.....	14332	E3816	.....	14544	E3921.5	.....	14769
E3614	.....	14088	E3726	.....	14336	E3817	.....	14540	E3926	.....	14764
E3614.5	.....	14084	E3726.5	.....	14337	E3818	.....	14542	E3927	.....	14768
E3615	.....	14096	E3727	.....	14344	E3820	.....	14536	E3928	.....	14761

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
E3928.2		14761.5	E4010		14916	E4107.5		15135	E4170.1		15378
E3936		14780	E4010.2		14917	E4108		15136	E4170.2		15380
E3938		14784	E4011		14920	E4109		15140	E4170.4		15388
E3939.5		14581, 14781	E4014		14924	E4110		15148	E4170.5		15390
E3940		14788	E4015		14928	E4110.4		15144	E4170.6		15392
E3942		14792	E4016		14932	E4110.6		15143	E4170.82		15402
E3946		14796	E4017		14940	E4111		15152	E4171.5		15384
E3948		14876	E4018		14944	E4111.5		15154	E4172.2		15510
E3948.5		14877	E4020		14948	E4112		15156	E4172.6		15496
E3950		14872	E4022		14952	E4113		15160	E4173		15480
E3952		14800	E4026		14956	E4113.5		15161	E4174		15476
E3954.2		14798	E4028		14964	E4114		15164	E4174.2		15472
E3954.22		14798.5	E4030		14960	E4118		15172	E4174.4		15468
E3956		14804	E4031		14954	E4118.3		15174	E4174.6		15460
E3957		14808	E4031.2		14955	E4119		15210	E4174.7		15456
E3957.5		14808.5	E4032		14968	E4120		15192	E4174.73		15450
E3958		14812	E4036		14972	E4122		15212	E4174.74		15450.1
E3960		14816	E4038		14976	E4124		15196	E4174.77		15452
E3962		14820	E4040		14980	E4126		15200	E4174.78		15448
E3963		14824	E4042		14984	E4127		15208	E4174.79		15449
E3963.2		14822	E4044		14988	E4130		15204	E4174.8		15444
E3964		14828	E4048		14992	E4134		15216	E4174.82		15440
E3965		14834	E4050		15000	E4134.5		15218	E4174.83		15436
E3965.03		14834.3	E4051		15004	E4134.6		15219	E4174.84		15432
E3965.07		14834.7	E4052		15008	E4135		15220	E4174.86		15404
E3965.1		14835	E4054		15012	E4136		15224	E4175		15420
E3965.13		14835.3	E4058		15016	E4140		15228	E4175.5		15428
E3965.16		14835.7	E4060		15020	E4140.3		15232	E4175.52		15424
E3965.2		14836	E4062		15024	E4141		15236	E4175.54		15412
E3965.4		14838	E4065		15064	E4141.2		15240	E4175.7		15408
E3967		14868	E4066		15048	E4141.37		15244	E4176		15464
E3968.2		14866	E4067		15051	E4141.5		15276	E4176.3		15462
E3970		14832	E4068		15052	E4141.6		15280	E4176.5		15466
E3970.5		14833	E4070		15060	E4141.64		15284	E4177.2		15516
E3971		14840	E4070.3		15062	E4141.66		15288	E4177.4		15520
E3972		14844	E4070.6		15068	E4141.7		15292	E4178		15524
E3973		14864	E4071		15050	E4141.8		15296	E4180		15528
E3973.5		14864.2	E4072		15076	E4141.9		15300	E4182		15536
E3973.6		14865	E4072.4		15080	E4142		15304	E4182.4		15540
E3974		14848	E4072.6		15082	E4143		15308	E4186		15544
E3976		14852	E4073		15028	E4144		15252	E4186.2		15548
E3977		14856	E4073.6		15030	E4148		15256	E4186.5		15552
E3978.9		14857	E4074		15036	E4149		15260	E4186.6		15552.5
E3978.91		14857.1	E4076		15040	E4150		15264	E4187.4		15550
E3979		14860	E4078		15044	E4151		15270	E4187.5		15551
E3984		14724	E4080		15092	E4152		15268	E4187.51		15551.1
E3985		14726	E4081		15096	E4153		15266	E4187.52		15551.2
E3986		14728	E4082		15100	E4154		15248	E4187.53		15551.5
E3988		14737	E4086		15104	E4158		15272	E4187.54		15553
E3989		14736	E4088		15084	E4160		15312	E4188.2		15560
E3990		14740	E4090		15088	E4160.4		15316	E4189		15562.2
E3995.5		14878	E4092		15108	E4162		15320	E4189.2		15562
E3995.6		14879	E4094		15112	E4163		15346	E4189.5		15569
E3995.7		14879.5	E4095		15117	E4163.2		15347	E4189.55		15568.5
E3995.8		14876.2	E4096		15116	E4163.3		15344	E4189.552		15569.1
E3995.85		14876.1	E4098		15120	E4163.5		15348	E4189.554		15569.2
E3996		14880	E4099		15188	E4163.6		15352	E4189.556		15568
E3997		14884	E4100		15176	E4164		15336	E4189.6		15572
E3997.5		14888	E4101		15180	E4164.4		15340	E4189.8		15576
E3998		14892	E4102		15184	E4165		15356	E4190		15578
E4000		14896	E4103		15168	E4167		15328	E4190.6		15582
E4004		14900	E4104		15124	E4168		15324	E4191		15580
E4006		14904	E4106		15134.5	E4169		15372	E4192		15584
E4008		14908	E4106.2		15134	E4169.5		15370	E4192.3		15586
E4009		14912	E4107		15132	E4170		15376	E4193		15592

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
E4194		15588	E4278.5		15985	E4337.5		15688	E4432		16408
E4198		15596	E4279		16000	E4338		15676	E4433		16406
E4199		15598	E4280		16004	E4342		15700	E4433.2		16407
E4200		15600	E4282		15852	E4345.2		16236	E4433.5		16410
E4202		15604	E4283		15856	E4346		16240	E4434		16412
E4204		15608	E4284		15816	E4346.4		16252	E4435		16417
E4208		15612	E4286		15824	E4347		16256	E4436		16416
E4208.5		15614	E4288		15826	E4347.3		16263	E4440		16420
E4209		15616	E4289		15820	E4347.6		16264	E4441		16422
E4209.1		15616.1	E4289.4		15821	E4347.8		16265	E4441.8		16421
E4209.5		15617	E4290		15836	E4348		16244	E4442		16528
E4209.51		15618	E4291		15840	E4349.5		16266	E4442.5		16528.1
E4210		15620	E4292		15848	E4350		16268	E4443		16529
E4212		15628	E4293		15844	E4350.3		16276	E4444		16530
E4214		15632	E4293.6		15880	E4351		16269	E4445.5		16532
E4215		15636	E4294		15860	E4351.3		16270	E4445.7		16536
E4218		15624	E4294.1		15864	E4352		16280	E4445.75		16540
E4220		15648	E4294.15		15865	E4354		16272	E4446		16544
E4222		15652	E4294.2		15868	E4355		16284	E4447		16556
E4222.5		15653	E4294.3		15869	E4356		16285	E4447.1		16557
E4223		15640	E4294.35		15870	E4356.4		16286	E4448		16554
E4224		15644	E4294.4		15866	E4357		16289	E4449		16548
E4225		15642	E4294.5		15872	E4358		16288	E4449.4		16552
E4228		15764	E4295		15876	E4359		16292	E4451		16228
E4230		15760	E4295.5		15884	E4359.3		16287	E4451.3		16424
E4232		15768	E4295.7		15980	E4359.5		16294	E4451.6		16428
E4233		15769	E4296		15948	E4359.75		16295	E4451.8		16435
E4234		15772	E4298		15832	E4360		16296	E4452		16436
E4234.5		15776	E4299		15812	E4361		16300	E4452.08		16438
E4235.4		15784	E4300		15808	E4362		16304	E4452.2		16437
E4236.4		15788	E4300.2		15806	E4366		16308	E4452.3		16441
E4237		15792	E4300.31		15805	E4368		16312	E4453		16432
E4238		15928	E4300.32		15805.2	E4369		16310	E4453.2		16442
E4239		15912	E4302		15804	E4369.4		16311	E4453.5		16508
E4240		15900	E4303		15800	E4370		16316	E4453.9		16443
E4242		15904	E4304		15796	E4371		16320	E4453.91		16443.1
E4242.2		15906	E4306		15712	E4372		16317	E4454		16444
E4242.4		15908	E4307		15714	E4375		16324	E4454.1		16445
E4244		15896	E4308		15708	E4378		16328	E4454.2		16446
E4246		15888	E4310		15724	E4380		16332	E4454.5		16447
E4248		15892	E4311		15728	E4382		16336	E4455		16448
E4249		15916	E4311.2		15732	E4384		16348	E4455.3		16452
E4250		15924	E4311.7		15733	E4408		16340	E4455.5		16460
E4252		15920	E4312		15704	E4408.5		16341	E4455.7		16456
E4256		15932	E4312.5		15723	E4409		16344	E4456		16512
E4258		15936	E4313		15722	E4412		16352	E4458		16516
E4259		15937	E4314		15720	E4413	16353,	16356	E4461		16526
E4260		15940	E4314.7		15721.2	E4416		16360	E4462		16524
E4261		15941	E4314.8		15721.1	E4416.5		16374	E4464		16520
E4262		15944	E4315		15721	E4417		16372	E4466		16500
E4263		15945	E4316		15716	E4418		16377	E4467		16505
E4266		15952	E4318		15736	E4418.5		16378	E4468		16504
E4266.3		15950	E4320		15738	E4418.7		16379	E4472		16496
E4266.31		15950.2	E4322		15744	E4420		16380	E4474		16480
E4266.5		15954	E4326		15752	E4422		16376	E4475		16484
E4267		15956	E4327		15756	E4423		16375	E4475.1		16484.5
E4268		15960	E4328		15758	E4423.1		16375.2	E4475.15		16486
E4269		15964	E4330		15672	E4423.5		16382	E4475.16		16486.5
E4270		15968	E4332		15656	E4423.52		16382.2	E4475.2		16477
E4275		15969	E4332.3		15659	E4424		16388	E4475.22		16478
E4276		15976	E4332.5		15660	E4425		16404	E4475.4		16492
E4277		15996	E4333		15664	E4427		16392	E4476		16476
E4277.5		15992	E4334		15680	E4428		16400	E4478		16472
E4278		15988	E4336		15684	E4428.2		16396	E4478.5		16471
E4278.4		15984	E4336.5		15692	E4430		16384	E4478.52		16470

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
E4478.6	.....	16468.1	E4535	.....	16710	E4559.7	.....	16936	E4615.22	.....	19799
E4479	.....	16469	E4536	.....	16712	E4560	.....	16884	E4615.24	.....	19799.3
E4480	.....	16468	E4537	.....	16716	E4564	.....	16870	E4615.26	.....	19799.5
E4482	.....	16464	E4538	.....	16720	E4565	.....	16876	E4615.3	.....	19798
E4485	.....	16558	E4539.5	.....	16728	E4565.5	.....	16869	E4615.35	.....	19799.6
E4485.1	.....	16559	E4539.6	.....	16732	E4566	.....	16868	E4615.4	.....	19800
E4488	.....	16640	E4540	.....	16736	E4568	.....	16864	E4615.5	.....	19804
E4489	.....	16560	E4542	.....	16744	E4568.3	.....	16861	E4615.51	.....	19804.5
E4492	.....	16564	E4544	.....	16748	E4568.31	.....	16861.1	E4615.6	.....	19808
E4492.2	.....	16565	E4544.4	.....	16749.5	E4568.35	.....	16863	E4616	.....	19816
E4492.3	.....	16565.5	E4544.6	.....	16749	E4568.5	.....	16878	E4616.2	.....	19812
E4492.9	.....	16639	E4545	.....	16752	E4568.6	.....	16878.1	E4616.3	.....	19822
E4494	.....	16568	E4545.3	.....	16756	E4568.7	.....	16878.3	E4616.35	.....	19822.1
E4496	.....	16572	E4546	.....	16760	E4569	.....	16882	E4616.4	.....	19824
E4496.5	.....	16580	E4546.3	.....	16764	E4571.1	.....	16921	E4616.6	.....	19824.1
E4496.57	.....	16580.5	E4546.6	.....	16768	E4571.2	.....	16921.1	E4616.9	.....	19825
E4496.58	.....	16580.6	E4546.8	.....	16782	E4572	.....	16920	E4616.95	.....	19826
E4496.6	.....	16581	E4546.9	.....	16782.5	E4574	.....	16916	E4617	.....	19827
E4496.7	.....	16581.5	E4547	.....	16784	E4575	.....	16904	E4617.5	.....	19832
E4497	.....	16584	E4547.1	.....	16785	E4576.2	.....	16908	E4617.6	.....	19830
E4498	.....	16576	E4547.15	.....	16785.5	E4576.4	.....	16907	E4617.9	.....	19838
E4500	.....	16588	E4547.2	.....	16786	E4576.6	.....	16912	E4618	.....	19840
E4501	.....	16592	E4547.25	.....	16786.5	E4577	.....	16900	E4620	.....	19844
E4502	.....	16596	E4547.4	.....	16789	E4578	.....	16888	E4621	.....	19836
E4502.3	.....	16600	E4547.5	.....	16788	E4580	.....	16892	E4621.2	.....	19837
E4502.4	.....	16604	E4547.6	.....	16790	E4584	.....	16928	E4621.3	.....	19837.1
E4502.41	.....	16598	E4547.7	.....	16792	E4584.5	.....	16925	E4621.4	.....	19837.2
E4502.7	.....	16599	E4547.8	.....	16776	E4585	.....	16924	E4621.45	.....	19837.3
E4503	.....	16608	E4547.9	.....	16780	E4588	.....	19696	E4621.5	.....	19856
E4503.2	.....	16612	E4547.93	.....	16781	E4589	.....	19697	E4621.6	.....	19848
E4504	.....	16628	E4547.95	.....	16781.1	E4589.5	.....	19697.5	E4621.62	.....	19852
E4505	.....	16624	E4548	.....	16772	E4590	.....	19700	E4622	.....	19864
E4506	.....	16620	E4549.2	.....	16793	E4590.2	.....	19702	E4622.1	.....	19866
E4509	.....	16636	E4549.22	.....	16794	E4590.4	.....	19703	E4622.3	.....	19868
E4511	.....	16644	E4550	.....	16796	E4591	.....	19704	E4622.4	.....	19870
E4512	.....	16648	E4550.5	.....	16800	E4591.2	.....	19705	E4622.7	.....	19871
E4512.5	.....	16652	E4550.8	.....	16830.1	E4591.5	.....	19706	E4622.8	.....	19867
E4513	.....	16660	E4550.9	.....	16830	E4592	.....	19708	E4623	.....	19860
E4515	.....	16664	E4551	.....	16808	E4594	.....	19752	E4625	.....	19873
E4515.4	.....	16666	E4551.1	.....	16812	E4595	.....	19740	E4625.1	.....	19873.1
E4515.5	.....	16667	E4552	.....	16816	E4596.1	.....	19744	E4625.4	.....	19874
E4516	.....	16656	E4552.2	.....	16820	E4597	.....	19748	E4625.6	.....	19874.1
E4520	.....	16668	E4552.5	.....	16824	E4598	.....	19732	E4626	.....	19876
E4522	.....	16672	E4552.6	.....	16828	E4598.2	.....	19736	E4627	.....	19880
E4522.4	.....	16670	E4552.8	.....	16832	E4599	.....	19720	E4627.3	.....	19875
E4523	.....	16676	E4553	.....	16834	E4600	.....	19724	E4628	.....	19884
E4523.2	.....	16677	E4553.2	.....	16835	E4600.4	.....	19725	E4628.55	.....	19884.1
E4523.4	.....	16680	E4554	.....	16836	E4602	.....	19716	E4628.57	.....	19894.1
E4523.9	.....	16682	E4555	.....	16844	E4603	.....	19712	E4628.575	.....	19894
E4524	.....	16684	E4555.2	.....	16840	E4604	.....	19810	E4628.58	.....	19893
E4525	.....	16685	E4555.9	.....	16846	E4605	.....	19772	E4628.6	.....	19885
E4525.3	.....	16698	E4556	.....	16848	E4606	.....	19776	E4628.65	.....	19885.1
E4525.4	.....	16698.1	E4556.4	.....	16852	E4607	.....	19756	E4628.68	.....	19885.2
E4525.5	.....	16697	E4556.8	.....	16860	E4607.6	.....	19760	E4628.7	.....	19892
E4526	.....	16688	E4557.1	.....	16943	E4607.7	.....	19770	E4630	.....	19896
E4527	.....	16689.1	E4557.12	.....	16943.1	E4607.8	.....	19761	E4632	.....	19900
E4527.5	.....	16689	E4557.14	.....	16943.2	E4607.9	.....	19762	E4634	.....	19904
E4528	.....	16692	E4557.6	.....	16948	E4608	.....	19768	E4634.5	.....	19905
E4530	.....	16696	E4558	.....	16944	E4608.4	.....	19764	E4638	.....	19908
E4532	.....	16704	E4558.5	.....	16941	E4609	.....	19754	E4640	.....	19948
E4533	.....	16700	E4558.6	.....	16942	E4610	.....	19780	E4640.5	.....	19950
E4533.6	.....	16706	E4559	.....	16940	E4611	.....	19784	E4642	.....	19946
E4533.7	.....	16707	E4559.2	.....	16940.5	E4612	.....	19788	E4643	.....	19944
E4533.8	.....	16707.5	E4559.4	.....	16932	E4613	.....	19792	E4643.25	.....	19942
E4534	.....	16708	E4559.6	.....	16936.5	E4614	.....	19796	E4643.5	.....	19938

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
E4646	.....	19938.1	E4677.6	.....	20051.2	E4733.4	.....	20490	E4772	.....	.20096
E4647.5	.....	19934	E4677.8	.....	20051	E4734	.....	20464	E4772.6	.....	.20112
E4647.7	.....	19932.1	E4678	.....	20052	E4734.2	.....	20466	E4773	.....	.20120
E4647.71	.....	19932	E4680	.....	20028	E4734.4	.....	20476	E4774.2	.....	.20117
E4647.8	.....	19930	E4682	.....	20019	E4735	.....	20472	E4775	.....	.20124
E4647.86	.....	19928	E4687	.....	20064	E4735.1	.....	20468	E4775.5	.....	.20128
E4648	.....	19924	E4688	.....	20060	E4735.2	.....	20480	E4776	.....	.20084
E4649	.....	19916	E4689	.....	20056	E4735.5	.....	20484	E4777	.....	.20156
E4649.4	.....	19918	E4690	.....	20068	E4736	.....	20488	E4778	.....	.16224
E4649.6	.....	19918.1	E4692	.....	20080	E4737	.....	20492	E4779	.....	.16226
E4650	.....	19912	E4692.5	.....	20078	E4738	.....	20394	E4780	.....	.16008
E4650.1	.....	19911.5	E4693	.....	20076	E4739	.....	20384	E4780.4	.....	.16010
E4650.2	.....	19911	E4694	.....	20072	E4740	.....	20392	E4780.5	.....	.16010.5
E4652	.....	19952	E4695	.....	20070	E4741	.....	20396	E4780.6	.....	.16011
E4653	.....	19956	E4698	.....	20132	E4741.5	.....	20398	E4780.7	.....	.16011.5
E4653.2	.....	19958	E4700	.....	20152	E4741.6	.....	20398.1	E4781	.....	.16012
E4653.3	.....	19959	E4702	.....	20136	E4742.5	.....	20400	E4782.4	.....	.16072
E4653.5	.....	19960	E4703	.....	20140	E4743	.....	20408	E4783	.....	.16024
E4654	.....	19968	E4704	.....	20144	E4744	.....	20416	E4784	.....	.16036
E4655	.....	19974	E4704.5	.....	20146	E4745	.....	20412	E4786	.....	.16040
E4655.2	.....	19973	E4705	.....	20148	E4746	.....	20424	E4788	.....	.16056
E4655.5	.....	19970	E4708	.....	20180	E4747	.....	20420	E4788.5	.....	.16060
E4656	.....	19980	E4708.5	.....	20176	E4749	.....	20428	E4790	.....	.16064
E4656.22	.....	19978	E4708.7	.....	20204	E4750	.....	20432	E4791.4	.....	.16068
E4656.24	.....	19977	E4709	.....	20205	E4751.5	.....	20435	E4791.8	.....	.16074
E4656.4	.....	19972	E4710	.....	20186	E4751.7	.....	20435.5	E4792	.....	.16076
E4656.6	.....	19972.1	E4710.4	.....	20187	E4752	.....	20434	E4793	.....	.16075
E4657	.....	19976	E4711	.....	20196	E4752.4	.....	20435.7	E4794	.....	.16080
E4658	.....	19984	E4711.3	.....	20192	E4752.5	.....	20435.6	E4795	.....	.16085
E4658.5	.....	19987	E4711.5	.....	20200	E4755	.....	20440	E4796	.....	.16084
E4659	.....	19988	E4712	.....	20208	E4755.5	.....	20436	E4797.4	.....	.16098
E4661	.....	19996	E4714	.....	20212	E4756	.....	20388	E4797.6	.....	.16098.1
E4661.5	.....	19998	E4716	.....	20272	E4757	.....	20366	E4798	.....	.16100
E4661.6	.....	19998.5	E4718	.....	20276	E4757.5	.....	20368	E4800	.....	.16104
E4662	.....	20000	E4720	.....	20280	E4758.1	.....	20381	E4808	.....	.16120
E4664	.....	20004	E4721	.....	20284	E4758.2	.....	20382	E4810	.....	.16088
E4664.3	.....	20012	E4721.1	.....	20285	E4758.4	.....	20372	E4812	.....	.16092
E4664.4	.....	20008	E4721.2	.....	20285.1	E4758.45	.....	20374	E4813	.....	.16096
E4664.5	.....	20013	E4721.4	.....	20288	E4759	.....	20380	E4813.3	.....	.16121
E4664.6	.....	20014	E4722	.....	20244	E4760	.....	20376	E4813.31	.....	.16121.5
E4665	.....	20016	E4726	.....	20256	E4760.3	.....	20328	E4813.5	.....	.16122
E4665.05	.....	20018	E4726.3	.....	20257	E4760.7	.....	20336	E4813.7	.....	.16123
E4665.2	.....	20172	E4726.4	.....	20258	E4761	.....	20332	E4814	.....	.16124
E4665.25	.....	20174	E4726.5	.....	20258.5	E4761.3	.....	20340	E4816	.....	.16128
E4665.3	.....	20165	E4726.6	.....	20260	E4761.5	.....	20364	E4818	.....	.16132
E4665.4	.....	20164	E4726.7	.....	20261	E4761.8	.....	20344	E4819	.....	.16136
E4665.5	.....	20166	E4727	.....	20264	E4762	.....	20348	E4819.5	.....	.16138
E4665.6	.....	20168	E4727.5	.....	20265	E4763	.....	20352	E4820	.....	.16140
E4665.7	.....	20162	E4727.55	.....	20266	E4763.2	.....	20360	E4821	.....	.16143
E4665.78	.....	20161	E4727.6	.....	20268	E4763.5	.....	20356	E4822	.....	.16145
E4665.8	.....	20160	E4727.65	.....	20269	E4764	.....	20292	E4822.5	.....	.16146
E4665.9	.....	20030	E4727.7	.....	20270	E4764.5	.....	20324	E4824	.....	.16152
E4666	.....	20032.1	E4728	.....	20224	E4765	.....	20308	E4824.5	.....	.16156
E4666.2	.....	20033	E4729	.....	20222	E4765.5	.....	20320	E4825	.....	.16164
E4667	.....	20031	E4730	.....	20216	E4765.7	.....	20316	E4825.5	.....	.16168
E4667.05	.....	20031.6	E4730.4	.....	20220	E4765.8	.....	20313	E4826	.....	.16160
E4667.07	.....	20031.5	E4730.7	.....	20221	E4765.82	.....	20314	E4827	.....	.16170
E4669	.....	20036	E4731	.....	20230	E4766	.....	20312	E4828	.....	.16172
E4669.3	.....	20037	E4731.4	.....	20232	E4766.2	.....	20300	E4829	.....	.16180
E4669.5	.....	20038	E4731.5	.....	20234	E4767	.....	20304	E4830	.....	.16176
E4670	.....	20040	E4731.6	.....	20236	E4768.5	.....	20108	E4830.5	.....	.16182
E4674	.....	20044	E4731.7	.....	20240	E4770	.....	20104	E4831	.....	.16184
E4676	.....	20048	E4732	.....	20452	E4770.6	.....	20092	E4832	.....	.16192
E4677	.....	20050	E4732.5	.....	20456	E4771	.....	20088	E4833	.....	.16188
E4677.5	.....	20051.1	E4733	.....	20460	E4771.4	.....	20100	E4833.6	.....	.16196

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
E4833.7		16202	E4892		17152	E4906		17344	E4930.1		17275
E4836		16204	E4892.4		17144	E4906.2		17348	E4930.11		17253
E4838		16212	E4892.6		17148	E4906.4		17361.1	E4930.15		17279
E4840		16208	E4892.7		17152.5	E4906.6		17361.2	E4930.2		17252
E4842		16216	E4892.8		17153	E4906.8		17362	E4931		17240
E4844		16220	E4892.9		17153.5	E4907		17364	E4931.2		17244
E4848		16980	E4893		17156	E4907.1		17365	E4931.4		17248
E4850		16956	E4893.5		17154	E4907.2		17368	E4931.6		17249
E4852		16976	E4894		17136	E4907.3		17369	E4936.4		17376
E4852.3		16968	E4896		17060	E4908		17339.1	E4936.5		17380
E4852.4		16960	E4896.2		17061	E4909		17338	E4936.55		17384
E4852.6		16972	E4896.42		17067	E4909.2		17339	E4937		17392
E4852.8		16964	E4896.5		17064	E4909.4		17337	E4937.4		17396
E4853		16984	E4896.52		17065.3	E4909.6		17337.5	E4938		17404
E4854		16988	E4896.54		17065.2	E4910		17328	E4938.3		17400
E4854.5		16989	E4896.56		17065.1	E4912		17336	E4940		17408
E4855		16990	E4896.58		17065	E4912.5		17324.5	E4941		17416
E4856		16992	E4896.72		17064.6	E4913		17324	E4944		17412
E4857		16996	E4896.74		17064.4	E4914		17320	E4945		17414
E4857.2		16997	E4896.8		17066.1	E4915		17304	E4946		17420
E4857.25		16997.1	E4896.85		17066	E4916.1		17297	E4946.1		17421
E4857.3		16998	E4896.9		17067.5	E4916.2		17296	E4946.2		17422
E4858		17004	E4897		17068	E4916.3		17295	E4946.4		17422.4
E4858.1		17008	E4897.5		17069	E4916.4		17294	E4946.6		17422.6
E4859		17012	E4898		17072	E4916.6		17300	E4947		17424
E4859.2		17016	E4899		17076	E4916.8		17300.65	E4948		17428
E4860		17020	E4899.05		17077	E4916.85		17300.6	E4949		17436
E4862		17000	E4899.06		17077.1	E4916.9		17300.5	E4949.4		17432
E4866		17024	E4899.1		17078	E4917.2		17301.5	E4949.5		17444
E4868		17028	E4899.3		17080	E4917.4		17301	E4949.55		17445
E4870		17032	E4899.4		17081	E4917.5		17302	E4949.6		17438
E4872		17036	E4899.6		17092	E4917.6		17303	E4949.7		17456
E4874		17040	E4899.8		17192	E4917.8		17303.5	E4949.8		17460
E4875		17038	E4899.9		17196	E4917.9		17317	E4949.9		17457
E4875.8		17043	E4899.94		17238	E4918		17316	E4950		17452
E4876		17044	E4899.96		17236	E4918.8		17289	E4952		17468
E4876.5		17046	E4900		17225	E4918.9		17289.1	E4953		17476
E4877		17049	E4900.2		17208	E4919		17288	E4953.2		17472
E4877.1		17049.1	E4900.4		17212	E4919.2		17288.1	E4954		17480
E4878		17048	E4900.5		17213	E4920		17286	E4955		17484
E4879		17052	E4900.6		17216	E4920.5		17287	E4955.3		17490
E4879.5		17054	E4900.7		17220	E4921		17285	E4955.4		17488
E4880		17056	E4900.79		17093	E4922		17284	E4956		17496
E4880.2		17058	E4900.797		17092.1	E4922.5		17283	E4956.2		17500
E4880.25		17058.5	E4900.798		17092.2	E4923.3		17282	E4956.4		17504
E4880.3		17110	E4900.8		17200	E4924		17254	E4958		17508
E4880.6		17112	E4900.9		17093.1	E4926		17255	E4960		17512
E4881		17132	E4901		17100	E4926.1		17257	E4962		17516
E4881.3		17134	E4901.7		17096	E4926.2		17258	E4964		17520
E4881.4		17135	E4902		17104	E4926.23		17258.2	E4965		17524
E4881.5		17135.5	E4902.5		17105	E4926.25		17258.1	E4965.1		17525
E4881.6		17116	E4902.6		17105.1	E4926.3		17259	E4965.2		17525.5
E4881.7		17120	E4902.71		17105.2	E4926.35		17260.1	E4966		17528
E4881.71		17128	E4902.75		17105.21	E4926.41		17260	E4966.4		17532
E4881.72		17124	E4903		17340	E4926.8		17261	E4966.6		17536
E4881.74		17129	E4903.4		17108	E4926.9		17262	E4968		17540
E4881.9		17159	E4903.45		17106	E4927		17263	E4970		17544
E4882		17160	E4903.6		17107	E4927.4		17264	E4971		17548
E4884		17164	E4903.7		17388	E4927.7		17265	E4971.5		17550
E4885		17168	E4903.75		17389	E4927.8		17265.1	E4972		17552
E4886		17188	E4903.8		17372	E4928		17272	E4974		17556
E4887		17180	E4904		17352	E4929		17280	E4976		17564
E4888		17176	E4904.2		17356	E4929.9		17278	E4980		17572
E4889		17184	E4904.6		17360	E4930		17274.6	E4981		17576
E4890		17172	E4904.8		17361	E4930.05		17274.7	E4981.3		17577

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
E4981.4		17578	E5073		17876	E5210.1		18179.6	E5378		18558
E4981.41		17578.1	E5075		17884	E5242		18192	E5378.1		18559
E4983		17581	E5076		17892	E5244		18180	E5422		18560
E4983.5		17582	E5076.1		17896	E5246		18188	E5423.5		18570
E4983.8		17583	E5076.3		17886	E5247		18184	E5423.6		18570.1
E4984		17580	E5076.35		17889	E5248		18200	E5428		18936
E4986		17584	E5076.4		17888	E5250		18205	E5436		18608
E4988		17588	E5076.8		17898	E5255		18210	E5448		18628
E4988.5		17589	E5077.3		17899.1	E5272		18220	E5452		18632
E4989		17592	E5077.5		17899	E5278		18244	E5454		18640
E4989.2		17596	E5077.55		17899.5	E5279.5		18249	E5458		18648
E4990		17604	E5077.7		17900	E5279.51		18249.1	E5460		18652
E4994		17608	E5078		17904	E5280		18248	E5462		18656
E4996		17612	E5082		17912	E5281		18250	E5464		18660
E4998		17616	E5084		17916	E5282		18252	E5464.1		18664
E5000		17624	E5086		17920	E5284		18255	E5472		18680
E5004		17628	E5088		17924	E5285		18258	E5478		18732
E5005		17633	E5089		17958	E5287		18260	E5478.1		18736
E5006		17632	E5089.4		17960	E5288		18268	E5478.2		18740
E5008.5		17640	E5090		17928	E5293		18269	E5482		18744
E5008.7		17642	E5090.1		17932	E5300		18270	E5483		18745
E5009.5		17646	E5091		17952	E5302		18272	E5483.2		18746
E5010		17648	E5092		17956	E5302.1		18273	E5484		18724
E5011		17652	E5100		17964	E5302.5		18276	E5490		18720
E5012		17656	E5102		17944	E5302.53		18285	E5492		18716
E5016		17660	E5102.1		17948	E5302.535		18286	E5500		18748
E5018		17664	E5103		17936	E5303.5		18278	E5501		18749
E5019		17668	E5103.1		17940	E5303.51		18279	E5502		18750
E5019.5		17672	E5106		17984	E5304.7		18280	E5504		18751
E5020		17684	E5107		17988	E5304.71		18281	E5510		18756
E5022		17688	E5108		17992	E5305.5		18316	E5510.1		18760
E5025		17692	E5110		18000	E5308		18320	E5510.2		18764
E5026		17700	E5116		18008	E5309		18324	E5516		18752
E5026.2		17704	E5118		18016	E5310		18326	E5578		18880
E5026.4		17708	E5118.1		18020	E5314		18336	E5586		18896
E5027.2		17690	E5124		18058	E5316		18340	E5594		18904
E5028		17728	E5126		18024	E5320		18344	E5606		18928
E5028.2		17720	E5126.1		18028	E5321		18345	E5615		18440
E5030		17732	E5128		18044	E5321.1		18345.1	E5616		18436
E5030.2		17733	E5128.1		18048	E5323		18350	E5616.5		18940
E5031		17736	E5130		18068	E5326		18356	E5617.2		18941
E5032		17740	E5130.1		18072	E5328		18360	E5617.5		18942
E5034		17744	E5130.2		18076	E5328.5		18362	E5618		18944
E5034.2		17745	E5136.1		18056	E5329		18364	E5632		18964
E5034.4		17745.5	E5137		18060	E5330		18368	E5632.5		18972
E5036		17772	E5137.1		18064	E5340		18384	E5633		18976
E5036.3		17772.3	E5146		18080	E5341		18380	E5634		18978
E5038		17790	E5146.1		18084	E5352		18404	E5636		18984
E5038.01		17790.1	E5149		18088	E5353		18396	E5638		19000
E5041.2		17792	E5149.1		18092	E5358		18408	E5638.1		19004
E5042		17796	E5152		18164	E5361		18412	E5639		18980
E5042.1		17800	E5152.1		18168	E5370		18448	E5640		18988
E5053		17808	E5156		18172	E5370.1		18452	E5640.1		18992
E5053.6		17820	E5156.1		18176	E5372		18476	E5640.2		18996
E5054		17824	E5181.9		18095	E5372.1		18480	E5642		19024
E5056		17828	E5182		18096	E5373		18456	E5642.1		19028
E5060		17840	E5182.1		18100	E5373.1		18460	E5642.2		19030
E5060.1		17844	E5192		18110	E5374		18492	E5642.3		19021
E5068		17848	E5192.1		18110.1	E5374.1		18496	E5642.4		19022
E5071		17860	E5195		18177	E5374.41		18499.2	E5642.5		19023
E5071.4		17864	E5195.1		18177.1	E5374.42		18499.3	E5642.8		19008
E5072		17868	E5203-1		18178	E5374-4		18499.1	E5643		19016
E5072.1		17872	E5206		18179	E5375		18520	E5643.5		19020
E5072.3		17885	E5207		18179.1	E5376		18552	E5643.55		19020.1
E5072.6		17878	E5210		18179.5	E5376.1		18556	E5644		19032

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
E5644.7		19040	E5744		19252	E5795.4		19454	E5829.5		19660
E5645		19044	E5746		19256	E5795.45		19454.1	E5830		19664
E5646		19048	E5749		19280	E5796		19456	E5830.2		19672
E5646.2		19048.1	E5749.1		19284	E5796.2		19457	E5830.4		19668
E5646.6		19048.5	E5760		19288	E5796.4		19457.5	E5830.7		19666
E5646.62		19048.6	E5761		19304	E5797		19458	E5831		19676
E5647		19049	E5762		19277	E5797.1		19458.5	E5831.4		19677
E5647.2		19051	E5762.1		19277.1	E5798		19460	E5831.42		19678
E5652.6		19052	E5762.2		19296	E5799		19464	E5832		19680
E5652.62		19056	E5763		19300	E5800		19468	E5832.4		19684
E5653.3		19036	E5763.44		19312	E5800.5		19470	E5833		19688
E5653.7		19059	E5763.6		19313	E5801		19472	E5834		19692
E5653.75		19058	E5764		19314	E5802		19480	E5836		20496
E5653.8		19058.2	E5765		19320	E5802.2		19484	E5838		20500
E5654		19068	E5768		19324	E5802.3		19485	E5838.2		20501
E5654.44		19072	E5770		19336	E5803		19476	E5838.27		20501.1
E5655.8		19075	E5772		19328	E5803.4		19488	E5838.28		20501.2
E5656		19076	E5772.1		19332	E5805		19492	E5838.29		20501.3
E5660		19080	E5773		19334	E5806		19496	E5838.3		20502
E5664.8		19090	E5773.1		19334.1	E5806.5		19500	E5838.35		20502.1
E5666		19100	E5773.6		19335	E5806.6		19504	E5838.4		20504
E5668		19108	E5773.61		19335.1	E5807		19508	E5838.5		20506
E5670		19112	E5774		19338	E5807.1		19509	E5838.6		20508
E5671		19110	E5776		19340	E5807.2		19510	E5838.65		20509
E5672		19116	E5779		19344	E5808		19512	E5838.67		20509.1
E5674		19120	E5779.1		19348	E5808.4		19520	E5838.68		20509.2
E5674.1		19124	E5779.5		19361	E5808.5		19516	E5838.7		20510
E5682		19126	E5779.51		19361.5	E5809		19528	E5839		20516
E5684		19128	E5780		19352	E5810		19532	E5839.4		20512
E5684.5		19129	E5780.5		19357	E5810.5		19534	E5839.45		20520
E5685		19130	E5780.6		19360	E5810.6		19534.5	E5839.5		20532
E5685.5		19131	E5780.7		19365	E5811		19536	E5840		20552
E5686		19132	E5780.8		19365.5	E5812		19544	E5840.4		20556
E5687.9		19152	E5781		19364	E5813		19548	E5841		20536
E5688		19136	E5781.1		19362	E5814		19552	E5842		20540
E5688.1		19156	E5781.2		19362.5	E5816		19556	E5843.5		20538
E5688.2		19160	E5782		19368	E5816.5		19560	E5843.7		20550
E5689		19140	E5782.8		19380	E5816.55		19564	E5843.8		20551
E5690		19148	E5782.9		19385	E5816.6		19568	E5844.2		20528
E5694		19162	E5782.95		19385.5	E5816.7		19572	E5844.21		20558
E5696		19163	E5783		19384	E5817		19576	E5844.22		20529
E5698		19164	E5784		19388	E5817.5		19584	E5844.4		20560
E5699.5		19165	E5785		19392	E5818		19580	E5844.6		20564
E5699.51		19166.1	E5785.6		19400	E5818.3		19585	E5844.8		20565
E5699.52		19166.2	E5786		19408	E5818.31		19585.1	E5844.9		20563
E5699.53		19166	E5787		19404	E5818.4		19588	E5845		20572
E5700		19168	E5787.5		19412	E5818.5		19592	E5846		20576
E5706		19172	E5787.8		19416	E5818.51		19591	E5846.5		20581
E5708		19176	E5788		19420	E5818.6		19596	E5847		20580
E5708.1		19180	E5789		19424	E5818.62		19598	E5847.5		20580.5
E5718		19192	E5789.4		19440	E5819		19604	E5847.6		20568
E5721		19200	E5790		19428	E5819.4		19606	E5848		20584
E5724		19204	E5791		19432	E5820		19608	E5848.2		20592
E5724.5		19206	E5792		19436	E5821		19624	E5848.4		20588
E5725		19209	E5792.9		19443	E5822		19620	E5848.5		20596
E5726		19212	E5793		19444	E5823		19612	E5849		20604
E5727		19214	E5793.21		19445	E5823.1		19616	E5849.4		20608
E5727.1		19214.1	E5793.3		19445.1	E5826		19632	E5849.6		20612
E5728		19216	E5793.5		19446	E5827		19640	E5850		20616
E5728.1		19220	E5793.7		19447	E5827.2		19644	E5852		20620
E5734		19228	E5794		19448	E5827.4		19648	E5854		20624
E5736		19232	E5794.5		19450	E5828		19652	E5854.4		20628
E5738		19234	E5795		19452	E5828.2		19656	E5854.8		20630
E5738.1		19234.1	E5795.3		19453	E5829		19658.5	E5855		20632
E5742		19236	E5795.35		19453.1	E5829.3		19658	E5855.4		20636

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
E5855.5		20631	E5890		20965	E5924.2		21045	E5970.5		21272.1
E5855.51		20631.1	E5892		20944	E5924.3		21045.5	E5970.6		21272.15
E5856		20644	E5893		20948	E5926		21048	E5971		21272.2
E5857		20640	E5894		20952	E5927		21052	E5971.1		21272.3
E5858		20648	E5895		20956	E5927.2		21054	E5971.15		21272.35
E5859		20652	E5896		20960	E5927.6		21060	E5971.3		21272.4
E5860		20656	E5897		20961	E5929		21064	E5971.5		21272.5
E5861		20660	E5900		20968	E5929.2		21068	E5973		21274
E5862		20664	E5901		20970	E5929.4		21072	E5978.2		21276
E5866		20668	E5901.6		20971	E5929.6		21076	E5978.6		21292.5
E5866.5		20669	E5902		20972	E5929.8		21080	E5979		21292
E5866.51		20669.1	E5902.4		20973.5	E5930		21084	E5980		21284
E5867		20670	E5902.6		20973	E5931.2		21088	E5980.1		21288
E5867.5		20673	E5904		20976	E5932		21092	E5983		21293
E5868		20672	E5906		20980	E5933		21094	E5983.2		21294
E5871		20676	E5907		20984	E5933.1		21096	E5985		21300
E5871.3		20680	E5907.5		20985	E5933.3		21104	E5985.2		21304
E5871.32		20684	E5907.6		20986	E5934		21116	E6156		21308
E5871.4		20688	E5908		20836	E5935		21120	E6158		21312
E5871.42		20692	E5908.6		20850	E5935.5		21121	E6158.5		21316
E5871.5		20696	E5910		20780	E5935.8		21122	E6159		21317
E5872		20708	E5910.1		20781	E5935.9		21122.2	E6159.1		21317.1
E5872.2		20712	E5910.2		20782	E5935.95		21122.4	E6159.3		21318
E5872.4		20716	E5911		20786	E5938		21132	E6159.4		21318.5
E5873		20720	E5912		20788	E5938.1		21128	E6159.6		21319
E5873.05		20729	E5912.02		20792	E5940		21140	E6162		21320
E5873.1		20722	E5912.5		20804	E5940.5		21148	E6166		21324
E5873.2		20724	E5912.6		20805	E5941		21152	E6167		21325
E5873.3		20728	E5913		20808	E5941.8		21188	E6167.1		21325.1
E5873.4		20721.1	E5913.02		20812	E5942		21192	E6168		21328
E5873.5		20721.2	E5913.5		20812.5	E5943		21200	E6168.2		21330
E5873.55		20723	E5914		20813	E5943.2		21196	E6168.3		21331
E5873.6		20744	E5914.1		20813.6	E5943.7		21202	E6168.31		21331.1
E5873.7		20748	E5914.2		20813.61	E5944		21204	E6168.4		21331.5
E5873.8		20752	E5914.4		20813.5	E5944.2		21208	E6170		21336
E5874		20756	E5914.65		20813.7	E5944.3		21209	E6171		21332
E5874.4		20760	E5914.66		20813.8	E5945		21212	E6171.4		21340
E5874.5		20764	E5914.67		20813.9	E5946		21216	E6173		21344
E5874.6		20766	E5914.7		20814	E5946.05		21217	E6173.5		21412.5
E5875		20768	E5914.9		20817	E5946.1		21218	E6174		21370
E5875.2		20772	E5915		20820	E5947		21220	E6176		21356
E5875.5		20776	E5915.02		20824.5	E5949		21221.4	E6176.1		21360
E5876		20856	E5915.1		20822	E5949.3		21221	E6176.5		21376
E5876.2		20860	E5915.22		20824	E5949.5		21221.6	E6179		21416
E5876.3		20864	E5915.4		20825	E5952		21228	E6180		21380
E5876.4		20852	E5915.5		20826	E5952.5		21232.5	E6182		21384
E5876.6		20868	E5916		20816	E5953		21232	E6183		21388
E5876.8		20872	E5917		20832	E5953.1		21233	E6183.3		21390
E5877		20888	E5919		20988	E5954		21234	E6186.5		21400
E5877.4		20884	E5919.4		20992	E5954.5		21234.2	E6189		21408
E5878		20892	E5920		20996	E5954.6		21234.4	E6190		21412
E5878.1		20896	E5921.4		21006	E5956		21236	E6191		21413
E5880		20876	E5921.5		21005	E5957		21238	E6191.1		21413.5
E5880.2		20880	E5921.51		21005.1	E5958.4		21240	E6191.2		21413.7
E5880.7		20882	E5921.6		21004	E5959.4		21252	E6191.3		21414
E5881.1		20901	E5921.7		21007.1	E5962.4		21257	E6193		21418
E5881.2		20901.5	E5921.71		21007	E5962.5		21258	E6194		21420
E5882		20904	E5922		21012	E5963		21256	E6198		21422
E5882.5		20908	E5922.2		21016	E5964		21259	E6198.1		21422.1
E5882.6		20912	E5923		21020	E5965		21259.5	E6204		21424
E5883.1		20924	E5923.2		21024	E5967		21260	E6206		21428
E5883.6		20928	E5923.5		21032	E5968		21264	E6210		21432
E5884		20916	E5923.7		21039	E5969		21268	E6214		21436
E5884.4		20920	E5923.8		21040	E5969.5		21269	E6220		21452
E5888		20940	E5924		21044	E5970		21272	E6221		21440

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
E6224	.....	21444	E6266.8	.....	21615.4	E6356	.....	21832	E6408	.....	.22012
E6224.1	.....	21448	E6267	.....	21615.5	E6358	.....	21834	E6410	.....	.22032
E6226	.....	21450	E6267.2	.....	21616	E6359	.....	21836	E6412	.....	.22040
E6226.2	.....	21450.1	E6267.6	.....	21621	E6361.5	.....	21858	E6413	.....	.22044
E6226.4	.....	21450.2	E6267.7	.....	21621.5	E6362	.....	21848	E6413.2	.....	.22048
E6227	.....	21451	E6268	.....	21624	E6362.5	.....	21845	E6414	.....	.22056
E6228	.....	21456	E6274	.....	21628	E6362.6	.....	21846	E6415	.....	.22060
E6230	.....	21464	E6275	.....	21628.5	E6362.7	.....	21847	E6415.2	.....	.22062
E6234	.....	21468	E6276	.....	21628.6	E6364	.....	21897	E6416	.....	.22064
E6236	.....	21472	E6277	.....	21629.5	E6364.2	.....	21897.2	E6418	.....	.22065
E6238	.....	21476	E6277.1	.....	21629.51	E6366.6	.....	21852	E6418.1	.....	.22066
E6239	.....	21480	E6278	.....	21630	E6368	.....	21900	E6420	.....	.22068
E6242	.....	21484	E6278.1	.....	21630.1	E6369	.....	21898	E6422	.....	.22076
E6244	.....	21488	E6278.4	.....	21631	E6369.2	.....	21899	E6423	.....	.22078
E6246	.....	21492	E6278.5	.....	21631.5	E6370	.....	21904	E6423.4	.....	.22078.5
E6248	.....	21496	E6278.6	.....	21631.1	E6371	.....	21908	E6426	.....	.22080
E6250	.....	21500	E6280	.....	21632	E6371.2	.....	21912	E6428	.....	.22084
E6251.5	.....	21504	E6284	.....	21636	E6371.4	.....	21913	E6432	.....	.22088
E6251.8	.....	21508	E6288	.....	21640	E6372	.....	21916	E6434	.....	.22092
E6252	.....	21509	E6290	.....	21644	E6372.6	.....	21917	E6436	.....	.22096
E6252.2	.....	21509.1	E6292	.....	21648	E6372.8	.....	21919	E6438	.....	.22100
E6252.4	.....	21510	E6294	.....	21652	E6373	.....	21925	E6440	.....	.22104
E6252.6	.....	21511	E6296	.....	21656	E6373.2	.....	21926	E6445	.....	.22124
E6252.7	.....	21511.5	E6296.1	.....	21660	E6373.22	.....	21924	E6446	.....	.22120
E6253	.....	21512	E6296.4	.....	21664	E6373.6	.....	21921	E6454	.....	.22106
E6253.2	.....	21516	E6296.5	.....	21668	E6373.8	.....	21922	E6456	.....	.22132
E6253.3	.....	21517	E6296.6	.....	21672	E6374	.....	21932	E6458	.....	.22136
E6253.4	.....	21518	E6299	.....	21676	E6376	.....	21933	E6459	.....	.22138
E6253.5	.....	21519	E6299.5	.....	21680	E6377	.....	21936	E6459.1	.....	.22139
E6253.6	.....	21520	E6304	.....	21692	E6377.2	.....	21935	E6459.2	.....	.22140
E6253.7	.....	21521	E6305	.....	21696	E6380	.....	21920	E6460	.....	.22148
E6254.5	.....	21524	E6306	.....	21684	E6381	.....	21940	E6462	.....	.22152
E6254.6	.....	21526	E6306.1	.....	21688	E6381.5	.....	21944	E6462.4	.....	.22156
E6254.7	.....	21528	E6316	.....	21708	E6382	.....	21956	E6464	.....	.22144
E6255.4	.....	21534	E6318	.....	21712	E6384	.....	21952	E6465	.....	.22145
E6255.45	.....	21536	E6322	.....	21716	E6385	.....	21960	E6465.2	.....	.22146
E6255.5	.....	21540	E6323	.....	21720	E6385.5	.....	21964	E6482	.....	.22164
E6255.51	.....	21544	E6324	.....	21722	E6385.7	.....	21948	E6483	.....	.22166
E6255.6	.....	21545	E6325	.....	21724	E6386	.....	21976.5	E6484	.....	.22168
E6255.7	.....	21546	E6326	.....	21728	E6386.1	.....	21976.51	E6486	.....	.22176
E6256	.....	21564	E6327	.....	21738	E6387	.....	21972	E6490	.....	.22180
E6256.2	.....	21562	E6327.4	.....	21744.1	E6387.3	.....	21976	E6492.4	.....	.22184
E6256.4	.....	21566	E6327.41	.....	21744.2	E6388	.....	21976.3	E6495	.....	.22192
E6256.41	.....	21560	E6327.42	.....	21744.3	E6388.2	.....	21976.4	E6495.2	.....	.22188
E6256.9	.....	21572	E6327.43	.....	21744.4	E6389.5	.....	21976.6	E6496	.....	.22196
E6257	.....	21568	E6328	.....	21740	E6389.6	.....	21976.7	E6504	.....	.22204
E6257.1	.....	21576	E6328.2	.....	21741	E6390	.....	21980	E6506	.....	.22208
E6258	.....	21580	E6330.2	.....	21760	E6390.4	.....	21977	E6508	.....	.22212
E6258.1	.....	21584	E6332	.....	21764	E6390.42	.....	21978	E6510	.....	.22216
E6259	.....	21588	E6334	.....	21776	E6390.6	.....	21979	E6512	.....	.22220
E6259.1	.....	21592	E6338	.....	21780	E6391	.....	21982	E6514	.....	.22224
E6259.2	.....	21590	E6339	.....	21772	E6392	.....	21984	E6516	.....	.22228
E6260	.....	21596	E6340	.....	21758	E6392.3	.....	21985	E6518	.....	.22232
E6263	.....	21604	E6340.5	.....	21805	E6392.4	.....	21985.1	E6520	.....	.22252
E6263.1	.....	21608	E6342.4	.....	21804	E6394	.....	21988	E6520.2	.....	.22256
E6264	.....	21598	E6344	.....	21784	E6394.2	.....	21989	E6522	.....	.22240
E6264.4	.....	21600	E6345	.....	21806	E6394.4	.....	21989.1	E6523	.....	.22248
E6264.5	.....	21602	E6348	.....	21820	E6394.5	.....	21990	E6524	.....	.22244
E6266	.....	21612	E6349	.....	21821	E6394.6	.....	21991	E6530	.....	.22264
E6266.3	.....	21613	E6350	.....	21822	E6396	.....	21996	E6533	.....	.22268
E6266.4	.....	21614	E6352	.....	21812	E6396.5	.....	22008	E6534	.....	.22272
E6266.5	.....	21615	E6352.4	.....	21816	E6397	.....	22002	E6538	.....	.22276
E6266.51	.....	21615.1	E6353	.....	21826	E6397.5	.....	22000	E6540	.....	.22280
E6266.6	.....	21615.2	E6353.1	.....	21827	E6399	.....	22004	E6542	.....	.22284
E6266.7	.....	21615.3	E6354	.....	21828	E6401	.....	21995	E6544	.....	.22288

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.	Inter.	—	U.S.
E6550	.....	22292	E6638	.....	22472	E6695.2	.....	22632	E6784	.....	.22784
E6551	.....	22296	E6640	.....	22476	E6696	.....	22636	E6784.4	.....	.22792
E6552	.....	22300	E6642	.....	22480	E6696.2	.....	22640	E6784.41	.....	.22796
E6558	.....	22308	E6644	.....	22486	E6700	.....	22644	E6784.6	.....	.22800
E6560	.....	22312	E6646	.....	22488	E6704	.....	22648	E6784.61	.....	.22804
E6562	.....	22316	E6648	.....	22500	E6704.1	.....	22652	E6785	.....	.22812
E6566	.....	22324	E6649	.....	22504	E6704.4	.....	22656	E6785.2	.....	.22808
E6567	.....	22320	E6650	.....	22496	E6704.42	.....	22660	E6786	.....	.22788
E6572	.....	22328	E6651	.....	22492	E6704.5	.....	22664	E6788	.....	.22816
E6573	.....	22332	E6652	.....	22508	E6706.4	.....	22668	E6789	.....	.22820
E6578	.....	22336	E6656	.....	22512	E6708	.....	22672	E6789.5	.....	.22822
E6580	.....	22340	E6656.5	.....	22516	E6712	.....	22676	E6820	.....	.22828
E6582	.....	22344	E6658	.....	22520	E6714	.....	22684	E6824	.....	.22832
E6584	.....	22348	E6660	.....	22524	E6716	.....	22688	E6825	.....	.22836
E6588	.....	22352	E6661	.....	22536	E6717	.....	22692	E6830	.....	.22838
E6590	.....	22356	E6662	.....	22532	E6718	.....	22696	E7010	.....	.7536
E6592	.....	22360	E6664	.....	22528	E6720	.....	22700	E7010.5	.....	.7538
E6593.4	.....	22364	E6665.3	.....	22576	E6722	.....	22708	E7053	.....	.9184
E6594	.....	22368	E6665.4	.....	22572	E6722.2	.....	22712	E7054	.....	.9188
E6596	.....	22372	E6665.5	.....	22577	E6726	.....	22716	E7120	.....	.10190
E6602	.....	22380	E6665.6	.....	22578	E6732	.....	22704	E7470	.....	.11260
E6604	.....	22384	E6669	.....	22548	E6752	.....	22732	E7471	.....	.11256
E6606	.....	22388	E6670	.....	22552	E6754	.....	22724	E7520	.....	.11368
E6610	.....	22404	E6671	.....	22560	E6756	.....	22728	E7522	.....	.11374
E6611	.....	22400	E6671.2	.....	22556	E6757	.....	22720	E7580	.....	.12054
E6612	.....	22412	E6672	.....	22540	E6757.2	.....	22721	E7581	.....	.12054.5
E6613	.....	22408	E6674	.....	22580	E6757.25	.....	22722	E7582	.....	.12054.6
E6616	.....	22416	E6678	.....	22584	E6757.6	.....	22744	E7583	.....	.12054.2
E6617	.....	22420	E6679	.....	22588	E6758	.....	22736	E7584	.....	.12055
E6620	.....	22376	E6679.4	.....	22600	E6762	.....	22740	E7601	.....	.16775
E6621	.....	22424	E6680	.....	22592	E6763	.....	22742	E7601.5	.....	.16787
E6624	.....	22432	E6682	.....	22596	E6764	.....	22748	E7640.5	.....	.17266
E6624.6	.....	22434	E6684	.....	22604	E6765	.....	22754	E7641	.....	.17274
E6628	.....	22440	E6684.2	.....	22608	E6768	.....	22752	E7642	.....	.17274.5
E6629	.....	22438	E6685	.....	22610	E6770	.....	22749	E7669	.....	.18245
E6630	.....	22444	E6685.2	.....	22612	E6773	.....	22756	E7700	.....	.21273
E6631	.....	22448	E6687	.....	22616	E6774	.....	22760	E7860	.....	.21700
E6632	.....	22452	E6694	.....	22624	E6776	.....	22768			
E6636	.....	22468	E6694.2	.....	22620	E6778	.....	22772			
E6637	.....	22484	E6695	.....	22628	E6780	.....	22776			