PUB. 113

LIST OF LIGHTS

RADIO AIDS AND FOG SIGNALS

2016

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

Prepared and published by the
NATIONAL GEOSPATIAL-INTELLIGENCE AGENCY
Springfield, VA

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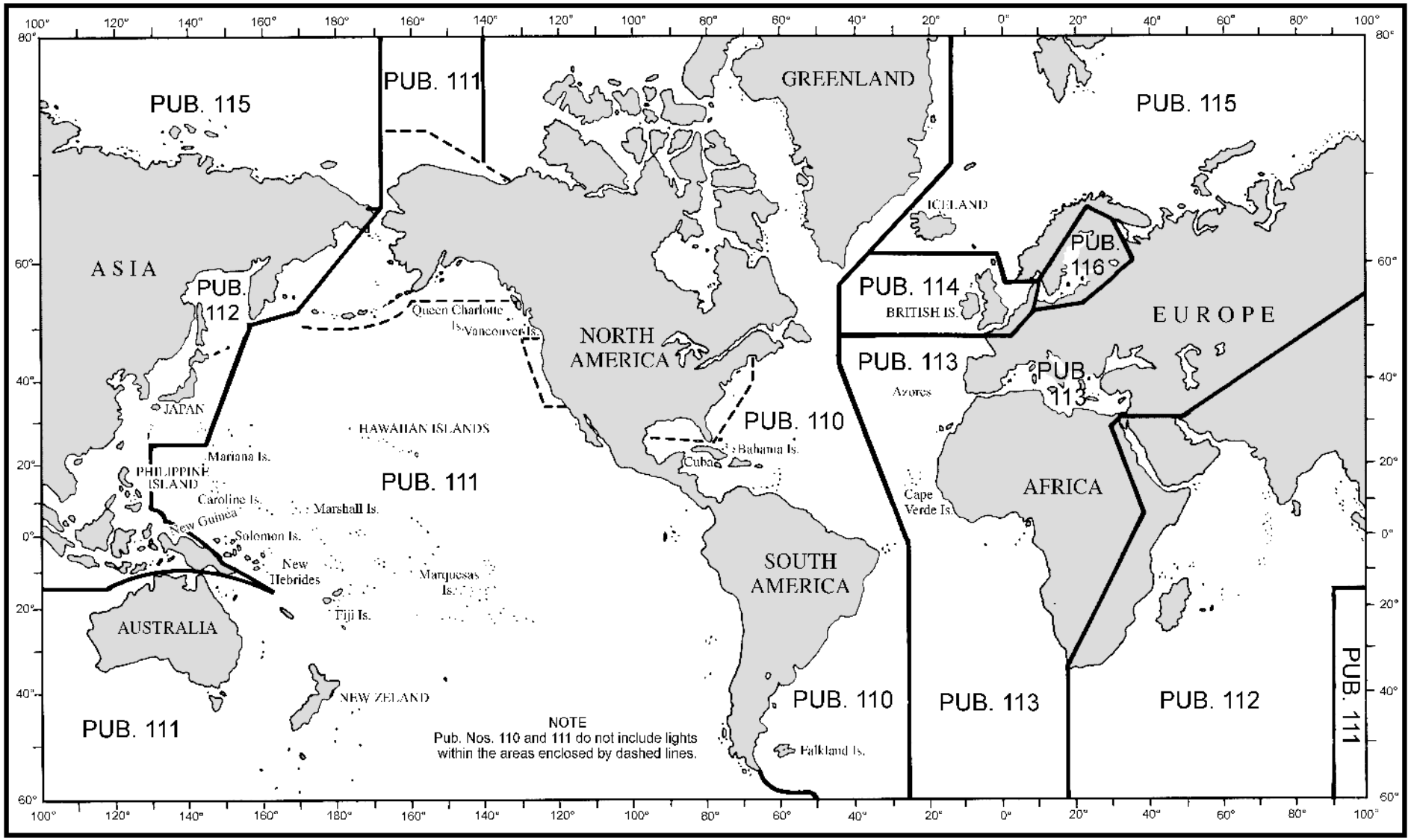
LIST OF LIGHTS LIMITS
NATIONAL GEOSPATIAL-INTELLIGENCE AGENCY



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

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

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

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

PREFACE

The 2016 edition of Pub. 113, List of Lights, Radio Aids and Fog Signals for the West Coasts of Europe and Africa, the Mediterrean 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 29 October 2016, including Notice to Mariners No. 44 of 2016.

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 2016				YEAR 2017			
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:

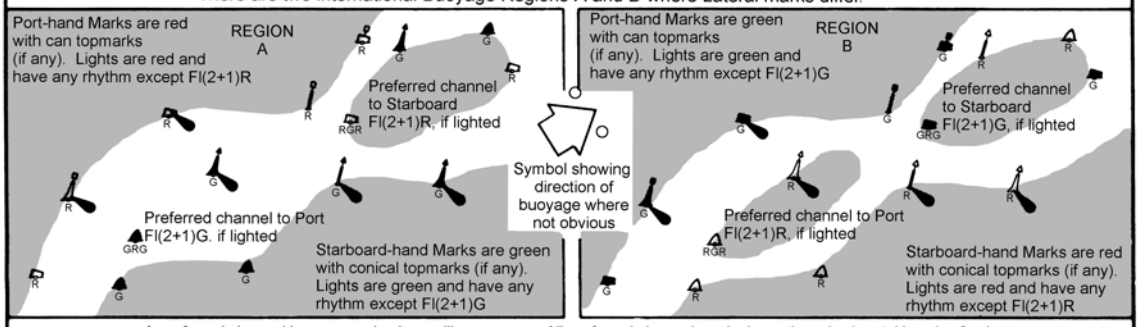
MARITIME SAFETY OFFICE
N64-SFH
NATIONAL GEOSPATIAL-INTELLIGENCE AGENCY
7500 GEOINT DRIVE
SPRINGFIELD VA 22150-7500

Buoys and Beacons IALA* Buoyage System

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

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

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

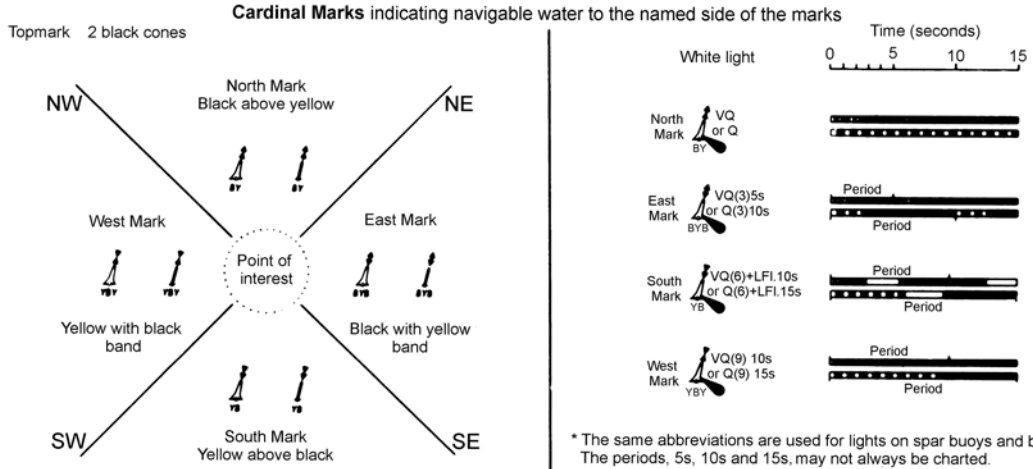


A preferred channel buoy may also be a pillar or a spar. All preferred channel marks have three horizontal bands of color

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

UNLIGHTED MARKS | **LIGHTED MARKS**

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



* The same abbreviations are used for lights on spar buoys and beacons. The periods, 5s, 10s and 15s, may not always be charted.

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

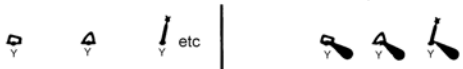
Body black with red band (s)
Topmark: 2 black balls

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

Body red and white stripes
Topmark (if any): red ball

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

Body (shape optional): yellow
Topmark (if any) yellow X



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

Beacon towers are charted: etc (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:

MARITIME SAFETY OFFICE
ATTN: NSS STAFF
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NATIONAL GEOSPATIAL-INTELLIGENCE AGENCY
7500 GEOINT DRIVE
SPRINGFIELD, VA 22150-7500

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

DESCRIPTION

(Lights, Buoys, RACONs, RAMARKs)

Information is tabulated in eight columns as follows:

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

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

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

Italics: Floating aids.

ITALICS CAPITALS: Lightships and LANBYs.

Roman: All other lights not mentioned above.

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

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

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

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

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

Note–Stripes are vertical. Bands are horizontal. The use of the term "diagonal stripes" is the exception.

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

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

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

ABBREVIATIONS

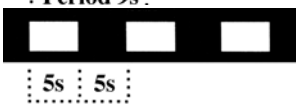
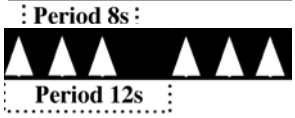
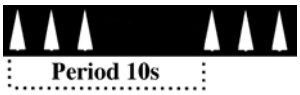
Where the lights of different countries intermingle in the list they are distinguished by the following letters:

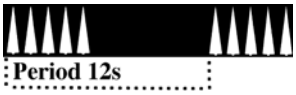
(A.)	Albania	(L.)	Liberia
(Bu.)	Bulgaria	(P.)	Portugal
(E.)	Egypt	(Ro.)	Romania
(F.)	France	(S.)	Spain
(Gr.)	Greece	(T.)	Turkey
(I.)	Italy	(U.K.)	United Kingdom

Other abbreviations:

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

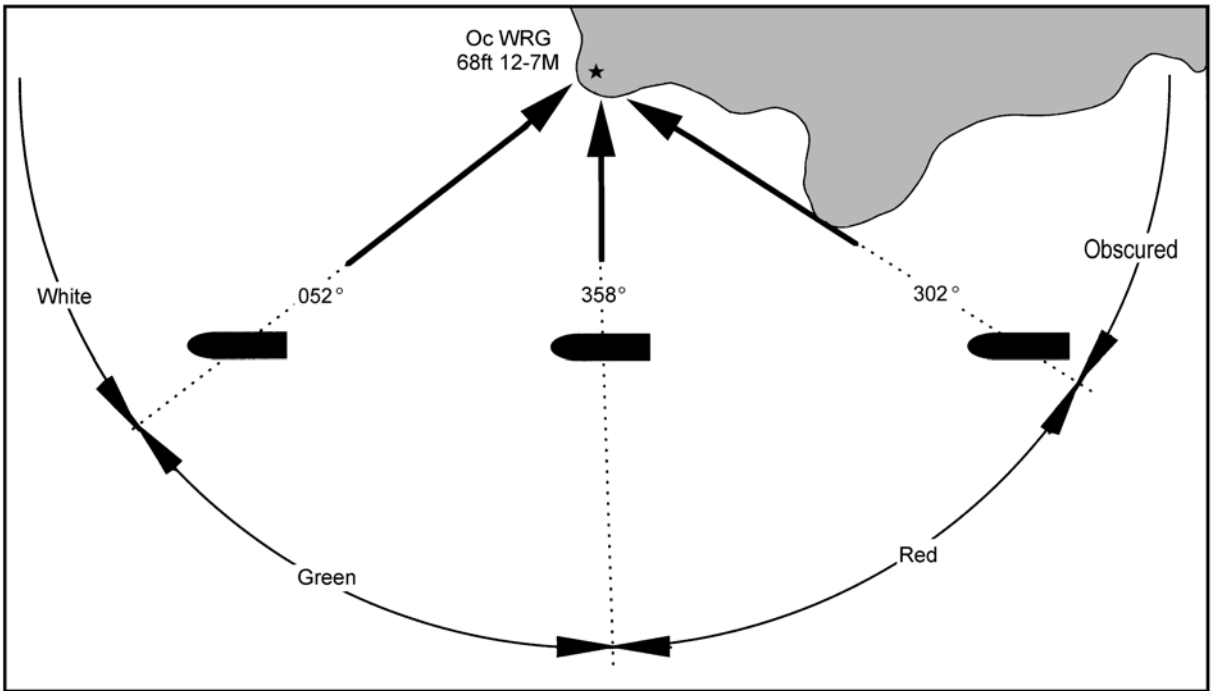
Aeromarine lights—marine-type lights for which part of the beam is deflected to an angle of 10 to 15 degrees above the horizon to facilitate use by aircraft.

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.


Oc WRG
68ft 12-7M
White
052°
358°
302°
Obscured
Green
Red

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)	16.5
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–multipy 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.

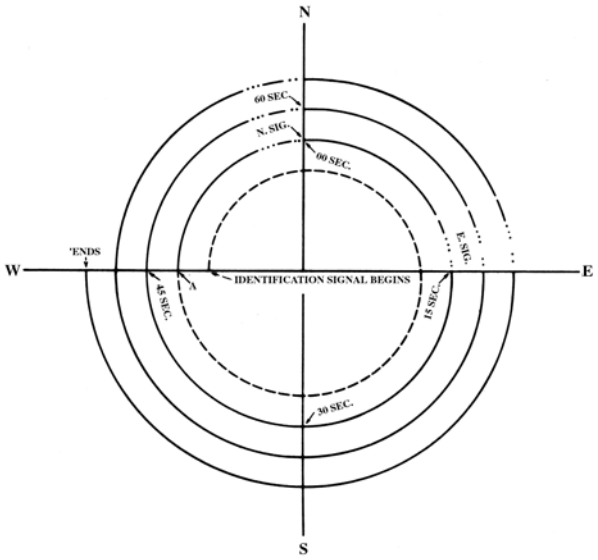
(f) No quadrantal error arises, and no corrections are necessary except as in (c) and (d) above.

(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 refrence 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** dentoes 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° 27.5′ N 5° 07.7′ W	**Fl.(2)W.** period 10s fl. 0.1s, ec. 2.4s fl. 0.1s, ec. 7.4s	230 **70**	**30**	White tower, black bands; 180.	Visible 255°-247°. **Horn:** 2 bl. ev. 120s (bl. 2s, si. 3s, bl. 2s, si. 113s).
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**	**22**	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.W.R.G.**	36 **11**	W. 10 R. 7 G. 7	White tower, green top; 20.	Q.G. 251°-254°, Q.W.-264°, Q.R.-267°.
20 *A 1846*	-Nividic.	48° 26.7′ N 5° 09.1′ W	**V.Q.(9)W.** period 10s	92 **28**	6	Gray octagonal tower; 118. Helicopter platform.	Visible 290°-225°.
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**	10	Gray octagonal tower, red top; 157.	Visible 241°-199°.
28 *A 1852*	-Men-Korn.	48° 28.0′ N 5° 01.3′ 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° 26.2′ 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. **18** R. 14	Gray tower; 134.	W. 019°-248°, R.-019°.
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**	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° 23.8′ N 4° 57.3′ W	**Fl.(3)W.R.G.** period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	19 **6**	W. 9 R. 7 G. 7	Column, hut; 16.	G. 183°-190°, W.-192°, R.-203°.
			Fl.(2)W.R.G. period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	29 **9**	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° 48.4′ 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.	
52 *A 1856*	Aber Ildut.	48° 28.3′ N 4° 45.5′ W	**Oc.(2)W.R.G.** period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	40 **12**	10	White buildings; 16.	G. 078°-081°, W.-085°, R.-088°.
56 *A 1862*	Le Faix.	48° 25.7′ 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° 46.7′ W	**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°. Forms range 007° with 84.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			FRANCE-WEST COAST				
80 *A 1876*	Pointe de Corsen.	48° 24.9′ N 4° 47.6′ W	**Dir.W.R.G.**	108 **33**	W. 12 R. 8 G. 8	White hut, walls; 10.	Q.R. 008°-012°, Q.W.-015°, Q.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 with 76, 88 and 104.
84.1 *A 1873*	Le Conquet.	48° 21.6′ N 4° 47.0′ W	**Fl.G.** period 2.5s	16 **5**	6	Green mast; 13.	
88 *A 1880*	**Lochrist.**	48° 20.6′ N 4° 45.8′ W	**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 tower, red top; 56.	Intensified 135°24′-140°24′. In line with 84.
92 *A 1872*	La Grande Vinotiere.	48° 21.9′ N 4° 48.4′ W	**Fl.R.** period 4s	39 **12**	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**	**24**	White truncated conical tower, red top; 121.	**Radiobeacon.**
			F.W.	177 **54**	**28**		Intensified 157°30′-159°30′. Forms range 158° with 84.
108 *A 1875*	-Auxiliary, about 54 meters 291° from St. Mathieu.	48° 19.8′ N 4° 46.3′ 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° 19.3′ N 4° 46.6′ W	**Fl.R.** period 4s fl. 1s, ec. 3s	39 **12**	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° 37.7′ 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, building; 46.	W. 299°-028°, R.-090°, W.-268°.
144 *D 0816*	Camaret-Sur-Mer, N. mole extension.	48° 16.9′ N 4° 35.3′ 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° 16.6′ N 4° 35.3′ W	**Fl.(2)R.** period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	29 **9**	5	Red pylon; 26.	
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. **17** R. 13	Gray tower, white on SW. side, red top, attached to smaller white tower, black bands; 85.	W. 070°30′-108°, R.-252°, W.-260°, R.-307°, W.(unintensified)-015°, W.-065°30'.
			Q.W.	98 **30**	**22**		Intensified 067°18′-068°48′. Forms range 068° with 160.
			F.G.				Fog detection light, 420 meters NW.
154 *D 0792*	Roche Mengam, in Goulet de Brest.	48° 20.3′ N 4° 34.6′ W	**Fl.(3)W.R.** period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	33 **10**	W. 9 R. 6	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.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			FRANCE-WEST COAST				
160 *D 0790.1*	**Pointe Du Portzic.**	48° 21.5´ 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. **17** R. 13	Gray octagonal tower; 115.	W. 070°30´-219°, R.-259°, W.-338°, R.-000°, W.-065°30´. Visible W. of Le Goulet 041°-069°.
			Q.W.	177 **54**	**22**		Intensified 065°-071°. In line with 152.
			Q.(6)+L.Fl.W. period 15s	177 **54**	**22**		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	STARBOARD (A) G, tower, topmark; 33.	
178 *D 0796*	--W. breakwater, head.	48° 22.1´ N 4° 29.4´ W	**Q.R.**	33 **10**	6	PORT (A) R, tower, topmark; 30.	
180 *D 0799*	--Range, front.	48° 22.8´ N 4° 29.6´ W	**Q.W.R.G.**	79 **24**	W. 9 R. 6 G. 6	White tower.	G. 334°-342°, W.-346°, R.-024°.
			F.W.		3		Visible 338°-349°. Shown by day.
180.1 *D 0799.1*	---Rear, 100 meters 344° from front.	48° 22.9´ N 4° 29.6´ W	**Q.W.**	105 **32**	9	Building.	Intensified 342°-346°.
			F.W.		3		Visible 338°-349°. Shown by day.
182 *D 0801*	--Jean-Bart Quay Range, front.	48° 22.9´ N 4° 29.9´ W	**Iso.R.** period 5s	30 **9**		White pylon, 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	**Iso.R.** period 5s	52 **16**		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, green triangular daymark point up; 33.	
188 *D 0804*	--W. jetty, head.	48° 22.7´ N 4° 29.1´ W	**Iso.R.** period 4s	33 **10**	6	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, red square daymark; 23.	
196 *D 0803*	--W. jetty, head.	48° 22.8´ N 4° 28.5´ W	**Oc.(2)G.** period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	26 **8**	6	White tower, green top, green triangular daymark point up; 30.	
	POINTE DE L'ILE LONGUE						
200 *D 0814.5*	-Range, front.	48° 18.4´ N 4° 30.1´ W	**F.R.**				Occasional.
200.1 *D 0814.51*	-- Rear, 60 meters 281° from front.	48° 18.4´ N 4° 30.1´ W	**F.R.**				Occasional.
	BAIE DE DOUARNENEZ:						
208 *D 0829*	*-Basse Vielle Buoy.*	48° 08.3´ N 4° 35.7´ W	**Fl.(2)W.** period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	26 **8**	4	ISOLATED DANGER BRB, pillar, topmark.	**Radar reflector.**

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			FRANCE-WEST COAST				
212 *D 0826*	**-Pointe de Morgat.**	48° 13.2´ N 4° 29.8´ 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; 49.	W. 180°-281°, G.-301°, W.-021°, R.-043°.
	-Douarnenez:						
220 *D 0830*	--Ile Tristan.	48° 06.1´ N 4° 20.2´ W	**Fl.(3)W.R.** period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	115 **35**	6	Gray tower, white band, black top; 36.	W. 029°-138°, R.-153°, W.-299°.
224 *D 0831*	--Bassin Nord, N. mole, head.	48° 06.0´ N 4° 19.3´ W	**Fl.(2)G.** period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	30 **9**	6	White and green pylon; 26.	Synchronized with 228.
228 *D 0831.2*	---S. mole, head.	48° 05.9´ N 4° 19.3´ W	**Fl.(2)R.** period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	19 **6**	6	White and red pylon; 16.	Synchronized with 224.
232 *D 0832*	--Rosmeur, mole.	48° 05.9´ N 4° 19.3´ W	**Fl.(3)G.** period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	20 **6**	4	White pylon, green top; 20.	
236 *D 0834*	--Treboul, Epi de Biron.	48° 06.1´ N 4° 20.4´ W	**Q.G.**	23 **7**	6	White metal column, green top; 23.	
240 *D 0836*	**-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 *D 0852*	**-Ar-Men.**	48° 03.0´ N 4° 59.9´ 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**	**21**	White tower, dark base, black top; 121.	
252 *D 0856*	**-Ile de Sein.**	48° 02.6´ N 4° 52.0´ 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**	**28**	White truncated conical tower, black top; 167.	
			Dir.W.R.G.		W. 8 R. 6 G. 6		Q.G. 267°-269°, Q.W.-271°, Q.R.-275°.
256 *D 0860*	-Men-Brial.	48° 02.3´ N 4° 50.9´ 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°.
	RAZ DE SEIN:						
268 *D 0862*	-Le Chat.	48° 01.5´ N 4° 48.9´ W	**Fl.(2)W.R.G.** period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	90 **27**	W. 9 R. 6 G. 6	Tower, two triangular daymarks points down; 102.	G. 096°-215°, W.-230°, R.-271°, G.-286°, R.-096°. **Radar reflector.**
272 *D 0870*	**-La Vielle.**	48° 02.4´ 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. **15** R. 11 G. 11	Gray square tower, black top; 88.	W. 290°-298°, R.-325°, W.-355°, G.-017°, W.-035°, G.-105°, W.-123°, R.-158°, W.-205°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			FRANCE-WEST COAST				
274	*Chaussee de Sein Buoy.*	48° 03.8′ N 5° 07.7′ W	**V.Q.(9)W.** period 10s	30 **9**	4	W. CARDINAL YBY, pillar, topmark.	**AIS** (MMSI No 992271305). **Whistle.** **Radar reflector.**
	RACON		**O(– – –)** period 120s		10		(3cm).
276 *D 0866*	--Tevennec.	48° 04.3′ N 4° 47.7′ W	**Q.W.R.**	92 **28**	W. 9 R. 6	White square tower, dwelling; 49.	R. 345°-090°, W.-345°.
			Fl.W. period 4s fl. 1s, ec. 3s	79 **24**	12		Intensified 324°-332°. Reserve light.
284 *D 0872*	La Plate.	48° 02.4′ N 4° 45.6′ W	**Q.(9)W.** period 15s	56 **17**	6	W. CARDINAL YBY, tower, topmark; 75.	
	AUDIERNE:						
288 *D 0877.1*	-Kergadec.	48° 01.0′ N 4° 32.8′ W	**Q.W.R.G.**	141 **43**	W. 12 R. 9 G. 9	White octagonal tower, red top; 49.	G. 000°-005°18′, W.-006°42′, R.-017°.
292 *D 0875*	-Jetee de Ste. Evette, head.	48° 00.3′ N 4° 33.1′ W	**Fl.(2)R.** period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	7 **2**	4	Red cylindrical structure; 7.	Visible 090°-000°.
296 *D 0877*	-Raoulic, jetty, head.	48° 00.5′ N 4° 32.5′ W	**Fl.(3)R.G.** period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	36 **11**	6	White tower; 36.	G. 034°-085°, R.-034°.
300 *D 0874*	-Pointe de Lervily.	48° 00.0′ N 4° 33.9′ W	**Fl.W.R.** period 4s	66 **20**	W. 14 R. 11	White tower, red top; 39.	W. 236°-269°, R.-294°, W.-087°, R.-109°.
304 *D 0884*	Pors-Poulhan, entrance, W. side.	47° 59.1′ N 4° 27.9′ W	**Q.R.**	45 **14**	6	White square tower, red top; 20.	
308 *D 0890*	**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.	
	SAINT GUENOLE:						
312 *D 0886*	-Groumilli Range, front.	47° 48.1′ N 4° 22.7′ W	**Q.G.**	30 **9**	7	Black column, white bands, orange square daymark; 36.	Visible 119°30′-126°30′.
316 *D 0886.1*	--Rear, 300 meters 123° from front.	47° 48.0′ N 4° 22.5′ W	**Q.G.**	43 **13**	7	Black column, white bands, orange square daymark; 46.	Visible 119°30′-126°30′. Synchronized with front.
328 *D 0887*	-Range, front.	47° 48.7′ N 4° 22.8′ W	**V.Q.W.**	16 **5**	2	White metal column, green top, platform.	
332 *D 0887.1*	--Rear, 320 meters 055°24′ from front.	47° 48.8′ N 4° 22.6′ W	**V.Q.W.**	49 **15**	4	White metal post, green top, platform.	Visible 040°-070°.
336 *D 0893*	-Scoedec.	47° 48.4′ N 4° 23.2′ W	**Fl.(2)G.** period 6s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 3.5s	20 **6**	3	Green tower; 23.	
344 *D 0892*	La Menhir, Penmarc'h, W. extremity of rocks.	47° 47.8′ N 4° 24.0′ 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 *D 0894*	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; 26.	G. 063°-068°, R.-271°, W.-285°, R.-298°, G.-340°, R.-063°. Fl.R. and Fl.G. lights mark channel.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
	FRANCE-WEST COAST						
	GUILVINEC:						
364 *D 0896*	-Mole de Lechiagat, entrance Range, front.	47° 47.4´ N 4° 17.1´ W	**Q.W.**	23 **7**	8	White pylon; 20.	Visible 233°-066°.
366 *D 0896.05*	- -Middle, 210 meters 053° from front.	47° 47.5´ N 4° 16.9´ W	**Q.W.G.**	39 **12**	W. 14 G. 11	White pylon, red square daymark; 36.	W. 006°-293°, G.-006°. Synchronized with front.
368 *D 0896.1*	- -Rear, 1043 meters 053° from front.	47° 47.8´ N 4° 16.4´ W	**Q.W.**	85 **26**	8	White rectangular tower, red stripe, red square daymark; 82.	Visible 051°30′-054°30′. Synchronized with front.
372 *D 0899*	-Mole de Lechiagat, head.	47° 47.5´ N 4° 17.2´ W	**Fl.G.** period 4s fl. 1s, ec. 3s	16 **5**	6	White hut, green top; 10.	Fl.(2)G. shown at head of spur.
376 *D 0900*	-Mole de Guilvinec.	47° 47.5´ N 4° 17.1´ W	**Fl.R.** period 4s fl. 1s, ec. 3s	36 **11**	8	White tower, red top; 33.	Fl.(2)R. shown at head of spur.
377 *D 0901*	-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; 13.	
380 *D 0898*	-Lost-Moan.	47° 47.0´ N 4° 16.8´ 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 *D 0899.2*	-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 *D 0902*	Lesconil, on Men-ar-Groas Rock.	47° 47.8´ N 4° 12.7´ 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 *D 0904*	-E. breakwater, head.	47° 47.7´ N 4° 12.7´ W	**Q.G.**	16 **5**	5	Green tower; 13.	
393 *D 0904.5*	- -Mole, head.	47° 47.7´ N 4° 12.6´ W	**Oc.R.** period 4s	16 **5**	6	White metal pylon, red top; 13.	
396	*Karek-Greis Whistle Buoy.*	47° 46.1´ N 4° 11.4´ W	**Q.(3)W.** period 10s	23 **7**	4	E. CARDINAL BYB, buoy, topmark.	
	RIVIERE L'ABBE:						
400 *D 0906*	**-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 tower, red top; 43.	W. 115°-257°, G.-284°, W.-295°, R.-318°, W.-328°, R.-025°.
408 *D 0909*	-Karek-Saoz.	47° 50.0´ N 4° 09.4´ W	**Fl.R.** period 2.5s fl. 0.5s, ec. 2s	10 **3**	1	Red truncated tower; 33.	**Radar reflector.**
412 *D 0910*	-Le Blas.	47° 50.3´ N 4° 10.2´ 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 *D 0915*	-Pointe du Toulgoet.	47° 52.3´ N 4° 06.9´ W	**Fl.R.** period 2.5s fl. 0.5s, ec. 2s	7 **2**	1	Red metal mast; 13.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			FRANCE-WEST COAST				
	BENODET:						
420 *D 0914.1*	-Pointe de Combrit, Odet River entrance, W. side.	47° 51.8′ N 4° 06.8′ W	**Oc.(2)W.R.** period 6s lt. 1s, ec. 1s lt. 3s, ec. 1s	62 **19**	W. 12 R. 9	White square tower, gray corners; 56.	R. 017°-325°, W.-017°. In line 000°30′ with 428.
424 *D 0913.9*	-Pointe du Coq Range, front.	47° 52.3′ N 4° 06.7′ W	**Fl.(3)G.** period 12s fl. 1.5s, ec. 1.5s fl. 1.5s, ec. 1.5s fl. 1.5s, ec. 4.5s	36 **11**	10	White tower, green stripe; 43.	Intensified 344°30′-346°30′.
428 *D 0914*	--La Pyramide, common rear, about 348 meters 345°30′ from Pointe du Coq front.	47° 52.5′ N 4° 06.8′ W	**Fl.(3)W.** period 12s fl. 1.5s, ec. 1.5s fl. 1.5s, ec. 1.5s fl. 1.5s, ec. 4.5s	157 **48**	14	White truncated conical tower, green top; 128.	Visible 338°-016°. Synchronized with front.
436 *D 0918*	**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, white dwelling; 56.	R. 292°-035°, W.-050°, G.-063°, W.-081°, R.-141°, W.-292°. **AIS** (MMSI No 992271013).
442 *D 0923.2*	-La Pie.	47° 43.7′ N 3° 59.8′ W	**Fl.(2)W.** period 6s	30 **9**	3	ISOLATED DANGER BRB, beacon, topmark.	
444 *D 0922*	**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.	**AIS** (MMSI No 992271014).
			Q.W.	112 **34**	11		Visible 295°-315°.
460 *D 0925*	Cap Coz, shelter mole, head.	47° 53.5′ N 3° 58.3′ 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, white hut, red lantern; 10.	R. 346°-335°, G.-340°, W.-346°.
464 *D 0925.4*	--Jetty extension, E. side.	47° 53.6′ N 3° 58.4′ W	**Fl.G.** period 4s fl. 1s, ec. 3s	26 **8**	1	Gray post, green lantern, white hut; 23.	
	CONCARNEAU:						
468 *D 0936*	-Le Cochon.	47° 51.4′ 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 *D 0928*	-La Croix Entrance Range, front.	47° 52.1′ N 3° 55.1′ W	**Q.W.**	46 **14**	13	White and red tower; 39.	Visible 006°30′-093°.
476 *D 0930*	**--Beuzec,** rear, 2490 meters 028°30′ from front.	47° 53.3′ N 3° 54.1′ W	**Q.W.**	285 **87**	**23**	Belfry; 105.	Intensified 026°30′-030°30′. Synchronized with front.
484 *D 0934*	-W. side of Lanriec Passage.	47° 52.3′ N 3° 54.8′ W	**Q.W.R.**	13 **4**	W. 9 R. 6	Red tower; 16.	R. 209°-354°, W.-007°, R.-018°. Passage marked by lighted beacons.
486 *D 0935*	-Yacht Harbor.	47° 52.3′ N 3° 54.7′ W	**Fl.(4)R.** period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	10 **3**	1	PORT (A) R, post, topmark; 13.	Visible 018°-340°.
488 *D 0933*	-La Medee.	47° 52.0′ N 3° 54.8′ W	**Fl.(3)R.** period 12s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 6.5s	30 **9**	4	Red tower; 52.	
492 *D 0932*	Lanriec, E. of Concarneau entrance.	47° 52.0′ N 3° 54.6′ W	**Q.G.**	43 **13**	8	White gable, green panel; 26.	Visible 063°-078°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			FRANCE-WEST COAST				
496 *D 0940*	Baie de Pouldohan.	47° 51.0´ N 3° 53.7´ W	**Fl.G.** period 4s fl. 1s, ec. 3s	20 **6**	8	White square tower, green top, green base; 20.	Visible 053°-065°.
498 *D 0942*	Dragon Rock.	47° 47.9´ N 3° 53.4´ W	**V.Q.(9)W.** period 10s		6	W. CARDINAL YBY, tower, topmark; 36.	
500 *D 0944*	Trevignon, breakwater.	47° 47.6´ N 3° 51.3´ W	**Fl.(2)W.R.G.** period 6s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 3.5s	35 **11**	W. 10 R. 7 G. 7	White square tower, green top; 26.	W. 004°-051°, G.-085°, W.-092°, R.-127°, R. 322°-351°.
	TREVIGNON:						
504 *D 0945*	-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 *D 0946*	Port-Manech, (Pointe de Begar-Vechen).	47° 48.0´ N 3° 44.3´ 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 tower, red top; 33.	W. 140°-296°, G.-303°, W.-311, R.-328°, W.-050°, W.(unintensified)-140°.
512 *D 0950*	Brigneau.	47° 46.8´ 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 metal column, red top; 23.	G. 280°-329°, W.-339°, R.-034°.
516 *D 0952*	Merrien, port, entrance, W. side.	47° 47.0´ N 3° 39.0´ W	**Q.R.**	85 **26**	7	White square tower, red top; 25.	Visible 004°-009°.
520 *D 0954*	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, green top; 49.	G. 305°-314°, W.-305°.
524 *D 0954.1*	-Rear, 326 meters 013°48′ from front.	47° 46.5´ N 3° 36.5´ W	**Oc.(3)R.** period 12s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 4.5s, ec. 1.5s	88 **27**	9	White tower, red band, red top; 46.	Synchronized with front.
526 *D 0961*	Lomener.	47° 42.3´ N 3° 25.5´ W	**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 *D 0960*	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	White truncated tower, red top; 26.	R. 096°30′-112°30′, G.-132°, R.-302°, W.-096°30′. **AIS** (MMSI No 992271009).
	ILE DE GROIX:						
532 *D 0962*	**-Pen-Men.**	47° 38.8´ N 3° 30.6´ 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 *D 0964*	-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 tower, red top; 33.	Visible 112°-226°. Synchronized with 540.
540 *D 0966*	--N. mole, head.	47° 38.7´ N 3° 26.7´ W	**Fl.(2)G.** period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	39 **12**	7	White tower, green top; 33.	Synchronized with 536.
544 *D 0968*	-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	White structure, red lantern; 13.	W. 169°-336°, R.-345°, W.-353°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			FRANCE-WEST COAST				
548 *D 0970*	**-Pointe des Chats.**	47° 37.2′ N 3° 25.3′ W	**Fl.R.** period 5s fl. 0.4s, ec. 4.6s	52 **16**	**19**	White square tower, dwelling; 49.	
	LORIENT AND PORT LOUIS:						
556 *D 0974*	-Les Trois Pierres.	47° 41.5′ N 3° 22.5′ W	**Q.R.G.**	36 **11**	6	White octagonal tower, black bands, black top; 59.	G. 060°-196°, R.-002°.
560 *D 0975*	-Ile aux Souris.	47° 42.2′ N 3° 21.5′ W	**Q.W.G.**	20 **6**	W. 3 G. 2	Green tripod, 20.	W. 041°30′-043°30′, G.-041°30′.
565 *D 0971*	-Les Soeurs Range, front.	47° 42.1′ N 3° 21.8′ W	**Q.W.**	36 **11**	13	Red tower, white bands.	Intensified 042°30′-058°30′, reduced range 4M 058°30′-042°30′.
565.1 *D 0971.1*	**--Port-Louis,** rear, 740 meters 057° from front.	47° 42.3′ N 3° 21.3′ W	**Q.W.**	72 **22**	**18**	White pyramidal pylon, red bands.	
576 *D 0978*	-Passe de la Citadelle Range, front.	47° 43.5′ N 3° 21.6′ W	**Q.G.**	26 **8**	13	White tower, green top; 46.	Intensified 014°30′-017°30′.
580 *D 0978.1*	--Rear, 306 meters 016°30′ from front.	47° 43.6′ N 3° 21.6′ W	**Q.G.**	46 **14**	13	White tower, green top; 62.	Intensified 014°30′-017°30′. Synchronized with front.
582 *D 0996.6*	-Ste. Catherine.	47° 43.5′ N 3° 21.1′ W	**Q.G.**	16 **5**	2	STARBOARD (A) G, post, topmark; 26.	
584 *D 0985*	-Port Louis, jetty, NE. head.	47° 42.7′ N 3° 21.4′ W	**Fl.G.** period 2.5s fl. 0.5s, ec. 2s	23 **7**	4	White truncated tower, green top; 23.	Visible 043°-301°.
588 *D 0984*	-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; 36.	Visible 009°-193°.
592 *D 0982*	-La Petite Jument, channel, W. side.	47° 42.6′ N 3° 22.1′ W	**Oc.R.** period 4s lt. 3s, ec. 1s	16 **5**	6	Red tower; 39.	Visible 182°-024°.
596 *D 0986*	-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.	
598 *D 0996.3*	-Marina, E. breakwater, head.	47° 43.1′ N 3° 22.0′ W	**Q.(6)+L.Fl.W.** period 15s	13 **4**	2	S. CARDINAL YB, beacon, topmark.	
600 *D 0990*	**-Keroman** Range, front.	47° 43.6′ N 3° 22.0′ W	**Oc.(2)R.** period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	82 **25**	**15**	White hut, red bands; 16.	Intensified 349°-351°.
604 *D 0990.1*	--Rear, about 91 meters 350° from front.	47° 43.7′ N 3° 22.0′ W	**Oc.(2)R.** period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	102 **31**	**15**	Gray pylon, red top, red daymark, white bands; 39.	Intensified 349°-351°. Synchronized with front.
608 *D 0994*	-Keroman, fishing port, S.E. mole, head.	47° 43.6′ N 3° 21.9′ W	**Fl.R.G.** period 4s fl. 1s, ec. 3s	23 **7**	6	White truncated tower, green top; 20.	G. 000°-235°, R.-000°. 2 Q.G. shown in line 350° 260 meters W.
612 *D 0996*	**-Kernevel Range,** front.	47° 43.0′ N 3° 22.3′ W	**Q.R.**	33 **10**	**15**	Red and white pylon, red trapezoidal daymark; 33.	Intensified 215°-219°.
616 *D 0996.1*	--Rear, about 290 meters 217° from front.	47° 42.9′ N 3° 22.5′ W	**Q.R.**	59 **18**	**15**	White and red square tower; 52.	Intensified 215°-219°. Synchronized with front.
618 *D 0997*	-Pengarne.	47° 43.9′ N 3° 21.2′ W	**Fl.G.** period 2.5s fl. 0.5s, ec. 2s	10 **3**	3	Green tower; 20.	
620 *D 0999*	-RoRo pier.	47° 44.4′ N 3° 21.0′ W	**Q.R.**	23 **7**	2	Red metal structure; 66.	
624 *D 0998*	-Pointe de l'Esperance.	47° 44.5′ N 3° 20.7′ W	**Dir.W.R.G.**	26 **8**	W. 10 R. 8 G. 8	White tower, green top; 23.	Q.G. 034°12′-036°42′, Q.W.-037°12′, Q.R.-047°12′.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			FRANCE-WEST COAST				
629 *D 1003*	-Citadelle of Port Louis.	47° 42.7´ N 3° 21.8´ W	**Dir.W.R.G.**	46 **14**	W. 7 R. 5 G. 5		Q.G.168°-169°30′, Q.W.-170°30′, Q.R.-173°30′.
632 *D 1012*	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 pylon; 36.	W. 022°-064°, R.-123°, W.-330°, G.-022°.
636 *D 1014*	Plateau de Birvideaux.	47° 29.2´ N 3° 17.5´ W	**Fl.(2)W.** period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	79 **24**	10	ISOLATED DANGER BRB, tower, topmark; 118.	**AIS** (MMSI No 992271028).
	BELLE ILE:						
640 *D 1032*	**-Anse de Goulphar.**	47° 18.6´ N 3° 13.6´ W	**Fl.(2)W.** period 10s fl. 0.1s, ec. 2.4s fl. 0.1s, ec. 7.4s	285 **87**	**27**	Gray tower, red lantern; 171.	
644 *D 1030*	**-Pointe des Poulains.**	47° 23.3´ N 3° 15.1´ W	**Fl.W.** period 5s fl. 0.4s, ec. 4.6s	111 **34**	**23**	White square tower, dwelling, red lantern; 59.	Visible 023°-291°.
648 *D 1044*	-Sauzon.	47° 22.4´ N 3° 13.1´ W	**Q.G.**	30 **9**	5	White tower, green top; 30.	Visible 194°-045°.
652 *D 1045*	--NW. jetty, head.	47° 22.5´ N 3° 13.0´ W	**Fl.G.** period 4s fl. 1s, ec. 3s	26 **8**	4	White truncated conical tower, green top; 16.	Visible 190°-078°.
656 *D 1046*	--SE. jetty, head.	47° 22.5´ N 3° 13.0´ W	**Fl.R.** period 4s fl. 1s, ec. 3s	26 **8**	4	White truncated conical tower, red top; 16.	Visible 315°-272°.
660 *D 1042*	-Le Palais, N. jetty, head.	47° 20.8´ N 3° 09.0´ W	**Q.G.**	36 **11**	7	White tower, green top; 33.	
664 *D 1040*	--S. jetty, head.	47° 20.8´ N 3° 09.1´ W	**Q.R.**	36 **11**	7	White tower, red lantern; 33.	
668 *D 1036*	**-Pointe de Kerdonis.**	47° 18.6´ N 3° 03.6´ W	**Fl.(3)R.** period 15s fl. 0.4s, ec. 2.6s fl. 0.4s, ec. 2.6s fl. 0.4s, ec. 8.6s	161 **49**	**15**	White square tower, dwelling, red top; 46.	Visible 155°-225° and 320°-004°.
672 *D 1016*	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°, W. 246°-252°, W. 291°-297°, G.-340°, W.-017°.
676 *D 1015*	-Entrance Range, front.	47° 28.6´ N 3° 07.2´ W	**Q.G.**	16 **5**	**16**	White truncated conical tower, black band, black top; 43.	Intensified 005°-008°. **AIS** (MMSI No 992271029).
680 *D 1015.1*	--Rear, about 230 meters 006°30′ from front.	47° 28.8´ N 3° 07.2´ W	**Q.G.**	42 **13**	**17**	White truncated conical tower, black band, black top; 36.	Intensified 005°-008°. Synchronized with front. **AIS** (MMSI No 992271030).
684 *D 1017*	-Breakwater, S. entrance.	47° 28.5´ N 3° 07.3´ W	**Oc.(2)R.** period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	30 **9**	7	White tower, red lantern; 16.	
686 *D 1015.5*	--S.	47° 28.3´ N 3° 07.3´ W	**Fl.R.** period 2.5s fl. 0.5s, ec. 2s	20 **6**	2	Red beacon; 33.	Visible 175°-047°.
688 *D 1018*	-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 *D 1022*	**-La Teignouse.**	47° 27.4´ N 3° 02.8´ W	**Fl.W.R.** period 4s fl. 1s, ec. 3s	66 **20**	W. **15** R. 11	White tower, red top; 66.	W. 033°-039°, R.-033°. **AIS** (MMSI No 992271007).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			FRANCE-WEST COAST				
720 *D 1082*	Ile Houat, St. Gildas, on N. mole.	47° 23.6´ N 2° 57.3´ W	**Fl.(2)W.G.** period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	26 **8**	W. 9 G. 6	White truncated tower, green top; 16.	W. 168°-198°, G.-210°, W.-240°, G.-168°.
724 *D 1084*	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 truncated tower, green top; 23.	W. 143°-163°, G.-183°, W.-194°, G.-143°.
728 *D 1086*	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 *D 1026.2*	-New breakwater, head.	47° 29.4´ N 3° 05.9´ 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 *D 1026*	-Old breakwater, head.	47° 29.3´ N 3° 06.0´ W	**Fl.R.** period 4s fl. 1s, ec. 3s	33 **10**	5	White truncated tower, red top; 23.	Visible 322°-206°.
740 *D 1026.4*	-Pier, NW. side of entrance.	47° 29.3´ N 3° 06.0´ W	**Fl.G.** period 2.5s fl. 0.5s, ec. 2s	30 **9**	6	White structure, green top; 30.	
	CRACH:						
752 *D 1050*	-Entrance.	47° 34.1´ N 3° 00.4´ W	**Q.W.R.G.**	36 **11**	W. 10 R. 7 G. 7	White truncated tower, green top; 20.	G. 321°-345°, W.-013°30′, R.-080°.
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 **9**	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	**Q.W.R.**	20 **6**	W. 9 R. 6	White tower, red top; 20.	R. 090°-293°30′, W.-300°30′, R.-329°. 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 tower, dwelling; 69.	W. 155°-220°, G. 317°-359°, W.-015°, R.-105°.
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; 23.	
772	*Plateau de la Recherche.*	47° 25.6´ N 2° 50.4´ W	**Q.(9)W.** period 15s	16 **5**	3	W. CARDINAL YBY, pillar, topmark.	
776 *D 1056*	Saint Jacques en Sarzeau, mole, head.	47° 29.2´ N 2° 47.4´ 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° 30.0´ 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 metal column, green top, fort; 20.	W. 335°-090°, G.-272°, W.-285°, R.-335°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
	FRANCE-WEST COAST						
	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° 30.1´ W	**Oc.(2)W.R.G.** period 6s lt. 1s, ec. 1s lt. 3s, ec. 1s	85 **26**	W. **15** R. 11 G. 11	Red tower, white bands; 59.	R. 292°30′-025°, G.-052°, W.-060°, R.-138°, G.-180°.
794 *D 1062.5*	-Basse de Kenoyal.	47° 30.4´ N 2° 32.6´ W	**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	White square tower, green top; 16.	
808 *D 1072*	Mesquer, jetty, inner end.	47° 25.3´ N 2° 28.0´ 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 truncated tower; 26.	R. 066°-148°, G.-194°, W.-201°, R.-221°. **Siren:** (occasional) 1 bl. ev. 120s (bl. 5s, si. 115s).
	PLATEAU DU FOUR:						
820 *D 1080*	**-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.	**AIS** (MMSI No 992271016).
824	*-Bonen du Four* Whistle Buoy.	47° 18.5´ N 2° 39.3´ W	**Q.W.**	23 **7**	3	N. CARDINAL BY, pillar, topmark.	**Radar reflector.**
828	*-Basse Capella* Whistle Buoy.	47° 15.7´ N 2° 44.8´ W	**Q.(9)W.** period 15s	23 **7**	3	W. CARDINAL YBY, pillar, topmark.	**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	23 **7**	4	S. CARDINAL YB, pillar, topmark.	**Radar reflector.**
	LA TURBALLE:						
844 *D 1076*	-Jetee Ouest (Garlahy), head.	47° 20.7´ N 2° 30.9´ 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 column, red top; 36.	W. 315°-060°, R.-315°.
848 *D 1075.8*	-Entrance Range, front.	47° 20.8´ N 2° 30.9´ W	**Iso.R.** period 4s	36 **11**	3	Mast, orange top; 16.	Intensified 004°-009°.
852 *D 1075.81*	- -Rear, 275 meters 006°30′ from front.	47° 21.0´ N 2° 30.8´ W	**Iso.R.** period 4s	62 **19**	3	Pylon, orange top; 39.	Intensified 004°-009°.
856 *D 1078*	-Dique Sud (Tourlandroux).	47° 20.8´ N 2° 30.9´ W	**Fl.G.** period 4s fl. 1s, ec. 3s	13 **4**	2	Green pole.	
	LE CROISIC:						
860 *D 1088*	-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 truncated tower, green top; 39.	G. 042°-093°, W.-145°, G.-345°.
862 *D 1091*	-Basso Hergo.	47° 18.6´ N 2° 31.7´ W	**Fl.G.** period 2.5s fl. 0.5s, ec. 2s	16 **5**	2	STARBOARD (A) G, tower, topmark; 39.	**Radar reflector.**

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			FRANCE-WEST COAST				
864 *D 1094*	-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 pylon; 26.	
868 *D 1090*	-Near beach Range, front.	47° 18.0′ N 2° 31.0′ W	**Q.W.**	33 **10**	13	White pylon, orange daymark; 39.	Intensified 154°-158°.
872 *D 1090.1*	--Rear, 116 meters 155°30′ from front.	47° 17.9′ N 2° 31.0′ W	**Q.W.**	46 **14**	13	White pylon, green top, orange daymark; 49.	Intensified 154°-158°. Synchronized with front. 2 Q.G. lights in range 174° shown inside entrance.
876 *D 1093*	-Range, front.	47° 17.9′ N 2° 30.8′ W	**Q.R.**	20 **6**	8	White pylon, red top, red and white checkered rectangular daymark; 20.	Intensified 125°30′-143°30′.
880 *D 1093.1*	--Rear, 52 meters 134°30′ from front.	47° 17.9′ N 2° 30.8′ W	**Q.R.**	33 **10**	8	White pylon, red top, red and white checkered retangular daymark; 33.	Intensified 125°30′-143°30′. Synchronized with front.
	ESTUAIRE DE LA LOIRE:						
884 *D 1098*	-Le Pouliguen, jetty, head.	47° 16.4′ N 2° 25.4′ W	**Q.R.**	43 **13**	9	White column, red lantern; 49.	Visible 171°-081°.
888 *D 1100*	--Petit Impairs Tower.	47° 16.0′ N 2° 24.6′ W	**Fl.(3)G.** period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	20 **6**	2	Green metal pylon, hut; 26.	
892 *D 1102*	-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 truncated tower, green top; 33.	G. 303°-081°, W.-084°, R.-180°.
896 *D 1096*	**-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°. **AIS** (MMSI No 992271020).
912 *D 1150*	-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, white house, green top; 56.	R. 264°-308°, G.-078°, W.-088°, R.-174°, W.-180°, G.-264°. **AIS** (MMSI No 992271017).
916 *D 1105.5*	-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 metal structure, green top; 20.	G. 188°-124°, W.-138°, G.-183°, W.-188°.
920 *D 1105*	-Saint Michel-Chef-Chef, Port de Comberge, Jetee 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.-123°.
924 *D 1152*	**-Ile du Pilier.**	47° 02.6′ N 2° 21.6′ 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**	Gray pyramidal tower; 112.	**AIS** (MMSI No 992271019).
	-Auxiliary light.		**Q.R.**	33 **10**	11		Visible 321°-034°.
928	*-Buoy S.N.1.*	47° 00.1′ N 2° 39.8′ W	**L.Fl.W.** period 10s fl. 3s, ec. 7s	23 **7**	4	SAFE WATER RW, pillar, topmark.	**AIS** (MMSI No 992271002).
	-RACON		**Z(– – • •)**				(3cm).
944 *D 1104*	-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 truncated tower, green lantern; 89.	G. 020°-054°, W.-062°, R.-092°, W.-111°, R.-310°, W.-020°. **AIS** (MMSI No 992271026).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			FRANCE-WEST COAST				
946	*-La Couronnee Lightbuoy.*	47° 07.6´ N 2° 20.1´ W	**Q.G.**			STARBOARD (A) G, pillar, topmark.	**Radar reflector.**
	-RACON		**(• • • • • • •)**		3		
948 *D 1106*	**-Portce** Range, front.	47° 14.6´ N 2° 15.4´ W	**Q.W.**	20 **6**	**22**	White column; 75.	Intensified 024°42′-026°12′. **AIS** (MMSI No 992271021).
952 *D 1106.1*	--Rear, 1,350 meters 025°30′ from front.	47° 15.2´ N 2° 15.0´ W	**Q.W.**	118 **36**	**24**	White tower, white rectangular daymark; 62.	Intensified 024°-027°. Shown 24 hours. Synchronized with front. **AIS** (MMSI No 992271023).
956 *D 1114*	-Pointe d'Aiguillon.	47° 14.5´ 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°, W. 297°-300°, R.-327°, W.-023°, R. 027°-069°. **AIS** (MMSI No 992271018).
960 *D 1104.4*	-Le Pointeau, Digue Sud, head.	47° 14.0´ N 2° 11.0´ 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 *D 1104.2*	-Pointe de Mindin.	47° 16.2´ N 2° 10.2´ W	**Fl.G.** period 2.5s fl. 0.5s, ec. 2s	20 **6**	3	White pylon.	
964 *D 1116*	--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 truncated tower, red top; 46.	
968 *D 1118*	-Les Morees, Banc des Morees, NE. point.	47° 15.0´ N 2° 13.0´ W	**Fl.(3)W.R.** period 12s	39 **12**	W. 6 R. 4	Green truncated tower; 56.	R. 300°-058°, W.-224°.
	-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 tower, red top; 33.	Synchronized with 976.
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 tower, green top; 33.	Synchronized with 972. 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° 11.8´ W	**Q.(3)W.** period 10s	59 **18**	11	White turret, red top; 56.	Visible 153°30′-063°30′.
982 *D 1127*	--Old ferry dock.	47° 16.4´ N 2° 11.8´ W	**Fl.(2)R.** period 6s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 3.5s	16 **5**	1	Red pile; 30.	
984 *D 1128*	--Old dock entrance.	47° 16.5´ N 2° 11.9´ 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	**F.R.**	66 **20**	**17**	Red beacon, white bands.	Visible 340°-345°. Occasional.
985.1 *D 1128.8*	---Rear, 160 meters 344° from front.	47° 17.1´ N 2° 12.1´ W	**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° 17.1´ N 2° 10.2´ W	**Iso.W.** period 4s	180 **55**			On upstream and downstream side marking center of channel.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			FRANCE-WEST COAST				
992 *D 1130.4*	--Gron.	47° 17.4´ N 2° 10.1´ W	**Iso.R.** period 4s		2	Red column; 10.	
996 *D 1131*	--Le Village, No 1.	47° 17.9´ N 2° 08.7´ W	**Q.R.**	23 **7**	8	Red and white structure; 13.	Visible 225°-135°.
1008 *D 1137*	-Arceau Oil Jetty.	47° 18.4´ N 2° 05.5´ W	**Fl.R.** period 4s fl. 1s, ec. 3s	33 **10**	9	White tower, 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	23 **7**	2	Gray octagonal column, green top, hut; 13.	
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	23 **7**	2	Green octagonal column, hut; 13.	
	-Donges:						
1024 *D 1140*	--Jetty, head.	47° 18.3´ N 2° 04.2´ W	**Fl.(2)R.** period 6s	29 **9**	9	Red metal tower; 26.	Visible 225°-135°.
1028 *D 1142*	-Paimboeuf, mole, head.	47° 17.4´ N 2° 01.9´ 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; 30.	G. 065°-123°, W.-297°.
	BAIE DE BOURGNEUF:						
1031 *D 1154.5*	-Notre Dame.	47° 05.4´ N 2° 08.3´ W	**V.Q.(9)W.** period 10s	23 **7**	3	W. CARDINAL YBY, tower, topmark; 36.	
1032 *D 1156*	-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. 238°-051°, W.-079°, R.-105°.
1036 *D 1156.7*	-Port de Peche, N.	47° 06.9´ N 2° 06.2´ W	**Fl.(2)R.** period 6s	6 **2**	7	White metal structure; 3.	
1040 *D 1156.72*	--South.	47° 06.9´ N 2° 06.2´ W	**Fl.(2)G.** period 6s	6 **2**	7	White metal structure; 3.	
1044 *D 1155.2*	--Yacht basin, SW. jetty, head.	47° 06.5´ 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 column, red top; 30.	
1048 *D 1155*	--SW. jetty, elbow.	47° 06.4´ N 2° 07.0´ W	**Fl.W.** period 2.5s fl. 0.5s, ec. 2s	13 **4**	3	Gray post; 3.	
1052 *D 1155.4*	--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 column, green top; 30.	
1056 *D 1156.6*	-Jetee de Gourmalon.	47° 06.5´ N 2° 06.7´ W	**Fl.(3)G.** period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	13 **4**	7	White metal post, green top; 16.	
1060 *D 1156.8*	-La Bernerie-en-Retz, jetty, head.	47° 04.6´ N 2° 02.3´ W	**Fl.R.** period 2s	13 **4**	5	White post, red top; 10.	
1064 *D 1157*	-Le Collet.	47° 01.8´ N 1° 58.9´ 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. 278°-093°, R.-156°. About 900 meters SW., 2 Q.G. lights form range 118°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			FRANCE-WEST COAST				
1068 *D 1160*	-Etier des Brochets.	46° 59.9´ N 2° 01.8´ W	**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	26 **8**	W. 10 R. 7 G. 7	White tower; 23.	G. 071°-091°, W.-102°30′, R.-116°30′, W.-119°30′, R.-164°30′.
1072 *D 1161*	-Bec de l'Epoids, bay, SE. shore.	46° 56.4´ N 2° 04.5´ W	**Iso.W.R.G.** period 4s	26 **8**	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°.
	ILE DE NOIRMOUTIER:						
1080 *D 1162*	**-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 *D 1164*	-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 *D 1154*	-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, tower, topmark; 59.	
1092 *D 1153*	-Basse du Martroger.	47° 02.6´ N 2° 17.1´ W	**Q.W.R.G.**	36 **11**	W. 9 R. 6 G. 6	N. CARDINAL BY, tower, topmark; 52.	G. 033°-055°, W.-060°, R.-095°, G.-124°, W.-153°, R.-201°, W.-240°, R.-033°.
1096 *D 1166*	-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 hut, green mast; 23.	W. 187°30′-190°, G.-187°30′. 2 Q.W. 7M in line 187°30′ mark entrance to harbor.
1100 *D 1167*	- -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 metal tripod mast; 20.	
1102 *D 1165*	- -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 *D 1165.1*	- - -Rear, 310 meters 187°30′ from front.	47° 01.4´ N 2° 17.9´ W	**Q.W.**	69 **21**	7	Gray post; 49.	Visible 098°-278°.
1104 *D 1168*	-Pointe du Devin, W. side of island.	46° 59.2´ 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 column, hut, green top; 23.	G. 314°-028°, W.-035°, R.-134°.
	GOULET DE FROMENTINE:						
1108	*-Approach Bell Buoy.*	46° 53.1´ N 2° 11.4´ W	**L.Fl.W.** period 10s fl. 3s, ec. 7s	10 **3**	6	SAFE WATER RW, spherical, topmark.	**Radar reflector.**
1112 *D 1170*	-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 *D 1174*	**-Fromentine Bridge,** W. head.	46° 53.5´ N 2° 09.0´ W	**Iso.W.** period 4s	105 **32**	**18**	On center span.	Shown 24 hours. **AIS** (MMSI No 992271033). On upstream and downstream sides marking the center of the channel.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			FRANCE-WEST COAST				
1120 *D 1172*	-Pointe Notre Dame-de Monts.	46° 53.3´ N 2° 08.5´ W	**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°.
1124 *D 1189*	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; 30.	
	ILE D'YEU:						
1128 *D 1176*	-Main.	46° 43.0´ N 2° 22.9´ W	**Fl.W.** period 5s fl. 0.1s, ec. 4.9s	184 **56**	**24**	White square tower, green lantern; 125.	**AIS** (MMSI No 992271031).
1132 *D 1178*	-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°.
1136 *D 1180*	-Joinville (Port-Breton), NW. jetty, head.	46° 43.8´ N 2° 20.8´ 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 four-sided structure, green top.	G. 090°-150°, W.-232°, G.-279°, W.-285°, G.-333°.
1140 *D 1183*	-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 *D 1183.1*	- -Rear, about 85 meters 219° from front.	46° 43.6´ N 2° 20.9´ W	**Q.R.**	52 **16**	6	Metal mast; 49.	Visible 169°-269°.
1144 *D 1184*	-Quai du Canada, head.	46° 43.6´ N 2° 20.8´ W	**Iso.G.** period 4s	23 **7**	6	White truncated tower, green top; 16.	Unintensified 337°-067°.
1148 *D 1186*	**-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.	
1152 *D 1188*	-La Meule, W. side of entrance.	46° 41.6´ N 2° 20.7´ W	**Oc.W.R.G.** period 4s lt. 3s, ec. 1s	30 **9**	W. 9 R. 6 G. 6	Gray tower, red top; 20.	G. 007°30´-018°, W.-027°30´, R.-041°30´.
	SAINT-GILLES-SUR-VIE:						
1160 *D 1190*	**-Croix de Vie Quay** Range, front.	46° 41.5´ N 1° 57.3´ W	**Q.W.**	23 **7**	**15**	White square tower, red top; 23.	Visible 033°30´-053°30´. **AIS** (MMSI No 992271027).
1164 *D 1190.1*	- -Rear, 260 meters 043°42´ from front.	46° 42.0´ N 1° 56.6´ W	**Q.W.**	92 **28**	**15**	White pyramidal tower, red top; 79.	Visible 033°30´-053°30´. **AIS** (MMSI No 992271034). Synchronized with front.
1168 *D 1189.6*	**-Pointe de Grosse Terre.**	46° 41.5´ N 1° 57.9´ 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. **18** R. **15**	White truncated tower; 56.	R. 290°-339°, W. -125°, R.-145°.
1172 *D 1193*	-Jetee de la Garenne.	46° 41.6´ N 1° 57.1´ W	**Fl.G.** period 4s fl. 1s, ec. 3s	26 **8**	6	White structure, green top; 26.	Channel into port marked by lighted buoys.
1176 *D 1191*	-Jetee de Boisvinet.	46° 41.6´ N 1° 57.2´ W	**Fl.R.** period 4s fl. 1s, ec. 3s	26 **8**	6	Red metal column, white hut; 20.	
	LES SABLES-D'OLONNE:						
1180 *D 1196*	**-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°.

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			FRANCE-WEST COAST				
1184 *D 1198*	-Les Barges.	46° 29.7′ N 1° 50.5′ W	**Fl.(2)R.** period 10s fl. 0.1s, ec. 2.4s fl. 0.1s, ec. 7.4s	82 **25**	13	Gray tower; 95.	
1196 *D 1207*	**-L'Estacade** Range, front.	46° 29.4′ N 1° 46.4′ W	**Iso.W.** period 4s	39 **12**	**16**	Metal post; 39.	
1200 *D 1207.1*	- -Rear, 330 meters 032°30′ from front.	46° 29.6′ N 1° 46.2′ W	**Iso.W.** period 4s	108 **33**	**16**	White square tower, white house; 66.	Shown 24 hours. **AIS** (MMSI No 992271024).
1204 *D 1210*	-Entrance Range, front.	46° 29.7′ N 1° 47.7′ W	**Iso.R.** period 4s	20 **6**	9	White hut, red top, red rectangular daymark; 20.	
1208 *D 1210.1*	- -Rear, 65 meters 328°06′ from front.	46° 29.8′ N 1° 47.7′ W	**Iso.R.** period 4s	30 **9**	9	White tower, red lantern, red rectangular daymark; 30.	Visible 324°-330°. Synchronized with front.
1212 *D 1200*	-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 *D 1204*	-Jetee des Sables, head, front.	46° 29.4′ N 1° 47.5′ W	**Q.G.**	36 **11**	8	White truncated tower, green top; 30.	**AIS** (MMSI No 992271032).
1220 *D 1204.1*	-Tour de La Chaume, W. side of entrance, rear 465 meters 320° from front.	46° 29.6′ N 1° 47.7′ W	**Q.W.**	108 **33**	12	Gray square tower; 89.	Synchronized with front. **AIS** (MMSI No 992271022).
1222 *D 1211*	-Bourgenay Range, front.	46° 26.3′ N 1° 40.6′ W	**Q.G.**	30 **9**	7	White tower, green rectangular daymark, white border; 26.	Visible 020°-060°.
1222.1 *D 1211.1*	- -Rear, 162 meters 040° from front.	46° 26.4′ N 1° 40.5′ W	**Q.G.**	62 **19**	7	White pylon, green rectangular daymark, white border; 56.	Visible 010°-070°.
	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 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° 25.6′ W	**Fl.(2)R.** period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	20 **6**	6	Red pole; 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	10 **3**	5	SAFE WATER RW, pillar, topmark.	**Radar reflector.**
1256 *D 1242*	-Port du Plomb, W. mole, head.	46° 12.1′ N 1° 12.2′ W	**Fl.R.** period 4s fl. 1s, ec. 3s	30 **9**	7	White metal 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; 105.	
	ILE DE RE:						
1268 *D 1218*	**-Les Baleines.**	46° 14.7′ 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° 28.6′ W	**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° 30.6′ W	**Q.W.**	16 **5**	9	White hut, red lantern; 20.	
1284 *D 1223.1*	- -Rear, 370 meters 232°30′ from front.	46° 12.6′ N 1° 30.8′ W	**Q.W.**	42 **13**	11	White pylon, green top, black rectangular daymark; 46.	Visible 142°-322°.
1286 *D 1224*	-Les Islattes.	46° 14.0′ N 1° 23.4′ W	**Q.W.**	43 **13**	3	N. CARDINAL BY, tower, topmark.	

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			FRANCE-WEST COAST				
1292 *D 1226*	-St. Martin, 100 meters SE. of entrance to port.	46° 12.4´ 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 truncated tower, red top; 43.	W. 083°-245°, R.-281°, W.-300°.
1296 *D 1228*	--Mole, head.	46° 12.5´ N 1° 21.9´ W	**Fl.G.** period 2.5s fl. 0.5s, ec. 2s	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 tower, 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	White columns, green top, green and white checkered daymark; 26.	Synchronized with front.
1312 *D 1234*	-Pointe de Sablanceaux, pier, head.	46° 09.8´ N 1° 15.2´ W	**V.Q.(3)W.** period 5s	33 **10**	5	E. CARDINAL BYB, post, topmark; 23.	
	PERTUIS D'ANTIOCHE:						
1316 *D 1240*	-Pointe de Chanchardon, Ile de Re, reef, S. side.	46° 09.7´ N 1° 28.4´ W	**Fl.W.R.** period 4s fl. 1s, ec. 3s	49 **15**	W. 9 R. 6	Black octagonal tower, white base; 66.	R. 110°-290°, W.-110°.
1324 *D 1238*	**-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 truncated tower, red top; 102.	W. 057°-094°, R.-104°, W.-342°, R.-057°.
	-La Pallice:						
1328	--**Mole d'Escale,** (Maritime Station).	46° 09.5´ N 1° 14.5´ W	**Q.W.R.G.**	108 **33**	W. **15** R. 11 G. 11	Gray square metal tower; 75.	G. 007°-012°45′, W.-015°15′, R.-029°. Oc.W. 4s 3M by day. In line 014° with 1340.
1332 *D 1244.6*	---NW. angle.	46° 09.8´ N 1° 14.4´ W	**Fl.G.** period 4s fl. 1s, ec. 3s	16 **5**	6	Green round post; 3.	
1336 *D 1244.4*	---SE. angle, on caisson.	46° 09.5´ N 1° 14.4´ W	**Oc.R.** period 4s lt. 3s, ec. 1s	23 **7**	6	Red metal mast; 10.	
1340 *D 1244*	-Oil pier, extremity.	46° 09.4´ N 1° 14.5´ W	**Q.(6)+L.Fl.W.** period 15s	20 **6**	8	S. CARDINAL YB, tower, topmark; 10.	Oc.W. 4s 3M by day. In line 014° with 1328.
1344 *D 1245*	-N. jetty, head.	46° 09.5´ N 1° 13.9´ 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°.
1344.5 *D 1246*	--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. 4.5s, ec. 1.5s	19 **6**	7	Gray masonry structure; 13.	
1345 *D 1247*	-Basin Range, front.	46° 09.5´ N 1° 12.6´ W	**Q.R.**	69 **21**	7	Red structure; 62.	
1345.1 *D 1247.1*	--Rear, 154 meters 085° from front.	46° 09.6´ N 1° 12.5´ W	**Q.R.**	89 **27**	7	White column, red top, red rectangular daymark, white stripe; 95.	Synchronized with front.
1348 *D 1244.8*	-W. jetty, head.	46° 09.3´ N 1° 14.0´ W	**Oc.(2)G.** period 6s lt. 1s, ec. 1s lt. 3s, ec. 1s	42 **13**	9	White structure, green top; 36.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			FRANCE-WEST COAST				
	LA PALLICE:						
1351 *D 1247.5*	-Chef de Baie Fishing Harbor.	46° 08.9´ N 1° 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	33 **10**	W. 10 R. 7 G. 7	White round metal tower, red bands.	G. 096°-101°, W.-103°, R.-108°.
1351.5 *D 1248*	--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 *D 1248.5*	--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 *D 1243*	-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, topmark; 69.	
1360 *D 1253*	- 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	Octagonal tower, metal post; 49.	G. 313°-059°, W.-213°.
1364 *D 1251*	--Entrance Range, front.	46° 09.4´ N 1° 09.1´ W	**Q.W.**	49 **15**	14	White tower, red top, white bands; 46.	Visible 056°-062°. Fl.W. 4s by day.
1368 *D 1251.1*	---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 by day.
1380 *D 1250*	--Tourelle Richelieu.	46° 08.9´ N 1° 10.3´ W	**Fl.R.** period 4s fl. 1s, ec. 3s	33 **10**	6	Red octagonal tower; 56.	
1381 *D 1254*	-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.	
1384 *D 1256*	**-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 white towers, red tops; 56.	W. 118°-103°, R.-118°. One tower for the light, the other as a screen to make N. limit of red sector more pronounced.
1385 *D 1256.3*	-Fort Boyard.	46° 00.0´ N 1° 12.9´ 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 *D 1258*	-Fouras, jetty, head.	45° 59.8´ N 1° 05.8´ W	**Oc.(3+1)W.R.G.** period 12s lt. 1s, ec. 1s lt. 1s, ec. 1s lt. 3s, ec. 1s lt. 3s, ec. 1s	30 **9**	W. 11 R. 7 G. 7	White pylon, green top; 23.	G. 084°-127°, W.-137°, R.-180°, W.-084°.
1390 *D 1259*	--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 *D 1259.1*	---Rear, 75 meters 042°30′ from front.	45° 59.1´ N 1° 05.6´ 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°. Synchronized with front.
1392 *D 1259.4*	-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 tripod, red top; 16.	W. 177°-115°, R.-177°.
1396 *D 1258.5*	-Jetee de la Fumee, head.	46° 00.3´ N 1° 07.1´ W	**Q.G.**	16 **5**	5	Green post; 26.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			FRANCE-WEST COAST				
	-Charente:						
1400 *D 1257*	--First Range, front.	45° 58.0′ N 1° 04.4′ W	**Q.R.**	26 **8**	**19**	White square tower, red top; 30.	Intensified 113°-117°.
1404 *D 1257.1*	---Rear, about 600 meters 115° from front.	45° 57.8′ N 1° 04.0′ W	**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 *D 1264*	--Port des Bargues, second Range, front.	45° 56.9′ N 1° 04.2′ W	**Iso.G.** period 4s	16 **5**	9	White square tower; 20.	Intensified 125°-145°.
1412 *D 1264.1*	---Rear, 490 meters 134°18′ from front.	45° 56.8′ N 1° 03.9′ W	**Iso.G.** period 4s	43 **13**	11	White square tower, black band on W. side, black top; 52.	Intensified 125°-145°. Synchronized with front.
	ILE D'OLERON:						
1416 *D 1272*	-Rocher d'Antioche, Ile D'Oleron, N. shore.	46° 03.9′ N 1° 23.7′ W	**Q.W.**	66 **20**	11	N. CARDINAL BY, tower, topmark; 89.	
1420 *D 1270*	**-Chaissiron.**	46° 02.8′ N 1° 24.6′ W	**Fl.W.** period 10s fl. 0.2s, ec. 9.8s	164 **50**	**28**	White tower, black bands; 151.	
1422 *D 1274*	-Saint-Denis-d'Oleron.	46° 02.1′ N 1° 22.1′ 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°.
1422.5 *D 1274.6*	--S. pier, head.	46° 02.1′ N 1° 22.2′ W	**Fl.(2)R.** period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	30 **9**	6	Square stone hut; 3.	
1423 *D 1274.4*	-Directional light.	46° 01.6′ N 1° 21.9′ W	**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 *D 1276*	-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 tripod, hut, red top; 23.	
1428 *D 1277*	-Tourelle Juliar.	45° 54.1′ N 1° 09.5′ W	**Q.(3)W.G.** period 10s	39 **12**	W. 8 G. 5	E. CARDINAL BYB, tower, topmark; 69.	W. 147°-336°, G.-147°.
1432 *D 1278*	-Chateau Range, front.	45° 53.0′ N 1° 11.5′ W	**Q.R.**	36 **11**	7	White tower, red top, red rectangular daymark; 10.	Visible 191°-087°.
1436 *D 1278.1*	--Rear, about 240 meters 319° from front.	45° 53.1′ N 1° 11.6′ W	**Q.R.**	79 **24**	7	White truncated tower, red top; 66.	Synchronized with front.
1440 *D 1287.5*	-St. Trojan.	45° 50.8′ N 1° 12.4′ W	**Fl.G.** period 2.5s	26 **8**	2	Gray electric post; 26.	Viaduct d'Oleron marked by F.W. light 2 kilometers ENE.
	-La Cotiniere:						
1444 *D 1284*	--Approach.	45° 54.3′ N 1° 18.6′ W	**Oc.W.R.G.** period 4s lt. 3s, ec. 1s	43 **13**	W. 11 R. 9 G. 9	White metal column, white rectangular daymark, black border; 20.	G. 033°-046°, W.-050°, R.-063°.
1448 *D 1285*	--Entrance Range, front.	45° 54.7′ N 1° 19.7′ W	**Oc.(2)W.** period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	20 **6**	13	White tower, red top; 16.	Visible 329°-349°.
1452 *D 1285.1*	---Rear, 425 meters 339°30′ from front.	45° 54.9′ N 1° 19.8′ W	**Oc.(2)W.** period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	46 **14**	12	White pylon, red bands; 33.	Intensified 329°-349°. Synchronized with front.
1456 *D 1286*	--Jetty elbow.	45° 54.8′ N 1° 19.7′ W	**Fl.(2)R.** period 6s	36 **11**	8	White tower, red top; 36.	Unintensified 133°-218°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			FRANCE-WEST COAST				
1460 *D 1286.4*	---Head.	45° 54.6′ N 1° 19.7′ W	**Fl.R.** period 4s fl. 1s, ec. 3s	33 **10**	6	White tower, red top; 33.	
1464 *D 1286.6*	--S. jetty, head.	45° 54.8′ N 1° 19.6′ W	**Fl.(2)G.** period 6s	30 **9**	6	White tower, green top; 26.	
1468 *D 1287*	--Epi du Colombier, E. side of entrance.	45° 54.8′ N 1° 19.7′ W	**Q.(6)+L.Fl.W.** period 15s	20 **6**	2	White tower, two triangular daymarks points down; 16.	
	GIRONDE:						
1476 *D 1290*	**-Pointe de la Coubre.**	45° 41.8′ N 1° 14.0′ W	**Fl.(2)W.** period 10s fl. 0.1s, ec. 2.4s fl. 0.1s, ec. 7.4s	210 **64**	**28**	White truncated conical tower, red top; 213.	
			Q.R.	138 **42**	10		Visible 030°-110°.
1480 *D 1300*	**-Plateau de Cordouan.**	45° 35.2′ N 1° 10.4′ W	**Oc.(2+1)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. **19** R. **16** G. **15**	White tower, gray top; 223.	W. 014°-126°, G.-178°30′, W.-250°, W.(unintensified)-267°, R.(unintensified)-294°30′, R.-014°.
1488 *D 1293.9*	--Duc d'Albe.	45° 39.6′ N 1° 08.8′ W	**Fl.(2)W.** period 6s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 3.5s	33 **10**	2	White pylon, dolphin; 89.	
1490 *D 1292*	**-La Palmyre.**	45° 41.6′ N 1° 10.3′ W	**Dir.W.R.G.**	177 **54**	W. **25** R. **20** G. **20**	Water tower.	F.G. 054°55′-055°37′, Al.W.G.-056°14′, F.W.-057°05′, Al.W.R.-057°43′, F.R.-058°25′.
1492 *D 1294.1*	--Terre Negre Range, front.	45° 38.8′ N 1° 06.4′ 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. 14 R. 11 G. 11	White tower, red top, 89.	R. 304°-319°, W.-327°, G.-000°, W.-004°, G.-097°, W.-104°, R.-116°.
1496 *D 1294*	---Rear, about 1 mile 327°18′ from front.	45° 39.7′ N 1° 07.2′ W	**Oc.(3)R.** period 12s lt. 4.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s	187 **57**	**17**	White tower, 118.	Intensified 325°30′-328°30′. Radar station.
1500 *D 1310*	**--Saint Nicolas Range,** front.	45° 33.7′ N 1° 05.0′ W	**Q.G.**	72 **22**	**16**	White square tower; 43.	Intensified 061°30′-064°30′.
1504 *D 1310.1*	**---Pointe de Grave,** rear, about 1,550 meters 063° from front.	45° 34.1′ N 1° 03.9′ W	**Oc.W.R.G.** period 4s lt. 3s, ec. 1s	85 **26**	W. **17** R. 13 G. 13	White square tower, black corners and top; 82.	W. 330°-341°, W.(unintensified)-054°, W.-233°, R.-303°, W.-312°, G.-330°.
1505 *D 1313*	----N. jetty.	45° 34.4′ N 1° 03.7′ W	**Q.W.**	30 **9**	3	N. CARDINAL BY, beacon, topmark; 23.	**Radar reflector.**
1506 *D 1313.2*	----E. Elbow.	45° 34.3′ N 1° 03.6′ W	**Iso.G.** period 4s	26 **8**	2	STARBOARD (A) G, beacon, topmark; 23.	Visible 173°-020°. **Radar reflector.**
1508 *D 1312*	**--Le Chay** Range, front.	45° 37.3′ N 1° 02.4′ W	**Q.R.**	108 **33**	**18**	White tower, red top; 49.	Intensified 039°30′-042°30′.
1512 *D 1312.1*	**---St. Pierre,** rear, 1800 meters 041° from front.	45° 38.0′ N 1° 01.5′ W	**Q.R.**	200 **61**	**18**	Red water tower; 131.	Intensified 039°-043°. Synchronized with front.
1516 *D 1314*	-Port Bloc, N. mole, head.	45° 34.1′ N 1° 03.7′ W	**Fl.G.** period 4s fl. 1s, ec. 3s	30 **9**	4	White pyramidal tower, green top; 59.	
1520 *D 1316*	--S. mole, head.	45° 34.1′ N 1° 03.7′ W	**Fl.R.** period 4s fl. 1s, ec. 3s	26 **8**	4	White pyramidal tower, red top; 56.	Shown by day in restricted visibility.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			FRANCE-WEST COAST				
	-Passe Sud:						
1524 *D 1326*	--Oil pier.	45° 31.9´ N 1° 02.1´ W	**Dir.W.R.G.** period 4s	13 **4**	W. 12 R. 8 G. 8	Dolphin, white rectangular daymark, black stripe; 36.	Iso.G. 165°-170°, Iso.W.-173°, Iso.R.-178°.
			Fl.G. period 2.5s fl. 0.5s, ec. 2s	16 **5**	3		
1532 *D 1327*	-Pointe de la Chambrette, N. side.	45° 33.0´ N 1° 02.5´ W	**Fl.(3)G.** period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	43 **13**	2	Green structure; 10.	
1533 *D 1327.2*	--S. side.	45° 32.8´ N 1° 02.4´ W	**Fl.G.** period 2.5s fl. 0.5s, ec. 2s	39 **12**	4	Metal structure; 3.	Visible 180°-020°.
	-Royan:						
1536 *D 1304*	--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 *D 1308*	--New Jetty, head.	45° 37.1´ N 1° 01.5´ 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 metal mast, red top; 23.	
1544 *D 1307*	--E. Jetty.	45° 37.2´ 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 metal post, green top; 13.	Visible 311°-151°.
1556 *D 1372*	**Hourtin.**	45° 08.5´ N 1° 09.7´ W	**Fl.W.** period 5s fl. 0.1s, ec. 4.9s	180 **55**	**21**	Red square brick tower, gray top; 79.	
1560 *D 1378*	**Cap Ferret.**	44° 38.7´ N 1° 15.0´ W	**Fl.R.** period 5s fl. 0.1s, ec. 4.9s	175 **53**	**22**	White truncated tower, red top; 171.	
			Oc.(3)W. period 12s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 4.5s, ec. 1.5s	151 **46**	14		Visible 045°-135°. Reserve light.
1576 *D 1380*	-La Salie, wharf, head.	44° 30.9´ N 1° 15.7´ W	**Q.(9)W.** period 15s	59 **18**	4	Metal post, two triangular daymarks points together.	
1580 *D 1382*	**Contis-les-Bains.**	44° 05.6´ N 1° 19.1´ 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 *D 1384*	-Capbreton-Dique 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 *D 1386*	-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.	
1596 *D 1387*	-N. breakwater, head.	43° 31.9´ N 1° 32.0´ W	**Q.R.**	39 **12**	8	White square tower, red top; 30.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			FRANCE-WEST COAST				
1600 *D 1387.2*	-Entrance Range, front.	43° 31.8′ N 1° 31.2′ W	**Q.W.**	23 **7**	**19**	White pylon, red top; 20.	Intensified 086°30′-093°30′.
1604 *D 1387.21*	- -Rear, 250 meters 090° from front.	43° 31.8′ N 1° 31.0′ W	**Q.W.**	52 **16**	**19**	White pylon, red top; 39.	Intensified 086°30′-093°30′. Synchronized with front.
1608 *D 1387.3*	-Jetee Nord, head.	43° 31.8′ N 1° 31.4′ W	**Iso.R.** period 4s	39 **12**	5	White pylon, red top; 33.	Visible 296°-116°. Synchronized with 1612.
1612 *D 1387.4*	-Jetee Sud, head.	43° 31.7′ N 1° 31.5′ W	**Iso.G.** period 4s	30 **9**	5	White square tower, green top; 26.	Synchronized with 1608.
1616 *D 1387.5*	-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.	
1620 *D 1388*	-Inner Range, front.	43° 31.6′ N 1° 30.9′ W	**Q.G.**	23 **7**	13	White metal hut, green bands; 13.	Intensified 109°-114°.
1624 *D 1388.1*	- -Rear, 149 meters 111°30′ from front.	43° 31.6′ N 1° 30.8′ W	**Q.G.**	33 **10**	13	White square tower, green bands on NE. and NW. faces; 30.	Intensified 109°-114°.
1624.5 *D 1390*	-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 *D 1390.5*	-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 *D 1394*	-Des Forges Range, front.	43° 31.6′ N 1° 29.9′ W	**Q.R.**	49 **15**	8	White pylon, red top.	Visible 188°-098°.
1632 *D 1394.1*	- -Rear, about 150 meters 322°24′ from front.	43° 31.7′ N 1° 30.0′ W	**Q.R.**	72 **22**	10	Pylon.	Intensified 312°24′-332°24′.
1633 *D 1391*	-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 *D 1392*	-Dique 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 *D 1394.2*	-Sait Gobain Range, front.	43° 31.1′ N 1° 29.3′ W	**Q.R.**	23 **7**	2	White pylon, white daymark, red stripe; 20.	
1635.5 *D 1394.3*	- -Rear, 80 meters 141° from front.	43° 31.0′ N 1° 29.3′ W	**Q.R.**	33 **10**	2	White pylon, red daymark, white stripe; 26.	
1636 *D 1395*	-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 metal column, green top; 23.	
1648 *D 1396*	-Forme de Radoub.	43° 30.5′ N 1° 29.8′ W	**V.Q.G.**	43 **13**	3	White pylon, green top and base; 39.	
1656 *D 1400*	-L'Aveugle Bridge.	43° 30.1′ N 1° 29.5′ W	**Q.W.R.G.**		W. 10 R. 7 G. 7	Metal column.	G. 165°-170°, W.-175°, R.-195°.
1660 *D 1410*	**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**	White truncated tower, black top; 154.	
1664 *D 1413*	Guethary Range, front.	43° 25.6′ N 1° 36.5′ W	**Q.R.**	36 **11**	6	White post, red top, white rectangular daymark; 26.	
1668 *D 1413.1*	-Rear, about 66 meters 123° from front.	43° 25.6′ N 1° 36.5′ W	**Q.R.**	108 **33**	6	White tower; 23.	
1672 *D 1412.4*	-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.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			FRANCE-WEST COAST				
1676 *D 1412.41*	--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 *D 1414*	**-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 square shelter, white triangular top; 23.	Intensified 095°-107°.
1684 *D 1416*	--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 lt. 1s, ec. 1s	154 **47**	**18**	White square tower, black triangular top; 49.	Intensified 095°-107°. Synchronized with front.
1688 *D 1418*	-E. Jetty Range, front.	43° 23.3′ N 1° 40.1′ W	**Q.G.**	59 **18**	**17**	White pyramidal tower, red stripe; 46.	Intensified 149°30′-152°.
1692 *D 1420*	--Rear, 410 meters 150°36′ from front.	43° 23.1′ N 1° 40.0′ W	**Q.G.**	89 **27**	**17**	White pyramidal tower, green stripe; 89.	Intensified 149°42′-152°12′.
1696 *D 1422*	-Digue des Criquas, head.	43° 23.8′ N 1° 40.7′ W	**Iso.G.** period 4s	36 **11**	6	Green square tower; 20.	
1700 *D 1424*	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.-264°. **Siren:** (300 meters E.).
1704 *D 1424.1*	**-Bordagain,** rear, 1,430 meters 138°24′ from front.	43° 23.1′ N 1° 40.5′ W	**Q.W.**	220 **67**	**20**	White pylon, black bands, black rectangular daymark, white band; 39.	Intensified 134°30′-141°30′.
1708 *D 1425*	Hendaye, jetty, head.	43° 22.7′ N 1° 47.2′ W	**L.Fl.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 *D 1452*	**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 *D 1454.3*	Puerto de Fuenterrabia, N. breakwater.	43° 23.2´ N 1° 47.3´ W	**Q.(3)W.** period 5s	49 **15**	3	E. CARDINAL BYB, tower, topmark; 16.	
1717 *D 1454*	-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 *D 1454.6*	-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 cylindrical column; 23.	
1724 *D 1453*	-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 *D 1456*	-Pasajes Ancho.	43° 20.1´ N 1° 56.0´ W	**Oc.W.** period 4s lt. 3s, ec. 1s	502 **153**	13	White and gray building; 43.	Visible 285°-250°. 6 F.R. mark radio tower 1.96 km. 254°.
1730 *D 1456.2*	-East Bancha.	43° 20.2´ N 1° 55.7´ W	**Fl.R.** period 5s fl. 0.5s, ec. 4.5s	52 **16**	7	Red cylindrical metal tower; 52.	AIS.
1731 *D 1456.4*	-West Bancha.	43° 20.2´ N 1° 55.9´ W	**Fl.G.** period 5s fl. 0.5s, ec. 4.5s	52 **16**	7	Green cylindrical metal tower; 52.	AIS.
1732 *D 1457*	-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 *D 1457.5*	-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		**K(– • –)** period 72s		**20**		(3 cm).
1736 *D 1458*	-Senocozulua.	43° 19.9´ N 1° 55.6´ W	**Oc.(2)W.R.G.** period 12s lt. 7.5s, ec. 1.5s lt. 1.5s, ec. 1.5s	171 **52**	6	Triangular tower, house; 23.	G. 129°30′-154°30′, W.-157°00′, R.-190°00′.
1740 *D 1459*	- -Range, front.	43° 19.9´ N 1° 55.6´ W	**Q.W.**	226 **69**	**18**	White tower; 16.	
1744 *D 1459.1*	- - -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 *D 1460*	-Dique de Senocozulua, head.	43° 19.9´ 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 *D 1462*	-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 cylindrical tower; 20.	
1756 *D 1468*	-Range, front, Punta del Mirador.	43° 19.7´ N 1° 55.3´ W	**Iso.W.** period 4s	43 **13**	5	White hexagonal column; 23.	
1760 *D 1470*	--Rear, Ermita de Santa Ana.	43° 19.6´ N 1° 55.2´ W	**Q.W.**	112 **34**	5	Metal tower; 20.	Visible 090°-180°.
1764 *D 1466*	-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 *D 1472*	-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 cylindrical tower; 30.	
1772 *D 1474*	-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 and white cylindrical metal tower, white hut; 23.	
1776 *D 1475*	-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 cylindrical column; 23.	
1777 *D 1475.5*	-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 *D 1476.8*	-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 *D 1476.85*	--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 *D 1483*	**-Igueldo.**	43° 19.4´ 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 cylindrical tower, dwelling; 42.	
1792 *D 1482*	-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 cylindrical tower, dwelling; 33.	
1796 *D 1484*	-La Concha Range, front.	43° 18.9´ N 1° 59.5´ W	**Q.R.**	39 **12**	7	Gray post; 16.	
1800 *D 1484.1*	--Rear, about 25 meters 158° from front.	43° 18.9´ N 1° 59.4´ W	**Oc.R.** period 4s lt. 3s, ec. 1s	59 **18**	7	Gray post; 30.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SPAIN-NORTH COAST				
1802 *D 1488.2*	-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	Red cylindrical column; 26.	
1804 *D 1489*	**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 cylindrical tower, dwelling; 46.	
1808 *D 1493*	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, dwelling; 39.	
1812 *D 1494*	-Breakwater, head.	43° 18.3´ N 2° 14.8´ W	**Fl.(2)G.** period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	65 **20**	5	Green truncated conical masonry tower; 23.	
1816 *D 1494.2*	-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	Red truncated conical masonry tower; 10.	
	PUERTO DE MOTRICO:						
1820 *D 1495*	-W. mole, head.	43° 18.5´ N 2° 22.9´ W	**Fl.(3)G.**	39 **12**	1	Green four-sided post; 20.	
	ONDARROA:						
1832 *D 1498*	-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(– – •)**		12		(3 cm).
1836 *D 1499*	-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	Truncated conical masonry tower; 16.	
	LEQUEITIO:						
1840 *D 1502*	**-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 truncated conical tower, octagonal base; 42.	**Nautophone:** Mo.(L) ev. 20s.
1844 *D 1504*	-Rompeolas de Amandarri.	43° 22.0´ N 2° 29.9´ W	**Fl.G.** period 4s fl. 1s, ec. 3s	33 **10**	5	Gray tower; 16.	
1848 *D 1506*	-Muelle del Tinglado, S. extremity.	43° 21.9´ N 2° 30.1´ W	**F.G.**	23 **7**	2	Metal post; 13.	
1852 *D 1508*	-Muelle Sur, N. extremity.	43° 21.9´ N 2° 30.0´ W	**F.R.**	20 **6**	2	Red post; 13.	
1856 *D 1505*	-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.	
1860 *D 1510*	Elanchove, W. breakwater, N. head.	43° 24.2´ N 2° 38.2´ W	**F.W.R.**	30 **9**	W. 8 R. 5	Red tripod; 19.	W. 000°-315°, R.-000°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SPAIN-NORTH COAST				
1864 *D 1510.4*	-Dique Norte, head.	43° 24.2´ N 2° 38.3´ W	**Fl.G.** period 3s fl. 1s, ec. 2s	33 **10**	4	Green tripod; 16.	
	PUERTO DE BERMEO:						
1868 *D 1512*	-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 *D 1513*	-Dique Rompeolas, head.	43° 25.3´ N 2° 42.6´ W	**Fl.G.** period 4.5s fl. 1s, ec. 3.5s	59 **18**	4	Gray truncated masonry tower.	
1876 *D 1513.2*	--Spur normal to Dique Rompeolas, head.	43° 25.2´ N 2° 43.0´ W	**F.G.**	23 **7**	2	Green tripod; 10.	
1880 *D 1514*	-Espigon Norte, head.	43° 25.1´ N 2° 43.1´ W	**F.G.**	23 **7**	3	Green tower; 10.	
1888 *D 1513.4*	Breakwater, head.	43° 25.2´ N 2° 42.8´ W	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s	26 **8**	3	Red tripod; 10.	
1891 *D 8100*	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 *D 1520*	**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.	**Siren:** 2 bl. ev. 60s.
1896 *D 1521*	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 tower; 13.	
1898 *D 1523*	**Gorliz.**	43° 26.0´ N 2° 56.6´ 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 *D 1524*	**-Punta Galea.**	43° 22.3´ N 3° 02.1´ 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, dwelling, gray cupola; 26.	Visible 011°-227°.
1904 *D 1524.2*	--Breakwater, head.	43° 22.8´ N 3° 04.7´ W	**Fl.R.** period 5s fl. 0.5s, ec. 4.5s	69 **21**	7	Red cylindrical column; 46.	
1908 *D 1526.4*	-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 cylindrical column; 13.	**Radar reflector.**
	-RACON		**X(– • • –)** period 72s		**20**		(3 cm).
1910.2 *D 1526.64*	-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 cylindrical column.	
1910.5 *D 1526.65*	-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 cylindrical tower, red stripe; 16.	Visible 014°-275°.

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			SPAIN-NORTH COAST				
1910.6 *D 1524.4*	--Head.	43° 21.5´ N 3° 02.7´ W	**Fl.(2)G.** period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6s	72 **22**	5	Green cylindrical tower; 16.	
1910.7 *D 1524.45*	--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 cylindrical column; 13.	
1911 *D 1524.6*	-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 cylindrical tower, red band; 16.	
1912 *D 1525*	-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 cylindrical tower; 49.	
1912.5 *D 1525.05*	--S. corner, head.	43° 20.5´ N 3° 01.6´ W	**Fl.(2)R.** period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	36 **11**	1	Red cylindrical column; 13.	
1913 *D 1525.1*	-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 *D 1525.15*	-Mulelle 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 cylindrical post; 7.	
1914 *D 1526.2*	-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 *D 1527*	-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	Green cylindrical column; 46.	
1924 *D 1527.2*	-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	Green tripod, dwelling; 30.	
1928 *D 1527.22*	--S. corner, head.	43° 20.5´ N 3° 02.0´ W	**Fl.G.** period 5s fl. 0.5s, ec. 4.5s	52 **16**	1	Green framework tower; 30.	
1932 *D 1527.4*	-Espigon No 2, N. angle.	43° 20.4´ 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	Red and green framework tower; 20.	
1936 *D 1527.42*	--S. extremity.	43° 20.2´ N 3° 01.9´ W	**Fl.(2)G.** period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6s	52 **16**	1	Green tripod, dwelling; 30.	
1938 *D 1528*	-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	Red and green tripod, dwelling; 30.	
1938.1 *D 1528.2*	--S. corner, head.	43° 20.0´ N 3° 01.7´ W	**Fl.G.** period 5s fl. 0.5s, ec. 4.5s	39 **12**	1	Green tripod, dwelling; 30.	
1939 *D 1530*	-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.	

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			SPAIN-NORTH COAST				
1940 *D 1529*	-Portugalete, Churruca Mole No 3, head.	43° 19.9´ N 3° 01.6´ 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 cylindrical tower, red band; 26.	
1944 *D 1531*	-La Mojijonera, jetty No 4, head.	43° 19.7´ N 3° 01.2´ W	**Fl.(2)R.** period 6s fl. 0.7s, ec. 0.7s fl. 0.7s, ec. 3.9s	33 **10**	1	Red tripod, dwelling; 13.	
1948 *D 1532*	-Muelle de la Benedicta.	43° 19.1´ N 3° 00.6´ 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, dwelling; 26.	
1949 *D 1532.2*	-Darsena de Udondo, jetty, head.	43° 18.9´ N 2° 59.5´ W	**Q.R.**	23 **7**	1	Red post; 16.	
1951 *D 1532.25*	- -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 *D 1532.6*	-Darsena de Axpe, submerged mole.	43° 18.6´ N 2° 59.0´ 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, dwelling; 26.	
1956 *D 1532.4*	- -Morro del Fraile.	43° 18.8´ N 2° 59.2´ 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, dwelling; 26.	
	CASTRO-URDIALES:						
1964 *D 1536*	**-Castillo de Santa Ana.**	43° 23.1´ 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**	Truncated conical masonry tower; 52.	
1972 *D 1537*	-N. breakwater, head.	43° 22.9´ N 3° 12.5´ W	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	46 **14**	6	Octagonal masonry tower; 23.	
1976 *D 1537.2*	-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 framework tower.	F.G. light marks N. mole, F.R. light marks S. mole.
	RIA DE SANTONA:						
1984 *D 1542*	**-Punta del Pescador, Mount Santona.**	43° 27.8´ 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**	White truncated conical tower, dwelling; 43.	
1992 *D 1546*	-SW. corner of passenger mole Range, front.	43° 26.3´ N 3° 27.6´ W	**Fl.W.** period 2s fl. 0.5s, ec. 1.5s	23 **7**	8	Framework tower, black triangular daymark point down.	Visible 279°30′-287°30′.
1996 *D 1546.1*	- -Rear, on bridge, 1,399 meters 283°30′ from front.	43° 26.5´ N 3° 28.6´ W	**Oc.(2)W.** period 5s lt. 2.3s, ec. 1s lt. 0.7s, ec. 1s	46 **14**	11	Framework tower, circular daymark.	Visible 279°30′-287°30′.
2000 *D 1547*	-Darsena del Puerto.	43° 26.5´ N 3° 27.8´ W	**F.R.**	26 **8**	4	White truncated conical tower, red bands.	F.G. light marks S. entrance. F.R. light marks N. entrance.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SPAIN-NORTH COAST				
2004 *D 1548*	-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 *D 1548.2*	- -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 *D 1549*	-Canal de Colindres, Malecon N.	43° 24.6´ N 3° 27.5´ 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 truncated conical tower.	
2016 *D 1552*	**Cabo de Ajo.**	43° 30.7´ N 3° 35.7´ W	**Oc.(3)W.** period 16s lt. 6s, ec. 2s lt. 2s, ec. 2s lt. 2s, ec. 2s	233 **71**	**17**	White cylindrical tower; 26.	
	SANTANDER:						
2020 *D 1554*	-Isla Mouro.	43° 28.4´ N 3° 45.4´ W	**Fl.(3)W.** period 16s fl. 1s, ec. 2.5s fl. 1s, ec. 2.5s fl. 1s, ec. 8s	128 **39**	11	Tower, dwelling; 59.	
2026 *D 1556.5*	-Puntal Range, front.	43° 27.5´ N 3° 46.4´ W	**Q.W.**	30 **9**	6	Metal tower, red and white triangular point up.	Intensified 231°48′-239°48′.
	-RACON		**K(– • –)**		10		(3 & 10cm). Azimuth coverage 225°-240°.
2026.1 *D 1556.51*	- -Rear, 100 meters 235°48′ from front.	43° 27.5´ N 3° 46.5´ W	**Iso.R.** period 4s	39 **12**	6	Metal tower, red and white triangular daymark point down.	Intensified 231°48′-239°48′.
2028 *D 1557*	-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	ISOLATED DANGER BRB, beacon, topmark; 16.	
2032 *D 1558.2*	-Darsena de Molnedo, E. mole, head.	43° 27.7´ N 3° 47.5´ W	**Q.G.**	39 **12**	5	Green and white cylindrical column; 20.	Visible over channel and about 2 km. E. and W. of basin entrance.
2036 *D 1558*	- -W. mole, head.	43° 27.7´ N 3° 47.5´ W	**Q.R.**	39 **12**	5	Red and white cylindrical column; 20.	
2041 *D 1557.3*	-Muelle de Maliano, 259°30′.	43° 27.3´ N 3° 48.6´ W	**Dir.W.R.G.**	66 **20**	6	Metal column; 49.	Fl.G. 257°48′-258°18′, F.G.-258°48′, Oc.G.-259°24′, F.W.-259°36′, Oc.R.-260°12′, F.R.-260°42′, Fl.R.-261°12′. Range 4M by day.
2048 *D 1559.4*	-Muelle de Maliano, SE. corner.	43° 27.0´ N 3° 48.9´ W	**Q.G.**	39 **12**	5	Green and white cylindrical column; 20.	
2050 *D 1559.42*	-W. corner.	43° 27.0´ N 3° 49.3´ W	**Oc.G.** period 4s lt. 3s, ec. 1s	26 **8**	5	Green and white cylindrical column; 7.	
2052 *D 1559.45*	-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 cylindrical column, red band; 20.	
2053 *D 1559.83*	-Darsena Norte de Raos, Muelle Raos 3, head.	43° 26.7´ N 3° 48.9´ W	**Q.G.**	39 **12**	5	Green and white cylindrical column, green triangular daymark point up; 20.	
2055 *D 1559.84*	-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, 'X" topmark; 10.	E. and W. dolphins marked by Fl.Y. 2.5s.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SPAIN-NORTH COAST				
2057 *D 1559.87*	-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 cylindrical post, red band, dolphin; 20.	
2060 *D 1561*	**-Cabo Mayor.**	43° 29.4´ N 3° 47.4´ W	**Fl.(2)W.** period 10s fl. 0.4s, ec. 2.1s fl. 0.4s, ec. 7.1s	299 **91**	**21**	White framework cylindrical tower, base; 98.	**DGPS Station.**
2064 *D 1562*	**Suances (San Martin de la Arena).**	43° 26.5´ N 4° 02.6´ W	**Fl.(2+1)W.** period 24s fl. 0.4s, ec. 5.6s fl. 0.4s, ec. 2.6s fl. 0.4s, ec. 14.6s	115 **35**	**22**	Masonry tower, dwelling; 30.	Visible 113°-091°.
2066 *D 1562.6*	-Breakwater, head.	43° 26.3´ N 4° 02.2´ 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 post; 30.	
2068 *D 1563*	Ria de Suances Range, front.	43° 26.2´ N 4° 02.1´ W	**Q.W.** period 1s	33 **10**	5	White truncated conical tower; 20.	
2072 *D 1563.1*	-Rear, on Punta Marzan about 210 meters 146° from front.	43° 26.1´ N 4° 02.0´ W	**Iso.W.** period 4s	46 **14**	5	White truncated conical tower; 33.	
	COMILLAS:						
2076 *D 1566*	-Outer Range, front.	43° 23.3´ N 4° 17.2´ W	**Iso.W.** period 2s	118 **36**	4	White truncated conical tower, black band; 13.	
2080 *D 1566.1*	--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 truncated conical tower, black band; 13.	
2084 *D 1568*	-Inner Range, front.	43° 23.4´ N 4° 17.4´ W	**Iso.W.** period 2s	52 **16**	3	White truncated conical tower, black band; 13.	
2088 *D 1568.1*	--Rear, 245° from front.	43° 23.4´ N 4° 17.4´ W	**Fl.W.** period 3s fl. 1s, ec. 2s	66 **20**		White truncated conical tower, black band; 13.	Range lights obscured S. of 231°.
2092 *D 1570*	-Breakwater, head.	43° 23.5´ N 4° 17.4´ 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**		Green post; 20.	
	RIA DE SAN VICENTE DE LA BARQUERA:						
2096 *D 1574*	-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	Four-sided masonry tower, dwelling; 30.	Visible 115°-250°.
2100 *D 1576*	-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	White truncated conical tower, green band; 10.	G. 175°-225°, W.-045°.
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	White truncated conical tower, red band; 20.	
2108 *D 1578*	-Punta de la Espina.	43° 23.4´ N 4° 23.5´ W	**Fl.(3)G.**	26 **8**	2	White truncated conical tower, green band; 16.	
2112 *D 1580*	**Punta San Emeterio.**	43° 23.9´ N 4° 32.1´ W	**Fl.W.** period 5s fl. 0.3s, ec. 4.7s	223 **68**	**20**	Gray cylindrical tower, white building; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SPAIN-NORTH COAST				
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, dwelling; 26.	
	RIBADESELLA:						
2120 *D 1586*	**-Somos.**	43° 28.3´ N 5° 05.0´ W	**Fl.(2+1)W.** period 12s fl. 0.4s, ec. 1.2s fl. 0.4s, ec. 4.8s fl. 0.4s, ec. 4.8s	377 **115**	**25**	Tower, dwelling; 26.	
2124 *D 1587*	-Breakwater, head.	43° 28.0´ N 5° 04.0´ 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	39 **12**	5	White cylindrical tower; 26.	
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	Concrete tower, green post; 16.	
2130 *D 1591*	**Cabo Lastres.**	43° 32.0´ N 5° 18.0´ 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 cylindrical tower, green cupola; 59.	
2132 *D 1592*	**Punta de Tazones.**	43° 32.9´ N 5° 23.9´ W	**Fl.W.** period 7.5s fl. 0.3s, ec. 7.2s	417 **127**	**24**	Octagonal masonry tower, white building; 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° 32.8´ N 5° 40.3´ W	**Fl.(2)G.** period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	36 **11**	5	STARBOARD (A) G, beacon, topmark; 20.	**Radar reflector.**
2140 *D 1609*	-Dique de Liquerica (Santa Catalina).	43° 32.8´ N 5° 40.2´ 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 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.	
2150 *D 1598.42*	-NE. corner.	43° 33.4´ N 5° 40.8´ W	**Q.(3)W.** period 10s	43 **13**	3	E. CARDINAL BYB, post, topmark.	
2151 *D 1598.1*	-NW.	43° 33.6´ N 5° 41.1´ W	**Fl.(2)R.** period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	43 **13**	5	Red cylindrical column.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SPAIN-NORTH COAST				
	-Zona de El Musel:						
2152 *D 1598*	--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 four-sided column; 16.	
2156 *D 1598.4*	--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 *D 1598.3*	---S. corner.	43° 33.2´ N 5° 41.5´ 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 *D 1606.5*	--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, "X" topmark; 13.	
2168 *D 1602*	--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 *D 1603*	--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 *D 1603.2*	---SE. corner.	43° 33.9´ N 5° 41.8´ 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 *D 1598.7*	--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 *D 1598.8*	---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 *D 1598.5*	-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 *D 1599*	--Dique Norte, head.	43° 33.7´ N 5° 41.5´ W	**Fl.(2)G.** period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	33 **10**	5	Green four-sided column; 16.	
2196 *D 1597*	--Dique Exterior (Dique Oeste), head.	43° 34.3´ N 5° 40.6´ W	**Q.(2+1)G.** period 10s	79 **24**	7	Green and red cylindrical tower, green base, truncated conical top.	
2200 *D 1597.4*	--Contradique del Oeste, head.	43° 33.9´ N 5° 40.8´ W	**Fl.G.** period 6s fl. 1s, ec. 5s	52 **16**	5	Green cylindrical column; 13.	**Radar reflector.**
2204 *D 1596*	**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, dwelling; 39.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SPAIN-NORTH COAST				
	CANDAS:						
2208 *D 1614*	**-Cabo San Antonio.**	43° 35.7′ N 5° 45.6′ W	**Oc.(2)W.** period 10s lt. 4s, ec. 2s lt. 2s, ec. 2s	131 **40**	**15**	Red tower, white building; 39.	
2212 *D 1616*	-Punta del Cuerno.	43° 35.7′ N 5° 45.6′ W	**Dir.W.R.G.** period 4s fl. 1s, ec. 3s	72 **22**	3	Red and white column; 13.	Fl.R. 284°-286°, Fl.W-288°, Fl.G.-290°.
2220 *D 1618*	-Nuevo Muelle, near extremity.	43° 35.4′ 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	Cylindrical tower, green top; 13.	
	LUANCO:						
2224 *D 1624*	-Punta del Gallo Breakwater, head.	43° 37.2′ N 5° 47.0′ W	**Fl.(2)R.** period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	39 **12**	3	Red cylindrical tower; 13.	
2228 *D 1622*	-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 *D 1622.1*	- -Rear, 200 meters 255° from front.	43° 36.9′ N 5° 47.5′ W	**Oc.G.** period 4s lt. 3s, ec. 1s	26 **8**	5	Green cylindrical tower; 13.	
2236 *D 1628*	**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, building; 59.	
2238 *D 1630.4*	-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 column, white truncated conical base; 13.	
	RIA DE AVILES:						
2240 *D 1630*	**-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 four-sided tower; 46.	R. 091°30′-113°, W.-091°30′.
2244 *D 1631*	-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 *D 1631.28*	-Breakwater, head.	43° 35.6′ N 5° 56.8′ W	**Fl.G.** period 5s fl. 0.5s, ec. 4.5s	49 **15**	5	Metal framework post; 26.	Visible 106°-280°.
2246.5 *D 1632.05*	-Curva de Pachico, dock.	43° 35.5′ N 5° 55.5′ W	**Fl.(3)R.** period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s		3	White truncated conical tower, red column.	
2247 *D 1632.11*	-Directional light.	43° 35.4′ N 5° 54.6′ W	**Dir.W.R.G.** period 6s fl. 2s, ec. 4s	243 **74**	W. **21** R. **19** G. **19**	White cylindrical tower, tapered top; 46.	L.Fl.G.098°06′-098°54′, L.Fl.W.-099°15′, L.Fl.R.-100°06′.
	SAN ESTEBAN:						
2248 *D 1634.2*	-W. breakwater.	43° 34.2′ N 6° 04.6′ W	**Fl.(2)W.** period 12s fl. 1s, ec. 2s fl. 1s, ec. 8s	66 **20**	**15**	Cylindrical masonry tower, dwelling; 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 *D 1636*	-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	Green rectangular tower; 10.	Six F.G. lights mark the training wall on W. side of channel. Two F.Or. in line 202°30′ mark entrance.
2268 *D 1638*	-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 *D 1638.4*	--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 *D 1640*	**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, dwelling; 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 *D 1641*	**Cabo Vidio.**	43° 35.6´ N 6° 14.6´ W	**Fl.W.** period 5s fl. 0.3s, ec. 4.7s	331 **101**	**25**	Cylindrical masonry tower, dwelling; 30.	
2284 *D 1642*	**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 four-sided tower, dwelling; 30.	Aeromarine.
	LUARCA:						
2288 *D 1646*	-Punta La Blanca.	43° 33.0´ N 6° 31.9´ W	**Oc.(3)W.** period 15s lt. 7s, ec. 2s lt. 1s, ec. 2s lt. 1s, ec. 2s	213 **65**	14	White four-sided 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 *D 1647*	-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	Red cylindrical tower; 43.	
2296 *D 1649*	-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 four-sided column, red bands; 52.	
2300 *D 1649.1*	--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 four-sided column, red bands; 13.	
2304 *D 1650*	-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 *D 1652*	-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 *D 1653*	-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.	
2316 *D 1657*	**Ria de Navia.**	43° 33.8´ N 6° 44.0´ W	**Oc.(2)W.** period 12s lt. 6s, ec. 2s lt. 2s, ec. 2s	236 **72**	**25**	White cylindrical tower, black bands; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SPAIN-NORTH COAST				
2320 *D 1657.5*	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 conical tower; 16.	
2324 *D 1657.6*	-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 conical tower; 16.	
2328 *D 1658*	**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, building; 33.	
2332 *D 1659*	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 truncated conical tower; 16.	
2336 *D 1659.2*	-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 truncated conical tower; 20.	
	RIA DE RIBADEO:						
2340 *D 1660*	**-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**	White cylindrical tower, black bands; 43.	
2341 *D 1661*	-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 cylindrical tower, base.	
2348 *D 1662*	-Punta Aerojo, 1st Entrance Range, front.	43° 32.8´ N 7° 01.5´ W	**Iso.R.**	66 **20**	5	White cylindrical tower, white four-sided base; 20.	
2352 *D 1662.1*	- -Rear, 238 meters 140° from front.	43° 32.8´ N 7° 01.3´ W	**Oc.R.** period 4s lt. 3s, ec. 1s	79 **24**	5	White tower, red diamond daymark; 20.	
2356 *D 1664*	-Muelle del Garcia, 2nd Range, front.	43° 32.5´ N 7° 02.2´ W	**V.Q.R.**	33 **10**	3	White truncated conical tower, two black triangular daymarks bases together; 23.	
2360 *D 1664.1*	- -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	Four-sided beacon, red and white structure, white diamond daymark; 7.	
2368 *D 1673*	Piedra Burela.	43° 39.8´ N 7° 20.7´ W	**Q.(3)W.** period 10s	43 **13**	10	E. CARDINAL BYB, tower, topmark.	**AIS** (MMSI No 992240000).
	PUERTO DE SAN CIPRIAN:						
2376 *D 1676*	**-Punta Atalaya.**	43° 42.0´ N 7° 26.2´ 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 cylindrical tower, black stripe; 46.	
2380 *D 1678.2*	-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	89 **27**	7	White cylindrical tower, red bands; 39.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SPAIN-NORTH COAST				
2384 *D 1678.21*	---Rear, about 475 meters 203°55′ from front.	43° 42.0′ N 7° 27.8′ W	**Oc.W.** period 6s lt. 4s, ec. 2s	121 **37**	7	White cylindrical tower, red bands; 72.	
2388 *D 1678.3*	--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	138 **42**	7	White cylindrical tower, red bands; 75.	
2392 *D 1678.31*	---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	White cylindrical tower, red bands; 39.	
2396 *D 1678.4*	--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**	3	Metal framework tower, column; 20.	
2400 *D 1678.6*	--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	Framework tower, gray octagonal base; 33.	W. 110°-180°, G.-110°.
2404 *D 1678*	-Fiqueras.	43° 41.8′ N 7° 26.5′ W	**Q.R.W.**	29 **9**	5	White truncated pyramidal tower, red diamond daymark; 26.	Obscured by Farallones. R. 178°-194°, W.-198°
2410 *D 1678.8*	**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 cylindrical tower; 46.	
	RIA DE VIVERO:						
2412 *D 1679*	-Punta Faro.	43° 42.7′ N 7° 35.0′ W	**Fl.R.** period 5s fl. 0.5s, ec. 4.5s	66 **20**	7	Red four-sided column; 20.	
2416 *D 1680*	-Punta Socastro.	43° 43.1′ N 7° 36.4′ W	**Fl.G.** period 5s fl. 0.5s, ec. 4.5s	66 **20**	7	Green cylindrical tower, truncated conical base; 20.	
	-Rio Landrove:						
2420 *D 1681*	--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 cylindrical column; 20.	
	RIA DEL BARQUERO:						
2432 *D 1684*	-Isla Coelleira.	43° 45.5′ N 7° 37.8′ W	**Fl.(4)W.** period 16s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 6s	292 **89**	7	Gray conical tower, white house; 23.	
2436 *D 1685.2*	-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 truncated conical tower; 30.	G. 198°-213°,W.-240°, R.-255°, G.-070°.
2440 *D 1685*	-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 truncated conical tower; 30.	Visible 000°- 180°.
2441 *D 1685.11*	-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 cylindrical column, white building; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SPAIN-NORTH COAST				
2442 *D 1685.12*	--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 cylindrical column, white building; 20.	
2444 *D 1686*	**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, white dwelling, red roof; 33.	Obscured when bearing greater than 291°. **AIS** (MMSI No 992242114). **DGPS Station.**
2446 *D 1686.1*	Espasante, outer breakwater.	43° 43.2´ N 7° 48.9´ W	**Fl.R.** period 5s fl. 0.5s, ec. 4.5s	42 **13**	3	Red cylindrical tower; 33.	
2447 *D 1686.2*	-Inner breakwater.	43° 43.2´ N 7° 48.7´ W	**Fl.G.** period 5s fl. 0.5s, ec. 4.5s	26 **8**	3	Green tower; 16.	
2450 *D 1686.3*	**Cape Ortegal.**	43° 46.2´ N 7° 52.2´ W	**Fl.(2+1)W.** period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 7s	407 **124**	**18**	White cylindrical tower, red band; 33.	**AIS** (MMSI No 992242133).
2452 *D 1687*	**Punta Candelaria.**	43° 42.6´ 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**	White octagonal tower, dwelling; 30.	
2454 *D 1687.6*	Punta Sarridal.	43° 39.6´ N 8° 04.5´ W	**Oc.W.R.** period 6s lt. 4s, ec. 2s	135 **41**	11	White cylindrical tower, trunicated conical base; 7.	W. 145°-172°, R.-145°.
2456 *D 1688*	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, white building; 23.	
2458 *D 1690*	**Punta de Frouxeira.**	43° 37.1´ N 8° 11.3´ W	**Fl.(5)W.** period 15s	246 **75**	**20**	Pyramidal concrete tower, green cupola; 98.	
2460 *D 1692*	**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 *D 1694*	**-Cabo Priorino Chico.**	43° 27.5´ N 8° 20.4´ W	**Fl.W.** period 5s fl. 1s, ec. 4s	118 **36**	**23**	White octagonal tower, dwelling; 16.	Visible 225°-129°30′.
2468 *D 1695*	-San Cristobal.	43° 28.1´ N 8° 18.4´ W	**Dir.F.W.R.G.**	115 **35**	5	White quadrangular tower; 20.	G. 038°12′-040°, Al.W.G.-041°30′, W-042°30′, Al.W.R.-044°, R-045°42′.
2476 *D 1696*	-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	White four-sided tower; 26.	F.R. on antennas 0.5 and 1.1 miles S.
2480 *D 1696.1*	--Rear, 701 meters 085°10′ from front.	43° 27.6´ N 8° 16.6´ W	**Oc.W.** period 4s lt. 3s, ec. 1s		3	Concrete tower, white tile facing; 42.	Range only usable between white sector of Bateria de S. Cristobal and N./S. of Punta Louridal.
2484 *D 1697*	-Near Castillo de La Palma.	43° 27.8´ N 8° 16.4´ W	**Oc.(1+2)W.** period 7s lt. 1.8s, ec. 1s lt. 1.8s, ec. 1s lt. 0.4s, ec. 1s	36 **11**	5	Cylindrical tower, red house; 23.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SPAIN-NORTH COAST				
2510 *D 1698.5*	-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 four-sided column, green band; 13.	Fl.(3)R. 9s on SE. corner. Synchronized with 2512.
2512 *D 1698.84*	-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 and white post; 16.	Synchronized with 2510.
2513 *D 1698.7*	-Muelle Fernandez Ladreda.	43° 28.6´ N 8° 14.9´ W	**Fl.G.** period 5s fl. 0.5s, ec. 4.5s	30 **9**	3	Green four-sided column.	
2516 *D 1698.9*	-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 post, white building; 7.	
2520 *D 1698.92*	--On the Punta del Martillo.	43° 28.5´ N 8° 14.3´ W	**Fl.R.** period 5s fl. 0.5s, ec. 4.5s	30 **9**	1	Red post; 16.	
2524 *D 1698.94*	-Darsena No 1, pier, end.	43° 28.6´ N 8° 14.2´ W	**Oc.G.** period 2.5s lt. 2s, ec. 0.5s	30 **9**	1	Green four-sided post; 13.	
2528 *D 1698.96*	--No 2, W. mole, head.	43° 28.3´ N 8° 14.0´ 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	30 **9**	3	Green truncated conical tower, red band; 16.	
2532 *D 1698.98*	-Muelle commercial, head.	43° 28.3´ 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 conical tower, red band; 16.	
2533 *D 1699.5*	-Astilleros Astano, Muelle No 7.	43° 28.6´ N 8° 11.3´ W	**Fl.(2)G.** period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	30 **9**	3	Concrete post, green lantern; 10.	
2533.5 *D 1699.6*	--Muelle No 10.	43° 28.5´ N 8° 11.6´ 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	Metal framework tower; 10.	
2534 *D 1699.7*	--Muelle No 11.	43° 28.3´ N 8° 11.6´ W	**Fl.G.** period 5s fl. 0.5s, ec. 4.5s	30 **9**	3	Metal lattice tower; 10.	
2535 *D 1702.9*	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 post.	W. 350°30′-355°30′, R.-350°30′.
2537 *D 1703*	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	PORT (A) R, tower, topmark; 20.	
2537.5 *D 1703.5*	-Playa de Cabanas, breakwater, head.	43° 24.8´ N 8° 10.5´ W	**Fl.(3)R.** period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	30 **9**	3	Red octagonal tower, white band; 23.	
2538 *D 1702.6*	Contradique, head.	43° 21.6´ 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 cylindrical tower; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SPAIN-NORTH COAST				
2540 *D 1700*	Puerto de Sada malecon, N. head.	43° 21.8´ N 8° 14.5´ 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	49 **15**	5	Green cylindrical tower; 20.	
2544 *D 1702*	-Malecon, S. head.	43° 21.6´ N 8° 14.9´ W	**Fl.R.** period 5s fl. 0.5s, ec. 4.5s	26 **8**	1	Red post; 10.	
	LA CORUNA:						
2548 *D 1704*	**-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**	Four-sided tower, octagonal top; 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 *D 1706*	-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 020°-196°. (3 & 10).
2556 *D 1708*	--Rear, 300 meters 108°30′ from front.	43° 23.0´ N 8° 21.1´ W	**L.Fl.W.** period 8s fl. 2s, ec. 6s	266 **81**	8	White octagonal tower; 46.	Visible 357°30′-177°30′. **AIS** (MMSI No 992242137).
2560 *D 1710*	-Punta Fiaiteira Range, front.	43° 20.6´ N 8° 22.2´ W	**Iso.W.R.G.** period 2s	95 **29**	W. 10 R. 7 G. 7	White four-sided tower, red bands; 49.	G. 146°24′-180°, W.-184°, R.-217°36′.
	-RACON		**X(– • • –)**		**18**		(3 & 10cm).
2564 *D 1710.1*	--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 four-sided tower, red and white post; 49.	
2568 *D 1714*	-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 *D 1716*	-Castillo de San Anton.	43° 21.9´ N 8° 23.2´ W	**Fl.(2)G.** period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	56 **17**	5	Concrete hexagonal tower; 20.	Visible 334°-096°42′.
2573 *D 1716.4*	-Muelle de San Diego, NE. corner.	43° 21.6´ 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 *D 1716.6*	--SE. corner.	43° 21.6´ N 8° 23.2´ W	**Oc.(2)G.** period 6s lt. 1s, ec. 1s lt. 3s, ec. 1s	30 **9**	5	Green post; 20.	
2575 *D 1716.2*	--NW. corner.	43° 21.8´ N 8° 23.7´ 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 post; 20.	
2576 *D 1717*	-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 cylindrical tower; 20.	
2580 *D 1722*	-Espigon de Trasatlanticos, N. corner.	43° 21.9´ N 8° 23.9´ W	**Fl.R.** period 5s fl. 0.5s, ec. 4.5s	30 **9**	1	Red cylindrical tower; 20.	
2584 *D 1722.2*	--S. corner.	43° 21.8´ N 8° 23.9´ W	**Fl.G.** period 5s fl. 0.5s, ec. 4.5s	30 **9**	2	Green cylindrical tower; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SPAIN-NORTH COAST				
2588 *D 1723*	-Oil pier, head.	43° 21.4′ N 8° 22.7′ W	**Fl.(2+1)R.** period 15s fl. 1s, ec. 2s fl. 1s, ec. 4s fl. 1s, ec. 6s	33 **10**	3	Red cylindrical tower, green band; 16.	
2592 *D 1718*	-Parrote Spur, entrance to marina basin, E. side.	43° 22.1′ N 8° 23.8′ 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	36 **11**	1	Green post; 23.	
2596 *D 1720*	-Marina basin entrance, W. side, W. mole.	43° 22.1′ N 8° 23.8′ W	**Q.R.**	36 **11**	2	Red post; 23.	
2599 *D 1723.91*	Puerto Langosteira, breakwater, head.	43° 20.8′ N 8° 32.0′ 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		7	Red structure.	**Radar reflector.**
2599.1 *D 1723.9*	--Elbow.	43° 21.4′ N 8° 30.9′ W	**V.Q.W.**	102 **31**	7	N. CARDINAL BY, beacon, topmark; 20.	
2599.2 *D 1723.93*	--Inner arm.	43° 20.7′ N 8° 31.6′ W	**Fl.R.** period 5s fl. 0.5s, ec. 4.5s		3	Red structure.	
2599.3 *D 1723.95*	-Mole, head.	43° 20.5′ N 8° 30.3′ W	**Fl.(4)G.** 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		3	Green structure.	
2600 *D 1724*	Cayon, entrance Range, front.	43° 19.1′ N 8° 36.0′ W	**Fl.W.** period 2s fl. 0.8s, ec. 1.2s	56 **17**	4	White cylindrical tower; 13.	
2604 *D 1724.1*	--Rear, 115 meters 147°10′ from front.	43° 19.0′ N 8° 35.9′ W	**Oc.W.** period 4s lt. 3s, ec. 1s	148 **45**	4	White cylindrical tower; 13.	
2606 *D 1725*	Dique de Abrigo.	43° 19.2′ N 8° 36.1′ 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 cylindrical tower; 13.	
2608 *D 1726*	Malpica, jetty, head.	43° 19.3′ N 8° 48.1′ W	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	66 **20**	4	Green cylindrical tower; 13.	
2612 *D 1728*	**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 masonry tower, white dwelling; 33.	**Siren:** (200 meters W.) Mo.(S) ev. 30s (bl. 3s, si. 3s, bl. 3s, si. 3s, bl. 3s, si. 15s).
2613 *D 1729*	**Punta Nariga.**	43° 19.2′ N 8° 54.6′ 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**	Cylindrical tower, building; 128.	
			SPAIN-WEST COAST				
	RIA DE CORME Y LAGE:						
2616 *D 1730*	-Punta del Roncudo, N. side of bay.	43° 16.5′ N 8° 59.4′ W	**Fl.W.** period 6s	125 **38**	10	White cylindrical tower; 36.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SPAIN-WEST COAST				
2620 *D 1733*	-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 cylindrical tower; 20.	
2624 *D 1734*	-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 cylindrical tower; 20.	
2628 *D 1732*	**-Punta Lage.**	43° 13.9′ N 9° 00.7′ W	**Fl.(5)W.** period 20s	217 **66**	**20**	White cylindrical tower; 36.	
2632 *D 1736*	**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**	Octagonal tower, gray cupola; 82.	Visible 031°30′-228°30′. **AIS** (MMSI No 992242116).
	RACON		**M(– –)**		**35**		(3 & 10cm).
2636 *D 1738*	-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	White truncated conical; 23.	W. 029°30′-093°, G.-107°48′, W.-109°06′, R.-139°18′, W.-213°30′.
	RIA DE CAMARINAS:						
2640 *D 1739*	-Camarinas, end of Malecon.	43° 07.6′ N 9° 10.9′ 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	20 **6**	2	Green cylindrical tower, red band; 7.	
2644 *D 1736.3*	-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 truncated conical tower; 23.	Visible 079°30′-082°30′..
2648 *D 1736.4*	- -Rear, 612 meters 081° from front.	43° 07.5′ N 9° 11.1′ W	**Iso.W.** period 4s	89 **27**	13	White truncated conical tower; 25.	Visible 079°30′-082°30′.
2656 *D 1737*	-Punta de la Barca.	43° 06.8′ N 9° 13.2′ W	**Oc.W.** period 4s lt. 3s, ec. 1s	43 **13**	10	Gray truncated conical tower; 36.	
2660 *D 1740*	**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 cylindrical 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 *D 1742*	**Cabo Finisterre.**	42° 52.9′ N 9° 16.3′ W	**Fl.W.** period 5s fl. 0.3s, ec. 4.7s	469 **143**	**23**	Octagonal concrete tower, white 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 *D 1744*	-Puerto de Finisterre, mole, head.	42° 54.6′ N 9° 15.4′ W	**Fl.(3)R.** period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	66 **20**	5	Red and white cylindrical tower; 20.	
	RIA DE CORCUBION:						
2668 *D 1760*	-Cabo Cee, W side entrance to bay.	42° 55.0′ N 9° 11.0′ W	**Fl.(5)W.** period 13s	89 **27**	10	Octagonal concrete tower, white building; 26.	
2672 *D 1762*	-Pier, head.	42° 56.7′ N 9° 11.4′ W	**Fl.(2)R.** period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s		1	Red and white post.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SPAIN-WEST COAST				
2676 *D 1758*	-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**	10	ISOLATED DANGER BRB, tower, topmark.	
	RIA DE CAMARINAS:						
2680 *D 1756*	-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, hut; 33.	
2682 *D 1775*	-Porto Cubelo, dique exterior, head.	42° 48.4´ N 9° 08.1´ W	**Fl.G.** period 2s fl. 0.5s, ec. 1.5s	56 **17**	4	Green cylindrical tower; 20.	Visible 169°-038°.
2684 *D 1782*	**Punta Insua.**	42° 46.3´ N 9° 07.5´ 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	Hexagonal tower, metal cupola, 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° 44.3´ N 9° 04.7´ 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 masonry tower, white building; 23.	Visible 180°-081°.
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**	10	White hexagonal tower, white building; 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	White and green post; 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	Four-sided 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	Red and white cylindrical beacon; 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	Green and white cylindrical beacon; 20.	
2712 *D 1790*	--Muelle del Este, head.	42° 46.6´ N 9° 03.4´ W	**Fl.(2+1)R.** period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 3s fl. 0.5s, ec. 9s	33 **10**	1	Red post, green band; 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. 6s fl. 0.4s, ec. 2s fl. 0.4s, ec. 2s fl. 0.4s, ec. 6s	105 **32**	**15**	Cylindrical masonry tower, white cupola.	R.347°-040°-W.347°. **AIS**.
	RACON		**K(– • –)**		12		(3 & 10cm). Azimuth coverage 325°-200°.
2720 *D 1795*	Corrubedo, mole, head.	42° 34.3´ N 9° 04.2´ W	**Fl.W.R.** period 5s fl. 0.5s, ec. 4.5s	39 **12**	5	Red and white truncated conical tower; 16.	R. 077°-352°, W.-000°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SPAIN-WEST COAST				
	RIA DE AROSA:						
2724 *D 1796*	**-Isla de Salvora.**	42° 28.0´ 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.	W. 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				Visible 160°-126°.
2732 *D 1798*	-Piedras del Sargo, on E. rock.	42° 30.3´ N 9° 00.5´ W	**Q.G.**	43 **13**	8	White truncated conical tower, green band; 39.	
2736 *D 1799*	-Port Aguino, mole, head.	42° 31.1´ N 9° 00.9´ 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		5	Red post.	W. 026°-040°, R.-026°.
2738 *D 1799.5*	-Islas de Sagres.	42° 30.5´ N 9° 02.9´ W	**Fl.(3)G.** period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s		1	Green and white post.	
2740 *D 1800*	-Bajo Pomberirino, rock.	42° 28.9´ N 8° 56.8´ W	**Fl.G.** period 5s fl. 0.5s, ec. 4.5s	49 **15**	7	White truncated conical beacon, green band; 46.	
2748 *D 1816*	-Bajo La Loba, S. rock.	42° 31.8´ N 8° 55.0´ W	**Fl.(2)G.** period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	33 **10**	7	Green and white truncated conical beacon.	
	RIA DE ROSA:						
2752 *D 1824*	-Bajo Piedra Seca.	42° 32.9´ N 8° 55.2´ 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**	7	White truncated conical beacon, green band.	
2756 *D 1818*	-Isla Rua, center of island.	42° 33.0´ N 8° 56.4´ W	**Fl.(2)W.R.** period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	85 **26**	12	Cylindrical masonry tower, dwelling; 46.	W. 211°30′-121°30′, R.-211°30′. **AIS** (MMSI No 992242142).
	-RACON		**G(– – •)**				
2760 *D 1822*	-Bajo Llagareos de Tierra, on the shoal.	42° 33.4´ N 8° 59.0´ W	**Q.R.**	26 **8**	4	Red and white truncated beacon; 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 and white cylindrical 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	Masonry octagonal tower, white building; 16.	
2772 *D 1827*	-Isla de Arosa, mole, head.	42° 33.9´ N 8° 52.1´ W	**Fl.(2+1)G.** period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 3s fl. 0.5s, ec. 9s	30 **9**	3	Green cylindrical tower, red band; 20.	
2776 *D 1828*	-Bajo Sinal de Ostreira.	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.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SPAIN-WEST COAST				
2780 *D 1830*	-Puebla del Caraminal, mole, head.	42° 36.3´ N 8° 56.0´ W	**Fl.(2+1)R.** period 15s		3	Red post, green band.	
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.(2)W.R.** period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	30 **9**	3	Red post.	W. 340°-010°, R.-340°.
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.	
2804 *D 1834*	-Villanueva, Rio Curras entrance, N. side, mole, head.	42° 33.8´ N 8° 49.9´ W	**Fl.(2+1)G.** period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 3s fl. 0.5s, ec. 9s	30 **9**	1	Green and red structure.	
2807 *D 1815*	-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 cylindrical tower, white four-sided base; 16.	
2808 *D 1814*	-Breakwater, S. head.	42° 30.8´ N 8° 49.2´ W	**Fl.(2)R.** period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	30 **9**	5	Red tower; 20.	
2812 *D 1808*	--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 *D 1806*	-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	Truncated conical beacon, green band.	
2824 *D 1810*	-Bajo Golfeira.	42° 30.3´ N 8° 52.0´ W	**Q.G.**	33 **10**	3	Green and white truncated conical tower; 33.	
2828 *D 1812*	-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 cylindrical tower; 26.	
	RIA DE MARIN:						
2840 *D 1848*	-Bajo Camouco, on S. rock.	42° 23.8´ N 8° 54.8´ W	**Fl.(3)R.** period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	39 **12**	8	Red and white beacon; 43.	**AIS.**
2844 *D 1850*	-Bajo Picamillo.	42° 24.3´ N 8° 53.4´ W	**Fl.G.** period 5s fl. 0.5s, ec. 4.5s	39 **12**	8	Green and white beacon; 43.	
2848 *D 1855*	-Portonovo, Dique-muelle, head.	42° 23.6´ N 8° 49.2´ W	**Fl.(2)R.** period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	33 **10**	5	Red and white tower; 20.	
2852 *D 1856*	-Sangenjo, N. side of bay, mole, head.	42° 23.9´ N 8° 48.3´ W	**Fl.R.** period 5s fl. 0.5s, ec. 4.5s	23 **7**	5	Red cylindrical tower; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SPAIN-WEST COAST				
2854 *D 1858*	-Puerto de Rajo, mole, head.	42° 24.1´ N 8° 45.3´ 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	26 **8**	5	Red cylindrical tower; 26.	
2856 *D 1860*	-Punta Tenlo Chico, Isla Tambo.	42° 24.5´ N 8° 42.5´ W	**Fl.(3)W.** period 8s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 3s	115 **35**	11	Cylindrical masonry tower, truncated conical base; 56.	
	-Pontevedra:						
2860 *D 1862*	--N. jetty, head.	42° 24.9´ N 8° 41.5´ W	**Fl.R.** period 5s fl. 0.5s, ec. 4.5s	23 **7**	5	White four-sided beacon, base.	2 Fl.R. 3s on training wall.
2864 *D 1864*	--S. Jetty, head.	42° 24.8´ N 8° 41.2´ W	**Fl.G.** period 5s fl. 0.5s, ec. 4.5s	16 **5**	3	Green post.	2 Fl.G. on training wall.
2866 *D 1865.6*	-Combarro, mole, head.	42° 25.8´ N 8° 42.3´ W	**Fl.R.** period 5s fl. 0.5s, ec. 4.5s	23 **7**	1	Red and white post; 20.	
2868 *D 1866*	-Marin, W. mole, head.	42° 23.9´ N 8° 42.3´ W	**Fl.G.** period 5s fl. 0.5s, ec. 4.5s	30 **9**	5	Green column, white base; 20.	
2880 *D 1870*	-Bueu, mole, head.	42° 19.7´ N 8° 47.1´ W	**Fl.R.** period 5s fl. 0.5s, ec. 4.5s	23 **7**	3	Red tower; 10.	
2888 *D 1872*	-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	Green and white beacon; 43.	
2896 *D 1873*	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 truncated conical tower; 16.	G. 060°-096°, W.-190°, G.-000°.
2900 *D 1873.4*	Aldan wharf.	42° 17.0´ N 8° 49.4´ W	**Fl.(3)R.** period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	26 **8**	5	Red cylindrical tower, red base; 23.	
	RIA DE VIGO:						
2904 *D 1874*	-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 cylindrical tower; 19.	R. 115°30′-170°30′, W. 300°30′-321°30′, R.-090°.
	-RACON		**C(– • – •)**		**22**		(3 & 10cm).
2908 *D 1876*	-Cabo del Home Range, front, on Cabo del Home.	42° 15.2´ N 8° 52.4´ W	**Fl.W.** period 3s fl. 1s, ec. 2s	124 **38**	9	White cylindrical tower; 59.	Visible 090°-180°.
2912 *D 1876.1*	--Punta Subrido, rear, 815 meters 129° from front.	42° 14.9´ N 8° 51.9´ W	**Oc.W.** period 6s lt. 4.5s, ec. 1.5s	174 **53**	11	White cylindrical tower; 43.	Visible 090°-180°.
	-Islas Cies:						
2916 *D 1882*	--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	White cylindrical tower, white wall; 16.	Visible 146°30′-334°.
2920 *D 1884*	**--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**	Cylindrical tower, white cupola, dwelling; 33.	Visible 016°30′-315°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SPAIN-WEST COAST				
2924 *D 1886*	--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 cylindrical tower; 33.	
2928 *D 1888*	--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	Red and white cylindrical tower; 23.	Visible 210°30′-108°.
2932 *D 1889*	--Isla Boeiro.	42° 10.8′ 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	Red and white truncated conical tower; 20.	
2936 *D 1891*	-Punta Lameda, S. entrance point of bay, E. side.	42° 09.4′ N 8° 51.0′ W	**Fl.(2)G.** period 8s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	95 **29**	5	White cylindrical tower; 13.	
2938 *D 1907*	-Las Serralleiras.	42° 08.8′ N 8° 52.7′ W	**Fl.G.** period 4s fl. 0.4s, ec. 3.6s	36 **11**	5	White and green truncated conical tower; 20.	
2940 *D 1890*	**-Cabo Estay** Range, front.	42° 11.1′ N 8° 48.9′ W	**Iso.W.** period 2s	59 **18**	**18**	Red four-sided 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(– • • •)** period 72s		**22**		(3cm).
2944 *D 1890.1*	--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**	White four-sided tower, red bands; 23.	Visible 066°18′-072°18′.
2948 *D 1893*	-Canido (Toralla) Range, front, breakwater, head.	42° 11.7′ N 8° 48.1′ W	**Q.G.**	39 **12**	5	White and green truncated conical tower; 23.	
2949 *D 1893.1*	--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 *D 1894*	-Bajo Tofino No 3.	42° 13.7′ N 8° 46.7′ 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**	7	Green cylindrical beacon, white lower portion marked 3.	
2957 *D 1895.55*	-Al Cabre.	42° 13.5′ N 8° 46.1′ W	**Q.G.**	20 **6**	1	Metal post; 10.	
2960 *D 1892*	-Piedra Borneira, No 6.	42° 14.5′ N 8° 47.5′ W	**Fl.(2)R.** period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	43 **13**	7	Red and white beacon; 36.	**Radar reflector.**
2962 *D 1894.5*	-Dique Frigorificos del Morrazo, head.	42° 15.3′ N 8° 47.1′ W	**Fl.(2)R.** period 7s	23 **7**	3	Red cylindrical tower; 16.	Visible 080°-360°.
2964 *D 1895*	-Cangas, outer mole, head.	42° 15.6′ N 8° 46.8′ W	**Fl.R.** period 5s fl. 0.5s, ec. 4.5s	33 **10**	5	Red and white cylindrical tower; 20.	
2968 *D 1895.4*	--Inner mole, head.	42° 15.6′ 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 *D 1895.5*	--Passenger wharf, head.	42° 15.7′ N 8° 47.0′ W	**Fl.G.** period 4s fl. 0.5s, ec. 3.5s		1	White and green post.	
2971 *D 1895.94*	-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 cylindrical tower, red band; 20.	Visible 110°-061°. **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 *D 1895.97*	--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 *D 1895.98*	---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 *D 1896*	--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.	Visible 110°-061°. **Radar reflector.**
2976 *D 1895.8*	-Ferry jetty, NE. corner.	42° 14.1´ N 8° 45.1´ W	**Fl.G.** period 5s fl. 0.5s, ec. 4.5s	33 **10**	5	Green tower; 13.	Visible 072°-319°.
2978 *D 1895.7*	--NW. corner.	42° 13.8´ N 8° 45.8´ W	**Q.W.**	26 **8**	7	N. CARDINAL BY, beacon, topmark; 16.	**Radar reflector.**
2980 *D 1895.9*	--E. corner.	42° 14.1´ N 8° 45.0´ W	**Fl.G.** period 5s fl. 0.5s, ec. 4.5s	33 **10**	5	Green cylindrical tower; 13.	Visible 156°30′-066°30′.
	-Vigo:						
2988 *D 1898*	--Muelle del Berbes, NE. head.	42° 14.4´ N 8° 43.9´ 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 tower; 19.	
2992 *D 1900*	--Muelle Trasatlanticos, W. head.	42° 14.4´ N 8° 43.9´ W	**Fl.(2)R.** period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	33 **10**	5	Masonry truncated conical tower; 20.	**Radar reflector.**
2996 *D 1900.2*	---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 *D 1901*	--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 *D 1901.2*	--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 *D 1897*	--Darsena No 4, breakwater, head.	42° 14.1´ N 8° 44.2´ W	**Fl.R.** period 5s fl. 0.5s, ec. 4.5s	33 **10**	5	Metal cylindrical tower; 20.	Visible 300°-200°. **Radar reflector.**
3010 *D 1901.3*	--Lagoa Marina, breakwater, head.	42° 15.5´ N 8° 42.5´ W	**Q.G.**		5	Green cylindrical column; 10.	
3012 *D 1901.5*	**-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 cylindrical 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.
3013 *D 1904.4*	--E. breakwater, head.	42° 15.6´ N 8° 41.5´ 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	20 **6**	3	Red post; 16.	
3014 *D 1904.6*	-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 and white cylindrical tower.	Visible 074°-341°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SPAIN-WEST COAST				
3016 *D 1895.6*	-El Pego bank.	42° 15.5´ N 8° 44.9´ 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	30 **9**	5	Red cylindrical beacon, white octaganol base; 13.	**Radar reflector.**
3020 *D 1901.6*	-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 and white cylindrical tower; 20.	
3024 *D 1902*	-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 and white post; 20.	
3029 *D 1902.6*	--Breakwater, head.	42° 16.9´ N 8° 43.1´ W	**Fl.(2)R.** period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	23 **7**	5	Red cylindrical tower; 13.	
3032 *D 1912*	-Punta Tenaza, Bayona, mole, head.	42° 07.5´ N 8° 50.7´ W	**Q.G.**	39 **12**	5	White and green tower; 29.	
3040 *D 1911*	-Cabezo de San Juan (Pego Shoal) Range, front.	42° 08.2´ N 8° 50.1´ W	**Fl.W.** period 6s fl. 0.5s, ec. 5.5s	30 **9**	10	White truncated conical beacon.	
3044 *D 1911.1*	**--Panjon,** rear, 084° from front.	42° 08.3´ N 8° 48.8´ W	**Dir.W.R.G.** period 4s	62 **19**	W. **18** R. **15** G. 14	Gray masonry truncated conical tower, gray building; 30.	Oc.G. 079°-083°, Oc.W.-085°, Oc.R.-088°.
3048 *D 1914*	-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 cylindrical tower; 23.	Visible 110°-060°.
3052 *D 1916*	**Cabo Silleiro.**	42° 06.3´ 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, red structure; 98.	
	LA GUARDIA:						
3066 *D 1920.5*	-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 cylindrical tower; 10.	
3068 *D 1921*	-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 and white tower; 10.	
3072 *D 1924*	Camposancos, Rio Mino, N. bank, mole.	41° 53.3´ N 8° 51.0´ W	**Fl.R.** period 5s fl. 0.5s, ec. 4.5s	26 **8**	5	Red cylindrical tower, white band; 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 *D 2002*	Insua.	41° 51.5′ N 8° 52.4′ 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 *D 2003*	Moledo Range, front.	41° 50.0′ N 8° 52.0′ W	**Oc.R.** period 5s lt. 3s, ec. 2s	43 **13**	6	White post, red bands; 10.	
3084 *D 2003.1*	-Rear, 24 meters 099°18′ from front.	41° 50.9′ N 8° 51.9′ W	**Oc.R.** period 5s lt. 3s, ec. 2s	56 **17**	6	White post, red bands; 26.	
3090 *D 2006*	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 column, red bands; 26.	**Siren:** 1 bl. ev. 60s (bl. 10s, si. 50s).
3096 *D 2008*	**Cabo Montedor.**	41° 45.1′ N 8° 52.4′ W	**Fl.(2)W.** period 9.5s fl. 0.2s, ec. 1.7s fl. 0.2s, ec. 7.4s	328 **100**	**22**	Gray tower, red cupola, gray building; 92.	
	VIANA DO CASTELO:						
3099 *D 2012.8*	-Outer breakwater, head.	41° 40.4′ N 8° 50.7′ W	**Fl.R.** period 3s fl. 1s, ec. 2s		9	White column, red bands.	
3100 *D 2012*	-Rio Lima, Barra Sul, entrance Range, front.	41° 40.4′ N 8° 50.7′ W	**Iso.R.** period 4s	56 **17**	5	Red tower, white stripes, white cupola; 20.	Visible 241°-151°.
3104 *D 2012.1*	--Senhora da Agonia, rear, 505 meters 012°30′ from front.	41° 41.6′ N 8° 50.3′ W	**Oc.R.** period 6s lt. 4s, ec. 2s	108 **33**	5	Red tower, white stripes, white cupola; 30.	Visible 005°-020°.
3124 *D 2015.1*	Rio Nieva.	41° 37.2′ N 8° 48.7′ W	**Dir.Oc.W.R.G.** period 6s lt. 4s, ec. 2s	72 **22**	6	White post, red bands, two orange triangular daymarks points together.	G. 058°54′-063°54′, W.-065°54′, R.-070°54′.
3128 *D 2016*	**Esposende.**	41° 32.6′ N 8° 47.4′ W	**Fl.W.** period 5s fl. 0.1s, ec. 4.9s	65 **20**	**20**	Red tower, yellow building; 49.	
3132 *D 2016.2*	Apulia Range, front.	41° 29.1′ N 8° 46.8′ W	**Fl.R.** period 2s fl. 0.3s, ec. 1.7s	46 **14**	6	White post, red bands; 23.	Visible 340°24′-160°24′. **Siren:** 1 bl. ev. 75s (bl. 15s, si. 60s).
3136 *D 2016.21*	-Rear, 55 meters 070°18′ from front.	41° 29.0′ N 8° 47.0′ W	**L.Fl.R.** period 6s fl. 2s, ec. 4s	69 **21**	6	Lantern, red daymark, yellow stripes; 46.	Visible 340°24′-160°24′.
	POVOA DE VARZIM:						
3160 *D 2020.4*	-Molhe Norte, head.	41° 22.2′ N 8° 46.3′ W	**Fl.R.** period 3s fl. 1s, ec. 2s	46 **14**	12	White tower, red bands; 16.	**Siren:** 1 bl. ev. 40s (bl. 15s, si. 25s).
3164 *D 2020.6*	-Molhe Sul, head.	41° 22.3′ N 8° 46.1′ W	**L.Fl.G.** period 6s fl. 2s, ec. 4s	46 **14**	4	White post, green bands; 13.	
	VILA DO CONDE:						
3188 *D 2024*	-Bar Range, front, N. side of entrance to Rio Ave.	41° 20.6′ N 8° 44.9′ W	**Oc.R.** period 3s lt. 2s, ec. 1s	23 **7**	6	White column, red bands; 13.	Second entrance range.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			PORTUGAL				
3192 *D 2024.1*	--Rear, about 35 meters 356° 42′ from front.	41° 20.6′ N 8° 44.9′ W	**Oc.R.** period 3s lt. 2s, ec. 1s	26 **8**	6	White column, red bands; 16.	
3196 *D 2023*	-Azurara, first Range, front.	41° 20.2′ N 8° 44.4′ W	**Iso.G.** period 4s	33 **10**	6	White post, red bands; 23.	
3200 *D 2023.1*	--Rear, 260 meters 080°06′ from front.	41° 20.2′ N 8° 44.0′ W	**Iso.G.** period 4s	89 **27**	6	White building, red bands, triangular top; 20.	
3204 *D 2023.7*	-N. mole, head.	41° 20.2′ N 8° 45.0′ W	**Fl.R.** period 4s fl. 1s, ec. 3s	30 **9**	9	White column, red bands; 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	White column, red bands; 20.	
3212 *D 2027.1*	-Rear, 144 meters 046°06′ from front.	41° 17.5′ N 8° 43.9′ W	**Fl.R.** period 3s fl. 1s, ec. 2s	49 **15**	6	White column, red bands; 20.	
3216 *D 2028.4*	Angeiras, first entrance Range, front.	41° 15.9′ N 8° 43.6′ W	**Oc.R.** period 6s lt. 4s, ec. 2s	39 **12**	6	White post, red bands; 16.	Leads to shelter at sea south of Leixoes.
3220 *D 2028.5*	-Rear, 24 meters 042° from front.	41° 15.8′ N 8° 43.6′ W	**Oc.R.** period 6s lt. 4s, ec. 2s	49 **15**	6	White post, red bands; 16.	**Siren:** 1 bl. ev. 60s (bl. 30s, si. 30s).
3224 *D 2029*	Angeiras Range, front.	41° 15.8′ N 8° 43.6′ W	**Oc.G.** period 5s lt. 3s, ec. 2s	36 **11**	5	White post, green bands; 16.	
3228 *D 2029.1*	--Rear, 232 meters 062° from front.	41° 15.8′ N 8° 43.4′ W	**Oc.G.** period 5s lt. 4s, ec. 1s	62 **19**	5	White post, green bands; 16.	
3236 *D 2032*	**Leca.**	41° 12.1′ N 8° 42.7′ 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 tower, black bands, red cupola; 151.	F.R. lights are shown from radio masts at Boa Nova.
3240 *D 2034*	-Quebra-mar, oil terminal, head.	41° 10.4′ N 8° 42.5′ W	**Fl.W.R.** period 5s fl. 0.5s, ec. 4.5s	79 **24**	W. 12 R. 9	White tower, red lantern; 33.	R. 001°-180°, W.-001°. **Horn:** 1 bl. ev. 20s (bl. 5s, si. 15s).
3244 *D 2036*	-S. breakwater, head.	41° 10.7′ N 8° 42.3′ W	**Fl.G.** period 4s fl. 1s, ec. 3s	56 **17**	7	White tower, green lantern; 33.	Visible 328°-285°. **Horn:** 1 bl. ev. 30s (bl. 10s, si. 20s).
3248 *D 2038*	-N. breakwater spur, head.	41° 10.7′ N 8° 42.5′ W	**Fl.R.** period 4s fl. 1s, ec. 3s	29 **9**	6	Red structure, red lantern; 13.	
3249 *D 2037*	-Cais Oeste.	41° 11.1′ N 8° 42.3′ W	**L.Fl.(2)R.** period 12s fl. 2s, ec. 3s fl. 2s, ec. 5s	16 **5**	2	White post, red bands; 10.	
	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	59 **18**	6	White tower, green bands.	
3254 *D 2045.5*	-N. mole, pier, head.	41° 08.7′ N 8° 40.8′ W	**Fl.R.** period 5s fl. 0.5s, ec. 4.5s	72 **22**	9	White tower, red bands; 20.	
3255 *D 2047*	-Barra Foz Range, front.	41° 08.9′ N 8° 40.3′ W	**Oc.Y.** period 5s lt. 3s, ec. 2s	56 **17**	6	Red column, white bands; 20.	Daytime range 3M.
3255.5 *D 2047.1*	--Rear, about 275 meters 059°18′ from front.	41° 08.9′ N 8° 40.1′ W	**Oc.Y.** period 5s lt. 3s, ec. 2s	125 **38**	6	Lantern.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			PORTUGAL				
3264 *D 2052*	Praia da Aguda Range, front.	41° 02.8´ N 8° 39.2´ W	**L.Fl.R.** period 6s fl. 2s, ec. 4s	46 **14**	6	White post, red bands; 26.	Visible 002°06´-137°06´. **Siren:** 1 bl. ev. 30s (bl. 10s, si. 20s).
3268 *D 2052.1*	-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	White post, red bands; 39.	Visible 002°06´-137°06´.
3269 *D 2052.5*	-E.	40° 58.4´ N 8° 38.9´ W	**Fl.Y.** period 5s fl. 1s, ec. 4s	33 **10**	9	Tower, black structure, yellow bands; 13.	Marks outfall.
3270 *D 2059.59*	-J, on beach.	40° 40.4´ N 8° 44.5´ W	**Fl.Y.** period 5s fl. 1s, ec. 4s	33 **10**	9	Tower, black structure, yellow bands; 13.	
3271 *D 2057*	-N. mole, head.	40° 38.5´ N 8° 45.9´ W	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s	56 **17**	8	White tower, red bands; 33.	
3272 *D 2056*	**Aveiro.**	40° 38.6´ N 8° 44.9´ 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**	White tower, red bands, red cupola, building; 203.	Aeromarine light.
3284 *D 2060*	**Cabo Mondego.**	40° 11.5´ N 8° 54.3´ W	**Fl.W.** period 5s fl. 0.2s, ec. 4.8s	318 **97**	**28**	White tower, red cupola, white building; 49.	
	FIGUEIRA DA FOZ:						
3296 *D 2066*	-N. mole, head.	40° 08.6´ N 8° 52.7´ W	**Fl.R.** period 6s fl. 1.5s, ec. 4.5s	46 **14**	9	White tower, red bands; 30.	**Horn:** 1 bl. ev. 35s (bl. 10s, si. 25s).
3300 *D 2068*	-S. mole, head.	40° 08.6´ N 8° 52.4´ W	**Fl.G.** period 6s fl. 0.6s, ec. 5.4s	46 **14**	7	White column, green bands; 23.	
3304 *D 2069*	-Bar Range, front.	40° 08.8´ N 8° 51.9´ W	**Iso.R.** period 5s	23 **7**	4	White column, red bands; 13.	
3308 *D 2069.1*	- -Rear, 239 meters 081°30´ from front.	40° 08.8´ N 8° 51.0´ W	**Oc.R.** period 6s lt. 4s, ec. 2s	36 **11**	4	White column, red bands; 23.	
3312 *D 2072*	**Penedo da Saudade.**	39° 45.8´ N 9° 01.9´ W	**Fl.(2)W.** period 15s fl. 0.2s, ec. 3.5s fl. 0.2s, ec. 11.1s	171 **52**	**30**	Brown tower, red cupola, red building; 105.	Aeromarine light.
3316 *D 2074*	Nazare, fort (Morro de Nazare), SW. corner.	39° 36.3´ N 9° 05.1´ W	**Oc.W.** period 3s lt. 2s, ec. 1s		14	Red cupola, wall of fort; 13.	Visible 282°-192°.
	SAO MARTINHO DO PORTO:						
3320 *D 2076*	-Ponta de Santo Antonio.	39° 30.6´ N 9° 08.6´ W	**L.Fl.R.** period 6s fl. 2s, ec. 4s	108 **33**	9	White column, red bands, white structure.	**Siren:** 1 bl. ev. 60s (bl. 4s, si. 56s).
3324 *D 2078*	-Range, front.	39° 30.1´ N 9° 08.3´ W	**Iso.R.** period 1.5s	33 **10**	9	White column, red bands.	
3328 *D 2078.1*	- -Rear, 129 meters 145°06´ from front.	39° 30.1´ N 9° 08.2´ W	**Oc.R.** period 6s lt. 5s, ec. 1s	39 **12**	10	White column, red bands, white tower.	
3332 *D 2084*	Farilhaos.	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	White tower, red bands; 20.	
3336 *D 2086*	**Berlenga.**	39° 24.9´ N 9° 30.6´ W	**Fl.W.** period 10s fl. 1s, ec. 9s	397 **121**	**16**	White tower, red cupola, white building; 95.	**Horn:** 1 bl. ev. 28s (bl. 6s, si. 22s).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			PORTUGAL				
3340 *D 2088*	**Cabo Carvoeiro.**	39° 21.6´ N 9° 24.5´ W	**L.Fl.R.** period 6s fl. 2s, ec. 4s	187 **57**	**15**	White tower, red cupola, white building; 89.	**Horn:** 1 bl. ev. 35s (bl. 10s, si. 25s).
	PENICHE:						
3352 *D 2096*	-E. mole, head.	39° 21.0´ N 9° 22.4´ W	**Fl.G.** period 3s fl. 1s, ec. 2s	46 **14**	9	White tower, green bands; 26.	
3356 *D 2094*	-W. mole, head.	39° 20.9´ N 9° 22.5´ W	**Fl.R.** period 3s fl. 1s, ec. 2s	46 **14**	9	White tower; red bands; 26.	**Siren:** 1 bl. ev. 120s (bl. 25s, si. 95s).
3360 *D 2098*	Porto das Barcas.	39° 13.8´ N 9° 20.5´ W	**L.Fl.R.** period 6s fl. 2s, ec. 4s	98 **30**	6	White post, red bands; 33.	
3364 *D 2100*	Porto Dinheiro.	39° 12.8´ N 9° 20.6´ W	**Oc.W.** period 3s lt. 2s, ec. 1s	66 **20**	9	Red lantern; 16.	
3368 *D 2102*	Assenta, S. of Ponta da Lamparoeira.	39° 03.5´ N 9° 24.9´ W	**L.Fl.W.** period 5s fl. 2s, ec. 3s	262 **80**	13	White structure, red lantern; 13.	
3372 *D 2106*	Ericeira.	38° 57.8´ N 9° 25.0´ W	**Oc.R.** period 3s lt. 2s, ec. 1s	115 **35**	6	White concrete sentry box, black square daymark; 26.	**Siren:** 1 bl. ev. 70s (bl. 16s, si. 54s).
3376 *D 2108*	**Cabo da Roca.**	38° 46.9´ 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, red cupola, buildings; 72.	
3380 *D 2110*	**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 tower, white building; 43.	Visible 324°-189°.
	LISBOA:						
3388 *D 2118*	**-Forte Santa Marta,** Barra do Norte Range, front.	38° 41.4´ N 9° 25.3´ W	**Oc.W.R.** period 6s lt. 4.5s, ec. 1.5s	82 **25**	W. **18** R. 14	White tower, blue bands, red cupola; 66.	R. 233°-334°, W.-098°.
3389 *D 2114*	**-Guia,** rear, 2287 meters 284°42′ from front.	38° 41.7´ N 9° 26.8´ W	**Iso.W.R.** period 2s	190 **58**	W. **19** R. **16**	White tower, red cupola, yellow building; 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	White column, red bands.	
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	White post, green bands; 16.	Visible 315°-225°.
3398 *D 2123*	-Carcavelos.	38° 40.9´ N 9° 20.8´ W	**Iso.W.R.** period 3s	59 **18**	9	Yellow 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	135 **41**	14	Stone tower, red cupola; 79.	
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.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			PORTUGAL				
3404 *D 2126*	**-Fort Bugio.**	38° 39.6′ N 9° 17.9′ W	**Fl.G.** period 5s fl. 1s, ec. 4s	92 **28**	12	White column, red lantern, white building; 46.	**Horn:** Mo.(B) ev. 30s (bl. 6s, si. 2s, bl. 2s, si. 2s, bl. 2s, si. 2s, bl. 2s, si. 12s).
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, lantern; 16.	
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, lantern; 16.	
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, red cupola; 69.	Visible 039°30′-054°30′. Daytime range 5M.
3410 *D 2127.1*	**--Mama,** rear, 762 meters 047°06′ from front.	38° 43.6′ N 9° 13.6′ W	**Oc.R.** period 6s lt. 4s, ec. 2s	259 **79**	**21**	White tower, red bands, red cupola, white building; 49.	Visible 039°30′-054°30′.
	RACON		**Q(– – • –)**				
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 column, 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**	White tower, red bands, white structure.	Visible 045°30′-048°30′. In line 047°06′ and synchronized with 3408 and 3410.
3416 *D 2127.4*	-Doca de Pedroucos, W. mole, head.	38° 41.6′ N 9° 13.5′ W	**Fl.R.** period 2s fl. 0.5s, ec. 1.5s	33 **10**	5	White column, red bands; 16.	
3420 *D 2127.6*	--E. mole, head.	38° 41.6′ N 9° 13.5′ W	**Fl.G.** period 2s fl. 0.5s, ec. 1.5s	33 **10**	5	White column, green bands; 16.	
3424 *D 2129*	-Doca do Bom Sucesso, entrance, W. side.	38° 41.5′ N 9° 12.7′ W	**F.R.**	36 **11**		White metal structure, red lantern.	5 groups of towers, each showing a F.R. light, are located at Alges de Cima.
3428 *D 2129.2*	--E. side.	38° 41.5′ N 9° 12.7′ W	**F.G.**	36 **11**		White metal structure, green lantern.	
3432 *D 2128*	-Portinho da Costa, NATO fuel pier, E. head.	38° 40.6′ N 9° 13.4′ 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	Metal post.	
3436 *D 2128.5*	---W. head.	38° 40.5′ N 9° 13.3′ W	**Fl.(2)G.** period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	13 **4**	2	Metal post.	
3438 *D 2127.2*	-EPAC pier, W. side.	38° 40.6′ N 9° 14.3′ W	**Q.W.**	26 **8**	4	Post; 7.	
3438.5 *D 2127.25*	--E. side.	38° 40.6′ N 9° 14.0′ W	**Q.W.**	26 **8**	4	Post; 7.	
3439 *D 2127.18*	-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 *D 2127.181*	--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.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			PORTUGAL				
3439.4 *D 2127.182*	---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 *D 2127.183*	--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 *D 2130*	-Doca de Belem, entrance, W. side.	38° 41.6′ N 9° 12.3′ W	**F.R.**	36 **11**		White metal structure, red lantern.	
3444 *D 2130.2*	--E. side.	38° 41.6′ N 9° 12.2′ W	**F.G.**	36 **11**		White metal structure, green lantern.	
3448 *D 2130.4*	-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°. 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 *D 2130.6*	--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°. 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		
3453 *D 2132*	-Doca da Marinha Entrance, W. side.	38° 42.5′ N 9° 07.9′ W	**F.R.**	36 **11**	2	White metal structure, red lantern.	
3453.5 *D 2132.2*	--E. side.	38° 42.5′ N 9° 07.8′ W	**F.G.**	36 **11**	2	White metal structure, green lantern.	
3462 *D 2133.4*	-Lisnave.	38° 41.3′ N 9° 08.6′ W	**Fl.G.** period 2s fl. 0.5s, ec. 1.5s	13 **4**	3	White post, green bands.	Rio Tejo marked by buoys and beacons.
3463 *D 2134.46*	Olivais, pier, elbow.	38° 45.6′ 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 *D 2134.2*	--Entrance Range, front.	38° 40.0′ N 9° 08.9′ W	**Oc.G.** period 3s lt. 2s, ec. 1s	89 **27**	7	Structure, white and red diagnol stripes, green lantern; 16.	Daytime range 3M.
3468 *D 2134.21*	---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 column, red bands; 16.	Daytime range 3M.
3472	--*Buoy 2B.*	38° 40.8′ N 9° 08.2′ W	**Q.R.**		3	PORT (A) R, can, topmark; 10.	
	--RACON		**B(– • • •)**				
3480 *D 2134.3*	-Arsenal do Alfeite, E. mole.	38° 40.3′ N 9° 08.5′ W	**L.Fl.R.** period 5s fl. 2s, ec. 3s	26 **8**	8	White column, red bands; 16.	
3481 *D 2134.35*	--W. mole.	38° 40.4′ N 9° 08.8′ W	**L.Fl.G.** period 5s fl. 2s, ec. 3s	23 **7**	7	White tower, green bands; 10.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			PORTUGAL				
3488 *D 2135.8*	-Rio Coina, bridge, S. tower.	38° 38.9′ N 9° 04.7′ 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 *D 2136*	--Pilar.	38° 38.9′ N 9° 06.0′ W	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s	20 **6**	6	Red and white column; 7.	
3496 *D 2136.1*	--Seca.	38° 38.9′ N 9° 06.0′ W	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	26 **8**	5	Green post; 16.	
	-Canal do Montijo:						
3504 *D 2136.25*	--Central Electric, jetty, head.	38° 41.0′ N 9° 03.5′ W	**L.Fl.G.** period 10.5s fl. 4s, ec. 6.5s		3	Tower, green lantern.	
3505 *D 2136.5*	--Outfall, BA6.	38° 42.3′ N 9° 03.1′ W	**Fl.Y.** period 6s fl. 1s, ec. 5s	13 **4**	3	SPECIAL Y, beacon, "X" topmark.	
	SESIMBRA:						
3507 *D 2138.5*	-ETAR Meco.	38° 29.6′ N 9° 10.8′ W	**Fl.Y.** period 5s fl. 1s, ec. 4s		3	SPECIAL Y, post, topmark; 13.	Marks pipeline.
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 tower, red cupola, white building; 102.	Aeromarine light.
3512 *D 2140*	-Forte do Cavalo, bay, W. side.	38° 26.1′ N 9° 07.0′ W	**Oc.W.** period 5s lt. 3s, ec. 2s	115 **35**	14	Red tower, cupola; 23.	
3516 *D 2144*	-New mole, head.	38° 26.4′ N 9° 06.4′ W	**Fl.R.** period 3s fl. 1s, ec. 2s		8	White tower, red 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, "X" 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	Red lantern; 33.	
3524 *D 2142.1*	--Rear, 34 meters 003°30′ from front.	38° 26.5′ N 9° 06.0′ W	**L.Fl.R.** period 5s fl. 2s, ec. 3s	72 **22**	6	Red lantern; 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 point up.	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 point up.	
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 point up.	
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	Orange triangular daymark point up.	Marks NW. limit of submarine cable area.
3526.4 *D 2145.31*	--Rear, 237° from front.	38° 26.5′ N 9° 04.7′ W	**Fl.W.** period 3.5s fl. 0.4s, ec. 3.1s	886 **270**	6	Orange triangular daymark point up.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			PORTUGAL				
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 point up.	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 point up.	
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 point up.	
	SETUBAL:						
3532 *D 2150.22*	-Beacon No 2.	38° 27.2′ N 8° 58.5′ W	**Fl.(2)R.** period 10s fl. 1s, ec. 1s fl. 1s, ec. 7s	46 **14**	9	White column, red bands, red rectangular daymark.	
	-RACON		**B(– • • •)** period 60s		**15**		
3540 *D 2150.26*	-Beacon No 4.	38° 27.9′ N 8° 57.7′ W	**Fl.R.** period 4s fl. 0.5s, ec. 3.5s	46 **14**	4	Red and white checkered column, red rectangular daymark.	**Radar reflector.**
3544 *D 2150.28*	-Beacon No 5.	38° 29.2′ N 8° 55.4′ W	**Fl.G.** period 4s fl. 0.5s, ec. 3.5s	46 **14**	4	Black column, green rectangular daymark.	**Radar reflector.**
3548 *D 2152*	**-Canal da Sapie Range,** front, Algarve Exportador.	38° 31.2′ N 8° 53.7′ W	**Oc.R.** period 4s lt. 3s, ec. 1s	49 **15**	**15**	Red lantern.	
3552 *D 2152.1*	**--Anunciada,** rear, 538 meters 296°30′ from front.	38° 31.3′ N 8° 54.0′ W	**Iso.R.** period 4s	79 **24**	**15**	Red lantern.	
3556 *D 2150*	-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	Structure, red cupola; 36.	
3560 *D 2150.4*	-Albarquel.	38° 30.7′ N 8° 54.8′ W	**Iso.R.** period 2s	52 **16**	6	Red lantern.	
3564 *D 2151*	**-Doca Pesca Range,** E. pier, front.	38° 31.1′ N 8° 54.0′ W	**Iso.Y.** period 6s	46 **14**	**22**	White tower, red bands; 36.	
3565 *D 2152.3*	-Naval Club, W. pier.	38° 31.2′ N 8° 53.6′ W	**Fl.(2)R.** period 4s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2s	30 **9**	3	Post; 10.	
3565.1 *D 2152.5*	--E. pier.	38° 31.2′ N 8° 53.6′ W	**Fl.(2)G.** period 4s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2s	30 **9**	3	Post; 10.	
3565.2 *D 2152.7*	-Fontainhas Marina, W. pier.	38° 31.2′ N 8° 53.2′ W	**Fl.(3)R.** period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2.5s	30 **9**	3	Post; 10.	
3565.3 *D 2152.9*	--E. pier.	38° 31.2′ N 8° 53.1′ W	**Fl.(3)G.** period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2.5s	30 **9**	3	Post; 10.	
3566 *D 2150.34*	-Quebra Marina, breakwater, head.	38° 29.7′ N 8° 54.2′ W	**Q.(2)R.** period 6s fl. 0.3s, ec. 0.7s fl. 0.3s, ec. 4.7s	13 **4**	3	Post; 10.	
3566.1 *D 2150.37*	-Molhe Oeste.	38° 29.6′ N 8° 54.2′ W	**Q.(2)G.** period 6s fl. 0.3s, ec. 0.7s fl. 0.3s, ec. 4.7s	26 **8**	3	Post; 13.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			PORTUGAL				
3566.2 *D 2156.5*	-Troia N.	38° 28.6′ N 8° 52.3′ W	**Fl.G.** period 5s fl. 0.5s, ec. 4.5s	23 **7**	5	Post; 13.	
3566.3 *D 2156.6*	-Troia S.	38° 28.4′ N 8° 52.2′ W	**Fl.(2)G.** period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 8s	23 **7**	5	Post; 13.	
3566.4 *D 2156.8*	-Troia Ferries, N. pier.	38° 28.1′ N 8° 51.8′ W	**Fl.(3)G.** period 12s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 6.5s	30 **9**	5	Post; 20.	
3566.5 *D 2156.9*	--S. pier.	38° 28.0′ N 8° 51.7′ 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	30 **9**	5	Post; 20.	
3568 *D 2151.1*	**--Azeda,** rear, 2.8 km. 039°42′ from front.	38° 32.3′ N 8° 52.7′ W	**Iso.Y.** period 6s	200 **61**	**22**	White tower, red bands, red cupola; 102.	Visible 038°18′-041°18′.
3569 *D 2157.4*	-S. dolphin.	38° 28.3′ N 8° 48.5′ W	**Q.(5)W.** period 8s	26 **8**	6	Gray post; 10.	Q.(3)W. 5s 8m 6M light marks dolphin close N.
3569.5 *D 2157.3*	--SE.	38° 28.2′ N 8° 47.9′ W	**Q.(3)W.** period 5s	26 **8**	6	Gray post; 10.	Q.(3)W. 5s 8m 6M and Q.(5)W. 8s 8m 6M lights mark 3 dolphins close E.
3570 *D 2158*	Pinheiro da Cruz.	38° 15.5′ N 8° 46.3′ W	**Fl.W.** period 3s fl. 1s, ec. 2s	220 **67**	9	White column, red bands.	
	SINES:						
3572 *D 2160*	**-Cabo de Sines.**	37° 57.6′ N 8° 52.8′ W	**Fl.(2)W.** period 15s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 9.5s	184 **56**	**26**	White tower, red cupola, white building; 92.	Reserve light range 21M. Obscured 001°-003° and 004°-007° within 17M. 4 Iso.R. 3M lights on dolphins SW.
3582 *D 2160.36*	--Mole.	37° 57.1′ N 8° 52.2′ W	**Fl.R.** period 6s fl. 1.5s, ec. 4.5s		6	White tower, red bands, white balcony; 13.	
3583 *D 2160.16*	--W. mole.	37° 56.5′ N 8° 53.3′ W	**Fl.W.** period 3s fl. 1s, ec. 2s	69 **21**	12	White tower, red bands; 26.	
3587 *D 2160.5*	Ponta da Gaivota.	37° 51.1′ N 8° 47.8′ W	**Fl.W.** period 6s fl. 1.5s, ec. 4.5s	66 **20**	13	Red column, white bands; 16.	
3588 *D 2160.6*	Porto Covo.	37° 51.0′ N 8° 47.4′ W	**Fl.R.** period 4s fl. 1s, ec. 3s	105 **32**	5	White post, red bands.	
3592 *D 2161*	Portinho do Canal Range, front.	37° 44.1′ N 8° 48.0′ W	**Fl.R.** period 3s fl. 1s, ec. 2s	16 **5**	6	White post, red bands.	
3596 *D 2161.1*	-Rear, 58 meters 074°48′ from front.	37° 44.2′ N 8° 47.9′ W	**Fl.R.** period 3s fl. 1s, ec. 2s	20 **6**	6	White post, red bands.	
3600 *D 2162*	Milfontes, Rio Mira, mouth.	37° 43.1′ N 8° 47.4′ W	**Fl.W.** period 3s fl. 1s, ec. 2s	75 **23**	10	Security booth, lantern; 16.	
3604 *D 2164*	**Cabo Sardao.**	37° 35.9′ N 8° 49.0′ 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 tower, red cupola, white building; 56.	Reserve light range 22M.

(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	**Fl.G.** period 3s fl. 1s, ec. 2s	131 **40**	7	White post, red bands; 26.	
3612 *D 2165.1*	-Rear, about 157 meters 082°24′ front.	37° 33.0´ N 8° 47.3´ W	**Oc.G.** period 3s lt. 2s, ec. 1s	174 **53**	7	White post, red bands; 46.	
3616 *D 2168*	**Cabo De Sao Vicente.**	37° 01.4´ N 8° 59.8´ W	**Fl.W.** period 5s fl. 0.1s, ec. 4.9s	282 **86**	**32**	White tower, red cupola, white building; 92.	Aeromarine light. **Horn:** Mo(I) 2 bl. ev. 30s (bl. 5s, si. 5s, bl. 5s, si. 15s).
3620 *D 2170*	Ponta de Sagres.	36° 59.7´ N 8° 56.9´ W	**Iso.R.** period 2s	174 **53**	11	Tower, red cupola, dwelling; 42.	
3622 *D 2171*	Baleeira, on mole.	37° 00.7´ N 8° 55.5´ W	**Fl.W.R.** period 4s fl. 1s, ec. 3s	43 **13**	W. 14 R. 11	White post, red bands; 20.	R. 355°-254°, W.-355°.
3623 *D 2172.3*	Posto.	37° 04.3´ N 8° 46.5´ W	**L.Fl.W.** period 5s fl. 2s, ec. 3s	52 **16**	11	Red lantern.	
	BAIA DE LAGOS:						
3624 *D 2174*	**-Ponte da Piedade.**	37° 04.8´ N 8° 40.2´ W	**Fl.W.** period 7s fl. 1.5s, ec. 5.5s	184 **56**	**20**	Yellow tower, red cupola, yellow building; 16.	
3628 *D 2175*	-Lagos, W. mole, head.	37° 05.8´ N 8° 39.9´ W	**Fl.(2)R.** period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s		6	White tower, red bands.	
3632 *D 2176*	--E. mole, head.	37° 05.8´ N 8° 39.9´ W	**Fl.(2)G.** period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s		7	White tower, green bands.	
	RIBEIRA DE ARADE (PORTIMAO):						
3644 *D 2178*	**-Ponta do Altar,** entrance, E. side.	37° 06.3´ N 8° 31.2´ W	**L.Fl.W.** period 5s fl. 2s, ec. 3s	105 **32**	**16**	White tower, red cupola, building; 33.	
3648 *D 2179*	-W. mole, extremity.	37° 06.5´ N 8° 31.8´ W	**Fl.R.** period 5s fl. 1s, ec. 4s	33 **10**	7	White column, red bands; 23.	
3652 *D 2179.2*	-E. mole, extremity.	37° 06.5´ N 8° 31.6´ W	**Fl.G.** period 5s fl. 1s, ec. 4s	33 **10**	7	White column, 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° 05.2´ N 8° 26.5´ W	**Fl.(2)W.** period 14s fl. 0.2s, ec. 3.3s fl. 0.2s, ec. 10.3s	190 **58**	**29**	White tower, red cupola, white 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	Lantern.	
3692 *D 2196*	Albufeira, near Ponta da Baleeira.	37° 04.8´ N 8° 15.7´ W	**Oc.W.** period 6s lt. 4s, ec. 2s	102 **31**	11	White column, red bands.	
3700 *D 2197*	Olhos de Agua.	37° 05.3´ N 8° 11.3´ W	**L.Fl.W.** period 5s fl. 2s, ec. 3s	98 **30**	7	White column, red 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; 20.	
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	White tower, green bands; 23.	
3716 *D 2197.2*	**Vilamoura.**	37° 04.5′ N 8° 07.4′ W	**Fl.W.** period 5s fl. 0.2s, ec. 4.8s	59 **18**	**19**	Orange tower, lantern; 52.	
3724 *D 2206*	**Cabo de Santa Maria.**	36° 58.4′ N 7° 51.9′ 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	154 **47**	**25**	White tower, red cupola, white building; 151.	Reserve light range 20M. In line 099° with 3752. In line 020°54′ with 3736. 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 tower, red bands; 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 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	White column, red bands.	In line 020°54′ with 3724.
	-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**	7	White column, red bands, structure; 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 column, 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	Post, green lantern.	
3752 *D 2212*	-Mar Santo.	36° 58.4′ N 7° 52.0′ W	**Oc.R.** period 5s lt. 4s, ec. 1s	33 **10**	5	White column, red bands.	In line 099° with 3724.
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	Post; 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	Post; 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	Post; 20.	
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° 03.2′ N 7° 43.5′ W	**Fl.W.** period 8s fl. 1s, ec. 7s	23 **7**	7	White column, red bands; 20.	

(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. 0.3s, ec. 2.2s	26 **8**	6	White tower, red 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	White tower, green 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	33 **10**	4	White metal tower, red bands, lantern; 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° 25.0′ W	**Fl.W.** period 6.5s fl. 0.2s, ec. 6.3s	157 **48**	**26**	White tower, black bands, red cupola, white building; 151.	Reserve light range 20M.
			SPAIN-SOUTHWEST COAST				
	RIO GUADIANA:						
3820 *D 2305*	-Baluarte.	37° 12.8′ N 7° 24.6′ W	**Fl.(2)G.** period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	10 **3**	1	Green column; 13.	
3828 *D 2312*	**-Rompido de Cartaya.**	37° 13.1′ 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**	White cylindrical tower, red bands; 95.	
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, "X" 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° 08.1′ N 6° 49.6′ 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 masonry octagonal tower, white house; 82.	Reserve light range 10M. F.R. lights on 3 radio masts 4.8M ESE. **AIS** (MMSI No 992242121).
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				
3845.1 *D 2328.1*	-S. Pier, S. end.	37° 08.9´ N 6° 52.5´ W	**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	30 **9**	3	Green post; 10.	
3845.12 *D 2328.15*	--Middle.	37° 09.0´ N 6° 52.6´ W	**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		3	Green post.	
3845.13 *D 2328.18*	--N. end.	37° 09.1´ N 6° 52.9´ W	**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		3	Green post.	
3846 *D 2328.2*	-Capesa, SW.	37° 09.6´ N 6° 53.9´ W	**Fl.(2)G.** period 6s	16 **5**	3	Green post; 7.	
3846.1 *D 2328.3*	--NW.	37° 09.6´ N 6° 53.8´ W	**Fl.(2)G.** period 6s	16 **5**	3	Green post; 7.	Synchronized with 3846.
3846.5 *D 2328.7*	-Pantalan Foret SA.	37° 10.4´ N 6° 55.0´ W	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	39 **12**	3	Green post; 20.	Synchronized with 3846.51.
3846.51 *D 2328.75*	--N. corner.	37° 10.4´ N 6° 55.0´ W	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	20 **6**	6	Metal post; 20.	Synchronized with 3846.5.
3849 *D 2330*	-Muelle Juan Gonzalo, S. end.	37° 10.8´ N 6° 55.5´ 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	10 **3**	3	Green post, 10.	
3850 *D 2332.1*	-Muelle de Saltes.	37° 11.6´ N 6° 56.5´ W	**Fl.R.** period 5s fl. 0.5s, ec. 4.5s	23 **7**	3	Red cylindrical post; 16.	
3851 *D 2335.2*	-Real Club Nautico, head.	37° 12.9´ N 6° 57.0´ W	**Q.(4)G.** period 23s	10 **3**	3	Green post; 7.	
3851.5 *D 2335.3*	-Pantalan UERT S.A., S. end.	37° 13.1´ N 6° 57.1´ W	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	36 **11**	3	Green post; 20.	
3851.6 *D 2335.35*	--N. end.	37° 13.2´ N 6° 57.2´ W	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	36 **11**	3	Green post; 20.	Synchronized with 3851.5.
3852.1 *D 2335.38*	-Pantalan Fertiberia, S. dolphin.	37° 13.4´ N 6° 57.3´ W	**Fl.(2)G.** period 5s		3		Synchronized with 3852.11.
3852.11 *D 2335.39*	--N. dolphin.	37° 13.5´ N 6° 57.3´ W	**Fl.(2)G.** period 5s		3		Synchronized with 3852.1.
3852.5 *D 2335.42*	-Pantalan Fosforico, S. end.	37° 13.7´ N 6° 57.4´ W	**Fl.(3)G.** period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	26 **8**	3	Green post; 10.	
3852.6 *D 2335.4*	--N. end.	37° 13.8´ N 6° 57.4´ W	**Fl.(3)G.** period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	26 **8**	3	Green post; 10.	Synchronized with 3852.5.
3853 *D 2338.5*	-Muelle de Rio Tinto, end.	37° 14.9´ N 6° 57.5´ W	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	39 **12**	3	Green post; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SPAIN-SOUTHWEST COAST				
3854 *D 2341*	-Muelle de Levante.	37° 15.3´ N 6° 57.6´ W	**Fl.(3)G.** period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	33 **10**	3	Green post; 16.	
3861 *D 2321*	-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 cylindrical tower, red bands; 89.	R. 100°-125°, obsc.-165°, W.-100°.
	-RACON		**K(– • –)** period 72s		12		(3 cm).
3862 *D 2315*	-Punta Umbria, breakwater, head.	37° 09.8´ N 6° 56.9´ W	**V.Q.(6)+L.Fl.W.** period 10s	33 **10**	5	S. CARDINAL YB, tower, topmark; 13.	
3862.5 *D 2315.75*	--Canal.	37° 11.4´ N 6° 57.9´ W	**Fl.(2+1)R.**		3	Red and green post.	
3863 *D 2345*	**-La Higuera.**	37° 00.5´ N 6° 34.2´ 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 tower, red band; 79.	
	RIO GUADALQUIVIR (SANLUCAR DE BARRAMEDA):						
3864 *D 2348.5*	-New Canal Range, front.	36° 47.8´ N 6° 20.2´ W	**Q.W.**	95 **29**	10	Yellow metal tower; 72.	
3868 *D 2348.51*	--Rear, 108 meters 069° from front.	36° 48.1´ N 6° 19.6´ W	**Iso.W.** period 4s	203 **62**	10	Yellow metal tower; 98.	Daytime range 4M.
3872 *D 2349*	-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**	3	Green column, red band; 6.	
3876 *D 2349.1*	--Breakwater 3, N. head.	36° 48.3´ N 6° 20.3´ W	**Fl.G.** period 5s fl. 0.5s, ec. 4.5s	23 **7**	3	Green post; 7.	
	Lights in Rio Guadalquivir not in List of Lights.						
3877 *D 2346*	-Bonanza.	36° 48.2´ N 6° 20.2´ W	**Iso.W.** period 4s	75 **23**	7	Red brick tower, white dome; 65.	Visible 144°-148°.
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 & 10cm).
3880 *D 2351*	**-Chipiona.**	36° 44.3´ N 6° 26.5´ W	**Fl.W.** period 10s fl. 0.3s, ec. 9.7s	226 **69**	**25**	Cylindrical stone tower; 197.	**AIS** (MMSI No 992242122).
3882 *D 2350.4*	-Bajo Salmedina.	36° 44.4´ N 6° 28.4´ W	**Q.(9)W.** period 15s	30 **9**	5	W. CARDINAL YBY, round tower, topmark.	
3884 *D 2352*	--Breakwater, head.	36° 45.0´ N 6° 25.7´ W	**Fl.(2)G.** period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	20 **6**	5	Green cylindrical tower; 16.	Fl.(3)G. 9s 4m 1M and Fl.(4)R. 11s 4m 3M lights mark entrance to marina. Obscured 039°-075°.
	ROTA:						
3900 *D 2355*	**-Rota** AVIATION LIGHT.	36° 38.1´ N 6° 20.8´ W	**Al.Fl.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.
3908 *D 2355.2*	-Rota Faro.	36° 37.0´ N 6° 21.4´ W	**Oc.W.** period 4s	112 **34**	13	White cylindrical tower, red band; 92.	**AIS** (MMSI No 992242144). **DGPS Station** 1.3 miles WNW.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
	SPAIN-SOUTHWEST COAST						
	-Rota Fishing Harbor:						
3912 *D 2355.4*	--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**	5	Red mast, red hut; 10.	
3914 *D 2355.5*	---Contradique.	36° 36.9′ N 6° 21.1′ W	**Q.(6)G.** period 12s		3	Green post.	
	-Naval Base:						
3920 *D 2359*	--Entrance Range, front.	36° 37.5′ N 6° 19.7′ W	**Q.W.**	49 **15**	9	Metal framework tower, red and white daymarks bases together; 30.	Visible 335°30′-355°30′.
3924 *D 2359.1*	---Rear, about 285 meters 345°30′ from front.	36° 37.7′ N 6° 19.8′ W	**Oc.W.** period 3s	89 **27**	11	Metal framework tower, red and white circular daymark; 50.	Visible 335°30′-355°30′.
3928 *D 2357*	--SW. breakwater.	36° 36.6′ N 6° 19.6′ W	**Oc.(2)R.** period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	56 **17**	4	Metal framework column; 13.	
3932 *D 2358*	--SE. breakwater.	36° 36.8′ N 6° 19.4′ 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 framework column; 13.	
	CADIZ:						
3940 *D 2362*	**-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 cylindrical tower; 121.	Obscured over harbor by buildings. Unintensified 085°-121°.
3950 *D 2380*	-Range, front.	36° 33.0′ N 6° 15.0′ W	**Q.G.**	33 **10**	7	White and red beacon, concrete post; 20.	
3950.1 *D 2380.1*	--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 beacon, red square daymark, white bands, concrete post; 52.	
3958 *D 2367.2*	-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	Green post suspended from semicircular structure.	
3960 *D 2367*	-Basin Malecon de San Felipe, head.	36° 32.6′ N 6° 16.8′ W	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	36 **11**	5	Green tower; 13.	
3968 *D 2368*	--Malecon de Levante, head.	36° 32.4′ N 6° 16.6′ W	**Fl.R.** period 2s fl. 0.3s, ec. 1.7s	39 **12**	5	Red tower; 16.	
3969 *D 2367.5*	-Nueve Terminal de Contenedores.	36° 32.4′ N 6° 16.4′ W	**Q.G.**		5	Green post; 33.	
3970 *D 2367.7*	-- S. Corner.	36° 32.1′ N 6° 16.2′ W	**Fl.G.** period 4s fl. 0.3s, ec. 3.7s		5	Green and white column; 10.	
	-Malecon de San Felipe:						
3977 *D 2371.3*	--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 *D 2373*	--Muelle Ciudad.	36° 32.0′ N 6° 17.4′ W	**Oc.W.** period 5s lt. 3s, ec. 2s	92 **28**	3	Metal post, red triangular daymark point up; 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 Marques de Comillas, NW. corner.	36° 32.2′ N 6° 16.9′ W	**Fl.(2+1)R.** period 10s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 0.5s fl. 1.5s, ec. 6.5s	20 **6**	3	Red tower, green strip; 13.	
3984.1 *D 2373.7*	---NE corner.	36° 32.1′ N 6° 16.8′ W	**Q.(4)G.** period 12s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 8.5s		3	Green beacon.	
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 structure.	
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*	-Muelle de La Cabezuela.	36° 31.7′ N 6° 15.5′ W	**Fl.R.** period 2.5s fl. 0.5s, ec. 2s	29 **9**	3	Red truncated 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 fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s			ISOLATED DANGER BRB, beacon, topmark.	
4008 *D 2376*	-Base de Puntales, outer mole, head.	36° 30.5′ N 6° 15.6′ 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	23 **7**	3	Green post; 10.	
	-Zona Franca:						
4012 *D 2377*	--Entrance Range, front.	36° 30.1′ N 6° 15.8′ W	**Iso.W.** period 2s	39 **12**	3	Metal post, black diamond daymark; 30.	Visible 180°-240°.
4016 *D 2377.1*	---Rear, 80 meters 210°30′ from front.	36° 30.1′ N 6° 15.8′ W	**Oc.W.** period 4s lt. 3s, ec. 1s	49 **15**	3	Metal post, black diamond daymark; 39.	Visible 180°-240°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SPAIN-SOUTHWEST COAST				
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.	
4032 *D 2381*	-La Clica, 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.	
4036 *D 2381.2*	--Inner berth.	36° 29.9′ N 6° 11.3′ W	**Q.(4)G.** period 10s		2	White tower, green top; 10.	
4037 *D 2382*	-Puerto Deportivo Sherry, S. breakwater, head.	36° 34.6′ N 6° 15.3′ W	**Oc.R.** period 4s lt. 3s, ec. 1s		5	White truncated conical tower.	
4038 *D 2382.3*	--N. entrance.	36° 34.7′ N 6° 15.2′ W	**Oc.G.** period 5s lt. 3.8s, ec. 1.2s		3	Green tower.	Q.G. and Q.R. lights mark interior entrance.
4041 *D 2385.7*	-El Puerto de Santa Maria.	36° 35.6′ N 6° 13.5′ W	**Dir.W.R.G.** period 6s fl. 1.5s, ec. 4.5s	46 **14**	5	Cylindrical metal tower.	Fl.G. 038.7°-039.6°, Fl.W.-040.4°, Fl.R.-041.5°.
4048 *D 2383*	--Escollera de Levante, E. head.	36° 34.7′ N 6° 14.4′ 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 *D 2385.2*	--W. head.	36° 34.3′ N 6° 15.0′ W	**Fl.R.** period 5s fl. 0.5s, ec. 4.5s	36 **11**	3	Red tower; 13.	
4050 *D 2383.4*	--E. breakwater.	36° 34.5′ N 6° 14.4′ W	**Q.(9)W.** period 15s		3	W. CARDINAL YBY, tower, topmark; 13.	
4056 *D 2385.6*	--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 *D 2388*	-Castillo de Sancti Petri, Islet, N. head.	36° 22.8′ N 6° 13.2′ W	**Fl.W.** period 3s fl. 0.7s, ec. 2.3s	66 **20**	9	Tower.	
	-Punta de las Piedras:						
4064 *D 2398*	--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	Metal framework tower; 33.	
4068 *D 2398.1*	---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	Metal framework tower; 33.	
4072 *D 2404*	--Batteria 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	Metal framework tower; 20.	
4076 *D 2404.1*	---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	Metal framework tower; 33.	
4077 *D 2405*	**Cabo Roche.**	36° 17.7′ N 6° 08.4′ 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**	Four-sided tower; 66.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SPAIN-SOUTHWEST COAST				
4078 *D 2405.4*	Conil, breakwater, head.	36° 17.6´ N 6° 08.1´ W	**Fl.(2)R.** period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6s	36 **11**	5	Red cylindrical post; 20.	
4080 *D 2406*	**Cabo Trafalgar,** AVIATION LIGHT.	36° 11.0´ 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 tower, dwelling; 112.	
4084 *D 2408*	Barbate, about 1.3 km. NW. of mouth of Barbate Rio.	36° 11.2´ N 5° 55.4´ 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 cylindrical 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 truncated conical tower; 7.	
			STRAIT OF GIBRALTAR-NORTH SIDE				
4110 *D 2411.5*	Punta de Gracia.	36° 05.4´ N 5° 48.6´ W	**Oc.(2)W.** period 5s lt. 0.5s, ec. 1s lt. 0.5s, ec. 3s	246 **75**	13	Cylindrical stone tower; 66.	**AIS** (MMSI No 992242146).
4112 *D 2412*	Punta Paloma.	36° 03.9´ N 5° 43.2´ W	**Oc.W.R.** period 5s lt. 4s, ec. 1s	148 **45**	W. 10 R. 7	White four-sided tower; 16.	W. 010°-340°, R.-010°.
4116 *D 2414*	**Tarifa.**	36° 00.1´ N 5° 36.6´ W	**Fl.(3)W.R.** period 10s fl. 0.4s, ec. 1.8s fl. 0.4s, ec. 1.8s fl. 0.4s, ec. 5.2s	134 **41**	W. **26** R. **18**	White cylindrical tower; 108.	W. 113°-089°, R.-113°. **AIS** (MMSI No 992242147). **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	Red four-sided tower, red square daymark; 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	Red square daymark; 13.	
4124 *D 2416*	-E. mole, head.	36° 00.4´ N 5° 36.2´ W	**Fl.G.** period 5s fl. 0.5s, ec. 4.5s	36 **11**	5	STARBOARD (A) G, tower, topmark; 16.	Visible 249°-045°.
4128 *D 2420*	**Punta Carnero.**	36° 04.6´ N 5° 25.6´ 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	Cylindrical masonry tower, white building; 62.	R. 325°-018°, W.-325°. **AIS** (MMSI No 992242148).
	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	STARBOARD (A) G, structure, topmark; 3.	**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				
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 cylindrical tower; 20.	**Radar reflector.**
4138 *D 2424.94*	- - -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	PORT (A) R, tower, topmark; 20.	Visible 003°-203°.
4138.5 *D 2425.2*	-Pantalon VOPAK.	36° 08.3´ N 5° 25.5´ W	**Fl.Y.** period 5s fl. 0.3s, ec. 4.7s	16 **5**	3	SPECIAL Y, post, "X" topmark; 10.	
4139 *D 2424.8*	-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 cylindrical column; 10.	Visible 014°-000°.
4139.5 *D 2424.9*	- -S. head.	36° 07.0´ N 5° 25.0´ W	**Oc.G.** period 6s lt. 5s, ec. 1s	36 **11**	5	Green cylindrical column; 10.	Visible 180°-169°.
4140 *D 2424.7*	-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 cylindrical column; 10.	Visible 094°-349°.
4140.5 *D 2423.5*	- -S. head.	36° 07.2´ N 5° 25.3´ W	**Oc.R.** period 6s lt. 5s, ec. 1s	20 **6**	3	Red cylindrical column; 10.	Visible 194°-090°.
4142 *D 2425.3*	-Naval mole, N. head.	36° 08.9´ N 5° 26.1´ W	**Oc.G.** period 5s lt. 4s, ec. 1s	26 **8**	3	Green cylindrical tower; 16.	
4143 *D 2425.4*	- -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	STARBOARD (A) G, column, topmark; 7.	
4145 *D 2425.66*	-Darsena Pesquera.	36° 08.3´ 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	STARBOARD (A) G, column, topmark; 7.	
4147 *D 2425.72*	-Muelle de la Galera, pier No 2.	36° 07.9´ N 5° 26.2´ W	**Fl.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	SPECIAL Y, column, "X" topmark; 7.	
4149 *D 2425.7*	-Muelle de la Galerilla, pier No 1.	36° 07.9´ 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	SPECIAL Y, column, "X" topmark; 7.	
4151 *D 2425.74*	- -Pier No 3.	36° 08.0´ N 5° 26.2´ W	**Fl.Y.** period 5s fl. 0.5s, ec. 4.5s	16 **5**	1	SPECIAL Y, column, &"X" topmark; 7.	
4154 *D 2425.35*	-Bridge.	36° 08.9´ N 5° 26.5´ W	**Iso.W.** period 4s		1	White round panel, red bands.	
4166 *D 2430*	-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	Truncated pyramidal tower; 10.	
4166.5 *D 2430.013*	- -Range, common front.	36° 10.6´ N 5° 25.3´ W	**Q.R.**		3	Red column; white stripe; 20.	
4166.51 *D 2430.01*	- - -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.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			STRAIT OF GIBRALTAR-NORTH SIDE				
4166.52 *D 2430.015*	---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.
4167 *D 2430.2*	--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 *D 2431*	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 cylindrical tower; 16.	
4167.3 *D 2431.2*	-E. corner.	36° 10.5´ N 5° 25.0´ W	**V.Q.(6)+L.Fl.W.** period 10s	30 **9**	1	S. CARDINAL YB, tower, "X" topmark; 16.	
4168 *D 2432*	-Oil pipeline directional indicator.	36° 10.9´ N 5° 24.5´ W	**Fl.(4)Y.** period 15s	49 **15**	3	SPECIAL Y, post, "X" topmark; 36.	
4172 *D 2431.6*	*-CEPSA TERMINAL LANBY.*	36° 09.9´ N 5° 24.9´ W	**Fl.(4)Y.** period 15s		5	SPECIAL Y, superbuoy, "X" topmark; 20.	Marks end of underwater pipeline. Floating hose extends to a radius of 70m. **Radar reflector.**
4180 *D 2434.4*	--Extremity of W. arm.	36° 10.6´ N 5° 24.2´ W	**Fl.(3)G.** period 10s	39 **12**	5	Green cylindrical tower; 30.	
4184 *D 2434.2*	--Extremity of E. arm.	36° 10.7´ N 5° 23.6´ W	**Fl.(2)R.** period 10s	39 **12**	5	Red column; 30.	
4204 *D 2436.6*	-Atragues de Aljibes, W. dolphin.	36° 10.7´ N 5° 23.4´ W	**Fl.G.** period 5s fl. 0.4s, ec. 4.6s	19 **6**	3	Green Post; 3.	
4208 *D 2436.7*	--E. dolphin.	36° 10.6´ N 5° 23.1´ W	**Q.(2)R.** period 8s	19 **6**	3	Metal post; 3.	
	GIBRALTAR (U.K.):						
4214 *D 2436.81*	-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	PORT (A) R, column, topmark; 10.	Synchronized with 4216.
4214.5 *D 2436.75*	-Muelle de Crinavis.	36° 10.2´ N 5° 22.9´ W	**Q.(3)G.** period 9s	20 **6**	3	STARBOARD (A) G, post, topmark; 10.	
4214.6 *D 2436.74*	--N.	36° 10.2´ N 5° 22.9´ W	**Q.G.**	13 **4**	3	Green post, green triangular topmark; 7.	
4214.7 *D 2436.78*	--New esplanade, elbow.	36° 09.8´ N 5° 22.5´ W	**Q.G.**	20 **6**	3	Green post; 10.	
4215 *D 2437.05*	-Puerto Deportivo de la Alcaidesa, N. corner.	36° 09.6´ N 5° 21.5´ W	**Fl.(2+1)R.** period 14.5s	16 **5**	1	Red round column, green band; 10.	
4215.1 *D 2437.055*	--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 *D 2437.075*	-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 *D 2437.08*	-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 *D 2436.8*	-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	STARBOARD (A) G, post, 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 *D 2438*	**-Europa Point.**	36° 06.6´ N 5° 20.7´ W	**Iso.W.** period 10s	161 **49**	**19**	White round tower, red band; 62.	Visible 197°-042°, 067°-125°.
			Oc.R. period 10s				Visible 042°-067°.
			F.R.	144 **44**	**15**		Visible 042°-067°.
4224 *D 2442*	-S. Mole, A head.	36° 08.0´ N 5° 21.9´ W	**Fl.W.** period 2s fl. 0.1s, ec. 1.9s	33 **10**	5	White column; 23.	**Horn:** 1 bl. ev. 10s (bl. 2s, si. 8s).
4228 *D 2445*	-Detached mole, B head.	36° 08.1´ N 5° 21.8´ W	**Q.R.**	29 **9**	5	Metal structure, concrete building; 36.	
4232 *D 2446*	- -C head.	36° 08.5´ N 5° 22.0´ W	**Q.G.**	33 **10**	5	Metal structure, concrete building; 36.	
4236 *D 2448*	-N. mole, D head.	36° 08.6´ N 5° 21.9´ W	**Q.R.**	60 **18**	5	Black octagonal framework tower; 56.	
4238 *D 2448.5*	- -E Head.	36° 09.0´ N 5° 22.0´ W	**Q.G.**	20 **6**	5		
4241.4 *D 2449.3*	-Airport runway, NW corner.	36° 09.1´ N 5° 21.6´ W	**V.Q.W.**		9		Daytime range 1M.
4241.5 *D 2449.4*	- -SW corner.	36° 09.0´ N 5° 21.6´ W	**V.Q.W.**		9		Daytime range 1M.
4241.6 *D 2449.5*	- -N. jetty.	36° 09.1´ N 5° 21.4´ W	**F.G.**				Private light.
4241.7 *D 2449.6*	- -S. jetty.	36° 09.0´ N 5° 21.4´ W	**F.R.**				Private light.
4242 *D 2451.5*	-New camp jetty.	36° 08.4´ N 5° 21.5´ W	**2 F.G.** (vert.)			Mast.	
4244 *D 2450.7*	-Coaling Island.	36° 08.2´ N 5° 21.4´ W	**2 F.R.** (vert.)	16 **5**			1 meter apart.
4256 *D 2456*	-AVIATION LIGHT.	36° 08.6´ N 5° 20.6´ W	**Mo.(GB)R.** period 10s	1329 **405**	**30**		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SPAIN-MEDITERRANEAN SEA				
4264 *E 0008*	Dique de Abrigo, entrance.	36° 10.7´ N 5° 19.9´ W	**Fl.(3)G.** period 9s fl. 0.3s, ec. 1.7s fl. 0.3s, ec. 1.7s fl. 0.3s, ec. 4.7s	36 **11**	5	Green post; 16.	
4264.1 *E 0008.2*	--Elbow.	36° 10.8´ N 5° 19.9´ W	**Q.(3)W.** period 10s	30 **9**	3	E. CARDINAL BYB, post, topmark; 10.	
4264.2 *E 0008.57*	--Extremity.	36° 10.8´ N 5° 20.0´ W	**Fl.(3)R.** period 9s fl. 0.3s, ec. 1.7s fl. 0.3s, ec. 1.7s fl. 0.3s, ec. 4.7s	13 **4**	3	Red post, red square topmark; 10.	
4266 *E 0012*	Punta Carbonera.	36° 14.7´ N 5° 18.1´ W	**Oc.W.** period 4s lt. 3s, ec. 1s	128 **39**	14	White cylindrical tower; 46.	
4268 *E 0018*	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 *E 0018.3*	-Dike, N. point.	36° 21.4´ N 5° 13.6´ W	**Q.(3)W.** period 10s	22 **7**	5	E. CARDINAL BYB, post, topmark; 20.	
4276 *E 0018.41*	-Breakwater, head.	36° 21.3´ N 5° 13.8´ W	**Fl.R.** period 5s	23 **7**	3	Cylindrical post; 16.	
4280 *E 0020*	**Punta de la Doncella.**	36° 25.0´ N 5° 09.3´ 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 masonry tower, white dwelling; 82.	
4282 *E 0022*	Estepona, Dique de Abrigo, extension, head.	36° 24.7´ N 5° 09.4´ W	**Q.(6)+L.Fl.W.** period 15s	26 **8**	5	S. CARDINAL YB, tower, topmark; 20.	
4284 *E 0022.2*	Estepona, Dique de Levante, 140 meters from head.	36° 24.7´ N 5° 09.5´ W	**Fl.G.** period 5s	30 **9**	5	Green mast; 23.	
4288 *E 0024*	-Dique de Poniente.	36° 24.8´ N 5° 09.5´ W	**Fl.(2)R.** period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	30 **9**	3	White truncated conical tower, red band; 20.	
4292 *E 0031*	-Dique de Benabola, elbow.	36° 29.1´ N 4° 57.2´ W	**Fl.(3)R.** period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	23 **7**	3	Truncated conical masonry tower, red lantern; 13.	
4296 *E 0032*	-Dique de Levante, S. head.	36° 29.0´ N 4° 57.3´ W	**Fl.(3)G.** period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	42 **13**	5	Truncated conical masonry tower, green lantern; 30.	**Siren:** 1 bl. ev. 60s (bl. 5s, si. 55s).
4300 *E 0032.2*	--N. head.	36° 29.4´ N 4° 56.9´ W	**Q.(6)+L.Fl.W.** period 15s	33 **10**	4	S. CARDINAL YB, post, topmark; 20.	
4304 *E 0056*	**Marbella.**	36° 30.5´ N 4° 53.4´ W	**Fl.(2)W.** period 14.5s fl. 0.4s, ec. 3.2s fl. 0.4s, ec. 10.5s	115 **35**	**22**	White cylindrical tower; 95.	
4312 *E 0057.6*	Cabo Pino, marina.	36° 29.0´ N 4° 44.4´ W	**3.F.R.(vert)** period 10s	23 **7**	4	White cylindrical tower; 13.	
4320 *E 0058*	**Punta Calaburras** AVIATION LIGHT.	36° 30.4´ N 4° 38.4´ W	**Fl.W.** period 5s fl. 0.2s, ec. 4.8s	151 **46**	**18**	Truncated conical masonry tower; 83.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
	SPAIN-MEDITERRANEAN SEA						
	PUERTO DE BENALMADENA:						
4324 *E 0060.5*	-S. breakwater, NE. head.	36° 35.9´ N 4° 30.5´ W	**Q.(3)W.** period 10s	30 **9**	4	E. CARDINAL BYB, tower, topmark; 16.	
4328 *E 0060.4*	- -SW. head.	36° 35.6´ N 4° 30.8´ W	**Fl.(2)G.** period 5s fl. 0.5s, ec. 0.7s fl. 0.5s, ec. 3.3s	30 **9**	5	Conical masonry tower, green band; 16.	
4332 *E 0060.6*	-Inner harbor, end.	36° 35.6´ N 4° 30.7´ W	**Fl.(2)R.** period 5s fl. 0.5s, ec. 0.7s fl. 0.5s, ec. 3.3s	13 **4**	3	White conical masonry tower, red band; 7.	
4334 *E 0060.3*	-Laja Bermeja.	36° 35.4´ N 4° 30.9´ W	**Q.(3)W.** period 10s	23 **7**	5	E. CARDINAL BYB, post, topmark; 23.	
4336 *E 0060.7*	-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 masonry tower, green band; 7.	
	FUENGIROLA:						
4339 *E 0058.5*	-Pier, head.	36° 32.7´ N 4° 36.8´ W	**Fl.(3)G.**	16 **5**	3	Green post; 13.	
4340 *E 0059*	-Breakwater, head.	36° 32.6´ N 4° 36.8´ W	**Fl.(3)R.**	33 **10**	5	Red truncated pyramidal tower; 13.	
4341 *E 0059.4*	-End.	36° 32.5´ N 4° 36.9´ W	**Fl.G.**	20 **6**	3	Green truncated pyramidal tower; 13.	
4346 *E 0060.8*	Offshore terminal.	36° 39.5´ N 4° 26.6´ W	**V.Q.(3)W.** period 5s	62 **19**	3	E. CARDINAL BYB, tower, topmark; 39.	
	MALAGA:						
4348 *E 0061*	-Power station wharf.	36° 40.9´ N 4° 26.5´ W	**Q.(3)W.** period 10s	36 **11**	3	E. CARDINAL BYB, post, topmark; 26.	
4360 *E 0062*	**-Malaga.**	36° 42.8´ 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 cylindrical tower, white dwelling; 120.	Visible 243°-047°.
4364 *E 0064*	- -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	Truncated conical tower; 13.	Visible 000°-200°.
4366 *E 0064.5*	-NE. Marina.	36° 42.5´ N 4° 24.7´ W	**Q.R.**	39 **12**	3	Red cylindrical tower; 7.	Q.R. & Q.G. mark entrance.
4366.5 *E 0065*	-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 post; 13.	
4367 *E 0065.3*	-Rio Guadalmedina.	36° 42.1´ N 4° 25.6´ W	**Q.(6)+L.Fl.W.** period 15s		3	Truncated conical masonry tower.	
4367.2 *E 0065.7*	- -E. end.	36° 42.1´ N 4° 25.1´ W	**Fl.R.** period 5s fl. 0.5s, ec. 4.5s		5	Red truncated pyramidal tower; 16.	
4368 *E 0066*	-W. breakwater, head.	36° 42.5´ N 4° 25.2´ 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.	
4370 *E 0069*	-Small craft harbor, N. dike, head.	36° 42.9´ N 4° 25.0´ W	**Fl.(3)R.** period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	19 **6**	2	Red post; 13.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SPAIN-MEDITERRANEAN SEA				
4371 *E 0069.2*	--S. dike, head.	36° 42.8´ N 4° 25.0´ 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 post; 13.	
4371.5 *E 0069.4*	-Muelle Canovas del Castillo.	36° 42.9´ N 4° 25.1´ 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	Truncated conical masonry tower, green top; 13.	
4372 *E 0067.5*	-Fishing Basin in outer habor, N. spur mole, head.	36° 42.6´ N 4° 25.2´ W	**Q.G.**	16 **5**	2	Truncated conical masonry tower; 13.	
4376 *E 0067*	--S. spur mole, head.	36° 42.6´ N 4° 25.2´ W	**Q.R.**	13 **4**	2	Truncated conical masonry tower; 10.	
4380 *E 0068*	-E. inner mole, head.	36° 42.7´ N 4° 25.0´ W	**Fl.(2)G.** period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	20 **6**	2	Truncated conical masonry tower; 16.	
4384 *E 0070*	-W. transversal mole, SE. corner.	36° 42.7´ 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	Truncated conical masonry tower, red top; 16.	
4384.5 *E 0070.2*	-Romero Robledo, mole, NE. corner.	36° 42.7´ 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	Truncated conical masonry tower, 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 cylindrical tower; 92.	Storm signals.
4396 *E 0073.2*	-Outer breakwater, head.	36° 44.8´ N 4° 04.3´ W	**Fl.G.** period 5s	29 **9**	5	White and green truncated conical tower; 13.	
4402 *E 0073.7*	-Silt retention dike, head.	36° 44.9´ N 4° 04.4´ W	**Fl.R.** period 4s	26 **8**	3	Red truncated pyramidal 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 and red cylindrical round tower; 7.	
4408 *E 0074*	**Punta de Torrox.**	36° 43.6´ 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 cylindrical tower, white building; 75.	
4409 *E 0075*	Puerto de la Mona.	36° 43.7´ 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	Red truncated conical tower, red diamond daymark; 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	STARBOARD (A) G, tower, topmark; 10.	
4411 *E 0074.8*	**Punta de la Mona.**	36° 43.4´ N 3° 43.9´ W	**Fl.W.** period 5s fl. 1s, ec. 4s	459 **140**	**15**	Truncated conical masonry tower; 46.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SPAIN-MEDITERRANEAN SEA				
4411.5 *E 0077*	Motril, Dique de Poniente, head.	36° 42.8´ N 3° 31.0´ W	**Fl.(2)R.** period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	36 **11**	10	Red truncated conical tower; 16.	
4420 *E 0080*	**Cabo Sacratif.**	36° 41.7´ N 3° 28.2´ W	**Fl.(2)W.** period 10s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 7.3s	320 **98**	**25**	White truncated conical tower, white dwelling; 56.	
4422 *E 0082*	Punta del Melonar.	36° 43.1´ N 3° 22.1´ W	**Fl.(3)W.** period 13s	778 **237**	14	Truncated conical masonry tower; 39.	
4424 *E 0088*	**Adra.**	36° 44.9´ N 3° 01.9´ 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 cylindrical tower, red bands; 85.	
4428 *E 0088.4*	-On W. mole, head.	36° 44.5´ N 3° 01.2´ W	**Fl.(2)R.** period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	27 **8**	4	Red truncated conical tower.	Fl.G. 5s shown on head of E. mole.
4430 *E 0089.5*	Punta de los Bunos.	36° 41.8´ N 2° 50.9´ W	**Fl.(4)W.** period 11s	72 **22**	11	White rectangular 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 four-sided tower.	
4437 *E 0091.6*	--Jetty No 1, head.	36° 42.0´ N 2° 47.9´ W	**Fl.(4)R.** period 11s	16 **5**	3	Red post; 10.	
4440 *E 0090*	**Punta Sabinal.**	36° 41.2´ N 2° 42.1´ 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**	Cylindrical masonry tower, white dwelling; 105.	
4444 *E 0092*	Roquetas de Mar, S. mole, head.	36° 45.5´ 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 cylindrical 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	Green cylindrical tower, green four-sided base; 10.	
4452 *E 0093*	**Almeria.**	36° 49.7´ 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**	White four-sided tower, black stripe; 23.	Reserve light range 11M.
4456 *E 0095*	-Puerto Pesquero, Dique Sur, head.	36° 49.9´ N 2° 29.1´ 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; 16.	
4460 *E 0094*	--Dique del Oeste, head.	36° 49.8´ N 2° 29.1´ W	**Fl.(3)R.** period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	33 **10**	4	Red truncated conical tower; 16.	
4461 *E 0095.65*	-Muelle de Pechina, SE. end.	36° 49.8´ N 2° 28.7´ W	**Fl.(2)G.** period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	23 **7**	3	Green post; 10.	
4461.1 *E 0095.6*	--NW. end.	36° 49.9´ N 2° 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	23 **7**	3	Green post; 10.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SPAIN-MEDITERRANEAN SEA				
4462 *E 0095.5*	-Muelle de Armamento, S. head.	36° 50.0´ N 2° 29.0´ 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	16 **5**	1	Red column; 10.	
4464 *E 0096*	-W. breakwater, head.	36° 49.6´ N 2° 27.9´ W	**Fl.R.** period 5s fl. 1s, ec. 4s	62 **19**	7	White octagonal tower, red top; 39.	F.R. shown adjacent to pilot house and on pier. Once inside, range marks middle of port.
4468 *E 0099*	-Muelle de Poniente, SE. corner.	36° 49.8´ N 2° 28.3´ W	**Fl.(2)R.** period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	16 **5**	1	Red column; 10.	
4469 *E 0100.4*	-RoRo ramp.	36° 50.0´ 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 column; 10.	
4472 *E 0098*	-E. breakwater, head.	36° 49.8´ 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 column, red band; 3.	
4473 *E 0101.4*	-Dique de Abrigio, head.	36° 49.8´ N 2° 27.8´ W	**Fl.(2)G.** period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	13 **4**	1	Green column; 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 column; 10.	
4474 *E 0101*	-Ore Wharf No 1, head.	36° 49.9´ N 2° 27.8´ W	**Fl.R.** period 4s fl. 1s, ec. 3s		1	Green post.	
4476 *E 0102*	-Ore Wharf No 2, head.	36° 49.7´ N 2° 27.6´ W	**Fl.G.** period 5s fl. 0.5s, ec. 4.5s	25 **8**	4	Metal framework tower; 10.	
4484 *E 0103*	-Power station wharf.	36° 49.2´ N 2° 26.7´ W	**V.Q.(9)W.** period 10s	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, buoy, topmark.	
4492 *E 0106*	**Cabo de Gata.**	36° 43.3´ N 2° 11.6´ W	**Fl.W.R.** period 4s fl. 0.2s, ec. 3.8s	180 **55**	W. **24** R. **20**	White cylindrical tower, dwelling; 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).
4495 *E 0107.7*	Punta de la Polacra.	36° 50.5´ N 2° 00.2´ 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 trunicated conical tower; 45.	
4496 *E 0108*	**Mesa Roldan.**	36° 56.5´ N 1° 54.4´ 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	728 **222**	**23**	White octagonal tower, white building; 59.	
4500 *E 0109*	Puerto de Carboneras, Playa de la Torre Vieja, S. breakwater, head.	36° 57.8´ N 1° 53.7´ W	**Fl.(2)G.** period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	39 **12**	5	Green cylindrical tower; 10.	
4504 *E 0109.2*	--S. breakwater, elbow.	36° 58.1´ N 1° 53.8´ 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° 53.6´ W	**Fl.G.** period 10s fl. 1s, ec. 9s	46 **14**	5	Green post; 13.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SPAIN-MEDITERRANEAN SEA				
4508 *E 0109.3*	--W. jetty.	36° 57.8´ N 1° 53.9´ W	**Fl.(2)R.** period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	23 **7**	3	Red cylindrical tower; 10.	
4510 *E 0109.6*	-Puerto Pesquero.	36° 59.3´ 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 hexagonal 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 hexagonal tower; 20.	
4512 *E 0110*	Garrucha.	37° 10.4´ 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 cylindrical tower, white building; 33.	
4516 *E 0111*	-Dique de Levante.	37° 10.7´ N 1° 49.0´ W	**Fl.(3)G.** period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	43 **13**	5	Green cylindrical tower; 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° 49.1´ W	**Fl.(4)R.**	21 **6**	1	Red truncated conical tower; 10.	
4522 *E 0113*	Esperanza Cove.	37° 15.0´ N 1° 46.0´ W	**Q.(2)G.** period 6s	26 **8**	5	Green truncated pyramidal tower; 10.	
4524 *E 0114*	Aguilas, on Punta Negra, W. of the port.	37° 24.1´ N 1° 34.7´ W	**Fl.(2)W.** period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	99 **30**	13	White cylindrical tower, black bands; 75.	
4528 *E 0116*	-Near mole, head.	37° 24.2´ N 1° 34.4´ W	**Fl.(3)R.** period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	30 **9**	3	Red post; 16.	
4532 *E 0117.5*	-Islote de la Aguilica.	37° 24.2´ N 1° 34.0´ W	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	62 **19**	3	White four-sided column.	
4536 *E 0120*	**Mazarron.**	37° 33.6´ N 1° 15.3´ 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 cylindrical tower, 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.	
4541 *E 0120.7*	-La Galerica Island.	37° 34.0´ 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 square daymark, base; 23.	
4548 *E 0124*	**Cabo Tinoso.**	37° 32.1´ N 1° 06.5´ 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 cylindrical tower; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SPAIN-MEDITERRANEAN SEA				
	ALGAMECA GRANDE:						
4552 *E 0125*	-Breakwater, head.	37° 35.0´ 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° 35.1´ N 1° 00.3´ 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**	3	White and yellow truncated conical tower; 16.	
4560 *E 0125.6*	-Mole, about 284 meters NW. of breakwater.	37° 35.1´ N 1° 00.5´ W	**F.G.**	23 **7**	2	Gray post; 13.	Occasional.
	CARTAGENA:						
4564 *E 0126*	**-Islote Escombrera.**	37° 33.5´ N 0° 58.2´ W	**Fl.W.** period 5s fl. 0.2s, ec. 4.8s	213 **65**	**17**	White cylindrical tower, 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 cylindrical 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 cylindrical 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, "X" 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.W.R.G.** period 4s fl. 3s, ec. 1s	43 **13**	3	White tower; 33.	Oc.G.129°-134°, Oc.W.-144°, Oc.R.-158°30'.
4576.5 *E 0126.5*	--Muello 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.	
4576.75 *E 0126.65*	--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 *E 0126.64*	--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 *E 0126.7*	--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.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SPAIN-MEDITERRANEAN SEA				
4577.4 *E 0126.8*	- - -Atraque Oeste, NW. corner.	37° 34.3´ N 0° 57.6´ W	**Dir.W.R.G.** period 4s	46 **14**	5	White tower; 36.	Iso.G.084°-087°, Iso.W. - 089°, Iso.R.-094°.
4577.5 *E 0126.75*	- - - -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 post, red band; 10.	
4588 *E 0128*	-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 cylindrical tower, red top; 36.	
4590 *E 0130.2*	-Espalmador, floating breakwater, head.	37° 35.3´ N 0° 59.2´ W	**Q.R.**		1	Red column.	
4592 *E 0130*	-Dique de la Curra (Este).	37° 35.3´ N 0° 59.0´ 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 cylindrical tower, green band; 36.	
4593 *E 0130.5*	-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 *E 0131*	-Yacht club, W. end.	37° 35.8´ N 0° 59.3´ W	**Oc.G.** period 3s	16 **5**	1	Green post; 16.	
4594.2 *E 0131.2*	-Marina, outer breakwater.	37° 35.8´ N 0° 59.1´ W	**Q.G.**	16 **5**	1	Green column; 13.	
4594.4 *E 0131.3*	- -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 *E 0132*	-Dique-muelle de Santiago, head.	37° 35.8´ N 0° 58.5´ 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 *E 0132.2*	-Muelle de talleres, NW. corner.	37° 35.8´ N 0° 58.5´ W	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	16 **5**	1	Green post; 10.	
4595.75 *E 0132.5*	-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 *E 0134*	Puerto de Portman, Punta de la Chapa.	37° 34.7´ N 0° 50.5´ W	**Oc.W.** period 3.5s lt. 2.5s, ec. 1s	161 **49**	13	White cylindrical tower, aluminum cupola, dwelling; 26.	Visible over an arc of 270°.
4600 *E 0136.8*	**Cabo de Palos.**	37° 38.1´ N 0° 41.4´ W	**Fl.(2)W.** period 10s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 7.2s	266 **81**	**23**	Cylindrical tower, building; 138.	
	PUERTO DE CABO DE PALOS:						
4604 *E 0137*	-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 cylindrical post; 10.	
4608 *E 0137.3*	-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 cylindrical post; 10.	

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			SPAIN-MEDITERRANEAN SEA				
4611 *E 0140.8*	Mar Menor, pier, end.	37° 38.7´ N 0° 45.7´ W	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s	16 **5**	5	Red cylindrical column;10.	
4611.5 *E 0140.851*	-Yacht Club, breakwater.	37° 38.9´ N 0° 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	16 **5**	3	Red cylindrical column; 10.	
4611.7 *E 0140.9*	-Los Nietos, breakwater, end.	37° 39.2´ N 0° 47.1´ W	**Fl.(3)R.** period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s		3	Red cylindrical column; 16.	
4616 *E 0138*	Isla Hormiga.	37° 39.3´ N 0° 39.0´ 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 cylindrical tower, white building; 39.	
4624 *E 0140*	El Estacio.	37° 44.7´ N 0° 43.6´ 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 cylindrical tower, black bands; 95.	Fl.W. 2.5s light shown SSE.
4624.5 *E 0140.2*	Puerto Tomas Maestre, head.	37° 44.4´ N 0° 43.3´ W	**V.Q.(3)W.** period 5s	23 **7**	3	E. CARDINAL BYB, column, topmark; 16.	
4628 *E 0139*	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 cylindrical tower; 7.	
4632 *E 0141*	San Javier AVIATION LIGHT.	37° 47.2´ N 0° 48.2´ W	**Fl.W.** period 6s			Control tower.	Occasional.
4636 *E 0141.5*	San Pedro del Pinatar, N. dique, head.	37° 49.3´ N 0° 45.0´ 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 cylindrical post; 10.	Fl.(4)R. 12s 6m 3M marks head of S. dique.
4640 *E 0146*	Torrevieja, 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 *E 0146.2*	-W. breakwater, about 229 meters NW. of Torrevieja, 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 *E 0146.4*	-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 *E 0146.6*	-Yacht Club jetty, E. head.	37° 58.4´ 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 *E 0147*	**Guardamar.**	38° 04.3´ N 0° 39.9´ W	**Oc.R.** period 1.5s lt. 1s, ec. 3s	1453 **443**	**15**	White radio tower, red bands.	On the same tower 7 groups of F.R. horizontal lights, spaced 45 meters apart from top, are shown.
4650 *E 0147.5*	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 octogonal 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 *E 0148*	**Isla Tabarca (Plana).**	38° 09.8´ N 0° 28.3´ W	**L.Fl.W.** period 8s fl. 2s, ec. 6s	95 **29**	**15**	Four-sided tower, white dwelling; 46.	
4656 *E 0149*	-Breakwater, NE. side of island, head.	38° 10.1´ N 0° 28.7´ W	**Fl.(2)R.** period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	30 **9**	3	Red post; 13.	
4664 *E 0152*	**Cabo Santa Pola.**	38° 12.6´ 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 four-sided tower, white building; 49.	
4668 *E 0154*	-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 *E 0155*	-Contradique, extremity.	38° 11.2´ N 0° 33.8´ W	**Q.(2)R.** period 5.3s	26 **8**	3	Red and white octagonal tower; 16.	
	ALICANTE:						
4676 *E 0157*	-Alicante AVIATION LIGHT.	38° 17.2´ N 0° 33.8´ W	**Al.Fl.W.G.** period 4.3s	193 **59**		Metal framework tower.	
4680 *E 0158*	-Outer breakwater, head.	38° 19.7´ N 0° 29.4´ W	**Fl.G.** period 5s fl. 1.5s, ec. 3.5s	46 **14**	10	Green framework tower, green cupola; 30.	
4682.5 *E 0158.6*	- -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 cylinderal tower, white base; 20.	
4684 *E 0161*	-E. mole, head.	38° 20.3´ 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 cylindrical tower, white base; 20.	
4688 *E 0162*	-SE. corner of W. mole.	38° 20.3´ N 0° 29.0´ W	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s	26 **8**	3	Red cylindrical tower, white base; 20.	
4692 *E 0159*	-Fishing Harbor, mole, elbow.	38° 19.9´ 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 cylindrical tower, green band; 20.	
4696 *E 0159.3*	- -Muelle II, mole, head.	38° 20.1´ 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 cylindrical tower, white base; 20.	
4700 *E 0160*	- -Muelle A, head.	38° 20.2´ N 0° 29.1´ 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 cylindrical tower, green band, white base; 20.	
4702 *E 0164*	Costa Blanca, pier, end.	38° 21.7´ N 0° 26.4´ W	**Fl.G.** period 5s fl. 0.5s, ec. 4.5s	20 **6**	3	Green and white cylindrical column; 10.	
4704 *E 0166*	Cabo de las Huertas.	38° 21.2´ N 0° 24.3´ 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 cylindrical tower; 30.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
	SPAIN-MEDITERRANEAN SEA						
	VILLAJOYOSA:						
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 top, green base; 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° 30.1´ 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, Dique de Abrigo, 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 316°-254°.
4724 *E 0173.6*	**Punta Bombarda (Albir).**	38° 33.8´ 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 cylindrical 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° 35.3´ 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° 36.8´ N 0° 01.9´ 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	23 **7**	1	Green cylindrical tower, white base; 13.	
4732.75 *E 0174.6*	-Contradique, head.	38° 36.8´ N 0° 01.9´ 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	23 **7**	3	Red cylindrical 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 cylindrical 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 cylindrical tower; 20.	
4734 *E 0174.9*	-E. head.	38° 37.7´ N 0° 00.0´ E	**Q.(6)+L.Fl.W.** period 15s	33 **10**	3	Black and yellow cylindrical tower; 20.	
4736 *E 0175.4*	Calpe, S. breakwater.	38° 38.2´ N 0° 04.0´ 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° 04.2´ 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.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SPAIN-MEDITERRANEAN SEA				
4741 *E 0175.8*	Cala Canaret.	38° 39.6´ N 0° 05.1´ 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**	3	Red truncated conical tower, white base; 10.	
			SPAIN-ISLAS BALEARES				
	ISLA DE FORMENTERA:						
4744 *E 0250*	**-Formentera.**	38° 39.8´ N 1° 35.1´ E	**Fl.W.** period 5s fl. 0.4s, ec. 4.6s	466 **142**	**23**	White cylindrical tower, 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 cylindrical 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 truncated 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	STARBOARD (A) G, tower, topmark; 26.	
4768 *E 0256*	Isla Espardell, N. point.	38° 48.3´ N 1° 28.7´ 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, white cylindrical 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 cylindrical tower, black bands; 82.	
4774 *E 0253.5*	Isla de Gastabi.	38° 46.5´ N 1° 25.0´ 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° 25.2´ 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, black bands, white building; 56.	
	ISLA DE IBIZA:						
4784 *E 0274*	**-Isla Conejera.**	38° 59.6´ N 1° 12.8´ 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 cylindrical tower, white circular dwelling; 59.	
4788 *E 0276*	-Bleda Plana, on islet.	38° 58.8´ 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 cylindrical tower, white base; 26.	Visible 349°-239°.
4796 *E 0273*	- -Punta Xinxo.	38° 58.4´ 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	STARBOARD (A) G, column, topmark; 26.	Visible 075°-275°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SPAIN-ISLAS BALEARES				
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	PORT (A) R, tower, topmark; 30.	
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 truncated pyramidal 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, building; 75.	
4804 *E 0270*	**-Punta Moscarte.**	39° 06.8´ N 1° 31.8´ E	**Fl.W.** period 5s fl. 0.3s, ec. 4.7s	305 **93**	**18**	White cylindrical tower, black diagonal stripes; 171.	Visible 074°-294°.
	-Puerto de Ibiza:						
4808 *E 0264*	--Islote Botafoch, breakwater, root.	38° 54.2´ N 1° 27.2´ E	**Oc.W.R.** period 7s lt. 5s, ec. 2s	102 **31**	14	White cylindrical tower, white dwelling; 52.	W. 045°-034°, R.-045°, obscured by Isla Grossa. **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 cylindrical column; 20.	
4810.1 *E 0264.2*	--Muelle Botafoch, S. dock, dolphin.	38° 54.4´ N 1° 27.0´ 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	13 **4**	1	SPECIAL Y, post, "X" topmark, 3.	
4810.2 *E 0264.3*	---N. pier, head.	38° 54.5´ N 1° 27.0´ 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	13 **4**	1	SPECIAL Y, post, "X" topmark, 3.	
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 cylindrical tower, conical base; 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	STARBOARD (A) G, structure, topmark; 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° 54.6´ 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 conical 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.	
4821.5 *E 0265.8*	--W. breakwater, SE. pier, head.	38° 54.8´ N 1° 26.6´ 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 and white post; 10.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SPAIN-ISLAS BALEARES				
4822 *E 0265.9*	- - -Center.	38° 54.8´ N 1° 26.6´ E	**Fl.(2)R.** period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	16 **5**	1	Red and white truncated pyramidal tower; 10.	
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; 10.	
4823.1 *E 0266.3*	- - - -W. side.	38° 54.8´ N 1° 26.5´ E	**Q.R.**	13 **4**	1	Red post, white band; 10.	
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 and white post, red square daymark; 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 and white post, red square daymark; 13.	
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° 51.8´ N 1° 11.4´ E	**Fl.W.** period 5s fl. 1s, ec. 4s	69 **21**	11	Truncated conical tower; 10.	Visible 262°-134°.
	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**	**20**	Red and white checkered tower, white dwelling; 69.	Visible 277°30′-169°.
4856 *E 0338.3*	-Cabo Lebeche.	39° 09.7´ N 2° 55.0´ 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° 55.7´ E	**Fl.R.** period 4s fl. 0.5s, ec. 3.5s	43 **13**	7	White octagonal tower, red square daymark; 16.	
4864 *E 0339*	-Puerto de Cabrera, mole, head.	39° 09.0´ N 2° 56.0´ E	**Fl.(2)R.** period 10.5s fl. 0.5s, ec. 2.2s fl. 0.5s, ec. 7.3s	15 **5**	5	Red cylindrical tower, white base; 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 cylindrical tower, black bands; 43.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SPAIN-ISLAS BALEARES				
	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	White cylindrical tower, white building; 56.	Visible 265°-116°.
4876 *E 0314.4*	-Puerto de Campos, pier, head.	39° 18.9´ 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	Red cylindrical tower, white base; 16.	
4880 *E 0314.6*	--Contradique, head.	39° 19.0´ N 2° 59.9´ E	**Fl.G.** period 4s fl. 1s, ec. 3s	14 **4**	1	Green cylindrical tower, white base; 10.	
4884 *E 0315*	-Punta Puntasa.	39° 18.7´ 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 cylindrical tower, black bands; 39.	
4885 *E 0314.2*	-Isla de la Guardia.	39° 18.6´ N 3° 00.0´ E	**V.Q.(9)W.** period 10s	23 **7**	3	W. CARDINAL YBY, tower, topmark; 16.	
4887 *E 0314.8*	-Rapita, breakwater, head.	39° 21.6´ N 2° 57.2´ E	**Fl.R.** period 2.5s fl. 0.5s, ec. 2s	23 **7**	5	Red cylindrical tower; 19.	
4888 *E 0315.8*	-Punta Plana.	39° 21.2´ N 2° 54.8´ 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 cylindrical tower, black bands; 39.	
4892 *E 0316*	**-Cabo Blanco.**	39° 21.8´ N 2° 47.3´ E	**L.Fl.W.** period 10s fl. 2s, ec. 8s	312 **95**	**15**	White cylindrical tower, white dwelling; 39.	Obscured beyond Archipielago de Cabrera 321°-336°.
4895 *E 0316.3*	-El Arenal, shelter dike, head.	39° 30.2´ N 2° 44.8´ 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 cylindrical tower, green band; 13.	
4895.1 *E 0316.35*	---Elbow.	39° 30.0´ N 2° 44.8´ E	**Q.(9)W.** period 15s	20 **6**	3	W. CARDINAL YBY, column, topmark; 7.	
4895.2 *E 0316.55*	--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 *E 0316.6*	--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 column post; 10.	
4896 *E 0316.4*	-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	16 **5**	1	Red column, green band; 23.	
4896.5 *E 0316.5*	---SW. corner.	39° 30.1´ N 2° 44.8´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	13 **4**	1	Red cylindrical tower; 10.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SPAIN-ISLAS BALEARES				
4900 *E 0316.7*	-L'an Pastilla, outer breakwater, head.	39° 31.9´ N 2° 43.0´ E	**Fl.(4)R.** period 13s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 6.5s	26 **8**	5	Red column, white base; 20.	
4901 *E 0316.72*	-E. breakwater, head.	39° 31.9´ N 2° 43.0´ E	**Fl.(4)G.** period 13s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 6.5s	20 **6**	3	Green column; 16.	
4902 *E 0316.74*	-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 *E 0317*	-Cala d'en Rigo, 600 meters E. of Cala Portixol, E. jetty, head.	39° 33.5´ N 2° 40.5´ E	**Fl.(2)G.** period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	23 **7**	3	Green three-sided tower; 13.	
4908 *E 0317.2*	--W. jetty, head.	39° 33.5´ N 2° 40.5´ E	**Fl.(2)R.** period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	23 **7**	5	Red three-sided tower; 16.	
4912 *E 0316.8*	-Portixol, Pier de Troneras, head.	39° 33.5´ N 2° 40.1´ 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	PORT (A) R, tower, topmark; 20.	
4916 *E 0316.82*	--Sa Raqueta Pier.	39° 33.5´ N 2° 40.2´ E	**Fl.(3)G.** period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	23 **7**	3	STARBOARD (A) G, tower, topmark; 20.	
4920 *E 0316.83*	--Inner breakwater, W. side.	39° 33.6´ N 2° 40.1´ 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	23 **7**	1	PORT (A) R, tower, topmark; 13.	
4924 *E 0316.84*	---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 post; 7.	
4932 *E 0318.8*	**-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.	
4934 *E 0319*	--Muelle de Poniente, E.	39° 33.3´ N 2° 38.2´ E	**Fl.(2+1)R.** period 10s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 6.5s	16 **5**	3	Red cylindrical column, green band; 10.	
4934.5 *E 0318.9*	---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 truncated conical column; 7.	
4935 *E 0320*	---N.	39° 33.2´ N 2° 37.8´ E	**Fl.(2)R.** period 10s	13 **4**	1	Red post; 7.	
4936 *E 0318*	--Dique del Oueste, head.	39° 33.2´ N 2° 38.3´ E	**Fl.R.** period 5s fl. 0.5s, ec. 4.5s	62 **19**	7	Red cylindrical tower, white building, red square daymark, white base; 43.	
4940 *E 0318.3*	---Outer elbow.	39° 33.0´ N 2° 38.4´ E	**V.Q.(3)W.** period 5s	52 **16**	5	E. CARDINAL BYB, tower, topmark; 33.	Visible 180°-047°. **Siren:** Mo.(P) ev. 30s (bl. 2s, si. 2s, bl. 6s, si. 2s, bl. 6s, si. 2s, bl. 2s, si. 8s). **Radar reflector.**

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SPAIN-ISLAS BALEARES				
4944 *E 0318.6*	---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, topmark; 26.	Visible 226°-090°. Obscured inside the harbor.
4946 *E 0328.08*	---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 post, green bands; 16.	
4948 *E 0328.3*	---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 post; 13.	
4949 *E 0328.31*	--Marina, pier, N. end.	39° 33.9´ 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 and white post; 10.	
4950 *E 0328*	--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 post; 10.	
4951 *E 0326.2*	--Muelle de Armamento, head.	39° 34.0´ N 2° 38.4´ 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.	
4951.5 *E 0326*	--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 post; 13.	Visible 185°-085.5°.
4952 *E 0328.42*	---S. head.	39° 33.3´ N 2° 37.7´ E	**Fl.Y.** period 5s fl. 0.5s, ec. 4.5s	16 **5**	1	Yellow post; 13.	
4960 *E 0328.38*	--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 post; 13.	
4964 *E 0328.39*	---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 post, green band; 13.	
4968 *E 0328.34*	--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 *E 0328.36*	---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 post, green band; 7.	
4976 *E 0322*	--Dique de Levante, SW. corner.	39° 33.6´ 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 cylindrical tower; 10.	Synchronized with 4980.
4980 *E 0322.2*	---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 post; 7.	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.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SPAIN-ISLAS BALEARES				
4996 *E 0328.32*	--Jonquet, jetty, head.	39° 34.0´ 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 post, green band; 7.	
5000 *E 0328.7*	-Cala Nova, Yacht school, S. mole.	39° 32.9´ 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 *E 0328.8*	-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	STARBOARD (A) G, tower, topmark; 20.	Fl.(3)R. 14s 4m 3M light marks outer breakwater.
5004 *E 0329.6*	-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	STARBOARD (A) G, tower, topmark; 13.	
5004.1 *E 0328.75*	--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 post; 10.	
5006 *E 0329*	--Yacht Harbor Pier, head.	39° 31.4´ N 2° 32.5´ 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	STARBOARD (A) G, tower, topmark; 20.	
5008 *E 0330*	**-Cap de Cala Figuera.**	39° 27.5´ N 2° 31.3´ 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 cylindrical tower, black diagonal stripes; 79.	**Siren:** 2 bl. ev. 12s (bl. 2s, si. 2s, bl. 2s, si. 6s). **DGPS Station.**
5012 *E 0332*	-Isla del Toro, on islet.	39° 27.7´ N 2° 28.3´ E	**Fl.W.** period 5s fl. 0.4s, ec. 4.6s	102 **31**	7	White truncated conical tower; 23.	
5012.3 *E 0332.3*	-Port Adriano, breakwater, S. end.	39° 29.2´ N 2° 28.5´ E	**V.Q.(9)W.** period 10s	43 **13**	3	W. CARDINAL YBY, tower, topmark; 10.	
5012.4 *E 0332.65*	---N. end.	39° 29.5´ N 2° 28.5´ E	**Fl.(2)G.** period 5s fl. 0.5s, ec. 0.7s fl. 0.5s, ec. 3.3s	43 **13**	5	Green post; 10.	
5013 *E 0333*	-Santa Ponza, breakwater, head.	39° 30.8´ N 2° 27.9´ E	**Fl.(3)G.** period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	33 **10**	5	STARBOARD (A) G, tower, topmark; 16.	
5014 *E 0333.2*	--Punta de Caleta.	39° 30.8´ N 2° 28.0´ 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**	3	Red column, red four-sided base; 13.	**Radar reflector.**
5016 *E 0334*	-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 cylindrical tower, black bands; 33.	Visible 304°24′-147°.
5020 *E 0336*	-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.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SPAIN-ISLAS BALEARES				
5022 *E 0336.8*	--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 *E 0336.6*	--New inner breakwater, head.	39° 32.8′ N 2° 23.1′ 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**	1	Red and white octagonal tower, white base, red square daymark; 13.	
5028 *E 0337*	--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	Green and white octagonal tower.	
	-Isla Dragonera:						
5030 *E 0286*	--Isla Mitjana.	39° 35.1′ N 2° 20.5′ E	**V.Q.(9)W.** period 10s	33 **10**	3	W. CARDINAL YBY, post, topmark; 13.	
5032 *E 0282*	**--Cabo Llebeitx.**	39° 34.5′ N 2° 18.3′ E	**Fl.W.** period 7.5s fl. 0.2s, ec. 7.3s	427 **130**	**20**	Cylindrical tower, building; 48.	Visible 313°-150°.
5036 *E 0284*	--Punta Tramontana.	39° 35.9′ N 2° 20.3′ E	**Fl.(2)W.** period 12s fl. 0.3s, ec. 2.7s fl. 0.3s, ec. 8.7s	219 **67**	14	Cylindrical tower, stone building; 49.	Visible 095°-230° and 346°-027°.
	-Puerto de Soller:						
5040 *E 0289*	**--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 cylindrical tower, house; 72.	Visible 054°-232°.
5044 *E 0288*	--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 *E 0290*	-Entrance Range, front.	39° 47.5′ N 2° 41.8′ E	**Dir.W.R.G.** period 4s	160 **49**	3	White cylindrical column, red square daymark, white band; 23.	Iso.G. 121°30′-123°30′, Iso.W.-124°30′, Iso. R.-126°.
5056 *E 0291*	--Dique D.E., head.	39° 47.7′ N 2° 41.5′ E	**Fl.R.** period 4s fl. 1s, ec. 3s	22 **7**	5	Red post; 7.	
5060 *E 0293*	--Muelle Comercial, elbow.	39° 47.8′ N 2° 41.6′ E	**Fl.(2+1)G.** period 9s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	13 **4**	1	Green post, red band; 10.	
5064 *E 0293.2*	---Head.	39° 47.8′ N 2° 41.7′ E	**Fl.(3)R.** period 9s	13 **4**	1	PORT (A) R, post topmark; 10.	
5068 *E 0296*	**-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 cylindrical tower, white dwelling; 72.	Visible 085°-006°.
5072 *E 0298*	**-Punta de la Avanzada.**	39° 54.0′ N 3° 06.6′ E	**Oc.(2)W.** period 8s lt. 4.5s, ec. 1s lt. 1.5s, ec. 1s	95 **29**	**15**	White octagonal tower, dwelling; 59.	Visible 234°-272°.
5076 *E 0301*	--Dique Norte, outer spur, head.	39° 54.1′ N 3° 05.1′ E	**Fl.(2)G.** period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	19 **6**	5	Green truncated conical tower; 13.	Fl.(2)R. 8s 2m 3M light marks NW. breakwater entrance.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SPAIN-ISLAS BALEARES				
5077 *E 0299.5*	---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 *E 0300.2*	--N. breakwater, head.	39° 54.2´ N 3° 05.1´ 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	Red cylindrical column, red house; 3.	Fl.(3)R. 9s 2m 1M light marks S. head.
5084 *E 0299*	--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 cylindrical post, white band; 13.	
5086 *E 0303.7*	-Punta Sabate.	39° 53.6´ N 3° 11.7´ E	**Fl.(3)W.** period 13s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 6s	154 **47**	5	White cylindrical tower, black band, white base; 39.	
5090 *E 0303*	-Puerto de Bonaire, dike, head.	39° 52.0´ N 3° 08.6´ 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, white dwelling; 7.	
5091 *E 0303.2*	--Muellede Ribera.	39° 52.0´ N 3° 08.6´ 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 cylindrical post; 13.	
	PUERTO DE ALCUDIA						
5096 *E 0306*	-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 *E 0306.5*	-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 truncated pyramidal tower, green band; 10.	NW. pier marked by 2 Fl.(2)G. 6s 4m 1M lights.
5098 *E 0307*	--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 truncated pyramidal tower, white base; 10.	
5099 *E 0306.6*	--Club de Amigos de Alcudia, dike, head.	39° 50.2´ N 3° 08.1´ E	**Fl.(3)R.** period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	16 **5**	3	Red truncated pyramidal tower, white base; 10.	
5100 *E 0304*	-Isla Aucanada, Bahia de Alcudia, N. side.	39° 50.1´ N 3° 10.3´ E	**Fl.W.** period 5s fl. 1s, ec. 4s	82 **25**	11	White cylindrical tower, dwelling; 49.	Visible 320°-289°.
5104 *E 0307.1*	-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 truncated pyramidal tower; 13.	Fl.(2)G. 6.5s marks head of contradike.
5105 *E 0307.16*	-Escuy C'an Barret.	39° 46.1´ N 3° 09.4´ E	**V.Q.(3)W.** period 5s	10 **3**	4	E. CARDINAL BYB, beacon, topmark; 10.	
5107 *E 0307.17*	-Puerto Deportivo Serranova, breakwater, head.	39° 44.4´ N 3° 13.2´ 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 and white cylindrical column; 7.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SPAIN-ISLAS BALEARES				
5107.5 *E 0307.19*	-Inner breakwater.	39° 44.4´ N 3° 13.2´ E	**Oc.G.** period 8s lt. 5s, ec. 3s	10 **3**	1	Green structure, green base; 7.	
5108 *E 0307.2*	-Colonia de San Pedro, breakwater, head.	39° 44.3´ N 3° 16.3´ 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 cylindrical column, white base; 10.	
5116 *E 0308*	**-Cabo de Pera.**	39° 42.9´ 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**	**20**	White cylindrical tower, white dwelling, red roof; 59.	Visible 148°-010°.
5120 *E 0308.2*	-Cala Ratjada, mole, head.	39° 42.5´ N 3° 27.8´ E	**Fl.G.** period 5s fl. 1s, ec. 4s	39 **12**	5	Green cylindrical column, white building, green triangular daymark point up; 10.	
5128 *E 0308.7*	--Dique Norte, head.	39° 36.9´ N 3° 23.6´ E	**Fl.(2)G.** period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	16 **5**	3	Green cylindrical tower, white building, green triangular daymark point up.	
5132 *E 0308.6*	-Cala Bona, Dique Sur, head.	39° 36.9´ N 3° 23.6´ E	**Fl.(2)R.** period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	16 **5**	5	Red cylindrical tower, white building, red square daymark; 7.	
5136 *E 0309*	-Cala Manacor (Porto Cristo), at entrance.	39° 32.1´ N 3° 20.4´ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	65 **20**	7	White cylindrical tower, black stripes; 20.	
5140 *E 0309.4*	--Punta des Pelats, mole, head.	39° 32.5´ N 3° 20.3´ 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**	3	Red octagonal tower; 7.	
5144 *E 0310*	**-Punta de ses Crestes o de la Farola.**	39° 24.8´ N 3° 16.2´ E	**Fl.(2)W.** period 10s fl. 0.3s, ec. 2.7s fl. 0.3s, ec. 6.7s	137 **42**	**20**	White tower, black bands, white dwelling, red roof; 82.	Visible 207°-006°.
5148 *E 0310.4*	-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 cylindrical tower, white dwelling, red square daymark; 23.	
5152 *E 0311*	--Mole, SE. corner.	39° 25.3´ N 3° 15.8´ E	**Fl.(3)R.** period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	15 **5**	1	Red octagonal tower, white base; 7.	
5154 *E 0311.2*	--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 mast; 7.	
5156 *E 0311.4*	-Cala Llonga.	39° 22.0´ 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 cylindrical tower, black stripes, dwelling; 20.	
5160 *E 0311.8*	-Puerto Petro, on Punta Sa Torre.	39° 21.3´ N 3° 12.9´ 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	White cylindrical tower, black stripes, white building; 30.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SPAIN-ISLAS BALEARES				
5162 *E 0311.9*	--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 *E 0312.2*	--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 cylindrical tower, red band, white four-sided base; 16.	
5172 *E 0312.6*	-Torre d'en Beu, on Cala Figuera de Santany, entrance, N. side.	39° 19.8´ N 3° 10.6´ E	**Fl.W.** period 5s fl. 1s, ec. 4s	105 **32**	12	White octagonal tower, black bands; 20.	
5176 *E 0313*	-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 cylindrical column, red building; 16.	
5180 *E 0366*	**Isla del Aire.**	39° 48.0´ N 4° 17.6´ E	**Fl.W.** period 5s fl. 0.2s, ec. 4.8s	174 **53**	**18**	White cylindrical tower, black bands, white house; 125.	Visible 111°-197°.
5182 *E 0367*	-Bajo es Caragol.	39° 48.6´ N 4° 15.2´ E	**Q.(6)+L.Fl.W.** period 15s	33 **10**	3	S. CARDINAL YB, beacon, topmark, 33.	
	ISLA DE MENORCA:						
5184 *E 0342*	**-Cabo D'Artruitx.**	39° 55.4´ N 3° 49.4´ 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 cylindrical tower, black bands, white building; 111.	Visible 267°-158°.
5188 *E 0344*	-Ciudadela, Calo Frares, W. side of entrance.	39° 59.8´ N 3° 49.3´ E	**Fl.W.** period 6s fl. 0.3s, ec. 5.7s	69 **21**	14	White tower, black bands, white building; 43.	Visible 004°-094°.
5192 *E 0345*	--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	PORT (A) R, column, topmark; 13.	
5196 *E 0345.4*	--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	STARBOARD (A) G, tower, topmark; 13.	
5200 *E 0345.6*	--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, green triangular daymark point up; 13.	
5204 *E 0345.9*	--Cala d'en Busquets, E. point, 600 meters 052° from Ciudadela.	40° 00.0´ N 3° 49.8´ E	**Dir.W.R.G.** period 5s fl. 1s, ec. 4s	29 **9**	W. 5 R. 3 G. 3	White four-sided tower; 10.	Fl.G. 042°-044°, Fl.W.-046°, Fl.R.-048°.
5208 *E 0345.8*	---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**	1	PORT (A) R, column, topmark; 13.	
5216 *E 0346.2*	--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	PORT (A) R, tower, topmark; 16.	
5220 *E 0348*	**-Punta Nati.**	40° 03.0´ N 3° 49.4´ 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, dwelling; 62.	Visible 039°-162°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SPAIN-ISLAS BALEARES				
5224 *E 0350*	**-Cabo de Caballeria.**	40° 05.3′ N 4° 05.5′ E	**Fl.(2)W.** period 10s fl. 0.1s, ec. 1.9s fl. 0.1s, ec. 7.9s	310 **94**	**22**	White cylindrical tower, white dwelling; 49.	Visible 074°-292°.
	-RACON		**B(– • • •)** period 72s		**22**		(3m).
5226 *E 0350.5*	-Cap de sa Pared.	40° 03.8′ N 4° 07.9′ E	**Fl.W.** period 2s fl. 0.5s, ec. 1.5s	95 **29**	7	White cylindrical tower, white base; 20.	
5228 *E 0351*	-Puerto de Fornells Range, front.	40° 02.9′ N 4° 08.2′ E	**Q.R.**	45 **14**	7	White truncated conical tower; 20.	Fl.G. marks Dique de Levante head.
5232 *E 0351.1*	--Rear, 110 meters 178°30′ from front.	40° 02.9′ N 4° 08.2′ E	**Iso.R.** period 4s	76 **23**	3	White truncated conical tower; 30.	
5236 *E 0352*	**-Cabo Favaritx.**	39° 59.8′ N 4° 16.0′ E	**Fl.(1+2)W.** period 15s fl. 0.2s, ec. 5.8s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 5.8s	154 **47**	**21**	White cylindrical tower, white stripes, dwelling; 92.	
5238 *E 0355*	-Punta del Espero.	39° 52.6′ N 4° 19.7′ 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**	7	White cylindrical tower, black bands; 36.	
	-Puerto de Mahon:						
5240 *E 0354*	--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 cylindrical tower, black bands, white square base; 49.	Visible 143°-183°.
5252 *E 0356*	--Punta Lazareto.	39° 52.6′ N 4° 18.1′ E	**Fl.(2)G.** period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	42 **13**	3	Green cylindrical tower, white base, green triangular daymark point up; 20.	
5256 *E 0358*	--Punta de Ne Cafayes (Cala Fonts) (Villacarlos).	39° 52.9′ N 4° 17.6′ E	**Fl.(3)R.** period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	27 **8**	3	PORT (A) R, column, topmark; 13.	
5260 *E 0359*	--Isla Plana de Mahan.	39° 52.9′ N 4° 17.9′ E	**Fl.(3)G.** period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	30 **9**	3	Green cylindrical tower; 20.	
5264 *E 0360*	--Punta de Villacarlas.	39° 53.0′ N 4° 17.3′ E	**Fl.(4)R.** period 11s	34 **10**	3	PORT (A) R, post, topmark; 13.	
5268 *E 0361*	--Isla del Rey, S. coast.	39° 53.1′ N 4° 17.2′ 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	43 **13**	3	STARBOARD (A) G, column, topmark; 43.	
5272 *E 0361.4*	---On Punta Sa Cova, N. part.	39° 53.3′ N 4° 17.2′ E	**Oc.R.** period 4s lt. 3s, ec. 1s	52 **16**	3	Red cylindrical tower; 20.	
5276 *E 0361.6*	--Punta de Sa Bassa.	39° 53.4′ N 4° 17.3′ E	**Oc.G.** period 4s	31 **9**	1	STARBOARD (A) G, column, topmark; 10.	
5277 *E 0363.67*	--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	STARBOARD (A) G, column, topmark; 3.	
5278 *E 0361.65*	--Dir. light 323°33′.	39° 53.4′ N 4° 17.2′ E	**Dir.Iso.W.R.G.** period 4s	30 **9**	3	Light on white house; 26.	G. 322°42′-323°18′, W.-323°48′, R.-324°24′.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SPAIN-ISLAS BALEARES				
5280 *E 0362.4*	--Isla del Pinta, S. point.	39° 53.5´ N 4° 16.2´ 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 *E 0362*	--Punta de Cala Figuera.	39° 53.4´ N 4° 16.6´ E	**Fl.R.** period 5s fl. 0.5s, ec. 4.5s	23 **7**	1	Post, red square daymark; 16.	
5288 *E 0364*	--Cala Taulera, I. Lazaretto.	39° 52.6´ 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 cylindrical tower; 20.	
5292 *E 0364.2*	--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 cylindrical tower; 20.	
5296 *E 0364.4*	---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 cylindrical tower; 20.	
			SPAIN-MEDITERRANEAN SEA				
5300 *E 0176*	**Cabo de la Nao.**	38° 44.0´ N 0° 13.8´ E	**Fl.W.** period 5s fl. 0.2s, ec. 4.8s	400 **122**	**23**	White octagonal tower, dwelling; 66.	Visible 190°-049°. DGPS Station.
	JAVEA:						
5304 *E 0179*	-Outer mole, head.	38° 47.7´ N 0° 11.2´ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	36 **11**	5	Green octagonal tower; 20.	
5308 *E 0179.4*	-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 octagonal tower; 20.	
5312 *E 0180*	**Cabo de San Antonio.**	38° 48.2´ 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 cylindrical tower, dwelling; 56.	Visible over an arc of 240°.
	DENIA:						
5316 *E 0186*	-Range, pier, head, front.	38° 50.4´ N 0° 06.9´ E	**Dir.W.R.G.** period 2.5s fl. 1s, ec. 1.5s	33 **10**	7	White cylindrical column, black bands, platform; 26.	Fl.G. 227°-228°30′, Fl.W.-229°30′, Fl.R.-231°.
5324 *E 0184*	-Dique Norte, head.	38° 50.9´ N 0° 07.5´ E	**Fl.(3)G.** period 11s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 5s	43 **13**	5	Green octagonal tower; 23.	
5328 *E 0187*	--Elbow.	38° 50.6´ N 0° 07.6´ 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	13 **4**	3	Green hexagonal column; 13.	
5329 *E 0187.5*	--Inner jetty, head.	38° 50.5´ N 0° 07.1´ E	**Fl.(2+1)G.** period 14.5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s fl. 0.5s, ec. 9s	16 **5**	1	Green and red post; 10.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SPAIN-MEDITERRANEAN SEA				
5332 *E 0185*	-Dique Sur, head.	38° 50.7´ N 0° 07.4´ E	**Fl.(4)R.** period 11s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 4s	30 **9**	3	Red octagonal tower; 23.	
5333 *E 0188*	--Elbow of Dique Sur.	38° 50.5´ N 0° 07.3´ E	**Fl.R.** period 5s fl. 0.5s, ec. 4.5s	10 **3**	1	Red hexagonal tower; 10.	
5334 *E 0188.5*	---Jetty, head.	38° 50.6´ N 0° 07.2´ E	**Fl.(2)R.** period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	13 **4**	1	Red hexagonal column; 10.	
5338 *E 0190*	-Club Nautico de Oliva, shelter dique.	38° 56.0´ N 0° 05.5´ W	**Fl.(2)G.** period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	23 **7**	5	White and green truncated pyramidal tower; 13.	
5338.5 *E 0190.2*	--Contradique.	38° 56.0´ N 0° 05.4´ W	**Fl.(2)R.** period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	23 **7**	3	White and red truncated pyramidal tower; 13.	
	GANDIA:						
5340 *E 0194*	-N. mole, head.	38° 59.7´ N 0° 08.7´ W	**Fl.G.** period 5s fl. 1s, ec. 4s	49 **15**	7	Green triangular tower; 39.	**AIS**.
5348 *E 0196*	-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, truncated conical base; 13.	
5352 *E 0197*	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 cylindrical tower, green base; 23.	
5356 *E 0197.2*	-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 cylindrical tower, red four-sided base; 23.	
5360 *E 0198*	**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 cylindrical tower, white circular dwelling; 52.	Aeromarine light. **AIS.**
5362 *E 0199*	El Perello, E. jetty, head.	39° 16.7´ N 0° 16.4´ W	**Fl.(3)G.** period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	26 **8**	4	Green four-sided tower; 10.	
5362.2 *E 0199.2*	-W. jetty, head.	39° 16.7´ N 0° 16.4´ 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 pyramidal column, red four-sided base; 16.	
5364 *E 0209*	**-Manises** AVIATION LIGHT.	39° 29.6´ N 0° 28.2´ W	**Al.Fl.W.G.** period 4s	213 **65**	**15**	Tower, control tower; 49.	Occasional.
	VALENCIA:						
5365 *E 0199.9*	-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 *E 0199.82*	---Middle.	39° 27.5´ N 0° 17.7´ W	**V.Q.W.**	52 **16**	3	N. CARDINAL BY, tower, topmark.	Visible 115°-295°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SPAIN-MEDITERRANEAN SEA				
5366.2 *E 0200.2*	---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 four-sided tower, white cylindrical base; 16.	
5368 *E 0200*	**-Dique del Norte,** breakwater, elbow.	39° 27.3´ N 0° 17.2´ W	**Fl.W.** period 10s fl. 0.8s, ec. 9.2s	115 **35**	**24**	Yellow and black octagonal tower, three white bands; 72.	**AIS** (MMSI No 992241055).
5368.5 *E 0200.5*	--Muelle Interior, S. corner, head.	39° 26.1´ N 0° 18.4´ W	**Fl.G.** period 5s fl. 1s, ec. 4s	20 **6**		Greeen cylindrical tower, truncated conical base; 13.	
5369 *E 0200.3*	-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 cylindrical tower, truncated conical base; 16.	
5370 *E 0200.1*	---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 cylindrical tower, truncated conical base; 10.	
5372 *E 0200.4*	-Nuevo Dique del Este, head.	39° 26.0´ N 0° 18.2´ W	**Fl.G.** period 5s fl. 1s, ec. 4s	69 **21**	5	Green cylindrical tower; 30.	
5374 *E 0201.15*	-Muelle Darsena Sur, breakwater, head.	39° 26.1´ N 0° 18.8´ W	**Fl.(3)R.** period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	43 **13**	3	Red cylindrical tower, truncated conical base; 13.	
5376 *E 0201.5*	-Nuevo Muelle Sur.	39° 26.2´ N 0° 19.2´ 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**	1	Green cylindrical tower, truncated conical base; 20.	
5380 *E 0201.2*	-Dique del Este, elbow.	39° 26.5´ N 0° 18.6´ W	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s	16 **5**	1	Red cylindrical tower, truncated conical base; 10.	
5384 *E 0201.4*	--S. head.	39° 26.5´ N 0° 18.8´ W	**Fl.(2)G.** period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	20 **6**	3	Green cylindrical tower, conical base; 16.	
5388 *E 0202*	-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 cylindrical tower, conical base; 16.	
5400 *E 0203.4*	-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 cylindrical tower, red band, truncated conical base.	
5404 *E 0204*	-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 cylindrical tower, truncated conical base; 13.	
5408 *E 0204.2*	--SE. corner.	39° 26.9´ N 0° 19.3´ 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	19 **6**	1	Green cylindrical tower, truncated conical base; 13.	
5412 *E 0205*	-Muelle de Poniente, head.	39° 27.2´ N 0° 19.4´ 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 cylindrical tower, green band, truncated conical base; 10.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SPAIN-MEDITERRANEAN SEA				
5421.6 *E 0201.11*	--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 cylindrical, white base; 30.	
5422 *E 0208.6*	-Nautical Club, E. Dique.	39° 25.4´ N 0° 19.4´ W	**Fl.(2)G.** period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	30 **9**	3	Green cylindrical tower, conical base; 13.	Fl.(3)G. shown on pier 200 meters WNW.
5423 *E 0208.65*	--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 cylindrical column, conical base.	Fl.(4)G. and Fl.(3)R. mark pier heads in harbor.
5424 *E 0209.6*	-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 cylindrical tower; 16.	
5424.5 *E 0209.7*	--NE. head.	39° 30.6´ N 0° 19.1´ 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 cylindrical tower; 16.	
5425 *E 0210*	-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 cylindrical tower, concrete dwelling; 16.	Fl.R. 3.5s shown from S. head of contradique.
	SAGUNTO:						
5425.5 *E 0210.8*	-Contradike, S. head.	39° 37.8´ N 0° 12.9´ W	**V.Q.(6)+L.Fl.W.** period 10s	56 **17**	3	S. CARDINAL YB, tower, topmark; 13.	
5425.6 *E 0211*	--Corner.	39° 38.0´ N 0° 12.7´ W	**Fl.R.** period 5s fl. 0.5s, ec. 4.5s	56 **17**	3	Red cylindrical conical tower; 13.	
5425.7 *E 0212.1*	--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 *E 0210.75*	-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 cylindrical column; 16.	**AIS.**
5429 *E 0210.9*	--W. side.	39° 38.0´ N 0° 12.4´ W	**Fl.(2)G.** period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	23 **7**	3	Green truncated conical tower; 13.	
5432 *E 0214*	--Corner.	39° 38.9´ N 0° 12.8´ 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	20 **6**	3	Red cylindrical tower, truncated conical base; 13.	
5433 *E 0212.2*	--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 cylindrical tower, conical base.	
5434 *E 0212.18*	-Muelle Sur, N. pier 2.	39° 38.6´ N 0° 12.8´ W	**Q.G.**	23 **7**	1	Green cylindrical tower, white truncated conical base; 13.	
5440 *E 0214.6*	-Darsena Pesquera, breakwater, head.	39° 39.1´ N 0° 12.7´ W	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	20 **6**	1	Green cylindrical tower; 13.	
5442 *E 0214.7*	--Contradike, head.	39° 39.2´ N 0° 12.6´ W	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s	20 **6**	1	Red cylindrical tower, truncated conical base; 13.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SPAIN-MEDITERRANEAN SEA				
5448 *E 0212.6*	--Dolphin, 73 meters SE.	39° 38.8´ N 0° 11.7´ W	**Q.(3)W.** period 10s	39 **12**	5	E. CARDINAL BYB, tower, topmark; 20.	
	-Puerto de Siles:						
5449 *E 0217*	--Breakwater, head.	39° 40.3´ N 0° 12.1´ 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**	5	Green cylindrical column, white base; 10.	
5449.5 *E 0217.2*	---Corner of breakwater.	39° 40.4´ N 0° 12.1´ 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	13 **4**	1	Green cylindrical column; 7.	
5450 *E 0217.4*	--Contradike, S. head.	39° 40.4´ N 0° 12.1´ W	**Fl.(3)R.** period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	16 **5**	3	Red cylindrical column; 10.	
5450.5 *E 0217.5*	---N. head.	39° 40.4´ N 0° 12.1´ 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	13 **4**	1	Red cylindrical column; 7.	
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**	Cylindrical tower, red top; 98.	**AIS.**
5454 *E 0218*	Nules.	39° 49.6´ N 0° 06.7´ W	**Oc.(2)W.** period 11s	125 **38**	14	Gray four-sided tower; 118.	
5456 *E 0219*	-Dique de Levante, head.	39° 51.4´ N 0° 04.0´ W	**Fl.(2)G.** period 8s fl. 1s, ec. 1.5s fl. 1s, ec. 4.5s	39 **12**	5	Green hexagonal 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 truncated conical tower; 20.	
5464 *E 0221*	-Dique de Poniente, head.	39° 51.3´ N 0° 04.2´ W	**Fl.(2)R.** period 8s fl. 1s, ec. 1.5s fl. 1s, ec. 4.5s	33 **10**	3	Red structure, white dwelling; 26.	
	REFINERIA DE CASTELLON:						
5476 *E 0224*	-Terminal platform.	39° 56.6´ 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 cylindrical tower; 89.	
5482 *E 0226.1*	--Dique de Levante, SW. head.	39° 57.6´ 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 cylindrical tower, truncated conical base; 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.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SPAIN-MEDITERRANEAN SEA				
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 post; 10.	
5488 *E 0226.2*	-Muelle Transversal, S. corner.	39° 58.2´ N 0° 01.3´ E	**Fl.G.**	20 **6**	3	Green truncated pyramidal 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 hexagonal tower, white base; 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 truncated conical tower, green band; 10.	
5504 *E 0222*	**Islas Columbretes.**	39° 54.0´ N 0° 41.2´ E	**Fl.(3+1)W.** period 22s fl. 0.2s, ec. 2.5s fl. 0.2s, ec. 2.5s fl. 0.2s, ec. 8.1s fl. 0.2s, ec. 8.1s	279 **85**	**21**	White cylindrical tower, dwelling; 66.	
	RACON		**C(– • – •)** period 72s		**22**		(3m).
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.	
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.(2)G.** period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	26 **8**	5	Green hexagonal 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 cylindrical tower, white building; 43.	
5518 *E 0231.6*	Cabo de Irta.	40° 15.6´ N 0° 18.1´ E	**Fl.(4)W.** period 18s	108 **33**	14	White four-sided tower; 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 cylindrical 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**	White octagonal tower, white dwelling; 36.	Visible 184°-040°. Reserve light range 12M.
5524 *E 0234.4*	-Fish pier, head.	40° 21.3´ N 0° 24.2´ 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**	3	Red cylindrical column; 20.	
5528 *E 0234*	-E. breakwater.	40° 21.2´ N 0° 24.1´ E	**Fl.(3)G.** period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	49 **15**	4	Green cylindrical column; 23.	
5532 *E 0238*	Benicarlo, on E. breakwater, head.	40° 21.2´ N 0° 24.1´ E	**Fl.(2)G.** period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	43 **13**	5	Green four-sided tower; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SPAIN-MEDITERRANEAN SEA				
5536 *E 0239*	-On S. breakwater, head.	40° 24.8´ N 0° 26.0´ E	**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**	3	Red octagonal tower; 13.	Fl.(2)R. 6s 3M shown from SE. corner.
5540 *E 0239.4*	-Fish pier, head.	40° 24.9´ N 0° 26.0´ E	**Fl.(2+1)G.** period 15s	24 **7**	3	Red cylindrical post, green band; 10.	
5541 *E 0239.2*	-Inner harbor entrance, E. side, esplanade pier.	40° 24.8´ N 0° 26.1´ E	**Fl.(3)G.** period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	16 **5**	1	White building, green triangular daymark point up.	
5544 *E 0244*	Vinaroz, E. mole, head.	40° 27.4´ N 0° 28.6´ E	**Fl.G.** period 5s fl. 1s, ec. 4s	46 **14**	8	Green cylindrical 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° 27.8´ N 0° 28.6´ E	**Fl.(3)G.** period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	26 **8**	3	Green cylindrical 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° 27.6´ N 0° 28.5´ E	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s	16 **5**	3	Red post; 10.	
5556 *E 0370.3*	-Darsena Departivo, Dique Sur, head.	40° 33.1´ N 0° 32.0´ 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	26 **8**	5	Red truncated pyramidal tower; 13.	
5560 *E 0370.35*	--Contradique de Levante, head.	40° 33.1´ N 0° 31.9´ 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**	3	Green truncated pyramidal column; 10.	
5564 *E 0370.6*	Cement wharf.	40° 34.3´ N 0° 33.4´ E	**Fl.R.** period 5s fl. 0.5s, ec. 4.5s	26 **8**	3	Red four-sided tower; 7.	
5565 *E 0371*	-Inner mole, head.	40° 34.4´ N 0° 33.0´ E	**Fl.(2+1)G.** period 14.5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s fl. 0.5s, ec. 9s	26 **8**	2	Green four-sided tower, red band; 10.	

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			SPAIN-MEDITERRANEAN SEA				
	PUERTO DE LOS ALFAQUES:						
5568 *E 0370*	-Punta de la Bana.	40° 33.6´ N 0° 39.7´ E	**Fl.(2)W.** period 12s fl. 1s, ec. 2s fl. 1s, ec. 8s	89 **27**	12	White cylindrical tower, black band; 85.	**AIS** (MMSI No 992241370).
5572 *E 0371.2*	-Punta Corballera.	40° 34.6´ N 0° 35.8´ E	**Fl.W.G.** period 4s fl. 0.5s, ec. 3.5s	43 **13**	W. 6 G. 4	Cylindrical tower, black base, truncated cone; 39.	G. 000°-180°, W.-000°.
5576 *E 0373*	San Carlos de la Rapita, Punta Sanieta.	40° 36.5´ N 0° 35.1´ E	**Oc.(4)R.** period 10s	33 **10**	11	Metal cupola, white building; 23.	
5580 *E 0374*	-Dique de Abrigo, head.	40° 36.5´ N 0° 36.3´ E	**Fl.(2)R.** period 8s fl. 1s, ec. 1.5s fl. 1s, ec. 4.5s	26 **8**	3	Red truncated pyramidal column; 16.	**Radar reflector.**
5592 *E 0375*	Muelle de hierro.	40° 36.1´ N 0° 41.4´ E	**Q.W.**	26 **8**	3	N. CARDINAL BY, tower, topmark.	Visible 082°-229°.
5598 *E 0377*	Cabo Tortosa.	40° 42.9´ N 0° 55.7´ E	**Fl.W.R.** period 6s fl. 0.3s, ec. 5.7s	59 **18**	W. 14 R. 10	Metal framework tower, black tripod.	W. 127°-047°, R.-127°. **AIS** (MMSI No 992241377). **Radar reflector.**
	RACON		**T(–)** period 30s		**15**		(3 & 10cm).
5599 *E 0376*	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, "X" topmark; 36.	
5600 *E 0380*	Punta del Fangar.	40° 47.4´ N 0° 46.1´ 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 cylindrical tower, red band; 59.	**AIS** (MMSI No 992241380).
5604 *E 0380.55*	-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 *E 0380.5*	-Jetty, head.	40° 48.5´ N 0° 42.6´ E	**Fl.G.** period 5s fl. 0.5s, ec. 4.5s	33 **10**	5	Green truncated pyramidal tower; 16.	
5610 *E 0381*	Estany Gras, marina.	40° 52.2´ N 0° 47.7´ 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	46 **14**	5	Green truncated pyramidal tower; 16.	
5612 *E 0381.5*	Ametlla del Mar, breakwater, head.	40° 52.7´ N 0° 48.2´ E	**Fl.(3)G.** period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	55 **17**	5	Green four-sided metal tower, white building; 33.	
5614 *E 0382.3*	Puerto Deportive Calafat.	40° 55.6´ N 0° 51.0´ E	**Fl.G.** period 5s fl. 0.5s, ec. 4.5s	30 **9**	5	Green truncated pyramidal tower; 20.	
5614.5 *E 0382.4*	-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 truncated pyramidal tower; 13.	
5615 *E 0382.5*	Hospitalet del Infante, dique, SE. head.	40° 59.2´ N 0° 55.6´ 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	33 **10**	5	Green truncated pyramid tower; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SPAIN-MEDITERRANEAN SEA				
5615.5 *E 0382.6*	-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 pyramidal tower, 10.	
5616 *E 0384*	Cambrils, W. mole, head.	41° 03.7´ N 1° 03.6´ E	**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 cylindrical tower; 30.	
5620 *E 0383*	-E. mole, head.	41° 03.6´ N 1° 03.7´ 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 four-sided tower; 37.	
5624 *E 0385*	Embarcadero de Salou, dique de levante.	41° 04.4´ N 1° 07.8´ E	**Fl.(2)G.** period 8s fl. 1s, ec. 1.5s fl. 1s, ec. 4.5s	30 **9**	5	Green column; 16.	
5628 *E 0385.5*	-Dique de poniente, head.	41° 04.4´ N 1° 07.8´ E	**Fl.(2)R.** period 8s fl. 1s, ec. 1.5s fl. 1s, ec. 4.5s	13 **4**	3	Red post; 7.	
5632 *E 0386*	**Cabo de Salou.**	41° 03.3´ N 1° 10.3´ 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, white building; 36.	**AIS** (MMSI No 992241386). **DGPS Station.**
5634 *E 0386.1*	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 *E 0386.15*	-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	*LANBY,* Tanker.	41° 04.1´ N 1° 13.2´ 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		5	SPECIAL Y, superbuoy, "X" topmark; 20.	4 Fl.Y. 2s 1M nearby. **AIS.** **Radar reflector.**
	TARRAGONA:						
5640 *E 0386.6*	-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 *E 0386.7*	-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.	
5641.2 *E 0386.72*	- -Head.	41° 05.3´ 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 cylindrical post; 7.	
5641.5 *E 0386.71*	- -SE. head.	41° 05.3´ N 1° 12.7´ 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 cylindrical structure, green band, white post; 7.	
5652 *E 0388*	-Dique de Levante.	41° 05.3´ N 1° 13.6´ E	**Oc.W.** period 3s lt. 2s, ec. 1s	89 **27**	1	Gray cylindrical tower, metal piles; 59.	F.R. lights on silo 550 meters ENE. and chimney 1.8 km. WNW.
5660 *E 0388.4*	-Muelle de Aragon.	41° 06.0´ N 1° 14.0´ E	**Fl.(4)G.** period 11s	23 **7**	3	Green conical structure, white post; 13.	
5662 *E 0388.2*	-Muelle de Cataluna, NE. corner.	41° 05.8´ N 1° 13.7´ E	**Fl.(3)G.** period 9s	26 **8**	1	Green conical structure, white post; 13.	
5664 *E 0393*	-Contradique, E. corner.	41° 06.0´ N 1° 13.7´ E	**Fl.R.** period 5s fl. 0.5s, ec. 4.5s		3	PORT (A) R, mast, topmark.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SPAIN-MEDITERRANEAN SEA				
5665 *E 0393.2*	--W. corner.	41° 05.8´ N 1° 13.4´ 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	Red cylindrical column, green band; 13.	
5668 *E 0392.6*	-Muelle de Castilla.	41° 06.1´ N 1° 13.8´ 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	Red cylindrical structure, green band, white post; 13.	
5670 *E 0389*	-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 cylindrical structure, white post; 13.	
5676 *E 0392*	--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	Red cylindrical structure, white post; 13.	
5678 *E 0392.1*	-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 *E 0392.12*	--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 conical structure; 7.	Fl.G. 5s marks bridge N. side. Fl.(2)G. 5s marks breakwater head NE.
5682 *E 0388.12*	-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 cylindrical tower; 36.	
5682.2 *E 0388.16*	--NW. head.	41° 04.7´ N 1° 12.8´ E	**Fl.G.** period 5s fl. 1.5s, ec. 3.5s	30 **9**	5	Green and white truncated conical tower; 10.	
5684 *E 0388.35*	-E. breakwater, spur, head.	41° 05.4´ N 1° 13.4´ E	**Fl.(2)G.** period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	30 **9**	3	Green conical structure, white post; 13.	
5689 *E 0392.3*	-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 *E 0392.33*	-Dique de Arigo.	41° 06.5´ N 1° 15.2´ E	**Q.(3)W.** period 10s	16 **5**	3	E. CARDINAL BYB, post, topmark; 3.	
5690.5 *E 0392.37*	-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 *E 0392.4*	-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.	
5691.5 *E 0393.7*	**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.	**AIS** (MMSI No 992241393).
5691.6 *E 0393.8*	Cabo Gros, breakwater, head.	41° 08.0´ N 1° 24.1´ 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	33 **10**	5	Green post; 16.	
5691.7 *E 0393.85*	-Elbow.	41° 08.2´ N 1° 24.3´ E	**Q.(3)W.** period 10s	30 **9**	3	E. CARDINAL BYB, beacon, topmark; 10.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
	SAN SALVADOR:						
5692 *E 0394*	-W. jetty, head.	41° 10.7´ N 1° 31.0´ E	**Fl.(2)G.** period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	23 **7**	5	Green post; 7.	
5696 *E 0394.2*	-Mole, W. elbow.	41° 10.6´ N 1° 31.5´ E	**Q.(6)+L.Fl.W.** period 15s	30 **9**	3	S. CARDINAL YB, tower, topmark; 13.	
5700 *E 0394.4*	-Mole, E. elbow.	41° 10.6´ N 1° 31.6´ E	**V.Q.(6)+L.Fl.W.** period 10s	30 **9**	3	S. CARDINAL YB, post, topmark; 13.	
5704 *E 0394.6*	-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 *E 0394.8*	Puerto Segur de Calafell.	41° 11.0´ N 1° 36.5´ 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	STARBOARD (A) G, tower, topmark; 13.	
5706 *E 0395*	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 *E 0396*	**Villanueva y Geltru.**	41° 13.0´ N 1° 44.2´ 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**	Tower, aluminum cupola, white dwelling; 69.	Visible 265°-070°.
5712 *E 0396.2*	-Dique de levante, head.	41° 12.4´ N 1° 43.8´ E	**Fl.(2)G.** period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	59 **18**	5	Green cylindrical tower, white base; 36.	
5716 *E 0396.3*	-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 cylindrical column; 10.	
5718 *E 0396.12*	-Nuevo contradique.	41° 12.5´ 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 *E 0396.14*	-Dique de poniente, head.	41° 12.6´ N 1° 43.8´ 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	16 **5**	1	Red post; 13.	
5728 *E 0396.52*	-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 pyramidal tower; 10.	
5732 *E 0396.5*	-Espigou Transversal, head.	41° 12.7´ N 1° 44.0´ E	**Fl.(2+1)R.** period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 3s fl. 0.5s, ec. 9s	29 **9**	1	Red truncated pyramidal tower, green band; 10.	
5736 *E 0396.6*	Puerto de Vallcarca.	41° 14.2´ N 1° 52.0´ E	**Fl.(4)G.** period 13s	33 **10**	4	Green truncated pyramidal tower, white base; 13.	
5740 *E 0396.62*	Garraf, E. mole, head.	41° 14.9´ N 1° 54.0´ E	**Fl.(3)G.** period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	22 **7**	5	Green truncated pyramidal tower; 10.	
5744 *E 0396.64*	-W. mole, head.	41° 15.0´ N 1° 54.1´ E	**Fl.(3)R.** period 9s	13 **4**	3	Red truncated pyramidal tower; 10.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SPAIN-MEDITERRANEAN SEA				
5745 *E 0396.8*	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 truncated conical tower.	
5746 *E 0396.85*	-Contradike, head.	41° 15.4′ N 1° 55.3′ E	**Fl.(2)R.** period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	16 **5**	3	Red truncated conical tower; 10.	
5747 *E 0396.9*	-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, topmark; 10.	
5748 *E 0397*	Muntados AVIATION LIGHT.	41° 18.3′ N 2° 04.8′ E	**Fl.(2)W.** period 4s	56 **17**			Occasional.
5750	*Barcelona Approach Buoy.*	41° 16.9′ N 2° 10.9′ E	**Mo.(A)W.** period 10s		7	SAFE WATER RW, pillar; 16.	
	RACON		**B(– • • •)**		8		(3 & 10cm).
5752 *E 0398*	**Rio Llobregat.**	41° 19.5′ N 2° 09.1′ E	**Fl.W.** period 5s fl. 1s, ec. 4s	105 **32**	**23**	Tower octagonal tower, white circular building; 102.	Visible 240°-030°.
	BARCELONA:						
5760 *E 0400*	**-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**	Cupola, white and red building; 43.	Visible 240°30′-066°36′.
5761 *E 0401.55*	-Entrance Channel, E. breakwater, head.	41° 19.0′ N 2° 10.4′ E	**Fl.G.** period 5s fl. 0.5s, ec. 4.5s	52 **16**	10	White cylindrical tower, green bands; 43.	**AIS** (MMSI No 002242166).
5762 *E 0401.58*	-S. breakwater, elbow.	41° 18.8′ N 2° 10.0′ E	**Fl.R.** period 5s	46 **14**	7	Red cylindrical tower, 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 cylindrical structure, white base; 13.	
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.	
5765 *E 0401.65*	-Muelle del Prat, NE. corner.	41° 18.9′ N 2° 09.3′ E	**Fl.(2)G.** period 7s	13 **4**	3	White and green column; 10.	
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 column, white pyramidal base.	
5774 *E 0405*	-Nuevo Contradique, head.	41° 20.5′ N 2° 10.0′ E	**Fl.R.** period 5s fl. 0.5s, ec. 4.5s	30 **9**	3	Red cylindrical tower, white 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 column, concrete base; 10.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SPAIN-MEDITERRANEAN SEA				
5784 *E 0407.62*	-Muelle Sur, N. corner.	41° 21.4´ N 2° 10.4´ E	**Fl.(2)R.** period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	20 **6**	3	Red column, pyramidal 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 column, 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	52 **16**	10	White cylindrical tower, green spiral bands; 43.	**AIS** (MMSI No 992242165).
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 lantern; 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, pyramidal concrete base; 10.	
5793 *E 0418.62*	-Muelle de Cataluna, N. corner.	41° 22.3´ N 2° 11.1´ E	**Fl.G.** period 5s fl. 0.5s, ec. 4.5s	20 **6**	3	Green column, pyramidal concrete base; 10.	
5793.1 *E 0418.6*	--S. corner.	41° 22.2´ N 2° 11.1´ 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	20 **6**	3	Green column, pyramidal concrete base; 10.	
5794 *E 0418.5*	-Muelle Occidental.	41° 22.1´ N 2° 11.1´ E	**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 column, red stripe, pyramidal 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 column; 10.	
5796 *E 0434.45*	--W. head.	41° 22.4´ N 2° 11.2´ E	**Fl.(2+1)G.** period 14.5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s fl. 0.5s, ec. 9s	16 **5**	2	Green and red column.	
5800 *E 0434.71*	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 cylindrical column.	
5802 *E 0434.72*	-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 cylindrical column.	
5804 *E 0434.73*	-NE.	41° 23.2´ N 2° 12.3´ E	**Q.(3)W.** period 10s	20 **6**	5	E. CARDINAL BYB, beacon, topmark.	
5864 *E 0437*	-San Adrian de Besos, pier.	41° 26.4´ N 2° 14.9´ 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	SPECIAL Y, post, "X" topmark; 13.	
5870 *E 0439.3*	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	Green cylindrical tower; 23.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SPAIN-MEDITERRANEAN SEA				
5872 *E 0439.35*	-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 cylinderal tower; 10.	
5874 *E 0439*	Masnou.	41° 28.5′ N 2° 18.8′ E	**Fl.(3)G.** period 10s	3 **1**	2	Green rectangular structure; 3.	
5874.5 *E 0439.2*	-Darsena, E. head.	41° 28.6′ N 2° 18.8′ E	**Fl.(3)R.** period 10s	3 **1**	2	Red rectangular structure; 3.	
5875 *E 0439.5*	Premia de mar.	41° 29.3′ N 2° 21.9′ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	20 **6**	5	Green post, green building; 10.	Fl.R. 3s 3m 3M marks opposite breakwater.
5875.4 *E 0439.8*	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 truncated pyramidal tower.	
5876 *E 0440*	El Balis, yacht basin.	41° 33.4′ N 2° 30.4′ 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	13 **4**	2	Green cylindrical tower; 7.	
5880 *E 0446*	-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 pyramidal tower, green band; 10.	
5884 *E 0446.5*	-Dique de Portinol, head.	41° 34.5′ N 2° 33.5′ E	**Fl.(2)G.** period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	30 **9**	5	Green four-sided tower, white house; 16.	
5888 *E 0448*	**Calella.**	41° 36.5′ 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. 7.1s fl. 0.3s, ec. 1.4s fl. 0.3s, ec. 7.2s	164 **50**	**18**	White cylindrical tower, white building; 33.	Aeromarine light.
5891 *E 0452*	Puerto de Blanes, Dique de Abrigo, head.	41° 40.4′ N 2° 47.8′ E	**Fl.G.** period 3s	23 **7**	5	White and green cylindrical column, white triangular daymark point up; 10.	
5892 *E 0452.2*	Blanes, breakwater, head.	41° 40.3′ N 2° 47.8′ E	**Fl.(2)G.**		1	Green conical structure, white post; 10.	
5893 *E 0452.08*	-Contradique, head.	41° 40.3′ N 2° 47.8′ E	**Fl.R.** period 3s fl. 1s, ec. 2s	23 **7**	3	Red and white post, white four-sided base; 13.	
5894 *E 0452.1*	-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	White four-sided base; 13.	
5895 *E 0452.7*	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 cylindrical column, green base; 10.	
5896 *E 0453*	**Cabo Tossa.**	41° 43.1′ 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 four-sided tower, white dwelling; 36.	Visible 229°42′-064°12′.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SPAIN-MEDITERRANEAN SEA				
	SAN FELIU DE GUIXOLS:						
5900 *E 0456*	-Mole, head.	41° 46.6´ N 3° 02.0´ E	**Fl.(3)G.** period 9s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 3s	33 **10**	5	Green and white four-sided tower; 20.	Iso.W. 3s 4M and Oc.W. 3s 4M in line 343°, marks anchorage.
5912 *E 0459*	Playa de Aro.	41° 48.2´ N 3° 04.0´ 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 *E 0462*	**-Punta del Molino.**	41° 50.5´ N 3° 07.7´ 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 cylindrical tower, gray cupola; 26.	
5920 *E 0460*	-Bajo Pereira (Llosa) on Palanos Reef.	41° 50.2´ N 3° 07.3´ 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 *E 0464*	-Dique de Abrigo, head.	41° 50.5´ N 3° 07.2´ E	**Fl.G.** period 3s fl. 1s, ec. 2s	30 **9**	5	Green structure spherical; 20.	
5926 *E 0466.6*	-Darsena Pesquera, S. jetty, head.	41° 50.6´ N 3° 07.5´ E	**Fl.(2)G.** period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	20 **6**	3	White conical column, white four-sided base; 13.	
5927 *E 0466.4*	--N. jetty, head.	41° 50.6´ N 3° 07.5´ E	**Fl.(2)R.** period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	20 **6**	3	Red cylindrical structure, white four-sided base; 13.	
5928 *E 0466.7*	-Puerto Deportivo, breakweater.	41° 50.6´ N 3° 08.1´ 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 cylindrical tower; 26.	
5929 *E 0466.75*	--N. breakwater.	41° 50.7´ N 3° 08.1´ 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 post; 7.	
5930 *E 0466.8*	--Inner breakwater.	41° 50.7´ N 3° 08.2´ E	**Fl.G.** period 5s fl. 0.5s, ec. 4.5s	7 **2**	3	Green post; 3.	
5932 *E 0467*	-Hormiga Grande, N. coast.	41° 51.8´ 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 cylindrical tower, white building; 20.	
5936 *E 0468*	-Llanfranch, shelter mole, head.	41° 53.6´ 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	Green and white truncated conical; 7.	
5940 *E 0470*	**Cabo de San Sebastian.**	41° 53.8´ N 3° 12.1´ E	**Fl.W.** period 5s fl. 0.3s, ec. 4.7s	548 **167**	**32**	White cylindrical tower, white dwelling, red roof; 39.	Visible 197°-165°. **DGPS Station.**

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SPAIN-MEDITERRANEAN SEA				
5942 *E 0471.2*	Punta del Mut.	41° 56.4´ N 3° 13.0´ E	**Fl.(2)G.** period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	13 **4**	5	Green post, white base; 10.	
5944 *E 0472*	Islas Medas, summit of Meda Grande.	42° 02.9´ N 3° 13.3´ 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, white building; 36.	
5948 *E 0474*	Estartit, mole, head.	42° 03.0´ N 3° 12.4´ E	**Fl.(2)G.** period 13s fl. 0.5s, ec. 3s fl. 0.5s, ec. 9s	13 **4**	3	Green lantern; 13.	
5952 *E 0474.4*	-Contradique, head.	42° 07.2´ N 3° 08.7´ 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° 08.7´ 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 cylindrical structure, white column; 10.	Visible 097°-008°.
5956.5 *E 0475.42*	-Espigon de Defensa, head.	42° 07.0´ N 3° 08.6´ E	**Fl.(3)G.** period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	20 **6**	6	Green conical structure, cement base; 10.	
5960 *E 0475.5*	Ampuriabrava, Dique de Poniente.	42° 14.7´ N 3° 08.2´ 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 and white truncated conical column; 13.	
5960.5 *E 0475.52*	-W. dike, head.	42° 14.7´ N 3° 08.1´ 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 and white truncated pyramidal tower; 13.	
5961 *E 0475.53*	-Transverse dike, head.	42° 14.8´ N 3° 08.1´ 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	White and red truncated conical column; 3.	
5961.5 *E 0475.54*	-Parallel dike.	42° 14.8´ N 3° 08.1´ 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 and white truncated pyramidal tower; 3.	
	SANTA MARGARITA:						
5964 *E 0475.6*	-Dique de Abrigo.	42° 15.4´ N 3° 09.0´ E	**Q.(2)G.** period 4s	26 **8**	5	White and green cylindrical column; 20.	
5968 *E 0475.7*	-Contradique.	42° 15.5´ N 3° 09.0´ E	**Q.(2)R.** period 4s	20 **6**	3	White and red cylindrical column; 10.	
	BAHIA DE ROSAS:						
5972 *E 0476*	-Punta de la Batteria.	42° 14.8´ N 3° 11.0´ 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 cylindrical tower, white dwelling; 36.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SPAIN-MEDITERRANEAN SEA				
5976 *E 0479*	-Muelle de Abrigo, head.	42° 15.1´ N 3° 10.6´ E	**Fl.G.** period 4s fl. 1s, ec. 3s	26 **8**	5	Green cylindrical structure, white building; 13.	
5980 *E 0480*	-Muelle comercial, head.	42° 15.2´ 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, red building; 13.	Visible 170°-125°.
5984 *E 0484*	Punta de Cala Nans, Cadaques, entrance, S. side.	42° 16.2´ N 3° 17.2´ 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	Cylindrical tower, white dwelling; 23.	
5988 *E 0486*	**Cabo de Creus.**	42° 19.1´ 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 cylindrical tower, white dwelling, red roof; 36.	
5992 *E 0488*	Puerto de la Selva Punta Sernella.	42° 21.1´ N 3° 11.2´ E	**Fl.W.** period 5s fl. 1s, ec. 4s	72 **22**	13	White four-sided tower, dwelling.	
5996 *E 0489*	-Punta Trench, mole, head.	42° 20.4´ N 3° 12.0´ 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 and white column, dwelling; 16.	
6000 *E 0490*	Embarcadero de Culera, Dique de Levante, head.	42° 24.3´ N 3° 09.5´ E	**Fl.(2)R.** period 6s fl. 0.8s, ec. 0.8s fl. 0.8s, ec. 3.6s	23 **7**	5	Red and white four-sided post; 10.	
6004 *E 0490.4*	-Contradique, head.	42° 24.3´ N 3° 09.5´ E	**Fl.(2)G.** period 6s fl. 0.8s, ec. 0.8s fl. 0.8s, ec. 3.6s	16 **5**	3	Green four-sided column, 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 *E 0492*	**Cap Cerbere.**	42° 26.4′ N 3° 10.5′ E	**Fl.W.** period 4s fl. 0.1s, ec. 3.9s	180 **55**	**15**	Gray pyramidal tower, red top; 33.	
6009 *E 0492.2*	-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. 210°-237°, R.-210°.
6012 *E 0495*	Banyuls, Ile Petite, NE. jetty.	42° 29.0′ N 3° 07.9′ E	**Q.W.R.**	30 **9**	W. 10 R. 7	White column, red top; 23.	R. 283°-194° W. -231°, R.-246°.
6020 *E 0496*	**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**	Gray pyramidal tower, red top; 88.	Visible 146°-056°.
	PORT VENDRES:						
6024 *E 0498*	-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 *E 0498.5*	-Fort Fanal beacon, about 50 meters ESE of fort.	42° 31.3′ N 3° 06.9′ E	**Q.G.**	29 **9**	7	White tower, dark green top; 30.	
6032 *E 0506*	-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 *E 0508*	-Pointe des Pilotes.	42° 31.2′ N 3° 06.7′ E	**Fl.G.** period 4s fl. 1s, ec. 3s	13 **4**	7	White column, dark green top; 10.	
6040 *E 0509*	-Pointe de la Presquile.	42° 31.1′ N 3° 06.6′ E	**Fl.R.** period 4s fl. 1s, ec. 3s	10 **3**	6	Red metal structure; 7.	
6044 *E 0504*	-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 *E 0497*	-Entrance Range, front.	42° 31.1′ N 3° 06.9′ E	**Q.W.**	39 **12**	10	Red structure, white hut, gray base; 20.	
6052 *E 0497.1*	--Rear, about 200 meters 198°30′ from front.	42° 31.0′ N 3° 06.8′ E	**Q.W.**	75 **23**	**18**	White tower, red top, red and white checkered stripe; 36.	Intensified 196°-199°. Synchronized with front.
6056 *E 0512*	Collioure, jetty, head.	42° 31.7′ N 3° 05.3′ E	**Iso.G.** period 4s	46 **14**	8	Dark green structure, cylindrical hut; 23.	Visible 135°-278°.
6060 *E 0512.5*	-Argeles-sur-Mer, jetty, NE. head.	42° 32.6′ N 3° 03.2′ E	**Fl.G.** period 4s fl. 1s, ec. 3s	16 **5**	5	Green metal column; 7.	
6064 *E 0512.6*	--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, red top, gallery; 16.	
6068 *E 0513*	Saint Cyprien, S. jetty, head.	42° 37.3′ 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 metal column, red gallery; 23.	North jetty pierhead marked by F.W. lights.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			FRANCE-MEDITERRANEAN SEA				
6072 *E 0514.5*	**Canet-Plage.**	42° 42.4′ N 3° 02.2′ 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 *E 0515*	-S. jetty, head.	42° 42.2′ N 3° 02.5′ 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 *E 0515.2*	-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 *E 0516*	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 *E 0516.1*	-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 *E 0514*	**Perpignan-Riversaltes,** AVIATION LIGHT.	42° 43.9′ N 2° 52.5′ E	**Mo.(X)W.** period 8.5s	190 **58**	**33**	Pylon; 46.	
6084 *E 0517*	Grau S. Ange, S. jetty, head.	42° 47.9′ N 3° 02.4′ E	**Fl.(2)R.** period 10s fl. 0.1s, ec. 2.4s fl. 0.1s, ec. 7.4s	33 **10**	10	White column, red top; 23.	Fl.G. 2.5s marks N. jetty.
6088 *E 0518*	**Cap Leucate.**	42° 54.6′ 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 *E 0517.6*	Leucate, E. jetty.	42° 52.4′ N 3° 03.2′ E	**Fl.R.** period 4s	26 **8**	6	White column, red top; 20.	
6096 *E 0517.7*	-W. jetty, head.	42° 52.5′ N 3° 03.1′ E	**Fl.G.** period 4s	26 **8**	6	White column, dark green top; 20.	
6097 *E 0517.8*	-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 *E 0517.9*	--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 *E 0522*	-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 *E 0522.1*	--Rear, 3500 meters 292°24′ from front.	43° 01.5′ N 3° 01.8′ E	**Q.W.**	174 **53**	**17**	Tower.	
6104 *E 0524*	-N. jetty, head.	43° 00.8′ N 3° 04.2′ E	**Iso.G.** period 4s	49 **15**	6	White truncated tower, green top; 39.	
	CANAL DU GRAZEL:						
6106 *E 0525*	-S. jetty, head.	43° 05.7′ N 3° 06.7′ E	**Oc.R.** period 4s lt. 3s, ec. 1s	20 **6**	4	White post, red top; 13.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			FRANCE-MEDITERRANEAN SEA				
6106.5 *E 0525.2*	-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 metal post, green top; 13.	
6107 *E 0526*	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	Gray structure, red top; 26.	
	PORT L'ORB:						
6108 *E 0529*	-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	Aluminum structure, red top; 20.	
6112 *E 0528*	-NE. jetty, head.	43° 14.7′ N 3° 18.0′ E	**Fl.G.** period 4s fl. 1s, ec. 3s	30 **9**	6	White metal column, green top, square gallery; 16.	
6113 *E 0527.2*	**Bassin des Exals.**	43° 10.4′ N 3° 10.8′ 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 *E 0527.5*	Port of Narbonne-Plage, N. jetty.	43° 10.4′ N 3° 11.0′ E	**Fl.G.** period 4s fl. 1s, ec. 3s	23 **7**	1	Green metal post; 13.	
6115 *E 0527.52*	-S. jetty.	43° 10.1′ N 3° 11.2′ E	**Fl.R.** period 4s fl. 1s, ec. 3s	23 **7**	4	Red metal tower; 13.	
6120 *E 0526.2*	-N. jetty, head.	43° 06.7′ N 3° 07.9′ E	**Fl.G.** period 4s fl. 1s, ec. 3s	36 **11**	6	White pylon, green top; 30.	
6122 *E 0527.7*	Embouchure de l'Aude, E. dike, head.	43° 12.6′ N 3° 14.5′ E	**Fl.(2)G.** period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	33 **10**	8	Round aluminum structure, green top; 23.	
6122.5 *E 0527.8*	-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 *E 0527.65*	Mimosa.	43° 13.2′ N 3° 15.6′ E	**Q.(3)W.** period 10s		4	E. CARDINAL BYB, beacon, topmark.	
	HERAULT:						
6124 *E 0535*	-E. jetty, head.	43° 16.8′ N 3° 26.6′ E	**Oc.G.** period 4s lt. 3s, ec. 1s	46 **14**	7	White truncated tower, green top; 36.	F.R. lights are shown from 2 radio masts about 3 km. ENE. **Horn:** 1 bl. ev. 10s (bl. 5s, si. 5s).
6128 *E 0534*	-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 truncated tower, red top; 36.	
6132 *E 0535.4*	-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 truncated tower, green top; 33.	
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 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	**Fl.(3)G.** period 12s	26 **8**	6	White column, dark green top; 16.	Synchronized with 6144.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			FRANCE-MEDITERRANEAN SEA				
6144 *E 0536.2*	-W. jetty.	43° 16.1´ N 3° 30.3´ E	**Fl.(3)R.** period 12s	26 **8**	6	White column, red top; 16.	Synchronized with 6140.
	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	Mast, green top; 3.	Synchronized with 6152.
6152 *E 0539*	-SW. jetty, head.	43° 17.4´ 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.	Synchronized with 6148.
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; 20.	
6162 *E 0545*	Port des Quilles.	43° 23.5´ N 3° 39.8´ E	**Fl.(3)G.** period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	26 **8**	5	Gray metal posts, rectangular structure, 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. 0.5s, ec. 4.5s	305 **93**	**27**	White octagonal tower, dark green lantern; 75.	Visible 215°-105°.
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° 23.8´ N 3° 42.1´ 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	112 **34**	7	White truncated tower, red lantern; 98.	
6184 *E 0552*	--S. jetty.	43° 23.7´ N 3° 42.1´ E	**Fl.R.** period 4s	33 **10**	7	Three-sided hut, red and white square daymark; 23.	Synchronized with 6188.
6188 *E 0551*	-Epi Dellon, W. jetty, head.	43° 23.6´ N 3° 42.1´ E	**Fl.G.** period 4s	33 **10**	6	Tower, green top; 23.	Synchronized with 6184.
6192 *E 0550*	--E. breakwater, center.	43° 23.8´ N 3° 42.5´ E	**Fl.(3)R.** period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	49 **15**	3	White octagonal tower, red top, red base, 26.	Visible 063°-253°.
6196 *E 0547*	-E. breakwater, center.	43° 23.8´ N 3° 43.1´ E	**Fl.(2)R.** period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	69 **21**	3	White truncated tower, red top; 69.	Visible 080°-268°.
6200 *E 0547.5*	--E. extremity.	43° 23.9´ N 3° 43.9´ E	**Iso.R.** period 4s	66 **20**	11	White sails; 49.	
6204 *E 0547.7*	-Digue E.	43° 24.1´ N 3° 43.6´ E	**Iso.G.** period 4s	33 **10**		White pylon, green top; 23.	
6212 *E 0548*	--W. jetty, head.	43° 23.9´ N 3° 42.8´ E	**Fl.(3)G.** period 12s	10 **3**	3	White tower, green top; 10.	
6214 *E 0547.77*	-Dique Sud, W. breakwater.	43° 24.4´ N 3° 43.6´ E	**Fl.G.** period 2.5s				Not visible from seaward.
6214.1 *E 0557.6*	--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°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			FRANCE-MEDITERRANEAN SEA				
6214.2 *E 0557.4*	--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**	6	Concrete column; 10.	
6216 *E 0557.2*	Frontignan, E. dike, head.	43° 25.1´ 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 *E 0558*	--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 *E 0558.2*	--E. dike, head.	43° 25.8´ N 3° 46.7´ E	**Fl.G.** period 4s fl. 1s, ec. 3s	30 **9**	8	Metal column, green top; 23.	
6224 *E 0556*	--W. mole, head.	43° 24.0´ N 3° 42.1´ E	**Q.R.**	23 **7**	6	White column, red top; 16.	Visible within Frontignan Jetty.
6228 *E 0557*	--E. mole, head.	43° 24.0´ N 3° 42.2´ E	**Q.G.**	20 **6**	8	White column, green top; 13.	Visible within Frontignan Jetty.
6232 *E 0555*	--Mole Masselin.	43° 23.9´ N 3° 42.2´ 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 *E 0560*	-Canal de Sete, N. entrance, E. side.	43° 24.9´ N 3° 41.4´ E	**Q.G.**	26 **8**	3	White column, green top; 23.	Synchronized with 6240.
6240 *E 0561*	---W. side.	43° 24.9´ N 3° 41.3´ E	**Q.R.**	26 **8**	3	White column, red top; 23.	Synchronized with 6236.
6241 *E 0561.5*	-Pointe du Barrou.	43° 25.5´ N 3° 40.4´ E	**Q.W.**	20 **6**		N. CARDINAL BY, tower, topmark; 26.	
6244 *E 0562*	-Rocher de Roquerols.	43° 25.8´ N 3° 40.3´ E	**Q.(6)+L.Fl.W.** period 15s	23 **7**	4	S. CARDINAL YB, tower, topmark; 20.	
	SETE:						
6248 *E 0566*	-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 *E 0579*	-Montpellier Frejorge, AVIATION LIGHT.	43° 34.6´ N 3° 57.7´ E	**Mo.(Y)W.** period 12.5s	52 **16**		Control tower.	Occasional.
6264 *E 0577*	-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**	6	Metal mast; 13.	Synchronized with 6268.
6268 *E 0576*	--W. jetty.	43° 31.6´ N 3° 56.1´ E	**Fl.(2)R.** period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	43 **13**	6	Metal mast; 26.	Synchronized with 6264.
6269 *E 0577.4*	--Le Lez.	43° 31.7´ N 3° 56.1´ E	**Fl.R.** period 2.5s fl. 0.5s, ec. 2s	20 **6**	4	White tower, red top; 3.	Visible 045°-315°. Synchronized with 6270.
6270 *E 0577.5*	---Breakwater, head.	43° 31.6´ N 3° 56.1´ E	**Fl.G.** period 2.5s fl. 0.5s, ec. 2s	26 **8**	5	White tower, green top; 20.	Synchronized with 6269.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			FRANCE-MEDITERRANEAN SEA				
6272 *E 0578*	-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 *E 0580*	-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	Pediment, red lantern; 39.	
6280 *E 0578.2*	--Dique Est.	43° 32.5´ N 3° 58.6´ E	**Fl.G.** period 4s fl. 1s, ec. 3s	26 **8**	5	White tower, green top; 20.	
6284 *E 0582*	--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 column, green top; 30.	
	-Port Camargue (Espiguette):						
6288 *E 0582.2*	--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 column, red top; 30.	
6292 *E 0583*	--Dique d'arret, (spur of S. jetty), head.	43° 31.2´ N 4° 07.3´ E	**V.Q.(9)W.** period 10s	30 **9**	9	W. CARDINAL YBY, beacon, topmark; 23.	
6296 *E 0583.2*	--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 *E 0583.4*	--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; 20.	
6304 *E 0584.2*	--Entrance, W. head.	43° 30.6´ N 4° 06.9´ E	**Oc.G.** period 4s lt. 3s, ec. 1s	23 **7**	4	White structure, green top; 10.	Visible 059°-345°.
6308 *E 0584.4*	--E. head.	43° 30.6´ N 4° 07.0´ E	**Oc.R.** period 4s lt. 3s, ec. 1s	23 **7**	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	13 **4**	8	W. CARDINAL YBY, pillar, topmark.	**Whistle.** **Radar reflector.**
6320 *E 0586*	**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, black top; 89.	
6330 *E 0590*	Port Gardian W. levee, head.	43° 26.8´ N 4° 25.3´ E	**Fl.R.** period 4s fl. 1s, ec. 3s	29 **9**	7	White structure, red top; 16.	Visible 117°-075°.
6331 *E 0590.2*	-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 structure; 13.	Visible 140°-326°.
6340	*Approach Buoy,* Saintes Maries-de-la-Mer.	43° 23.0´ N 4° 26.0´ E	**Iso.W.** period 4s			SAFE WATER RW, pillar, topmark.	**Radar reflector.**
	GOLFE DES SAINTES-MARIES:						
6344 *E 0594*	**-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**	**18**	White truncated tower, dwelling, black cupola; 89.	
6348 *E 0592*	-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, house, white lantern; 59.	G. 300°-019°, W.-065°, R.-085°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			FRANCE-MEDITERRANEAN SEA				
6352 *E 0597*	*-Beauduc.*	43° 20.7′ N 4° 33.7′ E	**V.Q.(9)W.** period 10s	23 **7**	4	W. CARDINAL YBY, beacon, topmark.	**Radar reflector.**
6356 *E 0600*	**Etang de Faraman.**	43° 21.3′ N 4° 41.2′ E	**Fl.(2)W.** period 10s fl. 0.1s, ec. 2.4s fl. 0.1s, ec. 7.4s	135 **41**	**23**	White truncated tower, black bands; 141.	
	GOLFE DE FOS:						
6393 *E 0600.5*	-Roustan East.	43° 19.1′ N 4° 52.0′ E	**Q.(3)W.** period 10s	23 **7**		E. CARDINAL BYB, beacon, topmark.	
6394 *E 0601.05*	-Balancelle.	43° 20.4′ N 4° 55.5′ E	**V.Q.(3)W.** period 5s	13 **4**	4	E. CARDINAL BYB, beacon, topmark.	
6395	-Annibal Est.	43° 21.8′ N 4° 55.5′ E	**Q.(3)W.** period 10s	23 **7**	3	E. CARDINAL BYB, beacon, topmark; 26.	
6396 *E 0604*	-Port de Fos, Entrance Range, front.	43° 24.4′ N 4° 52.1′ E	**Q.W.**	36 **11**	11	Gray pylon, two red square daymarks; 33.	Intensified 285°30′-288°30′.
	----Auxiliary light.		**V.Q.G.**		4		Visible 266°-281°. Covers tank wharf.
6400 *E 0604.1*	---Rear, 500 meters 287° from front.	43° 24.5′ N 4° 51.7′ E	**Q.W.**	95 **29**	11	Gray pylon, two red square daymarks; 92.	Intensified 285°30′-288°30′. Synchronized with front.
6401 *E 0603.7*	--Mole Graveleau Range, front.	43° 24.1′ N 4° 51.5′ E	**Q.R.**	49 **15**	11	White framework pylon, two orange horizontal square daymarks.	Visible 270°-280°.
6402 *E 0603.71*	---Rear, 340 meters 275° from front.	43° 24.1′ N 4° 51.3′ E	**Q.R.**	72 **22**		White framework pylon, blue top, orange square daymark.	Visible 270°-280°.
6404 *E 0603*	-Port-St.-Louis-du-Rhone.	43° 23.1′ N 4° 48.3′ E	**Q.W.**	49 **15**	10	Gray square tower, gray lantern; 69.	Intensified 262°-265°.
6408 *E 0602*	-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 *E 0605*	-Post 1.	43° 24.9′ N 4° 53.0′ E	**Fl.G.** period 4s fl. 1s, ec. 3s	20 **6**	5	Dark green pylon; 16.	
6452 *E 0605.2*	-Basin No 1, 340°.	43° 26.0′ N 4° 52.3′ E	**Dir.W.R.G.** period 4s fl. 3s, ec. 1s	82 **25**	W. **15** R. 12 G. 12	Column; 72.	Oc.G. 333°-339°, Oc.W.-341°, Oc.R.-344°.
6453 *E 0605.4*	--LNG pier, head.	43° 26.9′ N 4° 51.3′ E	**Iso.R.** period 4s	33 **10**	7		
6454 *E 0604.5*	-Basin No 4, NE. corner.	43° 25.0′ N 4° 53.8′ E	**Q.(6)+L.Fl.W.** period 15s	26 **8**	3	S. CARDINAL YB, beacon, topmark.	
6456 *E 0606.8*	**-Pointe de S. Gervais.**	43° 25.7′ N 4° 56.4′ E	**I.Q.(7)W.R.G.** period 12s	148 **45**	W. **18** R. 14 G. 14	Gray tower, green top; 154.	G. 323°-340°, W.-348°, R.-007°.
6460 *E 0606.9*	--Yacht Harbor, S. breakwater, head.	43° 25.6′ N 4° 56.4′ E	**Fl.G.** period 4s fl. 1s, ec. 3s	22 **7**	5	White pylon, green top; 16.	
6464 *E 0606.2*	**-Istres,** Le Tube AVIATION LIGHT.	43° 31.0′ N 4° 56.8′ E	**Mo.(F)W.** period 4s	193 **59**	**23**	Water tower; 112.	
6465 *E 0606.95*	-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 *E 0606.98*	-Tasques.	43° 23.4′ N 4° 58.8′ E	**Iso.R.** period 4s	23 **7**	3	PORT (A) R, beacon, topmark.	
6468 *E 0607*	-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°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			FRANCE-MEDITERRANEAN SEA				
6472 *E 0607.2*	-Saint Antoine.	43° 23.6´ N 4° 59.1´ E	**V.Q.(2)G.**	26 **8**	10	White tower, dark green top; 20.	Synchronized with 6480.
6480 *E 0608*	-N. jetty, head.	43° 23.8´ N 4° 59.1´ E	**V.Q.(2)R.**	46 **14**	6	White tower, red top; 30.	Synchronized with 6472.
6484 *E 0609.5*	-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 *E 0609.6*	-Fishing Port, breakwater, head.	43° 23.9´ 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 *E 0609.8*	-Marina, E. jetty, head.	43° 24.1´ N 4° 59.1´ E	**Iso.G.** period 4s	20 **6**	6	Metal post; 13.	
6488 *E 0609*	-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 *E 0609.1*	--Rear, about 167 meters 036°42′ 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°. Synchronized with front.
6496 *E 0609.4*	-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 rectangular daymark, yellow stripe; 36.	Intensified 020°-040°.
6500 *E 0609.41*	--Rear, about 184 meters 029°48′ 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 rectangular daymark, yellow stripe; 36.	Intensified 019°-041°. Synchronized with front.
	- Channel from Port de Bouc to Martigues:						
6504 *E 0610*	--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 *E 0610.2*	---S. side.	43° 24.2´ N 5° 00.0´ E	**Q.G.**	16 **5**	4	Gray dolphin, white tank, dark green lantern; 13.	
6509 *E 0610.3*	--La Gafette, N. side.	43° 24.2´ N 5° 00.6´ E	**Fl.R.** period 4s fl. 1s, ec. 3s	30 **9**	7	Red post; 30.	
6510 *E 0610.4*	---S. side.	43° 24.1´ N 5° 00.6´ E	**Fl.G.** period 4s fl. 1s, ec. 3s	16 **5**	4	Dolphin, white tank, dark green lantern; 13.	
6512 *E 0610.5*	--Turning basin, SW. corner.	43° 24.1´ N 5° 01.2´ E	**Q.W.**	16 **5**	6	N. CARDINAL BY, water tower, topmark; 13.	
6516 *E 0610.6*	---SE. corner.	43° 24.1´ N 5° 01.5´ E	**Q.(9)W.** period 15s	16 **5**	6	W. CARDINAL YBY, water tower, topmark; 13.	Central and southern viaduct piles are illuminated.
6517.1 *E 0610.65*	--Labillon, N.	43° 24.1´ N 5° 02.3´ E	**Fl.R.** period 4s fl. 1s, ec. 3s		3	PORT (A) R, beacon, topmark.	
6517.2 *E 0610.68*	---E.	43° 24.1´ N 5° 02.4´ E	**Iso.G.** period 4s		2	STARBOARD (A) G, beacon, topmark.	
6518.1 *E 0610.7*	--Martigues, N. side.	43° 24.2´ N 5° 03.0´ E	**Q.R.**	26 **8**	3	White pylon, red top; 20.	Visible 198°-078°.
6518.2 *E 0610.8*	---S. side.	43° 24.2´ N 5° 03.0´ E	**Q.G.**	30 **9**	3	White pylon, green top; 23.	
6519 *E 0610.9*	-Port Petrolier.	43° 24.3´ N 5° 05.5´ E	**V.Q.W.**			N. CARDINAL BY, platform, topmark.	
6520 *E 0611*	-Port de la Mede, Trois Freres.	43° 24.3´ N 5° 07.1´ E	**Fl.G.** period 4s	66 **20**	5	White tower, dark green top; 7.	F.R. and F.G. lights along embankment.
6522 *E 0616.8*	-Les Heures Claires, breakwater, head.	43° 29.8´ N 5° 00.0´ E	**Iso.G.** period 4s		5		
6523 *E 0616.5*	-Saint Chamas, S. breakwater, head.	43° 32.6´ N 5° 01.9´ E	**Fl.G.** period 4s	10 **3**	2	Metal mast; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			FRANCE-MEDITERRANEAN SEA				
6524 *E 0615*	-Pointe de Berre, jetty, head.	43° 27.6′ N 5° 08.5′ 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 *E 0615.4*	-Port de Berre-l'Etange, W. dike.	43° 28.2′ N 5° 10.1′ E	**Fl.R.** period 4s	13 **4**	4	Hut; 7.	
6540 *E 0620*	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 *E 0622*	**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 *E 0624*	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 tower; 23.	
6548.5 *E 0623.5*	-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 tower.	
6549 *E 0624.7*	Carry-Le-Rouet, E. mole, head.	43° 19.7′ N 5° 09.2′ E	**V.Q.G.**	30 **9**	5	Green mast; 20.	
6550 *E 0624.8*	-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 tower, red top; 16.	
6551 *E 0624.9*	-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 *E 0625.3*	Ilot Eveline, E. of Cap Mejean.	43° 19.8′ N 5° 14.1′ E	**Q.(6)+L.Fl.W.** period 15s	92 **28**	10	S. CARDINAL YB, tower, topmark; 16.	
6556 *E 0625.6*	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°.
	MARSEILLE, NORTH ENTRANCE:						
6560 *E 0628*	-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.	
6564 *E 0630*	-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 *E 0631*	-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 *E 0630.01*	-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 tank, red top; 13.	
6569.2 *E 0630.02*	---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 *E 0630.04*	--Detached breakwater, W. end.	43° 21.4′ N 5° 19.0′ E	**Q.(9)W.** period 15s	16 **5**	3	W. CARDINAL YBY, structure, topmark; 7.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			FRANCE-MEDITERRANEAN SEA				
6570.2 *E 0630.06*	---E. end.	43° 21.4′ N 5° 19.1′ E	**Fl.(2)R.** period 6s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 3.5s	13 **4**	2	Red lantern; 7.	
6571 *E 0630.2*	-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 *E 0634*	**-Dique Exterieure,** 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.	Unintensified 187°-307°.
6580 *E 0635*	-Dique 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 *E 0635.4*	-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, dolphin; 16.	
6588 *E 0637*	-Passe Leon Gourret, E. side.	43° 20.7′ N 5° 19.7′ E	**Iso.R.** period 4s	23 **7**	4	White mast, red top; 13.	Synchronized with 6592.
6592 *E 0636*	--Jetty, head, SW. side.	43° 20.6′ N 5° 19.5′ E	**Iso.G.** period 4s	23 **7**	3	White mast, green top; 13.	Visible 125°-308°. Synchronized with 6588.
6596 *E 0637.6*	-Passe de Mourepiane, 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**	2	White column, red top; 20.	
6600 *E 0637.2*	--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, hut; 20.	Visible 103°-300°.
6604 *E 0642*	-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 *E 0643*	--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 *E 0646*	-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.	Synchronized with 6616.
6616 *E 0644*	--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°. Synchronized with 6612.
	MARSEILLE, SOUTH ENTRANCE:						
6620 *E 0654*	-Dique 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 *E 0656*	-Dique 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 *E 0660*	-Pointe de la Desirade (Le Pharo).	43° 17.7′ N 5° 21.2′ E	**Fl.G.** period 4s fl. 1s, ec. 3s	43 **13**	7	White tower, green lantern; 49.	Visible 003°-271°.
6632 *E 0657*	-Passe de la Joilette, Dique Sainte Marie, root.	43° 18.0′ 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**	6	Red metal tower; 23.	Visible 195°-060°30′. Synchronized with 6636.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			FRANCE-MEDITERRANEAN SEA				
6633 *E 0655*	*-Dique du Large, S.*	43° 18.3′ N 5° 21.6′ E	**Fl.R.** period 2.5s fl. 0.5s, ec. 2s			Buoyant beacon.	
6634 *E 0655.5*	*--N.*	43° 18.5′ N 5° 21.7′ E	**Fl.(2)R.** period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s			Buoyant beacon.	
6636 *E 0662*	-Dique 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**	6	Dark green tower; 23.	Visible 001°30′-299°. Unintensified 001°30′- 009° and 277°-299°. Synchronized with 6632.
6644 *E 0666*	-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 *E 0667*	-Tunnel, W.	43° 17.6′ N 5° 21.8′ E	**Fl.G.** period 4s fl. 1s, ec. 3s	16 **5**	3	White tank, dark green top; 13.	
6652 *E 0668*	--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	White tank, dark green top; 13.	
6656 *E 0674*	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 *E 0676*	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.	Visible 152°-054°.
6662 *E 0678.5*	*Basse Saint Esteve.*	43° 16.8′ N 5° 19.1′ E	**Q.(6)+L.Fl.W.** period 15s	10 **3**	4	S. CARDINAL YB, buoyant beacon, topmark.	
6664 *E 0678*	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 *E 0677*	Ile Ratonneau.	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.	Visible 002°-242° and 276°-279°.
6672 *E 0679*	Cap Caveaux, Ile Pomegues.	43° 15.6′ N 5° 17.4′ E	**Iso.W.** period 4s	92 **28**	7	White structure, black top; 7.	Visible 228°-144°.
6674 *E 0681*	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.	
6676 *E 0682*	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 *E 0682.5*	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 *E 0684*	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 *E 0683*	Les Goudes, W. jetty, head.	43° 13.0′ N 5° 20.7′ E	**Iso.G.** period 4s	26 **8**	2	White metal pyramidal support, green top; 16.	
6688 *E 0680*	**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.	Visible 284°-268°.
6692 *E 0685*	Ilot Les Empereurs.	43° 10.1′ N 5° 23.6′ E	**Q.(6)+L.Fl.W.R.** period 15s	59 **18**	7	White mast; 7.	R. 222°-236°, W. 097°, R.-112°.
6696 *E 0687*	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 truncated column, red top; 26.	Visible 248°-068°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			FRANCE-MEDITERRANEAN SEA				
6700 *E 0686*	-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.	F.R. marks head of breakwater in Port du Prado 1.2 miles NNE.
6704 *E 0690*	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 *E 0694*	Ciotat, Mole Berouard, entrance, W. side.	43° 10.3′ N 5° 36.7′ E	**Iso.G.** period 4s	49 **15**	11	White truncated tower, dark green top; 49.	Unintensified 134°30′-228°30′.
6712 *E 0693.3*	-Pier, head.	43° 10.2′ N 5° 36.9′ E	**Fl.(3)R.** period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	69 **21**	6	White support, red top; 59.	
6716 *E 0693*	-La Ciotat, jetty, head.	43° 10.3′ N 5° 36.9′ E	**Fl.R.** period 4s fl. 1s, ec. 3s	59 **18**	5	White support, red top; 49.	
6720 *E 0695*	-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 support, green top; 16.	
6724 *E 0697*	-Bassin de Capucins, entrance, E. side.	43° 10.7′ N 5° 36.8′ E	**Fl.(2)R.** period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	23 **7**	8	White tower, red top; 13.	
6732 *E 0698.2*	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 *E 0698*	-Elbow.	43° 10.7′ N 5° 41.1′ E	**Fl.(2)R.** period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	26 **8**	7	White structure, red top, gray base; 16.	
6740 *E 0698.4*	-Contra jetty, head.	43° 10.8′ N 5° 40.9′ E	**Q.R.**	10 **3**	6	Red support; 7.	
6742 *E 0699*	Les Beaumelles, E. jetty, head.	43° 10.0′ 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.	
6744 *E 0700*	Port Bandol.	43° 08.0′ N 5° 45.4′ 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**	6	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° 04.8′ 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.	Visible 297°-225°. Unintensified 225°-297°.
6764 *E 0704*	Sanary-sur-Mer, W. jetty, head.	43° 06.9′ N 5° 48.0′ E	**Fl.R.** period 4s fl. 1s, ec. 3s	29 **9**	10	White truncated tower, red top; 30.	Obscured on bearings N. of 69°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			FRANCE-MEDITERRANEAN SEA				
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 block, green top; 7.	
6768 *E 0706*	Port de la Couduriere, W. mole, head.	43° 05.7′ N 5° 48.6′ E	**Fl.(3)R.** period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	26 **8**	6	Red structure; 16.	
6772 *E 0708*	Le Brusq, NE. jetty, head.	43° 04.6′ N 5° 48.1′ 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° 04.7′ N 5° 47.1′ E	**Oc.W.R.G.** period 4s	10 **3**	W. 9 R. 7 G. 7	Lantern, gray base; 10.	G. 198°30′-207°, W.-213°, R.-221°30′.
6778 *E 0709.75*	--Port des Jeunes.	43° 04.7′ N 5° 47.2′ E	**Fl.R.** period 4s	7 **2**	4	Red lantern, gray base; 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° 04.8′ 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° 02.8′ N 5° 51.5′ E	**Fl.(2)W.** period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	154 **47**	9	White mast; 10.	Visible 147°-094°. 2 F.R. lights on radio tower 1.3 km. NW.
6792 *E 0712*	-Port St. Elme, jetty, head.	43° 04.6′ 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° 04.1′ 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, dwelling, red roof, black lantern; 46.	
	TOULON:						
6820 *E 0716*	-St. Mandrier, jetty, head.	43° 05.2′ N 5° 56.0′ E	**Fl.(2)R.** period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	56 **17**	9	White tower, red top, black base; 46.	Visible 080°-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°.
6822.1 *E 0717.6*	-Naval Training Center North, jetty, head.	43° 05.0′ N 5° 55.9′ E	**Fl.R.** period 2.5s fl. 0.5s, ec. 2s	10 **3**	3	Red and white concrete pile.	
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° 05.3′ N 5° 55.5′ E	**Fl.G.** period 2.5s	42 **13**	11	White tower, black top; 30.	Visible 186°-165°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			FRANCE-MEDITERRANEAN SEA				
6834 *E 0741.8*	-Appontement de Tamaris.	43° 05.5´ N 5° 54.1´ E	**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° 04.8´ N 5° 53.8´ 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	Red box, white support; 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°. 4 F.R. (vert.) lights are shown from a radar tower about 350 meters NE.
6837 *E 0721*	-Ecueil.	43° 06.2´ N 5° 55.4´ 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, white hut; 30.	
6844 *E 0729*	-Darse Vielle, entrance, W. side.	43° 07.1´ N 5° 55.7´ 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.	Visible 000°-280°.
6849 *E 0732*	---S.	43° 07.0´ N 5° 55.7´ E	**Q.G.**	7 **2**	2	Green three-sided structure, white wall.	
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	23 **7**	7	Dark green structure; 23.	
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	**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° 07.3´ N 5° 54.6´ E	**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, 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.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			FRANCE-MEDITERRANEAN SEA				
6888 *E 0744*	Les Salettes, jetty, head.	43° 05.2´ N 6° 04.7´ 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° 08.6´ 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 truncated tower, dwelling, black lantern; 66.	
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° 01.6´ N 6° 09.2´ E	**Iso.G.** period 4s	23 **7**	8	Gray structure, green top; 16.	
	ILE DE PORQUEROLLES:						
6904 *E 0750*	-Ecuels de la Jeaune Gard.	43° 00.4´ N 6° 09.6´ 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° 00.2´ N 6° 11.9´ 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° 03.9´ N 6° 09.1´ E	**Fl.G.** period 2s fl. 0.4s, ec. 1.6s	7 **2**	1	Green structure; 7.	
	LA PLAGE:						
6920 *E 0754*	-NE. jetty, entrance, E. side.	43° 04.7´ N 6° 09.5´ E	**Fl.G.** period 4s fl. 1s, ec. 3s	29 **9**	10	Green tower; 23.	
6924 *E 0754.2*	-W. jetty, head.	43° 04.7´ 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° 05.0´ 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° 04.9´ N 6° 09.6´ E	**Q.(6)+L.Fl.W.** period 15s	26 **8**	9	S. CARDINAL YB, column, topmark; 75.	
6936 *E 0754.8*	--N. head.	43° 05.0´ 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° 06.0´ N 6° 10.4´ E	**Fl.(2)G.** period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	19 **6**	6	Green structure; 13.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			FRANCE-MEDITERRANEAN SEA				
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*	-Maravenne 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.	Visible 207°-288°, 327°-330°, 001°-042° and 060°-096°. Reserve light 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° 08.1´ N 6° 22.3´ E	**Iso.W.G.** period 4s	26 **8**	W. 13 G. 10	Tripod; 26.	W. 266°-317°, G.-332°, W.-358°, G.-266°.
6972 *E 0765.3*	La Fourmique, rock.	43° 06.3´ N 6° 24.2´ E	**Fl.(2)W.** period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	26 **8**	8	Black mast, red bands; 23.	
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°.
6976 *E 0770*	**Le Titan.**	43° 02.8´ N 6° 30.6´ E	**Fl.W.** period 5s	230 **70**	**28**	White tower, black top, dwelling; 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° 40.5´ 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° 42.6´ 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° 16.4´ 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°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			FRANCE-MEDITERRANEAN SEA				
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° 35.4´ 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° 16.0´ N 6° 35.4´ E	**Fl.G.** period 2s fl. 0.4s, ec. 1.6s	7 **2**	1	Dark green metal 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.G.**	26 **8**	8	White metal structure, dark green lantern; 16.	
7028 *E 0788.4*	--W. Jetty, head.	43° 18.4´ N 6° 38.3´ 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		
7039.5 *E 0792.5*	Port-Frejus, S. jetty, head.	43° 25.2´ N 6° 45.0´ E	**Fl.(2)R.** period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	23 **7**	6	White metal post, red top; 20.	V.Q.W. Aero Control Tower (occasional), 700 meters W.
7041 *E 0792.01*	---S. head.	43° 25.3´ N 6° 45.8´ E	**Q.G.**	16 **5**	2	STARBOARD (A) G, structure, topmark.	
7048 *E 0793.4*	-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 *E 0793*	--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 *E 0794*	--Ilot Lion de Mer.	43° 24.4´ N 6° 46.4´ E	**V.Q.W.R.**	52 **16**	W. 11 R. 8	White structure; 33.	W. 275°-249°, R.-275°.
7060 *E 0795*	**Rade d'Agay.**	43° 25.6´ N 6° 52.2´ 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 *E 0795.5*	La Chretienne.	43° 25.3´ N 6° 53.7´ E	**Q.(6)+L.Fl.W.** period 15s	33 **10**	8	S. CARDINAL YB, tower, topmark; 43.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			FRANCE-MEDITERRANEAN SEA				
7068 *E 0796*	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 *E 0796.8*	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 *E 0797*	Port de la Galere, jetty, head.	43° 30.0´ N 6° 57.4´ E	**Q.R.**	30 **9**	7	White tower, red top; 23.	
7074 *E 0797.8*	*Pointe Saint Marc.*	43° 30.0´ N 6° 57.4´ E	**Fl.(2)G.** period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	23 **7**	5	Buoyant beacon, triangular daymark point up.	**Radar reflector.**
7076 *E 0798*	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; 20.	W. 198°-265°, R.-198°.
7080 *E 0798.4*	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 *E 0798.6*	-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 *E 0799*	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 *E 0799.4*	-Inner breakwater, head.	43° 31.4´ N 6° 56.7´ E	**Q.R.**		2	Red metal post; 7.	
	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, Jetee 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*	- -Jetee Ouest.	43° 32.4´ N 7° 01.9´ E	**Fl.R.** period 4s fl. 1s, ec. 3s	8 **2**	3	Red column; 13.	Obscured by Jetee Sud on bearing less than 123°.
7106 *E 0809*	Port de Moure Rouge.	43° 32.5´ N 7° 02.5´ 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; 46.	
	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 pryamidal tower, black top; 62.	G. 265°-305°, W.-309°, R.-336°, W.-342°, G.-009°.
7120 *E 0810*	- -Jetee 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°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			FRANCE-MEDITERRANEAN SEA				
7122 *E 0810.4*	--Jetee du Large, head.	43° 33.8´ N 7° 04.6´ E	**Fl.(2)G.** period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	33 **10**	10	White tower, green top; 20.	
7124 *E 0811*	-Port-Gallice.	43° 33.8´ N 7° 06.8´ E	**V.Q.(3)G.** period 2s	33 **10**	9	White column, dark green top; 26.	
7128 *E 0812.2*	-Le Crouton, S. breakwater, E. head.	43° 33.6´ N 7° 07.2´ E	**Fl.(2)R.** period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	20 **6**	5	Red tower, white base; 13.	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.(unintensified) 185°-235°, W.- 045°, R.-056°, G.-070°, R.- 090°, W.-135°.
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*	Dique du Large, head.	43° 35.4´ N 7° 07.9´ E	**Fl.R.** period 4s	49 **15**	11	White and yellow tower, red lantern; 43.	
7144 *E 0819.6*	-Du Fort Carre, entrance, W. side, head.	43° 35.3´ N 7° 07.8´ E	**Fl.G.** period 4s	33 **10**	5	Yellow tower, green lantern; 23.	Unintensified 218°-003°.
	BAIE DES ANGES:						
7160 *E 0818.6*	-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 *E 0818.7*	--E. breakwater, head.	43° 37.9´ N 7° 08.4´ 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 *E 0821*	-St. Laurent-du-Var, breakwater, head.	43° 39.3´ N 7° 10.7´ 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 *E 0822*	-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, white cupola, red lantern; 72.	
7188 *E 0823*	-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 *E 0824*	-Bassin du Commerce, entrance, W. side.	43° 41.5´ N 7° 17.2´ E	**Fl.(2)R.** period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	20 **6**	7	White column, red top; 16.	
7196 *E 0824.2*	--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 *E 0825*	-Bassin des Amiraux, entrance, W. side.	43° 41.6´ N 7° 17.1´ 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.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			FRANCE-MEDITERRANEAN SEA				
7204 *E 0826*	--E. side, on jetty, head.	43° 41.6´ N 7° 17.1´ 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 *E 0830*	Villefranche.	43° 42.0´ N 7° 18.6´ E	**Q.W.R.**	27 **8**	W. 12 R. 8	White square building, white cupola, red lantern; 30.	R. (unintensified) 148°-238°, R.-286°, W.-311°, R.-335°, W.-009°, R.-148°.
7210 *E 0831*	-Jetty, head.	43° 42.0´ N 7° 18.6´ E	**Q.G.**	10 **3**	2		
7212 *E 0832*	-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, red top, red base; 20.	
7216 *E 0828*	**Cap Ferrat.**	43° 40.5´ N 7° 19.6´ E	**Fl.W.** period 3s fl. 0.1s, ec. 2.9s	225 **69**	**25**	White octagonal pyramidal tower, green lantern, green base; 112. Floodlit.	Visible 226°-167°.
7220 *E 0833*	Saint Jean-Cap Ferrat, Jetee Abri, head.	43° 41.5´ N 7° 20.1´ 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; 26.	
	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° 42.4´ 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° 21.1´ E	**Fl.(2)R.** period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	20 **6**	9	White column, red base, lantern; 20.	
			MONACO				
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 (occasional), 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	Gray 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° 43.4´ N 7° 24.9´ E	**Fl.R.** period 4s fl. 1s, ec. 3s	16 **5**		Red metal tower; 13.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			FRANCE-MEDITERRANEAN SEA				
7268 *E 0848*	Menton, jetty, head.	43° 46.6´ N 7° 30.7´ E	**V.Q.(4)R.** period 3s	56 **17**	10	White metal 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° 31.3´ 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° 31.3´ E	**Fl.G.** period 4s fl. 1s, ec. 3s	10 **3**	2	White post, dark green top; 7.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			ITALY-WEST COAST				
7280 *E 1147*	Bordighera, mole, head.	43° 46.8´ N 7° 40.7´ E	**2 F.R.** (vert.)	36 **11**	3	Red post; 26.	2 meters apart. Safety distance 100m. Private light.
7284 *E 1147.4*	Capo Pino, outer breakwater, head.	43° 47.8´ N 7° 44.4´ E	**F.R.**	23 **7**	3	White post; 16.	Private light.
7288 *E 1147.6*	-Inner mole, head.	43° 47.8´ N 7° 44.4´ E	**F.G.**	23 **7**	3	White post; 16.	Private light.
	SAN REMO:						
7292 *E 1149*	-Molo Sud, head.	43° 48.9´ N 7° 47.2´ E	**L.Fl.R.** period 5s fl. 2s, ec. 3s	36 **11**	8	Red column, pedestal; 16.	Safety distance 25 meters.
7294 *E 1149.05*	--Finger, mole, head.	43° 48.9´ N 7° 47.2´ E	**F.R.**	16 **5**	2	Red post; 10.	Safety distance 20 meters.
7296 *E 1149.2*	-Molo Foraneo, head.	43° 49.0´ N 7° 47.3´ E	**L.Fl.G.** period 5s fl. 2s, ec. 3s	36 **11**	4	Green post; 23.	Safety distance 60 meters. Private light.
7300 *E 1149.08*	-Inner breakwater, head.	43° 48.9´ N 7° 47.1´ E	**F.G.**	20 **6**	4	Green post; 6.	
7304 *E 1150.4*	-Porto Sole.	43° 49.0´ N 7° 47.3´ E	**F.R.**	10 **3**	2	Red post; 6.	Private light.
7308 *E 1150.6*	--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 Fl.R.** period 2.5s fl. 1s, ec. 1.5s	256 **78**		Radio tower.	Two lights at top.
7316 *E 1152*	**Capo Verde.**	43° 49.1´ 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, white building, black bands; 49.	Reserve light range 18M. **AIS** (MMSI No 992471011).
	IMPERIA:						
7320 *E 1156*	**-Imperia Ponente.**	43° 52.5´ N 8° 01.6´ E	**Iso.W.** period 4s	36 **11**	**16**	White tower; 26.	Visible 210°-090°. Reserve light range 11M. **AIS** (MMSI No 992471012).
7328 *E 1157*	--S. mole, head.	43° 52.5´ N 8° 01.8´ E	**Fl.R.** period 3s fl. 1s, ec. 2s	31 **9**	8	Red column; 26.	
7332 *E 1158*	--N. mole, head.	43° 52.6´ N 8° 01.4´ E	**F.G.**	23 **7**	2	Green post; 20.	
7336 *E 1160*	--S. mole, root.	43° 52.6´ N 8° 01.3´ E	**F.R.**	36 **11**	2	Red post; 23.	
7340 *E 1162*	-Imperia Levante (Oneglia), E. mole, S. head.	43° 53.0´ N 8° 02.4´ E	**Fl.(2)G.** period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	46 **14**	8	Green truncated conical tower; 26.	Safety distance 30m.
7344 *E 1164*	--W. mole, head.	43° 53.1´ N 8° 02.5´ E	**F.R.**	26 **8**	3	Red truncated conical tower; 20.	Safety distance 25m.
7348 *E 1166*	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° 54.5´ N 8° 05.1´ E	**F.R.**	30 **9**	3	Red post; 16.	Private light.
7356 *E 1168*	**Capo Mele.**	43° 57.3´ N 8° 10.3´ E	**Fl.(3)W.** period 15s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 8.8s	308 **94**	**24**	White octagonal tower, two galleries, red three-story dwelling; 82.	Visible 196°-056°. Aeromarine light. Reserve light range 18M. **AIS** (MMSI No 992471013).
7360 *E 1169*	Laigueglia, on pier.	43° 58.8´ N 8° 09.6´ E	**F.R.**	30 **9**	3	Red post; 23.	Safety distance 10m. Fishing light. Private light.
7364 *E 1170*	Alassio, T-head pier.	44° 00.3´ N 8° 10.4´ E	**F.R.**	26 **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 post; 26.	Private light.
7380 *E 1171.4*	Loano.	44° 08.0´ N 8° 16.0´ E	**Fl.R.** period 3s fl. 1s, ec. 2s		3	Red post; 23.	Private light.
7384 *E 1171.5*	-Inner breakwater, head.	44° 08.0´ N 8° 15.9´ E	**Fl.G.** period 3s fl. 1s, ec. 2s		3	Green post; 26.	Private light.
7388 *E 1171.6*	Pietra Ligure.	44° 08.9´ N 8° 17.2´ E	**2 F.R.G.** (vert.)	33 **10**	3	Red post, green bands; 16.	2 meters apart. 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**	3	Red post; 19.	2 meters apart. Safety distance 60m. Private light.
7395 *E 1171.8*	-Submerged mole, head.	44° 10.5´ N 8° 22.3´ E	**2 F.G.** (vert.)	30 **9**	3	Green post; 20.	2 meters apart. Private light.
7396 *E 1172*	**Capo di Vado.**	44° 15.5´ 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**	14	White tower, dwelling; 112.	Reserve light range 7M.
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; 16.	
	RADA DI VADO:						
7408 *E 1175.1*	-Vado Ligure.	44° 15.8´ N 8° 26.7´ E	**Iso.G.** period 2s	65 **20**	2	Red post, black bands; 66.	Occasional. Private light.
			2 F.R. (vert.)	58 **18**			
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.
7440 *E 1180*	-Pontile Esso.	44° 16.2´ N 8° 26.7´ E	**3 F.G.** (vert.)	31 **9** 26 **8** 21 **6**	3	Green post; 20.	Private light.
7448 *E 1185*	-Pontile Enel.	44° 16.5´ N 8° 26.8´ 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.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			ITALY-WEST COAST				
7460 *E 1186.1*	-Quiliano River, N. side.	44° 16.9´ N 8° 26.7´ E	**Fl.R.** period 3s fl. 1s, ec. 2s	59 **18**	3	White and red tower, 49.	Private light. Occasional.
			2 F.R. (vert.)				Shown when vessels are expected.
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.)				Shown when vessels are expected.
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, 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° 29.4´ E	**F.G.**	33 **10**	3	Green tower; 26.	
7500 *E 1196*	-Mole Sottoflutto, head.	44° 19.0´ N 8° 29.7´ E	**Fl.G.** period 2s fl. 0.5s, ec. 1.5s	30 **9**	7	Green column, pedestal; 16.	Safety distance 35M.
7504 *E 1198*	Varazze, Molo Frangiflutti, head.	44° 21.1´ N 8° 34.3´ E	**F.R.**	26 **8**	3	Red post; 10.	Private light.
7508 *E 1199*	-Molo Sottoflutto, head.	44° 21.1´ N 8° 34.2´ 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° 41.2´ 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° 25.1´ N 8° 46.6´ E	**Fl.R.** period 4s fl. 1s, ec. 3s	36 **11**	8	Red column; 16.	Private light.
7528 *E 1202*	-Detached breakwater, W. head.	44° 25.0´ N 8° 46.2´ E	**Fl.G.** period 4s fl. 1s, ec. 3s	52 **16**	10	White round tower, green top.	Private light.
7532 *E 1202.4*	- -Elbow.	44° 24.7´ N 8° 47.7´ E	**Fl.W.** period 2s fl. 0.5s, ec. 1.5s	46 **14**	7	White column.	VIsible 217°-107°. 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.
	GENOVA-MULTEDO:						
7536 *E 7010*	-Oil pipeline terminal platform.	44° 24.2´ 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, framework tower; 75.	Private light.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			ITALY-WEST COAST				
7538 *E 7010.5*	--SE. oil terminal.	44° 23.6´ N 8° 50.0´ E	**Fl.Y.** period 4s fl. 1s, ec. 3s	36 **11**	6	SPECIAL Y, post, "X" topmark; 26.	Private light.
7540 *E 1212*	-Molo di Multedo.	44° 25.1´ N 8° 49.7´ 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° 49.0´ 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° 24.0´ N 8° 52.8´ E	**Fl.R.** period 2s fl. 0.5s, ec. 1.5s	44 **13**	7	Red column, pedestal; 16.	Private light.
7560 *E 1208.6*	-Diga Foranea.	44° 24.2´ N 8° 52.6´ E	**Q.G.**	33 **10**	5	Green column, pedestal; 16.	Private light.
7564 *E 1208.8*	--Spur projecting, N. head.	44° 24.2´ N 8° 52.6´ 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, terrace; 249.	Reserve light range 18M. **AIS** (MMSI No 992471014). Occasional. Private light.
			Oc.R. period 1.5s lt. 1s, ec. 0.5s	390 **119**	10		
7576 *E 1218*	-Duca di Galliera Mole, old head.	44° 23.5´ N 8° 55.9´ E	**F.R.**	43 **13**	4	Red column, hut; 20.	Visible 115°-303°. Private light.
7580 *E 1219*	--New head.	44° 23.3´ N 8° 56.3´ E	**Fl.R.** period 3s fl. 1s, ec. 2s	59 **18**	**15**	Red framework tower; 49.	**AIS** (MMSI No 992471016). 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, tower; 23.	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 123°-287°. 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° 55.1´ 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° 55.1´ E	**Fl.G.** period 3s fl. 1s, ec. 2s	26 **8**	7	Green truncated conical tower; 16.	Private light.
7608 *E 1215*	-Calata Olii 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; 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. **AIS** (MMSI No 992471015). Private light.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			ITALY-WEST COAST				
7620 *E 1233*	-Nervi, jetty, head.	44° 22.9´ N 9° 01.9´ E	**2 F.R.** (vert.)	23 **7**	3	Red post; 16.	1 meter apart. 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.	
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.	
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° 13.1´ 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. **AIS** (MMSI No 992471017). Private light.
7640 *E 1246*	-Entrance, N. side.	44° 18.2´ N 9° 12.7´ 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° 12.8´ E	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s	33 **10**	7	Red column, 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, "X" topmark.	Private light.
7648 *E 1254*	Santa Margherita Ligure, mole, head.	44° 19.9´ N 9° 13.1´ E	**Fl.R.** period 4s fl. 1s, ec. 3s	33 **10**	8	Red column, pedestal; 16.	
7652 *E 1255.5*	Rapallo, Molo Langano, head.	44° 20.7´ N 9° 13.9´ E	**F.R.G**	20 **6**	3	Red post, green bands; 20.	G. 220°-040°, R.-220°. Private light.
7656 *E 1256.2*	Molo di Levante.	44° 20.7´ N 9° 14.0´ E	**2 F.R.** (vert.)	23 **7**	3	Red post.	1 meter apart. Private light.
7657 *E 1256*	Pennello Boate.	44° 20.8´ N 9° 13.9´ E	**2 F.G.** (vert.)	23 **7**	3	Green post; 23.	1 meter apart. 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° 18.8´ N 9° 19.0´ E	**Fl.G.** period 3s fl. 1s, ec. 2s	26 **8**	5	Green column; 16.	Safety distance 40m. Private light.
7668 *E 1257.2*	- -Spur.	44° 18.7´ N 9° 19.2´ E	**F.G.**	13 **4**	3	Green post; 10.	Safety distance 10m. Private light.
7672 *E 1257.4*	-Molo Sottofluto, head.	44° 18.7´ N 9° 19.3´ E	**F.R.**	13 **4**	3	Red post; 10.	Safety distance 10m. Private light.
	LAVAGNA:						
7676 *E 1257.7*	-Molo Foraneo.	44° 18.2´ N 9° 20.6´ E	**L.Fl.R.** period 6s fl. 2s, ec. 4s	39 **12**	6	Red column, 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° 18.3´ N 9° 20.5´ 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.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			ITALY-WEST COAST				
	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. **AIS** (MMSI No 992471018).
	-RACON		**T(−)**		**18**		(3 & 10cm). Azimuth 256°-150°.
7700 *E 1265*	-Portovenere.	44° 03.0′ N 9° 50.2′ E	**F.R.**	20 **6**	3	Red column; 13.	Visible 085°-025°. Safety distance 10m. Private light.
7704 *E 1265.4*	-Molo Olivo, head.	44° 03.1′ N 9° 50.2′ E	**F.G.**	20 **6**	3	Green column; 13.	Safety distance 10m. Private light.
7708 *E 1263*	-Scoglio Torre della Scuola.	44° 03.1′ N 9° 51.5′ E	**Fl.(2)W.** period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	52 **16**	10	White metal framework tower; 7.	**AIS** (MMSI No 992471004).
	-La Spezia:						
7720 *E 1268*	--Punta Santa Maria.	44° 04.0′ N 9° 51.1′ E	**Fl.R.** period 4s fl. 1s, ec. 3s	36 **11**	9	Red tower; 23.	Partially obscured 335°-347° Safety distance 30m. **AIS** (MMSI No 992471005).
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.	**AIS** (MMSI No 992471008).
7728 *E 1323*	--Seno di Panigaglia.	44° 04.7′ N 9° 50.2′ E	**2 F.G.** (vert.)	26 **8**	3	Green post; 16.	1 meter apart. Private light.
7732 *E 1300*	---Cadimare Mole.	44° 05.3′ N 9° 49.9′ E	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s	21 **6**	5	Red column, pedestal; 16.	
7736 *E 1302*	---S. entrance to port, inner detatched breakwater, S. head.	44° 05.3′ N 9° 50.0′ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	21 **6**	7	Green column, pedestal; 16.	
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 column, pedestal; 16.	
7744 *E 1312*	---Entrance Range, front.	44° 05.9′ N 9° 48.9′ 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°.
7748 *E 1312.1*	**----Pegazzano,** rear, 1.02 km. 306° from front.	44° 06.2′ N 9° 48.3′ E	**Iso.W.** period 4s	157 **48**	**16**	Red and white checkered tower; 43.	Visible 302°-310°. **AIS** (MMSI No 992471019).
7752 *E 1319*	---Basin No 1, entrance, S. side.	44° 05.7′ N 9° 49.2′ E	**F.R.**	37 **11**	3	Red 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.
			2 F.R. (vert.)				Occasional.
7760 *E 1292*	--Mirabello Molo, N. head.	44° 06.1′ N 9° 49.7′ E	**Iso.R.** period 2s	21 **6**	4	Red tower; 13.	
7760.2 *E 1292.6*	---Helicopter pad.	44° 05.9′ N 9° 50.0′ E	**Fl.R.** period 2s fl. 0.5s, ec. 1.5s	13 **4**	3	Red post.	Private light.
7760.4 *E 1292.7*	---Fuel dock, head.	44° 05.9′ N 9° 50.0′ E	**Fl.Y.** period 2s fl. 0.5s, ec. 1.5s	13 **4**	5	SPECIAL Y, beacon, "X" topmark.	Private light.
7760.6 *E 1292.8*	---E. side of entrance.	44° 05.8′ N 9° 50.0′ E	**Fl.R.** period 3s fl. 1s, ec. 2s	20 **6**	5	Red post.	Private light.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			ITALY-WEST COAST				
7760.8 *E 1292.75*	---W. side of entrance.	44° 05.8´ N 9° 49.9´ E	**Fl.G.** period 3s fl. 1s, ec. 2s	20 **6**	5	Green post.	Obscured 265°-015°. Private light.
7764 *E 1290*	--Italia Molo, head.	44° 06.3´ N 9° 50.0´ E	**Fl.R.** period 4s fl. 1s, ec. 3s	26 **8**	8	Red tower; 23.	Safety distance 10m.
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 column, pedestal; 16.	Private light.
7772 *E 1285.2*	--Verzocchi Quay, N. corner.	44° 06.5´ N 9° 51.1´ E	**2 F.R.** (vert.)	36 **11**	3	Red tower; 30.	2 meters apart. Private light.
7776 *E 1285.4*	---S. corner.	44° 06.5´ N 9° 51.2´ E	**2 F.G.** (vert.)	36 **11**	3	Green tower; 30.	2 meters apart. Private light.
7780 *E 1285*	--Pontile ENEL.	44° 06.2´ N 9° 51.2´ E	**2 F.G.R.** (vert.)	20 **6**	3	Green post, red bands; 16.	2 meters apart. Private light.
7784 *E 1284*	--Molo dei Pagliari.	44° 06.1´ N 9° 51.4´ E	**2 F.R.G.** (vert.)	26 **8**	3	Red mast, green bands; 20.	2 meters apart. Private light.
7788 *E 1283*	--Pontile INMA, head.	44° 06.0´ N 9° 51.4´ E	**2 F.G.** (horiz.)	26 **8**	3	Red mast, 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**			
7789 *E 1282.2*	--Porto Lotti entrance, S.	44° 05.8´ N 9° 51.4´ E	**Fl.G.** period 3s fl. 1s, ec. 2s	23 **7**	5	Green 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	Red post; 16.	Private light.
7792 *E 1281.2*	--Beacon.	44° 05.7´ N 9° 51.8´ E	**F.R.**	23 **7**	3	Red post; 16.	Private light.
7796 *E 1281*	--Beacon.	44° 05.7´ N 9° 51.8´ E	**F.G.**	23 **7**	3	Green post; 16.	Private light.
7800 *E 1280.2*	--Porticiollo San Bartolomeo.	44° 05.7´ N 9° 51.8´ 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° 05.7´ N 9° 51.8´ E	**F.G.**	20 **6**	3	Green post; 16.	Private light.
7808 *E 1278*	--Mole del Muggiano, head.	44° 05.3´ N 9° 52.1´ E	**F.G.**	26 **8**	3	Green post; 20.	Private light.
7812 *E 1270*	--Outer detached breakwater, E. head.	44° 04.8´ N 9° 52.7´ E	**Fl.(2)R.** period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	33 **10**	8	Red tower; 26.	**AIS** (MMSI No 992471006). Safety distance 40m.
7816 *E 1270.2*	---Spur, ESE. from extremity.	44° 04.8´ N 9° 52.8´ E	**Iso.R.** period 2s	29 **9**	4	Red metal post; 16.	
7820 *E 1274*	--Punta Santa Teresa.	44° 04.9´ N 9° 52.9´ E	**Fl.(2)G.** period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	33 **10**	8	Green tower; 13.	**AIS** (MMSI No 992471007). Safety distance 40m.
7824 *E 1324*	Lerici.	44° 04.4´ N 9° 54.3´ E	**2 F.G.** (vert.)	24 **7**	3	Green post; 20.	1 meter apart. Private light.
7832 *E 1328*	**Marina di Carrera.**	44° 02.2´ N 10° 02.2´ E	**Fl.W.** period 3s fl. 1s, ec. 2s	72 **22**	**17**	White four-sided tower; 72.	Reserve light range 12M. **AIS** (MMSI No 992471020).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			ITALY-WEST COAST				
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°48′-315°18′, Al.W.G.-317°18′, F.W.-318°18′, Al.W.R.-320°18′, F.R.-322°48′. Private light.
7836 *E 1329*	**-Diga Foranea,** head.	44° 01.6´ N 10° 02.5´ E	**Iso.R.** period 2s	43 **13**	7	Red column, pedestal; 16.	Safety distance 30m.
7840 *E 1330*	**-Molo di Levante.**	44° 01.8´ N 10° 02.5´ E	**Iso.G.** period 2s	33 **10**	7	Green column, pedestal; 16.	Safety distance 35m.
7844 *E 1330.4*	Marina di Massa.	44° 00.3´ N 10° 05.8´ E	**2 F.G.R.** (vert.)	33 **10**	3	Red post, green bands; 20.	2 meters apart. Private light.
7848 *E 1331*	Fiume Cinquale.	43° 58.7´ N 10° 08.6´ E	**Fl.Y.** period 3s fl. 0.5s, ec. 2.5s	23 **7**	5	SPECIAL Y, post, "X" topmark; 16	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° 51.5´ N 10° 14.2´ E	**Fl.W.** period 5s fl. 0.2s, ec. 4.8s	98 **30**	**24**	White round tower; 104.	Reserve light range 18M. **AIS** (MMSI No 992471021). 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 column, pedestal; 16.	Safety distance 20m.
7864 *E 1341*	- N. mole, head.	43° 51.7´ N 10° 14.2´ E	**Iso.R.** period 3s	30 **9**	7	Red column, pedestal; 16.	Private light.
	FIUME ARNO:						
7868 *E 1347.25*	-S. breakwater, head.	43° 40.6´ N 10° 16.1´ E	**Fl.G.** period 3s fl. 1s, ec. 2s	26 **8**	8	Green post.	Private light.
7870 *E 1347.6*	FSRU Toscana.	43° 38.7´ N 9° 59.3´ E	**4 Fl.(2)+L.Fl.W.** period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 2s, ec. 5s	66 **20**	5	Platform.	1 on each corner of platform. Private light.
	RACON		**U(• • –)**	59 **18**			(3 & 10cm).
	SECCHE DELLA MELORIA:						
7872 *E 1347.8*	-Shoal, N., NW. extremity.	43° 35.5´ N 10° 12.7´ E	**Fl.(2)W.** period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	59 **18**	10	White round concrete tower, truncated conical base; 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 beacon, topmark.	
7876 *E 1348*	-Bank, S. edge.	43° 32.8´ N 10° 13.1´ 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° 33.5´ 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. 8 G. 6	Green column, pedestal; 16.	W. 064°-138°, G.-341°.
7882 *E 1359*	- -520 meters SSE.	43° 33.2´ N 10° 17.3´ E	**Fl.W.** period 3s fl. 1s, ec. 2s	33 **10**	5	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	Red column, pedestal, green bands; 16.	G. 160°-288°, R.-048°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			ITALY-WEST COAST				
7888 *E 1368*	--S. head.	43° 32.6´ N 10° 17.4´ E	**Fl.W.R.** period 3s fl. 0.5s, ec. 2.5s	72 **22**	W. 10 R. 11	Octagonal tower; 66.	R. 180°-078°, W.-139°. Reserve light Fl.R. 3s 6M.
7892 *E 1356*	**-Livorno.**	43° 32.6´ 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. **AIS** (MMSI No 992471022).
	-RACON		**LI(• – • • • •)**		**19**		(3 & 10cm).
7896 *E 1360*	-Diga Marzocco, head.	43° 33.5´ N 10° 17.4´ 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, 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, pedestal; 16.	Visible 281°-135°.
7920 *E 1380*	-Molo Mediceo, head.	43° 32.0´ N 10° 17.7´ E	**Fl.(2)G.** period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	23 **7**	6	Green column, pedestal; 16.	Visible only within the harbor.
7924 *E 1374*	-Diga della Vegliaia, W. head.	43° 32.3´ N 10° 17.2´ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	59 **18**	12	Green round tower; 46.	Visible 330°-240°. Reserve light range 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° 31.5´ N 10° 18.5´ E	**Fl.G.** period 6s fl. 1s, ec. 5s	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° 27.5´ N 10° 21.8´ E	**F.R.**	23 **7**	3	Red post; 16.	Private light.
			CORSE (CORSICA) (F.)				
	STRAIT OF BONIFACIO:						
7944 *E 0876*	**-Cap Pertusato.**	41° 22.0´ N 9° 11.1´ 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	White square tower, red bands, white dwelling; 39.	W. 243°-351°, R-243°. Partially obscured 138°-218°. 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 masonry tower; 10.	G. 328°-337°, W.-344°, R.-353°.
			Fl.(3)G. period 12s	16 **5**	2		
7952 *E 0874*	-Ecueil Lavezzi Rock.	41° 19.0´ N 9° 15.2´ 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(– • – •)**				(3 & 10cm).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CORSE (CORSICA) (F.)				
7960 *E 0875*	-Perduto Rock.	41° 22.0′ N 9° 18.9′ 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° 23.2′ N 9° 08.7′ E	**Iso.R.** period 4s	92 **28**	6	Red square tower, 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 cylindrical structure, 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	**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. 10 R. 7	White square tower, black top; 36.	R. 150°-270°, W.-150°. Directional light. Reserve light range 5/3M.
7984 *E 0890*	Les Moines.	41° 26.8′ N 8° 53.8′ E	**Q.(6)+L.Fl.W.** period 15s	85 **26**	9	S. CARDINAL YB, tower, topmark; 108.	
7986 *E 0889*	Caldarello, jetty, head.	41° 28.4′ N 9° 04.3′ E	**Q.W.R.G.**		W. 7 R. 6 G. 6	White tower.	G. 026°-035°, W.-037°30′, R.-046°.
7988 *E 0894*	**Pointe Senetosa.**	41° 33.5′ N 8° 47.7′ E	**Fl.W.R.** period 5s fl. 0.1s, ec. 4.9s	177 **54**	W. **20** R. **16**	Two white towers, black tops; 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°.
7996 *E 0898*	--Jetee Est.	41° 40.7′ N 8° 54.0′ E	**Iso.G.** period 4s	36 **11**	10	White column, green top; 23.	Visible 095°-094°.
8000 *E 0899*	--W. breakwater, head.	41° 40.6′ N 8° 54.1′ E	**Fl.(3)R.** period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	16 **5**	2	White column, red top; 3.	
8001 *E 0899.2*	--E. breakwater, head.	41° 40.7′ N 8° 54.4′ E	**Fl.(2)G.** period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	16 **5**	2	White structure, 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; 36.	Unintensified 186°-276°. F.R. shown from radio mast 5 miles ENE.
	AJACCIO:						
8008 *E 0908*	**-Citadelle.**	41° 55.0′ 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 tower, red top; 43.	R. 045°-057°, W.-045°.
8012 *E 0910*	-Jetee de la Citadelle.	41° 55.2′ N 8° 44.6′ E	**Q.R.**	43 **13**	6	White column, red top; 43.	
8020 *E 0913*	-Jetee de Margonajo.	41° 55.7′ N 8° 44.6′ E	**Fl.R.** period 4s	22 **7**	3	White column; 20.	F.W. and F.R. (occasional) shown 1 mile E.
8021 *E 0912*	-Port des Cannes.	41° 55.8′ N 8° 44.6′ E	**Fl.(2)R.** period 6s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 3.5s	16 **5**	3	White tower, red top; 10.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CORSE (CORSICA) (F.)				
8024 *E 0914*	-Aspretto, outer jetty, head.	41° 55.3´ N 8° 45.7´ E	**Q.R.G.**	26 **8**	7	White column, green top; 16.	G. 035°-300°, R.-035°. Occasional.
8028 *E 0915*	- -Inner jetty, head.	41° 55.3´ N 8° 45.8´ E	**Fl.R.** period 4s fl. 1s, ec. 3s	23 **7**	8	White column, red top; 10.	Occasional.
8032 *E 0906*	- -L´Ecueil de la Citadelle.	41° 54.8´ N 8° 44.4´ 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	33 **10**	6	Red truncated tower; 43.	
8034 *E 0905*	-La Guardiola.	41° 54.3´ N 8° 43.2´ E	**Fl.R.** period 2.5s fl. 0.5s, ec. 2s	20 **6**	2	Red tower; 33.	
8036 *E 0902*	**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, white masonry building; 59.	
8038 *E 0915.2*	Cargese, S. jetty, head.	42° 07.8´ N 8° 35.8´ 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 truncated tower, red top; 10.	R. 025°-325°, W.-025°.
8038.5 *E 0915.4*	-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**	3	White cylindrical structure, green top; 13.	
8040 *E 0916*	Ile Gargalu, NW. point.	42° 22.3´ N 8° 32.1´ E	**Fl.W.R.** period 4s fl. 1s, ec. 3s	121 **37**	W. 8 R. 5	White column, black top; 23.	R. 345°-348°, W.-214°, R.-221°.
8044 *E 0918*	**Pointe Revellata.**	42° 35.0´ 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**	White square tower, black top; 62.	Visible 060°-002°. Reserve light.
8048 *E 0919*	-Cala Revellata.	42° 34.8´ N 8° 43.5´ E	**Fl.G.** period 4s fl. 1s, ec. 3s	16 **5**	6	White tower, green top; 13.	
8052 *E 0920*	Calvi, foot of citadel.	42° 34.2´ N 8° 45.7´ E	**Oc.(2)G.** period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	98 **30**	8	White hexagonal tower, green lantern; 20.	Visible 095°-005°.
8056 *E 0922*	-Pier, head.	42° 34.0´ N 8° 45.7´ E	**Q.G.**	33 **10**	8	White square tower, dark green top; 33.	
8060 *E 0923*	-Breakwater, head.	42° 33.9´ N 8° 45.6´ E	**Fl.R.** period 4s	19 **6**	7	White structure, red top; 13.	
8064 *E 0924*	Sant-Ambrogio.	42° 36.2´ N 8° 49.7´ E	**Fl.(2)G.** period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	23 **7**	3	White metal post, dark green top; 20.	Fl.(2)R. marks head of SW. jetty.
8068 *E 0926*	Ile-Rousse-La Pietra.	42° 38.7´ N 8° 55.9´ 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, white house; 43.	G. 300°-079°, W.-234°, G.-275°.
8072 *E 0928*	-Shelter wall of jetty, head.	42° 38.5´ N 8° 56.4´ E	**Iso.G.** period 4s	39 **12**	8	White tower, green top; 39.	Visible 143°-111°.
	GOLFE DE SAINT-FLORENT:						
8076 *E 0930*	-Punta Mortella.	42° 42.9´ N 9° 15.3´ E	**Oc.G.** period 4s lt. 3s, ec. 1s	140 **43**	8	White square tower, green top; 46.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CORSE (CORSICA) (F.)				
8080 *E 0935*	-Pointe Vecchiaia.	42° 42.8´ N 9° 19.6´ 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 truncated tower, red top; 16.	W. 035°-174°, R.-035°.
8084 *E 0932*	-Cap Fornali.	42° 41.2´ N 9° 16.8´ E	**Fl.G.** period 4s fl. 1s, ec. 3s	46 **14**	6	White square tower, green top; 36.	Unintensified 000°-090°.
8088 *E 0934*	-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 *E 0933*	-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 upper portion; 16.	R. 116°-080°, W.-116°.
8096 *E 0933.2*	-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 tower, green upper portion; 10.	
8098 *E 0853*	Centuri.	42° 58.0´ N 9° 21.0´ E	**Fl.G.** period 4s	23 **7**	6		Fl.R. 2m 2M close SE.
8100 *E 0852*	**Cap Corse.**	43° 01.3´ N 9° 24.4´ E	**Fl.W.** period 5s fl. 0.1s, ec. 4.9s	278 **85**	**28**	White tower, black upper portion; 85.	Visible 057°-314°.
8104 *E 0854*	Macinaggio.	42° 57.5´ N 9° 27.3´ E	**Fl.(2)W.R.** period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	26 **8**	W. 11 R. 8	White tower, red upper portion; 26.	R. 120°-218°, W.-331°, R.-000°, R.(unintensified)-120°. Fl.(2)G. 2M marks N. spur head.
8108 *E 0855*	Capo Sagro.	42° 47.7´ 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 upper portion; 13.	
8110 *E 0862*	Toga.	42° 42.6´ N 9° 27.4´ E	**Q.R.**	33 **10**	4	White tower, red upper portion; 20.	
8110.5 *E 0862.6*	-N. breakwater, head.	42° 42.6´ N 9° 27.4´ E	**Q.G.**		2	White masonry structure; 13.	
	BASTIA:						
8112 *E 0856*	**-Jetee 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.(unintensified) 040°-130°, R.-215°, W.-325°, R.-040°.
8116 *E 0861*	-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 *E 0858*	-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; 30.	
8124 *E 0860*	-Jetee St. Nicoles.	42° 41.9´ N 9° 27.4´ E	**Fl.G.** period 4s fl. 1s, ec. 3s	29 **9**	11	Stone tower, green top; 16.	
8132 *E 0863*	Campoloro.	42° 20.2´ N 9° 32.4´ E	**Fl.R.** period 4s fl. 1s, ec. 3s	23 **7**	6	White column, red top; 16.	
8136 *E 0864*	**Ruisseau d'Alistro.**	42° 15.4´ N 9° 32.4´ 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.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CORSE (CORSICA) (F.)				
8137 *E 0865*	Solenzara.	41° 51.4´ N 9° 24.3´ E	**Iso.G.** period 4s		3		
8138 *E 0865.2*	-Quay.	41° 51.5´ N 9° 24.3´ E	**Oc.(2)R.** period 6s		3		
	GOLFE DE PORTO VECCHIO:						
8148 *E 0866*	**-Pointe de Chiappa.**	41° 35.7´ N 9° 21.9´ 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 lantern; 69.	Visible 198°-027°.
8152 *E 0866.4*	-Tourelle Pecorella.	41° 36.8´ N 9° 22.2´ E	**Fl.(3)G.** period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	39 **12**	6	White truncated tower, green top; 46.	
8156 *E 0867*	-Pointe St. Cyprien.	41° 37.1´ N 9° 21.3´ E	**Fl.W.G.** period 4s fl. 1s, ec. 3s	85 **26**	W. 11 G. 8	White square tower, black lantern; 43.	W. 220°-281°, G.-299°, W.-072°, G.-084°.
8160 *E 0869*	**-Pointe Sud de Pozzoli.**	41° 36.5´ N 9° 17.3´ E	**Iso.W.R.G.** period 4s	33 **10**	W. **15** R. 13 G. 13	White truncated tower, black top; 16.	G. 258°42′-271°42′ W.-275°12′, R.-288°12′.
8164 *E 0870.3*	-La Ciocca, tower.	41° 35.5´ N 9° 17.4´ E	**Fl.R.** period 2s fl. 0.4s, ec. 1.6s	10 **3**	2	Red truncated tower; 16.	
8168 *E 0870*	-Porto Vecchio.	41° 35.2´ N 9° 17.4´ E	**Oc.W.R.G.** period 4s	29 **9**	W. 11 R. 9 G. 9	Rectangular stone tower; 39.	G. 208°30′-223°30′, W.-225°30′, R.-240°30′.
8172 *E 0870.6*	-S. jetty.	41° 35.4´ N 9° 17.1´ 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 *E 0870.8*	-N. jetty.	41° 35.4´ N 9° 17.2´ 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 *E 0871.5*	*Iles Cerbicales La Vacca, 2 Buoy.*	41° 32.7´ N 9° 24.0´ E	**Q.(3)W.** period 10s	13 **4**	6	E. CARDINAL BYB, pillar, topmark.	**Radar reflector.**
			SARDEGNA (SARDINIA) (I.)				
	STRAIT OF BONIFACIO:						
8188 *E 0942*	-Isola Santa Maria.	41° 17.9´ N 9° 23.0´ E	**Fl.(4)W.** period 20s fl. 1.5s, ec. 1.5s fl. 1.5s, ec. 1.5s fl. 1.5s, ec. 1.5s fl. 1.5s, ec. 9.5s	56 **17**	10	White two-story dwelling; 39.	Visible 173°-016°.
8192 *E 0946*	-Isola Corcelli.	41° 18.1´ N 9° 24.0´ E	**Fl.(2)W.** period 10s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	72 **22**	11	ISOLATED DANGER BRB, tower, topmark; 39.	
8196 *E 0940*	**-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°. **AIS** (MMSI No 992471125). Reserve light range 19/15M.
	-RACON		**M(– –)** period 30s		6		(3 & 10cm).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SARDEGNA (SARDINIA) (I.)				
8200 *E 0936*	-Longonsardo (Santa Teresa de Gallura).	41° 14.7′ N 9° 11.9′ 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 *E 0937*	-Entrance Range, front.	41° 14.3′ N 9° 11.7′ E	**Oc.R.** period 4s lt. 3s, ec. 1s	39 **12**	3	White and green post, white rectangular daymark, black stripe; 33.	Visible 181°30′-211°30′.
			F.G.	20 **6**	3	White and green post.	
	For other lights in Bonifacio Strait, see Cap Pertusato.						
8204.1 *E 0937.1*	--Rear, 1280 meters 196°30′ from front.	41° 13.6′ N 9° 11.4′ E	**Fl.R.** period 4s fl. 1s, ec. 3s	148 **45**	7	White post, white rectangular daymark, black stripe; 16.	Visible 151°30′-241°30′.
8208 *E 0938*	**-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, two-story building; 75.	Visible 017°-256°. Reserve light range 17M.
8212 *E 1130*	**Isola Asinara.**	41° 07.1′ N 8° 19.1′ E	**Fl.(4)W.** period 20s fl. 1.5s, ec. 1.5s fl. 1.5s, ec. 1.5s fl. 1.5s, ec. 1.5s fl. 1.5s, ec. 9.5s	262 **80**	**16**	White round tower, three-story building; 115.	
	GOLFO DELL'ASINARA:						
	-Porto Torres:						
8216 *E 1138*	**--Porto Torres.**	40° 50.2′ N 8° 23.8′ E	**L.Fl.(2)W.** period 10s fl. 2s, ec. 2s fl. 2s, ec. 4s	147 **45**	**16**	White tower, two-story building; 66.	**AIS** (MMSI No 992471136). Reserve light range 12M.
8220 *E 1140*	--E. breakwater, head.	40° 50.7′ N 8° 23.9′ E	**L.Fl.R.** period 6s fl. 2s, ec. 4s	36 **11**	8	Red column, hut; 16.	F.R. and F.G. light is shown at entrance to basin near root of breakwater.
8224 *E 1139*	--W. breakwater, head.	40° 50.9′ N 8° 24.0′ E	**L.Fl.G.** period 6s fl. 2s, ec. 4s	37 **11**	11	Green column on hut; 30.	Reserve light range 8M.
	--RACON		**P(• – – •)**		6		(3 & 10cm).
8236 *E 1136.8*	--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 *E 1136.32*	---E. head.	40° 51.1′ 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 *E 1136.6*	-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.	1 meter apart. Private light.
8249 *E 1136.4*	--W. Range, front.	40° 50.2′ N 8° 22.2′ E	**Iso.G.** period 2s	89 **27**	2	Metal post, white rectangular daymark, black stripe; 98.	Visible 135°-225°. Private light.
			2 F.G. (vert.)	79 **24**			
8249.1 *E 1136.41*	---Rear, 120 meters 180° from front.	40° 50.1′ N 8° 22.2′ E	**F.G.**	115 **35**	2	Metal post, black rectangular daymark, white stripe; 92.	Visible 135°-225°. Private light.
			Oc.G. (vert.) period 4s lt. 3s, ec. 1s	105 **32**			

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SARDEGNA (SARDINIA) (I.)				
8250 *E 1136.5*	--E. Range, front.	40° 50.2′ N 8° 22.5′ E	**Iso.R.** period 2s	52 **16**	2	Pylon, white square daymark, black stripe; 56.	Visible 135°-225° Private light.
			F.R. (vert.)	43 **13**			
8250.1 *E 1136.51*	---Rear, 120 meters 180° from front.	40° 50.1′ N 8° 22.5′ E	**F.R.**	75 **23**	2	Pylon, black square daymark, white stripe; 49.	Visible 135°-225°. Private light.
			Oc.R. (vert.) period 4s	66 **20**			
8252 *E 1136.55*	-Pier No 2, S.I.R. Terminal.	40° 50.9′ N 8° 21.3′ E	**2 F.G.** (vert.)	33 **10**	3	Green post; 16.	Private light.
8262 *E 1135*	-Fiumo Santo Power Plant.	40° 51.5′ N 8° 18.3′ E	**Fl.Y.** period 3s fl. 0.5s, ec. 2.5s	13 **4**	3	Yellow tower.	Marks watering place. Private light.
8264 *E 1134*	-Stintino.	40° 56.2′ N 8° 13.9′ E	**Fl.R.** period 4s fl. 1s, ec. 3s	19 **6**	4	Red post.	Private light.
8264.5 *E 1134.4*	-Mole, head.	40° 56.1′ N 8° 13.9′ E	**Fl.G.** period 4s fl. 1s, ec. 3s	20 **6**	8	Green post.	Private light.
8265 *E 1133.5*	-Punta Salippi.	40° 59.3′ N 8° 12.7′ E	**Fl.W.R.G.** period 3s fl. 1s, ec. 2s	20 **6**	W. 5 R. 4 G. 4	White pillar, black stripes; 16.	G. 293°18′-297°, W.-305°, R.-308°42′.
8266 *E 1133*	--Passagio 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 pillar, black stripes; 13.	G. 065°12′-068°12′, W.-076°12′, R.-079°12′.
8268 *E 1132*	-Rada della Reale.	41° 03.2′ N 8° 17.6′ 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 *E 1124*	**-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, three-story building; 79.	**AIS** (MMSI No 992471128). Reserve light range 18M.
8280 *E 1126*	-Porto Conte.	40° 35.6′ N 8° 12.2′ E	**Fl.W.** period 3s fl. 1s, ec. 2s	57 **17**	10	White tower; 26.	
8284 *E 1122*	Isolotto della Maddalena.	40° 34.3′ N 8° 18.0′ E	**Fl.R.** period 5s fl. 1s, ec. 4s	33 **10**	4	White truncated conical tower, red bands; 20.	
8285 *E 1122.6*	--Inner breakwater, head.	40° 35.5′ N 8° 17.3′ E	**F.G.**	23 **7**	3	Green post; 16.	Private light.
	PORTO ALGHERO:						
8286 *E 1117*	-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 *E 1117.2*	--Molo di Sottoflutto, head.	40° 33.9′ N 8° 18.5′ E	**Fl.R.** period 3s fl. 1s, ec. 2s	33 **10**	8	Red column; 20.	
8296 *E 1119*	-N. breakwater, head.	40° 33.7′ N 8° 18.7′ E	**F.R.**	23 **7**	3	Red post; 20.	
8300 *E 1120*	Alghero AVIATION LIGHT.	40° 38.0′ N 8° 17.0′ E	**Al.Fl.W.G.**				Occasional. Private light.
8308 *E 1116.4*	-E. side, mole, head.	40° 17.2′ N 8° 28.6′ E	**F.R.**	26 **8**	3	Red post; 23.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SARDEGNA (SARDINIA) (I.)				
8309 *E 1116.5*	-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 *E 1112*	**Capo Mannu.**	40° 02.1´ N 8° 22.7´ 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, building; 36.	
8316 *E 1111*	Isolotto di Mal di Ventre, highest point.	39° 59.6´ N 8° 18.2´ E	**Fl.W.R.** period 6s fl. 1s, ec. 5s	85 **26**	W. 11 R. 8	White round tower, hut; 26.	R. 004°-020°, W.-004°.
8320 *E 1108*	-**Capo San Marco.**	39° 51.6´ N 8° 26.0´ E	**Fl.(2)W.** period 10s fl. 0.2s, ec. 2s fl. 0.2s, ec. 7.6s	187 **57**	**22**	Round tower, two-story building; 49.	Visible 215°-155°. Reserve light range 18M.
			L.Fl.R. period 5s fl. 2s, ec. 3s	180 **55**	12		Visible 097°30′-102°30′. Over Scoglio il Catalano
8324 *E 1106*	-Torre Grande.	39° 54.4´ N 8° 31.0´ E	**Fl.R.** period 5s fl. 1s, ec. 4s	60 **18**	8	Round tower; 52.	
8332 *E 1107.2*	--Pontile Sipsa, head.	39° 53.5´ N 8° 32.1´ E	**2 F.R.G.** (vert.)	30 **9** 26 **8**	3	Red and green post; 20.	Private light.
8336 *E 1107.6*	--Pontile Perlite, head.	39° 53.6´ N 8° 32.0´ E	**2 F.G.R.** (vert.)	42 **13** 39 **12**	3	Green and red post; 36.	Private light.
8344 *E 1105.2*	--Oristano.	39° 51.9´ N 8° 32.6´ E	**Fl.R.** period 5s fl. 1.5s, ec. 3.5s	33 **10**	7	Red column; 16.	
8353 *E 1104.2*	--Mole, head.	39° 49.8´ N 8° 33.1´ E	**Fl.Y.** period 3s fl. 0.5s, ec. 2.5s	16 **5**	3	Yellow post; 7.	Private light.
8356 *E 1104*	-Capo Fresca.	39° 46.2´ N 8° 27.3´ E	**Fl.W.** period 6s fl. 1s, ec. 5s	218 **66**	11	White round tower, hut; 23.	
8358 *E 1103.24*	Buggerru.	39° 24.2´ N 8° 23.9´ E	**Fl.R.** period 3s fl. 1s, ec. 2s		4	Red structure; 23.	Fl.G. 3s 4M marks W. mole.
	CANALE DI SAN PIETRO:						
8360 *E 1103*	-Isola Piana, N. extremity.	39° 11.6´ 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° Over Secca Grande, W.-209°, F.G. 3M marks head of breakwater about 625 meters SE. **Radar reflector.**
8362 *E 1103.2*	-Secca Grande.	39° 12.8´ N 8° 20.3´ E	**Q.W.**	20 **6**	3	N. CARDINAL BY, beacon, topmark.	**Radar reflector.**
8363 *E 1099.2*	-Portoscuso.	39° 12.0´ N 8° 22.8´ E	**2 F.R.** (vert.)		4	Post.	Private light.
8364 *E 1099*	-Scolglio 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	Black truncated tower, red bands.	W. 116°-153°, R.-165°, W.-100°, R.-116°.
8370 *E 1100*	---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, beacon, topmark; 20.	**Radar reflector.**

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SARDEGNA (SARDINIA) (I.)				
8371 *E 1100.04*	---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, beacon, topmark; 20.	Channel marked by lighted beacons. **Radar reflector.**
8374 *E 1100.5*	--Extension of Molo di Ponente.	39° 11.6′ N 8° 23.2′ E	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s	20 **6**	3	PORT (A) R, beacon, topmark; 20.	
8376 *E 1100.8*	---Elbow.	39° 11.7′ N 8° 23.4′ E	**F.R.**	26 **8**	3	Red post; 20.	Visible 195°-063°. Safety distance 30m.
8380 *E 1101*	--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, hut; 23.	Safety distance 20m.
	-Carloforte:						
8388 *E 1093*	--Entrance Range, front, Duono.	39° 08.7′ N 8° 18.3′ E	**F.R.**	75 **23**	3	White bell tower; 72.	
8392 *E 1093.1*	---Rear, about 380 meters 273°27′ from front.	39° 08.7′ N 8° 18.1′ E	**F.R.**	131 **40**	3	Black and white checkered beacon; 16.	
8396 *E 1096*	--Molo della Sanita, head.	39° 08.7′ N 8° 19.0′ E	**Fl.G.** period 3s fl. 1s, ec. 2s	26 **8**	6	Green column; 20.	
8400 *E 1095*	-Molo Central, at head.	39° 08.7′ N 8° 18.5′ E	**Fl.Y.** period 3s fl. 1s, ec. 2s	30 **9**	3	Yellow post; 23	
8412 *E 1094*	--Leading beacon Range, front.	39° 08.4′ N 8° 18.6′ E	**F.R.**	36 **11**	6	White building, black bands; 26.	
8414 *E 1094.1*	---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 *E 1092*	--Molo San Vittorio (Molo S.), head.	39° 08.7′ N 8° 19.0′ E	**Fl.R.** period 3s fl. 1s, ec. 2s	24 **7**	8	Red column; 16.	
8418 *E 1093.5*	-Secca dei Marmi Beacon.	39° 09.0′ N 8° 20.0′ E	**Fl.Y.** period 3s fl. 1s, ec. 2s	20 **6**	4	SPECIAL Y, beacon, "X" topmark.	**Radar reflector.**
8419 *E 1093.6*	-Approach beacon.	39° 08.7′ N 8° 20.1′ E	**L.Fl.W.** period 10s fl. 2s, ec. 8s	20 **6**	6	SAFE WATER RW, articulated beacon, topmark.	**Radar reflector.**
8419.5 *E 1096.5*	-Fishing harbor, S. pier, head.	39° 08.9′ N 8° 18.7′ E	**2 F.R.** (vert.)	23 **7** 16 **5**	2	Red mast; 13.	Private light.
8419.75 *E 1096.6*	--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 *E 1098*	-Calasetta, Isola di Sant′ Antioco, N. side, outer mole, head.	39° 06.8′ N 8° 22.5′ E	**2 F.G.** (vert.)	20 **6** 16 **5**	3	Green mast; 16.	F.R. on silo. Private light.
8424 *E 1098.4*	--Inner mole, head.	39° 06.8′ N 8° 22.4′ E	**2 F.R.** (vert.)	19 **6** 16 **5**	3	Red mast; 16.	Private light.
8428 *E 1086*	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 *E 1090*	**Capo Sandalo.**	39° 08.9′ 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, two story stone dwelling; 98.	Aeromarine light. Visible 322°-191° and in Canale di Pietro 311°-322°. **AIS** (MMSI No 992471135). Reserve light range 19M.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SARDEGNA (SARDINIA) (I.)				
	GOLFO DI PALMAS:						
8436 *E 1074*	-Isolotta Il Toro.	38° 51.7´ 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, white hut; 26.	W. 205°-199°, R.-205°.
8440 *E 1080*	**-Saint Antioco Ponti.**	39° 03.5´ N 8° 28.4´ E	**Fl.W.** period 5s fl. 1s, ec. 4s	75 **23**	**15**	White tower, two-story building; 72.	**AIS** (MMSI No 992471134). Reserve light range 11M.
8444 *E 1084*	--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 *E 1073*	-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 *E 1073.1*	-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 *E 1072*	**Capo Spartivento.**	38° 52.7´ 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, two-story building; 62.	Visible 240°-085°, and 093°-094°. **AIS** (MMSI No 992471133). Reserve light range 18M.
8449 *E 1071.2*	-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 *E 1071*	--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 *E 1070*	Capo di Pula.	38° 59.2´ N 9° 01.3´ 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, hut; 52.	
	GOLFO DI CAGLIARI:						
	-Sarroch:						
8456 *E 1067*	--Oil Terminal Platform.	39° 05.1´ N 9° 03.1´ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	89 **27**	6	Column, red platform.	Approach channel marked by articulated beacons. Private light.
8464 *E 1066.7*	--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	Red pole, white triangular daymark point up, red stripe; 16.	2 F.G. (vert.) light is shown at head of inner spur. Private light.
8468 *E 1066.71*	--Pontile SARAS, No 2, rear, about 1240 meters 291° from front.	39° 06.2´ N 9° 00.9´ E	**2 Oc.R.** (vert.) period 4s lt. 3s, ec. 1s	92 **28** 89 **27**	3	Red pole, white triangular daymark point up, red stripe; 33.	Visible 287°-295°. Private light.
8476 *E 1066.24*	-Pontile Rumianca Sud, head.	39° 09.4´ N 9° 02.9´ E	**2 F.R.G.** (vert.)	29 **9** 26 **8**	3	Red and green poles; 10.	Private light.
8480 *E 1066.26*	--Pontile Rumianca Sud, 240 meters 306° from head.	39° 09.5´ N 9° 02.8´ E	**Q.W.**	29 **9**	3	White mast; 10.	Private light.
8484 *E 1066.28*	--Pontile Rumianca Sud, 960 meters 306° from head.	39° 09.7´ N 9° 02.4´ E	**Iso.R.G.** period 2s	29 **9**	3	Red pole, green stripe; 10.	G. 126°-306°, R.-126°. Private light.

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			SARDEGNA (SARDINIA) (I.)				
8488 *E 1066*	-About 160 meters 000° from Pontile Rumianca Sud Root.	39° 10.0´ N 9° 02.0´ E	**Oc.G.** period 6s lt. 5s, ec. 1s	70 **21**	4	Green pole; 49.	Visible 126°-306°. Private light.
8492 *E 1066.2*	-About 206 meters 247° from Pontile Rumianca Sud Root.	39° 09.9´ N 9° 01.9´ E	**Oc.R.** period 4s lt. 3s, ec. 1s	70 **21**	4	Red mast; 49.	Visible 306°-126°. Private light.
	-Cagliari:						
8500 *E 1056.2*	--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 *E 1056*	---Elbow.	39° 12.2´ N 9° 06.6´ E	**F.R.**	23 **7**	4	Red post.	Visible 110°-330°.
8502 *E 1057*	--E. breakwater, head.	39° 11.7´ N 9° 06.6´ E	**Fl.G.** period 3s fl. 1s, ec. 2s	43 **13**	9	White truncated conical tower, green band; 36.	
	---RACON		**C(– • – •)**		6		(3 & 10cm).
8503 *E 1057.4*	--Approach.	39° 11.0´ N 9° 06.4´ 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	Green beacon, red band, green triangular daymark point up.	Fl.(2+1)G. 7s 6m 3M and Fl.(2+1)R. 7s 6m 3M beacons close S.
8503.2 *E 1065.62*	--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 *E 1065.61*	--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 *E 1065.625*	--Entrance, NE. side.	39° 11.6´ N 9° 05.8´ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	16 **5**	4	Green beacon, green triangular daymark, point up.	Visible 268°-183°. Private light.
8503.45 *E 1065.615*	---SW. side.	39° 11.6´ N 9° 05.7´ E	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s	16 **5**	4	Red beacon, red square daymark.	Visible 101°-006°. Private light.
8503.6 *E 1065.64*	--Dock approach, NE. side.	39° 12.2´ N 9° 05.0´ E	**Fl.(2)G.** period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	16 **5**	4	Green beacon, green triangular daymark, point up.	Private light.
8503.65 *E 1065.63*	---SW. side.	39° 12.2´ N 9° 04.9´ E	**Fl.(2)R.** period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	16 **5**	4	Red beacon, red square daymark.	Private light.
8503.8 *E 1065.68*	--Dock entrance, SE. side.	39° 12.5´ N 9° 04.8´ E	**2 F.G.** (vert.)		3	Green post.	Private light.
8503.85 *E 1065.67*	---NW. side.	39° 12.5´ N 9° 04.7´ E	**2 F.R.** (vert.)		3	Red post.	Private light.
8505 *E 1065.6*	--Basin.	39° 13.3´ N 9° 03.6´ E	**Dir.W.R.G.**	59 **18**	W. 5 R. 3 G. 3	White post; 20.	F.G. 313°06′-315°00′, Al.W.G.-315°24′, F.W.-315°48′, Al.W.R.-316°12′, F.R.-318°06′. Private light.
8508 *E 1064*	--Molo della Capitaneria, NW. corner.	39° 12.6´ N 9° 06.8´ E	**Fl.G.** period 4s fl. 1s, ec. 3s	20 **6**	3	Green mast; 16.	
8512 *E 1063*	--Pontile della Dogana, SE. corner.	39° 12.7´ N 9° 06.8´ E	**Fl.R.** period 4s fl. 1s, ec. 3s	23 **7**	3	Red mast; 16.	
8516 *E 1059.2*	--Molo Su Siccu, NW. arm.	39° 12.3´ N 9° 07.2´ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	19 **6**	3	Green pole; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SARDEGNA (SARDINIA) (I.)				
8520 *E 1059*	---SE. arm.	39° 12.2′ N 9° 07.4′ E	**F.R.**	19 **6**	3	Red mast; 16.	
8524 *E 1058*	--Pontile Sant Elmo, head.	39° 12.1′ N 9° 07.4′ E	**Fl.Y.** period 5s fl. 1s, ec. 4s	20 **6**	4	SPECIAL Y, beacon, "X" topmark.	
8528 *E 1065*	--Elmas AVIATION LIGHT.	39° 14.9′ N 9° 04.0′ E	**Al.Fl.W.G.**				Occasional.
8532 *E 1054*	**-Capo Sant' Elia.**	39° 11.1′ N 9° 08.8′ 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, two-story dwelling; 69.	**AIS** (MMSI No 992471132). Reserve light range 18M.
8536 *E 1053*	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 *E 1053.2*	-Entrance, E. side, pier, head.	39° 11.6′ N 9° 09.8′ E	**Fl.G.** period 5s fl. 0.5s, ec. 4.5s	19 **6**	1	Green mast; 16.	Private light.
8544 *E 1042.1*	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, hut; 16.	Visible 009°-058°.
8548 *E 1043*	**Capo Carbonara.**	39° 06.3′ 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 *E 1049*	Seccadi San Caterina beacon.	39° 05.0′ N 9° 29.7′ E	**Q.(9)W.** period 15s	16 **5**	5	W. CARDINAL YBY, beacon, topmark.	**Radar reflector.**
8552 *E 1048*	Isola dei Cavoli.	39° 05.4′ N 9° 32.1′ E	**Fl.(2)W.R.** period 10s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	242 **74**	W. 11 R. 8	White tower, black bands, two-story building; 121.	W. 162°-073°, R.-093°, W.-128°.
8556 *E 1044*	Secca dei Berni, near Porto Giunco.	39° 06.8′ N 9° 33.1′ 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.	
8560 *E 1042*	Capo Ferrato.	39° 18.0′ N 9° 37.9′ E	**Fl.(3)W.** period 10s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	167 **51**	11	White tower, white building; 36.	
8564 *E 1032*	**Capo Bellavista.**	39° 55.9′ N 9° 43.0′ 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.	**AIS** (MMSI No 992471131). Reserve light range 18M.
			F.R.	476 **145**	6	Concrete pylon.	Visible 164°-177°30′.
8568 *E 1034*	Arbatax, Mole di Levante, head.	39° 56.0′ N 9° 42.0′ E	**F.R.**	45 **14**	5	White truncated conical tower, red top; 20.	Visible 295°-150°.
8569 *E 1033*	-Mole, head.	39° 56.6′ N 9° 42.2′ E	**Fl.R.** period 3s fl. 1s, ec. 2s	30 **9**	9	White tower, red band; 26.	
8572 *E 1036*	-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, stone tower; 33.	R. 107°-147°, G.-107°.
8580 *E 1031*	Cala Gonone, outer mole.	40° 17.0′ N 9° 38.0′ E	**F.G.**	23 **7**	3	Green post.	Private light.
8584 *E 1031.2*	-Inner mole.	40° 16.8′ N 9° 38.4′ E	**F.R.**	23 **7**	3	Red post.	Private light.
8588 *E 1030*	**Capo Comino.**	40° 31.6′ N 9° 49.6′ E	**Fl.W.** period 5s fl. 1s, ec. 4s	85 **26**	**15**	White tower, building; 66.	Visible 148°-010°. **AIS** (MMSI No 992471130). Reserve light range 11M.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SARDEGNA (SARDINIA) (I.)				
8592 *E 1029*	La Caletta, outer mole.	40° 36.0´ N 9° 45.0´ E	**Fl.G.** period 3s fl. 1s, ec. 2s	26 **8**	2	Post, truncated pyramidal base; 7.	Private light.
8596 *E 1029.2*	-Inner mole.	40° 36.6´ N 9° 45.3´ E	**Fl.R.** period 3s fl. 1s, ec. 2s	16 **5**	2	Red post, truncated pyramidal base; 23.	Private light.
8598	Isolotto d'Ottiolo.	40° 44.3´ N 9° 43.5´ E	**Q.(3)W.** period 10s	16 **5**	5	E. CARDINAL BYB, beacon, topmark.	
	GOLFO DI OLBIA:						
8600 *E 1028*	**-Isola Tavolara.**	40° 55.6´ N 9° 44.1´ E	**L.Fl.(2)W.** period 10s fl. 2s, ec. 2s fl. 2s, ec. 4s	236 **72**	**15**	White polygonal tower; 23.	Visible 050°-341°. **AIS** (MMSI No 992471129). Reserve light range 12M.
8604 *E 1028.4*	--Porticciolo, outer mole.	40° 55.2´ N 9° 43.6´ E	**F.R.**	23 **7**	3	Red column; 13.	
8608 *E 1028.6*	---Inner mole.	40° 55.2´ N 9° 43.6´ E	**F.G.**	23 **7**	3	Green column; 13.	
8612 *E 1013.8*	-Capo Ceraso Beacon.	40° 55.6´ N 9° 38.1´ E	**Q.W.**	21 **6**	5	N. CARDINAL BY, articulated beacon, topmark.	**Radar reflector.**
8616 *E 1014*	**--Isola della Bacon.**	40° 55.2´ N 9° 34.0´ E	**L.Fl.W.** period 5s fl. 2s, ec. 3s	80 **24**	**15**	White tower, two-story building; 72.	Visible 180°-264°. **AIS** (MMSI No 992471127). Reserve light range 11M.
8624 *E 1019*	--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, pedestal; 16.	
8632 *E 1020*	--Pontile Benedetto Brin, S. corner, head.	40° 55.3´ N 9° 30.6´ E	**F.G.**	20 **6**	3	Green post; 16.	
8640 *E 1025*	--Su Arrasolu Pier, E. corner of T-head.	40° 55.7´ N 9° 30.9´ E	**F.R.**	23 **7**	3	Red post, white hut; 16.	Private light.
8648 *E 1012.2*	-Golf of Aranci, head of mole, S. side.	40° 59.6´ N 9° 37.3´ E	**Oc.Y.** period 3s lt. 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 *E 1012.4*	--Head of mole, near launching cradle.	40° 59.6´ N 9° 37.3´ E	**Oc.G.** period 3s lt. 2s, ec. 1s		3	Green post, hut; 26.	
8656 *E 1013.5*	-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 *E 1013.6*	--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 *E 1010*	-Isolotto Figarolo, Golfo di Olbia, entrance, N. side.	40° 58.7´ N 9° 38.7´ E	**Fl.W.** period 5s fl. 1s, ec. 4s	233 **71**	11	Black column, white bands; 19.	Visible 225°-076°.
8665 *E 1009.65*	Punta Cala Volpe.	41° 02.4´ N 9° 33.6´ E	**Q.W.**	16 **5**	4	N. CARDINAL BY, beacon, topmark.	Private light.
8666 *E 1009.8*	Punta Canigione.	41° 01.5´ N 9° 35.7´ E	**Q.W.**	16 **5**	5	N. CARDINAL BY, beacon, topmark.	Private light.
8668 *E 1009.7*	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 *E 1009.56*	Porto Rotondo, shelter mole.	41° 01.8´ N 9° 32.6´ E	**Fl.W.R.** period 5s fl. 1s, ec. 4s	23 **7**	W. 7 R. 5	White post; 20.	R. 215°-240°, W.-215°. Private light.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SARDEGNA (SARDINIA) (I.)				
8669.5 *E 1009.6*	-N. breakwater.	41° 01.8′ N 9° 32.6′ E	**Fl.R.** period 2s fl. 0.5s, ec. 1.5s	16 **5**	3	Red post; 10.	Private light.
8670 *E 1009.62*	-S. breakwater.	41° 01.8′ N 9° 32.6′ E	**Fl.G.** period 2s fl. 0.5s, ec. 1.5s	16 **5**	3	Green post; 10.	Private light.
8671 *E 1009.5*	-Portisco, Marina di Sa Petra, E. mole.	41° 02.0′ N 9° 31.6′ E	**Fl.G.** period 4s fl. 1s, ec. 3s	20 **6**	3	Green truncated conical tower, post; 16.	Fl.R. 4s 6m 4M marks W. mole. Private light.
8672 *E 1009*	Punta Ligata.	41° 03.9′ N 9° 32.5′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	36 **11**	3	White truncated conical tower; 10.	Private light.
8676 *E 1009.2*	Cala di Volpe, N. cove, E. entrance point.	41° 04.9′ N 9° 32.5′ E	**Fl.G.** period 4s fl. 0.5s, ec. 3.5s	19 **6**	1	STARBOARD (A) G, post, topmark; 20.	Private light.
8680 *E 1009.4*	-W. entrance point.	41° 05.0′ N 9° 32.2′ E	**Fl.R.** period 4s fl. 0.5s, ec. 3.5s	23 **7**	1	PORT (A) R, post, topmark; 20.	Private light.
8684 *E 1008.4*	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 *E 1008.5*	--NE. shoal.	41° 05.7′ N 9° 35.3′ E	**Q.(3)W.** period 10s	20 **6**	4	E. CARDINAL BYB, beacon, topmark.	Private light.
8688 *E 1008.7*	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.
8692 *E 1005.4*	Porto Cervo, S. entrance point.	41° 08.2′ N 9° 32.3′ 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° 08.3′ N 9° 32.3′ 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° 31.4′ E	**Iso.R.** period 2s	89 **27**	3	White post, 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° 08.0′ 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	**F.R.**	23 **7**	3	Red post; 16.	Private light.
8716 *E 1008*	Isole di li Nibani, on N. islet.	41° 07.9′ 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° 08.7′ 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, two-story building; 59.	Aeromarine light. **AIS** (MMSI No 992471126). Reserve light range 18M.
			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.	

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			SARDEGNA (SARDINIA) (I.)				
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° 31.0´ 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° 27.7´ E	**Fl.(2)W.** period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6s	16 **5**	5	ISOLATED DANGER BRB, beacon, topmark.	**Radar reflector.**
8742 *E 0995*	Porticciolo di Cannigione.	41° 06.4´ N 9° 26.7´ E	**Fl.G.** period 4s fl. 1s, ec. 3s	23 **7**	3	Green post.	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	Green post, green truncated pyramidal building; 13.	Visible 275°-110°.
8748 *E 0992*	Capo d'Orso, NE. extremity.	41° 10.7´ N 9° 25.4´ E	**Fl.W.** period 3s fl. 1s, ec. 2s	39 **12**	10	White truncated conical tower; 33.	
	LA MADDALENA:						
8752 *E 0991*	-Punta Villamarina, Isola S. Stefano.	41° 11.2´ N 9° 24.6´ E	**Fl.G.** period 4s fl. 1s, ec. 3s	46 **14**	4	Green column, pedestal; 20.	
8753 *E 0993*	-Cala Capra, N. mole, head.	41° 10.1´ N 9° 25.3´ E	**F.G.**	20 **6**	4	Green post, platform; 16.	Private light.
8756 *E 0966*	-Isola Chiesa, S. extremity, mole, head.	41° 12.6´ N 9° 25.0´ E	**F.R.**	26 **8**	3	Red column, hut; 23.	
8760 *E 0960*	--La Maddalena Range, front.	41° 12.8´ N 9° 25.1´ E	**F.G.**	56 **17**	3	White beacon tower, black band; 13.	
8761 *E 0960.1*	---Rear, 680 meters 066° from front.	41° 12.9´ N 9° 25.3´ E	**F.G.**	121 **37**	3	White beacon tower, black stripe; 23.	
8764 *E 0968*	--Beacon, 174 meters SW. of mole at S. extremity of island.	41° 12.5´ N 9° 24.9´ E	**F.G.**	19 **6**	3	Green beacon; 16.	
8766 *E 0955*	-Punta Tegge.	41° 12.6´ N 9° 22.7´ E	**Fl.R.** period 4s fl. 0.5s, ec. 3.5s	13 **4**	3	Red truncated pyramidal beacon.	
8768 *E 0957*	-Guardia Vecchia Range, front.	41° 12.9´ N 9° 23.8´ E	**Iso.G.** period 2s	164 **50**	8	White hut, black stripe; 3.	Visible 008°12′-019°48′ between Secche del Paulau and Roma.
8772 *E 0957.1*	--Rear, about 869 meters 014° from front.	41° 13.3´ N 9° 24.0´ E	**Oc.G.** period 4s lt. 3s, ec. 1s	492 **150**	8	White hut, black stripe; 3.	
8776 *E 0962.4*	-Via G. Amendola, E. extremity.	41° 12.8´ N 9° 24.5´ E	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s	23 **7**	3	Red post; 16.	
8780 *E 0962*	--W. extremity, E. side of Cala Gavetta entrance.	41° 12.6´ N 9° 24.3´ E	**Fl.G.** period 3s fl. 1s, ec. 2s	23 **7**	3	Green column; 20.	

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			SARDEGNA (SARDINIA) (I.)				
8784 *E 0961*	--Mole, new head.	41° 12.6´ N 9° 24.3´ E	**Fl.R.** period 3s fl. 1s, ec. 2s	20 **6**	3	Red column; 16.	
8788 *E 0963*	-Cala Mangiavolpe, pier, head.	41° 12.8´ N 9° 24.6´ E	**Fl.Y.** period 3s fl. 1s, ec. 2s	23 **7**	3	Yellow post; 16.	
8792 *E 0964*	-W. side of bay, breakwater, head.	41° 12.8´ N 9° 24.7´ E	**Fl.R.** period 3s fl. 1s, ec. 2s	16 **5**	3	Red post; 7.	
8796 *E 0972*	-Hospital Wharf, head.	41° 12.8´ N 9° 25.5´ E	**F.R.**	23 **7**	3	Red post; 20.	
8804 *E 0974*	-Cala Camiciotto, W. side of entrance, mole, head.	41° 12.8´ N 9° 25.6´ E	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s	23 **7**	3	Red post; 16.	
8805 *E 0975*	--E. side of entrance, mole, head.	41° 12.8´ N 9° 25.7´ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	23 **7**	3	Green post; 16.	
8816 *E 0980*	-Cala Stagnali Range, front.	41° 12.0´ N 9° 27.1´ E	**F.G.**	30 **9**	3	White post, white pylon, black bands; 16.	
8820 *E 0980.1*	--Rear, about 87 meters 139° from front.	41° 11.9´ N 9° 27.1´ E	**F.G.**	46 **14**	3	White post, white pylon, black bands; 16.	
8824 *E 0953*	Secca di Mezzo Passo, Isola Maddalena, off SE. head.	41° 12.3´ N 9° 22.8´ E	**Fl.(2)W.** period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	23 **7**	5	ISOLATED DANGER BRB, beacon, topmark; 23.	
8828 *E 0958*	Secca del Palau.	41° 11.8´ N 9° 23.2´ E	**V.Q.(6)+L.Fl.W.** period 10s	26 **8**	5	S. CARDINAL YB, beacon, topmark; 29.	
8829 *E 0958.2*	-Shoal, E. limit.	41° 11.9´ N 9° 23.4´ E	**Fl.Y.** period 5s fl. 0.5s, ec. 4.5s	20 **6**	4	SPECIAL Y, beacon, "X" topmark.	
8832 *E 0988*	Punta Palau.	41° 11.3´ 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 *E 0990*	-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, "X" topmark; 16.	
8834 *E 0990.2*	-Beacon.	41° 10.9´ N 9° 23.3´ E	**V.Q.(9)W.** period 10s	16 **5**	5	W. CARDINAL YBY, beacon, topmark.	**Radar reflector.**
8835 *E 0990.6*	-Shelter mole.	41° 10.8´ N 9° 23.2´ E	**F.G.**	20 **6**	3	Green post; 16.	Private light.
8835.5 *E 0990.4*	Marina, breakwater, head.	41° 10.8´ N 9° 23.2´ E	**F.R.**	20 **6**	3	Red post; 16.	Private light.
8836 *E 0950*	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 *E 0984*	Porto Massimo (Lungo), dike, head.	41° 15.5´ N 9° 25.7´ E	**F.G.**	16 **5**	3	Green post; 13.	Private light.

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			ITALY-WEST COAST AND ADJACENT ISLANDS				
8848 *E 0951*	*Secca Corsara Beacon.*	41° 13.4´ N 9° 20.1´ E	**Q.(6)+L.Fl.W.** period 15s	20 **6**	5	S. CARDINAL YB, buoyant beacon, topmark.	**Radar reflector.**
8852 *E 1392*	-Punta Paratella, island, N. point.	43° 26.4´ N 9° 54.1´ E	**Fl.W.** period 5s fl. 1s, ec. 4s	346 **105**	9	White tower; 16.	Signal station, on summit.
8856 *E 1394*	-Cala Dello Scalo, mole, head.	43° 25.7´ N 9° 54.6´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	26 **8**	4	Red lamppost; 13.	
8860 *E 1396*	-Punta Cala Scirocco, island, SE. point.	43° 25.3´ N 9° 54.0´ E	**Fl.(2)W.** period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	147 **45**	9	White tower; 16.	
	ISOLA CAPRAIA:						
8864 *E 1400*	**-Punta del Ferraione**.	43° 03.0´ N 9° 50.7´ E	**L.Fl.W.** period 6s fl. 2s, ec. 4s	98 **30**	**16**	White tower, dwelling; 39.	Reserve light range 11M.
8872 *E 1401*	--NE. mole, elbow.	43° 03.0´ N 9° 51.0´ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	20 **6**	4	Green post; 13.	Visible 195°-074°.
8876 *E 1403*	--Inner mole, head.	43° 02.7´ N 9° 50.3´ E	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s	23 **7**	4	Red post;13.	
	ISOLA D'ELBA:						
8884 *E 1444*	**-Punta Polveraia.**	42° 47.6´ N 10° 06.7´ E	**L.Fl.(3)W.** period 15s fl. 2s, ec. 2s fl. 2s, ec. 2s fl. 2s, ec. 5s	170 **52**	**16**	White tower, building; 33.	Visible 036°-000°. Reserve light range 11M. **AIS** (MMSI No 992471027).
8888 *E 1408*	-Marciana Marina, mole, head.	42° 48.4´ N 10° 11.9´ E	**Fl.G.** period 4s fl. 1s, ec. 3s	36 **11**	7	Green column, pedestal; 18.	
8890 *E 1409*	-*Secca di Capo Bianco.*	42° 49.5´ N 10° 19.1´ E	**Q.W.**	16 **5**	3	N. CARDINAL BY, buoyant beacon, topmark.	
8892 *E 1410*	-Scoglietto, Portoferraio approach.	42° 49.7´ N 10° 19.8´ E	**Fl.(2)W.** period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	79 **24**	7	Castellated tower, hut; 26.	
	-Portoferraio:						
8896 *E 1412*	**--Forte Stella.**	42° 49.0´ N 10° 20.0´ E	**Fl.(3)W.** period 14s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 7s	207 **63**	**16**	Tower; 82.	Visible 104°-014°. Reserve light range 11M. **AIS** (MMSI No 992471028).
			F.R.	197 **60**	6		Visible 100°-131°.
8900 *E 1415*	--Mole, head.	42° 48.7´ N 10° 19.8´ E	**Fl.R.** period 4s fl. 1s, ec. 3s	23 **7**	3	Metal bracket, wall tower; 23.	Visible 320°-068°
8904 *E 1416.5*	--Pontile G. Massima, head.	42° 48.7´ N 10° 19.4´ E	**Fl.Y.** period 3s fl. 1s, ec. 2s	20 **6**	4	Yellow post; 10.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
	ITALY-WEST COAST AND ADJACENT ISLANDS						
8916 *E 1414*	--Tower Point, NW. angle.	42° 48.7´ N 10° 19.9´ E	**Fl.G.** period 4s fl. 1s, ec. 3s	36 **11**	4	Green post; 23.	
8920 *E 1417*	--N. mole, head.	42° 48.6´ N 10° 19.0´ E	**F.G.**	16 **5**	3	Green post; 10.	Private light.
8924 *E 1417.2*	--S. mole, head.	42° 48.6´ N 10° 19.0´ E	**F.R.**	16 **5**	3	Red post; 10.	Private light.
8928 *E 1424*	--Cavo, N. mole, head.	42° 51.6´ N 10° 25.3´ E	**Fl.G.** period 4s fl. 1s, ec. 3s	20 **6**	4	Green post.	Private light.
8932 *E 1423*	--E. mole, head of pier extension.	42° 51.6´ N 10° 25.5´ E	**2 F.R.** (vert.)	36 **11** 33 **10**	3	Red post; 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° 25.9´ 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**	4	Green post; 23.	
8936 *E 1428*	-Rio Marina, breakwater, head.	42° 48.9´ N 10° 25.9´ E	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s	31 **9**	4	Red post; 23.	
	-Porto Azzurro (Longone):						
8940 *E 1436*	--Pier, head.	42° 45.8´ N 10° 23.9´ E	**Fl.G.** period 5s fl. 1s, ec. 4s	20 **6**	6	Green column; 13.	
8944 *E 1434*	--Punta S. Giovanni.	42° 45.7´ N 10° 23.7´ E	**Fl.R.** period 5s fl. 1s, ec. 4s	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**	Tower, old fort; 20.	Reserve light range 11M. **AIS** (MMSI No 992471025).
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 round tower; 7.	Reserve light range 12M. **AIS** (MMSI No 992471026).
8956 *E 1439*	-Marina di Campo, pier, root.	42° 44.3´ N 10° 14.2´ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	111 **34**	10	White post, yellow building.	
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 post; 20.	Safety distance 40M
8964 *E 1441*	--Pier, head.	42° 44.6´ N 10° 14.3´ E	**F.R.**	23 **7**	3	Red post; 16.	Visible 180°-293°. Locally maintained.
8968 *E 1448*	**Isola Pianosa.**	42° 34.5´ 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, white building; 62.	Reserve light range 10M. **AIS** (MMSI No 992471029).
8972 *E 1450*	-Cala San Giovanni, mole, head.	42° 35.0´ N 10° 06.0´ E	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s	23 **7**	4	Red post; 16.	
8976 *E 1454*	Scoglio d'Africa.	42° 21.0´ N 10° 04.1´ E	**Fl.W.** period 5s fl. 1s, ec. 4s	62 **19**	12	Round stone tower; 52.	
8980 *E 1384*	Secche di Vada, off Capo Cavallo.	43° 19.2´ N 10° 21.9´ E	**Fl.(2)W.** period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	59 **18**	12	Black round tower, red band; 59	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
8984 *E 1388.4*	-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 post, green bands.	
8988 *E 1390*	Porto Baratti.	42° 59.6´ N 10° 29.8´ E	**Fl.W.** period 3s fl. 1s, ec. 2s	246 **75**	9	White framework post, hut; 13.	
8992 *E 1446*	Isola Palmaiola.	42° 52.0´ N 10° 28.5´ E	**Fl.W.** period 5s fl. 1s, ec. 4s	344 **105**	10	White building; 46.	**AIS** (MMSI No 992471024).
8996 *E 1455*	-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 *E 1456*	-Molo Batteria (Mole Foraneo).	42° 55.9´ N 10° 33.3´ E	**Fl.R.** period 5s fl. 1s, ec. 4s	33 **10**	8	Red column, pedestal; 16.	
9004 *E 1458*	-Molo Magona d'italia, at center of head.	42° 55.9´ N 10° 32.7´ E	**2 F.G.R.** (vert.)	23 **7**	3	Green post, red bands; 16.	2 meters apart.
9008 *E 1457*	-Pontile Italsider, head.	42° 56.0´ N 10° 32.9´ E	**4 F.G.** (horiz.)	23 **7**	3	Green posts; 10.	Private light.
9012 *E 1459*	-Darsena Italsider.	42° 56.1´ N 10° 32.6´ E	**2 F.R.** (vert.)	36 **11** 31 **9**	3	Red tower; 28.	Private light.
9014 *E 1456.3*	-Beacon No 3.	42° 55.9´ N 10° 35.2´ E	**Fl.Y.** period 3s fl. 0.5s, ec. 2.5s	16 **5**	4	SPECIAL Y, articulated beacon, "X" topmark.	Beacon No 2 2.9 miles NE. and No 1 3.9 miles NE. show same characteristics. **Radar reflector.**
9016 *E 1460*	Torre del Sale, floating pier, root.	42° 57.1´ N 10° 36.1´ E	**Oc.W.** period 3s lt. 2s, ec. 1s	29 **9**	5	White post; 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 *E 1461*	Follonica, pier head, N. corner.	42° 54.0´ N 10° 46.0´ E	**3 F.R.G.R.** (vert.)	49 **15**	3	Red post, green bands; 30.	A similar light is shown from S. corner of the head, and a F.G. light from middle of pier. 1.5 meters apart. Private light.
9024 *E 1462*	Portiglione.	42° 53.0´ N 10° 47.0´ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	20 **6**	5	Green support.	Private light.
9032 *E 1466*	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 multi-sided tower; 24.	Obscured inside the port.
9036 *E 1466.2*	-Inner mole, head.	42° 48.5´ N 10° 44.2´ E	**Fl.R.** period 2s fl. 0.5s, ec. 1.5s	39 **12**	5	White multi-sided tower, red bands; 22.	Private light.
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 multi-sided 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. 0.5s, ec. 2.5s	26 **8**	8		
9048 *E 1470*	-N. mole, head.	42° 45.6´ N 10° 52.2´ E	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s	26 **8**	8	White tower, red bands; 20.	Safety distance 30M

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			ITALY-WEST COAST AND ADJACENT ISLANDS				
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 tower, 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 square 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 column, pedestal; 16.	Safety distance 15M
9076 *E 1480*	**Punta Lividonia.**	42° 26.8´ N 11° 06.2´ E	**Fl.W.** period 5s fl. 1s, ec. 4s	154 **47**	**16**	White round tower, two-story building; 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, pedestal; 16.	
9088 *E 1481*	-Molo Giuseppe Garibaldi, SE. of port, head.	42° 26.3´ N 11° 07.5´ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	23 **7**	3	Green post.	
	ISOLA DEL GIGLIO:						
9092 *E 1486*	**-Punta Fenaio,** N. point.	42° 23.3´ N 10° 52.8´ E	**Fl.(3)W.** period 15s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 8s	129 **39**	**16**	White octagonal tower, red band, red building, white stripe.	Visible 026°-249°. Reserve light range 12M. **AIS** (MMSI No 992471030).
9096 *E 1488*	-Giglio Castello Marina, E. mole, head.	42° 21.7´ N 10° 55.3´ 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° 21.7´ N 10° 55.2´ 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° 55.2´ 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, white building, red bands; 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° 14.4´ N 11° 06.5´ E	**Fl.W.** period 5s fl. 1s, ec. 4s	200 **61**	13	White tower, red band, red building, white band.	Visible 195°-106°.
	PORT ERCOLE:						
9112 *E 1500*	**-Fort La Rocca.**	42° 23.4´ N 11° 12.7´ E	**L.Fl.W.R.** period 7s fl. 2s, ec. 5s	300 **91**	W. **16** R. 13	White round tower, parapet; 62.	R. 177°-285°, W.-010°. Reserve light range 11/8M. **AIS** (MMSI No 992471032).
9116 *E 1502*	-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; 16.	
9120 *E 1503*	-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, pedestal; 13.	Safety distance 35m.
9124 *E 1504*	-Cala Galera, protective mole, head.	42° 24.2´ N 11° 12.8´ E	**Iso.W.R.** period 2s	34 **10**	W. 10 R. 7	White column, pedestal, red band; 16.	R. 017°-197°, W.-017°. Private light.

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	ITALY-WEST COAST AND ADJACENT ISLANDS						
9128 *E 1504.4*	--Lee mole, head.	42° 24.2´ N 11° 12.7´ E	**Iso.G.** period 2s	34 **10**	6	Green column, pedestal; 16.	Visible 085°-275°. Private light.
9132 *E 1508*	**Monte Cappuccini.**	42° 05.9´ N 11° 49.0´ E	**Fl.(2)W.** period 10s fl. 0.3s, ec. 3s fl. 0.3s, ec. 6.4s	410 **125**	**24**	White tower. two-story building; 98.	Visible 344°-180°. Reserve light range 18M. **AIS** (MMSI No 992471033).
9136 *E 1506*	Torre Valdaliga, W. pier, head.	42° 07.3´ N 11° 45.8´ 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 *E 1505.2*	-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	Yellow post.	Private light.
9137.5 *E 1505*	-Torrino intermedio.	42° 07.5´ N 11° 45.3´ E	**Fl.Y.** period 3s fl. 1s, ec. 2s	20 **6**	5	Yellow post.	Private light.
9138 *E 1506.2*	-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.
9138.5 *E 1506.5*	Darsena Energetica Grandi masse, inner quay.	42° 07.1´ N 11° 45.9´ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	13 **4**	3	Green post.	Private light.
	CIVITAVECCHIA:						
9140 *E 1510*	-Entrance, W.	42° 06.5´ N 11° 45.5´ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	39 **12**	7		Private light.
9140.1 *E 1509.55*	--E.	42° 06.6´ N 11° 45.7´ E	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s	13 **4**	5		Private light.
9141 *E 1509.5*	-Container Terminal.	42° 06.4´ N 11° 46.1´ E	**Fl R.** period 3s fl. 0.5s, ec. 2.5s	36 **11**	3	Post.	Private light.
9148 *E 1514*	-Banchina Campagnia Rona, NW. of Molo Amerigo Vespucci, head.	42° 05.7´ N 11° 46.9´ E	**Fl.R.** period 3s fl. 1s, ec. 2s	30 **9**	8	Red column, pedestal.	
9152 *E 1513*	-Banchina XIV Maggio, mole, head.	42° 05.9´ N 11° 46.8´ E	**F.R.**	26 **8**	3	Red post.	
9153 *E 1518.2*	-Molo Cialdi.	42° 05.5´ N 11° 47.2´ E	**F.R.**	26 **8**	3	Red post.	
9154 *E 1518.5*	Riva di Traiano, outer mole, head.	42° 04.0´ N 11° 48.6´ E	**Fl.G.** period 5s fl. 1.5s, ec. 3.5s	33 **10**	6	Green post; 16.	2 F.R. (vert.) shown on inner mole. Private light.
9154.5 *E 1518.7*	-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 light.
9156 *E 1518*	-Molo Lazaretto, head.	42° 05.6´ N 11° 47.1´ E	**F.R.**	26 **8**	3	Red post.	
9160 *E 1519*	Santa Marinella, on the outer mole.	42° 02.1´ N 11° 52.4´ E	**2 F.R.** (vert.)	23 **7** 19 **6**	3	Red post; 13.	Private light.
9164 *E 1519.4*	-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.

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	FIUMICINO:						
9168 *E 1524*	-N. mole, head.	41° 46.3´ N 12° 13.1´ E	**Fl.R.** period 3s fl. 1s, ec. 2s	33 **10**	7	Pedestal, red lantern; 20.	Safety distance 40m.
9172 *E 1526.3*	-S. mole, 60 meters from head.	41° 46.3´ N 12° 12.9´ E	**Fl.G.** period 3s fl. 1s, ec. 2s	33 **10**	8	Pedestal, green lantern; 16.	
9180 *E 1526*	--At root.	41° 46.2´ N 12° 13.3´ 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 *E 7053*	-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 *E 7054*	--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 *E 1538*	**-Cape d'Anzio.**	41° 26.8´ 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**	White tower, building; 69.	Visible 255°-155°. **AIS** (MMSI No 992471034). Reserve light range 18M.
9196 *E 1540.5*	-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 *E 1541*	-Beacon.	41° 26.8´ N 12° 38.3´ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	18 **5**	4	STARBOARD (A) G, beacon, topmark; 20.	
9204 *E 1541.3*	Molo Sottoflutto, head.	41° 27.2´ N 12° 39.6´ E	**Fl.R.** period 5s fl. 1.5s, ec. 3.5s	36 **11**	8	Red tower.	Private light.
9208 *E 1541.2*	-Molo Sopraflutto, head.	41° 27.2´ N 12° 39.6´ E	**Fl.G** period 5s fl. 1.5s, ec. 3.5s	36 **11**	8	Green tower.	Private light.
9212 *E 1541.6*	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 *E 1577*	Isola Zannone, on Capo Negro.	40° 58.4´ N 13° 03.3´ E	**Fl.(3)W.** period 10s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	121 **37**	11	White tower, building; 43.	Visible 060°-280°.
9220 *E 1576*	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°.
	ISOLE DI PONZIA:						
9224 *E 1588*	**-Punta della Guardia.**	40° 52.7´ 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, two-story building, red and white bands; 56.	Visible 225°-155°, except where obscured by Isola Palmarola (118°-136°). **AIS** (MMSI No 992471036). Reserve light range 10M.
			Fl.R. period 5s fl. 1s, ec. 4s	315 **96**	8	7.	Visible 235°-265°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
	ITALY-WEST COAST AND ADJACENT ISLANDS						
9228 *E 1580*	**Rotonda della Madonna, Porto di Ponza,** entrance, S. side.	40° 53.7´ N 12° 58.2´ 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, three-story dwelling; 59.	Visible 206°-023° and 070°-080° to aid anchoring at Chiaia di Luna. Reserve light range 11M. F.R. on radio antenna 1.2 miles NNW.
			F.R.	180 **55**	9		Visible 301°-341°.
9232 *E 1584*	-Porto di Ponza, mole, head.	40° 53.7´ N 12° 57.9´ E	**Fl.Y.** period 3s fl. 1s, ec. 2s	39 **12**	9	Red tower; 39.	
9236 *E 1583*	-Breakwater, head.	40° 53.8´ N 12° 57.9´ E	**Fl.R.** period 3s fl. 1s, ec. 2s	26 **8**	8	Red post; 23.	Safety distance 25m.
9240 *E 1582*	Scoglio Ravia.	40° 54.0´ N 12° 57.9´ E	**Fl.G.** period 3s fl. 1s, ec. 2s	85 **26**	6	Green square hut; 10.	
9244 *E 1542*	**Capo Circeo.**	41° 13.3´ N 13° 04.1´ 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°. **AIS** (MMSI No 992471035). Reserve light range 18M.
	TERRACINA:						
9248 *E 1550*	-Mole Gregoriano, head.	41° 17.0´ N 13° 15.5´ E	**Fl.R.** period 5s fl. 1s, ec. 4s	39 **12**	9	Red lantern, base; 30.	Safety distance 50m.
9252 *E 1551*	-Outer mole, head.	41° 17.0´ N 13° 15.6´ E	**Fl.G.** period 5s fl. 1s, ec. 4s	26 **8**	6	Green post; 20.	Safety distance 25m.
9256 *E 1552*	-Canal entrance, S. side.	41° 17.0´ N 13° 16.0´ E	**F.R.**	26 **8**	3	Red post; 20.	
9260 *E 1554*	- -N. side.	41° 17.0´ N 13° 16.0´ E	**F.G.**	26 **8**	3	Green post; 20.	
	GAETA:						
9264 *E 1558*	**-Monte Orlando.**	41° 12.4´ 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.	**AIS** (MMSI No 992471038). Reserve light range 18M.
9268 *E 1560*	-Punta dello Stenardo, S. entrance of port.	41° 12.6´ N 13° 35.4´ E	**Fl.(2)R.** period 10s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	66 **20**	7	Red round tower; 20.	
9272 *E 1562*	-Punta S. Antonio, mole, head.	41° 13.0´ N 13° 34.7´ E	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s	33 **10**	6	Pedestal, red lantern; 16.	2 F.R. (vert.) and 2 F.G. (vert.) shown inside Porto San Antonio.
	PORTO SALVO:						
9276 *E 1564*	-Mole, head.	41° 13.2´ N 13° 34.4´ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	27 **8**	7	Pedestal, green lantern; 16.	
9280 *E 1565*	-Front range, about 307 meters 269° from head of mole.	41° 13.4´ N 13° 34.3´ E	**Q.R.**				Private light.
9284 *E 1565.1*	- -Rear, 190 meters 269° from front.	41° 13.4´ N 13° 34.2´ E	**F.R.**				Private light.
9288 *E 1566*	-Oil pier, head.	41° 13.4´ N 13° 34.5´ E	**2 F.R.** (vert.)	36 **11**	1	Post; 23.	1 meter apart. Private light.

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	ITALY-WEST COAST AND ADJACENT ISLANDS						
9294 *E 1568*	-Banchino Salvo d'Acquisto, mole, head.	41° 13.9′ N 13° 34.4′ E	**Fl.(2)G.** period 10s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	33 **10**	7	Green lantern, base; 23.	Safety distance 30m.
9296 *E 1570*	Porticciolo di Capossele, entrance, W. side.	41° 15.0′ N 13° 36.0′ E	**F.R.**	13 **4**	2	Red post; 7.	Private light.
9300 *E 1570.2*	-Entrance, E. side.	41° 15.0′ N 13° 35.9′ E	**F.G.**	13 **4**	2	Green post; 7.	Private light.
9304 *E 1573*	Formia, breakwater, near outer head.	41° 15.2′ N 13° 36.9′ E	**Fl.W.R.** period 3s fl. 1s, ec. 2s	36 **11**	W. 11 R. 8	Red lantern, base; 23.	W. 252°-072°, R.-252°. Safety distance 30m.
9308 *E 1572*	-E. breakwater, head.	41° 15.3′ N 13° 36.8′ E	**Fl.G.** period 3s fl. 1s, ec. 2s	30 **9**	7	Pedestal, green lantern; 16.	Safety distance 30m.
9310 *E 1574*	Scauri, breakwater, head.	41° 15.1′ N 13° 42.1′ E	**Fl.G.** period 5s fl. 1s, ec. 4s	16 **5**	4	Green post; 10.	Private light.
9312 *E 1575.5*	Coppola Pinetamare Marina.	40° 58.4′ N 13° 58.4′ E	**Fl.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 *E 1592*	**-Porto Nicolo.**	40° 47.8′ N 13° 26.1′ E	**Fl.W.** period 5s fl. 1s, ec. 4s	69 **21**	**15**	White round tower, building; 52.	Visible 158°-022°, obscured 286°-305° over Isola Santo Stefano. **AIS** (MMSI No 992471037). Reserve light range 11M.
9324 *E 1594*	-Cala Rossano, outer breakwater, head.	40° 48.0′ N 13° 26.0′ E	**Fl.R.** period 5s fl. 1s, ec. 4s	26 **8**	5	Pedestal, red lantern; 16.	Private light.
9326 *E 1595*	--Inner breakwater, 15 meters from head.	40° 48.0′ N 13° 26.1′ E	**Fl.G.** period 5s fl. 1s, ec. 4s		4	STARBOARD (A) G, post, topmark; 16.	Private light.
	ISOLA D'ISCHIA:						
9328 *E 1598*	**-Punta Imperatore.**	40° 42.7′ N 13° 51.2′ E	**Fl.(2)W.** period 15s fl. 0.2s, ec. 3.6s fl. 0.2s, ec. 11s	538 **164**	**22**	White tower, two-story building; 43.	Visible 316°-190°. **AIS** (MMSI No 992471040). Reserve light range 18M.
9332 *E 1600*	-Forio, W. mole, head.	40° 44.5′ N 13° 51.5′ E	**Fl.R.G.** period 3s fl. 0.5s, ec. 2.5s	20 **6**	5	Pedestal, green lantern.	G. 110°-005°, R.-110°. Safety distance 30m. Private light.
9333 *E 1600.5*	--E. mole, head.	40° 44.5′ N 13° 51.5′ E	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s	20 **6**	2	Red post; 13.	Safety distance 50m. Private light.
9340 *E 1606*	-Casamiccola, 20 meters from head of outer mole.	40° 45.1′ N 13° 54.6′ E	**Fl.G.** period 4s	23 **7**	5	Green post.	Private light.
9341 *E 1606.2*	--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 *E 1608*	**--Bagno,** mole, head.	40° 44.9′ N 13° 56.5′ 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.
9348 *E 1610*	--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.	

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	ITALY-WEST COAST AND ADJACENT ISLANDS						
9352 *E 1612*	- - -E. side of entrance.	40° 44.8´ N 13° 56.5´ E	**Fl.R.** period 3s fl. 1s, ec. 2s	14 **4**	8	Red tower; 10.	Visible 196°-217°.
9356 *E 1614*	**-Castello d' Ischia.**	40° 43.9´ N 13° 57.9´ E	**L.Fl.W.** period 6s fl. 2s, ec. 4s	269 **82**	**16**	Terrace, castle; 10.	Visible 119°-001°. **AIS** (MMSI No 992471039). Reserve light range 12M.
	ISOLA DI PROCIDA:						
9360 *E 1614.3*	-Secche Formiche di Vivara.	40° 44.6´ N 13° 58.6´ E	**Q.(9)W.** period 15s	16 **5**	5	W. CARDINAL YBY, articulated beacon, topmark; 20.	**Radar reflector.**
9362 *E 1615*	-Porticciolo della Chiaiolella, outer mole.	40° 44.8´ N 14° 00.4´ E	**2 F.G.** (vert.)	30 **9**	4	Green post; 23.	2 meters apart. Private light.
9363 *E 1615.2*	- Molo Ponente, head.	40° 44.9´ N 14° 00.3´ E	**2 F.R.** (vert.)	30 **9**	4	Red post; 23.	Safety distance 20M. 2 meters apart. Private light.
9364 *E 1618*	-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, hut; 10.	Visible 076°-287°.
9368 *E 1616*	-Procida, mole, head.	40° 46.2´ N 14° 01.7´ E	**Fl.G.** period 3s fl. 1s, ec. 2s	33 **10**	8	Green lantern, base; 23.	Safety distance 30m.
9372 *E 1617*	-E. breakwater, head.	40° 46.1´ N 14° 01.7´ E	**Fl.R.** period 3s fl. 1s, ec. 2s	33 **10**	8	Red lantern, base; 23.	
9376 *E 1619*	-Secca del Torrione, S. extremity of shoal.	40° 46.6´ 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 *E 1620*	**-Capo Miseno.**	40° 46.7´ N 14° 05.3´ 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°. **AIS** (MMSI No 992471041). Reserve light range 12M.
9384 *E 1622*	-Baia, Fortino Tenaglia.	40° 48.7´ N 14° 04.9´ E	**Iso.R.** period 4s	43 **13**	8	Red tower; 26.	
9388 *E 1623*	-Arco Felice, Pontile Pirelli, W. corner.	40° 49.7´ N 14° 06.2´ E	**F.Y.**	26 **8**	4	Yellow post; 20.	F.Y. 4M light marks E. corner. Private light.
9390 *E 1625*	-Molo Caligoliano, breakwater, head.	40° 49.4´ N 14° 06.6´ E	**Iso.G.** period 4s	43 **13**	6	Green tower, white building; 32.	
9400 *E 1628.4*	-Isola de Nisida, Molo Dandolo, spur.	40° 48.0´ N 14° 09.8´ E	**Fl.G.** period 3s fl. 1s, ec. 2s	46 **14**	7	Green post; 16.	
9404 *E 1626*	- -Pontile Ilva Nord, outer corner.	40° 48.5´ N 14° 09.5´ E	**F.R.**	26 **8**	3		A F.R. light is shown from the opposite corner. Private light.
	-Bagnoli:						
9408 *E 1626.2*	- -Mole.	40° 48.5´ N 14° 09.9´ E	**F.G.**	20 **6**	3		A F.G. is shown from the opposite corner. Private light.
9412 *E 1626.4*	- -Pontile Ilva Sud, outer corner.	40° 48.3´ N 14° 10.0´ E	**F.R.**	13 **4**	3		A F.R. light is shown from the opposite corner. Private light.
9416 *E 1626.6*	- -Pontile Montecantini, N. corner.	40° 48.3´ N 14° 10.2´ E	**F.R.**	10 **3**	3	Red and green post.	A F.G. light is shown from the S. corner. Private light.

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	ITALY-WEST COAST AND ADJACENT ISLANDS						
9417 *E 1628.5*	-La Gaiola.	40° 47.7′ N 14° 11.0′ E	**Q.Y.**	33 **10**	4	SPECIAL Y, post, "X" topmark; 16.	Private light.
9418 *E 1628.6*	-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, "X" topmark; 16.	Private light.
9420 *E 1628.7*	-Secca della Cavallara, shoal, S. extremity.	40° 47.1′ 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 *E 1629*	-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	Pedestal, red lantern; 16.	Safety distance 20m.
9428 *E 1629.4*	--E. breakwater, head.	40° 49.7′ N 14° 13.4′ E	**Fl.G.** period 5s fl. 1s, ec. 4s	26 **8**	7	Pedestal, green lantern; 16.	
9432 *E 1631*	-Porticciolo di Santa Lucia (Santa Lucia Harbor), N. side of entrance, angle of quay.	40° 49.8′ N 14° 15.0′ E	**Fl.G.** period 3s fl. 1s, ec. 2s	23 **7**	4	Green lantern, base; 16.	
9436 *E 1632*	--S. side of entrance, head of detached breakwater.	40° 49.8′ N 14° 15.1′ E	**Fl.R.** period 3s fl. 1s, ec. 2s	30 **9**	5	Red lantern, base; 16.	
9440 *E 1636*	-Porticciolo del Molosiglio, S. side of entrance, mole, head.	40° 50.0′ N 14° 15.3′ E	**Fl.R.** period 5s fl. 1s, ec. 4s	33 **10**	8	Red lantern, base; 20.	
9444 *E 1634*	--N. mole, head.	40° 50.1′ N 14° 15.3′ E	**Fl.G.** period 5s fl. 1s, ec. 4s	30 **9**	3	Pedestal, green lantern; 20.	
9452 *E 1652*	-Diga Foranea Emanuele Filiberto Duca D′Aosta, E. head.	40° 49.6′ N 14° 18.0′ E	**Fl.R.** period 4s fl. 1s, ec. 3s	39 **12**	5	Pedestal, red lantern; 16.	Channel marked by 2 Fl.G. and 2 Fl.R. articulated lights. Safety distance 20m.
9456 *E 1653*	--Bend, near E. head.	40° 50.0′ N 14° 17.4′ E	**Fl.(2)R.** period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	23 **7**	4	Pedestal, red lantern; 16.	Visible 122°-308°.
9460 *E 1654*	--(Angle), W. head.	40° 50.2′ N 14° 16.8′ E	**Fl.R.G.** period 4s fl. 1s, ec. 3s	23 **7**	5	Green pedestal, red lantern; 16.	G. 032°-175°, R.-298°.
9464 *E 1648*	-Antemurale Thaon de Revel, S. head.	40° 50.0′ N 14° 16.6′ E	**Fl.G.** period 4s fl. 1s, ec. 3s	59 **18**	9	Green round tower; 39.	
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		(3cm).
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° 50.0′ N 14° 16.3′ E	**2 F.R.** (vert.)	26 **8**	3	Stone structure.	2 meters apart.
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.	

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	ITALY-WEST COAST AND ADJACENT ISLANDS						
9484 *E 1662*	-Drydock No 3, S. corner.	40° 50.3´ N 14° 16.3´ E	**2 F.R.** (vert.)	30 **9**	3	Post; 26.	Safety distance 100m. F.R. on centre of caisson at S. entrance. 1 meter apart.
9488 *E 1664*	Darsena Armando Diaz, spur, head.	40° 50.4´ N 14° 16.5´ 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		1 meter apart.
9500 *E 1667*	-Pontile Vigliena, SE. corner.	40° 50.1´ N 14° 17.4´ E	**F.G.**	20 **6**	2	Green post; 13.	
9508 *E 1669*	-Darseng Progresso, SE. corner.	40° 49.9´ N 14° 17.8´ E	**Fl.G.** period 3s fl. 1s, ec. 2s	33 **10**	8	Pedestal, green lantern; 16.	
9516 *E 1678*	Portici, head of the quay, inner side of breakwater.	40° 48.6´ N 14° 20.0´ 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° 20.0´ E	**Fl.G.** period 3s fl. 1s, ec. 2s		3	Green post, base; 20.	
9524 *E 1680*	Torre del Greco, at foot of Mt. Vesuvius, mole, head.	40° 47.0´ N 14° 21.7´ E	**Fl.R.** period 5s fl. 1s, ec. 4s	39 **12**	9	Pedestal, red lantern; 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	Pedestal, red lantern; 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° 27.6´ E	**F.R.**			Red post.	Private light.
9539.1 *E 1683*	- -E. breakwater, head.	40° 44.5´ N 14° 27.5´ E	**F.G.**			Green post.	Private light.
	CASTELLAMMARE DI STABIA:						
9539.2 *E 1688.5*	-Scoglio Rovigliano.	40° 43.7´ N 14° 27.9´ E	**Fl.(5)Y.** period 20s	36 **11**	4	SPECIAL Y, beacon, "X" topmark.	Private light.
9539.5 *E 1688*	-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, "X" topmark.	Marks end of submarine pipeline. Private light.
9540 *E 1692*	-Main, 1 km. 187° from head of mole.	40° 41.3´ N 14° 28.2´ E	**Fl.(2)W.** period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	374 **114**	**16**	White tower, white three-story building; 52.	Visible 095°-223°. **AIS** (MMSI No 992471043). Reserve light range 12M.
9544 *E 1693*	-W. mole, head.	40° 42.0´ N 14° 28.4´ E	**Fl.G.** period 5s fl. 1s, ec. 4s	39 **12**	8	Pedestal, green lantern; 16.	Safety distance 50m.
9548 *E 1694*	-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 *E 1692.5*	-Pozzano.	40° 41.3´ N 14° 27.1´ E	**2 F.R.G.** (vert.)	23 **7**	3	Green post, red bands.	2 meters apart. Private light.

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	ITALY-WEST COAST AND ADJACENT ISLANDS						
9552 *E 1695*	Marine di Equa, 30 meters from breakwater, head.	40° 39.7′ N 14° 25.0′ E	**2 F.G.** (vert.)	26 **8**	4	Green post; 20.	2 F.R. (vert.) marks opposite breakwater head. 2 meters apart. Private light.
9554 *E 1695.6*	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 *E 1696*	Marina di Cassano, mole, head.	40° 38.4′ N 14° 24.0′ E	**F.G.**	23 **7**	3	Green post; 20.	Safety distance 20m.
9560 *E 1698*	Sorrento, breakwater, head.	40° 37.9′ N 14° 22.7′ E	**Fl.G.** period 3s fl. 1s, ec. 2s	31 **9**	5	Pedestal, green lantern; 16.	Private light.
9564 *E 1700*	Scoglio Vervece.	40° 37.1′ N 14° 19.5′ E	**Fl.(2)W.** period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	49 **15**	7	ISOLATED DANGER BRB, structure, topmark.	
9568 *E 1702*	Punta Campanella.	40° 34.2′ N 14° 19.5′ E	**Fl.W.** period 5s fl. 1s, ec. 4s	213 **65**	10	Black tower, white bands; 59.	Visible 270°-166°, obscured by Isola di Capri 066°-089°.
	ISOLA DI CAPRI:						
9572 *E 1706*	**-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, two-story building; 92.	Visible 265°-175°. **AIS** (MMSI No 992471044). Reserve light range 18M.
9576 *E 1708*	-Il Capo, island, NE. point.	40° 33.6′ N 14° 15.8′ E	**Fl.(2)W.** period 10s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	39 **12**	7	Pedestal, white lantern; 16.	Visible 110°-335°.
9580 *E 1710*	-Marina Grande, breakwater, head.	40° 33.5′ N 14° 14.6′ E	**Fl.G.** period 3s fl. 1s, ec. 2s	36 **11**	8	Pedestal, green lantern; 16.	
9584 *E 1711*	- -Molo di Sopraflutto, head.	40° 33.4′ N 14° 14.7′ E	**Fl.R.** period 3s fl. 1s, ec. 2s	30 **9**	8	Pedestal, red lantern; 16.	Safety distance 50m.
9588 *E 1716*	Isolotti Li Galli, N. extremity.	40° 35.0′ N 14° 26.0′ E	**Fl.W.** period 5s fl. 1s, ec. 4s	220 **67**	6	White square tower; 39.	
	AMALFI:						
9592 *E 1718*	-W. mole, head.	40° 37.9′ N 14° 36.0′ E	**Fl.R.** period 5s fl. 1s, ec. 4s	43 **13**	8	Pedestal, red lantern; 16.	
9596 *E 1720*	-Stone jetty, harbor, N. side.	40° 37.9′ N 14° 36.1′ E	**2 F.G.** (vert.)	26 **8**	3	Green post; 20.	1 meter apart.
9600 *E 1722*	**Capo d'Orso**.	40° 38.0′ N 14° 40.8′ E	**Fl.(3)W.** period 15s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 8s	217 **66**	**16**	White terrace, white two-story building, red bands; 16.	Visible 263°-093°. **AIS** (MMSI No 992471045). Reserve light range 12M.
	SALERNO:						
9604 *E 1730*	-Outer elbow.	40° 40.3′ N 14° 45.3′ E	**Fl.W.** period 3s fl. 1s, ec. 2s	43 **13**	11	Pedestal, white lantern; 16.	
9612 *E 1730.2*	-Molo di Levante, head.	40° 39.8′ N 14° 44.6′ E	**Fl.G.** period 5s fl. 1s, ec. 4s	42 **13**	9	Hut, green lantern; 30.	Safety distance 50m.
	RACON		**C(– • – •)** period 30s		6		(3 & 10cm).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
	ITALY-WEST COAST AND ADJACENT ISLANDS						
9616 *E 1730.4*	-Molo di Ponente, head.	40° 40.0´ N 14° 44.8´ E	**Fl.R.** period 5s fl. 1s, ec. 4s	43 **13**	8	Hut, red lantern; 30.	Safety distance 25m.
9620 *E 1733*	-Old port, Banchina Manfredi, S. corner.	40° 40.3´ N 14° 45.2´ E	**2 F.G.** (vert.)	26 **8**	3	Green post; 16.	2 meters apart.
9624 *E 1733.5*	-Secca Manfredi.	40° 40.5´ N 14° 45.3´ E	**Fl.G.** period 6s fl. 1s, ec. 5s	23 **7**	2	Green post; 13.	Private light.
9626 *E 1734*	-Port Masuccio Salernitano, outer mole, head.	40° 40.3´ N 14° 45.9´ E	**2 F.G.** (vert.)	20 **6**	3	Green post; 13.	1 meter apart. Private light.
9627 *E 1734.3*	- -Inner mole, head.	40° 40.4´ N 14° 46.0´ E	**2 F.R.** (vert.)	20 **6**	3	Red post; 13.	Safety distance 30m. 1 meter apart. Private light.
9628 *E 1737*	San Marco di Castellabate, W. mole.	40° 16.2´ N 14° 56.1´ E	**Fl.G.** period 4s fl. 1s, ec. 3s	23 **7**	2	Green post, base; 20.	Private light.
9632 *E 1735*	**Agropoli.**	40° 21.3´ N 14° 59.2´ E	**Fl.(2)W.** period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	138 **42**	**16**	Tower, hut; 33.	**AIS** (MMSI No 992471046). Reserve light range 12M.
9636 *E 1738*	Isolotto Licosa, near Punta Licosa.	40° 15.1´ N 14° 54.0´ E	**Fl.(2)W.** period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	43 **13**	11	White round tower; 30.	
9640 *E 1739*	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 *E 1739.2*	-Inner mole, head.	40° 10.5´ N 15° 01.6´ E	**2 F.G.** (vert.)	16 **5**	3	Green post.	1 meter apart. Private light.
9648 *E 1739.4*	-500 meters E. of outer mole, head.	40° 10.5´ N 15° 01.7´ E	**Iso.R.G.** period 2s		4	Red post.	R. 294°-062°, G.-083°. Private light.
9650 *E 1739.7*	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 *E 1739.8*	-Inner Mole, outer arm.	40° 10.5´ N 15° 06.5´ E	**Fl.R.** period 3s	26 **8**	5	Red post.	Private light.
9652 *E 1740*	**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 tower, two-story building; 46.	Visible 286°-132°. **AIS** (MMSI No 992471047). Reserve light range 18M.
9656 *E 1741*	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 *E 1742*	**Scario.**	40° 02.8´ N 15° 29.5´ 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 tower, two-story building; 39.	Obscured when bearing more than 025°. **AIS** (MMSI No 992471048). Reserve light range 12M.
9661 *E 1743*	-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 *E 1743.2*	-Inner mole, head.	40° 02.9´ N 15° 29.5´ E	**F.G.**	16 **5**	3	Green post.	Safety distance 40m. Private light.
9664 *E 1746*	Sapri (Pisacane), on Punta del Fortino.	40° 04.1´ N 15° 37.3´ 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 *E 1747*	Maratea, outer mole, head.	39° 59.2´ N 15° 42.7´ E	**Fl.R.** period 3s fl. 1s, ec. 2s	26 **8**	6	Red post; 10.	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				
9672 *E 1747.3*	-Lee mole, head.	39° 59.2′ N 15° 42.6′ E	**F.G.**	24 **7**	4	Green post; 13.	Private light.
9674 *E 1747.2*	-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 *E 1750*	**Capo Bonifati.**	39° 32.6′ N 15° 53.0′ E	**Fl.(2)W.** period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	207 **63**	**15**	White tower, hut; 23.	**AIS** (MMSI No 992471049). Reserve light range 11M.
9680 *E 1752*	**Paola.**	39° 21.6′ 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°. **AIS** (MMSI No 992471050). Reserve light range 11M.
	GOLFO DI SANT EUFEMIA:						
9684 *E 1756*	**-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, building; 82.	Visible 280°-155°. **AIS** (MMSI No 992471051). Reserve light range 12M.
9688 *E 1756.5*	-Turina, pier, head.	38° 51.1′ N 16° 13.6′ E	**2 F.R.G.** (vert.)	36 **11**	4	Red post, green bands.	1 meter apart. Private light.
9692 *E 1757*	**-Vibo Valentia Marina,** N. mole, head.	38° 43.4′ N 16° 07.7′ 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 *E 1758*	--S. mole, head.	38° 43.2′ N 16° 07.7′ E	**Fl.R.** period 5s fl. 1s, ec. 4s	23 **7**	7	Pedestal, red lantern; 16.	
9700 *E 1760*	-Tropea, mole, head.	38° 40.8′ N 15° 54.2′ E	**2 F.G.** (vert.)	46 **14**	4	Green post; 39.	1 meter apart. 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 tower, building; 26.	Obscured in the Golfo di Santa Eufemia when bearing E. of 205°. Partially visible 208°-215°. **AIS** (MMSI No 992471052). 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°. 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, beacon, "X" topmark.	Marks SW. limit of prohibited area. Private light.
9705.1 *E 1764.1*	--Rear, 20 meters 175° 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, beacon, "X" topmark.	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						
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, beacon, "X" topmark.	Marks NE. limit of prohibited area. Private light.
9706.7 *E 1764.31*	--Rear, 142° 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, beacon, "X" topmark.	Private light.
9708 *E 1766*	**-Scilla.**	38° 15.4´ N 15° 42.9´ E	**Fl.W.** period 5s fl. 0.3s, ec. 4.7s	236 **72**	**22**	Round tower; 20.	**AIS** (MMSI No 992471053). 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.Or.** (vert.)	1188 **362**		Pylon, tower; 656.	5 F.R. lights arranged vertically along tower. Private light.
9720 *E 1770*	**-Punta Pezzo.**	38° 13.9´ 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°. **AIS** (MMSI No 992471054). Reserve light range 13M.
9724 *E 1772*	-Villa San Giovanni, mole, head.	38° 13.1´ N 15° 37.8´ E	**Fl.G.** period 3s fl. 1s, ec. 2s	45 **14**	7	Green tower, pedestal; 33.	
9728 *E 1773*	--Molo Sottoflutto, head.	38° 13.2´ N 15° 38.0´ E	**Fl.R.** period 3s fl. 1s, ec. 2s	23 **7**	6	Red lantern; 13.	
9732 *E 1773.6*	--Ferryboat, mole, head.	38° 13.4´ N 15° 37.9´ E	**Fl.G.** period 4s fl. 1s, ec. 3s	26 **8**	4	Green post; 20.	Private light.
9736 *E 1776*	-Reggio di Calabria, breakwater, head.	38° 07.7´ N 15° 39.0´ E	**Iso.G.** period 2s	46 **14**	7	Pedestal, green lantern; 33.	
9740 *E 1777*	-Molo di Sottoflutto, head.	38° 07.6´ N 15° 39.1´ E	**Iso.R.** period 2s	36 **11**	6	Red lantern.	
9744 *E 1780*	**-Capo dell'Armi.**	37° 57.4´ N 15° 40.8´ E	**Fl.(2)W.** period 10s fl. 0.3s, ec. 1.9s fl. 0.3s, ec. 7.5s	312 **95**	**22**	White tower, building; 39.	Visible 295°-148°. **AIS** (MMSI No 992471086). Reserve light range 18M.
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, 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.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
	SICILIA (SICILY) AND ADJACENT ISLANDS (I.)						
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 tower, black bands; 138.	**AIS** (MMSI No 992471056). Reserve light range 17M.
9772 *E 1816*	-Punta Secca, peninsula, NE. corner.	38° 11.8′ 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° 33.8′ E	**Fl.(2)R.** period 5s fl. 1s, ec. 1s fl. 1s, ec. 2s	52 **16**	8	Red lantern; 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.
9782 *E 1820.5*	-Inner mole, head.	38° 08.0′ N 15° 31.5′ E	**Fl.G.** period 4s fl. 1s, ec. 3s	16 **5**	8	Green post; 16.	Private light.
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 building; 121.	Visible 112°30′-069°. **AIS** (MMSI No 992471055). Reserve light range 13M.
			Iso.R. period 2s	72 **22**	9		Visible 100°-127° over Rascolmo Bank.
	RACON		**M(– –)**		10		(3 & 10cm).
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, beacon, "X" topmark.	Marks E. limit of prohibited area. Private light.
9785.1 *E 1810.1*	- -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, beacon, "X" topmark.	Private light.
9786 *E 1810.2*	-Casabianca Range, front.	38° 16.6′ N 15° 35.5′ E	**Fl.(2)Y.** period 4s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2s		2	SPECIAL Y, beacon, "X" topmark.	Marks W. limit of prohibited area. Private light.
9786.1 *E 1810.21*	- -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, beacon, "X" topmark.	Private light.
9788 *E 1809*	-AVIATION LIGHT, cable tower, S. of Capo Peloro.	38° 15.9′ N 15° 39.1′ E	**2 F.G.Or.** (vert.)	764 **233**		Pylon, tower; 656.	5 F.R. lights arranged vertically along tower. Private light.
9792 *E 2046*	**Capo Rasocolmo.**	38° 17.7′ N 15° 31.1′ E	**Fl.(3)W.** period 10s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	279 **85**	**15**	White building; 43.	Visible 280°-255°. Reserve light range 9M. **AIS** (MMSI No 992471084).
9796 *E 2042*	**Capo di Milazzo.**	38° 16.2′ N 15° 13.8′ E	**L.Fl.W.** period 6s fl. 2s, ec. 4s	295 **90**	**16**	White tower; 33.	Reserve light range 12M. **AIS** (MMSI No 992471083).
9800 *E 2044*	Milazzo, N. mole, head.	38° 13.0′ N 15° 15.0′ E	**L.Fl.G.** period 5s fl. 2s, ec. 3s	40 **12**	7	Pedestal, green lantern; 20.	
9804 *E 2045.4*	-Harbor platform.	38° 12.5′ N 15° 16.9′ E	**Fl.Y.** period 3s fl. 0.5s, ec. 2.5s	36 **11**	3	SPECIAL Y, platform, "X" topmark.	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.)						
9808 *E 2044.2*	-S. mole, head.	38° 12.9´ N 15° 14.8´ E	**L.Fl.R.** period 5s fl. 2s, ec. 3s	39 **12**	6	Pedestal, red lantern; 16.	Safety distance 30m.
9812 *E 2044.4*	-Pontile Etoile, head.	38° 13.1´ N 15° 14.5´ E	**Fl.Y.** period 3s fl. 1s, ec. 2s	23 **7**	3	Yellow post; 13.	2 F.R. (vert.) shown on pier 80 meters SSE.
9816 *E 2045*	-Oil Pier No 1, head.	38° 12.8´ N 15° 15.9´ E	**2 F.G.** (vert.)	54 **16**	5	Green dolphin.	2 F.G.R. (vert.) 5M shown from Pier No 2, close E. 2 meters apart. Private light.
9820 *E 2045.3*	-Pier, head.	38° 12.7´ N 15° 16.5´ E	**2 F.R.** (vert.)	39 **12**	5	Red post, dolphin.	2 meters apart. Private light.
	ISOLE EOLIE:						
9824 *E 1786*	**-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, two-story building; 102.	Visible 251°-093°. Reserve light range 12M.
9825 *E 1786.3*	--Punta Nere.	38° 24.8´ N 14° 58.0´ E	**Fl.Y.** period 3s fl. 0.5s, ec. 2.5s	30 **9**	3	Tower, base; 13.	Visible 176°-285°. Private light.
9826 *E 1786.5*	--Port Levanto, pier, head.	38° 24.9´ N 14° 57.7´ E	**2 F.G.** (vert.)	23 **7**	3	Green post; 16.	Private light.
	-Isola Lipari:						
9828 *E 1788*	--Lipari Anchorage, head of Pignatoro Mole.	38° 28.6´ N 14° 57.8´ E	**Fl.G.** period 3s fl. 1s, ec. 2s	36 **11**	8	Green tower, hut; 20.	
9830 *E 1792.7*	--Pontile Traghetti.	38° 29.5´ N 14° 57.8´ E	**F.G.**	20 **6**	7	Green post; 16.	Private light.
9832 *E 1790*	--Punta Scaliddi.	38° 28.2´ N 14° 57.4´ 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 *E 1792*	--Marina Corta.	38° 27.9´ N 14° 57.5´ E	**Fl.(3)W.** period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 10.5s	36 **11**	14	White round tower; 20.	
9838 *E 1793*	--Porticello.	38° 31.0´ N 14° 57.6´ E	**2 F.R.** (vert.)	23 **7**	3	White post, red bands; 23.	1 meter apart. Private light.
9840 *E 1800*	-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 *E 1802*	-Isola Stromboli, Isolott Strombolicchio, summit.	38° 49.1´ 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 *E 1785*	-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.	Visible 317°-090° and 095°-255°.
9847 *E 1784*	-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.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
	SICILIA (SICILY) AND ADJACENT ISLANDS (I.)						
	-Isola Salina:						
9848 *E 1798*	**--Capo Faro (Salina).**	38° 34.8´ N 14° 52.3´ E	**L.Fl.W.** period 6s fl. 2s, ec. 4s	184 **56**	**18**	Tower, building; 39.	Visible 123°-357°, light faint 123°-137°. **AIS** (MMSI No 992471085). Reserve light range 11M.
9852 *E 1796*	--Punta Lingua.	38° 32.2´ N 14° 52.3´ E	**Fl.W.** period 3s fl. 1s, ec. 2s	43 **13**	11	White tower, building; 36.	Visible 186°-076°.
9856 *E 2038*	**Capo d'Orlando.**	38° 09.9´ N 14° 45.0´ E	**L.Fl.(2)W.** period 12s fl. 2s, ec. 2s fl. 2s, ec. 6s	89 **27**	**16**	Tower, building; 33.	Reserve light range 12M. **AIS** (MMSI No 992471082).
9860 *E 2036*	**Capo Cefalu.**	38° 02.3´ N 14° 01.8´ E	**Fl.W.** period 5s fl. 0.2s, ec. 4.8s	262 **80**	**25**	White tower, building; 85.	Reserve light range 18M. **AIS** (MMSI No 992471081).
	TERMINI IMERESE:						
9868 *E 2035*	-Pontile della Societa Tifeo.	37° 59.3´ N 13° 45.1´ E	**Q.R.**	66 **20**	5	White post.	Private light.
9870 *E 2035.2*	-Water intake.	37° 58.7´ N 13° 45.1´ E	**Fl.R.** period 5s fl. 0.5s, ec. 4.5s	33 **10**	3	Red post, white bands.	Private light.
9876 *E 2030*	-Inner mole.	37° 59.1´ N 13° 42.7´ E	**Fl.R.** period 3s fl. 1s, ec. 2s	23 **7**	5	Pedestal, red lantern; 16.	
9890 *E 2024*	Scoglio Formica.	38° 05.4´ N 13° 33.6´ E	**Fl.(2)W.** period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	7 **2**	3	ISOLATED DANGER BRB, beacon, topmark.	
9892 *E 2025*	Punta Porticello, outer breakwater, head.	38° 05.3´ N 13° 32.5´ E	**Fl.G.** period 3s fl. 1s, ec. 2s	20 **6**	5	Pylon, hut; 13.	Private light.
9896 *E 2026*	-Transverse mole, head.	38° 05.3´ N 13° 32.5´ E	**Fl.R.** period 3s fl. 1s, ec. 2s	33 **10**	4	Red framework tower, pedestal; 20.	Safety distance 35m. Private light.
9900 *E 2023*	**Capo Zafferano.**	38° 06.7´ N 13° 32.3´ 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 tower, building; 36.	W. 105°-298°, R.-344°, W.-355°. Reserve light range W. 12M, R. 9M. **AIS** (MMSI No 992471080).
	PALERMO:						
9908 *E 2008*	**-Diga Foranea,** elbow.	38° 07.6´ N 13° 22.5´ 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(• – – •)**		10		(3 & 10cm).
9910 *E 2013*	--Head.	38° 07.3´ N 13° 22.8´ E	**L.Fl.G.** period 5s fl. 2s, ec. 3s	33 **10**	5	Green post; 23.	
9912 *E 2014*	-S. mole, head.	38° 07.6´ N 13° 22.3´ E	**L.Fl.R.** period 5s fl. 2s, ec. 3s	31 **9**	8	Red tower; 20.	Safety distance 35m.
9914 *E 2010*	-Industrial Port, breakwater, head.	38° 08.0´ N 13° 22.7´ E	**F.G.**				
9916 *E 2019*	-Pontile Vittorio Veneto, head.	38° 07.6´ N 13° 22.1´ E	**2 F.G.** (vert.)	26 **8**	3	Post; 20.	1 meter apart. 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.)						
9917 *E 2011*	-Aquasanta, outer mole, head.	38° 08.7´ N 13° 22.4´ E	**2 F.G.** (vert.)	36 **11**	3	Green post; 30.	Private light.
9917.5 *E 2012*	- -Inner mole, head.	38° 08.6´ N 13° 22.3´ E	**2 F.R.** (vert.)	36 **11**	3	Red post; 16.	Private light.
9918 *E 2012.3*	-Molo di Sopraflutto.	38° 08.5´ N 13° 22.4´ E	**Fl.Y.** period 5s fl. 1s, ec. 4s	20 **6**	4	Yellow post; 13.	Private light.
9924 *E 2005*	Mondello Valdesi, mole, head.	38° 11.9´ N 13° 20.1´ E	**2 F.R.** (vert.)	24 **7**	3	Red post; 16.	2 F.G. (vert.) on mole 0.6 miles NNW. 1 meter apart. Private light.
9936 *E 2004*	**Capo Gallo.**	38° 13.4´ N 13° 19.0´ E	**L.Fl.(2)W.** period 15s fl. 2s, ec. 3s fl. 2s, ec. 8s	131 **40**	**16**	White round tower, building; 23.	Visible 077°-297°. **AIS** (MMSI No 992471079). Reserve light range 13M.
9940 *E 1994*	**Punta Raisi**, AVIATION LIGHT.	38° 11.4´ N 13° 06.5´ E	**Al.Fl.W.G.**		**35**		**AIS** (MMSI No 992471076). Private light.
9948	-AVIATION LIGHT, near point.	38° 11.1´ N 13° 06.1´ E	**Mo.(Q)G.** period 8s		12		Private light.
9952 *E 1993.54*	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 *E 1996*	**-Punta Omo-Morto.**	38° 42.8´ N 13° 11.9´ 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, building; 33.	Visible 087°-356°. **AIS** (MMSI No 992471077). Reserve light range 11M.
			Oc.R. period 5s lt. 4s, ec. 1s	312 **95**	9		Visible 135°-145° over Secca Colombara.
9960 *E 1997*	-Cala Santa Maria, mole, head.	38° 42.5´ N 13° 11.8´ E	**2 F.R.** (vert.)	31 **9**	3	Red post; 13.	1 meter apart. Private light.
9964 *E 2000*	**-Punta Cavazzi.**	38° 41.6´ N 13° 09.3´ 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 cylindrical tower; 92.	Visible 297°-194°. AIS (MMSI No 992471078). Reserve light range 12M.
9968 *E 1992*	Castellammare del Golfo.	38° 01.8´ N 12° 52.9´ 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 *E 1993.5*	Terrasini, outer mole, head.	38° 09.6´ N 13° 04.8´ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	23 **7**	4	White post, black bands; 13.	Private light.
9976 *E 1993.6*	-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 *E 1993*	-N. mole, head.	38° 02.1´ N 12° 52.9´ E	**Fl.G.** period 8s fl. 1s, ec. 7s	19 **6**	3	Green post; 16.	
9984 *E 1990*	-Punta Solanto, close N. of Torre dell'Usciere.	38° 10.5´ N 12° 46.2´ E	**Fl.W.R.** period 3s fl. 1s, ec. 2s	82 **25**	W. 10 R. 8	White square hut; 16.	R. 122°-144°, W.-122°.
9988 *E 1986*	**Capo San Vito.**	38° 11.1´ N 12° 44.3´ E	**Fl.W.** period 5s fl. 0.2s, ec. 4.8s	148 **45**	**25**	White cylindrical tower, building; 131.	Visible 036°-000°. **AIS** (MMSI No 992471075). Reserve light range 18M.
			Iso.R. period 4s	39 **12**	8		Visible 165°-225°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
	SICILIA (SICILY) AND ADJACENT ISLANDS (I.)						
9992 *E 1987*	-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 *E 1988*	-Lee breakwater, head.	38° 10.7′ N 12° 44.0′ E	**2 F.R.** (vert.)	31 **9**	3	Red post; 20.	2 meters apart. Private light.
	ISOLE EGADI:						
10000 *E 1962*	Isola de Levanzo, Capo Grosso, island, N. head.	38° 01.0′ N 12° 20.0′ E	**Fl.(3)W.** period 15s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 8s	223 **68**	11	White round tower, building; 39.	Visible 032°-331°. Reserve light range 10M.
10004 *E 1956*	**--Punta Libeccio.**	37° 57.3′ 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, two-story white building, black bands; 79.	Visible 298°-151°. **AIS** (MMSI No 992471074). Reserve light range 15M.
	-Isola Marettimo:						
10008 *E 1960*	--Punta San Simone, island, E. side.	37° 57.9′ N 12° 04.6′ E	**F.G.**	23 **7**	3	Green post; 16.	Safety distance 30m. Private light.
10012 *E 1958*	--Landing pier, head.	37° 58.1′ N 12° 04.4′ E	**Fl.R.** period 3s fl. 1s, ec. 2s	26 **8**	5	Pedestal, red lantern; 20.	
10016 *E 1948*	**Isola Favignana, Punta Marsala.**	37° 54.2′ N 12° 21.9′ 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 cylindrical tower, two-story building; 46.	Visible 202°-095°. **AIS** (MMSI No 992471072). Reserve light range 11M.
10018 *E 1947.5*	Punta Scario Beacon.	37° 54.1′ N 12° 24.5′ E	**Q.(9)W.** period 15s	16 **5**	5	W. CARDINAL YBY, articulated beacon, topmark.	**Radar reflector.**
10020 *E 1952*	**Punta Sottile.**	37° 56.0′ N 12° 16.2′ E	**Fl.W.** period 8s fl. 0.3s, ec. 7.7s	141 **43**	**25**	White cylindrical tower, building; 125.	Visible 316°-237°. Aeromarine light. **AIS** (MMSI No 992471073). Reserve light range 18M.
10024 *E 1949*	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	Pedestal, red lantern; 16.	Safety distance 35m.
10028 *E 1950*	-Inner mole, head.	37° 55.8′ N 12° 19.6′ E	**2 F.R.G.** (vert.)	23 **7** 19 **6**	4	Red post, green bands; 20.	1 meter apart. Private light.
10032 *E 1966*	Isolotto Formica, on the castle.	37° 59.3′ N 12° 25.4′ E	**Fl.W.** period 4s fl. 1s, ec. 3s	92 **28**	11	White cylindrical tower, building; 66.	
10036 *E 1968*	Scogli Porcelli, in approach to Trapani.	38° 02.4′ N 12° 26.3′ E	**Fl.(2)W.** period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	75 **23**	11	Cylindrical tower; 82.	
10040 *E 1982*	Isolotto Asinelli, in approach to Trapani.	38° 03.9′ 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 *E 1970*	**Scoglio Palumbo,** N. side of entrance.	38° 00.8′ N 12° 29.3′ E	**Fl.W.** period 5s fl. 1s, ec. 4s	54 **16**	**15**	White cylindrical tower, building; 39.	Reserve light range 12M.
			Iso.R. period 2s	30 **9**	8		Visible 131°-176°.
10052 *E 1978*	-Molo del Ronciglio, head.	38° 00.7′ N 12° 30.3′ E	**F.G.**	33 **10**	3	Green pylon, hut; 7.	Safety distance 25m.

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	SICILIA (SICILY) AND ADJACENT ISLANDS (I.)						
10060 *E 1979.2*	-Detached breakwater, E. head.	38° 00.8´ N 12° 30.0´ E	**Fl.R.** period 6s fl. 1s, ec. 5s	23 **7**	4	Red post, base; 20.	Visible 073°-023°.
	MARSALA:						
10064 *E 1940*	-W. mole, inner head.	37° 47.0´ N 12° 26.2´ E	**Fl.(2)W.** period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	62 **19**	**15**	White cylindrical tower, dwelling; 62.	**AIS** (MMSI No 992471071). Reserve light range 12M.
10068 *E 1942*	- -Outer head.	37° 46.9´ N 12° 26.2´ E	**Fl.R.** period 3s fl. 1s, ec. 2s	36 **11**	8	Pedestal, red lantern; 20.	
10072 *E 1944*	-E. mole, head.	37° 47.1´ N 12° 26.4´ E	**Fl.G.** period 3s fl. 1s, ec. 2s	30 **9**	8	Pedestal, green lantern; 20.	
10076 *E 1938*	Capo Feto.	37° 39.7´ N 12° 31.2´ E	**L.Fl.W.** period 10s fl. 2s, ec. 8s	46 **14**	11	White cylindrical tower, square hut; 39.	
10078 *E 1938.3*	-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, "X" topmark.	Private light.
10080 *E 1932*	Mazara del Vallo, W. mole, head.	37° 38.5´ N 12° 35.2´ E	**Fl.R.** period 4s fl. 1s, ec. 3s	43 **13**	5	Pedestal, red lantern; 16.	
10082 *E 1932.5*	-SE. corner.	37° 38.8´ N 12° 35.0´ E	**Iso.Y.** period 2s	33 **10**	3	Pedestal, yellow lantern; 16.	
10084 *E 1933*	-E. mole, head.	37° 38.7´ N 12° 35.0´ E	**Fl.G.** period 4s fl. 1s, ec. 3s	43 **13**	8	Pedestal, green lantern; 16.	
10092 *E 1930*	**Capo Granitola.**	37° 33.9´ N 12° 39.7´ E	**L.Fl.W.** period 10s fl. 3s, ec. 7s	123 **37**	**18**	White cylindrical tower; 115.	**AIS** (MMSI No 992471066). Reserve light range 13M.
10094 *E 1928.5*	**Capo San Marco.**	37° 29.8´ 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, hut; 36.	**AIS** (MMSI No 992471065).
	SCIACCA:						
10096 *E 1926*	-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 *E 1926.2*	- -Head.	37° 30.0´ N 13° 04.8´ E	**Fl.G.** period 4s fl. 1s, ec. 3s		2	Green lantern.	Visible inside the harbor only. Safety distance 30m.
10104 *E 1927*	-Molo di Ponete, about 7 meters from head.	37° 30.1´ N 13° 04.6´ E	**L.Fl.R.** period 6s fl. 2s, ec. 4s	30 **9**	8	Pedestal, red lantern; 16.	Safety distance 40m.
10108 *E 1928*	-Diga di Levante.	37° 30.0´ N 13° 04.6´ E	**L.Fl.G.** period 6s fl. 2s, ec. 4s	36 **11**	8	Pedestal, green lantern; 20.	
10112 *E 1922*	**Capo Rosello.**	37° 17.7´ N 13° 26.9´ E	**Fl.(2)W.** period 10s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 7.3s	312 **95**	**22**	Tower, building; 26.	**AIS** (MMSI No 992471064). Reserve light range 18M.

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	SICILIA (SICILY) AND ADJACENT ISLANDS (I.)						
	PORTO EMPEDOCLE:						
10116 *E 1918*	-E. mole, head.	37° 16.8´ N 13° 31.7´ E	**Fl.G.** period 3s fl. 1s, ec. 2s	30 **9**	8	Green tower; 23.	Fl.R. 2.5s 178m and 2 Fl.R. 2.5s 147m on radio antenna 2 miles NE.
10120 *E 1916*	-W. mole, head.	37° 16.5´ N 13° 31.6´ E	**Fl.R.** period 3s fl. 1s, ec. 2s	39 **12**	8	Pedestal, red lantern; 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 *E 1920*	-Molo Francesco Crispi, old port, W. side.	37° 17.1´ N 13° 31.8´ E	**F.R.**	19 **6**	3	Red post; 13.	Visible 172°-050°.
	LICATA:						
10128 *E 1904*	**-Mole di Levante.**	37° 05.8´ N 13° 56.5´ E	**Fl.W.** period 5s fl. 0.3s, ec. 4.7s	131 **40**	**21**	White cylindrical tower; 123.	Visible 180°-095°. **AIS** (MMSI No 992471063). Reserve light range 18M.
10132 *E 1908*	-Diga di Levante, head.	37° 05.1´ N 13° 56.6´ E	**Fl.G.** period 5s fl. 1s, ec. 4s	33 **10**	8	Green round tower; 26.	
10136 *E 1906*	--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 *E 1907*	-Darsena Marianello entrance, W.	37° 05.5´ N 13° 56.0´ E	**2 F.R.** (vert.)	20 **6**	3	Red post; 16.	F.Y. 2m 1M is shown on two piers inside the harbor. Visible inside the harbor only. 2 meters apart. Private light.
10138 *E 1912.5*	--E. head.	37° 05.5´ N 13° 56.1´ E	**2 F.G.** (vert.)	20 **6**	3	Green post; 16.	Visible inside the harbor only. 2 meters apart. Private light.
10140 *E 1912*	-Molo di Ponente, head.	37° 05.6´ N 13° 56.1´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	39 **12**	4	Pedestal, red lantern; 16.	Visible 160°-325°.
10144 *E 1905*	-Molo di Levante, head.	37° 05.5´ N 13° 56.3´ E	**Fl.G.** period 3s fl. 1s, ec. 2s	39 **12**	4	Pedestal, green lantern; 16.	
	GELA:						
10152 *E 1902*	-Porto Refugio, Molo di Levante, head.	37° 03.9´ N 14° 13.9´ E	**Fl.G.** period 3s fl. 1s, ec. 2s	16 **5**	8	Pedestal, green lantern; 26.	Safety distance 25m.
10156 *E 1902.2*	--Molo di Ponente, head.	37° 03.8´ N 14° 13.7´ E	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s	26 **8**	8	Pedestal, red lantern; 16.	Safety distance 25m.
10160 *E 1900.6*	-Jetty, head.	37° 02.7´ N 14° 15.5´ E	**2 F.R.** (vert.)	32 **10**	3	Red post; 16.	1 meter apart. Private light.
10164 *E 1900.4*	-Porto Isola, pier, head.	37° 01.9´ N 14° 15.1´ E	**2 F.R.G.** (vert.)	75 **23**	3	Black post, red bands.	2 meters apart. Private light.
10168 *E 1900.2*	--Breakwater, W. head.	37° 02.1´ N 14° 14.8´ E	**Oc.G.** period 4s lt. 3s, ec. 1s	40 **12**	3	Green post, sentry box; 16.	Private light.
10172 *E 1900*	--Breakwater, E. head.	37° 01.8´ N 14° 15.4´ E	**Oc.R.** period 4s lt. 3s, ec. 1s	40 **12**	3	Red post, sentry box; 17.	Private light.
10180 *E 1898*	Scoglitti.	36° 53.5´ N 14° 25.6´ E	**Fl.(3)W.** period 10s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	49 **15**	8	White tower, building; 43.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SICILIA (SICILY) AND ADJACENT ISLANDS (I.)				
10184 *E 1896*	**Scaramia.**	36° 47.2´ N 14° 29.6´ E	**Fl.(2)W.** period 8s fl. 1.5s, ec. 1s fl. 1.5s, ec. 4s	121 **37**	**16**	White cylindrical tower; 112.	**AIS** (MMSI No 992471062). Reserve light range 12M.
10188 *E 1894*	Marina de Ragusa (Mazzarelle), on beach.	36° 46.9´ N 14° 33.1´ E	**Fl.W.** period 5s fl. 1s, ec. 4s	40 **12**	8	Yellow tower, building; 39.	
10190 *E 7120*	Platform VEGA.	36° 32.3´ N 14° 37.5´ E	**4 Mo.(U)W.** period 15s	62 **19**	10	Red framework tower, white bands, yellow platform; 226.	Aero 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		(3 & 10cm).
10196 *E 1889.05*	**Pozzallo,** on beach.	36° 42.6´ N 14° 49.8´ 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 masonry tower; 49.	Reserve light range 11M.
10208 *E 1888*	Scogli Porri, on largest rock.	36° 41.1´ N 14° 55.9´ E	**Fl.(2)W.** period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	23 **7**	7	Black post, red bands; 20.	
10212 *E 1886*	Isola delle Correnti, S. point.	36° 38.7´ N 15° 04.6´ E	**Fl.W.** period 4s fl. 1s, ec. 3s	52 **16**	11	Tower, building; 36.	
10216 *E 1885*	Porto Palo, mole, head.	36° 41.0´ N 15° 09.0´ E	**Fl.G.** period 3s fl. 1s, ec. 2s	19 **6**	3	Green lantern; 13.	Visible 130°-060°. Safety distance 25m. Private light.
10224 *E 1882*	**Cozzo Spadaro.**	36° 41.1´ N 15° 07.9´ 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, building; 118.	Visible 170°-095°. Aeromarine light. **AIS** (MMSI No 992471061). Reserve light range 18M.
10228 *E 1884*	Capo Passero.	36° 41.2´ N 15° 09.1´ E	**Fl.(2)W.** period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	128 **39**	11	White tower, castle; 62.	Visible 151°-063°.
10230 *E 1880*	*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. Private light.
10232 *E 1879*	Marzamemi, mole, head.	36° 44.0´ N 15° 07.3´ E	**Fl.R.** period 5s fl. 0.5s, ec. 4.5s	34 **10**	3	Pedestal, red lantern; 20.	2 F.R.W. (vert.) are shown from N. breakwater. Safety distance 30m. Private light.
10236 *E 1878*	-N. breakwater, head.	36° 43.9´ N 15° 07.3´ E	**Fl.G.** period 5s fl. 0.5s, ec. 4.5s	26 **8**	4	Pedestal, green lantern; 16.	Safety distance 25m. Private light.
10238 *E 1877.8*	Ognina.	36° 58.8´ N 15° 15.8´ E	**Iso.W.** period 2s	16 **5**	2	White post.	Private light.
10240 *E 1876*	**Capo Murro di Porco.**	37° 00.2´ N 15° 20.1´ E	**Fl.W.** period 5s fl. 1s, ec. 4s	112 **34**	**17**	White tower; 66.	Visible 160°-090°. **AIS** (MMSI No 992471060). Reserve light range 10M.
10241 *E 1877*	-Plemmirio, N.	37° 00.5´ N 15° 20.2´ E	**Fl.Y.** period 4s fl. 1s, ec. 3s	16 **5**	3	SPECIAL Y, beacon, "X" topmark.	Private light.
10242 *E 1877.5*	--S.	37° 00.1´ N 15° 19.8´ E	**Fl.Y.** period 4s fl. 1s, ec. 3s	16 **5**	3	SPECIAL Y, beacon, "X" topmark.	Private light.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
	SIRACUSA:						
10244 *E 1867*	-Punta Castelluccio, entrance, S. side.	37° 02.6′ N 15° 18.2′ E	**Fl.R.** period 3s fl. 1s, ec. 2s	69 **21**	9	Red tower, building; 26.	
10248 *E 1866*	-Castello Maniace, entrance, N. side.	37° 03.2′ N 15° 17.7′ E	**Fl.G.** period 3s fl. 1s, ec. 2s	90 **27**	9	Green tower, building; 23.	Visible 188°-330°.
10250 *E 1865.5*	-Isola dei Cani.	37° 03.6′ 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 *E 1868*	**-Caderini,** W. shore of Porto Grande, entrance Range, front.	37° 02.9′ N 15° 16.4′ E	**Iso.R.** period 2s	39 **12**	**17**	Red and white checkered tower; 26.	Visible 224°-274°. Reserve light range 12M.
10256 *E 1868.1*	**--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**	Red and white checkered tower; 49.	Visible 261°-272°. Reserve light range 10M.
10260 *E 1870*	-La Darsena, S. entrance, E. side.	37° 03.8′ N 15° 17.4′ E	**F.G.**	18 **5**	3	Black post, white bands; 10.	F.R. marks W. side of entrance. Private light.
10268 *E 1864*	-Porto Marmorea, N. breakwater, head.	37° 04.1′ N 15° 17.6′ E	**2 F.G.** (vert.)	33 **10** 26 **8**	3	Green post, hut; 16.	Safety distance 15m. 2 meters apart. Private light.
10272 *E 1865*	--S. breakwater, head.	37° 04.1′ N 15° 17.6′ E	**2 F.R.** (vert.)	33 **10** 26 **8**	3	Red post, hut; 16.	2 meters apart. Private light.
10276 *E 1862*	Baia dis Panagia, pier, head.	37° 07.1′ N 15° 16.2′ E	**2 F.G.R.** (vert.)		5	White post, black bands.	Private light.
10280 *E 1862.4*	-Pier, head.	37° 06.6′ N 15° 15.7′ E	**F.G.**		2	White post, black bands; 16.	Private light.
10282 *E 1861.8*	-Dockyard pier, head.	37° 06.9′ N 15° 15.1′ E	**Q.R.**	23 **7**	4	Post.	Private light.
10284 *E 1862.5*	-A1 Range, front.	37° 06.6′ N 15° 15.3′ E	**Q.G.**	42 **13**	4	Green post.	Visible 211°-244°. Private light.
10288 *E 1862.51*	--Rear, 229° 340 meters from front.	37° 06.5′ N 15° 15.1′ E	**Oc.G.** period 3s lt. 2s, ec. 1s	65 **20**	4	Green post.	Visible 196°-239°. Private light.
10292 *E 1862.59*	-A2 Range, front.	37° 06.4′ N 15° 15.6′ E	**Q.R.**	43 **13**	4	Red post.	Visible 214°-247°. Private light.
10296 *E 1862.6*	--Common rear, 340 meters 229° from A2 front, 380 meters 245° from A3 front.	37° 06.3′ N 15° 15.5′ E	**Oc.R.** period 3s lt. 2s, ec. 1s	65 **20**	4	Red post.	Visible 219°-251°30′. Private light.
10300 *E 1862.61*	-A3 Range, front.	37° 06.4′ N 15° 15.7′ E	**Q.W.**	42 **13**	5	White post.	Visible 218°-251°. Private light.
10304 *E 1862.8*	--Beacon.	37° 06.8′ N 15° 15.5′ E	**Fl.Y.** period 3s fl. 0.5s, ec. 2.5s	10 **3**	4	Yellow beacon.	Private light.
10304.5 *E 1862.9*	-Terminal.	37° 06.6′ N 15° 15.5′ E	**Fl.Y.** period 5s fl. 1s, ec. 4s	20 **6**	3	SPECIAL Y, articulated beacon, "X" topmark.	Marks pipeline terminal. Private light.
10305 *E 1861.5*	-Seawater intake.	37° 08.4′ N 15° 13.4′ E	**2 F.R.** (vert.)	26 **8**	4	Red post; 16.	2 meters apart. Private light.
10306 *E 1861*	-Pontile Gulf, head.	37° 08.7′ N 15° 14.3′ E	**2 F.G.** (vert.)	56 **17**	3	Green post, castle; 56.	1 meter apart. 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.)						
10308 *E 1860*	Pensola Magnisi, on point, N. side.	37° 09.5´ N 15° 14.1´ 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	Black truncated conical tower, white bands, black base; 20.	Visible 090°-320°.
10316 *E 1859*	Seno del Priolo, oil pier, head.	37° 09.9´ N 15° 12.6´ E	**Iso.R.** period 2s	33 **10**	3	Post; 20.	Private light.
	AUGUSTA:						
10320 *E 1847*	-Diga Settentrionele, off head.	37° 11.9´ N 15° 13.9´ 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(– – •)**		10		(3 & 10cm).
10324 *E 1848*	-Diga Centrale, off N. head.	37° 11.7´ N 15° 13.9´ 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 *E 1846*	-Punta Gennalena, entrance Range, front.	37° 12.0´ N 15° 11.0´ E	**Iso.W.** period 4s	54 **16**	12	White tower, black bands, white building; 30.	Visible 247°-299°. F.R. marks chimney 1.2 miles NW.
10332 *E 1846.1*	**--Dromo Giggia,** rear, 3 km. 273°51´ from front.	37° 12.1´ N 15° 09.2´ E	**Oc.W.** period 5s lt. 3s, ec. 2s	259 **79**	**17**	White tower, black bands, white building; 30.	Visible 245°-301°. Reserve light range 13M.
10336 *E 1849*	-Porticciolo di Terre Vecchie, breakwater, head.	37° 13.0´ N 15° 13.4´ E	**F.R.**	26 **8**	3	Red post; 20.	
10337 *E 1849.4*	-Augusta.	37° 13.2´ N 15° 12.7´ E	**Q.(9)W.** period 15s	16 **5**	5	W. CARDINAL YBY, articulated beacon, topmark.	**Radar reflector.**
10338 *E 1849.6*	- -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 *E 1850*	-Cala dei Molo, entrance, S. side.	37° 13.9´ N 15° 12.9´ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	23 **7**	4	Green post, hut; 20.	A F.R. light is located at Porto di Augusta on the Cathedral Belfry.
10352 *E 1852*	-Pontile Shell, head.	37° 14.3´ N 15° 12.9´ E	**2 F.G.** (vert.)	21 **6**	3	Post; 16.	1 meter apart. Private light.
10354 *E 1852.5*	-Commercial Pier, head.	37° 14.1´ N 15° 11.9´ E	**F.G.**	20 **6**	4	Green post; 16.	Private light.
10355 *E 1852.6*	-Pontile Ro-Ro, head.	37° 14.1´ N 15° 11.7´ E	**3 F.R.G.R.** (vert.)	26 **8**	4	Red structure, green bands; 20.	Private light.
10364 *E 1854*	-Pontile Esso No 1, 150 meters from head.	37° 12.7´ N 15° 11.6´ E	**2 F.R.G.** (vert.)	29 **9**	3	Gray post.	2 meters apart. Private light.
10368 *E 1855*	- -No 2.	37° 12.5´ N 15° 11.6´ E	**3 F.R.R.G.** (vert.)	26 **8**	3	Yellow post; 79.	2 meters apart. Private light.
10372 *E 1855.2*	- -Water hydrant.	37° 12.6´ N 15° 11.1´ E	**Fl.Y.** period 3s fl. 0.5s, ec. 2.5s		3	SPECIAL Y, structure, "X" topmark.	Private light.
10376 *E 1856*	-Cement pier, head.	37° 11.7´ N 15° 11.6´ E	**2 F.G.** (vert.)	40 **12**	3	Green post; 36.	1 meter apart. Private light.
10378 *E 1856.5*	-Pier, head.	37° 11.5´ N 15° 11.4´ E	**F.R.**	23 **7**	3	Yellow post.	Private light.
10380 *E 1857*	-Pontile Marina Militare, head.	37° 11.5´ N 15° 11.9´ E	**2 Fl.G.R.** (vert.) period 2s fl. 0.5s, ec. 1.5s	30 **9**	3	Green post, red bands; 13.	2 meters apart.
10384 *E 1857.4*	-Supertanker Pier, head.	37° 11.3´ N 15° 12.4´ E	**3 F.G.** (vert.)	60 **18**	3	Green post.	1 and 2 meters apart. 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.)				
10386 *E 1858*	-Liquids Pier, head.	37° 10.9´ N 15° 12.4´ E	**3 F.G.R.G.** (vert.)	56 **17**	3	Post; 46.	1 and 2 meters apart. Private light.
10387 *E 1858.1*	-Center, head.	37° 10.7´ N 15° 12.2´ E	**F.R.**		3	Gray post.	Private light.
10388 *E 1858.2*	-Solids Pier, head.	37° 10.5´ N 15° 12.5´ E	**3 F.R.G.R.** (vert.)	59 **18**	3	Post; 46.	2 and 1 meters apart. Private light.
10389 *E 1858.3*	-Jetty.	37° 10.4´ N 15° 12.4´ E	**F.R.**		3	Gray post.	Private light.
10390 *E 1858.4*	-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	Green beacon, triangular daymark point up; 33.	Safety distance 50. Private light.
10391 *E 1858.6*	- -W. side.	37° 10.5´ N 15° 12.8´ E	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s	30 **9**	5	Red beacon, square daymark; 33.	Safety distance 30m. Private light.
10392 *E 1838*	**Capo Santa Croce.**	37° 14.6´ N 15° 15.4´ E	**L.Fl.(2)W.** period 12s fl. 2s, ec. 2s fl. 2s, ec. 6s	128 **39**	**16**	White cylindrical tower; 89.	Visible 146°-021°. **AIS** (MMSI No 992471059). Reserve light range 10M.
10396 *E 1836*	Brucoli, entrance, E. side.	37° 17.0´ N 15° 11.2´ E	**Fl.W.** period 5s fl. 1s, ec. 4s	43 **13**	11	White tower, red band, building; 16.	Obscured by Capo Campolato when bearing greater than 230°.
	CATANIA:						
10400 *E 1828*	**-Sciara Biscari.**	37° 29.3´ N 15° 05.1´ E	**Fl.W.** period 5s fl. 0.4s, ec. 4.6s	102 **31**	**22**	White cylindrical tower; 92.	**AIS** (MMSI No 992471058). Reserve light range 18M.
10420 *E 1830*	-Molo di Levante, head.	37° 29.0´ N 15° 06.0´ E	**L.Fl.G.** period 5s fl. 2s, ec. 3s	39 **12**	8	Green post; 20.	
10422 *E 1832.5*	-Breakwater, head.	37° 29.3´ N 15° 05.7´ E	**L.Fl.R.** period 5s fl. 2s, ec. 3s	20 **6**	5	Red post on platform; 16.	
10424 *E 1831*	-Molo di Levante, knuckle.	37° 29.5´ N 15° 05.9´ E	**Fl.G.** period 2s fl. 0.5s, ec. 1.5s	37 **11**	5	Pedestal, green lantern; 16.	Visible 355°-175°.
10428 *E 1827*	Acicastello, Molo Porticciolo, N. corner.	37° 33.3´ N 15° 08.9´ E	**Fl.R.** period 4s fl. 1s, ec. 3s	19 **6**	3	Red post; 10.	Private light.
10432 *E 1826*	**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, building; 66.	**AIS** (MMSI No 992471057). Reserve light range 18M.
10434 *E 1821*	Giardini Naxos, mole, head.	37° 49.6´ N 15° 16.6´ E	**Fl.R.** period 4s fl. 1s, ec. 3s	16 **5**	8	Red lantern.	Private light.
	RIPOSTO:						
10436 *E 1822*	-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 *E 1823*	-E. mole, head.	37° 44.1´ N 15° 12.6´ E	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s	36 **11**	5	Red lantern.	
10442 *E 1824*	-W. mole, head.	37° 44.0´ N 15° 12.5´ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	20 **6**	4	Green post; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
	ISOLE PELAGIE:						
	-Isola di Lampedusa:						
10444 *E 2088*	**--Capo Grecale.**	35° 31.0´ N 12° 38.0´ E	**Fl.W.** period 5s fl. 0.3s, ec. 4.7s	269 **82**	**22**	Multi-sided tower, building; 62.	Visible 112°-075°. Reserve light range 18M. **AIS** (MMSI No 992471069).
10448 *E 2089*	--Lampedusa, on Punta Maccaferri, entrance, E. side.	35° 29.6´ N 12° 36.3´ E	**Fl.G.** period 3s fl. 1s, ec. 2s	57 **17**	8	Pedestal, green lantern; 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 Favaloro, breakwater, head.	35° 29.8´ N 12° 36.2´ E	**Fl.R.** period 5s fl. 1s, ec. 4s	23 **7**	7	Pedestal, red lantern; 16.	Safety distance 15m.
10460 *E 2090*	--Punta Guitgia, entrance, W. side.	35° 29.8´ N 12° 35.9´ E	**Fl.R.** period 3s fl. 1s, ec. 2s	47 **14**	8	Pedestal, red lantern; 16.	
10464 *E 2086*	--Capo Ponente, island, W. head.	35° 31.2´ N 12° 31.3´ E	**Fl.(3)W.** period 15s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 8s	360 **110**	8	Pedestal, white lantern; 20.	Visible 290°-222°.
	-Isola di Linosa:						
10468 *E 2082*	**--Punta Beppe Tuccio.**	35° 52.4´ 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 cylindrical tower, building; 56.	Visible 107°-345°, at distance less than 6 miles 103°-346°. **AIS** (MMSI No 992471070). Reserve light range 12M. Reserve light range 12M.
10472 *E 2080*	--Punta Arena Bianca, island, SW. side.	35° 51.6´ N 12° 51.4´ E	**Fl.W.** period 5s fl. 1s, ec. 4s	31 **9**	9	Pylon, white hut; 20.	Visible 276°30´-150°.
10476 *E 2084*	-Isolotto Lampione.	35° 33.0´ 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° 49.4´ 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, building; 69.	Reserve light range 18M. **AIS** (MMSI No 992471067).
10484 *E 2107*	-Punta Tracino.	36° 47.9´ N 12° 03.0´ 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° 02.0´ 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	Pedestal, white lantern; 16.	
10496 *E 2096*	-Scauri.	36° 46.1´ N 11° 57.7´ E	**Fl.W.** period 5s fl. 1s, ec. 4s	60 **18**	10	Pedestal, white lantern; 16.	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**	Red building, white lantern; 10.	Reserve light range 8M. **AIS** (MMSI No 992471068).

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° 04.3´ N 14° 13.1´ E	**Fl.W.** period 7.5s fl. 0.3s, ec. 7.2s	592 **180**	**20**	White tower, building; 72.	
10508 *E 2051*	-Ramla Tal-Mgarr Harbor, main breakwater.	36° 01.5´ N 14° 18.1´ E	**Fl.R.** period 4s				
10512 *E 2051.2*	--N. breakwater, head.	36° 01.6´ N 14° 18.1´ E	**Fl.G.** period 5s				
	KEMMUNA RAS L-LRQIEQA:						
10516 *E 2054*	-Irkieka ta Kemmuna.	36° 00.2´ N 14° 19.5´ E	**Fl.R.** period 2s	23 **7**	2	White column.	
	MALTA:						
10524 *E 2055.5*	-Cirkewwa, ro-ro terminal, head.	35° 59.4´ N 14° 19.8´ E	**Fl.G.** period 2s	33 **10**	2	Column.	
10524.1 *E 2056*	--SE. pier, head.	35° 59.4´ N 14° 19.8´ E	**Fl.R.G.** period 5s	20 **6**	2		R. 042°-222°, G.-042°.
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° 56.8´ N 14° 23.4´ E	**Fl.R.** period 2s	26 **8**	2	White column, base; 20.	
10532	--*Fairway Buoy.*	35° 54.8´ N 14° 32.5´ E	**L.Fl.W.** period 10s			SAFE WATER RW, pillar, topmark.	
10544 *E 2061.5*	**-Valleta.**	35° 54.2´ N 14° 31.1´ E	**Fl.(3)W.** period 15s	161 **49**	**19**	Pylon.	
10548 *E 2062*	--St. Elmo, W. side of entrance to Grand Harbor, breakwater, head.	35° 54.2´ N 14° 31.5´ E	**Q.G.**	52 **16**	7	White round tower, red band.	
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	White framework tower, red band; 30.	Obscured 120°-157° during firing or searchlight exercises.
10560 *E 2068*	**-Luca** AVIATION LIGHT.	35° 51.3´ N 14° 28.1´ E	**Mo.(LU)G.** period 9s	340 **104**	**25**	Structure; 10.	Visible 170°-345°.
10564 *E 2070*	**-Delimara Point.**	35° 49.3´ N 14° 33.5´ E	**Fl.(2)W.** period 12s	115 **35**	**15**	Black tower, white band, 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°.
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 *E 1782*	**Capo Spartivento.**	37° 55.6´ N 16° 03.6´ E	**Fl.W.** period 8s fl. 0.3s, ec. 7.7s	208 **63**	**24**	White tower, building; 49.	Visible 222°-082°. **AIS** (MMSI No 992471087). Reserve light range 18M.
10584 *E 2108*	**Punta Stilo.**	38° 27.0´ 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 11M. **AIS** (MMSI No 992471088).
10588 *E 2109*	Siderno Marina.	38° 27.0´ N 16° 35.0´ E	**2 F.R.G.** (vert.)	43 **13**	3	Black post, red bands.	1 meter apart. Private light.
10596 *E 2112*	**Capo Rizzuto.**	38° 53.8´ N 17° 05.5´ E	**L.Fl.(2)W.R.** period 10s fl. 2s, ec. 1s fl. 2s, ec. 5s	121 **37**	W. **17** R. 13	White tower, building; 56.	R. 227°-270°, W.-084°, R.-133°. Reserve light range 11/8M. **AIS** (MMSI No 992471089).
10600 *E 2118*	**Capo Colonne.**	39° 01.6´ N 17° 12.2´ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	131 **40**	**24**	White tower, two-story building; 72.	Visible 127°-020°. Reserve light range 18M. **AIS** (MMSI No 992471090).
	CROTONE:						
10604 *E 2122*	-Porto Vecchio, 38 meters from breakwater, head.	39° 04.7´ N 17° 08.2´ E	**Fl.(2)G.** period 5s fl. 1s, ec. 1s fl. 1s, ec. 2s	36 **11**	8	Green hut, lantern; 30.	Safety distance 60m.
10608 *E 2123*	-Molo Sanita, head.	39° 04.7´ N 17° 08.2´ E	**Fl.(2)R.** period 5s fl. 1s, ec. 1s fl. 1s, ec. 2s	30 **9**	8	Red hut, lantern; 26.	
10612 *E 2121.5*	-Porto Nuevo, head of Molo Giunti.	39° 05.2´ N 17° 07.9´ E	**F.G.**	30 **9**	4	Green post; 23.	
10616 *E 2121*	-Molo Sottoflutto, head.	39° 05.5´ N 17° 07.6´ E	**Fl.G.** period 5s fl. 1s, ec. 4s	43 **13**	8	Green framework tower; 23.	Safety distance 50m.
10620 *E 2120*	-Foraneo, mole, head.	39° 05.8´ N 17° 07.6´ E	**Fl.R.** period 5s fl. 1s, ec. 4s	36 **11**	8	Red framework tower; 30.	Safety distance 100m.
10624 *E 2128*	**Punta Alice.**	39° 23.9´ N 17° 09.1´ E	**Fl.(2)W.** period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	102 **31**	**16**	White tower, building; 89.	Reserve light range 12M. **AIS** (MMSI No 992471091).
10630 *E 2130.5*	Punta Coscio.	39° 43.9´ N 16° 30.0´ 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, three-story building; 66.	Private light.
10631 *E 2130.6*	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 *E 2130.61*	-Rear, 60 meters 139° from front.	39° 44.1´ N 16° 30.6´ E	**Iso.W.** period 2s	23 **7**	4	Red framework tower, white bands; 20.	Visible 136°-246°. Synchronized with front. Private light.
10632 *E 2131*	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 *E 2131.2*	-N. mole, head.	39° 44.0´ N 16° 31.0´ E	**F.G.**	20 **6**	6	Green post; 20.	Private light.
	TARANTO:						
10640 *E 2132*	**-Capo San Vito.**	40° 24.7´ N 17° 12.2´ 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, two-story building; 141.	**AIS** (MMSI No 992471092). Reserve light range 18M.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			ITALY-SOUTHEAST COAST				
10642 *E 2133*	-Mar Grande.	40° 25.3′ N 17° 10.4′ 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 framework 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.	
10648 *E 2138*	-Isolotto San Paolo, breakwater, head.	40° 26.2′ N 17° 10.8′ 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° 12.4′ 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° 12.7′ E	**Q.R.**	19 **6**	6	Red buoyant beacon, square daymark.	Private light. **Radar reflector.**
10660 *E 2142.5*	-Mar Grande, close SW. Secca della Sirena.	40° 27.6′ N 17° 13.0′ E	**Q.G.**	20 **6**	7	Green buoyant beacon, triangular daymark point up.	Private light. **Radar reflector.**
10664 *E 2142.6*	-Detached breakwater, SE. head.	40° 27.9′ N 17° 12.5′ 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.	
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.	
10677 *E 2144*	--Jetty, head.	40° 26.8′ N 17° 14.8′ E	**Fl.R.** period 3s fl. 1s, ec. 2s	26 **8**	3	Pedestal, red lantern.	
	-Passagio Piccolo:						
10680 *E 2150*	--Mar Grande Range, Secca della Tarantola, front.	40° 26.9′ N 17° 13.7′ E	**Fl.W.G.** period 3s fl. 1s, ec. 2s	39 **12**	W. 9 G. 7	Green cylindrical tower; 36.	G. 057°-187°30′, W.(over range line)-198°30′, G.-025°. 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°45′-196°25′. F.R. on masthead. Reserve light range 10M.
10688 *E 2152*	--Mar Piccolo, N. Range, front.	40° 29.3′ N 17° 14.4′ E	**Q.R.**	39 **12**	6	Black pyramidal structure, 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° 29.5′ N 17° 14.2′ E	**F.Y.**	33 **10**	3	Yellow post.	A F.Y. light is shown at head of three structures. Private light.
10695 *E 2156*	--Molo Sauro.	40° 28.6′ N 17° 14.9′ E	**Fl.Y.** period 4s fl. 0.5s, ec. 3.5s	20 **6**	2	Yellow post; 16.	A Fl.Y. light is shown at head of three piers.
10695.5 *E 2156.6*	--Molo Lavori, jetty, head.	40° 28.6′ N 17° 15.1′ E	**Fl.Y.** period 4s fl. 0.5s, ec. 3.5s	20 **6**	2	Yellow post; 16.	
10696 *E 2153*	--Canale Navigabile.	40° 28.3′ N 17° 14.1′ E	**F.R.**	26 **8**	4	Wall, lantern.	

(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° 28.6´ 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° 28.6´ 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° 13.4´ E	**Fl.G.** period 5s fl. 1s, ec. 4s	39 **12**	8	Green column, hut, pedestal; 33.	Private light.
	-Porto Industriale:						
10708 *E 2144.4*	--Italsider, pier 2, SE. corner, head.	40° 28.5´ N 17° 12.9´ E	**2 F.R.G.** (vert.)	33 **10**	5	Green post, red bands; 20.	2 F.G.R. (vert.) shown from SW. corner. 1 meter apart. Private light.
10712 *E 2144.43*	---Pier 3, SE. corner, head.	40° 28.4´ N 17° 12.7´ E	**F.R.**	33 **10**	3	Red post; 20.	Private light.
10716 *E 2144.44*	---SW. corner, head.	40° 28.4´ N 17° 12.6´ E	**2 F.R.G.** (vert.)	33 **10**	3	Green post, red bands; 20.	1 meter apart. 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 square daymark, black stripe; 59.	Occasional. Private light.
10719 *E 2144.48*	----Rear, 690 meters 341° from front.	40° 28.7´ N 17° 12.1´ E	**Oc.W.** period 3s lt. 1s, ec. 2s	137 **42**	**20**	Post, white square 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.	1 meter apart. 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, hut, pedestal; 30.	Private light.
	-Punta Rondinella:						
10728 *E 2162*	--Detached breakwater, N. head.	40° 29.5´ N 17° 08.3´ E	**Fl.G.** period 5s fl. 1s, ec. 4s	46 **14**	8	Green post; 20.	Private light. Ponta 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° 08.7´ E	**Q.R.**	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° 08.7´ 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° 29.8´ N 17° 09.3´ E	**F.G.**	33 **10**	3	Green post; 20.	Private light.
10744 *E 2142.92*	--W. side.	40° 28.6´ N 17° 10.4´ E	**Q.G.**	33 **10**	3	Green post; 26.	Private light.
10748 *E 2142.9*	---breakwater, E. side.	40° 28.6´ N 17° 10.4´ E	**Q.R.**	33 **10**	3	Red post; 26.	Private light.
10752 *E 2164*	Porto Cesareo, entrance Range, front.	40° 15.5´ N 17° 54.0´ E	**Iso.W.** period 2s	42 **13**	7	Framework tower, black and white checkered hut; 39.	Visible 350°-068°. Private light.

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			ITALY-SOUTHEAST COAST				
10756 *E 2164.1*	-Rear, 765 meters 034° from front.	40° 15.8´ N 17° 54.3´ E	**Oc.W.** period 3s lt. 2s, ec. 1s	87 **27**	10	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, two-story building; 141.	Reserve light range 15M.
10764 *E 2172*	-Molo di Tramontana.	40° 03.7´ N 17° 59.0´ E	**Fl.G.** period 5s fl. 1s, ec. 4s	36 **11**	9	Green round tower; 29.	Safety distance 70m. F.R. 51m on antenna 880 meters ESE.
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° 58.7´ E	**Q.W.**	16 **5**	5	N. CARDINAL BY, articulated beacon, topmark.	**Radar reflector.**
10772 *E 2173*	-Seno del Canneto, breakwater, head.	40° 03.2´ N 17° 58.8´ E	**F.R.**	20 **6**	3	Red post; 13.	F.G. shown on mole.
10776 *E 2174*	**Torre San Giovanni.**	39° 53.1´ 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°. **AIS** (MMSI No 992471093). Reserve light range W. 11M, R. 9M.
10778 *E 2174.4*	-Secche di Ugento.	39° 49.8´ N 18° 08.3´ 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, two-story building; 157.	Visible 220°-068°. Aeromarine light. **AIS** (MMSI No 992471094). Reserve light range 10M.
			Oc.R. period 4s lt. 3s, ec. 1s	328 **100**	11		Visible 094°-106°. Reserve light range 9M.
10784 *E 2177*	Tricase, outer mole, head.	39° 55.9´ N 18° 23.7´ 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° 06.3´ N 18° 31.2´ E	**Fl.W.** period 5s fl. 1s, ec. 4s	197 **60**	**18**	White four-sided tower, building; 105.	**AIS** (MMSI No 992471095). Reserve light range 12M.
10792 *E 2182*	Otranto, Punta Craul, N. of port.	40° 09.2´ N 18° 29.5´ 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	Round tower, white lantern; 30.	R. 165°-183°, W.-165°. Reserve light range 11/7M.
10796 *E 2186*	-Punta San Nicola, mole, head.	40° 09.0´ N 18° 29.6´ E	**Fl.R.** period 3s fl. 1s, ec. 2s	36 **11**	8	Pedestal, red lantern; 20.	Safety distance 60m.
10800 *E 2188*	**Torre Sant' Andrea.**	40° 15.4´ 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°. **AIS** (MMSI No 992471096). Reserve light range W. 11M, R. 8M.
10804 *E 2190.5*	San Foca di Melendugno.	40° 18.3´ N 18° 24.3´ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s		5	Green post.	Private light.

(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° 23.5´ N 18° 18.4´ E	**L.Fl.W.** period 5s fl. 2s, ec. 3s	82 **25**	**16**	White tower, building; 75.	Visible 140°-315°. **AIS** (MMSI No 992471097). Reserve light range 12M.
	BRINDISI:						
10812 *E 2194*	-Capo di Torre Cavallo.	40° 39.7´ N 18° 02.2´ E	**Q.(3)W.**	16 **5**	5	E. CARDINAL BYB, articulated beacon, topmark.	**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 tower, red lantern, white building.	Visible 349°-252°.
10822 *E 2208*	**-Brindisi-Casale** AVIATION LIGHT.	40° 39.5´ N 17° 56.5´ E	**Al.Fl.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**	Framework tower; 33.	Private light.
10822.5 *E 2198*	-Main breakwater, head.	40° 39.8´ N 17° 59.8´ E	**Fl.(2)G.** period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	40 **12**	8	Green pole.	Private light.
	RACON		**B(– • • •)**				
10823 *E 2200*	**-Isola Sant' Andrea.**	40° 39.5´ N 17° 58.2´ E	**Dir.W.R.G.**	98 **30**	**20**	Post; 82.	F.G. 258°58′-260°16′, Al.W.G.-261°10′, F.W.-261°46′, Al.W.R.-262°40′, F.R.-263°58′. 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, castle; 82.	**AIS** (MMSI No 992471098). Reserve light range 18M.
10824 *E 2204*	--S., N. breakwater, head.	40° 39.2´ N 17° 58.1´ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	36 **11**	8	Green round tower; 29.	F.R. 5M on radio antenna 760 meters NNE.
10828 *E 2203.5*	-Diga di Costa Morena, N. breakwater, head.	40° 39.1´ N 17° 58.4´ E	**F.R.**	23 **7**	5	Red post.	Private light.
10830 *E 2203*	-Molo Montecatini Edison, head.	40° 39.0´ N 17° 58.9´ E	**2 F.R.** (vert.)	36 **11**	5	Red post; 16.	1 meter apart. Private light.
	-Canale Pigonati:						
10832 *E 2212*	--Inner harbor entrance, E. side.	40° 38.7´ N 17° 57.2´ E	**Iso.R.** period 2s	30 **9**	5	Hut, red lantern; 20.	
10836 *E 2210*	---W. side.	40° 38.7´ N 17° 57.1´ E	**Iso.G.** period 2s	30 **9**	5	Hut, green lantern; 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° 38.7´ N 17° 57.0´ E	**F.G.**	33 **10**	4	Green post; 26.	Visible 227°-070°.
10848 *E 2217*	--Galleggianti, E. pier, head.	40° 38.5´ 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° 50.5´ N 17° 28.1´ E	**Fl.(2)W.** period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	115 **35**	**16**	White tower, building; 104.	**AIS** (MMSI No 992471099). 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				
10860 *E 2223*	Savelletri.	40° 52.4´ N 17° 24.8´ E	**Fl.G.** period 5s fl. 1s, ec. 4s	26 **8**	3	Green post; 13.	Private light.
10864 *E 2223.4*	-S. mole, head.	40° 52.5´ N 17° 24.8´ E	**Fl.R.** period 5s fl. 1s, ec. 4s	26 **8**	3	Red post; 16.	Private light.
10868 *E 2224*	Monopoli, Molo Margherita, head.	40° 57.3´ N 17° 18.3´ E	**Fl.R.** period 3s fl. 1s, ec. 2s	48 **15**	8	Red tower, white bands; 49.	
10872 *E 2226*	-N. mole, head.	40° 57.4´ N 17° 18.4´ E	**Fl.G.** period 3s fl. 1s, ec. 2s	43 **13**	8	Green framework tower; 33.	
10876 *E 2228*	Mola di Bari, breakwater, head.	41° 03.6´ N 17° 06.0´ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	46 **14**	7	Green framework tower, white hut; 36.	Safety distance 35m.
10880 *E 2228.5*	-E. mole, head.	41° 03.7´ N 17° 06.1´ E	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s	46 **14**	8	Pedestal, red lantern; 20.	
10884 *E 2230*	Cala Portecchia, outer mole, head.	41° 03.7´ N 17° 06.0´ E	**F.R.**	26 **8**	5	Red post; 20.	Private light.
10886 *E 2230.4*	-N. mole, head.	41° 03.8´ N 17° 05.3´ E	**F.G.**	26 **8**	5	Green post; 20.	Private light.
10888 *E 2231*	Torra Mare (Torre Pelosa).	41° 05.4´ N 16° 59.9´ E	**F.R.**	31 **9**	3	Red post; 26.	F.G. shown from inner breakwater. Private light.
10892 *E 2232*	**Punta San Cataldo.**	41° 08.3´ N 16° 50.7´ E	**Fl.(3)W.** period 20s fl. 0.2s, ec. 3.8s fl. 0.2s, ec. 3.8s fl. 0.2s, ec. 11.8s	218 **66**	**24**	White tower, two-story building; 203.	Oc.R. shown about 0.7 km. WSW. 2 Fl.R. 2.5s 57m on radio antennas 2.2 miles ESE. Reserve light range 18M.
10896 *E 2233*	Nuovo Molo Foraneo, 5th arm, head.	41° 08.9´ N 16° 50.9´ E	**Fl.R.** period 3s fl. 1s, ec. 2s	39 **12**	7	Pedestal, red lantern; 20.	
10900 *E 2236*	Nuovo Molo Foraneo, 3rd arm, head.	41° 08.6´ N 16° 51.3´ E	**Fl.R.** period 5s fl. 1s, ec. 4s	16 **5**	4	Pedestal, red lantern; 13.	Visible 273°-129°.
10904 *E 2241*	-Inner spur, head.	41° 08.5´ N 16° 52.0´ E	**Fl.R.** period 5s fl. 1s, ec. 4s	23 **7**	3	Red post; 16.	
10908 *E 2234*	Molo San Cataldo, head.	41° 08.5´ N 16° 51.2´ E	**Fl.G.** period 3s fl. 1s, ec. 2s	36 **11**	7	Green metal framework tower, square base; 26.	
10916 *E 2240*	Molo di Ridosso, head.	41° 08.4´ N 16° 52.0´ E	**Fl.G.** period 5s fl. 1s, ec. 4s	26 **8**	3	Green post; 20.	
10920 *E 2238*	Vecchio Molo Foraneo, head.	41° 08.2´ N 16° 51.7´ E	**F.R.**	36 **11**	4	Red post; 13.	
10924 *E 2243*	Molo S. Vito, head.	41° 08.0´ N 16° 51.9´ E	**Fl.Y.** period 2s fl. 0.5s, ec. 1.5s	26 **8**	3	Yellow post; 20.	
10928 *E 2242*	Molo Pizzoli, head.	41° 08.0´ N 16° 51.7´ E	**F.G.**	36 **11**	4	Green post; 13.	
10932 *E 2244*	Molo San Antonio.	41° 07.6´ N 16° 52.8´ E	**Fl.G.** period 5s fl. 1s, ec. 4s	56 **17**	9	White round tower, green bands; 46.	Visible 190°-130°.
10936 *E 2246*	Santo Spirito, entrance, N. side.	41° 10.0´ N 16° 45.0´ E	**2 F.G.** (vert.)	33 **10** 26 **8**	3	Green post; 26.	2 meters apart. Private light.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			ITALY-EAST COAST				
10940 *E 2246.2*	-Entrance, S. side.	41° 09.9´ N 16° 45.0´ E	**2 F.R.** (vert.)	33 **10** 26 **8**	3	Red post; 26.	2 meters apart. Private light.
10944 *E 2247*	Giovinazzo, W. breakwater.	41° 11.5´ N 16° 40.4´ E	**F.G.**	26 **8**	4	Green post; 20.	Private light.
10948 *E 2247.3*	-E. breakwater.	41° 11.4´ N 16° 40.4´ E	**F.R.**	26 **8**	4	Red post; 20.	Private light.
10952 *E 2248*	**Molfetta.**	41° 12.5´ N 16° 35.7´ E	**Iso.W.** period 6s	72 **22**	**16**	White octagonal tower; 59.	Reserve light range 12M.
10956 *E 2252*	-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 *E 2250*	-Detached breakwater, head.	41° 12.8´ N 16° 35.4´ E	**Fl.G.** period 5s fl. 0.5s, ec. 4.5s	43 **13**	7	Pedestal, green lantern; 20.	Safety distance 30m.
10964 *E 2254*	-Molo Pennello, head.	41° 12.5´ N 16° 35.5´ E	**F.G.**	16 **5**	4	Green pylon, hut; 10.	
10968 *E 2258*	Bisceglie, W. mole, head.	41° 14.7´ N 16° 30.4´ E	**F.R.**	33 **10**	1	Red tower; 20.	Visible 280°-230°. Private light.
	TRANI:						
10972 *E 2261*	-Molo San Antonio, 20 meters from head of extension.	41° 16.9´ N 16° 25.2´ E	**L.Fl.R.** period 5s fl. 2s, ec. 3s	33 **10**	8	Tower; 26.	
10976 *E 2260*	-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 *E 2262*	-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 *E 2264*	**-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.	**AIS** (MMSI No 992471100). Reserve light range 12M.
10988 *E 2266*	- -At head.	41° 19.8´ N 16° 17.5´ E	**Fl.G.** period 4s fl. 1s, ec. 3s	39 **12**	8	Pedestal, green lantern; 23.	Visible 160°-080°. F.G. marks head of breakwater 280 meters NNW.
10992 *E 2263.5*	-Church.	41° 19.0´ N 16° 16.4´ E	**F.W.**		10	Cupola.	
10996 *E 2268*	-Diga di Levante, head.	41° 20.0´ N 16° 17.7´ E	**Fl.R.** period 4s fl. 1s, ec. 3s	39 **12**	8	Pedestal, red lantern; 20.	
11000 *E 2274.4*	Margherita de Savoia, outer mole, head.	41° 23.4´ N 16° 08.0´ E	**Fl.R.** period 5s fl. 1s, ec. 4s	26 **8**	4	Red post; 20.	Private light.
11004 *E 2274.6*	-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 *E 2275*	Foce Aloisa, pier, head.	41° 26.0´ N 16° 00.6´ E	**F.R.**	52 **16**	3	Red post, white hut.	Private light.
11012 *E 2276*	**Manfredonia.**	41° 37.7´ N 15° 55.4´ E	**Fl.W.** period 5s fl. 0.2s, ec. 4.8s	66 **20**	**23**	Tower, two-story building; 59.	May be lost in background lights at 11 miles or less. **AIS** (MMSI No 992471103). 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				
11016 *E 2277*	-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 cylindrical tower, green bands, green triangular daymark point up; 39.	
11020 *E 2278*	-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 cylindrical tower, red bands, red square daymark; 33.	
11024 *E 2281*	-Industrial Port, outer mole, head.	41° 36.8´ N 15° 57.0´ E	**Oc.G.** period 3s lt. 2s, ec. 1s	33 **10**	7	Pedestal, green lantern; 16.	Private light.
11028 *E 2282*	--Inner mole, head.	41° 37.0´ N 15° 56.9´ E	**Oc.R.** period 3s lt. 2s, ec. 1s	33 **10**	7	Pedestal, red lantern; 16.	Private light.
11032 *E 2284*	Mattinata, on Punta Agnuli.	41° 42.6´ N 16° 04.8´ E	**F.G.**	26 **8**	3	Green post; 20.	Private light.
11036 *E 2286*	**Torre Preposti.**	41° 46.9´ N 16° 11.6´ E	**Fl.W.** period 5s fl. 1s, ec. 4s	203 **62**	**15**	Red tower, white house; 72.	Visible 186°-020°. **AIS** (MMSI No 992471102). Reserve light range 12M.
11040 *E 2288*	**Vieste.**	41° 53.2´ 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**	Tower, two-story building; 89.	Visible 124°-348°. **AIS** (MMSI No 992471101). Reserve light range 18M.
11044 *E 2288.4*	-Cala San Lorenzo, head.	41° 53.2´ N 16° 10.7´ E	**F.R.**	23 **7**	4	Red post; 16.	
11052 *E 3586*	**Otok Palagruza** (Cr.).	42° 23.5´ N 16° 15.3´ E	**Fl.W.** period 17.5s fl. 0.8s, ec. 16.7s	361 **110**	**26**	Stone tower, building; 72.	Reserve light range 12M. **AIS** (MMSI No 992381030).
11056 *E 3588*	-Near main light (Cr.).	42° 23.5´ N 16° 15.3´ E	**Iso.R.** period 2s	315 **96**	5	White column; 26.	Visible 264°-304°. **AIS** (MMSI No 238645810).
11060 *E 2300*	Isola Pianosa.	42° 13.5´ N 15° 44.8´ E	**Fl.(2)W.** period 10s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	82 **25**	10	White framework tower, 56.	
	ISOLE DI TREMITI:						
11064 *E 2296*	-Isola Caprara.	42° 08.3´ N 15° 31.2´ E	**Fl.W.** period 5s fl. 1s, ec. 4s	75 **23**	4	White framework tower; 33.	
11068 *E 2298*	-Isola San Nicola, Tremiti, mole, head.	42° 07.1´ N 15° 30.1´ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	30 **9**	3	Green post; 23.	
11072 *E 2297*	-Isola San Nicola.	42° 07.4´ N 15° 30.5´ E	**Fl.(4)W.** period 15s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 8s	285 **87**	12	White framework tower, red bands; 49.	Reserve light range 7M.
11076 *E 2294*	-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; 52.	Visible 300°-175°.
	TERMOLI:						
11080 *E 2303*	**-Termoli.**	42° 00.4´ N 14° 59.9´ E	**Fl.(2)W.** period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	135 **41**	**15**	White four-sided structure; 56.	Reserve light range 11M.
11084 *E 2304*	-Molo Nord, outer head.	42° 00.4´ N 15° 00.7´ E	**Fl.G.** period 3s fl. 1s, ec. 2s	36 **11**	8	Pedestal, green lantern; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			ITALY-EAST COAST				
11088 *E 2304.2*	--Inner head.	42° 00.2´ N 15° 00.1´ E	**F.G.**	26 **8**	3	Green lantern; 20.	Visible 290°-135°.
11092 *E 2305*	-Molo Sud, head.	42° 00.1´ N 15° 00.1´ E	**Fl.(2)Y.** period 6s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 3.5s	30 **9**	8	Platform, yellow lantern; 23.	Safety distance 40m.
11100 *E 2306*	**Punta della Penna.**	42° 10.2´ N 14° 42.9´ E	**Fl.W.** period 5s fl. 0.2s, ec. 4.8s	277 **84**	**25**	Tower, two-story building; 230.	**AIS** (MMSI No 992471104). Reserve light range 18M.
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 lantern; 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	Beacon; 20.	Visible 309°-203°.
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 lantern; 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	Beacon; 20.	Visible 169°-015°.
11124 *E 2308*	San Vito Chietino, pier, head.	42° 19.0´ N 14° 27.0´ E	**F.R.**	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 tower, building; 78.	**AIS** (MMSI No 992471105). Reserve light range 11M.
11132 *E 2313*	--Near head.	42° 21.1´ N 14° 25.4´ E	**F.G.**	30 **9**	5	Green tower; 16.	Visible 210°-140°.
11136 *E 2315*	-Molo a Martello, E. corner, head.	42° 21.3´ N 14° 24.9´ E	**F.G.**	26 **8**	3	Pedestal, green lantern; 20.	
11138 *E 2315.1*	-Mandracchio, head.	42° 21.4´ N 14° 24.6´ E	**F.R.**				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° 27.9´ N 14° 19.3´ E	**Oc.(2)Y.** period 10s lt. 2s, ec. 1s lt. 6s, ec. 1s	66 **20**	5	Framework tower, dwelling; 75.	**Horn:** Mo.(R) ev. 45s. Private light.
	PESCARA:						
11143 *E 2315.7*	-Detached breakwater, W. head.	42° 28.4´ N 14° 13.6´ E	**Fl.R.** period 6s fl. 1s, ec. 5s	33 **10**	5	Pedestal, red lantern; 20.	
11143.5 *E 2315.72*	--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	Pedestal, green lantern; 20.	
11145 *E 2316*	-Marina, breakwater, head.	42° 28.2´ N 14° 13.9´ E	**Fl.G.** period 5s fl. 0.5s, ec. 4.5s	30 **9**	4	Green post.	Private light.
11146 *E 2316.35*	-Lighthouse.	42° 28.0´ N 14° 13.7´ E	**Fl.(3)W.** period 20s fl. 0.2s, ec. 3.8s fl. 0.2s, ec. 3.8s fl. 0.2s, ec. 11.8s	39 **12**	**17**	White two-story building; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			ITALY-EAST COAST				
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	Pedestal, red lantern; 36.	
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	Pedestal, green lantern; 36.	
	GIULIANOVA:						
11156 *E 2324*	-Molo Sud, head.	42° 45.3´ N 13° 58.8´ E	**Fl.R.** period 5s fl. 0.5s, ec. 4.5s	26 **8**	4	Pedestal, red lantern; 23.	Private light.
11164 *E 2326*	-Molo Nord, head.	42° 45.2´ N 13° 58.7´ E	**Fl.G.** period 5s fl. 0.5s, ec. 4.5s	26 **8**	4	Pedestal, green lantern; 23.	Private light.
11168 *E 2326.2*	--Spur, head.	42° 45.2´ N 13° 58.6´ E	**F.G.**		2		**Horn:** Mo.(G) ev. 45s. Private light.
11172 *E 2335*	Fiume Tronto, S. side.	42° 53.6´ N 13° 55.3´ E	**2 F.R.** (vert.)	39 **12**	3	Red post; 26.	2 meters apart. Private light.
11176 *E 2332*	**San Benedetto del Tronto.**	42° 57.2´ 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 cylindrical tower, building; 102.	Visible 135°-045°. **AIS** (MMSI No 992471106). Reserve light range 18M.
11180 *E 2333*	-N. mole, head.	42° 57.2´ N 13° 53.2´ E	**Fl.G.** period 3s fl. 1s, ec. 2s	26 **8**	8	Pedestal, green lantern; 23.	
11184 *E 2334*	-S. mole, head.	42° 57.2´ N 13° 53.5´ E	**Fl.R.** period 3s fl. 1s, ec. 2s	26 **8**	8	Pedestal, red lantern; 20.	**Horn:** Mo.(W) ev. 45s.
11188 *E 2336*	**Pedaso,** about 1 km. S. of village.	43° 05.5´ 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, building; 69.	**AIS** (MMSI No 992471107). Reserve light range 12M.
11190 *E 2337*	Porto San Giorgio, outer mole.	43° 10.3´ N 13° 48.7´ E	**Fl.(2)R.** period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	26 **8**	5	Red post; 20.	**Horn:** Mo.(U) ev. 45s. Private light.
11192 *E 2337.2*	-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 *E 2339*	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 *E 2338*	-E. mole, head.	43° 18.9´ N 13° 43.9´ E	**Fl.R.** period 5s fl. 1s, ec. 4s	33 **10**	8	Pedestal, red lantern; 20.	
11204 *E 2338.2*	--On spur, extending W. from head.	43° 18.7´ N 13° 44.0´ E	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s	23 **7**	4	Red post, 16.	
11208 *E 2337.6*	-Chiesa di Cristo Re.	43° 18.7´ N 13° 43.6´ 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 *E 2343*	-Scogliera I Travi.	43° 34.8´ N 13° 34.7´ E	**Fl.Y.** period 5s fl. 0.5s, ec. 4.5s	10 **3**	2	SPECIAL Y, beacon, "X" 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 *E 2344*	**-Colle Cappuccini.**	43° 37.4´ 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**	Gray tower, white stripe; 49.	Obscured S. of bearing 306°. Visible 121°30′-120°. **AIS** (MMSI No 992471108). Reserve light range 18M.
11220 *E 2349*	-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 *E 2346*	-Molo Foraneo Nord, head.	43° 37.5´ N 13° 29.6´ E	**Fl.R.** period 4s fl. 1s, ec. 3s	36 **11**	8	Red tower; 20.	Visible 277°-224°.
	-RACON		**A(• –)**		6		(3 & 10cm).
11225 *E 2346.5*	-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**	7	Pedestal, red lantern; 20.	
11226 *E 2346.7*	--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	33 **10**	7	Pedestal, green lantern; 20.	
11228 *E 2347*	-Molo Nord, spur, W. head.	43° 37.5´ N 13° 29.9´ E	**F.R.**	23 **7**	3	Red post; 23.	
11232 *E 2348*	--E. end.	43° 37.4´ N 13° 30.0´ E	**Fl.R.** period 3s fl. 1s, ec. 2s	26 **8**	8	Pedestal, red lantern; 23.	
11236 *E 2350*	-Molo Sud.	43° 37.4´ N 13° 29.9´ E	**Fl.G.** period 3s fl. 1s, ec. 2s	36 **11**	8	Pedestal, green lantern; 23.	
11248 *E 2352*	-Naval shipyard breakwater, W. head.	43° 37.7´ N 13° 29.9´ E	**Q.R.**	23 **7**	4	Red post.	Private light.
11252 *E 2352.5*	--N. angle.	43° 37.9´ N 13° 30.2´ E	**F.R.**	23 **7**	3	Red post.	Private light.
	FALCONARA MARITTIMA:						
11256 *E 7471*	-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 *E 7470*	-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 *E 2354*	-Mole, head.	43° 38.9´ N 13° 23.6´ E	**3 F.Y.** (vert.)	33 **10** 26 **8** 23 **7**	2	SPECIAL Y, mast, "X" topmark; 33.	Private light.
	SENIGALLIA:						
11268 *E 2359*	-E. mole, head.	43° 43.3´ N 13° 13.4´ E	**Fl.R.** period 3s fl. 1s, ec. 2s	26 **8**	8	Platform, yellow lantern; 23.	
11276 *E 2358*	**-Molo Di Levante.**	43° 43.3´ N 13° 13.4´ E	**L.Fl.(2)W.** period 15s fl. 3s, ec. 2s fl. 3s, ec. 7s	57 **17**	**15**	White tower, white building, black band; 56.	**AIS** (MMSI No 992471109). Reserve light range 11M.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
	FANO:						
11280 *E 2362*	-Inner part of channel.	43° 51.1´ N 13° 00.9´ E	**Fl.W.** period 5s fl. 1s, ec. 4s	69 **21**	**15**	White tower, two-story building; 66.	**AIS** (MMSI No 992471110). Reserve light range 11M.
11284 *E 2364*	-E. mole, head.	43° 51.2´ N 13° 01.1´ E	**Fl.R.** period 3s fl. 1s, ec. 2s	29 **9**	8	Pedestal, red lantern; 23.	
11288 *E 2366*	-W. mole, head.	43° 51.2´ N 13° 01.0´ E	**Fl.G.** period 3s fl. 1s, ec. 2s	26 **8**	8	Pedestal, green lantern; 23.	
11292 *E 2368*	-Canal entrance, mole, outer head.	43° 51.1´ N 13° 01.0´ E	**Fl.Y.** period 3s fl. 1s, ec. 2s	26 **8**	3	Yellow post.	
	PESARO:						
11296 *E 2372*	**-Monte di San Bartolo.**	43° 55.4´ 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, two-story building; 82.	Obscured S. of bearing 125°. **AIS** (MMSI No 992471111). Reserve light range 18M.
11300 *E 2374*	-45 meters from E. mole, head.	43° 55.5´ N 12° 54.4´ E	**Fl.R.** period 5s fl. 1s, ec. 4s	33 **10**	8	Pedestal, red lantern; 23.	
11304 *E 2376*	-20 meters from W. mole, head.	43° 55.4´ N 12° 54.3´ E	**Fl.G.** period 5s fl. 1s, ec. 4s	33 **10**	8	Pedestal, green lantern; 23.	
11308 *E 2381*	**Cattolica.**	43° 58.1´ N 12° 45.1´ E	**Mo.(O)W.** period 14s fl. 2s, ec. 1s fl. 2s, ec. 1s fl. 2s, ec. 6s	56 **17**	**15**	White four-sided structure, black bands; 56.	**AIS** (MMSI No 992471112). Reserve light range 11M.
11312 *E 2382*	-E. mole, head.	43° 58.2´ N 12° 45.0´ E	**Fl.R.** period 3s fl. 1s, ec. 2s	33 **10**	8	Pedestal, red lantern; 20.	
11316 *E 2384*	-W. mole, head.	43° 58.2´ N 12° 45.1´ E	**Fl.G.** period 3s fl. 1s, ec. 2s	33 **10**	8	Pedestal, green lantern; 20.	
11317 *E 2388*	Porto Verde.	43° 58.0´ N 12° 44.0´ E	**Iso.R.** period 2s		3		Private light.
11318 *E 2388.2*	-Mole, head.	43° 58.4´ N 12° 43.0´ E	**Iso.G.** period 2s		3		Private light.
11320 *E 2390*	Riccione, E. mole, head.	44° 00.5´ N 12° 39.5´ E	**Fl.R.** period 3s fl. 1s, ec. 2s	33 **10**	5	Red structure.	**Horn:** Mo.(M) ev. 45s. Private light.
11324 *E 2394*	**Rimini.**	44° 04.5´ N 12° 34.5´ E	**Fl.(3)W.** period 12s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 5s	89 **27**	**15**	White tower, dwelling; 82.	Visible 160°-280°. Obscured 269°-272° out to 2-7M. **AIS** (MMSI No 992471113). Reserve light range 11M.
11328 *E 2396*	-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	Pedestal, yellow lantern.	
11332 *E 2397*	-W. mole, head.	44° 04.8´ N 12° 34.5´ E	**Fl.G.** period 3s fl. 1s, ec. 2s	23 **7**	8	Pedestal, green lantern; 20.	
11336 *E 2393*	-AVIATION LIGHT.	44° 01.5´ N 12° 37.1´ E	**Al.Fl.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 cylindrical tower; 56.	**AIS** (MMSI No 992471114). Reserve light range 11M.
11344 *E 2405*	-E. mole, head.	44° 12.5´ N 12° 24.2´ E	**Fl.R.** period 5s fl. 1s, ec. 4s	26 **8**	8	Red column, 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, 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	Multi-sided tower; 52.	Obscured outside of channel by high buildings. Private light.
11356 *E 2413*	-N. mole, head.	44° 16.1´ 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° 16.2´ N 12° 21.8´ E	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s	26 **8**	4	Red column, 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° 21.2´ E	**Fl.(2)W.** period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	33 **10**	8	White post, red bands; 52.	Private light.
11374 *E 7522*	-AGIP 4.	44° 27.6´ N 12° 31.4´ E	**Mo.(U)W.** period 15s		6	White platform, red stripes; 20.	**Horn:** Mo.(U) ev. 30s. Private light.
	-RACON		**U(• • –)** period 120s				(3cm).
11375 *E 2417.9*	-Baiona.	44° 29.4´ N 12° 15.9´ E	**Dir.F.W.R.G.**	39 **12**	6	Metal tower; 39.	G. 256°15′-259°36′, W.-260°24′, R.-263°45′.
11376 *E 2418*	**-Corsini.**	44° 29.5´ N 12° 17.0´ E	**Fl.W.** period 5s fl. 0.2s, ec. 4.8s	115 **35**	**20**	White tower, three-story building; 108.	**AIS** (MMSI No 992471115). Reserve light range 18M. Traffic signals. Current signals.
11380 *E 2417.8*	-Approach beacon.	44° 30.0´ N 12° 20.7´ 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° 29.7´ N 12° 18.8´ E	**Fl.(2)R.** period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	33 **10**	8	Red column, 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° 29.9´ N 12° 18.8´ E	**Fl.(2)G.** period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	33 **10**	8	Green column, pedestal; 26.	
11392 *E 2421*	-S. mole, head.	44° 29.6´ N 12° 17.5´ E	**Fl.R.** period 4s fl. 1.5s, ec. 2.5s	24 **7**	8	Red column, pedestal; 20.	**Horn:** Mo.(H) ev. 45s (bl. 2s, si. 2s, bl. 2s, si. 2s, bl. 2s, si. 2s, bl. 2s, si. 31s).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			ITALY-NORTHEAST COAST				
11396 *E 2422*	-N. mole, head.	44° 29.7´ N 12° 17.4´ E	**Fl.G.** period 4s fl. 1.5s, ec. 2.5s	24 **7**	8	Green column, pedestal; 20.	
	PORTO GARIBALDI:						
11400 *E 2426*	-Molo Nord, near root.	44° 40.6´ N 12° 14.7´ 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 cylindrical tower, two-story building; 39.	**AIS** (MMSI No 992471116). 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, 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° 40.6´ N 12° 15.2´ E	**Fl.R.** period 5s fl. 1s, ec. 4s	30 **9**	8	Red column, pedestal; 23.	
11420 *E 2433*	--Entrance, E. side.	44° 50.4´ N 12° 17.4´ 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° 47.5´ N 12° 23.8´ E	**Fl.(2)W.** period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	72 **22**	**17**	White tower; 79.	**AIS** (MMSI No 992471117). 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. F.R. lights on chimney stacks 2m WSW. **AIS** (MMSI No 992471120).
11438 *E 2441*	-Beacon, 2.5 miles ESE of Punta della Maestra.	44° 57.8´ N 12° 35.4´ 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° 04.2´ 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° 23.3´ E	**Iso.Y.** period 2s	16 **5**	6	SPECIAL Y, articulated beacon, "X" topmark.	Private light.
11451 *E 2444.7*	--Off shore, E.	45° 05.1´ N 12° 35.3´ 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° 17.8´ E	**L.Fl.(2)W.** period 10s fl. 2s, ec. 2s fl. 2s, ec. 4s	66 **20**	**15**	White framework tower; 59.	**AIS** (MMSI No 992471118). Reserve light range 11M.
11456 *E 2451*	--120 meters NNW. on NW. extremity of fort.	43° 13.9´ N 12° 17.4´ E	**Fl.(2)R.** period 7s fl. 1s, ec. 1s fl. 1s, ec. 4s	19 **6**	8	Red hut; 13.	**Horn:** 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° 18.8´ E	**Fl.G.** period 3s fl. 1s, ec. 2s	36 **11**	8	Green column, pedestal; 26.	Visible 302°-342°. **Horn:** Mo.(K) ev. 45s.
			F.G.	20 **6**	6		Visible 302°-342°.
	-RACON		**K(– • –)** period 30s		6		(3cm).
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, pedestal; 26.	Visible 313°-257°.
			F.R.	20 **6**	6		Visible 257°-313°.
11476 *E 2458*	-Canale San Domenico.	45° 13.4´ N 12° 17.0´ 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.	**Horn:** Mo.(U) 30s (bl. 1s, si. 2s, bl. 1s, si. 2s, bl. 2s, si. 22s). Private light.
11484 *E 2465*	Malamocco Approach Beacon.	45° 19.5´ N 12° 23.0´ 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*	**-Rochetta.**	45° 20.4´ 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 round tower, black stripe, platform; 75.	Reserve light range 11M. **AIS** (MMSI No 992471119).
11490 *E 2463*	-Fort Rocchetta. pilot tower.	45° 20.4´ N 12° 18.7´ E	**Dir.W.R.G.**	98 **30**	6	White tower; 115.	F.G. 285°-287°, F.W.-288°, F.R.-290°.
11492 *E 2464.4*	-Beacon.	45° 20.3´ N 12° 18.7´ E	**Fl.(3)G.** period 10s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	20 **6**	7	Green hut, platform.	
11496 *E 2467*	-S. mole, head.	45° 19.9´ N 12° 20.2´ 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° 20.6´ E	**Fl.G.** period 5s fl. 1s, ec. 4s	59 **18**	8	Green tower, white two-story building, green top; 62.	
11504 *E 2468*	Palata delle Ceppe, entrance, S. side.	45° 20.1´ N 12° 19.0´ E	**Fl.(3)R.** period 10s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	36 **11**	5	Red column, 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 *E 2480*	-N. breakwater, head.	45° 25.4′ 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; 82.	Reserve light range 11M. Fl.R. 2.5s 96m lights on two antennas 7M WNW. **Horn:** Mo.(N) ev. 45s (bl. 4s, si. 2s, bl. 2s, si. 37s).
			Fl.(2)G. period 8s fl. 1s, ec. 1s fl. 1s, ec. 5s	46 **14**	7		
			F.G.	16 **5**	6		Visible 348°-040°.
	-RACON		**V(• • • –)**		6		(3 & 10cm).
11520 *E 2484*	-S. breakwater, head.	45° 25.1′ N 12° 25.6′ E	**Fl.R.** period 3s fl. 1s, ec. 2s	46 **14**	8	Red round tower; 46.	Visible 013°-290°.
			F.R.	16 **5**	6		Visible 290°-013°.
11524 *E 2486*	-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, platform; 33.	
11528 *E 2486.1*	**--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	115 **35**	**20**	White cylindrical tower, black and white bands on E. side; 115.	
			Oc.W. period 6s	121 **37**	**17**		Visible 300°10′-301°10′. **AIS** (MMSI No 992471121). Reserve light range 11M.
11530 *E 2488.4*	-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, topmark.	**Radar reflector.**
11531 *E 2488.5*	-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, topmark.	**Radar reflector.**
11532 *E 2485*	-Beacon, 1.5 km. 315° from S. breakwater.	45° 25.6′ N 12° 24.9′ E	**Fl.R.** period 2s fl. 0.5s, ec. 1.5s	20 **6**	5	Red hut, platform.	
11534 *E 2488.7*	-2nd Port Articulated Beacon.	45° 25.9′ N 12° 24.3′ E	**Fl.R.** period 2s fl. 0.5s, ec. 1.5s	20 **6**	5	PORT (A) R, articulated beacon, topmark.	**Radar reflector.**
11535 *E 2488.8*	-2nd Starboard Articulated Beacon.	45° 26.0′ N 12° 24.4′ E	**Fl.G.** period 2s fl. 0.5s, ec. 1.5s	20 **6**	5	STARBOARD (A) G, articulated beacon, topmark.	**Radar reflector.**
11536 *E 2488*	-Beacon, 375 meters 080° from new semaphore station.	45° 26.1′ N 12° 23.6′ E	**Fl.R.** period 4s fl. 1s, ec. 3s	20 **6**	5	Red hut, platform.	
11540 *E 2490*	--Channel, N. side.	45° 26.2′ N 12° 23.1′ E	**Fl.G.** period 4s fl. 1s, ec. 3s	20 **6**	5	Green hut, platform.	
11544 *E 2489*	---S. side.	45° 26.1′ N 12° 23.2′ E	**Fl.R.** period 4s fl. 1s, ec. 3s	20 **6**	5	Red hut, platform.	
11545 *E 2490.8*	-Articulated beacon.	45° 25.6′ 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, "X" topmark.	**Radar reflector.**
11546 *E 2491*	-Articulated beacon.	45° 25.4′ N 12° 22.2′ E	**Fl.G.** period 5s fl. 1s, ec. 4s	20 **6**	5	Green articulated beacon, triangular daymark point up.	**Radar reflector.**
11548 *E 2492*	-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. 1.5s fl. 1s, ec. 6.5s	23 **7**	5	Red hut, platform.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			ITALY-NORTHEAST COAST				
11556 *E 2504*	**Porto di Piave Vecchia.**	45° 28.7´ N 12° 35.0´ E	**Fl.(4)W.** period 20s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 13.5s	147 **45**	**15**	White cylindrical tower, black bands, building; 157.	**AIS** (MMSI No 992471122).
11557 *E 2504.2*	-Fiume Sile.	45° 28.8´ N 12° 35.0´ E	**Fl.(2)G.** period 6s fl. 0.3s, ec. 1.7s fl. 0.3s, ec. 3.7s	16 **5**	4	STARBOARD (A) G, post, topmark.	Fl.(2)R. 6s shown nearby. Private light.
11558 *E 2505.1*	Porto di Cortellazzo, Fiume Piave, W. side.	45° 31.8´ N 12° 43.6´ E	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s	23 **7**	4	Red post, 16.	Private light.
11560 *E 2506*	Porto di Santa Margherita, W. jetty, head.	45° 35.1´ N 12° 52.1´ E	**Fl.R.** period 3s fl. 1s, ec. 2s		3	Red post; 20.	Private light.
11564 *E 2506.4*	-E. jetty, head.	45° 35.1´ N 12° 52.2´ E	**Fl.G.** period 3s fl. 1s, ec. 2s		3	Green post; 20.	Private light.
11568 *E 2508*	Caorle, church of Madonna degli Angeli.	45° 36.0´ N 12° 53.6´ E	**Fl.(2)W.** period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	39 **12**	14	Tower; 30.	Reserve light range 10M.
11572 *E 2518*	**Punta Tagliamento.**	45° 38.2´ N 13° 05.8´ E	**Fl.(3)W.** period 10s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	72 **22**	**15**	White cylindrical tower, building; 69.	2 F.R. (vert.) shown from pier head 4 kilometers N. **AIS** (MMSI No 992471123). Reserve light range 11M.
11574 *E 2519.5*	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 *E 2521*	Porto Lignano, pier, head.	45° 41.9´ 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 5M N. on Marano bridge.
11580 *E 2520*	-Beacon, about 0.5 km. 092° from pier.	45° 41.8´ 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 *E 2520.4*	-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 *E 2520.5*	- -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 *E 2524*	-Fiume Aussa, entrance, E. side.	45° 43.1´ N 13° 15.0´ 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 *E 2524.7*	-E. breakwater, head.	45° 42.3´ N 13° 15.2´ E	**Fl.G.** period 5s fl. 1s, ec. 4s	16 **5**	4	Green hut; 7.	
11600 *E 2524.5*	-W. breakwater, head.	45° 42.4´ N 13° 14.8´ E	**Fl.R.** period 5s fl. 1s, ec. 4s	16 **5**	4	Red hut; 7.	
11604 *E 2524.3*	-About 750 meters NNW. of E. entrance.	45° 43.3´ N 13° 14.8´ E	**Fl.W.G.** period 2s fl. 0.5s, ec. 1.5s	16 **5**	W. 4 G. 2	Green hut, dolphin; 16.	W. 346°-351°, G.-346°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
	PORTO DI GRADO:						
11608 *E 2525.7*	-Articulated beacon.	45° 39.6´ N 13° 20.9´ E	**Fl.W.** period 10s fl. 1s, ec. 9s	16 **5**	6	SAFE WATER RW, beacon, topmark.	**Radar reflector.**
11612 *E 2526*	-Canale di Grado, entrance, S. side.	45° 40.8´ N 13° 22.0´ E	**Fl.W.R.** period 3s fl. 1s, ec. 2s	16 **5**	W. 7 R. 5	Platform, red lantern; 16.	R. 193°-031°, W.-036°. **Horn:** (at head of E. dike) Mo.(K) ev. 45s (bl. 4s, si. 2s, bl. 2s, si. 2s, bl. 4s, si. 31s).
11616 *E 2528*	-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	Platform, red lantern; 20.	
11620 *E 2530*	-Canale di Grado, S. side.	45° 41.0´ N 13° 22.6´ E	**Fl.G.** period 3s fl. 1s, ec. 2s	16 **5**	3	Platform, green post; 16.	
11624 *E 2534*	-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 post; 16.	
11628 *E 2536*	-Canale di Belvedene, E. side.	45° 41.0´ N 13° 23.2´ E	**F.G.**	23 **7**	3	Green lantern; 16.	
11630 *E 2537.5*	-End of pipeline.	45° 40.3´ N 13° 23.7´ E	**Fl.Y.** period 3s fl. 0.3s, ec. 2.7s	20 **6**	4	Post.	Private light. **Radar reflector.**
11632 *E 2538*	Branco Molo di Muggia, beacon, near bank, S. head.	45° 39.3´ N 13° 26.3´ E	**Q.(6)+L.Fl.W.** period 15s	23 **7**	6	S. CARDINAL YB, beacon, topmark; 26.	**Radar reflector.**
11634 *E 2540*	Punta Sdobba, shoal.	45° 43.3´ N 13° 34.3´ E	**Fl.R.** period 5s fl. 1s, ec. 4s	23 **7**	4	Red truncated conical tower; 23.	
11635 *E 2543*	-Articulated beacon.	45° 44.6´ N 13° 36.4´ E	**Fl.W.** period 10s fl. 1s, ec. 9s	16 **5**	6	SAFE WATER RW, beacon, topmark.	**Radar reflector.**
11636 *E 2544*	-Channel, W. side.	45° 45.3´ N 13° 35.2´ E	**Fl.(2)R.** period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	20 **6**	4	Concrete tower; 20.	W. side of channel marked by 2 lights Fl.R. 5s 5M, Fl.(2)R. 10s 5M. **Radar reflector.**
11640 *E 2545*	--E. side.	45° 45.3´ N 13° 35.3´ E	**Fl.(2)G.** period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	20 **6**	4	Concrete tower; 20.	E. side of channel marked by 2 lights Fl.G. 5s 5M, Fl.(2)G. 10s 5M. **Radar reflector.**
11644 *E 2548*	Duino, mole, head.	45° 46.4´ N 13° 35.9´ E	**F.G.**	23 **7**	3	Green post; 20.	Private light.
11648 *E 2547*	-Canale San Giovanni, about 0.5 mile NW. of Duino.	45° 46.5´ N 13° 35.5´ E	**Fl.(2)G.** period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	16 **5**	4	Platform, green hut; 7.	
11652 *E 2550*	Sistiana, head of W. breakwater.	45° 46.1´ N 13° 37.6´ E	**F.R.**	26 **8**	3	Red post; 23.	Safety distance 15m. Private light.
11656 *E 2551*	-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 *E 2553*	Santa Croce di Trieste, boat basin mole, head.	45° 43.6´ N 13° 41.4´ E	**F.G.**	24 **7**	3	Green lantern; 16.	Private light.
11664 *E 2554*	Valle Grignano, pier, head.	45° 42.4´ N 13° 42.7´ E	**F.G.**	20 **6**	3	Green post.	Private light.
11668 *E 2555*	Cedas breakwater, head.	45° 41.6´ N 13° 44.2´ E	**F.G.**	20 **6**	4	Pedestal, green lantern; 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 *E 2556*	Barcola.	45° 40.9´ N 13° 45.0´ E	**F.G.**	26 **8**	4	Green post; 23.	Private light.
	PORTO DI TRIESTE:						
11676 *E 2558*	**-Vittoria.**	45° 40.5´ N 13° 45.4´ 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, bronze figure on top; 223.	Reserve light range 18M. Fl.R. 2.5s 87m on radio antenna 0.4M E. Oc.R. 110m on radio antenna 1.8M E. **AIS** (MMSI No 992471124).
	-Porto Franco Vecchio:						
11680 *E 2560*	--Detached breakwater, S. head.	45° 39.3´ N 13° 45.7´ E	**Fl.R.** period 3s fl. 1s, ec. 2s	23 **7**	6	Red lantern; 23.	
11684 *E 2561*	--Spur, head.	45° 39.8´ N 13° 45.5´ E	**F.G.**	23 **7**	3	Green hut, lantern; 16.	Visible 130°-040°.
11688 *E 2562*	--Detached breakwater, N. head.	45° 39.8´ N 13° 45.4´ E	**Fl.G.** period 3s fl. 1s, ec. 2s	33 **10**	8	Green hut, lantern; 13.	
11696 *E 2568*	--Molo Fratelli Bandiera Breakwater, head.	45° 38.9´ N 13° 45.1´ E	**Fl.R.** period 5s fl. 0.5s, ec. 4.5s	23 **7**	5	Red post; 13.	
11700 *E 2565*	--Breakwater, E. head.	45° 39.0´ N 13° 45.6´ E	**Fl.(2)G.** period 4s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2s	23 **7**	5	Green post; 16.	
11706 *E 2557*	-Outfall.	45° 38.6´ N 13° 40.9´ E	**Fl.Y.** period 3s fl. 0.5s, ec. 2.5s	16 **5**	5	Yellow beacon.	Private light. **Radar reflector.**
	-Emanuele Filiberto Duca d'Acosta Basin:						
11708 *E 2576*	--N. detached breakwater, N. head.	45° 38.8´ N 13° 44.2´ E	**Fl.(2)G.** period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	30 **9**	5	Green pedestal, lantern; 23.	
11712 *E 2578*	---S. head.	45° 38.3´ N 13° 44.4´ E	**Fl.R.** period 3s fl. 1s, ec. 2s	30 **9**	8	Red pedestal, lantern; 23.	
11716 *E 2588*	--Mole No 5, NW. corner.	45° 38.4´ N 13° 44.6´ E	**F.G.**	23 **7**	4	Green post; 16.	
11717 *E 2588.2*	---SW. corner.	45° 38.3´ N 13° 44.7´ E	**F.R.**	23 **7**	4	Red post; 16.	
11724 *E 2580*	--Middle detached breakwater, N. head.	45° 38.2´ N 13° 44.2´ E	**Fl.G.** period 3s fl. 1s, ec. 2s	31 **9**	5	Green pedestal, lantern; 23.	
11728 *E 2582*	---S. head.	45° 38.0´ N 13° 44.3´ E	**Iso.R.** period 2s	31 **9**	5	Red pedestal, lantern; 23.	Visible 198°-148°.
11732 *E 2586*	-Diga Luigi Rizzo, N. head.	45° 37.9´ N 13° 44.1´ E	**Iso.G.** period 2s	21 **6**	5	Green pedestal, lantern; 16.	Visible 018°-328°.
11736 *E 2587*	--S. head.	45° 37.0´ N 13° 44.3´ E	**Fl.(3)R.** period 10s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	30 **9**	5	Red pedestal, lantern; 23.	
11748 *E 2593*	-Servola, Banchina Italsider, NW. corner.	45° 37.2´ N 13° 46.5´ 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	*-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 *E 2601*	-Trieste-Ingolstadt pipeline terminal, San Sabba, W. mole, head.	45° 36.7′ N 13° 46.9′ E	**2 F.R.** (vert.)	26 **8**	4	Red post; 10.	2 meters apart. Private light.
11760 *E 2598*	--Terminal No 1, head.	45° 36.6′ N 13° 46.5′ E	**2 F.R.G.** (vert.)	26 **8**	4	Red post, green bands; 16.	1 meter apart. Private light.
11764 *E 2597*	---No 2, head.	45° 36.7′ N 13° 46.3′ E	**2 F.R.G.** (vert.)	26 **8**	4	Red post, green bands; 16.	1 meter apart. Private light.
11768 *E 2597.2*	----Root.	45° 36.8′ N 13° 46.6′ E	**F.G.**	20 **6**	4	Green post; 10.	Visible 298°-118°. Private light.
11772 *E 2601.4*	--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 *E 2603*	-Porto Industriale.	45° 36.8′ N 13° 48.8′ E	**F.R.**	34 **10**	10	Aluminum post; 30.	Visible 058°12′-069°12′.
11784 *E 2602.2*	-Petroli Aquila Pier, head.	45° 36.3′ N 13° 47.6′ E	**F.R.**	20 **6**	3	Red post; 13.	Private light.
11788 *E 2602*	--E. arm, head.	45° 36.3′ N 13° 47.6′ E	**F.G.**	21 **6**	3	Green post; 13.	Private light.
11792 *E 2595*	-Muggia, E. mole, head.	45° 36.4′ N 13° 46.0′ E	**F.R.**	23 **7**	3	Red post; 16.	Private light.
11796 *E 2596*	--W. mole, head.	45° 36.4′ N 13° 46.0′ E	**F.G.**	23 **7**	3	Green post; 16.	Private light.
11800 *E 2604*	-Zaule, pier.	45° 36.5′ N 13° 48.1′ E	**2 F.G.** (vert.)	20 **6**	3	Green post; 16.	Private light.
11808 *E 2605*	-Jetty, head.	45° 35.8′ N 13° 43.3′ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	21 **6**	3	Red lantern; 16.	Private light.
	SLOVENIA						
	KOPERSKI ZALIV:						
11812 *E 2607*	-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 *E 2608*	--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; 13.	
11816 *E 2611.5*	--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.	
11817 *E 2611.7*	--Basin 3 Range, front.	45° 33.9′ N 13° 44.8′ E	**Q.Y.**	26 **8**	10	Red column, white bands, "X" topmark; 20.	**AIS** (MMSI No 992783030).
11817.5 *E 2611.71*	---Rear, 089° from front.	45° 33.9′ N 13° 44.9′ E	**Q.Y.**	39 **12**	10	Red column, white bands, "X" topmark; 41.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SLOVENIA				
11820 *E 2613*	--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 metal tower, column, gallery; 16.	Visible 270°-115°.
11820.3 *E 2613.3*	--Basin 1.	45° 33.2´ N 13° 44.3´ E	**F.Bu.**	82 **25**	**15**		Visible 088°06′-092°36′. **AIS** (MMSI No 992783011).
11820.5 *E 2613.5*	---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 metal tower, column, gallery; 16.	
11828 *E 2612.2*	--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, column, gallery; 20.	
11832 *E 2612*	---S. pier, head.	45° 32.9´ N 13° 43.4´ E	**Fl.G.** period 5s fl. 0.5s, ec. 4.5s	23 **7**	3	White metal tower, column, gallery; 20.	
	-Izola:						
11836 *E 2618*	--Rt Petelin.	45° 32.5´ N 13° 39.4´ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	23 **7**	6	White metal tower, column, gallery; 20.	
11840 *E 2620*	--N. mole, head.	45° 32.4´ N 13° 39.3´ E	**Fl.R.** period 3s fl. 1s, ec. 2s	20 **6**	4	White metal tower, column, gallery; 16.	
11844 *E 2622*	--S. mole, head.	45° 32.2´ N 13° 39.1´ E	**Fl.(2)R.** period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	20 **6**	4	Red metal tower, column, gallery; 16.	
	PIRANSKI ZALIV:						
	-Piran:						
11848 *E 2624*	**--Rt Madona,** bay, N. entrance.	45° 31.8´ N 13° 33.8´ E	**Iso.W.** period 4s	43 **13**	**15**	Gray octagonal tower; 30.	Visible 351°-253°. Reserve light range 8M.
11852 *E 2630*	--Head of transverse mole, S. side of entrance.	45° 31.5´ N 13° 34.0´ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	23 **7**	4	Green four-sided stone hut; 23.	
11856 *E 2628*	--Entrance, N. side, mole, head.	45° 31.5´ N 13° 34.0´ E	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s	23 **7**	4	Red four-sided stone hut; 23.	
	-Uvala Portoroz:						
11860 *E 2632*	--Rt Sveti Bernard, mole, head.	45° 30.8´ N 13° 34.4´ E	**Fl.R.** period 5s fl. 0.5s, ec. 4.5s	30 **9**	3	Red conical metal tower; 26.	
11864 *E 2634*	--Mole, head.	45° 30.7´ N 13° 35.4´ E	**Fl.G.** period 2s fl. 0.3s, ec. 1.7s	20 **6**	6	White metal tower, column, gallery; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CROATIA				
11868 *E 2642*	**Rt Savudrija.**	45° 29.4´ N 13° 29.5´ 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. **AIS** (MMSI No 992381250). **Siren:** 2 bl. ev. 42s (bl. 4s, si. 4s, bl. 4s, si. 30s).
11869 *E 2642.5*	-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 *E 2643*	Stara Savudrija.	45° 30.2´ N 13° 30.2´ E	**Fl.(2)R.** period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	23 **7**	4	White conical tower, red post; 16.	Visible 090°-163° and 264°-304°.
	LUKA UMAG:						
11872 *E 2644*	-Plicina Paklena, shoal, W. edge.	45° 26.5´ N 13° 30.2´ E	**Fl.(2)W.R.** period 8s fl. 0.5s, ec. 2s fl. 0.5s, ec. 5s	33 **10**	W. 8 R. 6	Red tower, column, gallery, stone base; 20.	W. 347°-165°, R.-347°.
11876 *E 2646*	-Mole, head.	45° 26.2´ N 13° 30.8´ E	**Fl.G.** period 5s fl. 0.5s, ec. 4.5s	29 **9**	4	Green tower, column, gallery; 20.	Visible 076°-316°.
11880 *E 2648*	-Inner mole, head.	45° 25.9´ N 13° 31.2´ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	26 **8**	4	White square tower, column, gallery; 23.	Visible 136°-006°.
11884 *E 2649*	-Mole, head.	45° 25.4´ N 13° 31.0´ E	**Fl.(2)G.** period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	23 **7**	3	Green column; 16.	Visible 056°-318°.
11888 *E 2652*	Dajla, mole, head.	45° 21.6´ N 13° 33.1´ E	**F.R.**	23 **7**	1	Red column; 20.	Private light.
	LUKA NOVIGRAD:						
11892 *E 2654*	-Breakwater, head.	45° 19.1´ N 13° 33.3´ E	**Fl.W.R.G.** period 5s fl. 1s, ec. 4s	23 **7**	W. 8 R. 5 G. 6	White tower, gallery; 20.	G. 117°-003°, W.-025°, R.-058°, W.-117°.
11896 *E 2655*	-Mole, head.	45° 19.2´ N 13° 33.7´ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	23 **7**	3	White tower, column, gallery; 20.	
11900 *E 2656*	-Boat harbor, mole, head.	45° 19.1´ N 13° 33.8´ E	**F.G.**	17 **5**	3	White column; 13.	
11904 *E 2658*	Rt.	45° 17.9´ N 13° 34.1´ 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	Stone dwelling.	R. 325°-018°, W.-325°.
11905 *E 2660*	Plicina Civran, NW. side.	45° 16.9´ N 13° 34.3´ E	**Q.W.**	23 **7**	5	N. CARDINAL BY, beacon, topmark; 20.	
11906 *E 2660.2*	-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 *E 2662*	-Hrid Barbaran, N. of entrance.	45° 13.8´ N 13° 35.2´ E	**Fl.W.R.** period 5s fl. 0.5s, ec. 4.5s	30 **9**	W. 8 R. 5	Red tower, column, gallery; 23.	R. 011°-062°, W.-153°, R.-308°, W.-011°.

(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 tower, green cupola; 20.	Visible 074°-023°.
11914 *E 2664*	-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, column, gallery; 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, gallery; 16.	
11924 *E 2670*	Crlenazemja, mole, head.	45° 10.6´ N 13° 36.0´ E	**F.R.**	16 **5**	3	Red column.	Shown on request.
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, platform; 16.	Visible 100°-122° and 147°-068°.
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 fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 4.5s	29 **9**	8	White tower, column, gallery; 20.	
11932 *E 2672*	Plicina Mramori, on the S. shoal.	45° 08.8´ N 13° 34.2´ E	**Fl.(2)R.** period 8s fl. 0.5s, ec. 2s fl. 0.5s, ec. 5s	43 **13**	7	Red tower, column, gallery; 20.	
11936 *E 2674*	Otocic Galiner, Vrsar, entrance.	45° 09.2´ N 13° 35.6´ E	**Fl.W.** period 2s fl. 0.3s, ec. 1.7s	67 **20**	5	Red framework tower; 33.	Visible 049°-064°, 099°-116° and 185°-025°.
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, column, 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	Square stone tower, 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, column, 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, column, gallery; 20.	
11960 *E 2690*	**Hrid Sveti Ivan na Pucini.**	45° 02.6´ N 13° 36.8´ E	**Fl.(2)W.** period 10s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 6.5s	75 **23**	**24**	Stone tower, dwelling; 49.	Reserve light range 12M. **AIS** (MMSI No 992381110). **Siren:** 1 bl. ev. 30s (bl. 4s, si. 26s).
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, 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; 16.	
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 tower, column, gallery, stone base; 20.	R. 130°-142°, W.-130°.
11980 *E 2694*	-Brioni (Brijuni), N. mole, head.	44° 55.1´ N 13° 46.2´ E	**Fl.G.** period 5s fl. 0.5s, ec. 4.5s	23 **7**	4	Green tower, column, gallery; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CROATIA				
11988 *E 2700*	-Kotez, on shoal, S. side of channel.	44° 54.4´ N 13° 47.6´ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	22 **7**	6	Green tower, column, gallery; 20.	
11992 *E 2706*	-Otok Sveti Jerolim, W, point.	44° 53.9´ N 13° 47.0´ E	**Fl.W.** period 2s fl. 0.3s, ec. 1.7s	33 **10**	5	White tower, column, gallery; 16.	Visible 349°-221°.
11996 *E 2710*	-Rt Pinida, Brionski Otoci, S. point.	44° 53.3´ N 13° 45.2´ E	**Iso.W.** period 4s	66 **20**	11	Square tower, dwelling; 49.	Visible 238°-114°. Reserve light range 7M. **AIS** (MMSI No 992381300).
	LUKA PULA:						
12000 *E 2718*	-Rt Kristo, entrance, NE. side.	44° 53.4´ N 13° 47.6´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	30 **9**	5	Square stone tower, red top; 16.	
12004 *E 2720*	-Rt Kumpare, breakwater, head.	44° 53.2´ N 13° 47.4´ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	30 **9**	6	Green tower, column, gallery; 16.	**AIS** (MMSI No 992381220).
12008 *E 2721*	-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, gallery; 16.	
12012 *E 2721.2*	--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; 16.	
12016 *E 2724*	-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, gallery; 16.	
12020 *E 2726*	-Otocic Sveti Andrija, S. side.	44° 52.2´ N 13° 49.5´ E	**Fl.R.** period 5s fl. 0.5s, ec. 4.5s	17 **5**	4	Red square hut, gallery, white pedestal; 16.	
12024 *E 2728*	-Commercial port, Gat Rijeka.	44° 52.5´ N 13° 50.8´ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	23 **7**	3	White metal tower, column, gallery; 20.	
12032 *E 2727*	-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; 16.	
12036 *E 2734*	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, gallery, dwelling; 26.	
12037 *E 2735*	-Rt Rakovica.	44° 48.6´ N 13° 51.7´ E	**Fl.(2)G.** period 5s	30 **9**	4		Visible 323°-198°.
12040 *E 2738*	**Hrid Porer.**	44° 45.5´ N 13° 53.4´ E	**Fl.(3)W.** period 15s fl. 0.3s, ec. 2.7s fl. 0.3s, ec. 2.7s fl. 0.3s, ec. 8.7s	115 **35**	**25**	Stone tower, dwelling; 102.	Visible 255°-147°. Reserve light range 12M. **AIS** (MMSI No 992381100). **Siren:** 2 bl. ev. 42s (bl. 4s, si. 4s, bl. 4s, si. 30s).
	RACON		**M(– –)**		**20**		(3 & 10cm).
	KVARNER WEST:						
12048 *E 2742*	-Plicina Albanez.	44° 44.1´ N 13° 54.1´ 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, gallery; 46.	R. 172°-227°, W.-172°. **AIS** (MMSI No 992381050).
12052 *E 2738.2*	-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, gallery, dwelling, red lantern; 7.	W. 258°-326°, R.-352°, G.-163°. 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	75 **23**	10		**Horn:** Mo.(U) ev. 30s (bl. 0.75s, si. 1s, bl. 0.75s, si. 1s, bl. 2.5s, si. 24s).
			Mo.(U)R. period 15s fl. 0.4s, ec. 0.5s fl. 0.4s, ec. 0.5s fl. 1.2s, ec. 12s	79 **24**	5		
12054.2 *E 7583*	-Ivana B.	44° 41.2´ N 13° 12.8´ E	**Mo.(U)W.** period 15s		10	Platform.	**Horn:** Mo.(U) ev. 30s.
12054.5 *E 7581*	-Ivana D.	44° 47.0´ N 13° 15.5´ E	**Mo.(U)W.** period 15s		10	Platform.	**Horn:** Mo.(U) ev. 30s.
12054.6 *E 7582*	-Ivana E.	44° 44.7´ N 13° 14.5´ E	**Mo.(U)W.** period 15s		10	Platform.	**Horn:** Mo.(U) ev. 30s.
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	Platform.	**Horn:** 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, column, 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	Green tower; 23.	Visible 278°-142°.
12060 *E 2750*	--Rt Marlera.	44° 48.2´ N 14° 00.1´ E	**Fl.W.** period 8s fl. 0.5s, ec. 7.5s	69 **21**	9	White tower, gallery, concrete base; 30.	Visible 186°-038°.
12064 *E 2751*	-Rt Seka, on shoal.	44° 53.7´ N 14° 01.0´ E	**Fl.G.** period 2s fl. 0.3s, ec. 1.7s	26 **8**	3	Green tower, gallery; 16.	
	-Zaliv Rasa:						
12068 *E 2768*	--Rt Ubas (Ubac), entrance, E. side.	44° 56.7´ N 14° 03.9´ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	52 **16**	8	White tower, column, gallery; 16.	**AIS** (MMSI No 992381320).
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, gallery; 26.	
12076 *E 2770*	--Rt Kucica.	44° 58.1´ N 14° 04.3´ E	**Fl.G.** period 2s fl. 0.3s, ec. 1.7s	26 **8**	3	Green tower, column, gallery; 16.	
12080 *E 2772*	--Rt Sveti Mikula.	44° 58.7´ N 14° 04.6´ E	**Fl.R.** period 2s fl. 0.3s, ec. 1.7s	29 **9**	1	Red tower, gallery, white base; 20.	
12084 *E 2773*	--Uvala Tunarica.	44° 58.4´ N 14° 05.8´ E	**Fl.R.** period 2s fl. 0.3s, ec. 1.7s	23 **7**	1	Red tower, column, gallery; 16.	
12088 *E 2774*	--Rt Prascarica.	44° 59.5´ N 14° 04.2´ E	**Fl.R.** period 2s fl. 0.3s, ec. 1.7s	26 **8**	1	Red tower, column, gallery; 16.	
12092 *E 2776*	--Uvala Teplica, W. point.	45° 00.2´ N 14° 03.3´ E	**Fl.G.** period 2s fl. 0.3s, ec. 1.7s	30 **9**	1	Green tower, gallery, white base, 20.	
12096 *E 2780*	--Trget, inlet, W. point.	45° 01.3´ N 14° 03.2´ E	**Fl.G.** period 2s fl. 0.3s, ec. 1.7s	23 **7**	1	Green tower, column, gallery; 16.	Visible 326°-170°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CROATIA				
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**	3	Green tower, column, gallery; 20.	Visible 002°-253°.
12100 *E 2782*	-Rt Crna Punta.	44° 57.4´ N 14° 08.7´ E	**Fl.(2)W.** period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	49 **15**	10	White octagonal tower, gallery; 16.	Visible 245°-104°. **AIS** (MMSI No 992381310).
12102 *E 2783*	--Skvaranska.	44° 59.2´ N 14° 10.3´ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	26 **8**	10	White tower, column, gallery; 16.	
	-Luka Rabac:						
12104 *E 2794*	--Rt Sveti Andrija.	45° 04.4´ 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° 09.5´ E	**Fl.(2)G.** period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	20 **6**	2	Green tower, column, 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° 08.7´ N 14° 13.4´ E	**Fl.G.** period 2s fl. 0.5s, ec. 1.5s	23 **7**	4	Green tower, column, gallery; 16.	
	KVARNER EAST:						
12116 *E 2744*	-Hrid Galiola.	44° 43.7´ N 14° 10.5´ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	69 **21**	12	Octagonal stone tower, gallery; 59.	**AIS** (MMSI No 992381040).
	-RACON		**K(– • –)**		**20**		(3 & 10cm).
	-Otok Unije:						
12120 *E 2752*	--Rt Vnetak.	44° 37.2´ N 14° 14.1´ 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, dwelling; 43.	W. 270°-158°, R.-176°. **AIS** (MMSI No 992381260).
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, gallery; 20.	Visible 093°-146°.
12128 *E 2756*	--Rt Lakunji.	44° 41.3´ N 14° 16.8´ 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, gallery; 20.	
12132 *E 2760*	-Otocic Zecevo, SW. point.	44° 45.9´ N 14° 18.1´ 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.	
	-Otok Cres:						
12140 *E 2758*	--Uvala Bijar.	44° 41.9´ N 14° 23.6´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	20 **6**	4	Red tower, column, gallery; 16.	Visible 116°-106°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CROATIA				
12144 *E 2759*	--Osor, mole.	44° 41.6´ N 14° 23.5´ E	**Fl.R.** period 1.5s fl. 0.3s, ec. 1.2s	20 **6**	3	Red tower, column, gallery; 16.	
12148 *E 2762*	--Martinscica, mole, head.	44° 49.1´ N 14° 21.0´ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	20 **6**	3	Green tower, column, gallery; 16.	
12152 *E 2764*	--Hrid Zaglav.	44° 55.3´ N 14° 17.3´ 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, dwelling; 49.	**AIS** (MMSI No 992381120).
12154 *E 2750.3*	--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.	Visible 112°-340°.
	--Luka Cres:						
12156 *E 2784*	---Rt Kovacine, entrance, N. side.	44° 57.6´ N 14° 23.4´ 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 *E 2792*	---Luka Cres, on Rt Krizice.	44° 57.3´ N 14° 23.5´ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	29 **9**	4	Green tower; 20.	
12164 *E 2788*	---Rt Melin.	44° 57.4´ N 14° 24.3´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	19 **6**	3	Red tower, column, gallery; 16.	
12172 *E 2802*	--Rt Prestenice, Kanal Vela Vrata, E. entrance point.	45° 07.2´ N 14° 16.4´ E	**L.Fl.W.** period 10s fl. 2s, ec. 8s	56 **17**	10	Square tower, dwelling; 43.	Visible 350°-205°. **AIS** (MMSI No 992381410).
12176 *E 2799.4*	--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 *E 2799.2*	C. Brestova.	45° 08.2´ N 14° 13.4´ E	**Fl.(2)R.** period 12s fl. 1s, ec. 2.5s fl. 1s, ec. 7.5s	131 **40**	13	Red tower, gallery; 16.	
12184 *E 2799.6*	--Banja, Kanal Vela Vrata, NE. entrance point.	45° 09.9´ N 14° 18.1´ E	**Fl.G.** period 4s fl. 0.5s, ec. 3.5s	23 **7**	8	Green tower, gallery; 16.	
12188 *E 2801*	--Livala Porozina, mole, head.	45° 07.9´ N 14° 17.1´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	23 **7**	3	Red tower, column, gallery; 16.	
	KANAL SREDNJA VRATA:						
	-Otok Cres:						
12194 *E 2871*	--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; 16.	
12196 *E 2873*	--Rt Tarej.	44° 57.3´ N 14° 29.2´ E	**Fl.R.** period 5s fl. 0.5s, ec. 4.5s	26 **8**	6	Red tower, column, gallery, white pedestal; 16.	
	RIJECKI ZALIV:						
12200 *E 2804*	-Moscenice, quay, SE. corner.	45° 14.3´ N 14° 15.4´ E	**F.G.**	23 **7**	3	Green tower, column, gallery; 16.	
12204 *E 2810*	-Lovran, S. breakwater, head.	45° 17.4´ N 14° 16.7´ E	**Fl.G.** period 2s fl. 0.3s, ec. 1.7s	26 **8**	4	Green square tower, column, gallery; 23.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CROATIA				
12212 *E 2816*	-Opatija, mole, head.	45° 20.2´ N 14° 18.7´ E	**Fl.R.** period 5s fl. 0.5s, ec. 4.5s	23 **7**	6	Red tower, column, gallery; 20.	Visible 137°-354°.
12216 *E 2817*	--Marina, breakwater, head.	45° 19.7´ N 14° 18.1´ E	**Fl.(2)R.** period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	23 **7**	4	Red tower, column, gallery; 16.	
12220 *E 2818*	-Volosko, S. mole, head.	45° 20.9´ N 14° 19.3´ E	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s	23 **7**	3	Red tower, column, gallery; 16.	
12224 *E 2820*	--N. mole, head.	45° 20.9´ N 14° 19.3´ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	23 **7**	3	Green tower, column, gallery; 16.	
12226 *E 2829*	-Petrolejska.	45° 20.0´ N 14° 24.6´ E	**Fl.G.** period 5s fl. 0.5s, ec. 4.5s	26 **8**	4	Green tower, column, gallery; 20.	
12228 *E 2822*	**-Mlaka.**	45° 20.0´ N 14° 25.2´ E	**Fl.W.** period 10s fl. 0.7s, ec. 9.3s	128 **39**	**15**	Black tower, white bands, cupola, gallery; 125.	Reserve light range 12M.
	-Luka Rijecka:						
12232 *E 2830*	--Brgud, S. breakwater, head.	45° 20.1´ N 14° 23.5´ E	**Fl.G.** period 2s fl. 0.3s, ec. 1.7s	33 **10**	4	Green tower, column, building; 10.	
12234 *E 2830.5*	---Marina breakwater, head.	45° 20.2´ N 14° 23.2´ E	**Fl.(2)G.** period 4s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2s	23 **7**	2	Green tower; 23.	
12240 *E 2824*	--Generala Petra Drapsina, breakwater, head.	45° 19.6´ N 14° 25.2´ E	**Q.(3)G.** period 5s	49 **15**	8	Green tower, gallery; 46.	Reserve light range 3M.
12244 *E 2828*	--Mole Lole Ribara, head.	45° 19.8´ N 14° 25.3´ E	**Fl.(3)R.** period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2.5s	30 **9**	3	Red square tower, column, gallery; 23.	
	-Susak:						
12248 *E 2842*	--Detached breakwater, S. side.	45° 19.4´ N 14° 26.3´ E	**Fl.G.** period 2s fl. 0.3s, ec. 1.7s	29 **9**	3	Green tower, column, gallery; 23.	
12252 *E 2840*	---N. side.	45° 19.4´ N 14° 26.3´ E	**Fl.R.** period 2s fl. 0.3s, ec. 1.7s	23 **7**	2	Red tower, column, gallery; 16.	
12254 *E 2843*	-RoRo berth.	45° 19.2´ N 14° 27.0´ 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, 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.	
	KVARNER:						
12260 *E 3036*	**-Otok Susak.**	44° 30.9´ N 14° 18.1´ 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. **AIS** (MMSI No 992381190).
12264 *E 3038*	-Uvala Dragoca, N. breakwater, head.	44° 30.8´ N 14° 18.7´ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	23 **7**	3	Green tower, column, gallery; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CROATIA				
12268 *E 3034*	-Hrid Silo, Otok Srakane Male, SE.	44° 33.5´ N 14° 20.6´ E	**Fl.R.** period 5s fl. 0.5s, ec. 4.5s	36 **11**	5	Stone tower, red gallery, white concrete base; 20.	
12270 *E 3035*	-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 *E 3042*	-Otocic Sveti Petar, Otok Losinj, SW.	44° 27.6´ N 14° 33.4´ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	23 **7**	5	White tower, column, gallery; 16.	Visible 115°-124° and 285°-320°.
12273 *E 3043*	-Otok Ilovik.	44° 27.8´ N 14° 32.9´ E	**Fl.(3)W.** period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4.5s	23 **7**	3	White tower, column, gallery; 16.	
	-Otok Losinj:						
12276 *E 3032*	--Rt Kurila.	44° 33.7´ N 14° 22.1´ E	**Fl.W.R.** period 5s fl. 0.5s, ec. 4.5s	36 **11**	W. 8 R. 6	Stone tower, white pedestal; 26.	W. 189°-175°, R.-189°.
	--Luka Mali Losinj:						
12280 *E 3022*	---Otocic Murtar, SW. point.	44° 33.0´ N 14° 25.3´ E	**L.Fl.W.** period 8s fl. 2s, ec. 6s	30 **9**	8	White tower, gallery, pedestal, dwelling; 30.	
12284 *E 3023*	---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 *E 3024*	---Otocic Koldurac (Koludarc), on Rt Kriz, entrance, S. side.	44° 33.5´ N 14° 25.8´ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	33 **10**	3	Green tower, white pedestal; 23.	
12292 *E 3026*	---Rt Torunza, entrance, N. side.	44° 33.6´ N 14° 25.6´ E	**Fl.W.R.** period 3s fl. 0.3s, ec. 2.7s	33 **10**	W. 6 R. 4	Red tower, white concrete base; 23.	W. 065°-072°, R.-065°.
12296 *E 3028*	---Rt Poljana.	44° 33.2´ N 14° 26.5´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	30 **9**	5	Red framework tower, white pedestal; 26.	
12300 *E 3029*	---Mole, NW. corner.	44° 32.1´ N 14° 28.0´ E	**Fl.R.** period 4s fl. 0.5s, ec. 3.5s	23 **7**	4	Red tower, column, gallery; 16.	
12304 *E 3019*	--Luka Cikat, on Rt Madona.	44° 31.5´ N 14° 26.9´ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	39 **12**	3	Stone tower, green gallery; 23.	
12308 *E 3016*	--Veli Losinj, on E. entrance point.	44° 31.4´ N 14° 30.1´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	33 **10**	3	Red tower, column, gallery; 16.	Visible 170°-270°.
12310 *E 3015*	--Luka Rovenska, breakwater, head.	44° 31.4´ N 14° 30.5´ E	**Fl.(2)R.** period 4s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2s	16 **5**	3	Red tower; 13.	
12312 *E 3014*	--Luka Sveta Martin, mole, head.	44° 32.0´ N 14° 28.7´ E	**Fl.(3)R.** period 9s fl. 0.3s, ec. 1s fl. 0.3s, ec. 1s fl. 0.3s, ec. 6.1s	16 **5**	2	Red column; 13.	
12316 *E 3012*	--Nerezine, S. mole, head.	44° 39.8´ N 14° 24.2´ E	**Fl.(2)R.** period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	16 **5**	3	Red column; 13.	
12320 *E 3008*	--Otocic Palacol.	44° 32.4´ N 14° 37.2´ 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, white concrete pedestal; 23.	R. 078°-150°, W.-078°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CROATIA				
	-Otok Cres:						
12324 *E 3006*	--Rt Suha.	44° 36.2´ N 14° 29.9´ E	**Fl.W.R.** period 5s fl. 0.5s, ec. 4.5s	20 **6**	W. 9 R. 6	White tower, column, gallery; 16.	R. 285°-319°, W.-285°.
12328 *E 3004*	--Luka Jadresnica.	44° 36.9´ N 14° 30.3´ E	**F.G.**	16 **5**	3	Green column; 16.	
12332 *E 3002*	-Otocic Trstenik.	44° 40.1´ N 14° 34.7´ 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°. **AIS** (MMSI No 992381170).
	RIJECKI ZALIV:						
12336 *E 2850*	-Podurinj (Urinj), mole, head.	45° 17.0´ N 14° 31.5´ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	19 **6**	3	Green tower, column, gallery; 16.	
12340 *E 2855*	--Rt Sridnji, entrance, N. point.	45° 16.8´ N 14° 33.4´ E	**Fl.(2)W.** period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	39 **12**	6	White round tower, column, gallery; 16.	Visible 212°30´-053°.
12342 *E 2845.1*	-Rt Ostro, Kraljevica.	45° 16.4´ N 14° 33.6´ E	**Iso.W.** period 4s	49 **15**	8	Red tower, white bands; 49.	
	-Bakarski Zaliv:						
12348 *E 2854*	---NE. corner.	45° 16.4´ N 14° 34.1´ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	20 **6**	3	White tower; 16.	
12352 *E 2856*	--Kavranic, entrance, NE. point.	45° 16.9´ N 14° 33.9´ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	49 **15**	6	Pyramidal stone tower; 20.	
12356 *E 2857*	--Rt Babno.	45° 17.1´ N 14° 33.6´ E	**Fl.R.** period 2s fl. 0.3s, ec. 1.7s	41 **12**	4	Red round tower, column, gallery; 16.	
12360 *E 2862*	--Bakarac, mole, head.	45° 16.8´ N 14° 34.9´ E	**F.R.**	20 **6**	3	Red tower, column; 16.	
	VELEBITSKI KANAL:						
	-Tihi Kanal:						
12364 *E 2890*	--Otocic Sv. Marko.	45° 15.2´ N 14° 34.0´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	49 **15**	6	Red tower, column, gallery; 20.	
12368 *E 2892*	--Rt Glavina.	45° 14.5´ N 14° 34.6´ E	**Fl.R.** period 5s fl. 0.5s, ec. 4.5s	23 **7**	3	Red tower, column, gallery; 16.	
12376 *E 2894*	--Rt Voscica, on Otok Krk.	45° 14.3´ N 14° 35.5´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	39 **12**	3	Masonry tower, red square daymark, dwelling; 26.	Visible 106°-346°.
12380 *E 2895*	--Rt Turnac, W. side.	45° 13.5´ N 14° 36.2´ E	**Fl.R.** period 2s fl. 0.3s, ec. 1.7s	29 **9**	3	White tower, red daymark; 20.	
12384 *E 2896*	--Rt Ertak, E. side.	45° 13.2´ N 14° 36.6´ E	**Fl.W.** period 2s fl. 0.3s, ec. 1.7s	29 **9**	5	White tower, column, gallery, dwelling; 20.	
12388 *E 2906*	-Crikvenica, E. side of channel, S. mole, head.	45° 10.3´ N 14° 41.3´ E	**Fl.G.** period 2s fl. 0.3s, ec. 1.7s	26 **8**	3	Green square tower, column, gallery; 23.	
	-Otok Krk:						
12392 *E 2898*	--Soline, near Cape Glavati.	45° 09.7´ N 14° 38.1´ E	**Fl.R.** period 5s fl. 0.5s, ec. 4.5s	30 **9**	4	Stone tower, red daymark; 20.	Visible 090°-248°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CROATIA				
12396 *E 2899*	---Hrid Crni, about 0.5 km. SW. of Soline.	45° 09.6´ N 14° 37.6´ E	**Fl.R.** period 2s fl. 0.3s, ec. 1.7s	13 **4**	3	Red tower, column; 10.	Visible 051°-256°.
12400 *E 2900*	---Klimno, mole, head.	45° 09.4´ N 14° 37.2´ E	**Fl.R.** period 5s fl. 0.5s, ec. 4.5s	23 **7**	3	Red tower, column, gallery; 16.	
12404 *E 2902*	--Uvala Stipnanja, Silo, breakwater.	45° 08.9´ N 14° 39.9´ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	20 **6**	3	Green tower, column, gallery; 16.	
12408 *E 2901*	---Rt Silo.	45° 09.4´ N 14° 40.2´ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	46 **14**	7	Stone tower; 30.	
12412 *E 2908*	-Selce, pier, head.	45° 09.4´ N 14° 43.1´ E	**Fl.(2)W.** period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	23 **7**	3	White tower, column, gallery; 20.	Visible 036°-306°.
12416 *E 2910*	-Rt Tokal.	45° 08.3´ N 14° 44.4´ E	**Fl.W.** period 6s fl. 1s, ec. 5s	66 **20**	9	White tower, column; 23.	
12420 *E 2912*	-Novi Vinodolski, breakwater, head.	45° 07.5´ N 14° 47.2´ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	26 **8**	2	Green square tower, column, gallery; 23.	
12424 *E 2914*	--Inner mole, head.	45° 07.6´ N 14° 47.2´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	23 **7**	2	Red tower, column, gallery; 16.	
12428 *E 2903.3*	-Vrbnik, mole, head.	45° 04.7´ N 14° 40.4´ E	**Fl.R.** period 2s fl. 0.3s, ec. 1.7s	20 **6**	3	Red tower, column, gallery; 16.	
12432 *E 2916*	-Hrid Sv. Anton, on SW. extremity.	45° 05.8´ N 14° 50.4´ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	29 **9**	6	Square stone tower; 13.	
12436 *E 2923*	-Senj, Sv. Ambroz mole, head.	44° 59.5´ N 14° 53.9´ E	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s	33 **10**	5	Stone tower, red top; 30.	
12444 *E 2922*	-Marija Art breakwater, head.	44° 59.4´ N 14° 53.8´ E	**Fl.(3)W.** period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	34 **10**	8	Stone tower; 30.	
12448 *E 2926*	-Jurjevo, mole, head.	44° 55.8´ N 14° 55.2´ E	**Fl.R.** period 2s fl. 0.3s, ec. 1.7s	20 **6**	3	Stone tower, red column; 16.	Visible 093°-183°.
12452 *E 2928*	-Lukovo Otocko, Rt Malta.	44° 51.5´ N 14° 53.1´ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	29 **9**	8	Square stone tower; 13.	
12458 *E 2931*	-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.	
	KVARNERIC:						
12460 *E 2887*	-Rt Strazica, Otok Prvic, NW. extremity.	44° 56.0´ N 14° 46.1´ E	**Fl.W.** period 6s fl. 1s, ec. 5s	75 **23**	9	Square stone tower; 16.	
12464 *E 2886.4*	-Rt Skuljica, Otok Krk, SE. extremity.	44° 56.5´ N 14° 45.7´ E	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s	59 **18**	6	Red tower; 16.	
12468 *E 2886*	-Otocic Galun, NE. extremity.	44° 56.5´ N 14° 40.6´ 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, white pedestal; 26.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CROATIA				
	KANAL SREDNJA VRATA:						
12472 *E 2872*	-Rt Veli Pin, Otok Plavnik, W. extremity.	44° 58.9´ N 14° 29.1´ E	**Fl.W.** period 6s fl. 1s, ec. 5s	66 **20**	10	Stone tower, white pedestal; 39.	
	VELEBITSKI KANAL:						
12476 *E 2904*	--Baska, mole, head.	44° 58.1´ N 14° 45.6´ E	**Fl.G.** period 2s fl. 0.3s, ec. 1.7s	33 **10**	4	Square tower, green daymark; 26.	
12480 *E 2905*	---W. mole, head.	44° 58.1´ N 14° 45.5´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	23 **7**	3	Red tower, column, gallery; 16.	
	KVARNERIC:						
12484 *E 2884*	--Rt Negrit.	44° 58.8´ N 14° 37.0´ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	46 **14**	5	Green tower, column, gallery, dwelling; 16.	
12488 *E 2880*	--Puntarska Draga, on Rt Pod Strazica.	45° 00.7´ N 14° 37.4´ E	**Fl.W.** period 2s fl. 0.3s, ec. 1.7s	29 **9**	5	White tower, column, gallery, pedestal; 16.	
12492 *E 2882*	---Punat, breakwater, head.	45° 01.3´ N 14° 37.7´ E	**Fl.G.** period 4s fl. 0.5s, ec. 3.5s	20 **6**	3	Green tower, column, gallery, dwelling; 16.	Visible 082°-294°.
12496 *E 2874*	--Krk, mole, head.	45° 01.4´ N 14° 34.6´ E	**Fl.R.** period 4s fl. 0.5s, ec. 3.5s	26 **8**	3	Red square tower; 26.	
12500 *E 2876*	---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, column; 16.	
	KANAL SREDNJA VRATA:						
12504 *E 2870.4*	--Rt Sv. Mikula.	45° 01.3´ N 14° 29.9´ E	**Fl.G.** period 5s fl. 0.5s, ec. 4.5s	26 **8**	4	Green tower, column, gallery; 16.	
12508 *E 2870*	--Rt Manganel.	45° 04.4´ N 14° 26.0´ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	43 **13**	8	Square stone tower, pedestal; 26.	
12512 *E 2869*	--Rt Glavotok.	45° 05.4´ N 14° 26.1´ E	**Fl.R.** period 4s fl. 0.5s, ec. 3.5s	23 **7**	3	Red tower, column; 20.	
	RIJECKI ZALIV:						
12524 *E 2867*	--Njivice, mole, head.	45° 09.9´ N 14° 32.5´ E	**Fl.W.** period 4s fl. 0.3s, ec. 3.7s	23 **7**	3	White tower, column, gallery; 23.	
12528 *E 2866*	--Tenka Punta.	45° 13.7´ N 14° 31.8´ 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	Square stone tower, pedestal; 23.	
12532 *E 2863*	--Kijac.	45° 14.2´ N 14° 32.2´ E	**Fl.(2)R.** period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6s	46 **14**	8	Red round tower; 16.	Visible 331°-224°.
12536 *E 2864*	---Range, front.	45° 12.7´ N 14° 33.1´ E	**Iso.G.** period 2s	75 **23**	11	White column, red top.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CROATIA				
12540 *E 2864.1*	----Rear, 490 meters 151° from front.	45° 12.5´ N 14° 33.2´ E	**Oc.G.** period 5s lt. 3s, ec. 2s	105 **32**	11	White column, red top.	
	VELEBITSKI KANAL:						
12544 *E 2888*	-Rt Sajalo, Otok Goli, NW. point.	44° 51.1´ N 14° 48.0´ E	**Fl.R.** period 5s fl. 0.5s, ec. 4.5s	26 **8**	5	Stone tower; 16.	
12547 *E 2937*	-Stinica.	44° 43.2´ N 14° 53.4´ E	**Fl.(3)W.** period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4.5s	26 **8**	4	White tower; 26.	Visible 052°-012°.
12548 *E 2940*	-Jablanac, on Rt Gradic, entrance, N. side.	44° 42.3´ N 14° 53.7´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	10 **3**	4	Red square tower, column; 16.	
12552 *E 2941*	--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 *E 2942*	-Plicina Glavina.	44° 42.0´ N 14° 52.2´ E	**Fl.(2)W.** period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	23 **7**	4	ISOLATED DANGER BRB, tower, topmark; 13.	
12558 *E 2942.3*	-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 *E 2942.4*	-Misnjak.	44° 42.3´ N 14° 51.8´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	20 **6**	3	Red tower; 16.	Visible 132°-288°.
12564 *E 2942.5*	-Luka Misnjak.	44° 42.4´ N 14° 51.6´ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	20 **6**	3	White tower, column, gallery; 16.	Visible 254°-016°.
12568 *E 2938*	--Rt Stokic, N. of port.	44° 42.5´ N 14° 53.5´ E	**Fl.W.** period 6s fl. 1s, ec. 5s	164 **50**	8	White tower, concrete base; 20.	Visible 346°-174°.
12576 *E 2943*	-Hrid Pohlib.	44° 41.9´ N 14° 50.5´ E	**Fl.W.** period 2s fl. 0.3s, ec. 1.7s	23 **7**	5	Square stone tower; 16.	Visible 275°-168°.
12578 *E 2943.9*	-Plicina Prizna.	44° 36.2´ N 14° 57.9´ E	**Q.(2)W.** period 5s	26 **8**	8	ISOLATED DANGER BRB, tower, topmark; 26.	
12580 *E 2944*	-Rt Jurisnica.	44° 34.4´ N 14° 59.3´ 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 tower; 23.	
12584 *E 2948*	-Karlobag, S. mole, head.	44° 31.4´ N 15° 04.4´ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	26 **8**	4	Green square tower, column, gallery; 23.	
	KVARNERIC:						
	-Otok Rab:						
12588 *E 2975*	--Lopar, mole, head.	44° 50.2´ N 14° 43.3´ E	**Fl.(2)W.** period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	26 **8**	3	White tower, post, gallery; 23.	
12592 *E 2976*	--Rt Sorinj.	44° 50.7´ N 14° 40.7´ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	33 **10**	6	White tower; 23.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CROATIA				
12594 *E 2977*	--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 tower, column, gallery.	
12596 *E 2978*	--Rt Kalifront.	44° 47.4´ N 14° 39.3´ 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, gallery, pedestal; 16.	
12600 *E 2982*	--Uvala Kristofor, entrance, W. side.	44° 45.5´ N 14° 41.7´ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	33 **10**	8	White tower, gallery, pedestal; 16.	
12604 *E 2995*	-Otok Dolin, on Donji Rt.	44° 44.6´ 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 metal tower, column, gallery; 20.	
12608 *E 2984*	--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	Green tower, gallery, white concrete pedestal; 13.	
12612 *E 2986*	---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 *E 2994*	---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	Stone tower, green top; 23.	Visible 349°-194°.
12620 *E 2992*	--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 tower, column, gallery; 20.	
12624 *E 2988*	---Mole, head.	44° 45.2´ N 14° 45.8´ E	**Fl.G.** period 2s fl. 0.5s, ec. 1.5s	23 **7**	3	Green tower, column, gallery; 20.	
12632 *E 2998*	-Otocic Dolfin.	44° 41.5´ N 14° 41.2´ E	**Fl.(2)W.R.** period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	98 **30**	W. 10 R. 7	White square tower, column, gallery; 16.	R. 138°-153°, W.-138°.
12640 *E 2995.6*	-Uvala Stara Novallja, Rt Deda.	44° 36.3´ N 14° 52.3´ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	30 **9**	5	Square stone tower, white pedestal; 20.	
12644 *E 2997*	--Luka Novalja, pier, S. head.	44° 33.3´ N 14° 53.0´ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	23 **7**	3	White tower, column, gallery; 16.	Visible 085°-096°.
12646 *E 2946*	-Zigljen.	44° 34.9´ N 14° 57.1´ E	**Fl.G.** period 2s fl. 0.3s, ec. 1.7s	23 **7**	3	Green tower, column, gallery; 16.	Visible 157°-219°.
12646.5 *E 2945*	--NW. point.	44° 34.9´ N 14° 57.1´ E	**Fl.R.** period 2s fl. 0.3s, ec. 1.7s	39 **12**	6	Red round tower, gallery, red concrete base; 23.	Visible 019°-270°.
12647 *E 2995.8*	-Rt Zali.	44° 36.7´ N 14° 54.6´ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	30 **9**	8	White round tower, concrete pedestal; 26.	Visible 091°-308°.
	VIRSKO MORE:						
	-Otok Pag:						
12648 *E 3075*	--Uvala Mandre.	44° 29.0´ N 14° 54.4´ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	23 **7**	7	White tower, column, gallery; 16.	
12656 *E 3077*	--Rt Zaglav.	44° 23.6´ N 15° 02.3´ 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 tower, column, gallery; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CROATIA				
12660 *E 3078*	--Luka Kosljun, mole, root.	44° 23.9´ N 15° 04.6´ E	**Fl.R.G.** period 5s fl. 0.5s, ec. 4.5s	23 **7**	R. 3 G. 2	Green tower, column, gallery; 16.	G. 353°-027°, R.-353°.
12664 *E 3080*	--Luka Nova Povljana.	44° 21.0´ N 15° 05.8´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	30 **9**	5	Red tower, column, gallery; 20.	
12668 *E 3082*	--Bitve.	44° 19.0´ N 15° 06.7´ E	**Fl.(2)R.** period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	23 **7**	5	Square stone tower, red daymark; 20.	
12672 *E 3084*	--Rt Prutna.	44° 17.5´ N 15° 10.8´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	26 **8**	3	Pyramidal stone tower, red gallery; 20.	Visible 121°-031°.
12676 *E 3083*	--Plicina Prutna, shoal, SW. edge.	44° 17.6´ N 15° 09.1´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	23 **7**	3	Square stone tower, red daymark; 20.	Visible 296°-180°.
12680 *E 3087*	-Otocic Sikavic Mali, on SE. point.	44° 17.7´ N 15° 14.3´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	23 **7**	3	Red tower, column, gallery; 16.	
12684 *E 3086*	-Otocic Misjak, on NW. point.	44° 18.2´ N 15° 11.1´ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	26 **8**	3	Pyramidal stone tower, green gallery; 20.	
12688 *E 2953*	--Pag Luka, near Rt Golija.	44° 26.8´ N 15° 03.1´ E	**Fl.(2)R.** period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	23 **7**	7	Red tower, column, gallery; 16.	
12692 *E 2954*	---S. mole.	44° 26.6´ N 15° 03.4´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	23 **7**	2	Red tower, column, gallery; 16.	
12696 *E 2951*	--Rt Zaglav.	44° 30.0´ N 15° 00.4´ E	**Fl.G.** period 5s fl. 0.5s, ec. 4.5s	29 **9**	4	Green tower, column, gallery; 20.	
12700 *E 2952*	--Rt Sveti Nikola.	44° 28.8´ N 15° 02.6´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	33 **10**	4	Red tower; 16.	
12704 *E 2950*	--Rt Kristofor.	44° 28.6´ N 15° 04.8´ E	**Fl.W.** period 5s fl. 5s, ec. 4.5s	203 **62**	7	White octagonal tower; 20.	
12708 *E 2960*	-Hrid Konj.	44° 25.3´ N 15° 12.8´ 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 tower, column, gallery; 20.	
12712 *E 2962*	-Kruscica Dukoba, on Rt Duga.	44° 21.0´ N 15° 18.5´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	20 **6**	5	Red tower, column, gallery; 16.	
12716 *E 3088*	-Ljubacka Vrata, on Rt Ostrljak, entrance, E. side.	44° 19.4´ N 15° 15.5´ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	30 **9**	4	Square stone tower, green daymark; 20.	Visible 335°-213°.
12720 *E 3087.4*	--Rt Fortica, entrance, W. side.	44° 19.3´ N 15° 15.4´ E	**Fl.R.** period 2s fl. 0.3s, ec. 1.7s	21 **6**	3	Square stone tower, red daymark; 13.	
12724 *E 2961*	-Rt Debela Nozica.	44° 19.9´ N 15° 16.0´ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	26 **8**	6	Pyramidal stone tower, gallery; 20.	
12728 *E 2964*	-Otocic Razanac Veli.	44° 19.0´ N 15° 21.3´ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	52 **16**	9	White tower, column, gallery; 20.	
12732 *E 2966*	-Razanac, breakwater, head.	44° 17.1´ N 15° 20.9´ E	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s	23 **7**	4	Red tower, column, gallery; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CROATIA				
12736 *E 2970*	-Starigrad, breakwater, head.	44° 17.7´ N 15° 26.2´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	23 **7**	3	Red tower, column, gallery; 16.	
12740 *E 2972*	-Vinjerac, mole, head.	44° 15.5´ N 15° 27.8´ E	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s	23 **7**	3	Red tower, column, gallery; 16.	Visible 151°-135°.
12744 *E 2971*	-Rt Pisak.	44° 16.1´ N 15° 28.7´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	23 **7**	3	Red tower, column, gallery; 16.	
	NOVSKO ZDRILO:						
12748 *E 2973*	-Rt Baljenica.	44° 14.8´ N 15° 31.4´ E	**Fl.(2)R.** period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	33 **10**	5	Red square tower; 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° 14.6´ N 15° 31.3´ E	**Fl.G.** period 2s fl. 0.3s, ec. 1.7s	29 **9**	2	Green tower, column, gallery, pedestal; 16.	
12756 *E 2973.3*	-Rt Vranine, W. shore.	44° 14.3´ N 15° 31.2´ E	**Fl.G.** period 2s fl. 0.3s, ec. 1.7s	23 **7**	2	Green tower, column, gallery, pedestal; 16.	
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 tower, column, gallery, pedestal; 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 tower, column, gallery; 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, 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, concrete dwelling; 20.	
	KVARNER:						
12772 *E 3044*	-Otocic Grujica.	44° 24.6´ N 14° 34.1´ 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, dwelling; 49.	Reserve light F.W. 8M. **AIS** (MMSI No 992381010).
	-RACON		**O(– – –)**		**20**		(3 & 10cm).
	OTOK PREMUDA:						
12780 *E 3046*	-Otocic Kamenjak, N. head.	44° 21.4´ N 14° 34.8´ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	39 **12**	7	White tower, gallery, pedestal; 26.	
12784 *E 3048*	-Luka Krijal, N. mole, head.	44° 20.2´ N 14° 35.6´ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	20 **6**	4	White tower, column, gallery; 16.	
12788 *E 3050*	-Uvala Loza.	44° 20.8´ N 14° 36.1´ E	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s	23 **7**	4	Red tower, column, gallery; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CROATIA				
	VIRSKO MORE:						
	-Sibanski Kanal:						
	--Otok Silba:						
12792 *E 3054*	---Zalic, mole, head.	44° 22.4´ N 14° 41.5´ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	20 **6**	3	White tower, column, gallery; 16.	
12796 *E 3058*	---Rt Arat.	44° 20.8´ N 14° 43.2´ E	**Q.(6)+L.Fl.W.** period 15s	30 **9**	8	S. CARDINAL YB, tower, topmark; 30.	
12800 *E 3052*	--Otocic Grebeni.	44° 19.9´ N 14° 41.5´ E	**Fl.R.** period 5s fl. 0.5s, ec. 4.5s	69 **21**	6	Square stone tower; 13.	**AIS** (MMSI No 992381340).
	-Olipski Kanal:						
12804 *E 3060*	--Silbinski Kanal, breakwater, head.	44° 22.5´ N 14° 42.1´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	26 **8**	4	Red square tower, column, gallery; 23.	
12808 *E 3064*	--Otocic Morovnik.	44° 25.9´ N 14° 43.9´ E	**Fl.G.** period 5s fl. 0.5s, ec. 4.5s	26 **8**	5	Square stone tower; 26.	
12812 *E 3066*	--Luka Olib, breakwater, head.	44° 22.8´ N 14° 46.5´ E	**Fl.W.R.** period 3s fl. 0.5s, ec. 2.5s	23 **7**	4	White tower, column, gallery; 20.	R. 144°-165°, W.-144°.
	-Pohlibski Kanal:						
12816 *E 3072*	--Ostrov Skrda, NW. point.	44° 28.8´ N 14° 50.9´ 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, pedestal; 39.	
12820 *E 3068*	--Otocic Pohlib.	44° 23.7´ N 14° 53.6´ E	**Fl.W.** period 5s fl. 5s, ec. 4.5s	52 **16**	9	White tower, column, gallery, stone base; 26.	
12824 *E 3081*	-Otok Vir, on W. side.	44° 18.2´ N 15° 01.6´ E	**Fl.W.** period 10s fl. 1s, ec. 9s	69 **21**	11	Stone tower, gallery, dwelling; 69.	Visible 315°-163°. **AIS** (MMSI No 992381200).
	OTOK IST:						
12825 *E 3065*	-Plic Krizica.	44° 17.6´ N 14° 43.8´ 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 *E 3089*	-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, gallery; 20.	
12828 *E 3090*	-Uvala Siroka, mole, head.	44° 16.2´ N 14° 46.0´ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	23 **7**	4	Green tower, column, gallery; 16.	
	OTOK MOLAT:						
12832 *E 3092*	-Rt Vranac.	44° 16.0´ N 14° 48.2´ E	**Fl.W.** period 2s fl. 0.3s, ec. 1.7s	43 **13**	5	White conical tower, gallery, pedestal; 26.	
12835 *E 3090.5*	-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, gallery, concrete base; 16.	R. 242°-024°, W.-041°, R.-082°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CROATIA				
12836 *E 3093*	-Rt Bonaster, Otok Molat, SW. point.	44° 12.0´ N 14° 50.3´ 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	Pyramidal stone tower; 20.	
12844 *E 3094.4*	-Otocic Golac, on N. shore.	44° 11.3´ N 14° 50.7´ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	39 **12**	6	White tower, column, gallery; 16.	Visible 066°-280°.
12848 *E 3097.4*	-Otocic Trata.	44° 12.7´ N 14° 55.2´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	33 **10**	6	Red tower, column, gallery; 20.	
12852 *E 3096*	-Otocic Vrtlac.	44° 12.1´ N 14° 55.5´ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	23 **7**	5	White tower, column, gallery; 16.	
12856 *E 3095*	-Otocic Tun Mali.	44° 11.5´ N 14° 53.9´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	27 **8**	3	Red tower, column, gallery; 16.	
12860 *E 3097*	-Otok Tun Veli.	44° 11.3´ N 14° 54.2´ E	**Fl.W.G.** period 5s fl. 0.5s, ec. 4.5s	88 **27**	W. 7 G. 4	White conical tower, gallery; 23.	W. 092°-099°30′, G.-213°, W.-223°, G.-092°.
	DUGI OTOK:						
12864 *E 3098*	**-Rt Veli Rat.**	44° 09.1´ N 14° 49.1´ E	**Fl.(2)W.** period 20s fl. 0.8s, ec. 4.4s fl. 0.8s, ec. 14s	134 **41**	**22**	Brown tower, gallery, dwelling; 118.	Reserve light range 10M. **AIS** (MMSI No 992381060).
12868 *E 3099*	-Zaliv Pantera, Rt Tanki.	44° 09.1´ N 14° 50.7´ E	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s	23 **7**	3	Red tower, column, gallery; 20.	Visible 189°-120°. Fl.G. 3s 6m 3M beacon marks entrance NE.
12870 *E 3099.5*	-Zverinacki Kanal.	44° 10.3´ N 14° 52.5´ E	**Fl.(2)W.** period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	21 **6**	4	White tower, gallery; 118.	Visible 132°-318°.
12872 *E 3134*	**-Otocic Sestrice.**	43° 51.2´ N 15° 12.3´ E	**Fl.W.** period 8s fl. 1s, ec. 7s	154 **47**	**20**	White tower, red diagonal stripes, dwelling; 85.	**AIS** (MMSI No 92381150). Reserve light range 12M.
12874 *E 3133.5*	-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 *E 3133*	-Hrid Skoljic.	43° 53.0´ N 15° 12.5´ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	20 **6**	3	Green tower, column, gallery; 16.	Visible 014°-216°.
12875 *E 3132.8*	-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 *E 3132.5*	-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 *E 3100*	--Bozava, on Rt Sv. Nedjela.	44° 08.5´ N 14° 54.7´ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	26 **8**	4	White tower, column, gallery; 16.	
12877 *E 3121.3*	--Otocic Utra.	44° 05.4´ N 14° 59.4´ E	**Fl.(2)G.** period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	23 **7**	4	Green tower, column, gallery; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CROATIA				
12878 *E 3121.5*	--Rt Kamik.	44° 05.3´ N 14° 59.6´ E	**Fl.R.** period 5s fl. 0.5s, ec. 4.5s	26 **8**	3	Red tower, gallery; 16.	
12879 *E 3121.7*	--Lucina.	44° 05.0´ N 14° 59.9´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	23 **7**	3	Red tower, column, gallery; 16.	
12880 *E 3122*	--Brbinj, on Rt Koromasnjak.	44° 04.4´ N 15° 00.5´ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	28 **8**	4	White tower, column, gallery; 20.	
12884 *E 3120*	-Otok Rava, on Rt Garmina.	44° 01.4´ N 15° 03.2´ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	20 **6**	4	Green tower, gallery; 16.	
12888 *E 3119*	-Otocic Maslinovac.	44° 00.1´ N 15° 05.4´ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	95 **29**	4	White tower, gallery; 16.	
12892 *E 3124*	--Uvala Zmanscica.	43° 58.3´ N 15° 07.0´ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	20 **6**	4	Green round tower, column, gallery; 16.	
12897 *E 3127*	---Harbor, E. head.	43° 56.2´ N 15° 10.2´ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	23 **7**	3	Green tower, column, gallery; 16.	
12898 *E 3127.4*	---N. side of reef.	43° 57.0´ N 15° 08.7´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	33 **10**	4	Red tower; 16.	
12902 *E 3131*	--S. breakwater, head.	43° 56.1´ N 15° 10.0´ E	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s	23 **7**	4	Red tower, column, gallery.	
12904 *E 3132*	-Otok Lavdara.	43° 56.7´ N 15° 11.6´ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	26 **8**	5	White tower, column, gallery; 23.	Visible 005°-276°.
12906 *E 3132.3*	-Otocic Lavdara.	43° 54.9´ N 15° 13.8´ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	33 **10**	8	White tower, gallery; 20.	
12908 *E 3106*	--Otocic Tri Sestrice, on SE. islet.	44° 10.3´ N 15° 00.6´ E	**Fl.(2)W.R.** period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	52 **16**	W. 8 R. 6	Square stone tower, dwelling; 52.	R. 225°-234°, W.-225°. **AIS** (MMSI No 992381330).
12912 *E 3107*	--Otok Rivanj, on Rt Zanavin.	44° 10.0´ N 15° 01.2´ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	26 **8**	4	White tower, column, gallery; 16.	Visible 349°-209°.
12916 *E 3107.2*	---Harbor, mole, head.	44° 09.1´ N 15° 01.8´ E	**Fl.(2)R.** period 4s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2s	23 **7**	4	Red tower, column, gallery; 16.	
12918 *E 3107.5*	-Rt Rivanjski.	44° 08.5´ N 15° 03.3´ E	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s	26 **8**	4	Red tower, column, gallery; 20.	Visible 172°-091°.
12920 *E 3108*	--Otok Sestrunj, on Rt Trska.	44° 08.8´ N 15° 01.5´ 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 *E 3121*	--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, gallery; 20.	Visible 326°-254°.
12924 *E 3110*	--Iz Veli.	44° 03.1´ N 15° 06.7´ E	**Fl.R.** period 2s fl. 0.3s, ec. 1.7s	20 **6**	4	Red tower, column, gallery; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CROATIA				
12928 *E 3112*	--Uvala Komaseva, mole, head.	44° 01.7′ N 15° 08.4′ E	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s	20 **6**	4	Red tower, column, gallery; 16.	
12932 *E 3115*	-Otocic Mrtovnjak.	44° 00.6′ N 15° 10.5′ E	**Fl.(2)R.** period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	89 **27**	7	White tower, column, gallery; 16.	
12936 *E 3116*	-Otocic Karantunic.	44° 00.5′ N 15° 14.3′ 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	White tower; 16.	
12938 *E 3116.3*	-Shoal beacon.	43° 56.7′ N 15° 15.2′ E	**Fl.(2)W.** period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	20 **6**	3	ISOLATED DANGER BRB, column, topmark; 16.	
12940 *E 3116.2*	-Otocic Balabra Vela.	43° 56.8′ N 15° 16.7′ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	33 **10**	5	Square stone tower; 13.	Visible 090°-313°.
12944 *E 3116.4*	-Hrid Galigolica.	43° 52.6′ N 15° 22.2′ E	**Fl.(2)R.** period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	36 **11**	7	Square stone tower, pedestal; 26.	Visible 155°-325°.
12948 *E 3117*	-Otocic Kosara, W. head.	43° 53.0′ N 15° 24.3′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	36 **11**	11	White tower, column, gallery, pedestal; 23.	
12950 *E 3118*	-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 *E 3106.4*	-Plicina Sajda.	44° 11.2′ N 15° 02.0′ E	**Fl.(2)W.** period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	10 **3**	5	ISOLATED DANGER BRB, tower, topmark; 13.	
12954 *E 3150*	-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, gallery; 20.	Visible 020°-302°.
12954.5 *E 3151*	--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, gallery; 20.	Visible 344°-200°.
12956 *E 3152*	-Ugljan.	44° 07.8′ N 15° 06.4′ E	**Fl.(2)R.** period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	20 **6**	4	Red tower, column, gallery; 16.	Visible 220°-286° and 352°-090°.
12960 *E 3154*	--Lukoran, quay, N. head.	44° 06.3′ N 15° 09.1′ E	**Fl.R.** period 2s fl. 0.3s, ec. 1.7s	20 **6**	3	Red tower, column, gallery; 16.	Visible 018°-168°.
12964 *E 3156*	--Sutomiscica, on Rt Sveti Grgur.	44° 06.0′ N 15° 10.2′ E	**Fl.(2)R.** period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	23 **7**	4	Red tower; 20.	
12968 *E 3157*	--Poljana, on the shoal.	44° 05.5′ N 15° 11.3′ E	**Fl.G.** period 2s fl. 0.3s, ec. 1.7s	23 **7**	3	Green tower, column, gallery; 16.	
12972 *E 3158*	--Preko, breakwater, head.	44° 04.9′ N 15° 11.3′ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	23 **7**	3	Red tower, column, gallery; 16.	Visible 205°-125°.
12976 *E 3160*	--Otocic Osljak, NE. point.	44° 04.7′ N 15° 12.6′ 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**	8	White tower; 30.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CROATIA				
12980 *E 3164*	--Kali, E. mole, head.	44° 04.0´ N 15° 12.2´ E	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s	23 **7**	3	Red tower, column, gallery; 16.	
12984 *E 3165*	--Gazemica.	44° 05.2´ N 15° 15.8´ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	23 **7**	4	Green tower, column, gallery.	
12985 *E 3166*	--Kukljica.	44° 02.1´ N 15° 15.1´ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	23 **7**	4	Green tower, column, gallery; 16.	
12986 *E 3167*	---Mole, head.	44° 02.0´ N 15° 15.0´ E	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s	23 **7**	4	Red tower, column, gallery; 20.	
12988 *E 3140*	-Luka Petrcane, on Rt Radman.	44° 10.8´ N 15° 09.3´ E	**Fl.W.R.** period 3s fl. 0.3s, ec. 2.7s	20 **6**	W. 7 R. 4	Square masonry tower; 16.	R. 141°-262°, W.-141°.
12992 *E 3142*	**-Ostri Rat.**	44° 07.8´ N 15° 12.3´ 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, spiral staircase; 46.	Reserve light range 7M.
12996 *E 3144*	-Zadar, breakwater, head.	44° 07.1´ N 15° 13.5´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	20 **6**	4	White tower, red bands, red cupola; 16.	
13000 *E 3148*	--Istarske Obala, NW. side.	44° 07.1´ N 15° 13.3´ E	**Fl.G.** period 2s fl. 0.3s, ec. 1.7s	20 **6**	4	White tower, green bands, green cupola; 16.	
13003 *E 3167.5*	-Otocic Misnjak.	44° 01.6´ N 15° 15.8´ E	**Fl.(2)W.** period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	23 **7**	8	White tower, gallery; 20.	
13004 *E 3168*	-Sukosan, on Rt Podvara.	44° 02.6´ N 15° 17.8´ E	**Fl.W.R.** period 5s fl. 0.5s, ec. 4.5s	20 **6**	W. 8 R. 5	White square tower; 16.	R. 207°-318°, W.-207°.
	PASMANSKI KANAL:						
	-Otok Pasman:						
13010 *E 3172*	--Nevidane.	43° 58.9´ N 15° 20.6´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	23 **7**	4	Red tower, column, gallery; 16.	
13016 *E 3174*	-Otocic Galesnjak, shoal on S. side.	43° 58.5´ N 15° 23.0´ E	**Fl.G.** period 3s fl. 0.6s, ec. 2.4s	23 **7**	2	Green tower, column, gallery; 16.	
13032 *E 3180*	-Otocic Babac, W. point.	43° 57.4´ N 15° 23.6´ E	**Fl.(2)W.** period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	23 **7**	10	Stone tower, dwelling; 20.	Reserve light range 7M.
13044 *E 3184*	-Otocic Planac, N. point.	43° 56.4´ N 15° 25.7´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	23 **7**	3	Red tower, column, gallery; 16.	Visible 051°-321°.
13048 *E 3186*	-Otocic Cavatul, off NE. extremity.	43° 56.3´ N 15° 24.8´ E	**Fl.G.** period 3s fl. 0.6s, ec. 2.4s	20 **6**	3	Green tower, gallery; 20.	
13052 *E 3185*	-Biograd, NW. mole, head.	43° 56.2´ N 15° 26.3´ E	**Fl.(2)G.** period 4s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2s	23 **7**	3	White tower, column, gallery; 16.	
13056 *E 3188*	-Otocic Sv. Katarina, SW. point.	43° 55.9´ N 15° 25.7´ E	**Fl.(2)W.** period 8s fl. 0.5s, ec. 2s fl. 0.5s, ec. 5s	28 **9**	8	White tower, concrete base, dwelling; 16.	Visible 309°-142°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CROATIA				
13058 *E 3191*	-Tkon.	43° 55.4´ N 15° 25.1´ E	**Fl.(2)R.** period 5s fl. 0.3s, ec. 1s fl. 0.3s, ec. 3.4s	23 **7**	4	Red tower, column, gallery; 16.	
13060 *E 3193*	-Otocic Ostarije, island, S. side.	43° 54.7´ N 15° 28.0´ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	23 **7**	7	White tower, column, gallery; 16.	Visible 292°-140°.
13062 *E 3194*	-Pakostane.	43° 54.3´ N 15° 30.5´ E	**Fl.G.** period 5s fl. 0.5s, ec. 4.5s	23 **7**	4	Green tower, column, gallery; 16.	
13063 *E 3197*	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, column, gallery; 20.	Visible 183°-290° and 343°-155°.
13064 *E 3196*	Otocici Artice.	43° 51.9´ N 15° 31.5´ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	24 **7**	7	White tower, column, gallery, pedestal; 20.	Visible 302°-228°.
	PIROVACKI ZALIV:						
13068 *E 3205*	-Plicina Kusija.	43° 51.6´ N 15° 33.3´ E	**Q.(6)+L.Fl.W.** period 15s	20 **6**	5	S. CARDINAL YB, tower, topmark; 13.	
13072 *E 3214*	-Pirovac, quay, S. head.	43° 48.9´ N 15° 40.0´ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	20 **6**	3	Green tower, column, gallery; 16.	
13076 *E 3202*	Otocic Prisnjak, near W. extremity.	43° 49.5´ N 15° 33.5´ E	**Fl.(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, dwelling; 49.	Visible 249°-146°. **AIS** (MMSI No 992381140).
13080 *E 3200*	Hrid Misine (Kamicac).	43° 48.7´ N 15° 33.8´ E	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s	29 **9**	5	Red tower, column, gallery, pedestal; 16.	
13084 *E 3206*	-Hramina, head of mole, N. side of Otok Murter.	43° 49.4´ N 15° 35.4´ E	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s	23 **7**	2	Red tower, column, gallery; 16.	
13088 *E 3204*	-Otocic Tegina, NE. point.	43° 50.2´ N 15° 35.4´ E	**Fl.W.** period 2s fl. 0.3s, ec. 1.7s	23 **7**	4	White round tower, metal column, gallery, pedestal; 16.	
	MURTERSKI KANAL:						
13092 *E 3208*	-Betina, landing mole, head.	43° 49.3´ N 15° 36.3´ E	**Fl.G.** period 5s fl. 0.5s, ec. 4.5s	23 **7**	3	Green round tower, column, gallery; 16.	
13096 *E 3212*	-Rt Rat.	43° 49.4´ N 15° 36.9´ E	**Fl.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° 38.7´ E	**Fl.R.** period 5s fl. 0.5s, ec. 4.5s	23 **7**	4	Red tower, column, gallery; 16.	
13112 *E 3234*	-Greben Bacvica.	43° 44.9´ N 15° 42.1´ E	**Fl.(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	**Fl.(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° 40.7´ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	57 **17**	3	Green conical tower, gallery; 23.	Visible 282°-195°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CROATIA				
13124 *E 3219*	Rt Murteric, SW. side of Otok Murter.	43° 46.5´ N 15° 37.2´ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	62 **19**	3	Green tower, column, gallery; 20.	
13128 *E 3224*	Otocic Kukuljari, E. islet.	43° 45.6´ N 15° 38.0´ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	36 **11**	10	White tower, column, gallery, concrete base; 16.	
13132 *E 3222*	Sv. Nikola, head of mole (Otok Murter).	43° 46.6´ N 15° 37.8´ E	**Fl.G.** period 5s fl. 0.3s, ec. 4.7s	16 **5**	4	Green tower, column, gallery; 13.	
13136 *E 3225*	Otok Smokvica Vela, island, N. point.	43° 44.0´ N 15° 28.3´ E	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s	43 **13**	5	Square stone tower; 26.	
13138 *E 3225.1*	Otocic Babina Guzica.	43° 42.6´ N 15° 29.3´ E	**Fl.(2)G.** period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	23 **7**	5	Green tower; 20.	Visible 215°-140°.
13140 *E 3225.2*	Otocic Mrtovnjak.	43° 42.5´ N 15° 32.1´ E	**Fl.(2)W.** period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	39 **12**	10	Square stone tower; 26.	
13142 *E 3225.3*	Cavlin Shoal.	43° 44.5´ N 15° 33.4´ 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 *E 3229.75*	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 *E 3231*	-Otok Tijat, on Rt Tijascica.	43° 42.4´ N 15° 46.4´ 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	Square stone tower; 26.	Visible 265°-128°.
13148 *E 3230.5*	Obonjon.	43° 40.8´ N 15° 47.3´ 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, gallery; 16.	
13152 *E 3230*	Plicina Sestre, in Zlarinski Kanal.	43° 41.1´ N 15° 48.7´ 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 *E 3240*	-Otok Prvic, Uvala Prvicluka, mole, head.	43° 43.4´ N 15° 47.2´ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	23 **7**	3	Green tower, column, gallery; 16.	
13160 *E 3238*	- -Prvic Sepuriue, mole, head.	43° 43.9´ N 15° 47.2´ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	20 **6**	3	Green tower, column, gallery; 16.	Visible 337°-129°.
	LUKA SIBENIK:						
	-Sibenski Kanal:						
13164 *E 3232*	- -Tribunj.	43° 45.2´ N 15° 44.6´ E	**Fl.G.** period 5s fl. 0.5s, ec. 4.5s	23 **7**	3	Green tower, column, gallery; 16.	
13164.4 *E 3232.5*	- - -Breakwater, head.	43° 45.0´ N 15° 44.9´ E	**Fl.(2)G.** period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	20 **6**	4	Green tower, column, gallery; 16.	Visible 273°-136°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CROATIA				
13168 *E 3236*	--Vodice, S. mole, head.	43° 45.3´ N 15° 46.6´ E	**Fl.R.** period 5s fl. 0.5s, ec. 4.5s	23 **7**	3	Red tower, column, gallery; 16.	Visible 096°-033°.
	-Sibenska Vrata:						
13172 *E 3244*	--Luka Zlarin, mole, head.	43° 42.0´ N 15° 50.0´ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	26 **8**	2	White square tower, column, gallery; 23.	
13176 *E 3243*	--Rt Konj, Otok Lupac, SE. point.	43° 42.9´ N 15° 48.9´ E	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s	26 **8**	2	Red tower, column, gallery; 16.	
13180 *E 3242*	--Plicina Rozenik.	43° 42.8´ N 15° 49.6´ E	**Fl.G.** period 5s fl. 0.5s, ec. 4.5s	23 **7**	6	Green tower, column, gallery; 16.	**AIS** (MMSI No 992381360).
13184 *E 3248*	--Rt Jadrija, entrance, N. side.	43° 43.3´ N 15° 51.0´ E	**Fl.(2)R.** period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	36 **11**	9	Stone tower, gallery, dwelling; 39.	Visible 160°-098°. **AIS** (MMSI No 992381210). Reserve light range 6M. **Horn:** 2 bl. ev. 20s (bl. 4s, si. 2s, bl. 4s, si. 10s).
	-Kanal Sv Ante:						
13188 *E 3250*	--Hrid Rocni, entrance, S. side.	43° 43.2´ N 15° 51.1´ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	23 **7**	3	Green tower, column, gallery; 16.	
13192 *E 3251*	--Fort Sv. Nikola, NW. side.	43° 43.3´ N 15° 51.3´ E	**Fl.G.** period 2s fl. 0.3s, ec. 1.7s	19 **6**	4	Green tower; 16.	Visible 045°-234°.
13196 *E 3256*	--Rt Debeli, N. side.	43° 43.5´ N 15° 51.3´ E	**Fl.R.** period 2s fl. 0.3s, ec. 1.7s	21 **6**	1	Red tower, column, gallery; 16.	Visible 240°-050°.
13200 *E 3252*	--Rt Senisna, S. shore.	43° 43.5´ N 15° 51.5´ E	**Fl.G.** period 2s fl. 0.3s, ec. 1.7s	20 **6**	4	Green round tower, gallery; 23.	
13204 *E 3260*	--Rt Svet Ante, S. shore.	43° 43.6´ N 15° 52.3´ E	**Fl.G.** period 2s fl. 0.3s, ec. 1.7s	29 **9**	4	Green round tower, gallery, pedestal; 23.	
13208 *E 3262*	--Rt Svet Kriz, N. shore.	43° 43.7´ N 15° 52.6´ E	**Fl.R.** period 2s fl. 0.3s, ec. 1.7s	23 **7**	1	Red round tower, gallery, pedestal; 16.	Visible 243°-027°.
13212 *E 3258*	--Rt Baba, N. shore.	43° 43.7´ N 15° 52.1´ E	**Fl.R.** period 2s fl. 0.3s, ec. 1.7s	20 **6**	1	Red tower, column, gallery; 16.	
13216 *E 3263*	--Rt Juzni Turan, S. shore.	43° 43.7´ N 15° 53.1´ E	**Fl.(2)G.** period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	26 **8**	3	Green tower, column, gallery; 16.	
13220 *E 3264*	--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, gallery; 16.	
13224 *E 3266*	-Sibenik, on Gata Krk.	43° 45.0´ N 15° 53.5´ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	23 **7**	4	White tower, column, gallery; 16.	
13231 *E 3265.8*	-Gat Vrulje.	43° 43.7´ N 15° 53.7´ E	**Fl.(3)W.** period 9s fl. 0.3s, ec. 1s fl. 0.3s, ec. 1s fl. 0.3s, ec. 6.1s	30 **9**	2	White tower, column and gallery.	
13232 *E 3267*	-Gata Martinska, S. corner.	43° 44.3´ N 15° 52.6´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	20 **6**	2	Red tower, column, gallery; 16.	Rijecka Krka is marked by lights shown from shore points.
13234 *E 3267.5*	-Rt. Vela Kapela.	43° 45.7´ N 15° 51.0´ E	**Fl.G.** period 2s fl. 0.3s, ec. 2.7s	23 **7**	3	Green round tower, column; 10.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CROATIA				
	SIBENSKI KANAL:						
13236 *E 3277*	-Plicina Krapanj.	43° 41.2´ N 15° 54.0´ E	**Fl.R.** period 2s fl. 0.3s, ec. 1.7s	23 **7**	2	Red tower, column, gallery; 16.	Visible 080°-313°.
13240 *E 3278*	-Otok Kraprnj, mole, head.	43° 40.3´ N 15° 55.1´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	21 **6**	2	Red tower, column, gallery; 16.	Visible 134°-356°.
13248 *E 3279*	-Otok Krbela Vela, SE. point.	43° 39.3´ N 15° 54.8´ E	**Fl.R.** period 2s fl. 0.5s, ec. 1.5s	23 **7**	4	Red tower, column, gallery; 16.	Visible 147°-057°.
13252 *E 3280*	-Rt Ostrica Vela.	43° 38.9´ N 15° 54.1´ E	**Fl.G.** period 2s fl. 0.5s, ec. 1.5s	30 **9**	3	Green tower, column, gallery; 16.	
13256 *E 3276*	-Otocic Dvainka, NW. point.	43° 39.3´ N 15° 52.7´ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	25 **8**	8	Square stone tower; 16.	Visible 326°-172°.
13258 *E 3276.6*	-Zablace, breakwater, head.	43° 42.3´ N 15° 52.0´ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	20 **6**	4	Green tower, column, 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, pedestal; 16.	
13260 *E 3275*	-Rt Rat, Otok Zlarin, SE. extremity.	43° 39.7´ N 15° 52.2´ 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°. **AIS** (MMSI No 992381230).
13264 *E 3275.5*	-Otocic Drvenik.	43° 40.1´ N 15° 52.9´ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	20 **6**	4	Green tower, column, gallery; 16.	
13268 *E 3274*	Otocic Komorica, S. entrance to Zlarinski Kanal.	43° 39.0´ N 15° 50.4´ E	**Fl.(2)R.** period 8s fl. 0.5s, ec. 2s fl. 0.5s, ec. 5s	36 **11**	5	Red tower, gallery; 23.	Visible 080°-328°.
13272 *E 3229.5*	Otok Zmajan, on Rt Sir.	43° 40.8´ N 15° 46.4´ E	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s	33 **10**	2	Red square tower, pedestal; 16.	
13276 *E 3228.5*	Otok Kaprije, on Rt Lemes.	43° 40.2´ N 15° 43.3´ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	26 **8**	3	Green square tower, pedestral; 13.	
13280 *E 3229*	-Luka Kaprije, quay, head.	43° 41.3´ N 15° 42.5´ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	21 **6**	3	White tower, column, gallery; 20.	
13284 *E 3229.7*	Otok Kakan, SE. extremity.	43° 40.7´ N 15° 41.5´ E	**Fl.(2)R.** period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	26 **8**	4	Red square tower, pedestral; 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.	Visible 350°-334°.
13288 *E 3229.8*	Brak Prascica.	43° 40.5´ N 15° 38.6´ 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° 39.9´ N 15° 39.4´ E	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s	30 **9**	2	Red tower, column, gallery; 16.	Fl.G. 3s 4M shown 300 meters S.
13296 *E 3229.2*	Otocic Ravan.	43° 39.6´ N 15° 44.2´ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	39 **12**	10	Square stone tower, pedestal; 26.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CROATIA				
13298 *E 3227.7*	-Rasohe.	43° 37.6´ N 15° 43.8´ E	**Fl.(2)R.** period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	23 **7**	5	Red tower; 20.	Visible 188°-061°.
13300 *E 3228*	Otocic Hrbosnjak.	43° 38.8´ N 15° 44.3´ 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° 34.5´ E	**Fl.(2)W.** period 30s fl. 1.2s, ec. 6.6s fl. 1.2s, ec. 21s	125 **38**	**24**	Stone tower, dwelling; 69.	**AIS** (MMSI No 992381020). Reserve light range 12M.
13308 *E 3283*	Primosten, mole, head.	43° 35.1´ N 15° 55.4´ E	**Fl.R.** period 5s fl. 0.5s, ec. 4.5s	26 **8**	3	Red square tower, column, gallery; 23.	
13312 *E 3284*	-Vojske, on W. mole, head.	43° 35.1´ N 15° 55.7´ E	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s	23 **7**	3	Red tower, column, gallery; 16.	Visible 259°-154°.
13316 *E 3282*	-Rt Kremik.	43° 34.5´ N 15° 55.0´ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	33 **10**	8	White tower; 26.	Visible 339°-205°.
13318 *E 3285.5*	--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, pedestal; 16.	Visible 220°-110°.
13319 *E 3285.51*	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, pedestal; 16.	Visible 357°-248°.
13320 *E 3285*	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, gallery; 23.	
13322 *E 3286.5*	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; 20.	
13324 *E 3286*	**Hrid Mulo.**	43° 30.9´ N 15° 55.1´ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	75 **23**	**21**	Stone tower, dwelling; 58.	Reserve light range 12M. **AIS** (MMSI No 992381090).
	LUKA ROGOZNICA:						
13328 *E 3288*	-Rt Gradina.	43° 31.3´ N 15° 57.7´ E	**Fl.R.** period 5s fl. 0.5s, ec. 4.5s	50 **15**	4	Red square tower; 13.	Visible 248°-173°.
13332 *E 3290*	-Uvala Razanj, entrance, E. side.	43° 30.7´ N 15° 58.5´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	22 **7**	3	Red tower, column, gallery; 20.	Visible 214°-144°.
13333 *E 3289*	-Hrid Razanjski Skoljic, N. of Razanj.	43° 30.9´ N 15° 58.3´ E	**Q.(9)W.** period 15s	23 **7**	3	W. CARDINAL YBY, column, topmark.	
13334 *E 3291.5*	-Cape Kopara.	43° 31.2´ N 15° 58.3´ E	**Fl.(2)R.** period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	30 **9**	3	Red square tower, gallery, pedestal.	
13336 *E 3287*	-Hrid Kalebinjak, E. of Otocic Smokvica.	43° 30.8´ N 15° 56.8´ 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 *E 3292*	-Pier, outer head.	43° 31.6´ N 15° 58.1´ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	23 **7**	3	Green tower, column, gallery; 16.	
13344 *E 3293*	Otocic Muljica.	43° 28.4´ N 16° 00.7´ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	49 **15**	5	White tower, column, gallery; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CROATIA				
13346 *E 3292.5*	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, pedestal; 26.	Visible 288°-198°.
	DRVENICKI KANAL:						
13348 *E 3294*	-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. **AIS** (MMSI No 992381130). **Siren:** 1 bl. ev. 30s (bl. 4s, si. 26s).
13352 *E 3295*	-Otok Drvenik Mali, on Rt Pasika.	43° 27.3´ N 16° 04.4´ 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, pedestal; 33.	
	-Otok Drvenik Mali:						
13356 *E 3295.4*	--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, gallery; 16.	W. 028°-252°, R.-258°, W.-298°.
13358 *E 3295.7*	-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.	
13360 *E 3296*	-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, gallery; 16.	
13364 *E 3297*	-Rt Artatur.	43° 28.7´ N 16° 07.7´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	26 **8**	4	Square stone tower, pedestal; 13.	
	TROGIRSKI ZALIV:						
13368 *E 3298*	-Hrid Galera.	43° 28.3´ N 16° 11.2´ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	26 **8**	10	White tower, pedestal; 16.	**AIS** (MMSI No 992381390).
13370 *E 3331.5*	-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, column, topmark; 20.	**AIS** (MMSI No 992381270).
13372 *E 3299*	-Balkun, rock, entrance.	43° 28.4´ N 16° 11.9´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	26 **8**	3	Red tower, pedestal; 16.	
13376 *E 3299.4*	-Zaporinovac, islet, entrance.	43° 28.7´ N 16° 12.5´ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	23 **7**	3	Green tower, pedestal; 16.	
13384 *E 3302*	-Hrid Celice.	43° 30.0´ N 16° 11.6´ 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, pedestal; 23.	
13388 *E 3304*	-Zaliv Marina, Rt Pasji Rat.	43° 30.6´ N 16° 07.8´ E	**Fl.R.** period 5s fl. 0.5s, ec. 4.5s	25 **8**	4	Red conical tower, gallery, pedestal; 23.	
13392 *E 3306*	-Pier.	43° 30.8´ N 16° 06.9´ E	**Fl.(2)G.** period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	23 **7**	4	Green tower, column, gallery; 16.	
13396 *E 3308*	-Rt Cubrijan, Trogirski Kanal, entrance, S. side.	43° 30.7´ N 16° 14.3´ E	**Fl.G.** period 2s fl. 0.3s, ec. 1.7s	26 **8**	4	Green tower, column, gallery; 16.	
13400 *E 3314*	-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, gallery; 13.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CROATIA				
	LUKA SPLIT:						
13408 *E 3349*	-Breakwater, head.	43° 30.1´ N 16° 26.2´ E	**L.Fl.G.** period 6s fl. 2s, ec. 4s	36 **11**	10	Green tower, gallery, house; 33.	Visible 285°-252°. 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 *E 3350*	-W. breakwater, head.	43° 30.1´ N 16° 26.1´ E	**Fl.R.** period 6s fl. 0.5s, ec. 5.5s	29 **9**	5	Red tower, column, gallery; 20.	Visible 139°-020°.
13418 *E 3351*	-Inner breakwater.	43° 30.2´ N 16° 25.8´ E	**Fl.R.** period 2s fl. 0.3s, ec. 1.7s	20 **6**	3	Red structure, column, glass control building; 16.	Visible 016°-312°.
13420 *E 3354*	-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.	
13424 *E 3356*	-Gat Listopada, SW. corner.	43° 30.4´ N 16° 26.3´ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	26 **8**	4	White square tower, column, gallery; 16.	
13425 *E 3348.2*	-Pomorac.	43° 30.1´ N 16° 26.6´ E	**Fl.(2)W.** period 20s fl. 0.8s, ec. 4.6s fl. 0.8s, ec. 13.8s	177 **54**	10	Square tower.	
13426 *E 3348*	-Zenta, E. mole, head.	43° 29.9´ N 16° 27.5´ E	**Fl.(2)G.** period 4.5s fl. 0.3s, ec. 1s fl. 0.3s, ec. 2.9s	30 **9**	4	Green tower, concrete base; 23.	Visible 263°-165°.
13427 *E 3331.2*	-Rt Ciova.	43° 29.3´ N 16° 23.5´ E	**Fl.(3)W.** period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4.5s	30 **9**	7	White tower, gallery, concrete base; 23.	
	KASTELANSKI ZALIV:						
13428 *E 3331*	-Rt Marjan, E. entrance point, mole, head.	43° 30.5´ N 16° 23.3´ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	25 **8**	5	Green square stone tower, column, gallery; 20.	Visible 290°-210°.
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, gallery; 16.	
13434 *E 3318*	Kastel Stari.	43° 33.0´ N 16° 20.7´ E	**Fl.(2)G.** period 4s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2s	20 **6**	4	Green tower, gallery; 16.	
13436 *E 3327*	-Lora, N. breakwater, head.	43° 31.6´ N 16° 25.4´ 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° 25.4´ 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° 24.9´ 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° 31.2´ N 16° 25.5´ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	20 **6**	3	White tower, gallery; 16.	
13448 *E 3323*	-Hridi Galija.	43° 31.9´ N 16° 25.1´ E	**Fl.R.G.** period 3s fl. 0.3s, ec. 2.7s	26 **8**	R. 4 G. 3	Round structure; 26.	G. 061°-103°, R.-061°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CROATIA				
13452 *E 3324*	-Plicina Silo, NE. of Rt Rat.	43° 31.9´ N 16° 25.8´ E	**Fl.(2)W.** period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	23 **7**	7	ISOLATED DANGER BRB, tower, topmark; 16.	
13463	-Rt Grmovac.	43° 32.3´ N 16° 26.4´ E	**Fl.(2)W.** period 5s	39 **12**	4		
13464 *E 3325*	-On rock SW. of Otocic Barbarinac.	43° 32.1´ N 16° 26.7´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	33 **10**	5	Red tower, column, gallery; 20.	
13466	-Kastilac.	43° 32.8´ N 16° 23.7´ E	**F.G.**	20 **6**	3		
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° 27.9´ E	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s	24 **7**	4	Red tower, column, gallery; 16.	
13472 *E 3325.4*	-Uvala Supaval, point, E. entrance.	43° 31.8´ N 16° 26.8´ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	16 **5**	4	Green tower; 3.	
13476 *E 3330*	-Luka Poljud, pier.	43° 31.0´ N 16° 25.2´ E	**F.G.**	13 **4**	3	Green column; 10.	F.R. light shown from head of pier about 0.2 km. eastward.
	BRACKI KANAL:						
13478 *E 3357*	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.	Visible 356°-063°.
13480 *E 3356.5*	-Stobrec Bay, W. side.	43° 30.0´ N 16° 31.6´ 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**	3	Red column.	Visible 133°-033°.
13492 *E 3376*	--Mole, head.	43° 26.5´ N 16° 41.7´ E	**Fl.W.G.** period 3s fl. 0.3s, ec. 2.7s	21 **6**	W. 4 G. 2	White tower, column, gallery; 16.	G. 334°-038°, W.-334°.
13496 *E 3378*	-Kutlesa, mole, head.	43° 24.2´ N 16° 48.5´ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	19 **6**	4	Green tower, column, gallery; 16.	
13502 *E 3386*	-Soline-Brela, breakwater, head.	43° 21.9´ N 16° 55.9´ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	21 **6**	4	White tower, column, gallery; 16.	
13504 *E 3387*	-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, gallery; 16.	
	SPLITSKI KANAL:						
	-Otok Solta:						
13508 *E 3332*	--Luka Maslinica (Novsko Zdrilo), on Rt Sv. Nicola.	43° 23.7´ N 16° 12.1´ E	**Fl.W.R.** period 3s fl. 0.5s, ec. 2.5s	34 **10**	W. 7 R. 4	Square stone tower, cupola; 23.	R. 011°-056°, W.-011°.
13509 *E 3331.9*	--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.	Visible 355°-255°.
13510 *E 3333*	--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, gallery; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CROATIA				
13512 *E 3334*	---Rt Bad.	43° 24.0´ N 16° 18.4´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	26 **8**	4	Red tower, gallery; 20.	Visible 018°-288°.
13514 *E 3334.5*	--Necujam.	43° 23.7´ N 16° 19.6´ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	30 **9**	5	White tower, gallery, concrete base; 23.	Visible 026°-305°.
13516 *E 3336*	--Uvala Stomorska, entrance, E. side.	43° 22.4´ N 16° 21.2´ E	**Fl.(2)R.** period 5s fl. 0.3s, ec. 1s fl. 0.3s, ec. 3.4s	36 **11**	3	Red tower, column, gallery; 16.	
13520 *E 3338*	-Rt Livka.	43° 19.8´ N 16° 23.9´ E	**Fl.(2)W.** period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	37 **11**	8	Red tower, structure, white hut; 33.	Visible 168°-058°. **AIS** (MMSI No 992381420).
13524 *E 3340*	-Otok Mrduja.	43° 20.3´ N 16° 24.6´ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	46 **14**	4	White tower, column, gallery; 20.	
13528 *E 3342*	-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, dwelling; 46.	Visible 340°-175°. Reserve light range 8M. **AIS** (MMSI No 992381240). **Siren:** 2 bl. ev. 42s (bl. 4s, si. 4s, bl. 4s, si. 30s).
13532 *E 3344*	-Milna, on Rt Bijaka.	43° 19.8´ N 16° 26.1´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	26 **8**	3	White square tower, gallery; 26.	
13536 *E 3346*	--Inner port, entrance.	43° 19.6´ N 16° 26.9´ E	**Fl.(2)R.** period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	23 **7**	4	Red tower, column, gallery; 16.	
	BRACKI KANAL (OTOK BRAC):						
13540 *E 3364*	-Sutivan, SW. angle of mole, head.	43° 23.2´ N 16° 28.8´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	21 **6**	2	Red tower, column, gallery; 16.	
13544 *E 3366.2*	-Supetar, mole, head.	43° 23.2´ N 16° 33.3´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	23 **7**	5	Red tower, column, gallery; 16.	
13545 *E 3366*	--Old mole, head.	43° 23.1´ N 16° 33.3´ 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° 36.4´ E	**Fl.R.** period 2s fl. 0.3s, ec. 1.7s	21 **6**	2	Red tower, column, gallery, pedestal; 16.	
13552 *E 3370*	-Postire, mole, head.	43° 22.7´ N 16° 37.6´ E	**Fl.R.** period 2s fl. 0.3s, ec. 1.7s	23 **7**	3	Square stone tower, red cupola; 20.	Visible 326°-259°.
13556 *E 3380*	-Luka Pucisca, on Rt Sv. Nikola.	43° 21.7´ N 16° 44.1´ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	66 **20**	8	Square stone tower, gallery, building; 36.	
13560 *E 3384*	-Rt Povlja.	43° 20.4´ N 16° 49.9´ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	24 **7**	7	Square stone tower; 16.	
13564 *E 3392*	-Rt Rascatna.	43° 18.8´ N 16° 53.9´ 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	Square stone tower; 26.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CROATIA				
	HVARSKI KANAL (OTOK BRAC):						
13568 *E 3396*	-Luka Sumartin, entrance, E. side.	43° 16.8´ N 16° 52.4´ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	26 **8**	7	White square stone tower, cupola, hut; 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, gallery; 26.	
13576 *E 3400*	-Bol, mole, head.	43° 15.6´ N 16° 39.4´ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	24 **7**	3	Square stone tower, green cupola; 23.	
13580 *E 3388*	-Makarska, Poluotocica Sveta Petar, W. head.	43° 17.7´ N 17° 00.5´ 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° 01.2´ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	23 **7**	4	White tower, column, gallery; 16.	
13586 *E 3393*	-Tucepi.	43° 15.7´ N 17° 03.5´ E	**Fl.R.** period 5s fl. 0.5s, ec. 4.5s	23 **7**	4	Red tower, column, gallery; 16.	
13588 *E 3394*	-Uvala Podgora, mole, head.	43° 14.6´ N 17° 04.4´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	23 **7**	4	Red tower, column, gallery; 16.	
13590 *E 3395*	-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 *E 3493*	-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 *E 3431.5*	-Pakleni Otoci, on Otocic Vodnjak Veli, islet, SW. part.	43° 10.2´ N 16° 18.7´ E	**Fl.W.** period 6s fl. 0.5s, ec. 5.5s	102 **31**	9	Stone tower; 26.	
	-Otok Hvar:						
13596 *E 3404*	--Rt Pelegrin.	43° 11.7´ N 16° 22.0´ 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, pedestal; 26.	
13598 *E 3405*	--Hrid Baba.	43° 10.1´ N 16° 23.7´ 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 *E 3406*	--Otocic Galisnik.	43° 09.9´ N 16° 26.3´ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	36 **11**	5	Square stone tower, gallery; 20.	
13604 *E 3408*	--Luka Hvar, quay, S. corner.	43° 10.2´ N 16° 26.5´ E	**Fl.(2)G.** period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	19 **6**	4	Green tower, column, gallery; 16.	
13608 *E 3409*	--Sv. Jerolim.	43° 09.6´ N 16° 26.3´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	39 **12**	4	Red tower, column, gallery; 16.	
13612 *E 3410*	--Otocic Pokonji Dol.	43° 09.4´ N 16° 27.1´ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	66 **20**	10	Square stone tower, dwelling; 49.	Reserve light range 5M. **AIS** (MMSI No 992381400).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CROATIA				
	HVARSKI KANAL:						
13616 *E 3412*	--Uvala Pribinja, Rt Galijola, W. entrance point.	43° 11.9´ N 16° 25.5´ E	**Fl.W.** period 2s fl. 0.3s, ec. 1.7s	26 **8**	6	White column; 16.	
13620 *E 3412.4*	---Nezadovoljan, peninsula, head.	43° 11.6´ N 16° 25.8´ E	**Fl.R.** period 2s fl. 0.3s, ec. 1.7s	26 **8**	3	Red tower, column, gallery, pedestal; 16.	
13624 *E 3412.6*	---Vira, mole, head.	43° 11.4´ N 16° 25.6´ E	**Fl.G.** period 2s fl. 0.3s, ec. 1.7s	12 **4**	3	White tower; 7.	
13628 *E 3418*	--Rt Kabal.	43° 13.5´ N 16° 31.2´ E	**Fl.(2)W.** period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	52 **16**	7	White tower, column, gallery; 20.	Visible 324°-227°.
13632 *E 3414*	--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, column, gallery, white pedestal; 23.	
13636 *E 3413*	--Stari Grad, ferry landing.	43° 10.9´ N 16° 34.6´ E	**Fl.(2)G.** period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	23 **7**	4	Green tower, column, gallery; 16.	Visible 109°-020°.
13638 *E 3413.1*	---W. pier.	43° 10.9´ N 16° 34.5´ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	20 **6**	4	White tower, column, gallery; 16.	
13642 *E 3419*	--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, gallery, concrete base; 23.	Visible 082°-276°.
13644 *E 3426*	--Otocic Zecevo, E. point.	43° 11.4´ N 16° 41.8´ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	36 **11**	5	Square stone tower, pedestal; 20.	
13648 *E 3420*	--Vrboska, on Rt Kriz.	43° 10.6´ N 16° 41.2´ E	**Fl.W.** period 2s fl. 0.3s, ec. 1.7s	18 **5**	5	White tower, column, gallery; 16.	
13652 *E 3422*	---Quay.	43° 10.8´ N 16° 40.4´ E	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s	16 **5**	3	Red column, stone fort; 13.	
13656 *E 3428*	--Jelsa, N. mole, head.	43° 09.8´ N 16° 41.8´ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	23 **7**	4	Stone tower, cupola; 20.	
13660 *E 3431*	---S. mole.	43° 10.0´ N 16° 42.1´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	20 **6**	5	Red tower; 16.	
13664 *E 3490*	--Rt Sucuraj.	43° 07.5´ N 17° 11.8´ E	**Iso.W.** period 4s	46 **14**	11	Square stone tower, dwelling; 46.	Reserve light range 7M.
	OTOK VIS:						
13668 *E 3492*	--Luka Sucuraj, mole, head.	43° 07.5´ N 17° 11.3´ E	**Fl.R.** period 2s fl. 0.3s, ec. 1.7s	20 **6**	3	Red tower; 16.	
13672 *E 3432*	**-Rt Stoncica.**	43° 04.4´ N 16° 15.3´ E	**Fl.W.** period 15s fl. 0.7s, ec. 14.3s	125 **38**	**30**	Stone tower, dwelling; 92.	Visible 110°-357°. Reserve light range 12M. **AIS** (MMSI No 992381380).
13676 *E 3434*	-Hrid Krava.	43° 04.7´ N 16° 13.1´ E	**Fl.R.** period 2s fl. 0.3s, ec. 1.7s	23 **7**	4	White tower with gallery, pedestal; 16.	
13680 *E 3436*	-Viska Luka, on Otocic Host.	43° 04.6´ N 16° 12.3´ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	70 **21**	8	Stone tower, dwelling; 36.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CROATIA				
	HVARSKI KANAL:						
13684 *E 3438*	-Prirovo.	43° 03.7´ N 16° 11.4´ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	21 **6**	3	Green tower, column, gallery; 16.	
13688 *E 3439*	-Hridi Volici.	43° 05.2´ N 16° 11.6´ E	**Fl.W.** period 2s fl. 0.3s, ec. 1.7s	26 **8**	6	White tower, gallery, pedestal; 16.	
13692 *E 3440*	-Otocic Mali Barjak.	43° 03.2´ N 16° 02.4´ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	43 **13**	8	White square stone tower; 26.	
13696 *E 3442*	-Komiza, breakwater, head.	43° 02.7´ N 16° 05.2´ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	20 **6**	4	Green tower, gallery, column; 16.	
13700 *E 3443*	-Rt Stupisce.	43° 00.4´ N 16° 04.0´ 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 *E 3444*	-Otok Bisevo Kobila.	42° 59.3´ N 16° 01.2´ E	**Fl.(2)R.** period 10s fl. 1s, ec. 3s fl. 1s, ec. 5s	59 **18**	11	White tower, gallery, white building, red top; 16.	Reserve light range 7M.
13708 *E 3445*	-Hridi Lukavci.	43° 06.0´ N 16° 34.9´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	46 **14**	5	Stone tower; 26.	
13712 *E 3446*	-Otok Scedro.	43° 05.1´ N 16° 39.9´ E	**Fl.W.R.** period 6s fl. 0.5s, ec. 5.5s	68 **21**	W. 10 R. 6	Square stone tower, pedestal; 26.	R. 087°-094.5°, W.-087°.
13716 *E 3448*	-Luka Lovisce, entrance, E. side.	43° 05.9´ N 16° 42.1´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	33 **10**	3	Red tower, column, gallery; 16.	
13720 *E 3450*	-Otocic Plocica, NW. extremity.	43° 01.9´ N 16° 49.0´ E	**Fl.(2)W.** period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	82 **25**	10	Square stone tower, dwelling; 43.	**AIS** (MMSI No 992381350).
13724 *E 3451*	-Prigradica, mole, head.	42° 58.0´ N 16° 48.6´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	21 **6**	3	Red tower, column, gallery; 16.	
	NERETVANSKI KANAL:						
13732 *E 3500.5*	-Rt. Visnjica, S. side.	43° 02.4´ N 17° 25.0´ E	**Fl.(2)W.** period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	43 **13**	7	White tower, column, gallery; 16.	
13736 *E 3501*	--NE. side.	43° 02.5´ N 17° 25.1´ E	**Fl.R.** period 2s fl. 0.3s, ec. 1.7s	39 **12**	2	Red tower, column, gallery; 16.	
	-Luka Kardeljevo:						
13740 *E 3501.2*	--Rt Bad.	43° 02.8´ N 17° 25.3´ E	**Fl.R.** period 2s fl. 0.3s, ec. 1.7s	30 **9**	2	Red square tower, pyramidal structure; 13.	
13744 *E 3501.4*	--Gata Oslobodenja, W. head.	43° 02.9´ N 17° 25.4´ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	20 **6**	3	Green tower, column, gallery; 16.	
13746 *E 3501.6*	--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, pedestal; 13.	Visible 250°-138°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CROATIA				
13748.5 *E 3499.5*	--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, pedestal; 13.	Visible 232°-056°.
13750 *E 3499.2*	-Kanal Vlaska, S. side.	43° 01.7´ N 17° 25.5´ E	**Fl.Y.** period 3s fl. 0.5s, ec. 2.5s		3	Yellow post; 13.	
	-Neretva:						
13752 *E 3502*	--N. mole, head.	43° 01.2´ N 17° 26.7´ E	**Fl.R.** period 2s fl. 0.3s, ec. 1.7s	20 **6**	4	Red column, dwelling; 16.	River to Metkovic marked by Fl.G. 3s lights to starboard and Fl.R. 3s lights to port.
13756 *E 3502.2*	--S. mole, head.	43° 01.1´ N 17° 26.7´ E	**Fl.G.** period 2s fl. 0.5s, ec. 1.5s	16 **5**	4	Green hut, column; 16.	Visible 122°-235°.
	-Uvala Blaca:						
13764 *E 3516*	--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, gallery; 16.	Visible 178°-088°.
	KANAL MALOG STONA:						
13772 *E 3526*	-Rt Celjen.	42° 52.1´ N 17° 40.8´ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	33 **10**	6	White tower, column, gallery, pedestal; 16.	
13776 *E 3528*	-Rt Mirina (Mirna).	42° 51.5´ N 17° 41.3´ E	**Fl.G.** period 2s fl. 0.3s, ec. 1.7s	23 **7**	3	White tower, column, 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, gallery; 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, gallery, 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, gallery; 16.	
13792 *E 3521*	-Rt Rep Kieka.	42° 56.1´ N 17° 33.2´ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	26 **8**	5	White tower, gallery; 16.	
13796 *E 3521.3*	-Hrid Lopata.	42° 56.1´ N 17° 33.9´ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	20 **6**	4	Green tower, gallery; 16.	
13800 *E 3521.5*	-Luka Neum.	42° 55.1´ N 17° 37.0´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	20 **6**	4	Red tower, column, gallery; 16.	
13804 *E 3522*	-Rt Blaca.	42° 55.5´ N 17° 31.1´ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	30 **9**	8	White tower, column, gallery, pedestal; 23.	Visible 127°-285°.
	NERETVANSKI KANAL (POLUOTOK PELJESAC):						
13808 *E 3520*	-Luka Drace, NE. mole, head.	42° 55.5´ N 17° 31.1´ E	**Fl.W.R.** period 3s fl. 0.5s, ec. 2.5s	23 **7**	W. 4 R. 2	White tower, column; 16.	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° 16.0´ E	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s	16 **5**	4	Red tower; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CROATIA				
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, gallery; 23.	Visible 103°-135°.
13814 *E 3488.5*	-Duba.	43° 01.5´ N 17° 10.3´ 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° 00.1´ 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, gallery, pedestal; 30.	Visible 357°-258°.
13824 *E 3487*	-Uvala Luka (Lovisce).	43° 01.5´ N 17° 01.4´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	30 **9**	3	Red tower, column, gallery; 16.	Visible 243°-113°.
13828 *E 3486.5*	-Rt Osicac, Poluotok Peljesac, SW. point.	43° 00.6´ N 17° 00.3´ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	30 **9**	8	White octagonal concrete tower; 26.	Visible 322°-270°.
	PELJESKI KANAL:						
13832 *E 3470*	-Otocic Kneza Vela, NE. side.	42° 58.9´ N 17° 03.2´ E	**Fl.(2)W.** period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	43 **13**	8	Stone tower; 20.	
13834 *E 3470.5*	-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 *E 3471*	-Rt Sv. Ivan.	42° 59.1´ N 17° 04.2´ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	39 **12**	4	Green tower, column, gallery; 16.	
13840 *E 3476*	-Luka Korcula, mole, head.	42° 57.8´ N 17° 08.2´ E	**Fl.R.** period 2s fl. 0.3s, ec. 1.7s	23 **7**	4	Red square tower, column, gallery; 23.	
13844 *E 3477*	-Wharf, NE. corner, E. of harbor.	42° 57.6´ N 17° 08.2´ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	23 **7**	2	Green tower, column, gallery; 16.	
13848 *E 3478*	-Badija.	42° 57.3´ N 17° 09.1´ E	**Fl.(2)G.** period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	23 **7**	4	Green tower, pedestal; 16.	
13852 *E 3479*	-Korcula.	42° 57.2´ N 17° 09.0´ E	**Fl.(2)R.** period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	23 **7**	3	Red tower; 16.	
13856 *E 3480*	-Luka Orebic, mole, head.	42° 58.3´ N 17° 10.5´ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	25 **8**	3	Green square tower, column, gallery; 23.	
13860 *E 3481*	-Otocic Stupe Velike, W. head.	42° 57.8´ N 17° 11.2´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	29 **9**	3	Red tower, column, gallery; 16.	Visible 085°-261°.
13864 *E 3482*	-Otocici Sestrice, NW. islet.	42° 57.7´ N 17° 12.5´ 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	Square stone tower, dwelling; 43.	**AIS** (MMSI No 992381290).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CROATIA				
	LASTOVSKI KANAL:						
13872 *E 3486*	-Rt Rasnjic, Otok Korcula, SE. point.	42° 55.0´ N 17° 12.1´ E	**Fl.W.** period 6s fl. 1s, ec. 5s	43 **13**	9	White square tower; 26.	
13876 *E 3463*	-Rt Veli Zaglav.	42° 53.8´ N 16° 50.9´ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	43 **13**	7	White tower, column, gallery; 16.	
13878 *E 3464*	-Brna.	42° 54.3´ N 16° 51.5´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	23 **7**	3	Red tower, column, gallery; 16.	Visible 224°-025°.
	ZALIV VELA LUKA:						
13884 *E 3461*	-Rt Velo Dance, Otok Korcula, SW. point.	42° 55.6´ N 16° 38.3´ 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	Stone tower; 26.	
13888 *E 3454*	-Otocic Kamenjak, S. side.	42° 58.2´ N 16° 39.5´ E	**Fl.(2)R.** period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	32 **10**	4	Stone tower; 20.	Visible 233°-163°.
13892 *E 3458*	-Rt Vranac.	42° 57.7´ N 16° 42.4´ E	**Fl.R.** period 2s fl. 0.3s, ec. 1.7s	24 **7**	2	Stone pyramidal tower, red gallery; 20.	Visible 011°-101°.
13896 *E 3460*	-Vela Luka, pier, W. head.	42° 57.7´ N 16° 42.9´ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	21 **6**	2	Green tower, column, gallery; 16.	
13900 *E 3452*	-Otocic Proizd, island, off W. head.	42° 59.0´ N 16° 36.4´ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	38 **12**	11	Stone tower; 26.	Visible 290°-229°. **AIS** (MMSI No 992381280).
13904 *E 3538*	**Otok Susac.**	42° 45.0´ N 16° 29.4´ E	**Fl.(2)W.** period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 12s	308 **94**	**24**	Square stone tower, dwelling; 56.	Visible 253°-213°. Reserve light range 12M. **AIS** (MMSI No 992381180).
	OTOK LASTOVO:						
13908 *E 3545*	-Skrivena Luka, on Rt Strazica.	42° 43.9´ N 16° 53.0´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	26 **8**	3	Red tower, column, gallery, pedestal; 20.	
13912 *E 3544*	**-Rt Struga.**	42° 43.4´ N 16° 53.0´ E	**Fl.W.** period 10s fl. 0.6s, ec. 9.4s	344 **105**	**27**	Stone tower, dwelling; 66.	Visible 259°-095°. Reserve light range 12M.
13920 *E 3548*	-Luka Velji Lago, Otocic Prezba, SE. point.	42° 45.2´ N 16° 48.8´ E	**Fl.W.R.** period 5s fl. 0.5s, ec. 4.5s	59 **18**	W. 8 R. 5	White tower, column, gallery, pedestal; 26.	W. 067°-084°, R.235°-023°, W.-045°.
13932 *E 3546*	-Ubli (Sv. Petar), port, SE. extremity.	42° 44.7´ N 16° 49.5´ E	**Fl.R.** period 2s fl. 0.3s, ec. 1.7s	26 **8**	2	Red tower, column, gallery; 16.	
13936 *E 3552*	-Hrid Pod Mrcaru, islet, center.	42° 46.8´ N 16° 46.5´ E	**Fl.(2)W.** period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	75 **23**	9	White tower, column, gallery, pedestal; 23.	
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, gallery; 16.	Visible 350°-243°.
13940 *E 3551*	Otocic Tajan Velji.	42° 49.0´ N 16° 59.4´ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	66 **20**	8	Square stone tower; 23.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CROATIA				
13944 *E 3554*	**Otocic Glavat.**	42° 45.9´ N 17° 08.8´ 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**	Stone tower, dwelling; 62.	Visible 120°-070°. Reserve light range 12M. **AIS** (MMSI No 992381070).
	MLJETSKI KANAL:						
	-Otok Mljet:						
13947 *E 3535.5*	--Rt Goli.	42° 47.7´ N 17° 19.9´ 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, 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° 26.1´ E	**Fl.W.** period 2s fl. 0.3s, ec. 1.7s	36 **11**	6	White tower, pedestal; 16.	
13952 *E 3537*	--Luka Sovra, Rt Pusti.	42° 44.7´ N 17° 36.6´ 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.
13956 *E 3537.4*	--Luka Okuklje, Rt Stoba.	42° 43.8´ N 17° 40.8´ E	**Fl.(2)W.** period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	32 **10**	6	White tower, column, gallery, pedestal; 16.	
13960 *E 3537.5*	---Point of land in harbor.	42° 43.6´ N 17° 40.3´ E	**Fl.G.** period 2s fl. 0.3s, ec. 1.7s	24 **7**	1	Green tower, column, gallery; 16.	
13964 *E 3537.6*	---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 *E 3556*	--Trstenik, mole, head.	42° 54.9´ N 17° 24.1´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	20 **6**	3	Red tower, column, gallery; 16.	
13975 *E 3558*	--Zuljana, mole, head.	42° 53.4´ N 17° 27.2´ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	20 **6**	4	Green tower, column, gallery; 16.	Visible 078°-015°.
13980 *E 3560*	-Otocic Lirica.	42° 52.4´ N 17° 25.6´ E	**L.Fl.W.** period 10s fl. 2s, ec. 8s	112 **34**	9	White tower, pedestal; 45.	Visible 293°-210°.
13982 *E 3560.5*	-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, gallery; 20.	
	KOLOCEPSKI KANAL:						
13984 *E 3561*	-Otocic Olipa.	42° 45.5´ N 17° 46.6´ 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 *E 3562*	-Otocic Tajan, island, NW. extremity.	42° 45.5´ N 17° 47.8´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	30 **9**	4	Red tower, column, gallery; 16.	Visible 061°-268°.
13990 *E 3564*	-Rt. Grbljava (Pologrin).	42° 47.2´ N 17° 46.9´ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	36 **11**	7	White tower, column, gallery, pedestal; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CROATIA				
	-Stonski Kanal:						
13992 *E 3566*	--Broce, mole, head.	42° 49.3´ N 17° 43.0´ 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 *E 3570*	--Ston, mole, head.	42° 50.0´ N 17° 41.8´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	20 **6**	2	Red tower; 16.	
	MLJETSKI KANAL:						
14000 *E 3575*	-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, gallery; 16.	
14004 *E 3580*	-Slano, on Rt Donji.	42° 46.5´ N 17° 52.3´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	52 **16**	4	Stone tower, column, gallery, dwelling; 13.	
14008 *E 3582*	--On quay.	42° 47.1´ N 17° 53.3´ E	**Fl.G.** period 5s fl. 0.5s, ec. 4.5s	23 **7**	3	Green tower, column, gallery; 16.	
14012 *E 3584*	-Trsteno.	42° 42.7´ N 17° 58.1´ 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, gallery, pedestal; 20.	
	-Otok Sipan:						
14016 *E 3576*	--Rt Tiha.	42° 45.3´ N 17° 51.1´ E	**Fl.(2)W.** period 8s fl. 0.5s, ec. 2s fl. 0.5s, ec. 5s	46 **14**	9	Metal pyramidal framework structure, white tower, gallery, pedestal; 36.	Visible 117°-305°.
14020 *E 3578*	--Luka, mole, head.	42° 43.7´ N 17° 51.6´ E	**Fl.R.** period 5s fl. 0.5s, ec. 4.5s	23 **7**	3	Red tower, column, gallery; 16.	
14024 *E 3590*	**-Otocic Sv. Andrija.**	42° 38.8´ N 17° 57.1´ E	**Fl.W.** period 15s fl. 0.8s, ec. 14.2s	226 **69**	**24**	Square stone tower, dwelling; 56.	Reserve light range 12M. **AIS** (MMSI No 992381160).
14028 *E 3592*	-Otok Lopud, mole, head.	42° 41.4´ N 17° 56.5´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	23 **7**	3	Red tower, column, gallery; 16.	
14030 *E 3579*	-Sudurad, S. mole, head.	42° 42.6´ N 17° 54.7´ 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, gallery; 16.	R. 235°-275°, W.-235°.
14031 *E 3595.5*	-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, gallery; 23.	Visible 262°-142°.
14032 *E 3595*	-Otok Kalocep, on Rt Gornji.	42° 39.7´ N 18° 01.2´ E	**Fl.(2)W.** period 8s fl. 0.5s, ec. 2s fl. 0.5s, ec. 5s	59 **18**	4	Conical stone tower, gallery; 20.	
14036 *E 3596*	-Vuka Zaton, on Rt Bat.	42° 41.1´ N 18° 02.7´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	62 **19**	4	Red tower, column, gallery; 20.	
14040 *E 3598*	Hridi Grebeni, W. rock.	42° 39.1´ N 18° 02.9´ 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 stone tower, dwelling; 43.	**AIS** (MMSI No 992381370).
14042 *E 3599*	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 *E 3600*	Otocic Daska, N. head.	42° 40.2´ N 18° 03.4´ E	**Fl.W.** period 6s fl. 0.5s, ec. 5.5s	23 **7**	10	White tower, gallery, pedestal; 13.	Visible 023°-295°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CROATIA				
14048 *E 3604*	Rijeka Dubrovacka, at Mokosica.	42° 40.3´ N 18° 05.6´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	20 **6**	4	Red square tower, red column, base; 20.	
14050 *E 3601*	-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, gallery; 16.	
14050.5 *E 3601.7*	--Center.	42° 40.1´ N 18° 04.8´ E	**Iso.W.** period 2s	164 **50**	5	Green construction.	
14051 *E 3601.5*	--S. head.	42° 40.0´ N 18° 04.9´ E	**Fl.(2)G.** period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	23 **7**	4	Green tower, column, gallery; 20.	
14052 *E 3602*	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, gallery; 16.	Visible 325°-247°.
14056 *E 3602.1*	-Gat Petka.	42° 39.5´ N 18° 05.1´ E	**Fl.(2)R.** period 4s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2s	25 **8**	3	Red square tower, column, gallery; 23.	
14060 *E 3610*	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, gallery; 23.	
	KOLOCEPSKI KANAL:						
14068 *E 3613*	-Srebreno, breakwater.	42° 37.2´ N 18° 11.9´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	20 **6**	2	Red tower, column, gallery; 16.	
14076 *E 3613.7*	-Zupski Zaliv, Plat, on pier, head.	42° 36.0´ N 18° 13.7´ E	**F.G.**	23 **7**	4	Green tower, column, gallery; 16.	
14084 *E 3614.5*	-About 366 meters S. of extremity of Rt Sveti Roko.	42° 35.2´ N 18° 12.3´ 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° 35.1´ N 18° 12.7´ E	**Fl.W.R.G.** period 2s fl. 0.3s, ec. 1.7s	33 **10**	W. 6 R. 4 G. 3	White tower, column, gallery; 16.	W. 053°-083°, R.-110°, W.-129°, G.-158°.
14092 *E 3616*	Luka Mali Molunat.	42° 27.0´ N 18° 26.3´ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	26 **8**	6	White tower, column, gallery; 16.	
	BOKA KOTORSKA:						
14096 *E 3615*	-Otocic Molunst.	42° 26.7´ N 18° 25.8´ 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 tower, gallery; 13.	
14100 *E 3620*	**-Ostri Rt.**	42° 23.7´ N 18° 31.9´ E	**L.Fl.(2)W.** period 10s fl. 2s, ec. 2s fl. 2s, ec. 4s	240 **73**	**15**	Red tower, house; 7.	Reserve light range 10M.
14104 *E 3622*	-Otocic Mamula.	42° 23.8´ N 18° 33.5´ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	112 **34**	6	White round tower, platform.	
14108 *E 3623*	--Luka Rose, quay, W. head.	42° 25.8´ N 18° 33.4´ E	**F.G.**	16 **5**	2	Green column; 13.	
	-Hercegnovski Zaliv:						
14112 *E 3624*	--Herceg Novi, S. mole, head.	42° 27.1´ N 18° 31.9´ E	**Q.(2)G.** period 5s	31 **9**	5	Square stone obelisk; 23.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CROATIA				
14116 *E 3628*	--Zelenika, quay, NW. corner.	42° 27.1´ N 18° 34.3´ E	**Fl.R.** period 3s fl. 1s, ec. 2s	30 **9**	4	White tower, column, gallery, pedestal; 16.	Visible 315°-135°.
14120 *E 3630*	--Pristan.	42° 25.6´ N 18° 36.1´ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	22 **7**	5	White round tower, black stripes, platform; 20.	
	-Kumborski Tjesnac:						
14124 *E 3632*	--Denovici, breakwater, head.	42° 26.0´ N 18° 36.2´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	45 **14**	6	Red metal tripod; 7.	
	-Tivatski Zaliv:						
14128 *E 3648*	--Donji Krasici, on mole.	42° 24.6´ N 18° 39.2´ E	**F.G.**	16 **5**	2	White column; 16.	
14132 *E 3647*	--Bejelila (Oko), pier, NW. corner.	42° 24.5´ N 18° 40.0´ E	**Fl.G.** period 2s fl. 0.3s, ec. 1.7s	19 **6**	2	White tower, black bands; 16.	Visible 245°-216°, obscured over Plicina Tunja.
14136 *E 3646*	-Zucovac, quay, S. corner.	42° 24.3´ N 18° 41.2´ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	23 **7**	2	Green tower, column; 16.	
14140 *E 3645*	--Plicina Tunja (Jezicac).	42° 25.0´ N 18° 40.7´ E	**Fl.(2)W.R.** period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	26 **8**	W. 6 R. 4	Pyramidal stone tower; 23.	W. 014°-274°, W.-014°.
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, platform; 16.	
14144 *E 3644*	-Luka Kaliman.	42° 25.6´ N 18° 42.0´ E	**F.R.**	20 **6**	4	Red column; 16.	
14152 *E 3643*	--Stanicic, mole.	42° 25.8´ N 18° 41.7´ 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° 26.4´ N 18° 41.1´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	23 **7**	5	White tower, red stripes, pedestal; 20.	
	-Tjesnac Verige:						
14164 *E 3652*	--Rt Sveti Nedlja.	42° 27.7´ N 18° 40.6´ E	**Fl.R.** period 2s fl. 0.3s, ec. 1.7s	24 **7**	5	White round tower, red stripes, gallery; 23.	
14168 *E 3654*	--Rt Opatovo.	42° 27.7´ N 18° 40.9´ 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° 40.5´ E	**F.R.**	19 **6**	4	Red column; 13.	
14180 *E 3658*	--Rt Turski.	42° 28.8´ N 18° 41.2´ E	**Fl.(2)W.** period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	28 **9**	6	White conical tower, gallery.	
	-Tivatski Zaliv:						
14184 *E 3660*	--Rt Gospa.	42° 28.7´ N 18° 41.4´ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	33 **10**	4	White round tower, black stripes.	
	-Risanski (Morinjski) Zaliv:						
14188 *E 3661*	--Kostanjica, breakwater, head.	42° 29.3´ N 18° 39.9´ E	**F.R.**	13 **4**	3	White metal pyramidal framework tower; 13.	Private light.
14192 *E 3662*	--Morinj.	42° 29.5´ N 18° 39.0´ E	**F.G.**	13 **4**	4	Green column; 10.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CROATIA				
14196 *E 3664*	--Perast, on quay.	42° 29.2´ N 18° 41.9´ E	**Q.(3)R.** period 7s	20 **6**	3	White round tower, red diagonal stripe; 16.	Visible 304°-124°.
14200 *E 3663*	--Risan, mole, head.	42° 30.9´ N 18° 41.6´ E	**Fl.(3)G.** period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2.5s	22 **7**	2	White round tower, column, gallery; 16.	
	-Kotorski Zaliv:						
14204 *E 3666*	--Donji Stoliv, mole, head.	42° 28.4´ N 18° 42.7´ E	**F.G.**	16 **5**	2	White column; 13.	
14212 *E 3674*	--Quay, N.	42° 27.3´ N 18° 44.9´ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	20 **6**	3	White round tower, black bands, platform; 13.	
14216 *E 3676*	---Rt Rdakova.	42° 27.0´ N 18° 45.3´ E	**Fl.G.** period 5s fl. 0.5s, ec. 4.5s	26 **8**	6	White square tower, column, gallery; 23.	
14220 *E 3678*	--Muo, mole, head.	42° 26.2´ N 18° 45.5´ E	**Q.(2)G.** period 5s	16 **5**	5	White round tower, platform; 13.	
14224 *E 3682*	--Kotor.	42° 25.7´ N 18° 46.0´ E	**Fl.R.** period 3s fl. 1s, ec. 2s	26 **8**	5	Stone obelisk; 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 *E 3684*	Zaliv Traste, Rt Traste.	42° 21.5′ N 18° 41.3′ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	30 **9**	5	White round tower, gallery, pedestal; 20.	Visible 010°-278°.
14240 *E 3685*	Rt Platamon.	42° 16.1′ N 18° 46.7′ E	**Fl.W.** period 6s fl. 1s, ec. 5s	105 **32**	9	Stone tower, column, gallery; 33.	
14244 *E 3686*	Otocic Sveti Nikola, SE. point.	42° 15.6′ N 18° 51.5′ 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 tower, dwelling; 10.	Visible 248°-113°.
14248 *E 3688*	Budva, mole, head.	42° 16.8′ N 18° 50.4′ E	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s	21 **6**	3	Red tower, column, gallery; 16.	Visible 090°-270°.
14251 *E 3688.5*	Katici.	42° 11.7′ N 18° 56.2′ E	**Fl.R.** period 4s fl. 0.5s, ec. 3.5s	82 **25**	6	White round tower, concrete base; 16.	
	BARSKO SIDRISTA:						
14256 *E 3689*	**-Crni Rt.**	42° 08.1′ N 19° 00.7′ E	**Fl.W.** period 4s fl. 1s, ec. 3s	466 **142**	**25**	White round tower, concrete base; 13.	
14260 *E 3690*	**-Rt Volovica.**	42° 05.3′ N 19° 04.2′ E	**Fl.(2)W.** period 10s	98 **30**	**16**	White hexagonal tower, black stripes; 20.	Reserve light range 16M.
14268 *E 3691*	--W. breakwater, head.	42° 05.9′ N 19° 04.7′ E	**Fl.G.** period 3s fl. 1s, ec. 2s	62 **19**	6	White round tower, gallery; 43.	
14269 *E 3693*	--Mole, N. head.	42° 05.8′ N 19° 04.9′ E	**Fl.(2)R.** period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	20 **6**	3	White round tower, red band, platform; 16.	
14272 *E 3696*	**Rt Mendre.**	41° 57.2′ N 19° 09.0′ E	**Fl.(3)W.** period 10s	115 **35**	**22**	White tower, house; 26.	
14276 *E 3698*	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 square tower; 13.	
			ALBANIA				
	SHENGJIN:						
14280 *E 3702*	-Kep i Shengjinit.	41° 48.6′ N 19° 35.1′ E	**Fl.R.** period 5s fl. 0.5s, ec. 4.5s	79 **24**	10	Square black tower.	
14282 *E 3702.5*	-Mali Renzit.	41° 49.2′ N 19° 34.0′ E	**Fl.W.** period 5s fl. 1s, ec. 4s	151 **46**	10	Building, pole; 52.	
14284 *E 3703*	-Entrance Range, front, center of jetty.	41° 48.9′ N 19° 35.3′ E	**Fl.R.** period 6s fl. 0.5s, ec. 5.5s		5	White square column, white rectangular daymark, black stripes; 39.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			ALBANIA				
14288 *E 3703.1*	--Rear, 75 meters 002° from front, base of jetty.	41° 48.9′ N 19° 35.3′ E	**Fl.R.** period 5s fl. 0.8s, ec. 4.2s	49 **15**	5	White square column, white rectangular daymark, black stripes; 39.	
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° 35.3′ N 19° 26.9′ E	**Fl.(2)W.** period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	131 **40**	8	White framework bunker.	
14300 *E 3708*	Kep i Palit.	41° 24.8′ N 19° 23.6′ E	**Fl.W.** period 10s fl. 1s, ec. 9s	105 **32**	10	Square tower; 46.	
	DURRES:						
14304 *E 3711*	-Kepi i Durresit.	41° 18.9′ N 19° 26.1′ E	**Fl.(2)+L.Fl.W.** period 12s	413 **126**	11	White octagonal tower; 46.	
14310 *E 3714.1*	-E.	41° 18.8′ N 19° 28.0′ E	**Dir.W.R.G.** period 2s	23 **7**	W. 7 R. 5 G. 5	White post.	Iso.G.015°-016°30′, Iso.W.-017°30′, Iso.R.-019°.
14312 *E 3712*	-S. mole, head.	41° 18.1′ 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° 38.8′ N 19° 18.9′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	39 **12**	7	Square support, white bands; 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, building; 39.	Visible 065°-318°.
14332 *E 3725*	-Shen Nokole, N. mole.	40° 30.2′ N 19° 17.1′ E	**Fl.G.** period 4s fl. 1s, ec. 3s	26 **8**	3	Green tower; 20.	
14336 *E 3726*	--S. mole.	40° 30.1′ N 19° 17.1′ E	**Fl.R.** period 4s fl. 1s, ec. 3s	26 **8**	3	Red tower; 20.	
14337 *E 3726.5*	-Kepi I Jugor.	40° 28.5′ N 19° 17.2′ E	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s	59 **18**	3	Tower; 33.	
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, bunker.	
	GJI I VLORES:						
14340 *E 3728*	-Kep i Gallovecit, entrance, S. side.	40° 26.3′ N 19° 19.2′ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	59 **18**	3	Framework structure; 20.	Visible 095°-290°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			ALBANIA				
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 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, red gallery; 20.	
14347 *E 3727.7*	-E. Breakwater.	40° 28.9´ N 19° 26.0´ E	**Fl.(2)G.** period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	26 **8**	7	Tower, green gallery; 20.	
14348 *E 3729*	-Vlore, mole, head.	40° 26.9´ N 19° 29.1´ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	26 **8**	5	Tower; 20.	
14350 *E 3729.1*	-W. mole.	40° 27.0´ N 19° 28.8´ E	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s	33 **10**	5	Tower; 20.	
14351 *E 3729.5*	-Kepi i Kalase.	40° 24.9´ N 19° 28.9´ E	**L.Fl.W.** period 10s fl. 2s, ec. 8s	144 **44**	11	Tower; 26.	
14352 *E 3732*	-Shen Vasilit.	40° 22.6´ N 19° 24.3´ 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 Kep 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	Tower; 26.	
14364 *E 3733*	Grames.	40° 13.0´ N 19° 28.5´ E	**Fl.W.** period 6s fl. 1s, ec. 5s	171 **52**	8		
	PORT' E PALERMOS:						
14368 *E 3734*	-Kep i Palermos.	40° 02.9´ N 19° 47.8´ E	**Fl.W.** period 8s fl. 0.5s, ec. 7.5s	371 **113**	8	White octagonal 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*	Kep i Qefalit.	39° 54.5´ N 19° 54.8´ E	**Fl.(2)W.** period 15s fl. 1s, ec. 2s fl. 1s, ec. 11s	482 **147**	12	Post, building; 10.	
14374 *E 3742.5*	-SE. side.	39° 50.7´ N 20° 01.3´ 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	Framework structure, cylindrical base; 20.	
			GREECE-WEST COAST-IONIOI NISOI (IONIAN ISLANDS)				
14380 *N 3747*	**Nisos Othonoi.**	39° 51.8´ N 19° 25.7´ E	**Fl.W.** period 10s fl. 0.7s, ec. 9.3s	338 **103**	**18**	Round tower, dwelling; 33.	
14384 *N 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.	

(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)				
14385 *N 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 structure, gallery, metal column, red band.	
14388 *N 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 structure; 13.	
	KERKIRA (CORFU):						
14390 *N 3749*	-Cape Aikaterini.	39° 49.2´ N 19° 50.9´ E	**Fl.W.** period 10s fl. 1s, ec. 9s	46 **14**	6	Metal framework structure; 15.	
14392 *N 3750*	--Nisis Peristerai.	39° 47.5´ N 19° 57.6´ E	**Fl.R.** period 5s fl. 0.4s, ec. 4.6s	75 **23**	8	Round tower, dwelling; 30.	**Radar reflector.**
	-North Channel:						
14396 *N 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 structure, green band; 16.	
14398 *N 3754.5*	--Serpa Bank, E. head.	39° 46.2´ N 19° 57.6´ E	**Q.(3)W.** period 10s	39 **12**	7	E. CARDINAL BYB, beacon, topmark; 33.	
14400 *N 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 pyramidal structure, metal framework structure, green band; 26.	
14414 *N 3755*	-Ormos Gouvion.	39° 39.0´ N 19° 51.0´ E	**2 F.R.** (vert.)	20 **6**	3	Red metal column; 16.	1 meter apart. Private light.
14416 *N 3760*	--Breakwater, W. head.	39° 37.7´ N 19° 54.7´ E	**Q.R.**	30 **9**	3	White hexagonal hut, column, red band; 26.	
14428 *N 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 structure, red band; 13.	
14430 *N 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, dwelling; 26.	
14432 *N 3773*	-Akra Anemomilos.	39° 36.7´ 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	White hexagonal hut, gallery, column, red band; 23.	
14436 *N 3776*	-Akra Levkimnis.	39° 27.6´ N 20° 04.3´ E	**Fl.W.** period 6s fl. 0.5s, ec. 5.5s	26 **8**	7	Metal framework structure; 16.	
14440 *N 3778*	-Port Levkimnis, river, S. side, pier.	39° 26.2´ N 20° 05.2´ E	**Fl.R.** period 2s fl. 0.2s, ec. 1.8s	26 **8**	3	White metal framework structure, red band; 13.	
	-West coast:						
14444 *N 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 structure; 7.	
14448 *N 3780*	--Akra Kosteri.	39° 40.3´ N 19° 42.8´ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	79 **24**	5	Metal framework structure; 13.	
14449 *N 3781*	---Palaiokastritsas, pier, head.	39° 40.4´ N 19° 42.6´ E	**F.R.**	23 **7**	3	Metal column, red band; 20.	
14452 *N 3781.5*	--Akra Arilla.	39° 42.6´ N 19° 39.4´ E	**L.Fl.W.** period 7.5s fl. 2s, ec. 5.5s	95 **29**	4	Metal framework structure; 13.	

(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)				
14456 *N 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 pyramidal framework structure; 23.	
14460 *N 3783*	Nisis Prasoudhi.	39° 30.5´ 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 metal structure; 10.	
14464 *N 3784*	Ormos Igoumenitsis, on Akra Kondramourt.	39° 29.8´ N 20° 13.7´ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	36 **11**	5	White pyramidal metal framework structure, hut; 20.	
14468 *N 3784.2*	-Pier, head.	39° 30.0´ N 20° 15.6´ E	**2 F.R.** (vert.)	30 **9**	5	White metal column; 23.	1 meter apart.
14472 *N 3785*	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	Metal framework structure, white round hut, red band; 13.	
14476 *N 3786*	Nisis Mavro Oros.	39° 24.3´ 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	Round tower, dwelling; 46.	
14480 *N 3788*	Ormos Pargas.	39° 17.0´ N 20° 23.9´ E	**Fl.(2)W.** period 6s fl. 0.3s, ec. 1.4s fl. 0.3s, ec. 4s	82 **25**	6	White pyramidal metal structure, framework structure; 23.	
14484 *N 3792*	**-Lakka.**	39° 14.0´ 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 tower, dwelling; 30.	
	NISOS PAXOI:						
14488 *N 3794*	-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°.
14489 *N 3794.7*	--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 structure, gallery, green band; 20.	
14490 *N 3795.6*	--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 structure, gallery, red band; 20.	
14491 *N 3795*	--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 structure, gallery, green band; 20.	
14491.5 *N 3795.7*	--N. entrance, on quay.	39° 12.0´ N 20° 11.3´ E	**F.G.**	23 **7**	3	White metal column, green band; 20.	
14492 *N 3794.5*	--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 *N 3791.2*	-Longos, breakwater, head.	39° 13.8´ N 20° 09.9´ E	**Fl.G.** period 2s fl. 0.3s, ec. 1.7s	23 **7**	3	Metal framework structure, white round hut, green band.	
14496 *N 3796*	**Nisis Andipaxoi,** Akra Ovorou (Novarra).	39° 08.4´ N 20° 14.9´ E	**Fl.W.R.** period 5s fl. 0.3s, ec. 4.7s	135 **41**	W. **20** R. **15**	Square tower, dwelling; 36.	W. 136°-167°, R.-185°, W.-307°, R.-037°, W.-060°. Reserve light F.W.R.
14500 *N 3800*	Ormos Nikopoleos, Akra Mitikas.	39° 00.0´ N 20° 41.9´ E	**Fl.W.R.** period 3s fl. 0.5s, ec. 2.5s	39 **12**	W. 7 R. 5	Metal framework structure, white square hut, pedestal; 26.	W. 347°-078°, R.-135°, W.-147°.
	STENON PREVEZIS:						
14504 *N 3804*	-Entrance Range, near Fort Aktion, front.	38° 56.7´ N 20° 45.7´ E	**Q.Y.**	16 **5**	7	House, yellow triangular daymark point up.	

(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)						
14508 *N 3804.1*	- -Rear, about 740 meters 066° from front.	38° 56.8´ N 20° 46.0´ E	**L.Fl.Y.** period 6s fl. 2.5s, ec. 3.5s	31 **9**	7	Metal framework structure, white square hut, yellow triangular daymark point down; 16.	
14512 *N 3806*	-Akra Akra.	38° 57.5´ N 20° 45.9´ E	**L.Fl.W.** period 7.5s fl. 2s, ec. 5.5s	13 **4**	5	White lantern; 13.	
14518 *N 3809*	-Limin Preveza, W. mole, head.	38° 57.6´ N 20° 45.4´ E	**Fl.R.** period 2s fl. 0.3s, ec. 1.7s	23 **7**	3	Metal framework structure, gallery, red band.	
14520 *N 3808*	- -E. mole, head.	38° 57.5´ N 20° 45.5´ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	20 **6**	4	Metal framework structure, white round hut, green band; 16.	
14522 *N 3810*	-Agios Thomas.	38° 57.8´ N 20° 48.0´ E	**Fl.R.** period 2s fl. 0.3s, ec. 1.7s	23 **7**	3	Metal framework structure, gallery, metal column, red band; 19.	
	AMVRAKIKOS KOLPOS:						
14524 *N 3811*	-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 structure, white square hut, red band; 16.	
14532 *N 3824*	-Ormos Salaoras, mole, head.	39° 01.9´ N 20° 52.3´ E	**Fl.G.** period 8s fl. 0.8s, ec. 7.2s	19 **6**	5	White round hut, column, green band; 13.	
14536 *N 3820*	-Akra Koprainis.	39° 01.8´ N 21° 04.5´ E	**Fl.(2)W.R.** period 16s fl. 1s, ec. 2s fl. 1s, ec. 12s	29 **9**	W. 5 R. 3	Round tower, dwelling; 30.	W. 169°-349°, R.-169°. Reserve light F.W.R.
14540 *N 3817*	-Ormos Ampilokhias, Ayios Yeoryios, on point.	38° 53.6´ N 21° 09.0´ E	**Fl.G.** period 3s fl. 0.4s, ec. 2.6s	20 **6**	4	White metal framework structure, green band; 16.	
14542 *N 3818*	Amfilochia.	38° 52.1´ N 21° 09.8´ E	**Fl.G.** period 2s fl. 0.3s, ec. 1.7s	16 **5**	3	Metal framework structure, gallery, metal column, green band; 13.	
14544 *N 3816*	-Akra Khondri Miti.	38° 54.8´ N 21° 06.8´ E	**Fl.W.** period 5s fl. 1s, ec. 4s	36 **11**	4	Metal framework structure, white square hut; 16.	
14548 *N 3814*	-Vonitsa, jetty, head.	38° 55.3´ N 20° 53.3´ E	**Fl.G.** period 1.5s fl. 0.3s, ec. 1.2s	23 **7**	4	White round hut, column, green band; 16.	
14556 *N 3812*	-Akra Panayia.	38° 57.4´ N 20° 51.8´ E	**L.Fl.G.** period 7.5s fl. 2.5s, ec. 5s	19 **6**	3	White lantern, green band; 15.	
	NISOS LEVKAS:						
14560 *N 3832*	-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. 8 R. 5	Square tower, dwelling; 20.	R. 075°-120°, W.-255°.
14568 *N 3835*	-Nisis Sesoula.	38° 41.7´ N 20° 32.3´ E	**Fl.W.** period 4.5s fl. 0.5s, ec. 4s	121 **37**	8	Column, white round hut; 13.	
14572 *N 3836*	**-Akra Dhoukaton.**	38° 33.8´ N 20° 32.6´ E	**Fl.W.** period 10s fl. 0.2s, ec. 9.8s	229 **70**	**20**	Round tower, dwelling; 49.	
14576	-Ormos Vasilikis, pier, head.	38° 37.7´ N 20° 36.4´ E	**F.G.**	16 **5**	3	White metal column; 13.	
14580 *N 3840*	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	White round hut, column; 13.	R. 070°-165°, W.-019°.

(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)						
14581 *N 3939.5*	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 structure, gallery, metal column, green band; 16.	
14584 *N 3842*	-Nisis Volios, Ormos Dhrepanov, NE. side.	38° 47.8´ N 20° 43.7´ E	**Fl.W.R.** period 1.5s fl. 0.3s, ec. 1.2s	26 **8**	W. 5 R. 3	Dwelling; 13.	R. 293°-335°, W.-181°.
14588 *N 3844*	--Akra Kefali.	38° 45.5´ N 20° 45.9´ E	**Fl.W.** period 4s fl. 0.4s, ec. 3.6s	36 **11**	5	Metal framework structure; 13.	
14592 *N 3850*	Palairos (Zaverdha), mole, head.	38° 46.9´ N 20° 52.6´ E	**Fl.G.** period 1.5s fl. 0.3s, ec. 1.2s	23 **7**	3	Metal framework structure, white round hut, green band; 19.	
14596 *N 3852*	Akra Kamilafka.	38° 40.3´ N 20° 55.2´ 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 structure, white square hut; 20.	
14600 *N 3853*	Akra Mitika.	38° 40.0´ N 20° 56.7´ E	**Fl.W.** period 1.5s fl. 0.3s, ec. 1.2s	20 **6**	4	Metal framework structure, white round hut; 18.	Visible 278°-149°.
14604 *N 3854*	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 structure, white square hut; 20.	
14608 *N 3855*	-Limeniskos Kalamos.	38° 37.3´ N 20° 55.9´ E	**Fl.R.** period 3s fl. 0.4s, ec. 2.6s	23 **7**	3	Metal framework structure, white square hut, red band; 20.	
14609 *N 3853.5*	-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 structure, gallery, metal column, red band; 20.	
14610 *N 3857*	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 structure, gallery, metal column, green band; 20.	
14611 *N 3856*	-E. side.	38° 34.1´ N 20° 54.7´ E	**Fl.R.** period 4s fl. 1s, ec. 3s	20 **6**	5	Metal framework structure, gallery, metal column, red band.	
14612 *N 3846*	Nisis Formikoula.	38° 33.9´ N 20° 51.2´ E	**Fl.W.R.** period 3s fl. 0.5s, ec. 2.5s	56 **17**	W. 8 R. 5	Dwelling, white lantern; 13.	W. 180°-000°, R.-180°.
14614 *N 3848*	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 structure, gallery, metal column; 20.	
14616 *N 3896*	Nisis Kaloyeros, NE. peak.	38° 29.6´ N 21° 01.9´ E	**Fl.W.** period 4s fl. 0.4s, ec. 3.6s	102 **31**	8	White lantern; 13.	
14620 *N 3898*	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 framework structure, red band; 18.	
14624 *N 3900*	Ormos Platiyiali, Akra Karloglossa.	38° 28.4´ N 21° 05.0´ E	**Q.R.**	26 **8**	3	Metal framework structure, red band; 16.	
14625 *N 3901*	-Platygiali Bay, N. entrance.	38° 28.5´ N 21° 05.5´ E	**Fl.R.** period 2s fl. 0.3s, ec. 1.7s	26 **8**	3	Metal framework structure, gallery, metal column, red band; 23.	
14626 *N 3901.2*	--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 structure, gallery, metal column, green band; 16.	
14627 *N 3901.5*	Nisidha Provati.	38° 27.3´ N 21° 02.6´ E	**Fl.W.** period 5s fl. 0.4s, ec. 4.6s	33 **10**	6	White metal framework structure, gallery, metal column.	
14628 *N 3902*	Nisis Pondikos.	38° 27.6´ N 21° 03.6´ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	26 **8**	3	Metal framework structure, gallery, metal column, green band.	

(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)				
14630 *N 3903*	Vrakhos Navalion.	38° 26.6´ 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 *N 3904*	Nisis Petalas, Akra Aspro.	38° 23.6´ N 21° 06.0´ E	**Fl.W.** period 2s fl. 0.3s, ec. 1.7s	39 **12**	4	White round hut, column; 19.	
14634 *N 3905*	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 structure, gallery, metal column; 20.	
14636 *N 3906*	Nisis Makropoula (Kouneli).	38° 21.1´ N 21° 03.3´ E	**Fl.W.** period 8s fl. 1s, ec. 7s	92 **28**	6	White round hut; 13.	
14640 *N 3908*	**Akra Oxia.**	38° 17.0´ 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, dwelling; 26.	
	NISOS ITHAKI:						
14644 *N 3866*	-Akra Pisaetou.	38° 21.8´ N 20° 40.0´ E	**Fl.W.** period 5s fl. 0.3s, ec. 4.7s	62 **19**	6	White lantern; 10.	
14648 *N 3858*	-Akra Ayiou Nikolaou.	38° 29.4´ N 20° 40.7´ 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	Metal framework structure; 20.	
14652 *N 3859*	-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 structure; 20.	
14654 *N 3859.5*	-Ormos Kioni, mole, head.	38° 27.0´ N 20° 41.6´ E	**F.G.**	26 **8**	3	Green metal column.	
14656 *N 3860*	-Limin Vathi.	38° 23.0´ N 20° 42.2´ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	66 **20**	5	Round hut; 13.	
14660 *N 3861*	--Skartsoumbonisi.	38° 22.6´ N 20° 42.0´ E	**Fl.G.** period 4s fl. 0.3s, ec. 3.7s	26 **8**	3	Metal framework structure; 16.	
14664 *N 3862*	--Nisis Loimokathartirion.	38° 22.2´ N 20° 42.8´ E	**Q.G.**	26 **8**	2	White hexagonal hut, column, green band; 26.	
14668 *N 3864*	-Akra Ayiou Ioannou.	38° 19.2´ N 20° 45.9´ E	**Fl.W.** period 10s fl. 1s, ec. 9s	33 **10**	10	Metal framework structure; 16.	
	NISOS KEFALLINIA:						
14672 *N 3876*	-Akra Fiskardhon.	38° 27.8´ N 20° 34.9´ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	92 **28**	7	Square tower, dwelling; 46.	Obscured by shore on bearings E. of 155°.
14676 *N 3874*	-Ormos Ayios Evfemias, mole, head.	38° 18.2´ N 20° 36.1´ E	**Q.G.**	20 **6**	3	Metal framework structure, gallery, green band; 18.	
14680 *N 3872*	-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 structure, gallery, metal column, red band; 20.	
14684 *N 3870*	-Akra Dhik Halia.	38° 16.9´ N 20° 40.5´ E	**Fl.(2)R.** period 8s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	56 **17**	5	Metal framework structure, white round hut, red band; 18.	
14688 *N 3869.4*	-Ormos Porou, pier, head.	38° 08.9´ N 20° 46.9´ E	**Q.G.**	23 **7**	3	Metal framework structure, white round hut, green band; 18.	

(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)				
14690 *N 3869.42*	--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 structure, gallery, metal column, red band.	
14692 *N 3869.7*	-Akra Sarakini.	38° 09.0´ N 20° 47.2´ E	**Fl.W.** period 4s fl. 0.3s, ec. 3.7s	52 **16**	5	Metal framework structure; 13.	
14696 *N 3869*	-Akra Kapri.	38° 06.4´ N 20° 48.8´ 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 structure; 13.	W. 190°-354°, R.-017°.
14700 *N 3868*	-Akra Katelios.	38° 03.7´ 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	Metal framework structure, white round hut; 19.	R. 262°-302°, W.-100°.
14704 *N 3882*	-Nisis Vardhianoi, Kolpos Argostolin, entrance.	38° 08.0´ N 20° 25.5´ E	**Fl.W.R.** period 7.5s fl. 0.7s, ec. 6.8s	36 **11**	W. 6 R. 4	Round tower; 26.	R. 200°-222°, W.-080°, R.-107°.
14708 *N 3890*	--Akra Ayious Theodhoros.	38° 11.5´ N 20° 28.1´ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	36 **11**	5	White round building, columns.	
	-Kolpos Argostoliou:						
14712 *N 3892*	--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 framework structure; 10.	
14716 *N 3884*	--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, column, red band; 22.	Visible 009°-345°. Fl.G. 1.5s marks head of N. mole.
14720 *N 3880*	**-Akra Yerogombos.**	38° 10.8´ N 20° 20.5´ E	**L.Fl.(2)W.** period 15s fl. 3s, ec. 2s fl. 3s, ec. 7s	190 **58**	**24**	Round tower; 43.	Obscured when bearing more than 151°.
	NISOS ZAKINTHOS:						
14724 *N 3984*	**-Akra Skinari.**	37° 55.9´ N 20° 42.1´ E	**Fl.W.** period 5s fl. 0.3s, ec. 4.7s	216 **66**	**20**	Round tower, dwelling; 30.	
14726 *N 3985*	-Ayios Nikolaos.	37° 54.3´ N 20° 42.8´ E	**Fl.W.** period 2s fl. 0.3s, ec. 1.7s	49 **15**	7	Metal framework structure, white round hut; 16.	
14728 *N 3986*	-Akra Krioneri.	37° 48.3´ 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 *N 3989*	-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	White hexagonal hut, gallery, column, red band; 23.	
14737 *N 3988*	--N. breakwater, head.	37° 46.9´ N 20° 54.3´ E	**Fl.G.** period 1.5s fl. 0.3s, ec. 1.2s	36 **11**	5	Square hut, gallery, column, green band; 30.	
14740 *N 3990*	**-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, dwelling; 23.	
	PATRAIKOS KOLPOS:						
14744 *N 3910*	-Akra Araxos.	38° 12.9´ N 21° 22.4´ E	**L.Fl.(2)W.** period 20s fl. 2s, ec. 6s fl. 2s, ec. 10s	23 **7**	10	Metal framework structure; 16.	

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	GREECE-WEST COAST-IONIOI NISOI (IONIAN ISLANDS)						
14750 *N 3916.5*	-Lakkopetra.	38° 10.8´ N 21° 29.5´ E	**Fl.Y.** period 3s fl. 0.3s, ec. 2.7s	20 **6**	3	Metal framework structure, gallery, yellow metal column.	
14752 *N 3918*	-Liminiskos Alikon, Kato Akhaia, pier, head.	38° 09.5´ N 21° 32.3´ E	**Fl.W.R.** period 3s fl. 0.3s, ec. 2.7s	26 **8**	W. 5 R. 3	Metal framework structure, gallery, metal column; 20.	W. 120°-269°, R.-120°.
14756 *N 3912*	**-Nisis Ayios Sostis.**	38° 19.3´ N 21° 22.5´ E	**Fl.W.R.** period 5s fl. 0.1s, ec. 4.9s	39 **12**	W. **17** R. 14	Round tower, dwelling; 37.	R. 293°-010°, W.-059°, obsc.-198°, W.-203°. Reserve light F.W. Visibility may be considerably reduced during the summer.
14761.5 *N 3928.2*	--Breakwater, S. head.	38° 15.6´ N 21° 44.2´ E	**F.R.**	16 **5**	1	Hexagonal hut, column; 13.	
14763 *N 3919*	--Breakwater, head.	38° 15.6´ N 21° 44.0´ E	**Fl.G.** period 5s fl. 1s, ec. 4s	39 **12**	8	Metal framework structure; 13.	
14763.5 *N 3919.2*	--Provlita Astingos, head.	38° 15.5´ N 21° 44.1´ E	**Fl.R.** period 5s fl. 1s, ec. 4s	23 **7**	8	White metal framework structure, red band; 20.	
14764 *N 3926*	--Molos Kalavritas, head.	38° 14.9´ N 21° 43.7´ E	**Fl.G.** period 1.5s fl. 0.3s, ec. 1.2s	23 **7**	3	Metal framework structure, green band; 16.	
14768 *N 3927*	--Ayios Andreas, mole, head.	38° 14.8´ N 21° 43.6´ E	**Fl.G.** period 6s fl. 1s, ec. 5s	26 **8**	10	Metal framework structure, gallery, metal column, green band; 26.	
14769 *N 3921.5*	--Glavkos, breakwater, N. head.	38° 14.0´ N 21° 43.0´ E	**Fl.G.** period 5s fl. 1s, ec. 4s	23 **7**	9	Metal framework structure, gallery, metal column, green band; 23.	
14769.1 *N 3921*	----S. head.	38° 13.4´ N 21° 42.7´ E	**Fl.R.** period 5s fl. 1s, ec. 4s	26 **8**	9	Metal framework structure, gallery, metal column, red band; 23.	
14776 *N 3920*	--Detached breakwater, elbow.	38° 15.3´ N 21° 44.0´ E	**Fl.G.** period 1.5s fl. 0.3s, ec. 1.2s	10 **3**	3	White metal framework structure, green band; 7.	Visible 180°-035°.
14780 *N 3936*	-Akra Ayia.	38° 16.9´ N 21° 44.8´ E	**Fl.(2)G.** period 6s fl. 0.5s, ec. 1.2s fl. 0.5s, ec. 3.8s	23 **7**	4	Metal framework structure; 13.	
14781 *N 3939.5*	-Rio, pier, head.	38° 18.0´ N 21° 46.3´ E	**2 F.G.** (vert.)	23 **7**	3	White metal column; 20.	1 meter apart. Private light.
	KORINTHIAKOS KOLPOS:						
14784 *N 3938*	-Akra Andirrion, entrance, N. side.	38° 19.6´ N 21° 45.9´ E	**Fl.(2)W.** period 10s fl. 0.8s, ec. 2.2s fl. 0.8s, ec. 6.2s	52 **16**	10	Round tower, dwelling; 30.	
14786 *N 3938.5*	-Rio-Antirrio Bridge, center.	38° 19.2´ N 21° 46.4´ E	**Iso.W.** period 4s	190 **58**	8	Circular daymark, red and white vertical stripes.	
	-RACON		**T(−)**				
14788 *N 3940*	-Akra Rion.	38° 18.8´ N 21° 46.8´ E	**Fl.W.** period 6s fl. 1s, ec. 5s	52 **16**	6	Metal framework structure, white round hut.	
14792 *N 3942*	-Navpaktos.	38° 23.5´ N 21° 49.8´ E	**Fl.G.** period 2s fl. 0.3s, ec. 1.7s	43 **13**	3	Metal column; 23.	
14796 *N 3946*	-Akra Mornos.	38° 22.2´ N 21° 52.5´ 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 structure, white square hut; 20.	

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			GREECE-WEST COAST-IONIOI NISOI (IONIAN ISLANDS)				
14798 *N 3954.2*	-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 structure, gallery, metal column, red band; 16.	
14798.5 *N 3954.22*	--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 structure, gallery, metal column, green band; 16.	
14800 *N 3952*	-Nisis Trizonia, E. side.	38° 22.1´ N 22° 04.7´ E	**Fl.W.** period 4s fl. 0.8s, ec. 3.2s	30 **9**	4	Metal framework structure; 16.	
14804 *N 3956*	**-Akra Psaromita.**	38° 19.3´ N 22° 11.0´ E	**Fl.(2)W.** period 15s fl. 0.1s, ec. 4.9s fl. 0.1s, ec. 9.9s	213 **65**	**21**	Round tower, dwelling; 30.	Visible 226°-143°.
14808 *N 3957*	-Eratini, W. pier, head.	38° 21.5´ N 22° 13.6´ E	**2 F.R.** (vert.)	23 **7**	3	Metal column, red band.	1 meter apart.
14808.5 *N 3957.5*	-Ormos Panormou, N. mole head.	38° 21.6´ N 22° 15.1´ E	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s	26 **8**	4	Metal framework structure, gallery, metal column, red band; 20.	
14812 *N 3958*	-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 structure; 16.	
14816 *N 3960*	-Ormos Galaxidhiou, Nisis Apsifia.	38° 22.7´ N 22° 24.2´ E	**Fl.W.** period 7s fl. 0.6s, ec. 6.4s	43 **13**	5	Metal framework structure, white round hut; 20.	
14820 *N 3962*	-Ormos Galaxidhiou.	38° 22.8´ N 22° 23.3´ E	**Fl.R.G.** period 1.5s fl. 0.3s, ec. 1.2s	36 **11**	3	Metal framework structure, white round hut; 20.	R. 080°-216°, G.-347°.
14822 *N 3963.2*	-Itea, pier, (T head).	38° 25.9´ N 22° 25.5´ E	**Q.R.**	23 **7**	5	Metal framework structure, gallery, metal column, red band.	
14824 *N 3963*	---Head.	38° 25.8´ N 22° 25.4´ E	**Fl.R.G.** period 3s fl. 0.4s, ec. 2.6s	29 **9**	4	White hexagonal hut, column, gallery; 26.	G. 295°-355°, R.-030°, G.-111°.
14828 *N 3964*	-Akra Makri-Nicolaos.	38° 17.0´ N 22° 32.9´ E	**Fl.W.** period 4.5s fl. 0.4s, ec. 4.1s	59 **18**	5	Metal framework structure; 10.	
14832 *N 3970*	-Ormos Andikiron, entrance, W. side.	38° 21.5´ N 22° 38.8´ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	62 **19**	4	Metal framework structure, white round hut; 20.	
14833 *N 3970.5*	--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, dwelling.	
14834 *N 3965*	-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 structure, gallery, red band; 18.	
14834.3 *N 3965.03*	-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 structure.	
14834.7 *N 3965.07*	--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 structure, red band; 10.	
14835 *N 3965.1*	-Grompoloura.	38° 10.9´ N 22° 58.9´ E	**Fl.G.** period 4s fl. 0.3s, ec. 3.7s	23 **7**	4	Metal framework structure, green band; 10.	
14835.3 *N 3965.13*	-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 structure, red band; 10.	

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			GREECE-WEST COAST-IONIOI NISOI (IONIAN ISLANDS)				
14835.7 *N 3965.16*	-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 structure, green band; 10.	
14835.8 *N 3965.18*	-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 structure, gallery, metal column, red band; 18.	
14836 *N 3965.2*	-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 structure, gallery, red band; 18.	
14838 *N 3965.4*	-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 structure, gallery, green band; 18.	
14840 *N 3971*	-Germaino, 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 structure, gallery, metal column, red band; 18.	Fl.G. 2s marks E. mole head.
14844 *N 3972*	**-Akra Melangavi.**	38° 01.7´ N 22° 51.1´ E	**Fl.W.** period 10s fl. 0.3s, ec. 9.7s	197 **60**	**19**	Square tower, dwelling; 39.	
	-Korinthos:						
14852 *N 3976*	--Posidhonia, Dhiorix Korinthou, entrance, N. mole, head.	37° 57.2´ N 22° 57.5´ E	**Iso.R.** period 2s	33 **10**	10	White metal framework structure, gallery; 26.	Dhiorix Korinthou is lighted by electric lights. A W. light shown from flagstaff indicates that vessels can enter, 2 W. lights prohibit entry.
14856 *N 3977*	---S. mole, head.	37° 57.2´ N 22° 57.5´ E	**Iso.G.** period 2s	33 **10**	10	White metal framework structure, gallery; 26.	
14857 *N 3978.9*	--S. mole, head.	37° 56.4´ N 22° 56.2´ E	**F.R.**	20 **6**	3	White concrete column, red band; 13.	
14857.1 *N 3978.91*	--N. mole, head.	37° 56.5´ N 22° 56.2´ E	**F.G.**	23 **7**	3	White concrete column, green band; 13.	
14860 *N 3979*	--Pierhead, about 2.4 km. 250° from Posedhonia, S. mole.	37° 56.7´ N 22° 56.2´ E	**Fl.G.** period 3s fl. 0.4s, ec. 2.6s	33 **10**	3	White column, white hexagonal hut, gallery, green band; 30.	
14864 *N 3973*	-Kiaton, jetty, head.	38° 00.8´ N 22° 45.0´ E	**Fl.G.** period 3s fl. 1s, ec. 2s	30 **9**	6	Metal framework structure, gallery, metal column, green band; 20.	
14864.1 *N 3973.3*	--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 structure, gallery, metal column, red band.	
14864.2 *N 3973.5*	--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 structure, gallery, metal column, green band.	
14865 *N 3973.6*	-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 structure, gallery, metal column, red band; 20.	
14866 *N 3968.2*	-Xylokastro, S. mole.	38° 04.9´ N 22° 37.5´ E	**F.R.**	26 **8**	3	Metal column, red band.	
14868 *N 3967*	-Akra Likoporia.	38° 08.2´ N 22° 29.2´ E	**Fl.(2)W.** period 16s fl. 1s, ec. 2s fl. 1s, ec. 12s	56 **17**	10	White metal framework tower, gallery; 56.	
14872 *N 3950*	-Ormos Aiyou, S. side of gulf, pier, head.	38° 15.2´ N 22° 04.9´ E	**Fl.R.** period 1.5s fl. 0.3s, ec. 1.2s	20 **6**	3	Metal framework structure, white round hut, red band; 18.	
14876 *N 3948*	-Akra Dhrepanon.	38° 20.3´ N 21° 51.0´ E	**Fl.W.** period 10s fl. 0.3s, ec. 9.7s	33 **10**	10	Round tower, dwelling; 29.	

(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)						
14876.1 *N 3995.85*	Lechena, fishing harbor, N mole, head.	37° 58.0´ N 21° 14.2´ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	23 **7**	3	Metal framework structure, gallery, metal column, green band.	
14876.2 *N 3995.8*	--S. mole, head.	37° 58.0´ N 21° 14.2´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	23 **7**	3	Metal framework structure, gallery, metal column, red band.	
14877 *N 3948.5*	-Arakhovitika, fishing harbor, mole, head.	38° 19.9´ N 21° 50.6´ E	**Fl.G.** period 4s fl. 1s, ec. 3s	20 **6**	5	Metal framework structure, gallery, metal column, green band; 16.	
14878 *N 3995.5*	Kyllini, Fishing Harbor, S. Mole, head.	37° 56.1´ N 21° 09.0´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	23 **7**	3	Metal framework structure, gallery, red band.	
14879 *N 3995.6*	--N. Mole, head.	37° 56.2´ N 21° 09.0´ E	**Fl.G.** period 3s	23 **7**	3	Metal framework structure, gallery, green band.	
14879.5 *N 3995.7*	--N. breakwater.	37° 56.2´ N 21° 09.2´ E	**Fl.G.** period 1.3s	26 **8**	3		
14880 *N 3996*	Nisis Kavkalidha.	37° 56.4´ N 21° 07.2´ E	**L.Fl.W.R.** period 10s fl. 2s, ec. 8s	69 **21**	W. 12 R. 9	Square tower, dwelling; 49.	W. 016°-059°, R.-092°, W.-211°. Reserve light F.W.R.
14884 *N 3997*	Akra Tripiti.	37° 50.5´ N 21° 06.7´ 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 structure, white round hut; 17.	
14888	*Gastouni, LIGHTFLOAT.*	37° 47.1´ N 21° 14.0´ E	**Fl.Y.** period 2s	26 **8**	3	Black float, framework tower; 26.	
14892 *N 3998*	**Akra Katakolon.**	37° 38.2´ N 21° 18.9´ E	**Fl.W.** period 4s fl. 1s, ec. 3s	161 **49**	**15**	Octagonal tower, dwelling; 30.	
14896	Ormos Katakolou, pier, head.	37° 38.7´ N 21° 19.6´ E	**Fl.R.** period 5s fl. 0.8s, ec. 4.2s	33 **10**	10	White round hut, red band; 29.	
	NISOI STROFADHES:						
14900 *N 4004*	**-Nisis Stamfani.**	37° 14.7´ N 21° 00.2´ E	**Fl.(2)W.** period 15s fl. 0.1s, ec. 4.9s fl. 0.1s, ec. 9.9s	127 **39**	**17**	Square tower, dwelling; 36.	
14904 *N 4006*	Nisis Proti, S. point.	37° 02.0´ N 21° 33.0´ E	**Fl.W.** period 1.5s fl. 0.3s, ec. 1.2s	43 **13**	6	Metal framework structure, white round hut; 18.	
	ORMOS NAVARINOU:						
14908 *N 4008*	-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 structure; 20.	
14912 *N 4009*	-Akra Neokastron.	36° 54.7´ N 21° 41.3´ E	**Fl.G.** period 3s fl. 0.4s, ec. 2.6s	49 **15**	6	White hexagonal hut, gallery, column, green band; 26.	
14916 *N 4010*	-Pilos, pier, head.	36° 54.9´ N 21° 41.8´ E	**F.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 *N 4010.2*	--Mole, head.	36° 55.0´ N 21° 41.8´ E	**F.G.**	20 **6**	3	Metal framework structure.	
14920 *N 4011*	-Nisis Helonisi.	36° 56.5´ N 21° 41.3´ E	**Fl.W.R.** period 3s fl. 0.3s, ec. 2.7s	36 **11**	W. 4 R. 3	White hexagonal hut, gallery, column; 26.	W. 113°-095°, R.-113°.

(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)				
14924 *N 4014*	Methoni, pier, head.	36° 48.8´ N 21° 42.5´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	20 **6**	3	White metal framework structure, red band; 13.	
	NISIS SAPIENTZA:						
14928 *N 4015*	-N. point (Akra Karsi).	36° 47.7´ N 21° 42.2´ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	72 **22**	5	White pyramidal structure; 13.	
14932 *N 4016*	-S. summit.	36° 44.3´ N 21° 41.9´ 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.	
14940 *N 4017*	Nisis Venetiko, N. point.	36° 42.2´ N 21° 53.2´ E	**Fl.W.** period 9s fl. 0.5s, ec. 8.5s	26 **8**	7	Metal framework structure, white round hut; 18.	
	MESSINIAKOS KOLPOS:						
14944 *N 4018*	-Koroni, mole, head.	36° 48.0´ N 21° 57.6´ E	**Fl.R.** period 1.5s fl. 0.3s, ec. 1.2s	26 **8**	3	Metal framework structure; 13.	
14948 *N 4020*	-Akra Livadhia.	36° 47.6´ N 21° 58.0´ E	**Fl.W.** period 1.5s fl. 0.4s, ec. 1.1s	62 **19**	5	Metal framework structure; 13.	
14952 *N 4022*	-Akra Petalidhi.	36° 57.5´ N 21° 56.1´ E	**Fl.W.** period 4s fl. 0.4s, ec. 3.6s	23 **7**	5	Metal framework structure, white round hut; 18.	
14954 *N 4031*	-Marina. S. breakwater, head.	37° 01.3´ N 22° 06.3´ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	33 **10**	3	Metal framework structure, gallery, green band.	
14955 *N 4031.2*	--N. breakwater, head.	37° 01.4´ N 22° 06.3´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	33 **10**	3	Metal framework structure, gallery, red band.	
14956 *N 4026*	-Kalamai, S. jetty, head.	37° 01.1´ N 22° 07.1´ E	**Fl.R.** period 1.5s fl. 0.3s, ec. 1.2s	33 **10**	3	White hexagonal hut, column, red band; 23.	
14960 *N 4030*	--Inner mole, head.	37° 01.3´ N 22° 06.9´ E	**Q.G.**	20 **6**	3	White round hut, column, green band; 13.	
14964 *N 4028*	--New E. mole, head.	37° 01.2´ N 22° 07.2´ E	**Fl.G.** period 1.5s fl. 0.3s, ec. 1.2s	30 **9**	3	White hexagonal hut, column, green band; 13.	
14968 *N 4032*	-Akra Kitries.	36° 54.9´ N 22° 07.7´ E	**Fl.(2)W.** period 12s fl. 0.8s, ec. 1.4s fl. 0.8s, ec. 9s	105 **32**	7	Square tower, dwelling; 36.	
14972 *N 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	White round hut, column; 16.	
14976 *N 4038*	-Selenitsa.	36° 49.4´ N 22° 16.7´ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	33 **10**	5	White round hut, column; 16.	
14980 *N 4040*	-Ormos Limeniou, entrance, S. side.	36° 40.6´ N 22° 22.1´ E	**Fl.W.** period 1.5s fl. 0.4s, ec. 1.1s	56 **17**	6	White metal column, dwelling; 7.	
14984 *N 4042*	-Mezapos.	36° 32.6´ N 22° 23.3´ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	52 **16**	5	White pyramidal structure; 12.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
	LAKONIKOS KOLPOS:						
14988 *N 4044*	-Gerolimena.	36° 28.6´ N 22° 23.8´ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	59 **18**	6	Metal framework structure; 13.	
14992 *N 4048*	**-Akra Tainaron.**	36° 23.1´ N 22° 28.9´ E	**Fl.(2)W.** period 20s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 17.3s	135 **41**	**22**	Square tower, dwelling; 52.	
15000 *N 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	Metal framework structure; 10.	
15004 *N 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 structure, green band; 13.	
15008 *N 4052*	-Limin 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, dwelling; 75.	
15012 *N 4054*	- -Jetty, head.	36° 45.4´ N 22° 34.1´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	26 **8**	3	Metal framework structure, gallery, red band.	
15016 *N 4058*	-Molaon, E. side of gulf, mole, head.	36° 45.0´ N 22° 47.8´ E	**Fl.G.** period 1.5s fl. 0.3s, ec. 1.2s	33 **10**	3	Metal framework structure, white round hut, green band; 16.	
15020 *N 4060*	-Akra Xilis.	36° 39.3´ N 22° 49.2´ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	36 **11**	5	Metal framework structure, white round hut; 16.	
15024 *N 4062*	-Ormos Xilis, Plitra, mole, head.	36° 41.0´ N 22° 50.0´ E	**Q.G.**	26 **8**	3	Metal framework structure; 7.	
15028 *N 4073*	Vrakhos Stavros.	36° 30.7´ N 22° 58.8´ E	**Fl.R.G.** period 1.5s fl. 0.3s, ec. 1.2s	20 **6**	3	Metal framework structure; 13.	R. 000°-180°, G.-000°.
15030 *N 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 structure, gallery, metal column, green band; 20.	
15036 *N 4074*	Ormos Vatika.	36° 29.4´ N 23° 03.9´ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	52 **16**	7	Metal framework structure; 10.	
15040 *N 4076*	Akra Zovollo.	36° 25.8´ N 23° 07.7´ E	**Fl.W.** period 7s fl. 1s, ec. 6s	43 **13**	12	White lantern; 13.	
15044 *N 4078*	**Akra Maleas.**	36° 27.1´ N 23° 12.0´ E	**Fl.W.** period 10s fl. 0.3s, ec. 9.7s	131 **40**	**17**	Square tower, dwelling; 49.	Visible 175°-345°.
	NISOS KITHIRA:						
15048 *N 4066*	**-Akra Spathi.**	36° 22.8´ N 22° 56.8´ 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 tower, dwelling; 82.	Visible 062°-319°.
15050 *N 4071*	-Ayia Pelayia.	36° 19.6´ N 22° 58.9´ E	**Fl.R.** period 1.5s fl. 0.3s, ec. 1.2s	19 **6**	3	Metal framework structure, white round hut, red band; 18.	
15051 *N 4067*	-Kapsali, pier, head.	36° 08.3´ N 22° 59.9´ E	**F.G.**	33 **10**	3	White metal column, green band; 33.	
15052 *N 4068*	-Ormos Kapsaliou, E. side.	36° 08.5´ N 23° 00.1´ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	79 **24**	10	Tower, dwelling; 26.	

(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)						
15060 *N 4070*	-Ormos Ayiou Nikolaou, entrance, SE. side.	36° 13.4´ N 23° 04.9´ E	**Fl.G.** period 1.5s fl. 0.3s, ec. 1.2s	26 **8**	3	White round hut, column, green band; 20.	
15062 *N 4070.3*	-Diakofti, mole, head.	36° 16.2´ N 23° 04.6´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	30 **9**	3	Metal framework structure, gallery, red band.	
15064 *N 4065*	-Vrakhonisis Andidhragonera.	36° 14.1´ N 23° 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	46 **14**	7	Metal framework structure; 13.	
15068 *N 4070.6*	-Diakofti Kithiron, on Vrachonisis Makronisos.	36° 16.4´ N 23° 04.8´ E	**Fl.W.** period 10s fl. 1s, ec. 9s	59 **18**	7	Metal framework structure; 13.	
	NISOS ANDIKITHIRA:						
15076 *N 4072*	**-Akra Apolitares.**	35° 49.6´ N 23° 19.6´ E	**Fl.(2)W.** period 15s fl. 0.1s, ec. 4.9s fl. 0.1s, ec. 9.9s	131 **40**	**17**	Round tower, dwelling; 26.	
15080 *N 4072.4*	-Akra Kastron.	35° 53.4´ N 23° 17.8´ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	102 **31**	6	White metal framework structure; 13.	
15082 *N 4072.6*	- -Entrance, W. limit.	35° 53.1´ N 23° 17.4´ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	59 **18**	3	White metal framework structure, green band; 13.	
15084 *N 4088*	**Nisis Falkonera.**	36° 50.2´ N 23° 53.3´ E	**Fl.W.** period 5s fl. 1s, ec. 4s	499 **152**	**17**	White lantern; 13.	Visible 169°-120°.
15088 *N 4090*	**Nisis Velopoula.**	36° 55.7´ N 23° 27.2´ E	**Fl.(2)W.** period 20s fl. 0.2s, ec. 3s fl. 0.2s, ec. 16.6s	367 **112**	**22**	Octagonal tower, dwelling; 26.	
	GREECE						
15092 *N 4080*	Akra Monemvasia, Khers Elos, E. side.	36° 41.3´ N 23° 03.5´ E	**Fl.W.** period 5s fl. 0.6s, ec. 4.4s	49 **15**	11	Metal framework structure, white square hut; 23.	
15096 *N 4081*	-Mole, head.	36° 41.3´ N 23° 02.5´ E	**Fl.R.** period 2s fl. 0.3s, ec. 1.7s	26 **8**	3	Metal framework structure, gallery, metal column, red band.	
15100 *N 4082*	Angirovoliou Palaia Monemvasia.	36° 43.9´ N 23° 02.5´ E	**Fl.G.** period 1.5s fl. 0.3s, ec. 1.2s	26 **8**	3	Metal framework structure, white round hut, green band; 23.	
15104 *N 4086*	Ormos Ierakos, Akra Kastro.	36° 47.1´ N 23° 05.4´ E	**Fl.G.** period 3s fl. 0.4s, ec. 2.6s	69 **21**	5	White round hut, column, green band; 20.	
15108 *N 4092*	Ormos Kiparissiou, entrance, S. side.	36° 58.1´ N 23° 00.2´ E	**Fl.R.** period 1.5s fl. 0.3s, ec. 1.2s	26 **8**	3	Metal framework structure, red band; 10.	
15112 *N 4094*	-Akra Aspro Khorti.	36° 59.0´ N 23° 00.3´ E	**Fl.W.** period 4s fl. 0.3s, ec. 3.7s	138 **42**	7	White round hut, column; 12.	
	ARGOLIKOS KOLPOS:						
15116 *N 4096*	-Leonidhion, W. side of entrance to gulf.	37° 08.7´ N 22° 53.6´ E	**Fl.G.** period 1.5s fl. 0.3s, ec. 1.2s	23 **7**	3	Metal column, green band; 13.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			GREECE				
15117 *N 4095*	-Poulithra, mole, head.	37° 07.0´ N 22° 54.2´ E	**F.R.**	26 **8**	3	White concrete column, red band; 23.	
15120 *N 4098*	-Akra Sambatikis.	37° 11.4´ N 22° 54.7´ E	**L.Fl.W.** period 7.5s fl. 2s, ec. 5.5s	72 **22**	6	Metal framework structure; 13.	
15124 *N 4104*	-Akra Astros.	37° 25.4´ N 22° 46.1´ E	**Fl.W.** period 5s fl. 0.8s, ec. 4.2s	253 **77**	7	Metal framework structure; 13.	
15132 *N 4107*	-Ormos Navpliou, pier, head.	37° 33.3´ N 22° 43.2´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	26 **8**	4	White hexagonal hut, column, red band; 23.	
15134 *N 4106.2*	-Kiveri, N. breakwater, head.	37° 31.5´ N 22° 43.9´ E	**Fl.Y.** period 1.5s fl. 0.2s, ec. 1.3s	23 **7**	3	Metal framework structure, gallery, metal column; 16.	
15134.5 *N 4106*	--S. mole, head.	37° 31.5´ N 22° 44.1´ E	**F.R.**	20 **6**	3	White metal column, red band; 13.	
15135 *N 4107.5*	Nea Kios.	37° 35.0´ N 22° 44.9´ E	**Fl.R.** period 2s fl. 0.3s, ec. 1.7s	20 **6**	3	Metal framework structure, gallery, metal column, red band.	
15136 *N 4108*	--Akra Panayias.	37° 33.7´ N 22° 47.5´ E	**Fl.W.** period 1.5s fl. 0.3s, ec. 1.2s	36 **11**	5	Metal framework structure, white round hut; 16.	
15140 *N 4109*	--Breakwater, head.	37° 34.0´ N 22° 47.5´ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	33 **10**	3	White hexagonal hut, gallery, column, green band; 26.	
15143 *N 4110.6*	-Tolo Bay, pier, head.	37° 30.9´ N 22° 51.5´ E	**2 F.R.** (vert.)	20 **6**	3	White metal column, red band; 16.	1 meter apart.
15144 *N 4110.4*	-Akra Skala.	37° 30.2´ N 22° 52.5´ E	**Fl.(2)W.R.** period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 8s	75 **23**	W. 6 R. 4	Metal framework structure, white round hut; 23.	W. 207°-315°, R.-343°, W.-075°.
15148 *N 4110*	--Nisis Tolo, Akra Megali.	37° 30.6´ N 22° 51.3´ E	**Fl.W.** period 2s fl. 0.3s, ec. 1.7s	82 **25**	3	Metal framework structure, white round hut; 20.	
15152 *N 4111*	-Limin Khaidhari.	37° 31.3´ N 22° 56.1´ E	**Fl.(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. 5 R. 3	Metal framework structure, white round hut; 20.	W. 301°-046°, R.-058°, W.-220°.
15154 *N 4111.5*	-Iria, fishing harbor, S. mole, head.	37° 28.7´ N 22° 59.9´ E	**F.G.**	20 **6**	3	Metal column, green band.	
15156 *N 4112*	-Nisis Ipsili.	37° 25.8´ N 22° 58.1´ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	52 **16**	9	Metal framework structure; 13.	Visible 301°-157°.
15160 *N 4113*	-Ormos Koiladhos, Akra Kokkina.	37° 25.3´ N 23° 06.8´ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	20 **6**	4	White pyramidal structure; 13.	
15161 *N 4113.5*	--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 *N 4114*	-Akra Korakas.	37° 21.1´ N 23° 04.0´ E	**Fl.W.** period 7s fl. 1s, ec. 6s	39 **12**	11	White lantern; 10.	Visible 311°-131°.
15168 *N 4103*	-Nisis Petrokaravo, N. extremity.	37° 17.1´ N 23° 04.8´ E	**Fl.(2)W.** period 9s fl. 0.3s, ec. 1.2s fl. 0.3s, ec. 7.2s	72 **22**	7	Metal framework structure; 10.	
15172 *N 4118*	-Limin Kheliou, entrance, N. side.	37° 18.9´ N 23° 07.6´ E	**Fl.W.** period 1.5s fl. 0.3s, ec. 1.2s	72 **22**	5	White square hut, two pilasters; 23.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			GREECE				
15174 *N 4118.3*	-Cheli, SE. entrance.	37° 18.5´ N 23° 08.1´ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	26 **8**	3	White hexagonal hut, gallery, column, green band.	
15176 *N 4100*	**-Nisos Spetsai.**	37° 15.8´ N 23° 10.0´ E	**Fl.W.R.** period 5s fl. 0.2s, ec. 4.8s	89 **27**	W. **18** R. 14	White round tower, dwelling; 36.	W. 124°-254°, R.-278°, W.-330°.
15180 *N 4101*	--Ormos Balitza, entrance, E. side.	37° 15.8´ N 23° 10.0´ E	**Q.R.**	16 **5**	3	White metal framework structure, red band; 13.	
15184 *N 4102*	--Limin Dipias, E. pier, head.	37° 16.2´ N 23° 09.4´ E	**F.R.**	20 **6**	3	White metal column, red band.	F.G. 3M marks W. pier head.
15188 *N 4099*	--Akra Mavrokavos.	37° 14.8´ N 23° 09.9´ E	**Fl.W.R.** period 2s fl. 0.4s, ec. 1.6s	23 **7**	W. 5 R. 3	Metal framework structure, white round hut; 16.	W. 199°-314°, R.-333°, W.-019°.
15192 *N 4120*	-Akra Mouzaki.	37° 20.9´ N 23° 16.7´ E	**L.Fl.W.** period 7.5s fl. 2.5s, ec. 5s	75 **23**	4	Metal framework structure; 13.	Visible 127°-037°.
15196 *N 4124*	-Nisos Dhokos, Stenon Petasi, N. side.	37° 19.9´ N 23° 21.3´ E	**Fl.(2)W.R.** period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 9.5s	75 **23**	W. 6 R. 4	Round tower, dwelling; 30.	W. 219°-341°, R.-026°, W.-063°.
15200 *N 4126*	-Limin Idhras, E. jetty.	37° 21.2´ N 23° 28.0´ E	**Fl.R.** period 1.5s fl. 0.3s, ec. 1.2s	34 **10**	3	Metal framework structure, white round hut, red band; 16.	
15204 *N 4130*	--W. jetty, head.	37° 21.1´ N 23° 28.0´ E	**F.G.**	16 **5**	2	White stone column, green band.	
15208 *N 4127*	--E. breakwater, head.	37° 21.1´ N 23° 28.0´ E	**F.R.**	20 **6**	2	White stone column, red band.	
15210 *N 4119*	-Akra Aimilianos.	37° 17.4´ N 23° 12.0´ E	**Fl.W.R.** period 10s fl. 0.5s, ec. 9.5s	23 **7**	W. 8 R. 6	Hexagonal hut, gallery, column; 16.	W. 193°-314°, R.-357°, W.-070°.
15212 *N 4122*	-Akra Kastri.	37° 23.1´ N 23° 15.6´ E	**Fl.W.** period 1.5s fl. 0.3s, ec. 1.2s	72 **22**	4	White square hut, two pilasters; 13.	
15216 *N 4134*	**Akra Zourvas.**	37° 21.9´ N 23° 34.8´ E	**Fl.(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, dwelling; 33.	Visible 128°-023°.
15218 *N 4134.5*	Fourkari, Soupia Installation, W. groyne, head.	37° 25.4´ N 23° 29.1´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	20 **6**	3	Metal framework structure, gallery, metal column, red band; 18.	
15219 *N 4134.6*	--E. groyne, head.	37° 25.4´ N 23° 29.1´ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	20 **6**	3	Metal framework structure, gallery, metal column, green band; 18.	
15220 *N 4135*	Nisoi Tselevinia, Nisis Skilli.	37° 26.7´ N 23° 32.7´ E	**Fl.W.** period 3s fl. 0.6s, ec. 2.4s	102 **31**	8	White round hut; 10.	Visible 078°-010°.
15224 *N 4136*	**-Nisis Ayios Yeoryios.**	37° 27.8´ N 23° 56.2´ E	**Fl.(2)W.** period 15s fl. 0.1s, ec. 4.9s fl. 0.1s, ec. 9.9s	476 **145**	**17**	White lantern; 33.	Visible 169°-116°.
	SARONIKOS KOLPOS:						
	-Nisos Poros:						
15228 *N 4140*	--Akra Dana.	37° 31.7´ N 23° 25.5´ E	**Fl.W.R.** period 5s fl. 1s, ec. 4s	102 **31**	W. 8 R. 5	Square tower, dwelling; 30.	W. 026°-200°, R.-209°, W.-266°.
15232 *N 4140.3*	--Akra Nedha.	37° 31.1´ N 23° 25.3´ E	**Fl.R.** period 2s fl. 0.3s, ec. 1.7s	20 **6**	3	White round hut, metal column, 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 *N 4141*	--Akra Stavros, island, S. point.	37° 29.6′ N 23° 27.7′ E	**Fl.G.R.** period 3s fl. 0.3s, ec. 2.7s	23 **7**	4	White metal framework structure, dwelling; 10.	G. 253°-284°, R.-309°, G.-110°.
15240 *N 4141.2*	-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 concrete column, gallery, green band; 16.	Q.G. 7m 3M and Q.R. 7m 3M mark marina entrance.
15244 *N 4141.37*	--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 structure, gallery, metal column, green band; 18.	
15248 *N 4154*	-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, square masonry base; 16.	W. 296°-322°, R.-336°, W.-075°, G.-165°, W.-173°, R.-187°, W.-223°.
15252 *N 4144*	--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 tower, dwelling; 30.	
	-Nisos Aiyina:						
15256 *N 4148*	--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	Metal framework structure, white round hut; 16.	
15260 *N 4149*	---Near root.	37° 44.7′ N 23° 25.6′ E	**F.R.**	23 **7**	4	Metal framework structure, white round hut; 16.	
15264 *N 4150*	--SE. mole, head.	37° 44.7′ N 23° 25.6′ E	**F.G.**	23 **7**	3	Metal framework structure, green round hut; 20.	
15266 *N 4153*	-Ayia Marina, pier, head.	37° 44.6′ N 23° 32.3′ E	**Fl.G.** period 2s fl. 0.3s, ec. 1.7s	16 **5**	3	Metal framework structure, gallery, metal column, green band.	
15268 *N 4152*	-Akra Tourlos.	37° 45.8′ N 23° 33.9′ E	**Fl.W.** period 3.6s fl. 0.5s, ec. 3.1s	92 **28**	5	Metal framework structure; 16.	
15270 *N 4151*	-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 structure, gallery; 20.	
15272 *N 4158*	-Nisos Lagousa, E. point.	37° 48.8′ N 23° 28.4′ E	**L.Fl.W.** period 7.5s fl. 2s, ec. 5.5s	39 **12**	5	Metal framework structure, white round hut; 16.	
15276 *N 4141.5*	--Vathi, W. side of Khersonisos Methanon.	37° 35.6′ N 23° 20.2′ E	**F.R.**	39 **12**	3	White concrete column, red band; 33.	
15280 *N 4141.6*	-Limin Palaias Ediphavron, Akra Yiannouzaina (Kalamaki).	37° 38.5′ N 23° 10.1′ E	**Fl.W.** period 2s fl. 0.4s, ec. 1.6s	33 **10**	6	White round hut; 13.	Visible 185°-095°.
15284 *N 4141.64*	--N. side of channel.	37° 38.3′ N 23° 09.7′ E	**Q.G.**	16 **5**	3	White hexagonal hut, pedestal, green band; 10.	
15288 *N 4141.66*	--S. side.	37° 38.3′ N 23° 09.7′ E	**Q.R.**	16 **5**	3	White hexagonal hut, pedestal, red band; 16.	
15292 *N 4141.7*	--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, column, red band; 23.	Visible 253°-280°.
15296 *N 4141.8*	-Ormos Neas Epidhavrou.	37° 40.7′ N 23° 09.1′ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	23 **7**	3	White hexagnoal hut, column, red band; 20.	Visible 257°-331°.
15300 *N 4141.9*	-Spalathronisi.	37° 42.1′ N 23° 14.1′ E	**Fl.W.** period 8s fl. 0.4s, ec. 7.6s	121 **37**	6	White metal column; 7.	
15304 *N 4142*	-Ormos Sofikou.	37° 45.6′ N 23° 07.8′ E	**Fl.W.** period 4s fl. 0.4s, ec. 3.6s	36 **11**	5	White square hut, two pilasters; 13.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			GREECE				
15308 *N 4143*	-Nisis Euraios, NE. point.	37° 51.6´ N 23° 08.6´ E	**Fl.W.** period 10s fl. 0.5s, ec. 9.5s	157 **48**	7	White metal column; 13.	
15312 *N 4160*	--Kalamaki, mole, W. side.	37° 55.0´ N 23° 00.5´ E	**Iso.R.** period 2s	33 **10**	10	White metal mast, red band; 26.	
	-Dhiorix Korinthou Entrance:						
15316 *N 4160.4*	--Breakwater, N. side, NE. head.	37° 54.9´ N 23° 00.7´ E	**Iso.G.** period 2s	26 **8**	10	White metal framework structure, green band; 23.	
15320 *N 4162*	-Akra Sousaki.	37° 54.7´ N 23° 03.4´ E	**Fl.G.** period 10s fl. 0.2s, ec. 9.8s	30 **9**	12	Round tower, dwelling; 26.	Visibility may be reduced by bright shore lights.
15324 *N 4168*	-Akra Kokhi.	37° 52.4´ N 23° 26.9´ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	112 **34**	9	Round tower, dwelling; 39.	
15328 *N 4167*	-Nisidhes Kanakia.	37° 54.2´ N 23° 23.5´ E	**Fl.W.** period 6s fl. 0.3s, ec. 5.7s	56 **17**	5	Metal framework structure, white round hut; 16.	
15336 *N 4164*	-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 structure, white round hut; 16.	
15340 *N 4164.4*	-Nisis Revithousa.	37° 57.6´ N 23° 24.4´ E	**Fl.W.** period 1.5s fl. 0.2s, ec. 1.3s	30 **9**	6	White hexagonal hut, column; 23.	
15344 *N 4163.3*	-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. 5 R. 3	White hexagonal hut, gallery, column; 26.	W. 145°-030°, R.-054°, W.-078°.
15346 *N 4163*	-Ormos Pakhi.	37° 58.3´ N 23° 21.7´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	16 **5**	3	Metal framework structure; 10.	
15347 *N 4163.2*	-E. mole, head.	37° 58.4´ N 23° 21.7´ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	23 **7**	3	Metal framework structure, gallery, column, green band.	
15348 *N 4163.5*	-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 *N 4163.6*	--E. pier, head.	37° 58.3´ N 23° 22.9´ E	**2 F.R.** (vert.)	20 **6**	3	White metal column.	Private light.
15356 *N 4165*	-Makronisos, W. head.	37° 58.0´ N 23° 24.6´ E	**Fl.G.** period 3s fl. 0.4s, ec. 2.6s	46 **14**	3	Metal framework structure; 16.	
15370 *N 4169.5*	-Selinia, pier, head.	37° 56.0´ N 23° 32.2´ E	**2 F.R.** (vert.)	23 **7**	3	White metal column.	
15372 *N 4169*	-Nisis Atalandi.	37° 56.1´ N 23° 34.4´ E	**Fl.W.R.** period 1.5s fl. 0.3s, ec. 1.2s	26 **8**	W. 4 R. 2	Metal framework structure, white round hut; 16.	W. 095°-065°, R.-095°.
15376 *N 4170*	**-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, dwelling; 46.	
15378 *N 4170.1*	--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 structure, gallery, metal column, red band; 23.	
15380 *N 4170.2*	--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 structure; 16.	
15384 *N 4171.5*	-Akra Keos, mole, head.	37° 56.9´ N 23° 35.9´ E	**Fl.(2)G.** period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	46 **14**	9	White round tower, gallery, green band.	

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			GREECE				
15388 *N 4170.4*	-Akra Kinosoura.	37° 56.8´ N 23° 34.7´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	39 **12**	4	Metal framework structure, white square hut, red band; 23.	
15390 *N 4170.5*	-Kinosoura Shipyard, jetty, head.	37° 56.9´ N 23° 33.2´ E	**F.R.**	16 **5**	2	White metal column, red band; 23.	Private light.
15392 *N 4170.6*	-Ormos Ambelakia, Khandris, pier.	37° 57.0´ N 23° 32.9´ E	**2 F.G.** (vert.)	16 **5**	3	White metal column, green band; 9.	1 meter apart. Private light.
15402 *N 4170.82*	--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 structure, green band; 16.	Visible 181°-090°.
15404 *N 4174.86*	--Titan Pier, head.	38° 01.9´ 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.
15408 *N 4175.7*	--Tourkolimano, pier, head.	38° 01.9´ N 23° 30.6´ E	**Iso.R.** period 2s	36 **11**	9	White hexagonal hut, gallery, column, red band; 26.	
	-Kolpos Elevsinos:						
15412 *N 4175.54*	--Cement factory pier, NW. corner.	38° 02.6´ N 23° 31.7´ E	**3 F.R.**	33 **10**	3	White metal column; 26.	Private light.
15420 *N 4175*	--E. breakwater, head.	38° 02.1´ 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 structure, green band; 13.	
15424 *N 4175.52*	---Main pier.	38° 02.4´ N 23° 32.0´ E	**2 F.R.** (vert.)	39 **12**	2	White metal column, red band; 33.	Private light.
15428 *N 4175.5*	--Naval pier, head.	38° 02.2´ N 23° 32.0´ E	**3 F.R.** (vert.)	39 **12**	2	White metal column; 33.	1 meter apart.
15432 *N 4174.84*	--Kalimpaki, pier, head.	38° 02.3´ N 23° 33.6´ E	**2 F.R.** (vert.)	20 **6**	3	Metal framework structure, gallery, metal column.	1 meter apart. Private light.
15436 *N 4174.83*	--Airport, pier head, about 460 meters NW. of Texaco pier.	38° 02.1´ N 23° 35.2´ E	**F.R.**	16 **5**	3	White metal column, red band; 13.	
15440 *N 4174.82*	--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 *N 4174.8*	--Texaco, pier, head.	38° 02.0´ N 23° 35.4´ E	**2 F.G.** (vert.)	30 **9**	6	White metal mast, green band; 23.	Private light.
15448 *N 4174.78*	--Koumondoros, pier, head.	38° 01.7´ N 23° 35.7´ E	**3 F.G.** (horiz.)	26 **8**	3	Metal mast, green band; 20.	Private light.
15449 *N 4174.79*	--Pier, head.	38° 01.5´ N 23° 35.5´ E	**2 F.G.** (horiz.)	26 **8**	3	Metal mast, green band; 16.	Private light.
15450 *N 4174.73*	--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 *N 4174.74*	---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 *N 4174.77*	--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 *N 4174.7*	--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 *N 4174.6*	--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 structure; 13.	
15462 *N 4176.3*	--Nea Peramos.	37° 59.9´ N 23° 25.2´ E	**Fl.G.** period 2s fl. 0.3s, ec. 1.7s	26 **8**	3	Metal framework structure, gallery, metal column, green band; 20.	
15464 *N 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. 4 R. 3	Metal framework structure; 13.	W. 072°-093°, R.-164°, W.-277°.

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			GREECE				
15466 *N 4176.5*	--Nisis Leros.	37° 59.7´ N 23° 32.1´ E	**2 F.R.** (vert.)	26 **8**	3	White metal column; 23.	1 meter apart.
15468 *N 4174.4*	--Akra Amfiali (Ormos Skaramanga), W. breakwater.	37° 59.5´ N 23° 34.0´ E	**Q.R.**	26 **8**	3	Metal framework structure; 13.	
15472 *N 4174.2*	--Nisis 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 structure, white round hut; 18.	
15476 *N 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	White square metal hut, column, dwelling; 13.	
	-Perama:						
15480 *N 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 *N 4172.8*	--Limeniskos Alieon, pier, head.	37° 57.8´ N 23° 33.2´ E	**Fl.R.** period 3s	20 **6**	3		
15496 *N 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.	
15516 *N 4177.2*	--Ormos Foron, T-jetty, S. head.	37° 56.7´ 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 *N 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 *N 4178*	--Molos Themistokleus, head.	37° 56.2´ N 23° 37.3´ E	**L.Fl.G.** period 6s fl. 2s, ec. 4s	43 **13**	9	Concrete tower, green band; 33.	
15528 *N 4180*	--Molos Vasileus Yeoryios, head.	37° 56.3´ N 23° 37.3´ E	**L.Fl.R.** period 6s fl. 2s, ec. 4s	46 **14**	9	Concrete tower, red band; 33.	
15536 *N 4182*	--Limin Zeas, S. breakwater, head.	37° 55.9´ N 23° 39.2´ E	**Fl.(2)R.** period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	33 **10**	7	White hexagonal hut, gallery, column, red band; 16.	4 F.W. 52m (occasional) lights mark stadium 1800 meters NE. Fl.G. 3M and Fl.R. 3M lights shown inside marina.
15540 *N 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 structure; 16.	
15544 *N 4186*	--Limin Mounikhias, N. breakwater, head.	37° 56.2´ N 23° 39.7´ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	30 **9**	6	Metal framework structure, white round hut, green band; 16.	Visible 205°-145°.
15548 *N 4186.2*	---S. breakwater, head.	37° 56.2´ N 23° 39.7´ E	**Iso.R.** period 2s	33 **10**	8	Metal framework structure, red band; 13.	Visible 109°-049°.
15550 *N 4187.4*	---SE. jetty, head.	37° 56.2´ N 23° 39.7´ E	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s	13 **4**	2	Metal framework structure, red band; 7.	
	-Ormos Falirou:						
15551 *N 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 structure, gallery, metal column, red band.	
15551.1 *N 4187.51*	---Inner N. mole, head.	37° 56.4´ N 23° 40.2´ E	**Q.R.**	30 **9**	3	Metal framework structure, gallery, metal column, red band.	
15551.2 *N 4187.52*	---Inner S. mole, head.	37° 56.4´ N 23° 40.1´ E	**Q.G.**	26 **8**	3	Metal framework structure, gallery, metal column, green band.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			GREECE				
15551.5 *N 4187.53*	---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 structure, gallery, metal column, green band.	
15552 *N 4186.5*	--Detached breakwater, W. end.	37° 56.1´ N 23° 40.0´ E	**Fl.G.** period 5s fl. 0.5s, ec. 4.5s	30 **9**	3	White metal framework structure, green band; 10.	
15552.5 *N 4186.6*	---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 structure, red band; 10.	
15553 *N 4187.54*	--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 structure, gallery, metal column, yellow band.	
15560 *N 4188.2*	--Submerged breakwater.	37° 56.1´ N 23° 41.1´ E	**Q.G.**	20 **6**	4	White hexagonal hut, pedestal, green band; 10.	
15562 *N 4187.56*	--S. breakwater, head.	37° 56.2´ N 23° 41.2´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	16 **5**	3	White metal framework structure, gallery, metal column, red band.	
15562.2 *N 4187.57*	--N. breakwater, head.	37° 56.2´ N 23° 41.2´ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	13 **4**	3	White metal framework structure, gallery, metal column, green band.	
15568 *N 4189.556*	-Flisvos, N. mole, head.	37° 56.0´ N 23° 40.9´ E	**Q.R.**	26 **8**	3	Metal framework structure, gallery, metal column, red band; 20.	
15568.5 *N 4189.55*	--Breakwater, W. end.	37° 56.1´ N 23° 40.8´ E	**Fl.R.** period 4s fl. 0.5s, ec. 3.5s	23 **7**	7	Metal framework structure, gallery, metal column, red band; 20.	
15569 *N 4189.5*	--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 structure, gallery, metal column, green band; 20.	
15569.1 *N 4189.552*	---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 structure, gallery, metal column, green band; 20.	Visible 105°-322°.
15569.2 *N 4189.554*	---Entrance.	37° 56.1´ N 23° 40.8´ E	**Q.G.**	33 **10**	3	White metal framework structure, gallery, metal column, green band; 16.	Visible 142°-345°.
15572 *N 4189.6*	-Limin Alimos Marina, SW. breakwater, head.	37° 54.7´ N 23° 42.0´ E	**Fl.G.** period 3s fl. 1s, ec. 2s	33 **10**	9	White hexagonal hut, column, gallery, green band; 26.	
15576 *N 4189.8*	--NE. breakwater, head.	37° 54.7´ N 23° 42.1´ E	**Fl.R.** period 3s fl. 1s, ec. 2s	33 **10**	9	White hexagonal hut, column, gallery, red band; 26.	
15578 *N 4190*	-Akra Agios Kosma.	37° 53.5´ N 23° 42.7´ E	**Q.(9)W.** period 15s	23 **7**	5	W. CARDINAL YBY, beacon, topmark; 23.	
15582 *N 4190.6*	-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 structure, gallery, metal column, green band; 16.	
15584 *N 4192*	-Vrakhoi Mermingia.	37° 50.4´ N 23° 43.9´ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	23 **7**	4	Metal framework structure; 20.	
15586 *N 4192.3*	-Voula, mole, head.	37° 50.3´ N 23° 45.7´ E	**F.R.**	26 **8**	3	White metal column, red band.	
15588 *N 4194*	-Ormos Vouliagmenis, on islet.	37° 48.2´ N 23° 46.5´ E	**Fl.(3)R.** period 12s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 7s	31 **9**	7	Metal framework structure, gallery, column, red band; 13.	
15592 *N 4193*	Nisis Fleves, summit.	37° 45.9´ 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 pyramidal structure, gallery; 10.	Visible 285°-161°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			GREECE				
15596 *N 4198*	-Ormos Anavissou.	37° 43.1´ N 23° 56.0´ E	**Q.W.R.**	26 **8**	W. 3 R. 2	White metal framework structure; 16.	W. 219°-036°, R.-047°.
15598 *N 4199*	-Limin Anavissou, mole, head.	37° 43.2´ N 23° 56.7´ E	**F.G.**	26 **8**	3	White metal column, green band; 23.	
15600 *N 4200*	-Akra Katafiyi.	37° 40.3´ N 23° 56.3´ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	56 **17**	4	White round hut, column; 10.	
15604 *N 4202*	-Nisis Patroklou Gaidouronisis, N. side.	37° 39.4´ N 23° 57.4´ E	**L.Fl.W.** period 10s fl. 2s, ec. 8s	23 **7**	6	White round hut, column; 13.	
	DHIAVLOS MAKRONISOU:						
15608 *N 4204*	-Makronisos, Akra Angalistros.	37° 38.7´ N 24° 06.3´ E	**Fl.(2)W.** period 14s fl. 1s, ec. 2s fl. 1s, ec. 10s	105 **32**	12	Lantern; 13.	Visible 207°-168°.
15612 *N 4208*	-Akra Fonias, channel, W. side.	37° 41.1´ N 24° 04.3´ E	**Fl.W.** period 2.5s fl. 0.5s, ec. 2s	43 **13**	6	Metal framework structure, white round hut; 18.	
15614 *N 4208.5*	-Ormos Gaidhouromandra.	37° 41.7´ N 24° 03.7´ E	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s	23 **7**	12	Metal framework structure, gallery, metal column, red band.	
15616 *N 4209*	-Akra Ergastiria.	37° 42.8´ N 24° 03.9´ E	**Fl.W.** period 1.5s fl. 0.3s, ec. 1.2s	23 **7**	4	Metal framework structure, white round hut; 20.	Visible 148°-081°.
15616.1 *N 4209.1*	-Lavrio, N. mole, head.	37° 42.5´ N 24° 04.1´ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	26 **8**	5	Metal framework structure, gallery, metal column, green band; 18.	
15617 *N 4209.5*	-Ormos Thorikos, S. entrance.	37° 44.0´ N 24° 03.2´ E	**F.R.**	20 **6**	3	White metal column, red band; 13.	
15618 *N 4209.51*	- -N. entrance.	37° 44.0´ N 24° 03.3´ E	**F.G.**	20 **6**	3	White metal column, green band; 13.	
15620 *N 4210*	**-Akra Vrisaki.**	37° 44.6´ N 24° 04.8´ E	**Fl.W.** period 5s fl. 0.1s, ec. 4.9s	69 **21**	**16**	Tower, dwelling; 26.	Visible 186°-006°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			GREECE-KIKLADHES				
	NISOS KEA:						
15624 *N 4218*	**-Akra Tamelos.**	37° 31.3´ N 24° 16.5´ E	**Fl.(2)W.** period 15s fl. 0.1s, ec. 4.9s fl. 0.1s, ec. 9.9s	197 **60**	**17**	Round tower, dwelling; 33.	
15628 *N 4212*	**-Ormos Ayiou Nikolaou.**	37° 40.2´ N 24° 18.9´ E	**Fl.(2)W.** period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	105 **32**	**15**	Square tower, dwelling; 23.	
15632 *N 4214*	--Akra Ayiou Savva, entrance, S. side.	37° 39.9´ N 24° 18.7´ E	**Fl.W.** period 1.5s fl. 0.3s, ec. 1.2s	69 **21**	5	Metal framework structure; 13.	
15636 *N 4215*	--Ormos Livadhi, pier, head.	37° 39.8´ N 24° 18.9´ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	26 **8**	3	Metal framework structure, gallery, metal column; 22.	
	NISOS KITHNOS:						
15640 *N 4223*	-Akra Ayios Dhimitris.	37° 18.0´ N 24° 21.8´ E	**Fl.W.** period 10s fl. 1.5s, ec. 8.5s	75 **23**	12	Metal framework structure; 13.	
15642 *N 4225*	-Ormos Merikha.	37° 23.4´ N 24° 23.7´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	23 **7**	3	Metal framework structure, gallery, metal column; 10.	
15644 *N 4224*	-Ormos Merikhas.	37° 23.9´ N 24° 23.4´ E	**Fl.W.R.** period 5s fl. 0.5s, ec. 4.5s	75 **23**	W. 5 R. 3	Metal framework structure, white square hut; 23.	W. 315°-340°, R.-030°, W.-173°.
15648 *N 4220*	-Akra Kefalos.	37° 28.9´ N 24° 26.2´ E	**Fl.W.** period 4s fl. 0.2s, ec. 3.8s	177 **54**	9	Metal framework structure; 18.	
15652 *N 4222*	-Ormos Loutron.	37° 26.5´ N 24° 26.0´ E	**Fl.W.** period 1.5s fl. 0.3s, ec. 1.2s	46 **14**	5	Metal framework structure; 13.	
15653 *N 4222.5*	--Breakwater, head.	37° 26.6´ N 24° 25.6´ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	26 **8**	3	Metal framework structure, gallery, metal column.	
	NISOS ANDROS:						
15656 *N 4332*	-Akra Kastri.	37° 52.5´ N 24° 43.6´ E	**Fl.W.** period 6s fl. 1s, ec. 5s	223 **68**	8	Metal framework structure, gallery; 36.	
15659 *N 4332.3*	--Mole, head.	37° 53.0´ N 24° 44.0´ E	**Q.G.**	26 **8**	3	White metal framework structure, gallery, green band; 20.	
15660 *N 4332.5*	-Ormos Gavriou, Akra Marmara.	37° 52.7´ N 24° 44.0´ E	**Fl.R.G.** period 2s fl. 0.3s, ec. 1.7s	50 **15**	3	White hexagonal hut, column; 20.	R. 248°-005°, G.-178°.
15664 *N 4333*	-Akra Kolona.	37° 51.2´ N 24° 46.7´ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	69 **21**	5	Metal framework structure, white round hut; 18.	
15672 *N 4330*	**-Akra Fassa.**	37° 58.0´ N 24° 42.1´ E	**L.Fl.W.** period 10s fl. 2s, ec. 8s	659 **201**	**22**	Round tower, dwelling; 59.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			GREECE-KIKLADHES				
15676 *N 4338*	**-Akra Gria.**	37° 53.8´ N 24° 57.2´ E	**Fl.W.** period 10s fl. 0.5s, ec. 9.5s	282 **86**	**25**	Round tower, dwelling; 36.	
15680 *N 4334*	-Ormos Kastrou, Nisis Tourlitis, entrance to port.	37° 50.4´ N 24° 56.5´ E	**Fl.(2)W.** period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 12s	62 **19**	6	Round stone tower; 23.	
15684 *N 4336*	--Mole, head.	37° 50.0´ N 24° 56.0´ E	**Fl.G.** period 2s fl. 0.3s, ec. 1.7s	26 **8**	3	Metal framework structure; 20.	
15688 *N 4337.5*	-Akra Ayiou Kosma.	37° 46.3´ N 24° 59.7´ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	223 **68**	7	Metal framework structure; 10.	
	-Ormos Korthiou:						
15692 *N 4336.5*	--Ayias Aikaterinis.	37° 46.7´ N 24° 57.6´ E	**Fl.W.** period 2s fl. 0.3s, ec. 1.7s	46 **14**	3	White pyramidal structure; 10.	
15700 *N 4342*	**Vrakhoi Kaloyerai.**	38° 09.5´ 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 pyramidal structure, gallery; 10.	
	NISOS SIROS:						
15704 *N 4312*	-Akra Trimeson.	37° 30.8´ 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 lantern; 13.	
15708 *N 4308*	-Nisis Dhidhimi, W. summit.	37° 25.6´ N 24° 58.3´ E	**Fl.W.** period 6s fl. 1s, ec. 5s	223 **68**	12	Round tower, dwelling; 96.	
15712 *N 4306*	-Nisis Aspro.	37° 23.5´ 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	Metal framework structure; 13.	
15714 *N 4307*	-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 structure, gallery, metal column, red band; 20.	
15716 *N 4316*	-Akra Vinglostasi.	37° 21.8´ N 24° 52.6´ E	**Fl.(3)W.** period 12s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 5s	246 **75**	6	Metal framework structure, white round hut; 16.	Visible 251°-151°.
15720 *N 4314*	-Dhimitra, Foinikes Bay.	37° 23.5´ N 24° 52.4´ E	**Fl.R.** period 1.5s fl. 0.3s, ec. 1.2s	23 **7**	4	Metal framework structure; 13.	Visible 198°-085°.
15721 *N 4315*	-Finikas Bay, S. mole, head.	37° 23.3´ N 24° 52.8´ E	**F.G.**	26 **8**	3	White metal column, green band.	
15722 *N 4313*	-Psathonisi.	37° 23.3´ N 24° 51.7´ E	**Fl.W.** period 2s fl. 0.3s, ec. 1.7s	23 **7**	5	Metal framework structure, round hut; 16.	
15723 *N 4312.5*	-Kinion Bay, mole, head.	37° 26.8´ N 24° 53.9´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	23 **7**	3	Metal framework structure, gallery, metal column; 16.	
15724 *N 4310*	-Akra Kondoyiannis.	37° 25.9´ N 24° 57.2´ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	56 **17**	5	Metal framework structure; 13.	
15728 *N 4311*	-Limin Ermoupolis, N. breakwater, head.	37° 26.2´ N 24° 56.8´ E	**Fl.G.** period 3s fl. 1s, ec. 2s	26 **8**	9	Metal framework structure, gallery, metal column, green band; 26.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			GREECE-KIKLADHES				
15732 *N 4311.2*	--S. breakwater, head.	37° 26.0´ N 24° 56.9´ E	**Fl.R.** period 3s fl. 1s, ec. 2s	36 **11**	9	White hexagonal hut, gallery, column, red band; 30.	
15733 *N 4311.7*	--Oil supply platform.	37° 26.0´ N 24° 55.0´ E	**F.Y.**	39 **12**	3	Metal column; 33.	
	NISOS TINOS:						
15736 *N 4318*	**-Nisis Dhisvato.**	37° 40.3´ N 24° 58.0´ E	**Fl.W.** period 10s fl. 0.3s, ec. 9.7s	108 **33**	**16**	Square tower, dwelling.	
15738 *N 4320*	-Nisis Planitis.	37° 39.7´ N 25° 04.1´ E	**Fl.(2)W.** period 14s fl. 0.6s, ec. 1.4s fl. 0.6s, ec. 11.4s	262 **80**	10	White metal framework structure, square hut; 20.	
15744 *N 4322*	-Akra Livadha.	37° 36.5´ N 25° 15.2´ E	**Fl.W.** period 15s fl. 1.5s, ec. 13.5s	135 **41**	7	White square tower, dwelling.	
15752 *N 4326*	--N. jetty, head.	37° 32.2´ N 25° 09.6´ E	**Fl.R.** period 2s fl. 0.3s, ec. 1.7s	30 **9**	3	White hexagonal hut, column, red band; 26.	
15756 *N 4327*	--N. mole, head.	37° 32.2´ N 25° 09.3´ E	**Fl.R.** period 3s fl. 1s, ec. 2s	33 **10**	7	White hexagonal hut, gallery, column, red band; 28.	
15758 *N 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 structure, gallery, metal column, green band.	
	NISOS SERIFOS:						
15760 *N 4230*	-Akra Kiklops.	37° 07.3´ N 24° 24.9´ E	**Fl.(2)W.** period 14s fl. 0.3s, ec. 1.2s fl. 0.3s, ec. 12.2s	220 **67**	9	White lantern; 16.	
15764 *N 4228*	**-Akra Spathi.**	37° 06.7´ N 24° 30.3´ 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; 39.	
15768 *N 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 structure; 13.	
15769 *N 4233*	-Livadhion, pier, head.	37° 08.6´ N 24° 31.0´ E	**2 F.R.** (vert.)	20 **6**	3	White metal column, red band; 16.	1 meter apart.
	NISOS SIFNOS:						
15772 *N 4234*	-Akra Fillippos, on rock.	37° 02.3´ N 24° 38.6´ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	138 **42**	9	Metal framework structure; 10.	
15776 *N 4234.5*	-Akra Kokkala.	36° 59.9´ N 24° 39.3´ E	**Fl.(2)W.** period 10s fl. 0.6s, ec. 1s fl. 0.6s, ec. 7.8s	154 **47**	9	Metal framework structure, white square hut; 23.	
15784 *N 4235.4*	--Limin Kamaron.	36° 59.4´ N 24° 40.5´ E	**Fl.G.** period 1.5s fl. 0.2s, ec. 1.3s	26 **8**	3	White metal framework structure, gallery, metal column, green band; 23.	
15788 *N 4236.4*	-Akra Maistros.	36° 55.6´ N 24° 41.1´ E	**Fl.W.** period 2s fl. 0.5s, ec. 1.5s	108 **33**	7	Metal framework structure; 13.	
15789 *N 4236.6*	-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 structure, gallery, metal column, green band.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			GREECE-KIKLADHES				
15789.1 *N 4236.5*	- -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 structure, gallery, metal column, red band.	
15792 *N 4237*	-Akra Stavros.	36° 56.3´ N 24° 45.1´ E	**Fl.W.** period 1.5s fl. 0.3s, ec. 1.2s	85 **26**	5	White hexagonal hut, column; 13.	
15796 *N 4304*	Nisis Nata, W. summit, SE. of Nisos Siros.	37° 22.0´ N 25° 03.6´ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	56 **17**	6	Metal framework structure; 20.	
	NISOS MIKONOS:						
15800 *N 4303*	-Nisidhes Prassonisia.	37° 23.4´ N 25° 17.9´ E	**Fl.W.** period 3s fl. 0.4s, ec. 2.6s	82 **25**	6	Metal framework structure, white round hut; 12.	
15804 *N 4302*	**-Akra Armenistis.**	37° 29.5´ N 25° 18.8´ E	**Fl.W.** period 10s fl. 1s, ec. 9s	604 **184**	**22**	Octagonal tower, dwelling; 62.	
15805 *N 4300.31*	-Tourlos, NW. quay, head.	37° 28.0´ N 25° 19.2´ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	26 **8**	3	Metal framework structure, gallery, metal column, green band.	
15805.2 *N 4300.32*	- -SE. quay, head.	37° 27.8´ N 25° 19.5´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	26 **8**	3	Metal framework structure, gallery, metal column, red band.	
15806 *N 4300.2*	-Limeras Mikonos, N. mole, head.	37° 27.0´ N 25° 19.5´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	30 **9**	3	White hexagonal hut, gallery, column, red band; 26.	
15808 *N 4300*	-Limin Mikonou, S. breakwater, head.	37° 27.0´ N 25° 19.6´ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	30 **9**	3	White hexagonal hut, column, green band; 25.	
15812 *N 4299*	-Nisis Khatapodhia.	37° 24.5´ N 25° 33.9´ E	**Fl.(2)W.** period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	427 **130**	10	White pyramidal structure, gallery; 14.	
	NISOS PAROS:						
15816 *N 4284*	-Nisidhes Portes, islet, NE. head.	37° 05.7´ 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 structure; 16.	
15820 *N 4289*	-Salange Islet.	37° 02.7´ N 25° 05.6´ E	**Fl.W.R.** period 4s fl. 0.3s, ec. 3.7s	37 **11**	W. 5 R. 3	Metal framework structure; 13.	R. 341°-016°, W.-135°, R.-161°, W.-341°.
15821 *N 4289.4*	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 structure, gallery, red band; 20.	
15824 *N 4286*	-Agios Fokas.	37° 05.2´ N 25° 07.8´ E	**Fl.W.** period 4s fl. 0.6s, ec. 3.4s	36 **11**	6	Metal framework structure; 20.	
15832 *N 4298*	-Nisis Mirmingas.	37° 11.5´ N 25° 03.5´ E	**Fl.W.** period 5s fl. 1s, ec. 4s	56 **17**	8	White metal column; 7.	
15836 *N 4290*	-Akra Korakas, W. side of entrance to Ormos Naousis.	37° 09.3´ N 25° 13.5´ E	**L.Fl.W.** period 12s fl. 2s, ec. 10s	197 **60**	14	Square tower, dwelling; 33.	
15840 *N 4291*	-Naoussa harbor, N. breakwater, head.	37° 07.5´ N 25° 14.2´ E	**Fl.R.** period 1.5s fl. 0.3s, ec. 1.2s	36 **11**	3	White hexagonal hut, gallery, column, red band; 26.	
15844 *N 4293*	-Vrakhos Amaridhes, off E. coast.	37° 02.9´ N 25° 18.7´ E	**Fl.W.R.** period 4s fl. 0.4s, ec. 3.6s	34 **10**	W. 5 R. 3	White hexagonal hut, column; 23.	W. 015°-185°, R.-015°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			GREECE-KIKLADHES				
15848 *N 4292*	-Akra Kratzi, Ormos Marmara, entrance, S. side.	37° 02.8´ N 25° 16.2´ 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	Metal framework structure; 10.	G. 250°-260°, W.-250°.
15852 *N 4282*	Nisis Strongilo, SW. of Nisos Paros.	36° 56.5´ N 24° 57.1´ E	**Fl.(2)W.** period 14s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 11.5s	164 **50**	5	Metal framework structure; 13.	
15856 *N 4283*	Nisis Dhespotiko, Akra Koutsouras.	36° 57.7´ N 25° 01.8´ E	**Fl.W.** period 4s fl. 0.4s, ec. 3.6s	128 **39**	5	Metal framework structure; 13.	
15860 *N 4294*	Nisos Irakleia, Ormos Ayios Georgios.	36° 52.2´ N 25° 28.1´ E	**Fl.W.** period 1.5s fl. 0.3s, ec. 1.2s	69 **21**	5	Metal framework structure; 16.	
15864 *N 4294.1*	Nisos Skhoinousa, Ormiskos Mersinia.	36° 51.9´ N 25° 30.3´ E	**Fl.W.** period 4s fl. 0.4s, ec. 3.6s	33 **10**	6	Metal framework structure; 20.	
15865 *N 4294.15*	-N. rock.	36° 53.3´ N 25° 32.6´ E	**Fl.W.** period 7s fl. 0.8s, ec. 6.2s		6	Metal framework structure, gallery, metal column.	
15866 *N 4294.4*	-Vrakhonisidha Plaki.	36° 51.6´ N 25° 37.3´ E	**Fl.(2)W.** period 8s fl. 0.8s, ec. 1.5s fl. 0.8s, ec. 4.9s		8	Metal framework structure, gallery, metal column.	
15868 *N 4294.2*	Koufonisia.	36° 55.9´ N 25° 35.4´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	30 **9**	3	Metal framework structure; 13.	
15869 *N 4294.3*	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 structure, gallery, metal column, red band; 20.	
15870 *N 4294.35*	-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 structure, gallery, metal column, green band; 20.	
15872 *N 4294.5*	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 framework structure; 10.	
	NISOS NAXOS:						
15876 *N 4295*	-Akra Stavros.	37° 12.2´ N 25° 32.2´ E	**Fl.(2)W.** period 16s fl. 1s, ec. 2s fl. 1s, ec. 12s	164 **50**	13	Metal framework structure; 10.	
15880 *N 4293.6*	-Ormos Naxou, N. breakwater, head.	37° 06.4´ N 25° 22.0´ E	**Fl.R.** period 4s fl. 0.5s, ec. 3.5s	26 **8**	7	Metal framework structure; 16.	
15881	-Vrakhos Frouos.	37° 05.9´ N 25° 20.7´ E	**Fl.W.R.** period 5s fl. 0.5s, ec. 4.5s	33 **10**	W. 6 R. 3	White hexagonal hut with column and gallery; 33.	R. 138°-171°, W.-138°.
15884 *N 4295.5*	Akra Kaloterousa.	37° 08.1´ N 25° 49.7´ E	**Fl.(3)W.** period 15s fl. 0.4s, ec. 1.5s fl. 0.4s, ec. 1.5s fl. 0.4s, ec. 10.8s	482 **147**	10	White lantern; 14.	
	NISOS MILOS:						
15888 *N 4246*	-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	White lantern; 13.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			GREECE-KIKLADHES				
15892 *N 4248*	-Nisidhes Ananes.	36° 33.1´ N 24° 08.9´ 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 framework structure; 10.	
15896 *N 4244*	-Nisos Andimilos, Akra Kokhlidi.	36° 47.1´ N 24° 13.2´ E	**Fl.W.** period 2s fl. 0.3s, ec. 1.7s	197 **60**	8	Metal framework structure; 13.	
15900 *N 4240*	-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 *N 4242*	-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; 13.	
15906 *N 4242.2*	--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 structure; 13.	
15908 *N 4242.4*	--Mikobar, jetty, head.	36° 42.5´ N 24° 27.9´ E	**F.R.**	59 **18**	3	Metal column, loading gantry.	
15912 *N 4239*	-Akra Pelekoudha.	36° 46.1´ N 24° 31.7´ E	**Fl.W.** period 2s fl. 0.3s, ec. 1.7s	56 **17**	5	Metal framework structure, white round hut; 16.	
15916 *N 4249*	-Voudhia, jetty, head.	36° 45.0´ N 24° 32.0´ E	**F.R.**	69 **21**	3	Metal column, loading gantry.	
15920 *N 4252*	**-Nisis Poliaigos.**	36° 46.5´ N 24° 39.3´ E	**Fl.W.** period 5s fl. 0.2s, ec. 4.8s	453 **138**	**19**	Round tower, dwelling; 30.	
15924 *N 4250*	-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 structure; 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 *N 4238*	-Ormos Semina.	36° 48.3´ N 24° 35.6´ E	**Fl.G.** period 5s fl. 1s, ec. 4s	36 **11**	5	Metal framework structure; 16.	
15932 *N 4256*	**Nisos Folegandros.**	36° 38.0´ N 24° 51.6´ 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**	Round tower, dwelling; 36.	
15936 *N 4258*	-Ormos Karavostasi, N. entrance point.	36° 37.0´ N 24° 57.2´ E	**Fl.W.R.** period 6s fl. 0.5s, ec. 5.5s	49 **15**	W. 10 R. 7	Metal framework structure; 13.	R. 202°-248°, W.-322°, R.-344°, W.-096°.
15937 *N 4259*	--Mole, head.	36° 37.0´ N 24° 57.0´ E	**Q.G.**	26 **8**	3	Metal framework structure, gallery, metal column, green band; 16.	
15940 *N 4260*	Nisos Sikinos, Ormos Skala, E. entrance point.	36° 40.5´ N 25° 09.0´ E	**Fl.W.** period 5s fl. 1s, ec. 4s	59 **18**	8	Metal framework structure; 13.	
15941 *N 4261*	-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 structure, gallery, metal column; 20.	
15944 *N 4262*	Nisos Ios, Ormos Iou, Akra Fanari.	36° 43.2´ N 25° 15.5´ E	**Fl.W.** period 5s fl. 0.8s, ec. 4.2s	108 **33**	9	Square tower, dwelling; 30.	
15945 *N 4263*	-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 structure, gallery; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			GREECE-KIKLADHES				
15948 *N 4296*	Nisis Mikros Avelos.	36° 49.5´ N 25° 23.6´ 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	Metal framework structure; 10.	
15950 *N 4266.3*	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 structure, gallery, metal column, red band; 20.	
15950.2 *N 4266.31*	--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 structure, gallery, column, green band; 20.	
15952 *N 4266*	**-Akra Akrotiri.**	36° 21.5´ N 25° 21.3´ E	**Fl.W.** period 5s fl. 1.8s, ec. 3.2s	328 **100**	**24**	Square tower, dwelling; 33.	
15954 *N 4266.5*	-Katsouni, breakwater, head.	36° 23.2´ N 25° 25.7´ E	**Fl.G.** period 3s fl. 0.4s, ec. 2.6s	26 **8**	5	Metal framework structure, gallery, metal column, green band; 18.	
15956 *N 4267*	-Nisis Nea Kaimeni.	36° 24.0´ N 25° 24.3´ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	26 **8**	5	Metal framework structure, white round hut; 16.	
15960 *N 4268*	-Thira Skala.	36° 25.0´ N 25° 25.7´ E	**Q.R.**	23 **7**	3	Metal framework structure; 16.	
15964 *N 4269*	-Nikolaos Point.	36° 27.5´ N 25° 22.3´ E	**Fl.G.** period 2s fl. 0.3s, ec. 1.7s	26 **8**	4	Metal framework structure, gallery; 16.	
15968 *N 4270*	-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 structure; 16.	
15969 *N 4275*	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 structure, gallery, metal column, red band; 23.	
15976 *N 4276*	Nisidhes Kristiana, Nisis Eskhati.	36° 13.2´ N 25° 13.7´ E	**Fl.(3)W.** period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	79 **24**	10	Metal framework structure; 10.	
15980 *N 4295.7*	Nisidhes Bouvais, about 37 km. N. of Nisos Amorgos.	37° 14.3´ N 25° 55.7´ E	**Fl.W.** period 8s fl. 1s, ec. 7s	184 **56**	12	Metal framework structure; 13.	
	NISOS AMORGOS:						
15984 *N 4278.4*	-Akra Langadhia.	36° 54.6´ N 25° 57.3´ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	312 **95**	8	Metal framework structure; 10.	
15985 *N 4278.5*	-Aigial, mole, head.	36° 54.1´ N 25° 58.5´ E	**Fl.G.** period 3s fl. 0.4s, ec. 2.6s	20 **6**	5	Metal framework structure, gallery, metal column.	
15988 *N 4278*	-Ormos Katapola, Akra Ayios Ilias.	36° 50.2´ N 25° 50.5´ E	**Fl.(2)W.** period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	151 **46**	12	Metal framework structure, white round hut; 18.	
15992 *N 4277.5*	-Nisis Grabousa.	36° 49.1´ N 25° 44.7´ E	**Fl.W.** period 1.5s fl. 0.3s, ec. 1.2s	45 **14**	5	Metal framework structure; 13.	
15996 *N 4277*	-Akra Korax.	36° 46.0´ N 25° 48.0´ E	**Fl.W.** period 8s fl. 1s, ec. 7s	249 **76**	11	Metal framework structure; 10.	
16000 *N 4279*	Nisidhes Liadhi, northernmost islet.	36° 54.4´ N 26° 09.9´ E	**Fl.(2)W.** period 20s fl. 1s, ec. 2s fl. 1s, ec. 16s	214 **65**	9	Metal framework structure; 13.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			GREECE-KIKLADHES				
16004 *N 4280*	Nisis Levitha, Akra Spano.	36° 59.9´ N 26° 29.8´ E	**L.Fl.W.** period 10s fl. 2s, ec. 8s	88 **27**	11	Metal framework structure; 16.	
			GREECE-KRITI (CRETE)				
16008 *N 4780*	**Nisis Agria Gramvousa.**	35° 38.9´ N 23° 34.7´ E	**Fl.W.R.** period 10s fl. 0.3s, ec. 9.7s	354 **108**	W. **17** R. 13	White lantern; 13.	W. 330°-239°, R.-255°, W.-319°.
16010 *N 4780.4*	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 framework tower, gallery, column, green band; 16.	
16010.5 *N 4780.5*	-SW. mole, head.	35° 30.9´ N 23° 38.3´ E	**Fl.R.** period 2s fl. 0.3s, ec. 1.7s	30 **9**	3	Metal framework tower, gallery, column, red band; 20.	
16011 *N 4780.6*	-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 structure, gallery, metal column, green band.	
16011.5 *N 4780.7*	--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 structure, gallery, metal column, red band.	
16012 *N 4781*	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 *N 4783*	Akra Maleka.	35° 35.2´ N 24° 10.4´ E	**Fl.(2)W.** period 12s fl. 1s, ec. 2s fl. 1s, ec. 8s	156 **48**	10	Metal framework tower; 20.	
16036 *N 4784*	**Akra Dhrapanon.**	35° 28.4´ N 24° 14.4´ E	**Fl.(3)W.** period 15s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 10.2s	184 **56**	**20**	White octagonal tower, dwelling; 33.	Visible 066°-324°.
	ORMOS SOUDHAS:						
16040 *N 4786*	-Nisis Soudhas, fortress, S. part.	35° 29.2´ N 24° 09.1´ E	**Fl.G.** period 4.8s fl. 0.8s, ec. 4s	66 **20**	6	White pyramidal structure, green band; 16.	Visible 245°-120°.
16041 *N 4787.1*	-Soudha, pier, head.	35° 29.5´ N 24° 04.7´ E	**F.R.**	20 **6**	4	White metal column, red band; 16.	
16056 *N 4788*	-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 *N 4788.5*	-Jetty head, 0.9 mile W. of Vlite pier.	35° 30.2´ N 24° 04.4´ E	**2 F.G.** (vert.)	26 **8**	3	White metal column, green band; 26.	1 meter apart.
16064 *N 4790*	Limin Rethimnis, N. mole, head.	35° 22.4´ N 24° 29.0´ E	**Fl.G.** period 3s fl. 1s, ec. 2s	33 **10**	10	White hexagonal hut, gallery, column, green band; 26.	
16068 *N 4791.4*	-S. mole, head.	35° 22.3´ N 24° 29.0´ E	**Fl.R.** period 4s fl. 1s, ec. 3s	39 **12**	10	White hexagonal hut, gallery, column, red band; 26.	
16072 *N 4782.4*	-Harbor mole, head.	35° 31.1´ N 24° 01.1´ E	**F.G.**	23 **7**	3	White metal column, green band; 26.	
16074 *N 4791.8*	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 tower, gallery, column, green band; 20.	Fl.R. 3s 7m 3M light marks E. mole head.
16075 *N 4793*	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 structure, gallery, column, green band; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			GREECE-KRITI (CRETE)				
16076 *N 4792*	Khondros Kavos.	35° 25.6´ N 24° 42.1´ E	**Fl.W.R.** period 6s fl. 1s, ec. 5s	187 **57**	W. 12 R. 8	White lantern; 16.	R. 050°-097°, W.-270°.
16080 *N 4794*	Akra Stavros.	35° 25.8´ N 24° 58.3´ E	**Fl.(2)W.** period 15s fl. 1s, ec. 2s fl. 1s, ec. 11s	67 **20**	11	Metal framework structure, gallery; 20.	
16084 *N 4796*	Titan cement, loading pier, head.	35° 20.9´ N 25° 02.8´ E	**3 F.R.** (vert.)	46 **14**	3	White metal tower; 33.	1 meter apart.
16085 *N 4795*	Tsimeda, pier, head.	35° 21.1´ N 25° 02.8´ E	**2 F.R.** (vert.)	43 **13**	3	White metal mast, red band; 26.	1 meter apart.
16088 *N 4810*	Nisis Dia, N. point.	35° 27.9´ N 25° 12.9´ E	**L.Fl.W.** period 12s fl. 2s, ec. 10s	102 **31**	9	Metal framework structure; 13.	
16092 *N 4812*	-Akra Stavros (Apiri).	35° 25.6´ N 25° 14.3´ E	**Fl.W.** period 6s fl. 1s, ec. 5s	423 **129**	12	White lantern; 13.	
16096 *N 4813*	Nisis Avgo.	35° 36.1´ N 25° 34.4´ E	**Fl.W.** period 5s fl. 1s, ec. 4s	188 **57**	9	Metal framework tower; 13.	Visible 288°-275°.
	LIMIN IRAKLIOU:						
16098 *N 4797.4*	-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 structure, gallery, metal column, green band.	
16098.1 *N 4797.6*	--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 structure, gallery, metal column, red band.	
16100 *N 4798*	-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, gallery, column, green band; 36.	F.R. on radio tower 0.85 mile SE.
16104 *N 4800*	-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, building; 33.	
16120 *N 4808*	-AVIATION LIGHT.	35° 20.2´ N 25° 10.6´ E	**Al.W.G.** period 4s	187 **57**	**15**	Control tower.	
16121 *N 4813.3*	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, metal column, green band.	
16121.5 *N 4813.31*	-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, metal column, red band.	
16122 *N 4813.5*	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, column, green band; 28.	
16123 *N 4813.7*	Milatos, N. mole.	35° 19.2´ N 25° 33.7´ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	20 **6**	3	Metal framework structure; 13.	Fl.R. 3s 3M marks S. mole.
16124 *N 4814*	Akra Ayios Ioannis.	35° 20.4´ N 25° 46.3´ E	**Fl.(2)W.** period 12.8s fl. 0.8s, ec. 3s fl. 0.8s, ec. 8.2s	160 **49**	11	Structure, lantern; 30.	
	KOLPOS MERABELLOU:						
16127 *N 4815*	-Mirampello, W. mole.	35° 12.6´ N 25° 42.9´ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	26 **8**	3	Metal framework structure, gallery, metal column, green band.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			GREECE-KRITI (CRETE)				
16127.1 *N 4815.1*	--E. mole.	35° 12.6´ N 25° 42.9´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	26 **8**	3	Metal framework structure, gallery, metal column, red band.	
16128 *N 4816*	-Nisis Ayioi Pandes.	35° 12.2´ N 25° 43.9´ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	79 **24**	4	White metal framework structure, dwelling; 23.	
16132 *N 4818*	--Pier, jetty, head.	35° 11.6´ N 25° 43.2´ E	**Fl.R.** period 2s fl. 0.8s, ec. 1.2s	33 **10**	7	White hexagonal hut, gallery, column, red band; 26.	
16136 *N 4819*	-Nisis Konidha.	35° 07.5´ N 25° 48.6´ E	**L.Fl.W.** period 10s fl. 2s, ec. 8s	82 **25**	4	Metal framework structure, white round hut; 16.	
16138 *N 4819.5*	-Ormos Altsi, pier, head.	35° 11.0´ N 25° 54.0´ E	**F.R.**	43 **13**	3	Metal mast, red band.	Private light.
	ORMOS SITIAS:						
16140 *N 4820*	-Akra Vamvakia.	35° 13.5´ N 26° 06.8´ E	**Fl.(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 structure; 16.	
16143 *N 4821*	-N. mole, head.	35° 12.7´ N 26° 06.8´ E	**Fl.G.** period 3s fl. 0.6s, ec. 2.4s	30 **9**	8	Metal framework structure, gallery, metal column, green band; 23.	
16145 *N 4822*	-Marina, N. mole, head.	35° 12.5´ N 26° 06.6´ E	**F.G.**	26 **8**	3	White metal column, green band.	
16146 *N 4822.5*	--S. mole, head.	35° 12.5´ N 26° 06.6´ E	**F.R.**	16 **5**	3	White metal column, red band; 10.	
16152 *N 4824*	Nisis Paximadha, Kriti, off E. point.	35° 23.0´ N 26° 10.4´ E	**Fl.W.R.** period 6s fl. 1s, ec. 5s	118 **36**	W. 12 R. 8	Metal framework structure; 10.	W. 019°-284°, R.-314°.
16156 *N 4824.5*	Nisis Yianisadha, islet, SE. point.	35° 19.5´ N 26° 11.2´ E	**Fl.W.R.** period 10s fl. 0.5s, ec. 9.5s	46 **14**	W. 7 R. 5	Metal framework structure; 10.	W. 213°-275°, R.-280°, W.-304°, R.-310°, W.-052°.
16160 *N 4826*	**Akra Sidheros.**	35° 18.9´ N 26° 18.7´ E	**Fl.W.** period 10s fl. 1s, ec. 9s	148 **45**	**18**	Round tower, dwelling; 52.	
16164 *N 4825*	Kiriamadi, on rock.	35° 18.0´ N 26° 15.8´ E	**Fl.W.R.** period 3s fl. 0.3s, ec. 2.7s	39 **12**	W. 4 R. 3	Metal framework structure; 13.	R. 149°-156°, W.-308°, R.-357°, W.-149°.
16168 *N 4825.5*	--Pier, head.	35° 18.0´ N 26° 18.0´ E	**2 F.R.** (vert.)	29 **9**	3	White metal framework structure, red band; 26.	1 meter apart.
16170 *N 4827*	Kouremenos Bay.	35° 13.0´ N 26° 16.3´ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	26 **8**	3	Metal framework structure, square hut, gallery, green band; 26.	
16172 *N 4828*	Akra Plaka.	35° 11.7´ N 26° 19.0´ E	**Fl.(2)W.** period 12s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 8.5s	72 **22**	10	Metal framework structure; 13.	
16176 *N 4830*	Koufonisi.	34° 56.0´ N 26° 08.5´ E	**Fl.(2)W.** period 16s fl. 1s, ec. 2s fl. 1s, ec. 12s	239 **73**	10	Metal framework structure; 16.	
16180 *N 4829*	Nisidhes Kavalloi.	35° 01.6´ N 26° 13.7´ 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 structure; 13.	
16182 *N 4830.5*	Makrys Gyalos Bay.	35° 02.2´ N 25° 58.2´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	20 **6**	3	Metal framework structure, round hut, red band.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			GREECE-KRITI (CRETE)				
16184 *N 4831*	Ierapetra, breakwater, head.	35° 00.3´ N 25° 44.1´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	30 **9**	4	White hexagonal hut, gallery, column, red band.	
16188 *N 4833*	Akra Theofalos.	34° 59.1´ 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 structure, white round hut; 16.	
16192 *N 4832*	Nisis Khrisi.	34° 52.8´ N 25° 41.6´ E	**Fl.(2)W.** period 12s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 8.5s	39 **12**	10	Metal framework structure, white round hut; 16.	
16196 *N 4833.6*	Nisis Megalonis.	34° 55.4´ N 24° 47.9´ 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 pyramidal structure, gallery; 20.	
16202 *N 4833.7*	-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 structure, gallery, red band.	
16204 *N 4836*	Ayios Galinis, on mole.	35° 05.7´ N 24° 41.4´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	33 **10**	3	Metal framework structure, gallery, red band; 20.	
16208 *N 4840*	Nisos Gavdos, Akra Tripiti.	34° 48.1´ N 24° 07.3´ E	**Fl.(2)W.** period 16s fl. 1s, ec. 2s fl. 1s, ec. 12s	121 **37**	12	Metal framework structure; 20.	
16212 *N 4838*	Nisis Gavodhopoula, NW. point.	34° 56.3´ N 23° 59.3´ E	**Fl.W.** period 8s fl. 1s, ec. 7s	183 **56**	12	Metal framework structure; 13.	
16213 *N 4840.8*	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 structure, gallery, metal column, green band.	
16213.1 *N 4840.7*	-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 structure, gallery, metal column, red band.	
16216 *N 4842*	Nisis Loutron.	35° 11.7´ N 24° 05.1´ E	**L.Fl.W.** period 10s fl. 2s, ec. 8s	56 **17**	6	Metal framework structure; 13.	
16220 *N 4844*	Nisis Palaiokhoras.	35° 13.2´ N 23° 40.3´ E	**Fl.W.** period 8s fl. 1s, ec. 7s	52 **16**	8	White pyramidal structure, gallery; 18.	
16224 *N 4778*	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	White metal framework tower, gallery; 49.	
16226 *N 4779*	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 structure, gallery, metal column, green band.	
			GREECE				
	KOLPOS PETALION:						
16228 *N 4451*	**-Nisis Mandili.**	37° 55.8´ N 24° 31.7´ 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 *N 4345.2*	--Inner pier, head.	38° 00.8´ N 24° 25.1´ E	**2 F.R.** (vert.)	26 **8**	3	White metal column; 20.	1 meter apart.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			GREECE				
16240 *N 4346*	-Nisis Paximadhi.	37° 57.4´ N 24° 23.2´ E	**Fl.W.** period 5s fl. 0.4s, ec. 4.6s	89 **27**	4	Metal framework structure, white square hut; 18.	
16244 *N 4348*	-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	Metal framework structure; 18.	
16252 *N 4346.4*	Raftis.	37° 52.9´ N 24° 02.6´ E	**Fl.W.** period 2s fl. 0.5s, ec. 1.5s	328 **100**	9	Metal framework structure; 23.	
16256 *N 4347*	-Akra Velani.	37° 59.3´ N 24° 02.2´ E	**Fl.W.** period 1.5s fl. 0.2s, ec. 1.3s	23 **7**	4	Column, white round hut; 20.	
16263 *N 4347.3*	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 structure, gallery, metal column, red band.	
16264 *N 4347.6*	-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, gallery, column, green band; 26.	
16265 *N 4347.8*	-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 structure, gallery, metal column, green band; 16.	
16266 *N 4349.5*	-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 *N 4350*	-Nisis Dhipsa.	38° 06.7´ N 24° 07.0´ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	56 **17**	6	White round hut; 20.	
16269 *N 4351*	-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 structure, gallery, metal column, green band.	
16270 *N 4351.3*	-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 structure, gallery, metal column, green band.	
	NOTIOS EVVOIKOS KOLPOS:						
16272 *N 4354*	-Nisidhes Verdhouyi, NW. islet.	38° 11.4´ N 24° 05.6´ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	56 **17**	6	White metal framework structure; 10.	Obscured by Pathenopi Islet.
16276 *N 4350.3*	-Kouneli Islet.	38° 11.3´ N 24° 10.2´ E	**Fl.W.R.** period 1.5s fl. 0.3s, ec. 1.2s	33 **10**	W. 5 R. 3	Metal framework structure, white square hut; 20.	W. 100°-290°, R.-317°.
16280 *N 4352*	--SE. islet.	38° 11.0´ N 24° 06.5´ E	**Fl.(2)W.** period 16s fl. 0.3s, ec. 1.2s fl. 0.3s, ec. 14.2s	33 **10**	6	Metal framework structure; 18.	
16284 *N 4355*	-Akra Ayios Marina.	38° 12.0´ N 24° 04.4´ 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 structure; 23.	
16285 *N 4356*	--Pier, head.	38° 11.4´ N 24° 04.0´ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	26 **8**	4	White metal column, gallery, round hut, green band; 23.	
16286 *N 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 *N 4359.3*	-Ormos Boufalo.	38° 18.1´ N 24° 07.1´ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	23 **7**	3	Metal framework structure, gallery, metal column, green band.	
16288 *N 4358*	-Ormos Aliveriou, breakwater, head.	38° 23.7´ N 24° 02.1´ E	**Fl.R.** period 1.5s fl. 0.2s, ec. 1.3s	24 **7**	3	Black post; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			GREECE				
16289 *N 4357*	--Power station, mole, head.	38° 23.4´ N 24° 02.8´ E	**Fl.G.** period 4s fl. 1s, ec. 3s	33 **10**	7	Hexagonal concrete hut, gallery, column, green band; 26.	
16292 *N 4359*	-Milaki, pier, head.	38° 22.5´ N 24° 03.1´ E	**2 F.R.** (vert.)	29 **9**	5	White metal column, red band; 18.	Private light.
16294 *N 4359.5*	-Ormos Ayios Apostoloi, mole, head.	38° 17.7´ N 23° 53.9´ E	**F.R.**	26 **8**	2	White metal column, red band; 20.	
16295 *N 4359.75*	-Amarinthos, mole, head.	38° 23.4´ N 23° 52.6´ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	23 **7**	3	Metal framework structure, gallery, metal column, green band; 20.	
16296 *N 4360*	-Ormos Oropou, Skala Oropou.	38° 19.7´ N 23° 48.4´ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	16 **5**	7	Lantern; 13.	
16300 *N 4361*	--Oropos, pier, head.	38° 19.3´ N 23° 47.5´ E	**3 F.Or.**	23 **7**	1	White metal column; 20.	Lights in shape of triangle point down.
16304 *N 4362*	-Limin Eretrias (Nea Psara), on rock near head of mole, NW. side of entrance.	38° 23.0´ N 23° 47.5´ E	**Fl.W.R.** period 1.5s fl. 0.3s, ec. 1.2s	23 **7**	W. 5 R. 3	Metal framework structure, white round hut; 16.	W. 342°-061°, R.-342°.
16308 *N 4366*	-Stenon Avlidhos, Akra Avlis.	38° 24.6´ N 23° 37.9´ E	**Fl.(2)W.** period 12s fl. 1s, ec. 1s fl. 1s, ec. 9s	30 **9**	6	Stone tower, dwelling.	
16310 *N 4369*	-Ormos Megalo Vathi, pier, head.	38° 25.1´ N 23° 35.7´ E	**2 F.R.** (vert.)	20 **6**		Column; 13.	Private light.
16311 *N 4369.4*	-Khalkidha Shipyard, pier, head.	38° 25.4´ N 23° 36.2´ E	**3 F.R.** (vert.)	23 **7**	3	White metal mast, red band; 16.	1 meter apart. Private light.
16312 *N 4368*	-Nisis Passas.	38° 25.7´ N 23° 37.0´ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	30 **9**	5	Metal framework structure; 20.	Visible 313°-168°.
16316 *N 4370*	-Akra Perama.	38° 26.6´ N 23° 35.9´ E	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s	36 **11**	5	Metal framework structure, white square hut, red band; 20.	
16317 *N 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 *N 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 *N 4375*	-Ikhinos Scala, strait, N. entrance, W. side.	38° 28.3´ N 23° 35.6´ E	**Fl.G.** period 2s fl. 0.3s, ec. 1.7s	26 **8**	3	White hexagonal hut, column, green band; 23.	
16328 *N 4378*	-Kakokefali.	38° 28.6´ N 23° 36.2´ E	**Fl.(2)W.** period 18s fl. 0.2s, ec. 5.8s fl. 0.2s, ec. 11.8s	68 **21**	12	Square tower, dwelling; 36.	
16332 *N 4380*	-Nea Artaki.	38° 30.8´ N 23° 37.7´ E	**Fl.W.** period 1.5s fl. 0.3s, ec. 1.2s	30 **9**	5	White hexagonal hut, column; 23.	
16336 *N 4382*	-Akra Mnima.	38° 34.6´ N 23° 31.9´ E	**Fl.W.** period 3.5s fl. 0.3s, ec. 3.2s	33 **10**	6	Hexagonal hut, gallery, column, pedestal; 36.	
16340 *N 4408*	-Larimna.	38° 34.0´ N 23° 17.4´ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	26 **8**	5	Metal framework structure, white round hut; 20.	
16341 *N 4408.5*	--Quay, W. head.	38° 34.1´ N 23° 17.8´ E	**Fl.R.** period 5s fl. 1s, ec. 4s	39 **12**	9	Pyramidal structure, red band; 33.	
16344 *N 4409*	-Akra Stalamata.	38° 38.5´ N 23° 18.6´ E	**Fl.(2)W.** period 8s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	50 **15**	7	Metal framework structure, white square hut; 26.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			GREECE				
16348 *N 4409.4*	-Ormos Limnis, W. point.	38° 45.8´ N 23° 18.7´ E	**Fl.W.** period 1.5s fl. 0.3s, ec. 1.2s	85 **26**	5	White round hut, column; 13.	
16352 *N 4412*	-Nisis Atalandi, N. point.	38° 41.0´ N 23° 05.5´ E	**Fl.W.** period 1.5s fl. 0.3s, ec. 1.2s	33 **10**	5	Metal framework structure; 13.	
16353 *N 4413.4*	--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 structure, gallery, metal column, green band; 20.	
16356 *N 4413*	-Skala Livanates.	38° 42.4´ N 23° 03.8´ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	26 **8**	3	Metal framework structure, gallery, green band.	
16360 *N 4416*	**-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 *N 4417*	--Ormos Yialtrou.	38° 52.4´ N 22° 58.8´ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	23 **7**	5	Metal framework structure, white round hut; 16.	
16374 *N 4416.5*	-Loutra Aidhipsou, on center of ramp.	38° 51.3´ N 23° 02.5´ E	**3 F.Or.**	20 **6**	3	White metal column.	Lights form triangle point down.
	DHIAVLOS KNIMIDHOS:						
16375 *N 4423*	-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 structure, gallery, metal column, red band; 18.	
16375.2 *N 4423.1*	--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 structure, gallery, metal column, green band; 18.	
16376 *N 4422*	-Akra Knimis.	38° 47.3´ N 22° 49.5´ E	**Fl.W.R.** period 2s fl. 0.4s, ec. 1.6s	20 **6**	W. 6 R. 3	Metal framework structure, white round hut; 18.	W. 098°-140°, R.-230°, W.-278°.
16377 *N 4418*	--S. breakwater, head.	38° 45.0´ N 22° 51.0´ E	**F.G.**	23 **7**	7	Concrete column, green band.	
16378 *N 4418.5*	--Quay, N. head.	38° 45.6´ N 22° 51.6´ E	**3 F.G.**	20 **6**	3	Concrete column, green band.	Lights form inverted L.
16379 *N 4418.7*	--Motel Levedi, mole, head.	38° 26.0´ N 22° 51.0´ E	**F.G.**	16 **5**	3	White concrete column, green band; 10.	Private light.
16380 *N 4420*	-Nisoi Likhadnes, Nisis Strongili, summit.	38° 48.5´ N 22° 49.3´ E	**Fl.(2)W.R.** period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	134 **41**	W. 12 R. 9	Round tower, dwelling; 33.	R. 113°-293°, W.-113°.
16382 *N 4423.5*	-Agios Serafeim, fishing harbour, SE end.	38° 49.7´ N 22° 42.8´ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	26 **8**	3	Metal framework structure, gallery, metal column, green band; 20.	
16382.2 *N 4423.52*	---NW end.	38° 49.7´ N 22° 42.7´ E	**Q.G.**	26 **8**	3	Metal framework structure, gallery, metal column, green band; 20.	
	MALIAKOS KOLPOS:						
16384 *N 4430*	-Akra Dhrepanon.	38° 52.1´ N 22° 45.5´ E	**Fl.W.** period 6s fl. 1s, ec. 5s	23 **7**	5	Metal framework structure; 16.	
16388 *N 4424*	-Akra Khiliomili.	38° 51.1´ 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	Round metal tower, dwelling; 28.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			GREECE				
16392 *N 4427*	-Ormos Stilidhas, on quay.	38° 54.7´ N 22° 37.0´ E	**L.Fl.Or.** period 10s fl. 2s, ec. 8s	36 **11**	8	White metal tower, gallery, orange triangular daymark point down; 33.	Visible 300°-330°.
16396 *N 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 structure; 10.	
16400 *N 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 structure; 10.	
16404 *N 4425*	-Ormos Ayios Marinas, pier, head.	38° 53.4´ N 22° 34.8´ E	**F.R.**	85 **26**	3	White metal mast, red band; 7.	Private light.
16406 *N 4433*	Agronivest Quay, SE. head.	38° 53.3´ N 22° 49.5´ E	**3 F.G.**	36 **11**	3	White metal column, green band; 26.	Lights form inverted L.
16407 *N 4433.2*	--NW. head.	38° 53.0´ N 22° 49.0´ E	**3 F.R.**	36 **11**	3	White metal column, red band; 26.	Lights form inverted L.
16408 *N 4432*	-Akra Vasilinas, channel, S. entrance.	38° 52.2´ N 22° 51.0´ E	**Oc.W.G.** period 5s lt. 4s, ec. 1s	30 **9**	W. 14 G. 11	Square tower, dwelling; 33.	G. 025°-041°, W.-252°.
16410 *N 4433.5*	-St. Sostis Point.	38° 56.7´ N 22° 59.2´ E	**Fl.W.** period 8s fl. 1s, ec. 7s	52 **16**	6	White round hut; 10.	
16412 *N 4434*	-Ifalos Oreon.	38° 57.1´ N 23° 02.9´ E	**Fl.(2)W.** period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 9.5s	16 **5**	9	ISOLATED DANGER BRB, beacon, topmark; 18.	
16416 *N 4436*	-Skala Oreon, N. pier, head.	38° 56.9´ N 23° 05.3´ E	**Fl.R.** period 1.5s fl. 0.3s, ec. 1.2s	23 **7**	3	White round hut, column, red band; 17.	
16417 *N 4435*	-Neos Pyrgos, mole, head.	38° 56.4´ N 23° 04.1´ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	23 **7**	3	Metal framework structure, gallery, metal column, green band; 20.	
16420 *N 4440*	**-Aryironisos.**	39° 00.5´ N 23° 04.6´ E	**Fl.W.** period 5s fl. 0.1s, ec. 4.9s	105 **32**	**16**	Round tower, dwelling; 23.	
16421 *N 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 structure, gallery, metal column, red band.	
16422 *N 4441*	-Pefki, mole, head.	39° 00.5´ N 23° 12.1´ E	**Fl.R.** period 2s fl. 0.3s, ec. 1.7s	23 **7**	3	Metal framework structure, gallery, metal column, red band; 20.	
	NISOS EVVOIA:						
16424 *N 4451.3*	-Akra Kafirevs, Nisis Arapis.	38° 09.6´ N 24° 36.0´ E	**Fl.(2)W.** period 15s fl. 1s, ec. 3s fl. 1s, ec. 10s	112 **34**	10	Metal framework structure; 7.	
16428 *N 4451.6*	-Ormos Petrion, entrance, N. side.	38° 24.4´ N 24° 12.4´ E	**Fl.W.** period 5s fl. 1s, ec. 4s	131 **40**	4	Metal framework structure; 13.	
16432 *N 4453*	Nisis Prasoudha.	38° 39.9´ N 24° 15.0´ E	**Fl.W.** period 5s fl. 1s, ec. 4s	138 **42**	13	Round tower, dwelling; 59.	
16436 *N 4452*	-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**	3	White hexagonal hut, column, red band; 20.	
16437 *N 4452.2*	--E. mole, head.	38° 37.6´ N 24° 07.6´ E	**Fl.G.** period 1.5s fl. 0.3s, ec. 1.2s	16 **5**	2	White round hut, pedestal, green band; 10.	Visible 353°-183°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			GREECE				
16438 *N 4452.08*	---S. head.	38° 37.1´ N 24° 07.8´ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	26 **8**	6	Metal framework structure, gallery, metal column, green band; 20.	
16441 *N 4452.3*	-Ag. Grigorios, Khillis harbor.	38° 39.8´ N 24° 07.7´ E	**Fl.W.** period 2s fl. 0.3s, ec. 1.7s	30 **9**	5	Metal framework structure; 10.	
16442 *N 4453.2*	Akra Sarakiniko.	38° 46.0´ N 23° 42.2´ E	**Fl.W.** period 8s fl. 1s, ec. 7s	85 **26**	8	White metal column; 7.	
	NISOI VORIAI SPORADHES:						
16443 *N 4453.9*	-Akhili Marina, N. mole, head.	38° 52.4´ N 24° 34.6´ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	23 **7**	3	Metal framework structure, gallery, metal column, green band.	
16443.1 *N 4453.91*	--S. mole, head.	38° 52.4´ N 24° 34.6´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	23 **7**	3	Metal framework structure, gallery, metal column, red band.	
16444 *N 4454*	**-Akra Lithari.**	38° 46.6´ N 24° 40.9´ 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.	
16445 *N 4454.1*	-Treis Boukes.	38° 45.9´ N 24° 37.0´ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	26 **8**	6	Metal framework structure, green band.	
16446 *N 4454.2*	-Sarakino Island.	38° 45.5´ N 24° 37.5´ E	**Fl.W.** period 4s fl. 0.4s, ec. 3.6s	207 **63**	7	Metal framework structure; 13.	Visible 140°-313°.
16447 *N 4454.5*	-Marmara Point.	38° 45.6´ N 24° 34.2´ E	**Fl.(2)W.** period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	30 **9**	7	Metal framework structure; 13.	
16448 *N 4455*	--Akra Latomion.	38° 48.0´ N 24° 29.6´ E	**Fl.W.** period 3.3s fl. 0.4s, ec. 2.9s	59 **18**	5	Lantern; 13.	
16452 *N 4455.3*	--Ormos Linaria.	38° 50.7´ N 24° 32.2´ E	**Fl.W.R.G.** period 2.5s fl. 0.3s, ec. 2.2s	23 **7**	W. 6 R. 4 G. 4	Metal framework structure, round hut; 20.	R. 353°-021°, W.-120°, G.-300°.
16456 *N 4455.7*	--Podhi, Vrakhonisis Notio.	39° 00.4´ N 24° 29.2´ E	**Fl.W.** period 3s fl. 0.4s, ec. 2.6s	233 **71**	6	White round hut; 10.	
16460 *N 4455.5*	--Nisis Vorio Podhi.	39° 01.2´ N 24° 28.1´ E	**Fl.W.** period 10s fl. 1s, ec. 9s	138 **42**	6	Metal framework structure, white round hut; 20.	
16464 *N 4482*	**-Nisis Psathoua.**	39° 30.2´ N 24° 11.1´ E	**Fl.W.** period 10s fl. 0.3s, ec. 9.7s	131 **40**	**17**	Round tower, dwelling; 82.	
16468 *N 4480*	-Nisis Pelerissa, SW. of Nisos Pelagos.	39° 18.7´ N 24° 02.4´ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	82 **25**	7	Metal framework structure, white round hut; 18.	
16468.1 *N 4478.6*	-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 structure, gallery, metal column, red band.	
16469 *N 4479*	-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 *N 4478.52*	-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 structure, gallery, green band; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			GREECE				
16471 *N 4478.5*	--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 structure, gallery, red band; 16.	
16472 *N 4478*	-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; 13.	Visible 293°-171°.
16476 *N 4476*	-Nisis Mikro.	39° 08.7´ N 23° 48.8´ E	**Fl.W.** period 4s fl. 0.4s, ec. 3.6s	69 **21**	6	White lantern; 13.	
16477 *N 4475.2*	-Agnonta Bay, W. side.	39° 05.0´ N 23° 42.4´ E	**Fl.R.** period 2s fl. 0.2s, ec. 1.8s	23 **7**	3	White framework structure, gallery, metal column, red band.	
16478 *N 4475.22*	--E. side.	39° 04.8´ N 23° 42.5´ E	**Fl.G.** period 2s fl. 0.2s, ec. 1.8s	33 **10**	3	White hexagonal hut, gallery, column, green band; 29.	
	-Nisos Skopelos:						
16480 *N 4474*	**--Akra Gourouni.**	39° 12.3´ N 23° 35.5´ 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 tower, dwelling; 47.	
16484 *N 4475*	--Glossa, N. mole, head.	39° 09.9´ N 23° 36.8´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	20 **6**	3	Metal framework structure; 14.	
16484.5 *N 4475.1*	---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 structure, gallery, metal column; 11.	
16486 *N 4475.15*	--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 structure, gallery, metal column, red band.	
16486.5 *N 4475.16*	---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 structure, gallery, metal column, green band.	
16492 *N 4475.4*	---N. breakwater.	39° 07.5´ N 23° 44.1´ E	**Fl.G.** period 2s fl. 0.3s, ec. 1.7s	23 **7**	6	Metal framework structure, gallery, metal column, green band.	
16496 *N 4472*	-Dhiavlos Skopelou, Nisis Repion.	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°.
16500 *N 4466*	-Nisos Skiathos, Prasoniso.	39° 08.3´ N 23° 28.1´ E	**Fl.W.** period 6s fl. 0.5s, ec. 5.5s	43 **13**	6	Metal framework structure; 23.	
16504 *N 4468*	--Dhaskalonisi.	39° 09.6´ N 23° 29.8´ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	33 **10**	5	Metal framework structure; 15.	
16505 *N 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 structure, gallery, red band; 20.	
	NISOS EUVOIA:						
16508 *N 4453.5*	-Mandoudi, loading pier, head.	38° 48.5´ N 23° 31.6´ E	**2 F.R.** (horiz.)	118 **36**	3	White metal column.	Private light.
16512 *N 4456*	-Levkonisia.	38° 57.5´ N 23° 27.2´ 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 structure, white round hut; 18.	Visible 138°-018°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			GREECE				
16516 *N 4458*	**-Akra Artemision.**	39° 03.0´ N 23° 20.3´ 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	Round tower, dwelling; 62.	W. 077°-178°, W. 187°-194°, R.-234°, W.-317°.
	DHIAVLOS SKIATHOU:						
16520 *N 4464*	-Akra Sipias.	39° 11.2´ N 23° 21.1´ E	**L.Fl.W.** period 10s fl. 2s, ec. 8s	344 **105**	10	Lantern; 13.	
16524 *N 4462*	-Ifalos Levkari.	39° 08.6´ N 23° 20.5´ 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 *N 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 structure, gallery, metal column, green band.	
	PAGASITIKOS KOLPOS:						
16528 *N 4442*	**-Akra Kavoulia.**	39° 05.7´ N 23° 03.1´ E	**L.Fl.(3)W.** period 20s fl. 2s, ec. 3s fl. 2s, ec. 3s fl. 2s, ec. 8s	72 **22**	**20**	Square tower, dwelling; 46.	
16528.1 *N 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 framework structure, gallery, metal column, green band.	
16529 *N 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 structure, gallery, metal column, red band; 16.	
16530 *N 4444*	-Ormos Sourpis, pier, head.	39° 10.3´ N 22° 51.1´ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	26 **8**	5	White metal framework structure, gallery, green band; 20.	
16532 *N 4445.5*	-Mamidhakis, pier, head.	39° 17.5´ N 22° 52.6´ E	**2 F.R.** (vert.)	16 **5**	3	White metal column, red band; 16.	1 meter apart. Private light.
	-Kolpos Volos:						
16544 *N 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	Metal framework structure, white square hut; 26.	
16548 *N 4449*	-Limin Volou, oil installation pier, head.	39° 21.0´ N 22° 59.4´ E	**3 F.G.** (vert.)	30 **9**	3	White metal column, green band; 22.	1 meter apart. Private light.
16552 *N 4449.4*	--Tsimenta, pier, head.	39° 21.0´ N 22° 59.2´ E	**Fl.(2)W.** period 10s fl. 1s, ec. 1s fl. 1s, ec. 7s	59 **18**	12	White hexagonal hut, gallery, column; 26.	
16553 *N 4449.5*	-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 structure, gallery, metal column, red band.	
16554 *N 4448*	-Anavros River.	39° 20.9´ N 22° 57.8´ E	**Fl.Y.** period 2s fl. 0.3s, ec. 1.7s	23 **7**	4	Metal column; 10.	
16556 *N 4447*	--Limin Volou, breakwater, head.	39° 21.1´ N 22° 56.5´ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	27 **8**	4	Metal framework structure, white square hut, green band; 20.	
16557 *N 4447.1*	--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 structure, gallery, red band.	
16558 *N 4485*	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 framework structure, gallery, metal column, green band.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			GREECE				
16559 *N 4485.1*	-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 structure, gallery, metal column, red band.	
	THERMAIKOS KOLPOS:						
16559.1 *N 4486*	-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 structure, gallery, metal column, red band.	
16559.2 *N 4486.5*	--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 structure, gallery, metal column, green band.	
16560 *N 4489*	-Akra Dhermatas.	39° 48.0´ N 22° 51.1´ E	**Fl.(2)W.** period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	246 **75**	11	White metal framework structure, gallery; 13.	
16564 *N 4492*	-Stomion, Tsayezi, reef.	39° 52.0´ N 22° 44.2´ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	26 **8**	5	Metal framework structure; 10.	
16565 *N 4492.2*	--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 structure, gallery, metal column, green band.	
16565.5 *N 4492.3*	--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 structure, gallery, metal column.	
16568 *N 4494*	-Akra Epanomi.	40° 22.5´ N 22° 53.4´ 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 structure; 29.	
16572 *N 4496*	-Akra Akheradha.	40° 21.8´ N 22° 39.7´ E	**Fl.W.** period 5s fl. 1s, ec. 4s	39 **12**	10	Metal framework structure, gallery, white pyramidal structure; 30.	
16576 *N 4498*	**-Akra Megalo Emvolon.**	40° 30.1´ N 22° 49.0´ E	**Fl.W.** period 10s fl. 0.2s, ec. 9.8s	102 **31**	**15**	Round tower, dwelling; 33.	
16580 *N 4496.5*	--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 *N 4496.57*	---Ichthyoskala, N. mole, head.	40° 27.5´ N 22° 51.4´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	30 **9**	3	Metal framework structure, gallery, metal column, red band; 20.	
16580.6 *N 4496.58*	----S. mole, head.	40° 27.5´ N 22° 51.4´ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	26 **8**	3	Metal framework structure, gallery, metal column, green band; 20.	
16581 *N 4496.6*	---W. breakwater, head.	40° 27.7´ N 22° 51.2´ E	**Fl.G.** period 2s fl. 0.2s, ec. 1.8s	30 **9**	3	Hexagonal hut, gallery, column; 26.	
16581.5 *N 4496.7*	---E. breakwater, head.	40° 27.7´ N 22° 51.3´ E	**Fl.R.** period 2s fl. 0.2s, ec. 1.8s	33 **10**	3	Metal framework structure, gallery, metal column; 26.	
16584 *N 4497*	**-Nisis Axios (Kavoura).**	40° 30.7´ 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 structure, building.	
	-RACON		**X(– • • –)**		7		(3 & 10cm).
16588 *N 4500*	-AVIATION LIGHT.	40° 31.5´ N 22° 58.6´ E	**Al.W.G.** period 6s	33 **10**	13	Control tower.	
16592 *N 4501*	-Mooring island.	40° 32.4´ N 22° 57.9´ E	**F.R.**	13 **4**	3	Metal column, platform, piles.	F.Y. mark overhead cable.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			GREECE				
16596 *N 4502*	-Akra Mikro Emvolon.	40° 35.0´ N 22° 56.1´ 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 structure, white square hut, green band; 20.	
16598 *N 4502.41*	--Outer pier, head.	40° 34.6´ N 22° 56.2´ E	**F.W.**				
16599 *N 4502.7*	--Scout's jetty.	40° 34.7´ N 22° 56.3´ E	**F.G.**	13 **4**	3	White metal column, green band; 13.	
16600 *N 4502.3*	--W. breakwater, head.	40° 34.5´ N 22° 56.5´ E	**Fl.G.** period 2s fl. 0.5s, ec. 1.5s	26 **8**	5	White hexagonal hut, gallery, column, green band; 23.	
16604 *N 4502.4*	--E. breakwater, head.	40° 34.3´ N 22° 56.9´ E	**Fl.R.** period 2s fl. 0.5s, ec. 1.5s	29 **9**	5	White hexagonal hut, gallery, column, red band; 26.	
16608 *N 4503*	**-Ormos Thessalonikis**, 050°.	40° 36.6´ 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 structure, building.	
	-RACON		**A(• –)**		7		
16612 *N 4503.2*	--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 structure, white round hut, red band; 18.	
16620 *N 4506*	--Breakwater, SE. head.	40° 37.8´ N 22° 56.0´ E	**Fl.R.** period 4s fl. 1.6s, ec. 2.4s	39 **12**	7	White concrete column, gallery, red band; 39.	
16624 *N 4505*	---W. head.	40° 37.9´ N 22° 55.3´ E	**Fl.G.** period 4s fl. 1.6s, ec. 2.4s	43 **13**	7	White concrete column, gallery, green band; 36.	
16628 *N 4504*	--Pier I, harbor office building, SW. corner.	40° 37.9´ N 22° 56.1´ E	**Fl.G.** period 4s fl. 1.5s, ec. 2.5s	56 **17**	10	White metal framework structure, green band, building; 49.	Traffic Signals.
16636 *N 4509*	--Oil terminal, pier, head.	40° 38.2´ N 22° 53.7´ E	**Fl.(3)W.** period 12s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 7s	33 **10**	10	White hexagonal hut, gallery, column; 26.	
16639 *N 4492.9*	-Sani Marina.	40° 05.8´ N 23° 18.3´ E	**Q.G.**	23 **7**	3	Metal framework structure, gallery, metal column, green band.	Q.R. 7m 3M, Fl.G. 3s 7m 3M, Fl.R. 3s 7m 3M mark nearby moles.
16640 *N 4488*	**-Akra Kassandra.**	39° 57.5´ N 23° 21.7´ E	**Fl.(2)W.** period 15s fl. 0.4s, ec. 3.4s fl. 0.4s, ec. 10.8s	62 **19**	**24**	Octagonal tower, dwelling; 59.	
	KOLPOS KASSANDRAS:						
16644 *N 4511*	-Akra Paliourian, W. entrance, point.	39° 54.9´ N 23° 44.9´ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	66 **20**	7	Metal framework structure; 13.	
16646 *N 4518*	-Pallini.	40° 03.7´ N 23° 27.9´ E	**F.R.**	20 **6**	3	White metal column, red band; 20.	Private light.
	-Limin Koufo:						
16648 *N 4512*	--Akra Pagona.	39° 57.5´ N 23° 55.1´ E	**Fl.G.** period 3s fl. 0.4s, ec. 2.6s	43 **13**	5	Metal framework structure; 20.	
16652 *N 4512.5*	--Spilia.	39° 57.8´ N 23° 55.1´ E	**Fl.R.** period 3s fl. 0.4s, ec. 2.6s	52 **16**	4	White square hut, two pillars, red band; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			GREECE				
16656 *N 4516*	-Skaha Gerakini, pier, head.	40° 16.2´ N 23° 26.5´ E	**2 F.R.** (vert.)	26 **8**	3	White metal column.	1 meter apart. Private light.
16660 *N 4513*	-Akra Papadhia.	40° 00.3´ N 23° 49.4´ E	**Fl.W.R.** period 3s fl. 0.3s, ec. 2.7s	29 **9**	W. 5 R. 3	Metal framework structure; 13.	W. 269°-138°, R.-168°.
16664 *N 4515*	-Neos Marmaras.	40° 05.5´ N 23° 46.7´ E	**Fl.R.** period 1.5s fl. 0.2s, ec. 1.3s	36 **11**	3	White square hut, two pillars, red band; 13.	
16666 *N 4515.4*	-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 structure, gallery, metal column, red band.	
16667 *N 4515.5*	--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 structure, gallery, metal column, green band.	
	SINGITIKOS KOLPOS:						
16668 *N 4520*	-Akra (Dhrepanon), Psevdhokavos.	39° 57.0´ N 23° 59.4´ E	**Fl.(2)W.** period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	171 **52**	10	White metal framework structure; 16.	
16670 *N 4522.4*	-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 structure, gallery, metal column.	
16672 *N 4522*	-Ormos Sikias, Akra Adholo.	40° 02.3´ N 24° 00.8´ E	**Fl.W.** period 1.5s fl. 0.5s, ec. 1s	36 **11**	4	Metal framework structure, white round hut; 13.	
16676 *N 4523*	-Ormos Dhimitri.	40° 13.7´ N 23° 46.1´ E	**Fl.G.** period 1.5s fl. 0.3s, ec. 1.2s	34 **10**	3	Metal framework structure; 13.	
16677 *N 4523.2*	-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 structure, gallery, metal column, green band.	
16680 *N 4523.4*	-Ormos Pyrgadikia.	40° 20.1´ N 23° 43.2´ E	**Q.R.**	20 **6**	3	Metal framework structure; 13.	
16682 *N 4523.9*	-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 structure, gallery, metal column; 20.	
16684 *N 4524*	-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. 4 R. 3	Metal framework structure; 13.	W. 103°-323°, R.-103°.
16685 *N 4525*	-Limenas Ouranoupolis, mole, head.	40° 19.6´ N 23° 58.7´ E	**Fl.G.** period 2s fl. 0.3s, ec. 1.7s	23 **7**	3	Metal framework structure, gallery, green band; 20.	
16688 *N 4526*	-Dhafni.	40° 13.1´ N 24° 13.3´ E	**Fl.W.** period 2.5s fl. 0.3s, ec. 2.2s	56 **17**	5	Metal framework structure, white round hut; 16.	Obscured when bearing less than 008°.
16689 *N 4527.5*	-Moni Agiou Pavlou, N. mole, head.	40° 09.4´ N 24° 17.0´ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	23 **7**	3	Metal framework structure, gallery, metal column, green band.	
16689.1 *N 4527*	--S. mole, head.	40° 09.4´ N 24° 17.0´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	23 **7**	3	Metal framework structure, gallery, metal column, red band.	
16692 *N 4528*	-Akra Pinnes.	40° 07.0´ N 24° 18.3´ E	**Fl.(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 structure, white square hut; 18.	
16696 *N 4530*	Akra Akrathos.	40° 08.5´ N 24° 24.0´ E	**L.Fl.W.** period 10s fl. 2s, ec. 8s	154 **47**	11	Metal framework structure, gallery, white square hut.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			GREECE				
16697 *N 4525.5*	Ormos Vatopedhiou, Monastery, mole, head.	40° 19.0´ N 24° 12.7´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	23 **7**	3	White metal framework structure, gallery, red band; 16.	
16698 *N 4525.3*	Athos Peninsula, Esfigmenos Monastery, mole, head.	40° 21.3´ N 24° 08.3´ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	26 **8**	3	White metal framework structure, gallery, green band; 16.	
16698.1 *N 4525.4*	- -Jetty, head.	40° 21.3´ N 24° 08.3´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	23 **7**	3	White metal framework structure, gallery, red band; 16.	
16700 *N 4533*	Ormos Plati, NW. point.	40° 26.2´ N 23° 59.7´ E	**Q.W.**	72 **22**	4	Metal framework structure; 13.	
16704 *N 4532*	Nisidhes Stilaria, Akra Arapis.	40° 27.3´ N 24° 00.5´ E	**Fl.W.** period 2.5s fl. 0.3s, ec. 2.2s	98 **30**	6	Metal framework structure; 7.	
16706 *N 4533.6*	Limenas Neon Rodhon.	40° 23.0´ N 23° 55.9´ E	**Fl.R.** period 2s fl. 0.3s, ec. 1.7s	30 **9**	3	Metal framework structure, gallery, red band; 20.	
16707 *N 4533.7*	Ierissos, E. mole, head.	40° 23.7´ N 23° 53.6´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	23 **7**	3	Metal framework structure, gallery, red band.	
16707.5 *N 4533.8*	-W. mole, head.	40° 23.7´ N 23° 53.5´ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	23 **7**	3	Metal framework structure, gallery, green band; 17.	
16708 *N 4534*	Ormos Stratoni, E. mole.	40° 31.0´ N 23° 50.0´ E	**F.R.**	76 **23**	5	Metal column.	Private light.
16710 *N 4535*	Olimbias.	40° 35.6´ N 23° 47.3´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	26 **8**	3	Metal framework structure, gallery, red column.	
16712 *N 4536*	Nisis Kavkanas, E. head.	40° 36.9´ N 23° 48.5´ E	**Fl.(3)W.** period 18s fl. 0.3s, ec. 1.3s fl. 0.3s, ec. 1.3s fl. 0.3s, ec. 14.5s	75 **23**	7	Metal framework structure, white round hut; 18.	
16716 *N 4537*	Ormos Stavros, mole, head.	40° 40.1´ N 23° 42.1´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	23 **7**	3	Metal framework structure, gallery, metal column, red band.	
16716.1 *N 4537.5*	Ormos Stomion.	40° 46.7´ N 23° 51.4´ E	**Fl.G.** period 2s	16 **5**	3		
16720 *N 4538*	Ormos Elevrhteron, N. side.	40° 50.6´ N 24° 19.6´ E	**Fl.W.** period 3s fl. 0.4s, ec. 2.6s	66 **20**	5	Metal framework structure; 16.	
16728 *N 4539.5*	Nea Iraklitsa, E. mole, head.	40° 52.1´ N 24° 19.1´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	23 **7**	3	Metal framework structure, gallery, red band.	
16732 *N 4539.6*	-W. mole, head.	40° 52.0´ N 24° 19.1´ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	23 **7**	3	Metal framework structure, gallery, green band.	
	LIMIN KAVALAS:						
16736 *N 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; 10.	
16744 *N 4542*	-N. breakwater, head.	40° 56.0´ N 24° 24.4´ E	**Fl.R.** period 2s fl. 0.3s, ec. 1.7s	36 **11**	4	White hexagonal hut, column, red band; 30.	
16748 *N 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	White hexagonal hut, gallery, column, red band; 23.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			GREECE				
16749 *N 4544.6*	Ormos Perigiali, S. mole, head.	40° 56.5′ N 24° 25.7′ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	26 **8**	3	Metal framework structure, gallery, red band; 18.	
16749.5 *N 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 structure, gallery, green band; 18.	
16752 *N 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 structure, gallery, metal column, green band.	
16756 *N 4545.3*	-Nea Karrali, pier, head.	40° 57.3′ N 24° 32.5′ E	**3 F.R.**	33 **10**	3	White metal framework structure, round hut, red band; 30.	Lights form inverted L.
16760 *N 4546*	Akra Ammodhis.	40° 51.6′ N 24° 37.7′ E	**Fl.(2)W.** period 10s fl. 0.3s, ec. 1.4s fl. 0.3s, ec. 8s	30 **9**	7	Metal framework structure, white square hut; 23.	Visible 265°-134°.
	ORMOS KERAMOTIS:						
16764 *N 4546.3*	-Akra Keramotis.	40° 51.4′ N 24° 41.2′ E	**Fl.W.R.** period 4s fl. 0.4s, ec. 3.6s	20 **6**	W. 6 R. 4	Metal framework structure, white round hut; 20.	W. 095°-081°, R.-095°.
16768 *N 4546.6*	-Pier, head.	40° 51.5′ N 24° 42.1′ E	**Q.R.G.**	23 **7**	2	White round hut, column; 16.	R. 107°-151°, G.-107°.
16772 *N 4548*	Nisis Thasopoula.	40° 49.5′ N 24° 43.0′ E	**Fl.W.R.** period 4.5s fl. 0.6s, ec. 3.9s	85 **26**	W. 6 R. 4	Metal framework structure, white round hut; 20.	R. 237°-260°, W.-102°.
	NISOS THASOS:						
16775 *N 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	59 **18**	10	Platform.	W. lights are synchronized and located on the corners of the platforms. **Siren:** Mo.(U) 30s (bl. 0.75s, si. 1s, bl. 0.75s, si. 1s, bl. 2.5s, si. 24s).
			Mo.(U)R. period 15s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 0.5s fl. 1.5s, ec. 11.5s				R. lights are synchronized and located in the middle of the bridges which connect platforms A, B, D, and F.
16776 *N 4547.8*	-Thasos, W. breakwater, head.	40° 46.9′ N 24° 42.7′ E	**Fl.G.** period 2s fl. 0.3s, ec. 1.7s	26 **8**	4	White hexagonal hut, column, green band; 23.	
16780 *N 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	White hexagonal hut, column, red band; 23.	
16781 *N 4547.93*	-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 *N 4547.95*	--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 *N 4546.8*	-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 structure, gallery, green band.	
16782.5 *N 4546.9*	--Pier, head.	40° 47.0′ N 24° 36.8′ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	26 **8**	3	Metal framework structure, gallery, metal column, red band.	
16784 *N 4547*	-Akra Prinos.	40° 45.7′ N 24° 33.8′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	16 **5**	7	Metal framework structure; 13.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			GREECE				
16785 *N 4547.1*	-Sotiras, S. mole, head.	40° 43.8′ N 24° 32.7′ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	26 **8**	3	Metal framework structure, gallery, metal column, green band.	
16785.5 *N 4547.15*	--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 structure, gallery, metal column, red band.	
16786 *N 4547.2*	-Kallirachi, S. mole, head.	40° 42.6′ N 24° 31.8′ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	23 **7**	3	Metal framework structure, gallery, metal column, green band.	
16786.5 *N 4547.25*	--N. mole, head.	40° 42.6′ N 24° 31.9′ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	26 **8**	3	Metal framework structure, gallery, metal column, red band.	
16787 *N 7601.5*	-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.	W. lights are synchronized and located on the corners of the platform. **Siren:** Mo.(U) 24s (bl. 0.75s, si. 1s, bl. 0.75s, si. 1s, bl. 2.5s, si. 18s).
16788 *N 4547.5*	-Akra Achpas.	40° 38.3′ N 24° 30.8′ E	**Fl.(2)W.** period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	46 **14**	7	Metal framework structure; 13.	
16789 *N 4547.4*	--Mole, head.	40° 38.7′ N 24° 30.9′ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	23 **7**	3	Metal framework structure, gallery, metal column, green band.	
16792 *N 4547.7*	-Akra Stavros Babouras.	40° 36.4′ N 24° 46.4′ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	115 **35**	7	Metal framework structure; 10.	
16793 *N 4549.2*	Akra Baloustra, fishing harbor, E. breakwater, head.	40° 55.7′ N 24° 58.1′ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	20 **6**	3	White metal framework structure, green band; 20.	
16794 *N 4549.22*	-W. breakwater, head.	40° 55.8′ N 24° 58.1′ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	20 **6**	3	White metal framework structure, red band; 20.	
	ORMOS VISTONIAS:						
16796 *N 4550*	-Akra Fanari.	40° 57.4′ N 25° 07.8′ E	**Fl.W.** period 8s fl. 1.5s, ec. 6.5s	131 **40**	6	Metal framework structure, water tower.	
16800 *N 4550.5*	-Fanarion, S. breakwater, head.	40° 57.8′ N 25° 07.4′ E	**Fl.G.** period 2s fl. 0.3s, ec. 1.7s	23 **7**	3	Metal framework structure, gallery, green band; 16.	
16808	-Lagos Entrance Range, front.	41° 00.3′ N 25° 07.7′ E	**F.Or.**	16 **5**	3	White metal column, orange triangular daymark point up.	
16812	--Rear, 180 meters 023°30′ from front.	41° 00.4′ N 25° 07.7′ E	**F.Or.**	23 **7**	3	White metal column, orange triangular daymark point down.	
16824 *N 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, gallery, pedestal, green band.	
16830 *N 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 structure, gallery, metal column, green band.	
16830.1 *N 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 structure, gallery, green band.	Fl.R. 2s 7m 3M marks inner E. mole.
16832 *N 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 structure, gallery, green band; 13.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			GREECE				
16834 *N 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 framework structure, gallery, metal column, red band.	
16835 *N 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 framework structure, gallery, metal column, green band.	
16836 *N 4554*	**Alexandroupolis.**	40° 50.6´ N 25° 52.5´ 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**	Cylindrical tower, dwelling; 89.	
16840 *N 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	White hexagonal hut, column, green band; 23.	Q.G. 0.8 mile ESE. marks end of breakwater under construction.
16844 *N 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 structure, gallery, red band.	
	NISOS SAMOTHRAKI:						
16846 *N 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 structure, gallery, metal column, red band; 20.	
16848 *N 4556*	-Akra Akrotiri.	40° 28.5´ N 25° 26.8´ E	**Fl.W.** period 5s fl. 1s, ec. 4s	39 **12**	10	Metal framework structure, gallery, metal column.	
16852 *N 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 structure, gallery, metal column; 16.	
16860 *N 4556.8*	-Zourafa Islet.	40° 28.6´ N 25° 50.2´ E	**Fl.(2)W.** period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	30 **9**	8	ISOLATED DANGER BRB, beacon, topmark; 26.	

Section 12

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

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			GREECE-TURKEY				
16861 *N 4568.3*	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.	**AIS** (MMSI No 992711120).
16861.1 *N 4568.31*	-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.	**AIS** (MMSI No 992711121).
16863 *N 4568.35*	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.	**AIS** (MMSI No 992711117).
	BOZCA ADA (T.):						
16864 *N 4568*	-Mermer Burnu.	39° 48.0´ N 26° 04.8´ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	105 **32**	10	White metal tower; 23.	
16868 *N 4566*	-Bozcaada, breakwater, entrance, S. side, head..	39° 50.0´ N 26° 04.5´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	39 **12**	3	White metal framework tower; 33.	
16869 *N 4565.5*	--Inner harbor, pier, head.	39° 50.1´ N 26° 04.4´ E	**Fl.(4)Y.** period 10s	26 **8**	5	Yellow metal tower; 20.	
16870 *N 4564*	**-Bati Burnu.**	39° 50.1´ N 25° 57.7´ E	**Fl.(2)W.** period 15s fl. 1s, ec. 3s fl. 1s, ec. 10s	105 **32**	**15**	White metal tower, dwelling; 66.	
16876 *N 4565*	Ortafener Adasi (T.).	39° 50.5´ N 26° 05.6´ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	26 **8**	8	White metal tower; 10.	**AIS** (MMSI No 992711140).
16878 *N 4568.5*	Besige Limani (T.), cement factory, jetty, head.	39° 52.7´ N 26° 09.1´ E	**F.R.**	23 **7**	3		
16878.1 *N 4568.6*	--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 *N 4568.7*	--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 *N 4569*	**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 *N 4560*	Tavsan Adasi (T.).	39° 56.1´ N 26° 03.6´ E	**Fl.W.R.** period 5s fl. 1s, ec. 4s	148 **45**	W. 14 R. 10	White metal pylon, dwelling; 30.	R. 037°-052°, W.-037°. Reserve light range W. 8M, R. 5M.
	NISOS LIMNOS (GR.):						
16888 *N 4578*	-Ormos Moudhrou, Nisis Kombi.	39° 47.8´ N 25° 14.2´ E	**Fl.(2)W.** period 6s fl. 0.4s, ec. 0.8s fl. 0.4s, ec. 4.4s	200 **61**	10	Metal framework structure; 13.	
16892 *N 4580*	--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 structure, white round hut; 16.	
16900 *N 4577*	-Ormos Kondias, on Akra Lena.	39° 50.7´ N 25° 09.8´ E	**Fl.W.** period 3.3s fl. 0.4s, ec. 2.9s	20 **6**	5	White metal framework structure; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			GREECE-TURKEY				
16904 *N 4575*	-Mirina.	39° 52.6´ N 25° 03.2´ E	**Fl.W.** period 6s fl. 1s, ec. 5s	272 **83**	11	Masonry structure; 13.	
16907 *N 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, gallery, column, red band; 30.	
16908 *N 4576.2*	--E. breakwater, head.	39° 52.4´ N 25° 03.5´ E	**Q.R.**	33 **10**	3	White hexagonal hut, gallery, column, red band; 26.	
16912 *N 4576.6*	--S. breakwater, head.	39° 52.3´ N 25° 03.0´ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	33 **10**	5	White hexagonal hut, gallery, column, green band; 26.	
16916 *N 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 pyramidal structure, gallery; 10.	
16920 *N 4572*	**-Akra Plaka.**	40° 02.1´ N 25° 26.7´ E	**Fl.(3)W.** period 30s fl. 0.1s, ec. 4.9s fl. 0.1s, ec. 4.9s fl. 0.1s, ec. 19.9s	181 **55**	**22**	Cylindrical tower, dwelling; 69.	
			F.R.	118 **36**	13	White lantern; 10.	Visible 301°-346°.
16921 *N 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 structure, gallery, metal column, green band.	
16921.1 *N 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 structure, gallery, metal column, red band.	
	NISOS AYIOS EVSTRATOS (GR.):						
16924 *N 4585*	-Nisis Ay. Apostoloi.	39° 33.9´ N 25° 00.2´ 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 *N 4584.5*	-Evstratios, mole, head.	39° 32.4´ N 24° 59.1´ E	**Fl.R.** period 2s fl. 0.2s, ec. 1.8s	26 **8**	3	Metal framework structure, gallery, metal column; 23.	
16928 *N 4584*	-Akra Tripiti.	39° 27.8´ N 24° 59.2´ E	**Fl.(2)W.** period 10s fl. 0.4s, ec. 1.2s fl. 0.4s, ec. 8s	135 **41**	8	Metal framework structure, white round hut; 16.	
	IMROZ ADASI (T.):						
16932 *N 4559.4*	-Kalekoy.	40° 14.0´ N 25° 54.1´ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	161 **49**	7	White metal framework tower; 30.	**AIS** (MMSI No 992711122).
16936 *N 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.	**AIS** (MMSI No 992711125).
16936.5 *N 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	White metal tower; 23.	**AIS** (MMSI No 992711124).
16940 *N 4559*	-Aydinicik Burnu.	40° 09.7´ N 26° 00.7´ 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.	**AIS** (MMSI No 992711123).
16940.5 *N 4559.2*	-Ugurlu Iskelesi, breakwater.	40° 06.9´ N 25° 41.9´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	36 **11**	5	White metal framework tower; 30.	**AIS** (MMSI No 992711126).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			GREECE-TURKEY				
16941 *N 4558.5*	-Kabatepe Limani, N. breakwater, head.	40° 12.2´ N 26° 16.0´ E	**Fl.R.** period 5s fl. 1s, ec. 4s	33 **10**	6	White concrete tower; 23.	**AIS** (MMSI No 992711113).
16942 *N 4558.6*	- -S. breakwater, head.	40° 12.2´ N 26° 16.0´ E	**Fl.G.** period 5s fl. 1s, ec. 4s	30 **9**	6	White concrete tower; 20.	**AIS** (MMSI No 992711115).
16943 *N 4557.1*	Enez Harbor (T.), W. breakwater, head.	40° 42.0´ N 26° 03.1´ E	**Fl.G.** period 5s fl. 1s, ec. 4s	13 **4**	7	White concrete tower; 20.	**AIS** (MMSI No 992711110).
16943.1 *N 4557.12*	-N. breakwater, head.	40° 42.0´ N 26° 03.1´ E	**Fl.R.** period 5s fl. 1s, ec. 4s	13 **4**	7	White concrete tower; 20.	**AIS** (MMSI No 992711111).
16943.2 *N 4557.14*	-Inner breakwater, head.	40° 41.9´ N 26° 03.2´ E	**F.R.**	26 **8**	2	White concrete tower; 20.	
	SAROS KORFEZI:						
16944 *N 4558*	-Buyuk Kemikli Burnu.	40° 19.0´ N 26° 13.2´ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	46 **14**	10	White metal framework tower; 23.	**AIS** (MMSI No 992711116).
16948 *N 4557.6*	Bakla Burnu, Saros Korfezi.	40° 33.4´ N 26° 44.8´ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	52 **16**	12	White round metal tower; 26.	**AIS** (MMSI No 992711109).
			TURKEY				
	DARDANELLES (CANAKKALE BOGAZI):						
16956 *N 4850*	**-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 stone tower, dwelling; 82.	R. 350°-010°, W.-350°. **Radar reflector.**
	-RACON		**C(– • – •)**		**20**		(3 & 10cm).
16960 *N 4852.4*	-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 *N 4852.8*	- -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.	**AIS** (MMSI No 992711387).
16968 *N 4852.3*	- -Seddulbahir.	40° 02.5´ N 26° 11.5´ E	**Fl.R.** period 5s fl. 0.3s, ec. 4.7s	26 **8**	3	Concrete tower; 13.	**AIS** (MMSI No 992711351).
16972 *N 4852.6*	- -N. mole.	40° 02.5´ N 26° 11.5´ E	**Fl.G.** period 5s fl. 0.3s, ec. 4.7s	26 **8**	5	Concrete tower; 13.	**AIS** (MMSI No 992711352).
16976 *N 4852*	-Anit (Morto) Limani.	40° 02.6´ 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 *N 4848*	**-Kumkale Burnu,** entrance, S. side.	40° 00.5´ 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 *N 4853*	-Karanfil Burnu.	40° 06.4´ N 26° 19.7´ E	**Fl.(2)R.** period 12s fl. 1s, ec. 2s fl. 1s, ec. 8s	46 **14**	10	White metal tower; 43.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			TURKEY				
16988 *N 4854*	-Kanlidere Burnu.	40° 05.6′ N 26° 21.8′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	33 **10**	10	White metal tower, dwelling; 33.	
16989 *N 4854.5*	-Kepez Burnu, jetty, head.	40° 06.3′ N 26° 22.7′ E	**Fl.R.** period 5s fl. 1s, ec. 4s				
16990 *N 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 *N 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.	
16993 *N 4856.5*	--N breakwater, head.	40° 09.2′ N 26° 22.8′ E	**Fl.G.** period 5s fl. 1s, ec. 4s	23 **7**	5	Round metal tower, green bands.	
16994 *N 4856.3*	--S. breakwater, head.	40° 09.0′ N 26° 22.7′ E	**Fl.R.** period 5s fl. 1s, ec. 4s	23 **7**	5	Round metal tower, red bands.	
16996 *N 4857*	-Canakkale Kalesi (Cimenlik).	40° 08.8′ N 26° 23.9′ 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 *N 4857.2*	--Ferry Terminal.	40° 09.0′ N 26° 24.0′ E	**Fl.(2)G.** period 5s fl. 0.4s, ec. 0.6s fl. 0.4s, ec. 3.6s	23 **7**	3	White concrete tower, green bands; 13.	**AIS** (MMSI No 992711114).
16997.05 *N 4857.22*	---N. breakwater, head.	40° 09.0′ N 26° 24.0′ E	**Fl.(2)R.** period 5s	26 **8**	3		
16997.1 *N 4857.25*	--Breakwater, head.	40° 09.1′ N 26° 24.1′ E	**Fl.(3)Y.** period 8s	26 **8**	5		
16998 *N 4857.3*	--Marina, breakwater, head.	40° 09.2′ N 26° 24.3′ E	**Fl.G.** period 3s	20 **6**	3	Metal pylon; 13.	
17000 *N 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, concrete base; 30.	F.R. on jetty 600 meters SE.
17004 *N 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 *N 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 *N 4859*	-Eceabat, S. breakwater, head.	40° 11.1′ N 26° 21.6′ E	**Fl.R.** period 5s fl. 1s, ec. 4s	26 **8**	5	White metal tower; 20.	
17016 *N 4859.2*	--N. breakwater, head.	40° 11.1′ N 26° 21.7′ E	**Fl.G.** period 5s fl. 1s, ec. 4s	26 **8**	5	White metal tower; 20.	
17020 *N 4860*	-Poyraz Burnu.	40° 12.2′ 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 *N 4866*	-Kavakalti Deresi, shoal, head.	40° 13.2′ 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 *N 4868*	-Uzun Burnu.	40° 16.0′ 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.	**AIS** (MMSI No 992711112).
17032 *N 4870*	-Gocuk Burnu, strait, E. side.	40° 16.7′ N 26° 34.3′ 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.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			TURKEY				
17036 *N 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 *N 4875*	-Lapseki Limani.	40° 20.0´ 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	SPECIAL Y, tower, "X" topmark; 20.	
17040 *N 4874*	-Galata Burnu, on shoal.	40° 21.4´ N 26° 37.7´ E	**Fl.(2)R.** period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	16 **5**	12	White metal tower; 13.	
17044 *N 4876*	-Cardak Burnu, on low sandy point.	40° 23.1´ N 26° 42.5´ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	38 **12**	7	White concrete tower; 36.	
17046 *N 4876.5*	-Cardak Banki.	40° 23.5´ N 26° 42.5´ E	**V.Q.(9)W.** period 10s	26 **8**	5	W. CARDINAL YBY, beacon, topmark; 16.	
17048 *N 4878*	**-Gelibolu.**	40° 24.6´ N 26° 40.9´ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	111 **34**	**15**	White masonry tower, dwelling; 30.	**Siren:** 2 bl. ev. 30s (bl. 2s, si. 2s, bl. 2s, si. 24s).
	-RACON		**G(– – •)**		**20**		(3 & 10cm).
17049 *N 4877*	--Fishing Harbor, breakwater, head.	40° 24.3´ N 26° 40.1´ E	**Fl.(2)Y.** period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	26 **8**	3	SPECIAL Y, tower, "X" topmark; 20.	
17049.1 *N 4877.1*	---Elbow.	40° 24.3´ N 26° 40.2´ E	**Fl.(2)Y.** period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	26 **8**	3	SPECIAL Y, tower, "X" topmark; 20.	
	SEA OF MARMARA (MARMARA DENIZI):						
17052 *N 4879*	-Zincirbozan Banki, Sea of Marmara, W. entrance.	40° 25.2´ N 26° 45.2´ E	**Fl.W.** period 10s fl. 1s, ec. 9s	33 **10**	7	Tower, concrete base; 36.	**AIS** (MMSI No 992711355). **Radar reflector.**
17054 *N 4879.5*	-Doganaslan Bank.	40° 29.8´ N 26° 51.4´ E	**Q.(6)+L.Fl.W.** period 15s	30 **9**	7	S. CARDINAL YB, beacon, topmark.	
17056 *N 4880*	**-Ince Burnu.**	40° 33.4´ N 26° 59.8´ E	**Fl.(3)W.** period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	105 **32**	**16**	White concrete tower; 33.	**AIS** (MMSI No 992711087).
17058 *N 4880.2*	-Kemer Limani, SW. breakwater, head.	40° 24.7´ N 27° 02.3´ E	**Fl.R.** period 5s	30 **9**	5		F.R. lights on breakwater.
17058.5 *N 4880.25*	--Pier, head.	40° 24.4´ N 27° 02.6´ E	**Fl.G.** period 5s	30 **9**	5		
17060 *N 4896*	**-Hoskoy.**	40° 42.2´ N 27° 18.3´ E	**Fl.(2)W.** period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	164 **50**	**19**	White metal tower, dwelling; 72.	**AIS** (MMSI No 992711086).
17061 *N 4896.2*	-Kumbag, fishing harbor, breakwater, head.	40° 51.9´ N 27° 27.7´ E	**F.R.**	23 **7**	8	Concrete tower; 7.	
17064 *N 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 *N 4896.74*	--E. breakwater, head.	40° 58.4´ N 27° 31.4´ E	**Fl.G.** period 4s		3		
17064.6 *N 4896.72*	--W. breakwater, head.	40° 58.5´ N 27° 31.4´ E	**Fl.R.** period 4s		3		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			TURKEY				
17065 *N 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 *N 4896.56*	----E. corner.	40° 57.9′ N 27° 30.6′ E	**Fl.(2)R.** period 6s	30 **9**	4		
17065.2 *N 4896.54*	---Outer, NE. corner.	40° 57.9′ N 27° 30.6′ E	**Fl.(3)Y.** period 9s	30 **9**	4		
17065.3 *N 4896.52*	----SW. corner.	40° 57.7′ N 27° 30.5′ E	**Fl.G.** period 4s	30 **9**	4		
17066 *N 4896.85*	--SW. pier, dolphin.	40° 57.7′ N 27° 30.3′ E	**Fl.R.** period 4s	30 **9**	4		
17066.1 *N 4896.8*	---Head.	40° 57.7′ N 27° 30.2′ E	**F.R.**				
17067 *N 4896.42*	--SW. jetty, head.	40° 57.6′ N 27° 30.3′ E	**Iso.Y.** period 2s	30 **9**	4		
17067.5 *N 4896.9*	**-Kargaburun** AVIATION LIGHT.	40° 58.4′ N 27° 52.2′ E	**Oc.R.** period 3s	643 **196**	**20**	Mast.	
			Oc.R. period 3s	269 **82**	**16**		
17068 *N 4897*	-Orencik, Venedik Tasi.	40° 57.7′ N 27° 53.8′ E	**Fl.W.** period 6s fl. 1s, ec. 5s	30 **9**	10	White tower, concrete base; 16.	**AIS** (MMSI No 992711101).
17069 *N 4897.5*	-Marta, jetty.	40° 57.7′ N 27° 55.9′ E	**Fl.(2)Y.** period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	39 **12**	5	SPECIAL Y, post, "X" topmark.	
17072 *N 4898*	**-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, dwelling; 85.	**AIS** (MMSI No 992711100).
17076 *N 4899*	--On shoal spit, about 0.65 km. 034° from Marmaraereglisi.	40° 58.4′ N 27° 57.9′ E	**Q.(3)W.** period 10s	30 **9**	8	E. CARDINAL BYB, beacon, topmark; 20.	**AIS** (MMSI No 992711102).
17077 *N 4899.05*	-Opet Terminal, N. jetty, SW. head.	40° 59.1′ N 27° 59.0′ E	**Fl.(2)Y.** period 6s	33 **10**	5		
17077.1 *N 4899.06*	---NE. head.	40° 59.1′ N 27° 58.9′ E	**Fl.(2)Y.** period 6s	33 **10**	5		
17078 *N 4899.1*	-Botas Dogalgaz Terminal.	40° 59.7′ N 27° 59.2′ E	**Fl.(4)Y.** period 10s	30 **9**	5	Round post, "X" topmark.	F.R. mark terminal jetties.
17080 *N 4899.3*	-Silivri, center breakwater.	41° 04.4′ N 28° 14.3′ E	**Fl.G.** period 5s fl. 1s, ec. 4s	20 **6**	5	White concrete tower; 16.	**AIS** (MMSI No 992711045).
17081 *N 4899.4*	--Auxiliary breakwater.	41° 04.4′ N 28° 14.4′ E	**Fl.R.** period 5s fl. 1s, ec. 4s	20 **6**	5	White concrete tower; 16.	**AIS** (MMSI No 992711046).
17082 *N 4899.53*	–Mimarsinan. N. breakwater, head.	41° 00.9′ N 28° 33.9′ E	**Fl.G.** period 5s		5		
17083 *N 4899.535*	--S. breakwater, head.	41° 00.9′ N 28° 34.0′ E	**Fl.R.** period 5s		5		
17092 *N 4899.6*	-Buyukcekmece Koyu, Degirmen Burnu.	40° 57.6′ N 28° 37.3′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	65 **20**	10	White concrete tower; 26.	**AIS** (MMSI No 992711044).
17092.1 *N 4900.797*	-Westward, N. side.	40° 57.7′ N 28° 39.5′ E	**Fl.R.** period 5s	36 **11**	3		
17092.2 *N 4900.798*	--S. side.	40° 57.7′ N 28° 39.6′ E	**Fl.G.** period 5s	36 **11**	3		
17093 *N 4900.79*	-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.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			TURKEY				
17093.1 *N 4900.9*	--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 *N 4901.7*	-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 *N 4901*	-Yesilkoy, AVIATION LIGHT.	40° 58.7´ N 28° 49.3´ E	**Al.Fl.W.G.** period 8s	160 **49**	10	Tower; 69.	
17104 *N 4902*	**-Yesilkoy Burnu.**	40° 57.5´ N 28° 50.3´ E	**Fl.(2)W.** period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	75 **23**	**15**	White stone tower, dwelling; 33.	
17105 *N 4902.5*	-Atakoy Marina, jetty.	40° 58.3´ N 28° 52.8´ E	**Fl.R.** period 3s fl. 1s, ec. 2s	43 **13**	5	White mast, tower.	
17105.1 *N 4902.6*	--Wharf.	40° 58.3´ N 28° 52.7´ E	**Fl.G.** period 3s fl. 1s, ec. 2s	33 **10**	5	White round tower.	
17105.2 *N 4902.71*	-Zeyport.	40° 58.8´ N 28° 53.6´ E	**Fl.R.** period 3s	30 **9**	5	White metal tower; 23.	Synchronized with 17105.21.
17105.21 *N 4902.75*	--S. pier, head.	40° 58.7´ N 28° 53.8´ E	**Fl.G.** period 3s	30 **9**	5	White metal tower; 23.	Synchronized with 17105.2.
17106 *N 4903.45*	-Yenikapi, breakwater, head.	40° 59.9´ N 28° 57.6´ E	**Fl.(2)R.** period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	30 **9**	8	White metal framework tower; 19.	
17107 *N 4903.6*	--E. pier, head.	41° 00.1´ N 28° 57.4´ E	**Fl.(4)Y.** period 15s	23 **7**	3		
17108 *N 4903.4*	**-Kumkapi Barinak,** pier, head.	41° 00.1´ N 28° 57.9´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	33 **10**	**16**	White concrete tower; 30.	**AIS** (MMSI No 992711039).
17110 *N 4880.3*	-Adasi, breakwater, head.	40° 27.3´ N 27° 08.4´ E	**Fl.(2)R.** period 4s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2s	30 **9**	7	Metal column; 33.	
17112 *N 4880.6*	-Ince Burun, W. entrance point.	40° 28.5´ N 27° 17.1´ E	**Fl.(3)W.** period 10s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	164 **50**	10	White metal tower; 23.	**AIS** (MMSI No 992711105).
17116 *N 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.	**AIS** (MMSI No 992711088).
17120 *N 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 *N 4881.72*	--N. pier, head.	40° 24.0´ N 27° 48.0´ E	**F.R.**				
17128 *N 4881.71*	--SW. pier, head.	40° 23.2´ N 27° 48.3´ E	**F.R.**				**AIS** (MMSI No 992711094).
17129 *N 4881.74*	--NW. pier, head.	40° 23.6´ N 27° 47.5´ E	**Iso.Y.** period 2s	30 **9**	7	23.	
17132 *N 4881*	-Kale Burnu.	40° 24.7´ N 27° 20.0´ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	75 **23**	8	White metal framework tower; 26.	**AIS** (MMSI No 992711106).
17134 *N 4881.3*	-Karabiga, N. breakwater, head.	40° 24.2´ N 27° 18.5´ E	**Fl.G.** period 5s fl. 1s, ec. 4s	23 **7**	5	White concrete tower; 10.	**AIS** (MMSI No 992711107).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			TURKEY				
17135 *N 4881.4*	--Inner harbor.	40° 24.1´ N 27° 18.4´ E	**Fl.Y.** period 3s fl. 1s, ec. 2s	26 **8**	7	20.	
17135.5 *N 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.	**AIS** (MMSI No 992711108).
17136 *N 4894*	-Hayirsiz Ada, N. summit.	40° 38.7´ N 27° 29.1´ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	366 **112**	12	White metal framework tower, dwelling; 26.	**AIS** (MMSI No 992711078).
17144 *N 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.	**AIS** (MMSI No 992711083).
	-Marmara Adasi:						
17148 *N 4892.6*	--Saraylar, shelter mole, head.	40° 39.4´ N 27° 39.7´ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	36 **11**	10	White metal tower; 30.	**AIS** (MMSI No 992711079).
17152 *N 4892*	--Asmali (Fener Adasi).	40° 38.0´ N 27° 45.5´ 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, dwelling; 29.	**AIS** (MMSI No 992711089).
17152.5 *N 4892.7*	--Cinarli, Adatas (Pacanoz) Rock.	40° 36.6´ N 27° 31.6´ 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 *N 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.	**AIS** (MMSI No 992711080).
17153.5 *N 4892.9*	---Mole, head.	40° 35.0´ N 27° 33.7´ E	**Fl.G.** period 3s fl. 1s, ec. 2s	33 **10**	8	White metal mast; 26.	**AIS** (MMSI No 992711081).
17154 *N 4893.5*	--Balikci Limani.	40° 36.8´ N 27° 42.4´ E	**F.G.**	16 **5**	3	Metal mast; 10.	
17156 *N 4893*	--Ada Burnu.	40° 34.5´ N 27° 34.5´ E	**Fl.(2)W.** period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	49 **15**	5	White metal tower; 20.	**AIS** (MMSI No 992711082).
17159 *N 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.	
17159.1 *N 4881.95*	--W. side.	40° 29.9´ N 27° 31.5´ E	**Fl.R.** period 5s		5		
17160 *N 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 metal tower; 33.	**AIS** (MMSI No 992711084).
17161 *N 4883*	--Avsa Adasi, Ince Br.	40° 28.2´ N 27° 29.3´ E	**Fl.(2)W.** period 10s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	131 **40**	10	White round galvanized metal tower; 23.	
17164 *N 4884*	--Balyos Burnu, Kapidagi Yarimadasi, W. point.	40° 29.7´ N 27° 41.0´ E	**Fl.(2)W.** period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	125 **38**	10	White iron tower; 39.	**AIS** (MMSI No 992711093).
17168 *N 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 metal tower; 23.	**AIS** (MMSI No 992711095).
	-Bandirma Korfezi:						
17172 *N 4890*	--Kapsul Burnu.	40° 28.6´ N 28° 02.1´ E	**Fl.(2)R.** period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	66 **20**	12	White concrete tower, dwelling; 31.	**AIS** (MMSI No 992711091).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			TURKEY				
17176 *N 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.	**AIS** (MMSI No 992711097).
17180 *N 4887*	---E. breakwater, head.	40° 21.5´ N 27° 57.5´ E	**Fl.R.** period 5s fl. 1s, ec. 4s	33 **10**	10	White concrete tower; 26.	**AIS** (MMSI No 992711098).
17184 *N 4889*	---S. mole, head.	40° 21.3´ N 27° 58.0´ E	**2 F.G.** (vert.)	21 **6**	2	White metal mast; 10.	
17188 *N 4886*	--Mola Adalari, Fener Adasi.	40° 27.7´ N 28° 04.0´ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	141 **43**	10	White metal mast, dwelling; 39.	Visible 259°-296°, 303°-312° and 028°-256°. **AIS** (MMSI No 992711092).
17192 *N 4899.8*	-Imrali Adasi, Marti Burnu, NW.	40° 33.9´ N 28° 31.2´ E	**Fl.W.** period 10s fl. 1s, ec. 9s	361 **110**	10	White concrete tower; 20.	**AIS** (MMSI No 992711054).
17196 *N 4899.9*	--Degirmen Burnu.	40° 33.4´ N 28° 33.0´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	82 **25**	6	White metal framework tower; 16.	**AIS** (MMSI No 992711053).
17200 *N 4900.8*	-Karabacey (Sazli Kohve Burnu).	40° 23.4´ 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.	**AIS** (MMSI No 992711099).
17208 *N 4900.2*	-Gemlik Korfezi, Arnavut Burnu.	40° 23.1´ N 28° 51.9´ E	**Fl.(2)W.** period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	98 **30**	12	White metal tower; 20.	**AIS** (MMSI No 992711063).
17212 *N 4900.4*	--Mudanya, mole.	40° 22.5´ N 28° 53.3´ E	**Fl.(3)Y.** period 9s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 5.5s	72 **22**	4	Mast; 66.	
17213 *N 4900.5*	--Roda, jetty.	40° 24.8´ N 29° 04.5´ E	**Fl.(3)Y.** period 10s		5		
17216 *N 4900.6*	--Tuzla Burnu.	40° 25.1´ N 29° 05.7´ E	**Fl.W.** period 10s fl. 1s, ec. 9s	46 **14**	12	White metal framework tower; 39.	**AIS** (MMSI No 992711062).
17220 *N 4900.7*	--Gemlik, wharf, head.	40° 25.9´ N 29° 09.1´ E	**Fl.(3)Y.** period 8s		3	Gray framework tower.	
17225 *N 4900*	-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 tower, dwelling; 29.	**AIS** (MMSI No 992711064). **Siren:** 2 bl. ev. 30s (bl. 2s, si. 2s, bl. 2s, si. 24s).
17236 *N 4899.96*	-Sivrikaya Burnu, entrance, S. side.	40° 38.7´ N 29° 00.5´ E	**Fl.W.** period 10s fl. 1s, ec. 9s	65 **20**	12	White metal framework tower; 33.	**AIS** (MMSI No 992711065).
17238 *N 4899.94*	-Cinarcik, on mole.	40° 38.9´ N 29° 07.7´ E	**F.G.**	30 **9**	3	White concrete tower.	
17240 *N 4931*	-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.	**AIS** (MMSI No 992711060).
17244 *N 4931.2*	--E. mole, head.	40° 39.6´ N 29° 14.8´ E	**Fl.R.** period 3s fl. 1s, ec. 2s	30 **9**	8	Metal framework tower; 23.	**AIS** (MMSI No 992711061).
17248 *N 4931.4*	--Quay, head.	40° 39.6´ N 29° 16.2´ E	**F.R.**				
17249 *N 4931.6*	--E. Quay, head.	40° 39.7´ N 29° 16.8´ E	**F.R.**				
	-Izmit Korfezi:						
17252 *N 4930.2*	--Aksa, Dolphin.	40° 41.9´ N 29° 24.6´ E	**Fl.(3)G.** period 10s		3	Platform.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			TURKEY				
17253 *N 4930.11*	--Cavusciftligi.	40° 41.7′ N 29° 27.4′ E	**Fl.Y.** period 5s	26 **8**	5		
17257 *N 4926.1*	--Dilovasi, jetty.	40° 45.8′ N 29° 31.7′ E	**Fl.R.** period 5s	72 **22**	3		
17258 *N 4926.2*	--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 *N 4926.25*	--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	Metal tower, red band; 36.	
17258.2 *N 4926.23*	---W. pier.	40° 46.1′ N 29° 32.8′ E	**Fl.Y.** period 3s fl. 1s, ec. 2s	56 **17**	3	Round tower, yellow "X" daymark; 49.	
17258.3 *N 4926.21*	--Kaba Cape.	40° 46.0′ N 29° 32.4′ E	**Fl.G.** period 5s	33 **10**	3		
17259 *N 4926.3*	--Vinc Iskelesi.	40° 46.3′ N 29° 43.1′ E	**Fl.Y.** period 4s	46 **14**	5		
17261 *N 4926.8*	---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	Round tower, two white bands, yellow "X" daymark; 20.	
17262 *N 4926.9*	---S. jetty, dolphin.	40° 44.8′ N 29° 45.4′ E	**Fl.Y.** period 3s fl. 1s, ec. 2s	33 **10**	5	Mast, "X" daymark; 23.	
17263 *N 4927*	--Kiler Burnu, oil terminal platform, W. dolphin.	40° 44.5′ N 29° 45.3′ E	**Mo.(U)R.** period 15s fl. 0.6s, ec. 0.3s fl. 0.6s, ec. 0.3s fl. 1.5s, ec. 11.7s	33 **10**	5	Mast; 23.	Synchronized with 17264. **Siren:** Mo.(U) ev. 30s (bl. 0.8s, si. 1s, bl. 0.8s, si. 1s, bl. 2.4s, si. 24s).
17264 *N 4927.4*	---E. dolphin.	40° 44.5′ N 29° 45.6′ E	**Mo.(U)R.** period 15s fl. 0.6s, ec. 0.3s fl. 0.6s, ec. 0.3s fl. 1.5s, ec. 11.7s	33 **10**	5	Mast; 23.	Synchronized with 17263.
17265 *N 4927.7*	---W. jetty.	40° 44.6′ N 29° 45.9′ E	**Fl.Y.** period 4s fl. 1s, ec. 3s	33 **10**	5	Mast, "X" daymark; 23.	Synchronized with 17265.1.
17265.1 *N 4927.8*	---E. jetty.	40° 44.5′ N 29° 46.1′ E	**Fl.Y.** period 4s fl. 1s, ec. 3s	33 **10**	5	Mast, "X" daymark; 23.	Synchronized with 17265.
17266 *N 7640.5*	--Platform.	40° 44.4′ N 29° 46.6′ E	**Fl.R.** period 4s	26 **8**	5	Platform.	
17272 *N 4928*	--Zeytun Burnu, extremity of point.	40° 44.5′ N 29° 47.0′ 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. **AIS** (MMSI No 992711057).
17274 *N 7641*	--Platform.	40° 44.3′ N 29° 47.0′ E	**Fl.W.** period 4s	26 **8**	5	Platform.	
17274.5 *N 7642*	--Platform.	40° 44.4′ N 29° 47.4′ E	**F.R.**		10	Platform.	
17274.51 *N 4930.04*	--Safi Derince, No 3 Quay, dolphin.	40° 44.8′ N 29° 49.5′ E	**Fl.Y.** period 3s fl. 0.5s, ec. 2.5s	30 **9**	5	Round tower; 16.	
17274.6 *N 4930*	--Derince Burnu, W. head.	40° 44.8′ N 29° 49.6′ E	**Fl.(5)R.** period 20s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 11s	33 **10**	4	Round tower.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			TURKEY				
17274.7 *N 4930.05*	---E. head.	40° 44.8´ N 29° 49.9´ E	**Fl.(3)R.** period 9s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 5.5s	33 **10**	7	Round tower, three white bands.	
17275 *N 4930.1*	--Hacibayram Burnu.	40° 45.0´ N 29° 51.3´ E	**Fl.W.** period 5s fl. 1s, ec. 4s	26 **8**	5	White mast, black bands; 20.	
17278 *N 4929.9*	--Batak Burun, pier, head.	40° 43.9´ N 29° 51.3´ E	**Fl.(4)G.** period 10s	33 **10**	3	Round tower; 23.	
17279 *N 4930.15*	--Sirintepe, jetty, head.	40° 45.3´ N 29° 51.9´ E	**Fl.(3)Y.** period 8s	26 **8**	3		
17280 *N 4929*	--Golcuk Burnu.	40° 43.8´ N 29° 48.8´ E	**Fl.W.** period 3s fl. 1s, ec. 2s	29 **9**	8	White concrete tower; 16.	F.R. lights shown on pier 700 meters W. **AIS** (MMSI No 992711059).
17282 *N 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 *N 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	Round tower, yellow "X" topmark; 20.	
17284 *N 4922*	**--Yelkenkaya Burnu.**	40° 45.4´ N 29° 21.3´ E	**Fl.W.** period 15s fl. 1.5s, ec. 13.5s	66 **20**	**18**	White concrete tower, building; 49.	**AIS** (MMSI No 992711056).
17285 *N 4921*	--Cayirova, pier.	40° 48.1´ N 29° 20.6´ E	**Fl.Y.** period 3s	26 **8**	3	SPECIAL Y, post, "X" topmark; 20.	
17286 *N 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, concrete base; 23.	**AIS** (MMSI No 992711052).
17287 *N 4920.5*	-Tuzla Korfezi, breakwater, head.	40° 48.7´ N 29° 17.8´ E	**Fl.R.** period 5s	39 **12**	5	Metal tower, black band; 30.	**AIS** (MMSI No 992711049).
17288 *N 4919*	--Inner harbor, N. breakwater, head.	40° 52.4´ N 29° 06.2´ E	**Fl.G.** period 5s	16 **5**	5	White metal framework tower; 10.	
17288.1 *N 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 *N 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.	**AIS** (MMSI No 992711350).
17289.1 *N 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.	**AIS** (MMSI No 992711349).
17294 *N 4916.4*	-Aydinli Limani.	40° 51.6´ N 29° 15.4´ E	**Fl.(2)G.** period 5s fl. 0.3s, ec. 1s fl. 0.3s, ec. 3.4s	26 **8**	5	White concrete tower, green band; 20.	**AIS** (MMSI No 992711047).
17294.1 *N 4916.41*	--N. breakwater, head.	40° 51.3´ N 29° 16.2´ E	**Fl.(2)R.** period 5s	30 **9**	3		
17295 *N 4916.3*	-Aydinbey Yarimadasi, S. head.	40° 51.0´ N 29° 16.3´ E	**Fl.R.** period 5s fl. 1s, ec. 4s	23 **7**	8	White metal framework tower; 19.	**AIS** (MMSI No 992711050).
17296 *N 4916.2*	-Pendik, breakwater, head.	40° 52.8´ N 29° 06.0´ E	**Fl.G.** period 5s fl. 1s, ec. 4s	36 **11**	8	White concrete tower; 26.	**AIS** (MMSI No 992711051).
17297 *N 4916.1*	-Pendik Burnu, breakwater, head.	40° 52.1´ N 29° 14.4´ E	**Fl.(3)W.** period 10s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	16 **5**	7	7.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			TURKEY				
17300 *N 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 *N 4916.9*	-Buyukada.	40° 52.5′ N 29° 07.5′ E	**Fl.(4)Y.** period 10s	23 **7**	3		
17300.6 *N 4916.85*	-Ferry Pier.	40° 52.6′ N 29° 07.7′ E	**Iso.Y.** period 3s	23 **7**	3		
17300.65 *N 4916.8*	-Bank, N. side.	40° 52.5′ N 29° 07.9′ E	**Fl.(3)Y.** period 8s	23 **7**	5		
17301 *N 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 *N 4917.2*	- -N. mole, head.	40° 52.4′ N 29° 06.3′ E	**Fl.G.** period 3s	20 **6**	3	White round tower; 7.	
17302 *N 4917.5*	- -Boat harbor, mole, head.	40° 52.9′ N 29° 06.1′ E	**Fl.G.** period 3s fl. 1s, ec. 2s	20 **6**	7	White metal framework tower; 10.	
17303 *N 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 *N 4917.8*	- -Pier, head.	40° 52.9′ N 29° 04.2′ E	**Fl.(4)Y.** period 15s	23 **7**	3		
17304 *N 4915*	-Dilek Kayaligi.	40° 54.9′ N 29° 05.3′ E	**Q.(6)+L.Fl.W.** period 15s	30 **9**	10	S. CARDINAL YB, beacon, topmark; 20.	Electric lights mark power cable between Chamasir Burnu, Prinkipo, and Halki.
	-RACON		**B(– • • •)**		**20**		**AIS** (MMSI No 992711390).
17316 *N 4918*	-Sivriada.	40° 52.5′ N 28° 58.2′ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	312 **95**	13	White column, building; 10.	
	-RACON		**O(– – –)**				
17317 *N 4917.9*	Kinaliada, ferry pier.	40° 54.6′ N 29° 03.4′ E	**Iso.Y.** period 2s	23 **7**	3		
17320 *N 4914*	-Yildiz Kayaligi.	40° 56.2′ N 29° 05.2′ E	**V.Q.(9)W.** period 10s	16 **5**	10	W. CARDINAL YBY, beacon, topmark; 13.	**AIS** (MMSI No 992711391).
17324 *N 4913*	-S. breakwater, head.	40° 57.0′ N 29° 05.7′ E	**Fl.R.** period 2s fl. 0.3s, ec. 1.7s	20 **6**	7	White concrete tower; 16.	**AIS** (MMSI No 992711135).
17324.5 *N 4912.5*	-Bostanci, pier, head.	40° 57.1′ N 29° 05.6′ E	**Fl.G.** period 3s	23 **7**	3		
17328 *N 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, dwelling; 65.	**AIS** (MMSI No 992711104).
17336 *N 4912*	Oreke tasi.	40° 58.0′ N 29° 01.8′ E	**Q.(2)W.** period 5s	16 **5**	3	White concrete tower; 13.	
17337 *N 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 *N 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 *N 4909*	-Marina, W. breakwater, head.	40° 58.6′ N 29° 02.1′ E	**Fl.G.** period 10s fl. 1s, ec. 9s		3		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			TURKEY				
17339 *N 4909.2*	--E. breakwater, head.	40° 58.6´ N 29° 02.2´ E	**Fl.R.** period 10s fl. 1s, ec. 9s		3		
17339.1 *N 4908*	-Moda Burnunda, jetty, head.	40° 58.7´ N 29° 01.4´ E	**F.R.**				
	BOSPORUS:						
17340 *N 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, building; 95.	**Horn:** 1 bl. ev. 20s (bl. 4s, si. 16s).
17344 *N 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 concrete tower; 11.	F.R. shown from NW. corner of passenger quay.
17348 *N 4906.2*	--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 *N 4904*	--Outer detached breakwater, NW. extremity.	41° 00.6´ N 29° 00.1´ E	**Fl.G.** period 3s fl. 1s, ec. 2s	49 **15**	8	White concrete tower; 26.	
	--RACON		**G(– – •)**				(3 & 10cm).
17356 *N 4904.2*	---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 *N 4904.6*	Kadikoy, breakwater, head.	40° 59.6´ N 29° 00.9´ E	**Iso.W.** period 4s	46 **14**	13	White concrete tower; 36.	
17361 *N 4904.8*	-SE. pier, head.	40° 59.5´ N 29° 01.1´ E	**Fl.(4)Y.** period 15s	23 **7**	3		
17361.1 *N 4906.4*	- Kadikoy, ferry pier.	40° 59.5´ N 29° 01.3´ E	**Iso.Y.** period 4s	23 **7**	3		
17361.2 *N 4906.6*	--Pier, head.	40° 59.6´ N 29° 01.3´ E	**Fl.(4)Y.** period 12s	23 **7**	3		
17362 *N 4906.8*	-Haydarpasa, jetty.	40° 59.8´ N 29° 01.1´ E	**Fl.(4)Y.** period 16s	23 **7**	3		
17364 *N 4907*	--Harem Vapur Iskele, S. breakwater, head.	41° 00.6´ 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 *N 4907.1*	---E. breakwater, head.	41° 00.7´ N 29° 00.5´ E	**Iso.Y.** period 3s	23 **7**	3		
17368 *N 4907.2*	---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 *N 4907.3*	---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 *N 4903.8*	-Leander Tower (Kizkulezi), strait, E. side.	41° 01.3´ N 29° 00.2´ E	**Fl.W.R.** period 3s fl. 0.3s, ec. 2.7s	36 **11**	W. 14 R. 11	White metal tower, red band, building; 30.	W. 000°-030°, R.-000°. Lights mark power cable between Kizkulezi and Saray Burnu. Navigation control station.
17376 *N 4936.4*	-Bridge center.	41° 02.8´ N 29° 02.1´ E	**Q.W.**	210 **64**			R. lights mark shore towers.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			TURKEY				
17380 *N 4936.5*	-Channel, NW. side.	41° 02.7′ N 29° 01.9′ E	**Q.Y.**	210 **64**			
17384 *N 4936.55*	--SE. side.	41° 02.6′ N 29° 02.1′ E	**Q.Y.**	210 **64**			
17388 *N 4903.7*	-Salipazari Rihtimi.	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 bands; 33.	
17389 *N 4903.75*	-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		
17392 *N 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 *N 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	33 **10**	7	White metal framework tower; 39.	
17400 *N 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 tower, red bands; 33.	
17404 *N 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 metal tower, green band; 16.	
17408 *N 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 tower, green band; 30.	
17412 *N 4944*	-Kandilli Burnu, strait, E. side.	41° 04.4′ N 29° 03.4′ 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. **AIS** (MMSI No 992711024).
17414 *N 4945*	-Pier.	41° 04.5′ N 29° 03.5′ E	**Fl.(4)Y.** period 20s	23 **7**	3		
17416 *N 4941*	-Bebek, bank. N. extremity.	41° 04.6′ N 29° 02.8′ 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 *N 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 round metal tower, green bands; 16.	Reserve light range 4M.
17421 *N 4946.1*	-Anadolu Hisari.	41° 05.0′ N 29° 04.0′ E	**Fl.(4)Y.** period 10s	23 **7**	3		
17422 *N 4946.2*	-Fatih Sultan Mehmet Bridge, center.	41° 05.5′ N 29° 03.7′ E	**Oc.W.** period 3s lt. 2s, ec. 1s	222 **68**			Fl.R. lights mark shore towers.
17422.4 *N 4946.4*	--Channel, W. side.	41° 05.5′ N 29° 03.5′ E	**Oc.R.** period 6s lt. 5s, ec. 1s	220 **67**			
17422.6 *N 4946.6*	---E. side.	41° 05.5′ N 29° 03.8′ E	**Oc.Y.** period 6s lt. 5s, ec. 1s	220 **67**			

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			TURKEY				
17424 *N 4947*	-Balta Limani.	41° 06.0´ N 29° 03.2´ E	**Fl.G.** period 3s fl. 1s, ec. 2s	39 **12**	5	White metal tower, green band; 33.	
17428 *N 4948*	-Kanlica Burnu, strait, E. side.	41° 06.1´ N 29° 04.0´ E	**Fl.(2)R.** period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	39 **12**	8	White metal framework tower; 36.	Reserve light range 6M.
17432 *N 4949.4*	-Pasabahce, near factory.	41° 06.9´ 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 round metal tower; 39.	
17436 *N 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 metal tower, green bands; 33.	
17438 *N 4949.6*	-Yenikoy.	41° 07.4´ N 29° 04.4´ E	**Q.(3)W.** period 10s	20 **6**	6	E. CARDINAL BYB, column, topmark; 20.	
17444 *N 4949.5*	-Incirkoy.	41° 07.6´ N 29° 05.8´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	52 **16**	8	Metal framework tower; 39.	
17445 *N 4949.55*	-Beykoz.	41° 08.1´ N 29° 05.4´ E	**Fl.(4)Y.** period 12s	23 **7**	3		
17452 *N 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 bands; 30.	
17456 *N 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	White metal tower; 33.	
17457 *N 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 992711021).
17460 *N 4949.8*	- -Jetty extension.	41° 08.9´ N 28° 04.4´ E	**F.G.**	23 **7**		White concrete tower, concrete base.	
17468 *N 4952*	-Buyukdere.	41° 09.8´ N 29° 02.9´ E	**Fl.G.** period 3s fl. 1s, ec. 2s	33 **10**	9	White metal tower, green band; 30.	
17472 *N 4953.2*	-Overhead cable, E. head.	41° 10.0´ N 29° 05.2´ E	**2 Fl.R.** period 2s **F.R.**	817 **249**	11	Red and white framework pylon; 407.	
17476 *N 4953*	- -W. head.	41° 10.6´ N 29° 04.2´ E	**2 Fl.R.** period 2s **F.R.**	797 **243**	11	Red and white framework pylon; 407.	
17480 *N 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 *N 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 metal tower, green band, concrete base; 26.	
	-RACON		**B(– • • •)**				(3 & 10cm).
17488 *N 4955.4*	-Cali Burnu.	41° 12.4´ N 29° 06.3´ E	**Fl.(3)G.** period 15s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 8s	108 **33**	5	White metal framework tower; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			TURKEY				
17490 *N 4955.3*	-Poyraz Burnu, W. breakwater, head.	41° 12.3′ N 29° 07.5′ E	**Fl.R.** period 4s	52 **16**	5		
17496 *N 4956*	**-Rumeli Burnu.**	41° 14.1′ N 29° 06.7′ E	**Fl.(2)W.** period 12s fl. 1s, ec. 3s fl. 1s, ec. 7s	190 **58**	**18**	White concrete tower, building; 98.	**Horn:** 1 bl. ev. 20s (bl. 4s, si. 16s).
17500 *N 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 *N 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 *N 4958*	**-Anadolu.**	41° 13.0′ N 29° 09.1′ E	**L.Fl.W.** period 20s fl. 2s, ec. 18s	246 **75**	**20**	White concrete tower, dwelling; 66.	
	-RACON		**C(– • – •)**				(3 & 10cm).
17512 *N 4960*	-Yom Burnu FOG SIGNAL.	41° 13.3′ N 29° 10.2′ E					**Siren:** 2 bl. ev. 20s.
17516 *N 4962*	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	75 **23**	W. 10 R. 7	White metal framework tower; 20.	W. 105°-162°, R.-175°, W.-346°, R.-105°. **AIS** (MMSI No 992711036).
			TURKEY-BLACK SEA				
17520 *N 4964*	**Karaburnu.**	41° 20.9′ N 28° 40.9′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	177 **54**	**15**	White metal framework tower; 39.	**AIS** (MMSI No 992711077).
17524 *N 4965*	Kiyikoy.	41° 38.0′ N 28° 06.0′ E	**Fl.W.** period 10s fl. 1s, ec. 9s	121 **37**	12	White metal tower, black band; 49.	**AIS** (MMSI No 992711076).
17525 *N 4965.1*	-Main breakwater, head.	41° 37.9′ N 28° 06.1′ E	**Fl.G.** period 5s fl. 1s, ec. 4s	23 **7**	5	White concrete tower, green band, metal framework pylon; 16.	**AIS** (MMSI No 992711074).
17525.5 *N 4965.2*	-Secondary breakwater, head.	41° 37.9′ N 28° 06.1′ E	**Fl.R.** period 5s fl. 1s, ec. 4s	23 **7**	5	White concrete tower, red band; 13.	**AIS** (MMSI No 992711075).
17528 *N 4966*	**Igneada Burnu.**	41° 53.2′ N 28° 03.4′ E	**Fl.(2)W.** period 15s fl. 0.3s, ec. 4.7s fl. 0.3s, ec. 9.7s	144 **44**	**20**	White concrete tower, dwelling; 26.	**AIS** (MMSI No 992711070).
17532 *N 4966.4*	-E. breakwater, head.	41° 53.2′ N 28° 01.2′ E	**Fl.G.** period 3s	39 **12**	12	White concrete tower, green band.	**AIS** (MMSI No 992711071).
17536 *N 4966.6*	-W. breakwater, head.	41° 53.2′ N 28° 01.2′ E	**F.R.** period 5s fl. 1s, ec. 4s	39 **12**	12	White concrete tower, red band; 42.	**AIS** (MMSI No 992711072).
			BULGARIA				
17540 *N 4968*	Akhtopol.	42° 05.9′ N 27° 56.9′ E	**Q.(6)+L.Fl.W.** period 15s	49 **15**	5	Black concrete tower, framework structure, yellow top; 36.	
17544 *N 4969*	Michurin (Tzarevo), on rock.	42° 09.5′ N 27° 52.3′ E	**Fl.W.** period 3.5s		4		
17548 *N 4971*	-Breakwater, head.	42° 10.0′ N 27° 52.0′ E	**Iso.G.** period 4s	39 **12**	2	White round stone tower, trapezoidal base; 30.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			BULGARIA				
17552 *N 4972*	Primorsko, pier, head.	42° 16.0´ N 27° 45.5´ E	**Iso.W.** period 6s	26 **8**	6	White round tower, pedestal; 20.	
17556 *N 4974*	**Maslen Nos.**	42° 18.5´ N 27° 47.3´ E	**Fl.(3)W.** period 17.2s fl. 0.4s, ec. 4s fl. 0.4s, ec. 4s fl. 0.4s, ec. 8s	123 **37**	**20**	White stone tower; 23.	
	BURGASKI ZALIV:						
17564 *N 4976*	**-Sveti Ivan.**	42° 26.3´ N 27° 41.5´ E	**Fl.(2)W.** period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	144 **44**	**20**	White round concrete tower, building; 43.	**Horn:** Mo.(H) ev. 30s (bl. 3s, si. 2s, bl. 3s, si. 2s, bl. 3s, si. 2s, bl. 3s, si. 12s).
17572 *N 4980*	-Ostrov Bolshevik.	42° 28.1´ N 27° 33.2´ 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°.
17577 *N 4981.3*	-Rossentz, pier, head.	42° 27.3´ N 27° 32.0´ E	**L.Fl.R.** period 20s fl. 4s, ec. 16s	23 **7**	5	White concrete platform; 16.	
	-Burgas:						
17580 *N 4984*	--E. breakwater, head.	42° 28.9´ N 27° 29.0´ E	**Fl.W.** period 3s fl. 1s, ec. 2s	79 **24**	14	White round concrete tower, red bands; 46.	Visible 253°-153°. **Horn:** Mo.(B) ev. 30s (bl. 5s, si. 3s, bl. 1.5s, si. 3s, bl. 1.5s, si. 3s, bl. 1.5s, si. 11.5s).
17581 *N 4983*	--Terminal 2A.	42° 28.7´ N 27° 28.0´ E	**Fl.W.** period 11s fl. 0.5s, ec. 10.5s	30 **9**	4		
17582 *N 4983.5*	--Breakwater, head.	42° 28.4´ N 27° 28.6´ E	**Fl.W.** period 4s fl. 1s, ec. 3s	36 **11**	11		
17583 *N 4983.8*	---Spur.	42° 28.9´ N 27° 28.8´ E	**Fl.R.** period 4s fl. 1s, ec. 3s	30 **9**	4		
17584 *N 4986*	--Arm extending W. from E. breakwater.	42° 29.0´ N 27° 28.9´ E	**Iso.G.** period 4s	33 **10**	2	White round metal tower; 20.	Visible 333°-213°.
17588 *N 4988*	--W. breakwater, E. head.	42° 29.0´ N 27° 28.8´ E	**Iso.R.** period 4s	33 **10**	2	White round metal tower; 20.	
17589 *N 4988.5*	--Pobeda, pier, head.	42° 28.7´ N 27° 27.0´ E	**L.Fl.W.** period 4.5s fl. 2.5s, ec. 2s	30 **9**	4	Red beacon, yellow band; 20.	
17604 *N 4990*	Pomorie, SE. reef.	42° 33.1´ N 27° 39.7´ E	**Q.(3)W.** period 10s	39 **12**	10	Black round stone tower, yellow band, pedestal; 26.	
17608 *N 4994*	Nesebur.	42° 39.1´ N 27° 43.7´ E	**Fl.R.G.** period 8s	33 **10**	R. 7 G. 5	Metal framework tower; 20.	R. 240°-285°, G.-240°.
17612 *N 4996*	**Nos Emine.**	42° 42.0´ N 27° 54.0´ E	**Fl.W.** period 6s fl. 1.5s, ec. 4.5s	210 **64**	**20**	White round tower, dwelling; 30.	
	VARNENSKI ZALIV:						
17624 *N 5000*	**-Nos Galata.**	43° 10.3´ N 27° 56.7´ 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, beige stripes, dwelling; 72.	**Nautophone:** Mo.(W) ev. 30s (bl. 2s, si. 1s, bl. 4s, si. 1s, bl. 4s, si. 18s).
17628 *N 5004*	-Port Varna.	43° 11.2´ N 27° 55.3´ E	**Fl.W.** period 10s fl. 1s, ec. 9s	56 **17**	10	White round metal tower; 39.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			BULGARIA				
17632 *N 5006*	--S. breakwater, head.	43° 11.5′ N 27° 55.1′ E	**Iso.R.** period 4s	33 **10**	2	White round metal tower; 20.	
17633 *N 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 *N 5008.5*	-Yevksinogradskiy, mole, head.	43° 13.0′ N 27° 59.2′ E	**F.R.**	62 **19**	6	White round stone tower; 52.	
17642 *N 5008.6*	Nos Kavaklar.	43° 15.1′ N 28° 01.7′ E	**Fl.W.**	49 **15**	2	White metal column, platform; 43.	Shown May 15 to Oct. 10.
17648 *N 5010*	Bukhta Balchik, breakwater, head.	43° 24.1′ N 28° 09.9′ E	**L.Fl.R.** period 6.5s fl. 2.5s, ec. 4s	33 **10**	8	Red metal column, platform; 26.	
17652 *N 5011*	-Pier, root.	43° 25.0′ N 28° 21.3′ E	**Fl.W.** period 5s fl. 1.5s, ec. 3.5s	39 **12**	5	White metal column, black band, platform; 30.	
17656 *N 5012*	**Nos Kaliakra.**	43° 22.2′ N 28° 27.7′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	223 **68**	**21**	White stone tower, dwelling; 33.	
17660 *N 5016*	**Nos Shabla.**	43° 32.5′ 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, pedestal; 105.	
			ROMANIA				
17664 *N 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**	Four-sided stone tower; 138.	
17668 *N 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 framework tower; 69.	**Horn:** Mo.(U) ev. 40s (bl. 1.5s, si. 1s, bl. 1.5s, si. 1s, bl. 5s, si. 30s).
17672 *N 5019.5*	--Spur.	43° 48.1′ N 28° 35.8′ E	**Fl.G.** period 3s fl. 1s, ec. 2s	49 **15**	5	Gray stone building; 42.	
17684 *N 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 building; 42.	
17688 *N 5022*	**Capul Tuzla.**	43° 59.4′ 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		Visible 162°-192°.
	CONSTANTA:						
17690 *N 5027.2*	-Constanta Sud.	44° 06.5′ N 28° 39.9′ E	**Fl.R.** period 3.5s	16 **5**		Red rectangular daymark; 7.	**Radar reflector.**
17692 *N 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 *N 5026*	-Outer Harbor, E. breakwater, head.	44° 08.6′ N 28° 40.4′ 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 *N 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 tower; 32.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			ROMANIA				
17708 *N 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 tower; 32.	
17720 *N 5028.2*	-Tomas Portul, E.	44° 10.7´ N 28° 39.7´ E	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s	16 **5**	1	Red metal mast; 26.	**Radar reflector.**
17728 *N 5028*	-Marina, NE. side.	44° 10.7´ N 28° 39.8´ E	**Fl.G.** period 3.5s fl. 0.5s, ec. 3s	16 **5**	3	Green metal mast; 26.	**Radar reflector.**
17732 *N 5030*	**Cape Midia.**	44° 20.9´ N 28° 40.9´ E	**Fl.W.** period 5s fl. 1.5s, ec. 3.5s	118 **36**	**17**	White metal framework tower, red bands; 72.	
17733 *N 5030.2*	-Entrance.	44° 19.3´ N 28° 41.7´ E	**Fl.W.** period 5s fl. 1.5s, ec. 3.5s	82 **25**	10	White concrete tower; 59.	**Horn:** Mo.(U) ev. 40s (bl. 1.5s, si. 1s, bl. 1.5s, si. 1s, bl. 5s, si. 30s).
17736 *N 5031*	Gura Portita, fairway, S. side.	44° 40.6´ N 28° 59.3´ E	**Fl.W.** period 9s fl. 1s, ec. 8s	72 **22**	10	White metal framework tower, black bands; 75.	
	DANUBE RIVER ENTRANCES:						
17740 *N 5032*	**-Gura Sfintu Gheorghe.**	44° 53.9´ 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**	Three-sided tower; 164.	
17744 *N 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**	Round concrete tower; 157.	Visible 165°-045°. **Horn:** Mo.(U) 40s (bl. 1.5s, si. 1s, bl. 1.5s, si. 1s, bl. 5s, si. 30s). **Radar reflector.**
	-RACON				5		(3 & 10cm).
17745 *N 5034.2*	--S. breakwater, head.	45° 08.8´ N 29° 45.9´ E	**Fl.R.** period 5.5s fl. 0.7s, ec. 4.8s	30 **9**	7	Metal tower; 13.	
17745.5 *N 5034.4*	--N. breakwater, head.	45° 08.9´ N 29° 45.9´ E	**Fl.G.** period 5.5s fl. 0.7s, ec. 4.8s	30 **9**	7	Metal tower; 13.	
			UKRAINE				
17772 *N 5036*	**Ostrov Zmeinyy.**	45° 15.3´ N 30° 12.1´ E	**Fl.W.** period 4.5s fl. 1.5s, ec. 3s	194 **59**	**17**	White hexagonal tower; 59. Floodlit.	Reserve light range 15M.
17772.3 *N 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 *N 5038*	-Bystroye Girlo Range, front.	45° 20.5´ N 29° 45.9´ E	**Iso.R.** period 4s		8	Metal framework tower, black rectangular daymark; 39.	Visible 180°-350°.
17790.1 *N 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	Metal framework tower, black stripe, white rectangular daymark; 49.	Visible on range line only.
17808 *N 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; 49.	**Radar reflector.**
17820 *N 5053.6*	Ozero Shagany.	45° 40.4´ N 29° 53.2´ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	65 **20**	14	Red concrete tower, black trapezoidal daymarks; 52.	Reserve light range 7M.
17824 *N 5054*	Burnas.	45° 49.8´ N 30° 09.3´ E	**Iso.R.** period 2s	82 **25**	8	White stone structure, orange building; 43.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			UKRAINE				
17828 *N 5056*	**Budaki.**	45° 55.2′ N 30° 17.1′ E	**Fl.W.** period 5s fl. 1s, ec. 4s	125 **38**	**17**	Red four-sided metal tower, black square daymark, white stripe; 49.	Reserve light range 7M.
	DNESTROVSKIY LIMAN:						
17844 *N 5060.1*	-Tsaregradskoye Girlo.	46° 04.5′ N 30° 28.2′ E	**L.Fl.W.** period 7.5s fl. 3s, ec. 4.5s	112 **34**	**16**	Red metal framework tower, red rectangular daymark, white stripe, two white bands; 105.	Reserve light range 10M.
17848 *N 5068*	**Sanzheyskiy.**	46° 13.5′ N 30° 36.6′ E	**Fl.(2)G.** period 15s fl. 0.4s, ec. 3.2s fl. 0.4s, ec. 11s	135 **41**	**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 *N 5071*	-S. mole, head.	46° 18.9′ N 30° 40.8′ 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; 62.	Reserve light range 7M.
17864 *N 5071.4*	-N. mole, head.	46° 19.1′ N 30° 41.0′ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	39 **12**	4	Green round metal column, white band; 33.	
17868 *N 5072*	-Aleksandrouka, entrance Range, front.	46° 19.5′ N 30° 39.0′ E	**F.G.** (neon)	151 **46**	10	Black four-sided metal framework tower, white rectangular daymark, black stripe; 92.	Visible on range line only.
17872 *N 5072.1*	--Rear, about 0.7 km. 288°30′ from front.	46° 19.6′ N 30° 38.5′ E	**F.R.** (neon)	236 **72**	11	Black four-sided metal framework tower, white rectangular daymark, white lantern, black stripe; 95.	Visible on range line only.
	IL'ICHEVSK:						
17876 *N 5073*	-Severnyy Portovyy, inner N. mole, head.	46° 19.2′ 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 *N 5072.6*	--S. inner mole.	46° 19.1′ N 30° 40.5′ E	**L.Fl.R.** period 6s fl. 2s, ec. 4s	33 **10**	4	White round metal column, red bands; 26.	
17884 *N 5075*	-W. entrance, W. side.	46° 19.9′ N 30° 39.3′ E	**L.Fl.R.** period 6s fl. 2s, ec. 4s	20 **6**	4	Red metal column, white band; 26.	
17885 *N 5072.3*	--E. side.	46° 19.4′ N 30° 40.1′ E	**L.Fl.G.** period 6s fl. 2s, ec. 4s	26 **8**	2	Black metal column, white band; 20.	
17886 *N 5076.3*	-Ostrova Dambovyy, E. entrance, W. side.	46° 20.0′ N 30° 39.5′ E	**L.Fl.R.** period 6s fl. 2s, ec. 4s	39 **12**	4	White round metal column, red bands; 26.	
17888 *N 5076.4*	--E. side.	46° 20.0′ N 30° 39.7′ E	**L.Fl.G.** period 6s fl. 2s, ec. 4s	39 **12**	4	White round metal column, black bands; 26.	
17889 *N 5076.35*	--W. entrance, E. side.	46° 19.9′ N 30° 39.5′ E	**L.Fl.G.** period 6s	30 **9**	2	White round metal column, black bands; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			UKRAINE				
17892 *N 5076*	-Sukhoy Liman Range, front.	46° 20.8′ N 30° 39.3′ E	**F.G.**	131 **40**	2	Metal framework tower, white trapezoidal daymark, black stripe; 52.	Visible 340°42′-350°42′.
17896 *N 5076.1*	--Rear, 247 meters 345°42′ from front.	46° 20.9′ 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 *N 5076.8*	-Berth No 23.	46° 20.3′ N 30° 39.0′ E	**L.Fl.R.** period 6s fl. 2s, ec. 4s	23 **7**	4	Red round metal column, white bands; 16.	
17899 *N 5077.5*	-Ferry Pier.	46° 20.6′ N 30° 39.1′ E	**Fl.G.** period 2s fl. 0.5s, ec. 1.5s	36 **11**	2	Black round metal column, white bands; 20.	
17899.1 *N 5077.3*	-RoRo berth.	46° 20.6′ N 30° 39.3′ E	**L.Fl.G.** period 6s fl. 2s, ec. 4s	26 **8**	4	White round metal column, black bands; 16.	
17899.5 *N 5077.55*	-Beacon.	46° 20.8′ N 30° 38.8′ E	**L.Fl.G.** period 6s	26 **8**	2	White round metal tower, concrete base; 16.	
17904 *N 5078*	**Odesskiy Zaliv.**	46° 22.7′ N 30° 44.8′ 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 four-sided framework tower, red bands; 138.	Visible 197°-047°. Reserve light Fl.W. 5s 9M. **Nautophone:** (370 meters SE.) 3 bl. ev. 30s. (bl. 2s, si. 4s, bl. 6s, si. 4s, bl. 2s, si. 12s). **Reserve Bell:** 2 strokes ev. 120s.
	ODESSA:						
17912 *N 5082*	**-Reydovyy,** approach Range, front.	46° 29.8′ N 30° 45.6′ 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 metal tower; 85.	Reserve light range 12M. **Nautophone:** 5 bl. ev. 60s (bl. 2s, si. 4s, bl. 7s, si. 4s, bl. 6s, si. 2s, bl. 4s, si. 8s, bl. 8s, si. 15s). **Reserve Bell:** 2 strokes ev. 120s.
17916 *N 5084*	**--Odesskiy Stvornyy,** rear, 1.93 km. 250°24′ from front.	46° 29.4′ N 30° 44.0′ E	**F.R.**	180 **55**	**18**	White four-sided wooden hut, building; 66.	F.W. 8M by day. Reserve light range 15M.
17920 *N 5086*	-Detached breakwater, E. head.	46° 29.7′ N 30° 45.4′ E	**Fl.G.** period 3s fl. 1s, ec. 2s	36 **11**	3	White metal framework tower; 30.	
17924 *N 5088*	--W. head.	46° 29.9′ N 30° 44.5′ E	**Fl.R.** period 3s fl. 1s, ec. 2s	36 **11**	3	White metal framework tower; 30.	
17928 *N 5090*	-Dredged channel Range, front.	46° 30.0′ N 30° 44.3′ E	**Fl.G.** period 3s	33 **10**	2	Metal framework tower, red diamond and red rectangular daymarks; 33.	Visible on range line only.
17932 *N 5090.1*	--Rear, 695 meters 274°36′ from front.	46° 30.0′ N 30° 43.8′ E	**F.G.** (neon)	82 **25**	3	Red pentagonal daymark; 72.	Visible on range line only.
17936 *N 5103*	-Neftyanaya Gavan', entrance Range, front.	46° 30.8′ N 30° 43.8′ E	**F.G.** (neon)	72 **22**	3	Metal framework tower, red rectangular daymark; 72.	Visible on range line only.
17940 *N 5103.1*	--Rear, 200 meters 327°36′ from front.	46° 30.9′ N 30° 43.8′ E	**F.R.** (neon)	95 **29**	3	Metal framework tower, red rectangular daymark; 85.	Visible on range line only.
17944 *N 5102*	--Auxiliary Range, front.	46° 29.9′ N 30° 44.7′ E	**Fl.G.** period 1.5s fl. 0.5s, ec. 1s	33 **10**	3	Concrete post, red pentagonal daymark; 33.	Visible on range line only.
17948 *N 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	Three-sided column, red pentagonal daymark; 49.	Visible on range line only.
17952 *N 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.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			UKRAINE				
17956 *N 5092*	--N. head.	46° 30.3′ N 30° 44.1′ E	**L.Fl.R.** period 6s fl. 2s, ec. 4s	39 **12**	3	White round concrete column; 33.	
17958 *N 5089*	-Potapovskiy, mole, head.	46° 29.8′ N 30° 44.4′ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	23 **7**	2	Green metal column; 16.	
17960 *N 5088*	--W. head.	46° 29.8′ N 30° 44.4′ E	**Fl.R.** period 3s fl. 1s, ec. 2s	36 **11**	3	White metal framework tower; 30.	
17964 *N 5100*	-Mole T-head, SE. head.	46° 30.6′ N 30° 44.2′ E	**Fl.Bu.** period 3s fl. 1s, ec. 2s	33 **10**	1	Silver round metal column; 26.	
17984 *N 5106*	**Mys Severnyy Odesskiy.**	46° 33.1′ N 30° 49.6′ E	**Fl.W.** period 5s fl. 1.5s, ec. 3.5s	184 **56**	**16**	White round concrete tower, orange column; 33.	Reserve light range 8M.
17988 *N 5107*	**Grigoryevskiy.**	46° 36.0′ N 31° 00.0′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	197 **60**	**18**	White round concrete tower, black square daymark, black triangular daymark point down; 49.	Visible 272°-060°. Reserve light range 8M.
17992 *N 5108*	**Sychavskiy.**	46° 37.0′ N 31° 07.2′ E	**Fl.W.** period 4s fl. 1.5s, ec. 2.5s	144 **44**	**15**	Gray metal framework tower, white building; 33.	Reserve light range 8M.
18000 *N 5110*	Mys Karabush.	46° 36.9′ N 31° 15.5′ E	**Fl.(2)W.** period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	180 **55**	14	White round concrete tower, black column; 52.	Reserve light range 5M.
18008 *N 5116*	Ostrov Berezan'.	46° 35.9′ N 31° 24.7′ E	**Fl.G.** period 3.5s fl. 0.5s, ec. 3s	92 **28**	4	Black four-sided framework tower; 23.	
	DNEPROVSKIY LIMAN:						
18016 *N 5118*	-Berezan'-Ochakov Range, front.	46° 36.5′ N 31° 32.4′ E	**Iso.R.** period 3s	126 **38**	14	White round masonry tower, black stripe, round daymark; 63.	Visible on range line only. Visible 339°-159°. Reserve light Iso.W. 3s 3M. Wind generator.
18020 *N 5118.1*	--Rear, 820 meters 068°54′ from front.	46° 36.7′ N 31° 33.0′ E	**Oc.R.** period 6s lt. 4.5s, ec. 1.5s	161 **49**	14	White round stone tower, black stripe; 66.	Visible 339°-159°. Reserve light Oc.W. 6s 4M. Wind generator. Storm signal.
18024 *N 5126*	-Viktorovka Range, front.	46° 37.6′ N 31° 26.9′ E	**F.R.**	62 **19**	12	White round concrete tower, orange rectangular daymark; 56.	Visible on range line only. Shown on request by day or in poor visibility.
18028 *N 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 four-sided framework tower, orange rectangular daymark, white hut; 52.	Visible 255°-015°. Shown on request by day or in poor visibility.
18044 *N 5128*	-Fort Nicolaev Range, front.	46° 34.4′ N 31° 33.5′ E	**F.R.**	45 **14**	5	White round tower; 40.	Visible 060°-140°. Shown by day in poor visibility.
18048 *N 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 metal framework tower, concrete base, black rectangular daymark, white stripe; 85.	G. 060°-140°, R. 171°- 187°, W. 190°-262°. Shown by day in poor visibility.
18056 *N 5136.1*	-Fifth Reach, W.	46° 35.4′ N 31° 32.8′ E	**Iso.W.** period 3s	92 **28**	3	Gray metal framework tower, concrete base, red rectangular daymark, black stripe; 92.	Intensified on bearing 268°18′.
18058 *N 5124*	-Kinburnskaya Kosa.	46° 34.5′ N 31° 30.8′ E	**Fl.W.** period 3s fl. 1s, ec. 2s	29 **9**	7	Black three-sided framework tower, black rectangular daymark; 26.	**Radar reflector.**

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			UKRAINE				
18060 *N 5137*	-Vostochnyy Range, front.	46° 35.7′ N 31° 49.2′ E	**Q.W.**	36 **11**	10	Gray metal framework tower, concrete base, orange rectangular daymark, black stripe; 52.	Reserve light range 3M.
18064 *N 5137.1*	--Rear, 3.5 km. 088°18′ from front.	46° 35.8′ N 31° 52.0′ E	**Iso.W.** period 3s	88 **27**	10	Gray metal framework tower, concrete base, orange rectangular daymark, black stripe; 92.	Reserve light range 3M.
18068 *N 5130*	-Adzhigol'skiy Range, front.	46° 36.0′ N 31° 38.7′ E	**Q.R.**	36 **11**	3	Gray four-sided concrete tower, red rectangular daymark; 33.	Intensified on bearing 069°06′. Shown 24 hours in autumn and winter.
18072 *N 5130.1*	--Middle, 5.17 km., 069°06′ from front.	46° 37.0′ N 31° 42.5′ E	**Iso.W.** period 4s	98 **30**	**17**	Red metal framework tower, concrete base, red rectangular daymark; 98.	Visible on range line only. Shown 24 hours in autumn and winter.
18076 *N 5130.2*	--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 rectangular daymark; 79.	Visible on range line only. Shown on request by day or in poor visibility.
18080 *E 5146*	-Adzhigiol'skay Kosy Range, front.	46° 36.7′ N 31° 47.8′ E	**Fl.R.** period 2.5s fl. 0.5s, ec. 2s	26 **8**	2	Four-sided stone tower, black rectangular daymark, white stripe; 23.	Visible 280°-050° Shown when lighted buoys are withdrawn.
18084 *N 5146.1*	--Rear, 160 meters 350° from front.	46° 36.8′ N 31° 47.8′ E	**Iso.W.** period 4s	33 **10**	4	White four-sided stone tower, black rectangular daymark, white stripe; 30.	Visible 280°-050°.
18088 *N 5149*	**-Stanislav** Range, front.	46° 30.7′ N 32° 09.1′ E	**F.R.**	79 **24**	**16**	Red metal framework tower; 79.	Visible on range line only. Shown by day in poor visibility.
	-Auxiliary.		**Dir.R.** period 1.5s		13		Fl.R. 106°45′-108°15′, F.R.-109°45′, Oc.R.-111°15′. Shown on request.
18092 *N 5149.1*	--Rear, 6.49 km. 109° from front.	46° 30.0′ N 32° 14.0′ E	**F.G.**	221 **67**	**19**	Red round metal framework tower, concrete base; 210.	Visible on range line only. Shown by day in poor visibility.
	REKA BUG:						
18095 *N 5181.9*	-Limanoozharskiy Range, front.	46° 38.3′ N 31° 55.7′ E	**Q.W.**	36 **11**	8	White concrete tower, red stripe; 36.	
18096 *N 5182*	--Mys Khablovskiy, middle, 4.8 km. 064°06′ from front.	46° 39.4′ N 31° 59.1′ E	**Iso.R.** period 6s	111 **34**	10	White four-sided stone tower, red stripe; 36. Floodlit.	Visible on range line only.
			Dir.R. period 1.5s		10		Oc.R. 061°51′-063°21′, F.R.-064°51′, Fl.R.-066°21′. Shown on request.
18100 *N 5182.1*	--Rear, 8.6 km. 064°06′ from front.	46° 40.3′ N 32° 01.8′ E	**F.W.**	190 **58**	**20**	Black four-sided stone tower, white stripe; 79.	Visible on range line only. Shown by day in poor visibility.
18110 *N 5192*	-Bugskiy Range, front.	46° 46.0′ N 31° 56.7′ E	**Iso.R.** period 3s	46 **14**	5	Metal pipe, black diamond on white rectangular daymark, black stripe; 43.	Visible 090° each side of range line.
18110.1 *N 5192.1*	--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 pipe, black diamond on white rectangular daymark, black stripe; 43.	
	REKA DNEPR:						
18164 *N 5152*	-Kizomys Range, front.	46° 33.8′ N 32° 18.7′ E	**F.R.** (neon)	49 **15**	12	White four-sided structure, orange rectangular daymark; 20.	Visible on range line only.
18168 *N 5152.1*	--Rear, 1630 meters 075°54′ from front.	46° 34.0′ N 32° 20.0′ E	**F.W.** (neon)	114 **35**	12	Four-sided metal framework tower, red trapezoidal daymark; 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 *N 5156*	-Malyy Kasperdvskiy Entrance Range, front.	46° 33.3′ N 32° 19.2′ E	**F.G.** (neon)	37 **11**	2	Post, black diamond daymark, white stripe, black daymark, white stripe; 36.	Visible on range line only.
18176 *N 5156.1*	--Rear, 500 meters 096°12′ from front.	46° 33.3′ N 32° 19.5′ E	**F.G.** (neon)	62 **19**	2	Post, black diamond daymark, white stripe, black daymark, white stripe; 62.	Visible on range line only.
18177 *N 5195*	-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 four-sided metal tower, white rectangular daymark, black stripe; 59.	Visible on range line only. Shown 24 hours in winter.
18177.1 *N 5195.1*	--Rear, 560 meters 222°30' from front.	46° 47.2′ N 31° 52.1′ E	**L.Fl.W.** period 5s fl. 4s, ec. 1s	217 **66**	5	Red four-sided metal tower, red rectangular daymark, black stripe; 72.	Visible on range line only.
18178 *N 5203.1*	-Rear, 480 meters 023°24' from front.	46° 55.6′ N 32° 01.6′ E	**F.R.**	131 **40**	10	Red four-sided framework tower, red rectangular daymark, white stripe; 43.	Visible 329°30′-315°30′. Shown by day in poor visibility.
			F.R.		10		Visible 022°39′-024°09′.
			Fl.R. period 5s		10		Visible 021°09′-022°39′ and 024°09′-025°39′.
18179 *N 5206*	-Pier, E. side.	46° 56.5′ N 31° 59.0′ E	**Fl.G.** period 1.5s fl. 0.5s, ec. 1s	36 **11**	1	Green round metal column; 16.	
18179.1 *N 5207*	--W. side.	46° 56.5′ N 31° 58.7′ E	**Fl.R.** period 1.5s fl. 0.5s, ec. 1s	36 **11**	1	Red round metal column; 16.	
18179.5 *N 5210*	Korenikhskiy Range, front.	46° 57.1′ N 31° 54.4′ E	**Q.G.**	118 **36**	4	Red four-sided metal tower, black rectangular daymark, white stripe; 36.	Visible on range line only.
18179.6 *N 5210.1*	-Rear, 197 meters 231°48′ from front.	46° 57.1′ N 31° 54.3′ E	**Iso.G.** period 4s	141 **43**	4	Red four-sided metal tower, black daymark, white stripe; 43.	Visible on range line only.
	TENDEROVSKAYA KOSA:						
18180 *N 5244*	-N. head.	46° 21.9′ N 31° 31.8′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	89 **27**	8	Red four-sided metal framework tower, black rectangular daymark; 66.	
18184 *N 5247*	-Tendrovskiy, S. side.	46° 15.8′ N 31° 34.1′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	36 **11**	7	Gray four-sided metal framework tower; 33.	
18188 *N 5246*	**-Tendrovskiy.**	46° 19.3′ N 31° 30.8′ E	**Oc.W.** period 12s lt. 9s, ec. 3s	95 **29**	**16**	White round tower, black bands; 102.	**Horn:** 2 bl. ev. 20.5s (bl. 1.8s, si. 1.8s, bl. 4.4s, si. 12.5s).
	-RACON		**TD(– – • •)** period 30s		**20**		(3cm).
18192 *N 5242*	-Kosa Belyye Kuchugury.	46° 14.8′ N 31° 39.8′ E	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s	49 **15**	5	Red four-sided framework tower, black daymark, white stripe; 39.	
18200 *N 5248*	-Tendrovskiy-Zheleznyy.	46° 09.9′ N 32° 04.3′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	43 **13**	9	White framework tower; 39.	**Radar reflector.**
18205 *N 5250*	Zheleznyy Port.	46° 06.7′ N 32° 19.1′ E	**Iso.R.** period 6s	69 **21**	11	White building, lantern; 39.	Visible 285°-105°.
18210 *N 5255*	Ostrov Dzharylhach.	46° 01.3′ N 33° 04.2′ E	**Fl.R.** period 5s fl. 0.5s, ec. 4.5s	85 **26**	11	White round metal tower; 85.	
18220 *N 5272*	Isaychava.	45° 41.6′ N 33° 02.4′ E	**L.Fl.W.** period 5s	49 **15**	11	Orange column, white band; 36.	Reserve light range 8M. **Radar reflector.**

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			UKRAINE				
18244 *N 5278*	**Mys Tarkhankut.**	45° 20.9′ 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 stone tower; 108.	Visible 168°-287°. Reserve light range 10M. **Horn:** 3 bl. ev. 30s.
18245 *N 7669*	Karkinitska Zatoka Gasfield Light.	45° 15.0′ N 31° 42.8′ E	**Fl.W.** period 5s		5	Platform.	
18248 *N 5280*	Popovka.	45° 17.7′ N 33° 02.2′ E	**L.Fl.W.** period 6s fl. 2s, ec. 4s	73 **22**	14	Four-sided framework tower, white rectangular daymark, black stripe; 46.	Reserve light range 7M. **Radar reflector.**
18249 *N 5279.5*	Donuzlev Range, front.	45° 22.2′ N 33° 04.0′ E	**Iso.W.** period 2s	56 **17**	13	Black four-sided framework tower, orange rectangular daymark; 39.	Reserve light range 10M.
18249.1 *N 5279.51*	-Rear, 1.5 miles 052°30′ from front.	45° 23.2′ N 33° 05.8′ E	**Oc.W.** period 5s	128 **39**	**15**	Black four-sided framework tower, orange rectangular daymark; 121.	Reserve light range 10M.
18250 *N 5281*	Vitino.	45° 12.6′ N 33° 09.3′ E	**Fl.W.** period 4s fl. 1s, ec. 3s	69 **21**	13	Black four-sided metal framework tower; 52.	Reserve light range 8M.
	YEVPATORIYSKIY:						
18252 *N 5282*	**-Mys Yevpatoriyskiy.**	45° 09.1′ N 33° 16.1′ 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; 171.	Visible 247°30′-123°48′. Reserve light Oc.(2)W. 12s 15M. **Radiobeacon.**
18255 *N 5284*	--Mys Karantinnyy.	45° 11.1′ N 33° 22.5′ E	**Iso.R.** period 1.6s	75 **23**	12	Red four-sided metal framework tower, white rectangular daymark, black stripe; 69.	Visible 280°-020°.
18258 *N 5285*	**Solodunova.**	45° 07.7′ N 33° 31.4′ E	**Fl.(2)R.** period 12s	89 **27**	**15**	Round metal tower, red and white bands; 72.	Visible 310°-150°. Reserve light range 6M.
18260 *N 5287*	Nikolayevka.	44° 58.5′ N 33° 36.0′ E	**Fl.R.** period 3s fl. 1s, ec. 2s	72 **22**	11	White four-sided stone tower; 36.	Visible 357°-167°.
18268 *N 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 four-sided framework tower, white rectangular daymark, black stripe; 52.	Reserve light range 12M.
18269 *N 5293*	Mys Marhopulo.	44° 47.5′ N 33° 32.1′ E	**Fl.R.** period 3s	95 **29**	9	Red round metal column, white band; 30.	**Radar reflector.**
18270 *N 5300*	**Lyubimovka.**	44° 42.4′ N 33° 33.0′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	213 **65**	**18**	Red four-sided metal framework tower, white rectangular daymark, black stripe; 46.	Reserve light range 12M.
18272 *N 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 *N 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.	Visible on range line only. Reserve light range 21M.
18276 *N 5302.5*	-N. Range, front.	44° 37.7′ N 33° 30.8′ E	**Oc.R.** period 6s lt. 4s, ec. 2s	62 **19**	14	Red metal column, white rectangular daymark, red stripe; 26.	Visible on range line only. Reserve light range 11M.
18278 *N 5303.5*	-Karantinnaya Bukhta Range, front.	44° 36.6′ N 33° 30.1′ E	**Oc.G.** period 2.3s	33 **10**	6	Orange rectangular daymark, white stripe; 23.	Other leading lights are shown in this bay.
18279 *N 5303.51*	--Rear, 100 meters158°48′ from front.	44° 36.5′ N 33° 30.1′ E	**Oc.G.** period 2.3s	59 **18**	6	Conical metal tower, white and orange bands; 20.	Visible on range line only. **Radar reflector.**
18280 *N 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; 115.	Visible 128°-188°. Reserve light range 6M.
18281 *N 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; 102.	Visible 128°-188°. Reserve light range 6M.
18285 *N 5302.53*	-Inner habor range, front.	44° 37.0′ N 33° 35.3′ E	**Q.Y.**	66 **20**	1	White metal framework tower, white rectangular daymark, black stripe; 16.	Visible on range line only. On request.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			UKRAINE				
18286 *N 5302.535*	--Rear, 073°12′ from front.	44° 37.0′ N 33° 35.4′ E	**Q.Y.**	75 **23**	2	White metal framework tower, white rectangular daymark, black stripe; 16.	On request.
18316 *N 5305.5*	Manganari.	44° 35.5′ N 33° 25.0′ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	46 **14**	3	Green round metal column, concrete base; 26.	
18320 *N 5308*	**Mys Khersonesskiy.**	44° 35.0′ N 33° 22.7′ E	**Mo.(SW)W.** period 60s fl. 3s, ec. 3s fl. 3s, ec. 3s fl. 3s, ec. 6s fl. 3s, ec. 3s fl. 3s, ec. 6s fl. 6s, ec. 18s	111 **34**	**16**	White round stone tower; 118.	**Nautophone:** 2 bl. ev. 15s (bl. 3s, si. 4s, bl. 6s, si. 2s).
18324 *N 5309*	Mys Feilent.	44° 30.0′ N 33° 29.3′ E	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s	551 **168**	12	Red four-sided metal framework tower; 13.	Visible 282°-148°.
18326 *N 5310*	Kayabashi.	44° 29.4′ N 33° 33.3′ E	**Fl.W.** period 4s fl. 1s, ec. 3s	978 **298**	8	Three-sided black framework tower, white rectangular daymark, black stripe; 36.	Visible 120°-087°.
18336 *N 5314*	**Mys Sarych.**	44° 23.3′ N 33° 44.3′ E	**Iso.W.** period 6s	125 **38**	**17**	White round metal tower; 39.	Visible 276°-120°. **Reserve light range 16M.**
18340 *N 5316*	**Mys Aytodor.**	44° 25.8′ 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 stone tower; 30.	Visible 232°-071°. Reserve light F.G. 10M. **Radiobeacon.**
18344 *N 5320*	Yalta, mole, head.	44° 29.4′ N 34° 10.3′ E	**L.Fl.R.** period 7.5s fl. 3s, ec. 4.5s	48 **15**	13	White octagonal stone tower; 39.	Reserve light range 4M. Visible 076°-205° (13M),-076° (4M).
18350 *N 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	White round metal tower, four-sided metal framework, red bands; 30.	Reserve light range 4M.
18356 *N 5326*	Alushta.	44° 40.2′ N 34° 24.7′ E	**Fl.R.** period 4s fl. 1s, ec. 3s	26 **8**	4	Red metal tower, white bands; 13.	**Radar reflector.**
18360 *N 5328*	**Rybachiy.**	44° 45.7′ N 34° 35.0′ E	**Fl.W.** period 7.5s fl. 1.5s, ec. 6s	425 **130**	**18**	White round stone tower, red bands; 69.	
18362 *N 5328.5*	Mys Bashennyy.	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 *N 5329*	**Sudakskiy.**	44° 50.4′ N 34° 58.4′ E	**Fl.R.** period 5s fl. 1.5s, ec. 3.5s	75 **23**	**15**	Red four-sided metal tower, white rectangular daymark, black stripe; 43.	Reserve light range 10M.
18368 *N 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 stone tower; 39.	Visible 289°-058°. Reserve light range 16M.
18380 *N 5341*	Mys Kiik-Atlama.	44° 57.2′ N 35° 23.0′ E	**Fl.R.** period 5s fl. 1s, ec. 4s	525 **160**	4	White concrete tower, red bands; 20.	
	FEODOSIYSKIY ZALIV:						
18384 *N 5340*	**-Mys Il'inskiy.**	45° 00.8′ N 35° 25.2′ E	**L.Fl.(2)W.** period 15s fl. 3s, ec. 3s fl. 3s, ec. 6s	216 **66**	**21**	White round stone tower; 49.	Visible 212°-016°.
18396 *N 5353*	Hora Dyurmen.	45° 02.7′ N 35° 56.9′ E	**Fl.G.** period 3s	387 **118**	12	Black four-sided framework pyramid, lantern, gray building; 52.	Occasional.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			UKRAINE				
18404 *N 5352*	**Mys Chauda.**	45° 00.3´ N 35° 50.2´ E	**L.Fl.W.** period 24s fl. 6s, ec. 18s	121 **37**	**17**	White octagonal tower, dwelling; 52.	
18408 *N 5358*	Mys Kyz-Aul.	45° 03.6´ N 36° 22.4´ E	**Fl.G.** period 6s fl. 1.5s, ec. 4.5s		14	White octagonal stone tower, black stripes; 102.	Visible 253°-070°.
18412 *N 5361*	**Mys Takil.**	45° 06.3´ N 36° 26.7´ E	**Fl.W.** period 4s fl. 1s, ec. 3s	331 **101**	**15**	Black four-sided metal framework tower; 36.	
	KERCHENSKIY PROLIV:						
18436 *E 5616*	**-Mys Zheleznyy Rog** (R.).	45° 06.7´ N 36° 44.4´ E	**Iso.W.** period 3s	246 **75**	**22**	Four-sided metal framework tower, two black rectangular daymark; 52.	Reserve light range 18M.
18440 *N 5615*	-Mys Panagiya (R.).	45° 08.4´ N 36° 38.5´ E	**Fl.R.** period 5s fl. 0.5s, ec. 4.5s	236 **72**	7	Red metal column; 26.	
18448 *N 5370*	**-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 *N 5370.1*	**--Verkhni Pavkobski,** rear, 640 meters 356°36′ from front.	45° 18.6´ N 36° 27.2´ E	**F.R.**	344 **105**	**15**	Metal framework tower, black rectangular daymark; 49.	Visible on range line only.
18476 *N 5372*	-Bukhta Kamysh-Burunskaya Range, front, W. side entrance.	45° 14.3´ N 36° 24.9´ E	**F.G.**	98 **30**	8	White octagonal stone tower; 53.	Visible on range line only.
18480 *N 5372.1*	--Rear, 1,481 meters 217°30′ from front.	45° 13.7´ 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 *N 5374*	-Kamysh Burunskiy Range, front.	45° 16.8´ N 36° 24.6´ E	**F.R.**	105 **32**	10	White octagonal concrete tower, building; 39.	Visible on range line only.
18496 *N 5374.1*	**--Churubashskiy,** rear, 9.3 km. 246°48′from front.	45° 14.8´ N 36° 18.0´ E	**F.W.**	410 **125**	**17**	Four-sided metal framework tower, black rectangular daymark, red stripe; 102.	Visible 240°48′-252°48′. Reserve light F.W.
18499.1 *N 5374-4*	-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 *N 5374.41*	--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 *N 5374.42*	--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 *N 5375*	Kerch-Yenikalskiy.	45° 21.3´ N 36° 29.0´ E	**Fl.R.** period 2.5s fl. 0.5s, ec. 2s	23 **7**	2	Red metal column, gray hexagonal concrete base; 14.	
18552 *N 5376*	**-Tamanskiy Range** (R.), front.	45° 22.5´ N 36° 43.7´ E	**Fl.W.** period 3s fl. 1s, ec. 2s	72 **22**	**15**	Metal framework tower, white rectangular daymark, red stripe; 69.	Visible 180°30′-187°30′. Reserve light range 11M.
			F.R.		**18**		Visible on range line only. Reserve light range 11M.
18556 *N 5376.1*	--Rear, 7.0 km. 066°48′ from front.	45° 24.0´ N 36° 48.6´ E	**F.W.**	197 **60**	**25**	Four-sided metal framework tower, black rectangular daymark, red stripe; 141.	Visible on range line only. Reserve light range 8M.
18558 *N 5378*	-Chushkinskiy Range, front.	45° 19.2´ N 36° 38.6´ E	**F.R.**	43 **13**	12	White four-sided tower; 59.	Visible on range line only.
18559 *N 5378.1*	--Rear, 370 meters 194°18′ from front.	45° 18.6´ N 36° 38.4´ E	**F.R.**	75 **23**	12	White four-sided tower; 79.	Visible on range line only. Shown 24 hours in autumn and winter.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			UKRAINE				
18560 *N 5422*	**-Yenikal'skiy.**	45° 23.1′ N 36° 38.4′ 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 *N 5423.5*	-N. 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	26 **8**	2	Green round metal column, concrete base; 16.	
18570.1 *N 5423.6*	-S. 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	30 **9**	2	Red round metal column, concrete base; 16.	
			AZOVSKOYE MORE (SEA OF AZOV)				
18608 *N 5436*	**Ostrov Biryuchiy.**	46° 05.4′ N 34° 59.6′ E	**Fl.(2)W.** period 7.5s fl. 1.5s, ec. 1.5s fl. 1.5s, ec. 3s	88 **27**	**15**	White octagonal stone tower; 82.	
18628 *N 5448*	**Novokonstantinovskiy.**	46° 34.8′ N 35° 43.0′ E	**Fl.W.** period 6s		**16**	Red four-sided metal framework tower, concrete base; 72.	Seasonal.
18632 *N 5452*	Obitochnaya Kosa.	46° 29.6′ N 36° 06.7′ E	**Fl.W.** period 8s fl. 1.5s, ec. 6.5s	43 **13**	10	Red rectangular daymark; 39.	
18640 *N 5454*	**Nizhniy Berdyanskiy.**	46° 38.1′ 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**		(3cm).
18648 *N 5458*	**Berdyanski Verkhniy.**	46° 46.0′ N 36° 46.0′ 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 *N 5460*	-Detached breakwater, NW. head.	46° 44.5′ N 36° 45.9′ E	**Fl.(2)G.** period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	39 **12**	5	Green round metal column, white band; 36.	Seasonal.
18656 *N 5462*	-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 *N 5464*	-Range, front.	46° 45.2′ N 36° 46.8′ E	**F.R.**	95 **29**	12	Metal framework tower, white four-sided hut; 95.	Visible on range line only. Fl.R. 2s visible W. of range line, Oc.R. 2s visible E. of range line.
			F.R.		11		Visible on range line only. Occasional.
18664 *N 5464.1*	--Rear, 1.3 km. 040°48′ from front.	46° 45.7′ N 36° 47.4′ E	**F.R.**	207 **63**	12	White diamond and white square daymarks, black stripe; 66.	Visible on range line only.
	TAGANROGSKIY ZALIV:						
18680 *N 5472*	-Belosarayskiy Zaliv.	46° 52.9′ N 37° 19.4′ 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**		(3cm).
18716 *N 5492*	--S. mole, head.	47° 03.0′ N 37° 31.3′ E	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s	29 **9**	4	Hexagonal tower, red round daymark; 30.	

(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 *N 5490*	--N. mole, head.	47° 03.1′ N 37° 31.4′ E	**Fl.G.** period 3s	30 **9**	5	Green hexagonal tower; 19.	
18724 *N 5484*	--E. Entrance, 331°36′.	47° 03.8′ N 37° 30.7′ E	**Iso.R.** period 2s	66 **20**	10	Metal framework tower, white round daymark, white trapezoidal daymark; 62.	Visible on range line only. Seasonal.
	-Mariupol:						
18732 *N 5478*	--W. Entrance Range, front.	47° 03.3′ N 37° 30.3′ E	**F.G.**	89 **27**	14	Black framework structure, white square daymark; 92.	Visible on range line only.
			Iso.G. period 2s	89 **27**	14		White reflector.
18736 *N 5478.1*	---Middle, 0.92 mile 012°18′ from front.	47° 04.2′ N 37° 30.6′ E	**F.R.**	187 **57**	14	White four-sided tower, white two-story building; 77.	May be obscured within 4M. F.R. 5M (vertical strip) also visible (occasional).
			Oc.R. period 4.5s		14		Occasional.
			Fl.R. period 4.5s				Occasional.
18740 *N 5478.2*	---Rear, 1.55 miles 012°18′ from front.	47° 04.8′ N 37° 30.8′ E	**F.R.**	282 **86**	**15**	Black metal framework tower; 69.	Visible on range line only.
18744 *N 5482*	--Elbow of Vostochnyy Mole.	47° 02.9′ N 37° 30.2′ E	**Fl.(2)G.** period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	39 **12**	3	Green round metal column, white band, black square daymark; 36.	
18745 *N 5483*	--Zapadnyy mole, NE. head.	47° 02.9′ N 37° 30.1′ E	**Fl.(2)R.** period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	26 **8**	1	Red round metal column, white band; 20.	
18746 *N 5483.2*	---SW. head.	47° 02.7′ N 37° 29.9′ E	**F.R.**	20 **6**	1	Red round metal column; 13.	
18748 *N 5500*	--Razdelitel'nogo Pirsa.	47° 03.3′ N 37° 30.4′ E	**Fl.R.** period 1.5s fl. 0.5s, ec. 1s	30 **9**	1	Red metal column; 23.	
18749 *N 5501*	--Khlebnaya Havan.	47° 03.4′ N 37° 30.6′ E	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s	26 **8**	1	Red metal column; 23.	
18750 *N 5502*	--Remontnyy Basseyn, entrance, E. side.	47° 03.7′ N 37° 31.0′ E	**Fl.(2)G.** period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	30 **9**	1	Green round metal column, white band; 23.	
18751 *N 5504*	---W. side.	47° 03.7′ N 37° 30.9′ E	**Fl.(2)R.** period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	26 **8**	1	Red round metal column, white band; 23.	
18752 *N 5516*	--E. breakwater, elbow.	47° 04.9′ N 37° 34.8′ E	**Fl.(2)G.** period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	23 **7**	2	Green conical tower, white band; 10.	Seasonal.
	-Port Azovstal:						
18756 *N 5510*	--Approach Channel Range, front.	47° 05.1′ N 37° 35.1′ E	**F.G.**	72 **22**	8	Four-sided metal framework tower, white trapezoidal daymark; 72.	Visible on range line only. Seasonal.
18760 *N 5510.1*	---Middle, 0.84 mile 044° from front.	47° 05.8′ N 37° 36.0′ E	**F.G.**	174 **53**	8	Four-sided metal framework tower, white trapezoidal daymark; 121.	Visible on range line only.
18764 *N 5510.2*	---Rear, 1.7 miles 044° from front.	47° 06.4′ N 37° 36.8′ E	**F.G.**	217 **66**	8	Four-sided metal framework tower, white trapezoidal daymark; 112.	Visible on range line only.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			AZOVSKOYE MORE (SEA OF AZOV)				
18880 *N 5578*	**Kamyshevatskaya.**	46° 24.1´ N 37° 55.5´ E	**Fl.W.** period 13s fl. 1s, ec. 12s	95 **29**	**16**	White concrete tower, white rectangular daymark, red band; 49.	
18896 *N 5586*	**Akhtarskiy.**	46° 06.3´ N 38° 10.9´ E	**Fl.W.** period 6s fl. 1.5s, ec. 4.5s	62 **19**	**15**	Silver rectangular panel; 39.	Visible 080°-170°.
18904 *N 5594*	Achuyev, Reka Sladkoye, entrance, S. side.	45° 41.0´ N 37° 38.9´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	46 **14**	8	Black rectangular panel; 39.	Seasonal.
18928 *N 5606*	**Tyemryuk.**	45° 19.7´ 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°. Seasonal.

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 *N 5428*	**Mys Akhilleon.**	45° 26.4′ N 36° 47.2′ E	**Iso.R.** period 6s	207 **63**	**17**	Four-sided framework tower, two black rectangular daymarks; 66.	
18940 *N 5616.5*	**Yantarny.**	45° 06.8′ N 36° 52.5′ E	**Fl.W.** period 10s	99 **30**	**16**	Red four-sided metal framework tower; 20.	Reserve light range 9M.
18941 *N 5617.2*	Kubanskiy.	45° 03.5′ N 37° 04.0′ E	**Fl.W.** period 6s fl. 1s, ec. 5s	98 **30**	12	Red round metal column; 23.	Reserve light range 7M.
18942 *N 5617.5*	Blagoveshchenskiy.	44° 59.4′ N 37° 14.2′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	33 **10**	8	Red round column, white band 23.	**Radar reflector.**
	ANAPA:						
18944 *N 5618*	**-Mys Anapskiy.**	44° 53.2′ N 37° 18.0′ 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 *N 5632*	**Ostrov Utrish.**	44° 45.5′ N 37° 22.7′ E	**Iso.W.** period 3s	84 **26**	**15**	White round tower; 56.	Reserve light range 10M.
18972 *N 5632.5*	Mys Vtrishenok.	44° 42.5′ N 37° 27.3′ E	**L.Fl.W.** period 7s	46 **14**	12	White four-sided framework tower, white rectangular daymark; 33.	Reserve light range 8M.
18976 *N 5633*	Ozereyevskiy, river mouth, E.	44° 40.2′ N 37° 38.3′ E	**Fl.(2)W.R.** period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	79 **24**	W. 14 R. 9	Four-sided framework tower, white rectangular daymark; 33.	W. 291°-320°, R.-048°, W.-072°. Reserve light range W. 6M, R. 3M.
18978 *N 5634*	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	36 **11**	2	Red round metal column; 26.	
	NOVOROSSISYKAYA BUKHTA:						
18980 *N 5639*	-Kosa Sudzhukskaya, SE. of shoal.	44° 39.8′ N 37° 49.4′ E	**Fl.(2)R.** period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	38 **12**	9	White round concrete tower, gray base; 33.	**Radar reflector.**
18984 *N 5636*	**-Mys Doobskiy.**	44° 37.6′ N 37° 54.6′ E	**Fl.(3)W.** period 16.5s	328 **100**	**21**	White octagonal stone tower; 75.	Visible 325°-152°. Reserve light Oc.W. 7.5s 6M. **Nautophone:** 3 bl. ev. 20s (bl. 2s, si. 1s, bl. 4s, si. 2s, bl. 5s, si. 6s).
18988 *N 5640*	-Kabardinskiy Range, front.	44° 38.5′ N 37° 55.5′ E	**Iso.R.** period 4s	59 **18**	7	Four-sided metal framework tower, white rectangular daymark; 30.	Visible on range line only. Reserve light range 5M.
18992 *N 5640.1*	--Middle, 305 meters 130° from front.	44° 38.4′ N 37° 55.7′ E	**Iso.R.** period 4s	125 **38**	7	Four-side metal framework tower, white rectangular daymark; 33.	Visible on range line only. Reserve light range 5M.
18996 *N 5640.2*	--Rear, 0.65 km. 130° from front.	44° 38.3′ N 37° 55.9′ E	**Iso.R.** period 4s	295 **90**	7	Four-sided metal framework tower, white rectangular daymark; 30.	Visible on range line only.
19000 *N 5638*	-Mys Penay Range, front.	44° 40.8′ N 37° 52.9′ E	**Iso.G.** period 3s	108 **33**	9	Metal framework tower, white rectangular daymark, red stripe; 66.	Visible 305°-128°. Reserve light range 4M.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			RUSSIA				
19004 *N 5638.1*	--Rear, 425 meters 001°54′ from front.	44° 41.0′ N 37° 52.9′ E	**Iso.G.** period 3s	193 **59**	9	Four-sided metal framework tower, white rectangular daymark, red stripe; 33.	Visible on range line only. Reserve light range 7M.
19016 *N 5643*	-Mys Lyubvi.	44° 42.4′ N 37° 47.3′ E	**F.R.**	66 **20**	2	Yellow building, lantern; 49.	Visible 244°-296°. F.G. 1M on jetties 0.7 mile SSE.
19020 *N 5643.5*	-Mole, head.	44° 43.3′ N 37° 49.3′ E	**F.G.**	36 **11**	2	White round metal column; 16.	
19020.1 *N 5643.55*	--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 *N 5642.3*	-Pier, head.	44° 43.4′ N 37° 48.6′ E	**F.R.**		1	Red round column, white band; 13.	
19022 *N 5642.4*	-Wharf, SE. corner.	44° 43.4′ N 37° 48.8′ E	**Fl.R.** period 3s		1		
19023 *N 5642.5*	--S. corner.	44° 43.4′ N 37° 48.9′ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	26 **8**	1	White round column; 16.	
19024 *N 5642*	-Vostochnyy Mol Range, front.	44° 43.3′ N 37° 48.1′ E	**2 Iso.G.**(vert.) period 6s	79 **24**	10	White round concrete tower, red bands; 69.	Visible on range line only. 7 meters apart. Reserve light range 2M. **Horn:** 5 bl. ev. 60s (bl. 3s, si. 4s, bl. 8s, si. 4s, bl. 8s, si. 4s, bl. 8s, si. 4s, bl. 2s, si. 15s).
19028 *N 5642.1*	--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 four-sided stone tower, red stripe; 46.	Visible 321°42′-346°42′. Reserve light range 5M. Visible during day in poor visibility on leading line only.
19030 *N 5642.2*	-New Mole, head.	44° 43.1′ N 37° 48.3′ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	30 **9**	2	White round column; 13.	
19032 *N 5644*	-W. mole, head.	44° 43.4′ N 37° 47.8′ E	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s	46 **14**	3	Red concrete tower, white band; 36.	
19034	-Cabotage Mol, NE. corner.	44° 43.3′ N 37° 47.1′ E	**F.G.**		1		
19036 *N 5653.3*	--Spur.	44° 43.3′ N 37° 47.1′ E	**F.G.**	23 **7**	1	White round metal column; 16.	
19040 *N 5644.7*	-Head of pier, N. of E. mole.	44° 43.7′ N 37° 48.2′ E	**Fl.G.** period 3s		2		
19044 *N 5645*	-SRZ Pier, NW. corner.	44° 43.8′ N 37° 48.3′ E	**F.G.**	23 **7**	2	White round metal column; 20.	
19048 *N 5646*	-Importnyy Pir, SE. corner, head.	44° 43.7′ N 37° 48.1′ E	**F.G.**	30 **9**	1	White round metal column; 20.	
19048.1 *N 5646.2*	--NW. corner.	44° 43.7′ N 37° 48.1′ E	**F.G.**	30 **9**	1	White round metal column; 20.	
19048.5 *N 5646.6*	-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 *N 5646.62*	--SW. corner.	44° 43.7′ N 37° 47.8′ E	**F.G.**	23 **7**	2	White round metal column; 13.	
19049 *N 5647*	-Pier No 1, NE. corner.	44° 43.8′ N 37° 47.5′ E	**F.G.**	23 **7**	2	White round metal column; 13.	
19051 *N 5647.2*	--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		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			RUSSIA				
19052 *N 5652.6*	-Cold storage wharf, NE corner.	44° 43.5´ N 37° 46.7´ E	**F.G.**	20 **6**	1	White metal column, concrete base; 13.	
19056 *N 5652.62*	--SW. corner.	44° 43.4´ N 37° 46.7´ E	**F.G.**	20 **6**	1	White metal column, concrete base; 13.	
19058 *N 5653.75*	-Pier, N. side.	44° 43.0´ N 37° 49.8´ E	**F.G.**	52 **16**	4	Metal stand structure, stone structure; 7.	
19058.2 *N 5653.8*	--NW. side.	44° 43.0´ N 37° 49.9´ E	**F.R.**	26 **8**	2	White metal column, red bands; 13.	
19059 *N 5653.7*	--SW. elbow.	44° 42.9´ N 37° 49.9´ E	**F.W.**	36 **11**	3	White round metal column; 26.	
19068 *N 5654*	-Sheskharik Gavan', N. pier.	44° 42.1´ N 38° 49.9´ E	**F.G.**	72 **22**	1	Four-sided framework tower, lantern; 72.	A light is shown at each of N. and S. corners of head of pier and at root.
19072 *N 5654.44*	--SW. pier, head.	44° 42.1´ N 37° 50.1´ E	**Fl.G.** period 6s fl. 1s, ec. 5s	46 **14**	2	White metal column; 16.	
19075 *N 5655.8*	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 *N 5656*	**-Gelendzhikskiy Vkhodnoy.**	44° 33.0´ 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 *N 5660*	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 *N 5664.8*	**Arkhipo-Osipovka.**	44° 21.4´ N 38° 31.2´ E	**Fl.W.** period 3s fl. 1s, ec. 2s		**15**		Visible 292°-098°.
19100 *N 5666*	**Dzhubga.**	44° 18.4´ N 38° 42.4´ E	**L.Fl.R.** period 6s	98 **30**	**15**	Red tower, red rectangular daymark, white building; 39.	Visible 332°-098°. Reserve light Fl.R. 3s 5M.
	TUAPSE:						
19108 *N 5668*	**-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 *N 5671*	-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 *N 5670*	-Yuzhnyy Mol, head.	44° 05.2´ N 39° 04.1´ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	39 **12**	2	Green four-sided truncated metal framework tower, white band; 23.	
19116 *N 5672*	-Yugozapadnyy Volnolom, SE. end.	44° 05.2´ N 39° 04.0´ E	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s	36 **11**	2	Red four-sided tower, truncated framework structure, white band; 20.	
19120 *N 5674*	-Novyy Port Entrance Range, front.	44° 05.7´ N 39° 04.1´ E	**F.Bu.G.** (vert.) **F.G.** (vert.)	63 **19**	3	Four-sided metal truncated framework tower, white trapezoidal daymark; 56.	Visible on range line only. Auxiliary light Dir. 2 Fl.R. (hor.) 3.3s 3M. Reserve light F.Bu. 3M.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			RUSSIA				
19124 *N 5674.1*	--Rear, about 274 meters 006°30′ from front.	44° 05.8′ N 39° 04.1′ E	**F.R.** (vert.)	121 **37**	4	Four-sided metal truncated framework tower, white trapezoidal daymark; 36.	Visible on range line only. Auxiliary light F.R. 4M.
			F.Bu. (vert.)		3		
			F.G. (vert.)		3		
19126 *N 5682*	Ashe.	43° 58.3′ N 39° 15.0′ E	**Fl.W.** period 3s fl. 1s, ec. 2s	161 **49**	10	Building; 141.	Visible 325°-120°.
19128 *N 5684*	**Lazarevskoye.**	43° 54.3′ N 39° 20.8′ E	**Fl.W.** period 6s fl. 1.5s, ec. 4.5s	315 **96**	**20**	Four-sided metal framework tower, white rectangular daymark, red stripe; 49.	Visible 323°-130°. Reserve light Fl. 3s 12M.
19129 *N 5684.5*	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.	
19130 *N 5685*	Mys Uche-Dere.	43° 40.1′ N 39° 36.5′ E	**Fl.W.** period 2s fl. 0.2s, ec. 1.8s	105 **32**	9	Red framework tower, white building; 82.	
19131 *N 5685.5*	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 *N 5686*	**-Sochi** Range, front.	43° 34.7′ N 39° 43.2′ E	**Iso.G.** period 3s	120 **37**	**20**	White stone tower, dwelling; 49.	Visible 296°-161°, partially obscured 149°-161°.
19136 *N 5688*	--Rear, 540 meters 356°48′ from front.	43° 35.2′ N 39° 42.8′ E	**F.G.**	89 **27**	10	Black four-sided metal framework tower, white triangular daymark point down, white rectangular daymark,black stripe; 56.	Visible 299°-054°. Shown on request.
19140 *N 5689*	-Severnyy, N. mole, head.	43° 34.6′ N 39° 42.8′ E	**Fl.(2)R.G.** period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	69 **21**	1	Red round concrete tower, white band, gallery; 52.	R.170°-035°, G.-170°.
19148 *N 5690*	-Yuzhnyy, S. mole, head.	43° 34.7′ N 39° 42.9′ E	**Fl.G.** period 2s fl. 0.5s, ec. 1.5s	69 **21**	1	Gray metal framework tower; 56.	
19162 *N 5694*	Khosta.	43° 30.6′ N 39° 51.7′ E	**Iso.R.** period 2s	26 **8**	4	White round metal column, red band; 16.	
19163 *N 5696*	Kurortynyy Gorodok.	43° 28.2′ N 39° 53.5′ E	**Fl.G.** period 4s	26 **8**	3	White round metal column; 16.	
	REYD ADLER:						
19164 *N 5698*	-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 *N 5699.5*	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 *N 5699.53*	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 *N 5699.51*	-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 *N 5699.52*	- 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.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			GEORGIA				
19168 *N 5700*	Leselidze.	43° 23.1′ N 40° 01.1′ E	**Fl.R.** period 4.5s fl. 1.5s, ec. 3s	95 **29**	10	White metal pole; 79.	Visible 285°-094°. **Radar reflector.**
	GAGRINSKIY REYD:						
19172 *N 5706*	**-Gagrinskiy.**	43° 19.8′ N 40° 12.9′ E	**Fl.(2)W.** period 5s fl. 1s, ec. 1s fl. 1s, ec. 2s	285 **87**	**18**	Building, lantern; 69.	Visible 341°-105°.
19176 *N 5708*	-Range, front.	43° 19.6′ N 40° 13.5′ E	**F.R.**		3		
19180 *N 5708.1*	--Rear, 026° from front.	43° 19.5′ N 40° 13.6′ E	**F.R.**		3		
19192 *N 5718*	**Mys Pitsunda.**	43° 08.8′ N 40° 20.5′ 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, central column; 102.	Visible 269°-150°.
19200 *N 5721*	**Bambora.**	43° 05.6′ N 40° 36.3′ E	**Fl.W.** period 3s fl. 1s, ec. 2s	125 **38**	**16**	Building, lantern; 115.	Visible 275°-085°.
19204 *N 5724*	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 tower, hut, red rectangular daymark, white stripe; 13.	Visible 308°-041°.
19206 *N 5724.5*	Novyy Afon.	43° 05.1′ N 40° 49.0′ E	**Oc.W.** period 6s lt. 4s, ec. 2s	108 **33**	10	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 *N 5725*	Eshera.	43° 00.9′ N 40° 56.1′ E	**L.Fl.W.** period 6s fl. 2s, ec. 4s	108 **33**	14	Building; 89.	Visible 332°-130°.
	SUKHUMI:						
19212 *N 5726*	**-Mys Sukhumskiy.**	42° 58.9′ N 40° 58.3′ E	**L.Fl.(3)W.** period 15s	121 **37**	**17**	White round metal tower; 112.	Visible 236°42′-115°42′, faintly 116°-127°.
19214 *N 5727*	-Middle pier Range, front.	42° 59.7′ N 41° 01.4′ E	**F.G.**	46 **14**	3	Building white triangular daymark point up, trapezoidal daymark; 20.	Visible on range line only.
19214.1 *N 5727.1*	--Rear, 120 meters 352°48′ from front.	42° 59.8′ N 41° 01.4′ E	**F.G.**	56 **17**	3	Mast, white trapezoidal daymark; 49.	Visible on range line only.
19216 *N 5728*	-Range, front, SE. extremity of facade of fort, front.	42° 59.7′ N 41° 01.1′ E	**F.R.**	43 **13**	4	Metal post, concrete base, red triangular daymark point up, red rectangular daymark, white stripe; 36.	Visible on range line only. Storm signal.
19220 *N 5728.1*	--Rear, 95 meters 285°36′ from front.	42° 59.7′ N 41° 01.0′ E	**F.R.**	52 **16**	4	Metal post, red triangular daymark point down, rectangular daymark, white stripe; 33.	Visible on range line only.
19228 *N 5734*	Mys Kodori.	42° 50.8′ N 41° 06.3′ E	**Fl.R.** period 5s fl. 0.5s, ec. 4.5s	75 **23**	13	Black metal framework tower, white rectangular daymark, black stripe; 66.	Visible 330°-170°. **Radar reflector.**
19232 *N 5736*	Akhail Kindgi.	42° 47.2′ N 41° 17.4′ E	**Oc.W.** period 12s		12		Visible 325°-090°.
	OCHAMCHIRE:						
19234 *N 5738*	- 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.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			GEORGIA				
19234.1 *N 5738.1*	--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 *N 5742*	-Ochamchire.	42° 40.5′ N 41° 28.8′ E	**Fl.W.** period 3s fl. 1s, ec. 2s	65 **20**	13	White framework tower; 59.	Visible 344°-157°.
19252 *N 5744*	Gagida.	42° 31.0′ N 41° 31.9′ E	**Fl.W.** period 2s fl. 0.5s, ec. 1.5s	49 **15**	10	Framework tower, white rectangular daymark; 39.	Visible 354°-172°.
19256 *N 5746*	**Anaklia, Reka Ingur,** entrance.	42° 23.6′ N 41° 33.7′ E	**L.Fl.W.R.G.** period 15s	180 **55**	**20**	Building; 148.	Visible 330°-161°. Reserve light Iso.W. 3s 10M.
	POTI:						
19277 *N 5762*	-Entrance Range, front.	42° 09.6′ N 41° 38.9′ E	**Fl.R.** period 6s	56 **17**	5	Four-sided metal framework tower, white rectangular daymark, red stripe.	**Horn:** 2 bl. ev. 54s (bl. 6s, si. 12s, bl. 6s, si. 30s).
19277.1 *N 5762.1*	--Rear, 300 meters 129° from front.	42° 09.5′ N 41° 39.1′ E	**F.R.**	66 **20**	1	Four-sided framework tower, balcony, white rectangular daymark, red stripe.	
19280 *N 5749*	-Inner Range, front, S. mole, root.	42° 09.0′ N 41° 39.2′ E	**F.G.**	36 **11**	6	Orange rectangular daymark, black stripe; 49.	
19284 *N 5749.1*	**--Potiyskiy**, rear, 1.93 km. 158°54′ from front.	42° 08.0′ N 41° 39.7′ E	**Al.Fl.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° and 170°-207°.
19288 *N 5760*	-Outer breakwater, head.	42° 09.6′ N 41° 38.7′ E	**Fl.W.G.** period 3s fl. 0.5s, ec. 2.5s	43 **13**	W. 7 G. 4	White metal framework tower; 26.	W. 012°30′-116°, G.-012°30′.
19296 *N 5762.2*	-N. breakwater, S. spur, head.	42° 09.5′ N 41° 39.1′ E	**Fl.R.** period 5s fl. 0.5s, ec. 4.5s	23 **7**	1	White four-sided tower; 16.	
19300 *N 5763*	-Near center of harbor.	42° 09.5′ N 41° 39.1′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	23 **7**	5	Metal framework structure.	
19304 *N 5761*	-Elbow of breakwater, entrance, W. side.	42° 09.3′ N 41° 38.9′ E	**Fl.Bu.** period 4s fl. 0.5s, ec. 3.5s	23 **7**	3	White tower; 16.	Visible 163°12′-003°12′.
19313 *N 5763.6*	*Supsa SPM.*	42° 01.8′ N 41° 42.4′ E	**Mo.(U)W.** period 15s		10		**Horn:** Mo.(U) ev. 30s.
	RACON						
19314 *N 5764*	Natanebi.	41° 58.1′ N 41° 45.8′ E	**Fl.(2)R.** period 4s	131 **40**	7		Visible 355°-176°.
19320 *N 5765*	Kobuleti.	41° 51.1′ N 41° 46.7′ E	**Fl.(2)G.** period 3s		11	Building, lantern; 98.	Visible 018°-185°.
	BATUMI:						
19324 *N 5768*	-Bukhta Batumiyskaya, on Mys Burun Tabiya.	41° 39.3′ N 41° 38.5′ E	**Fl.R.** period 6s	65 **20**	14	White octagonal stone tower, dwelling; 66.	Visible 065°-310°. **Horn:** 5 bl. ev. 60s (bl. 7s, si. 4s, bl. 7s, si. 4s, bl. 6s, si. 2s, bl. 4s, si. 8s, bl. 8s, si. 10s).
19328 *N 5772*	-Petroleum Harbor Range, front.	41° 39.0′ N 41° 38.9′ E	**F.W.R.G.**	42 **13**	11	White round metal tower, balcony, black bands; 36.	W. 020°-149°, G.-176°, R.-260°.
19332 *N 5772.1*	--Rear, 1,300 meters 172°24′ from front.	41° 38.3′ N 41° 39.1′ E	**Fl.R.** period 2.5s fl. 0.5s, ec. 2s	130 **40**	12	Black truncated pyramid, two white rectangular daymarks; 16.	Visible on range line only.
19334 *N 5773*	-Range, front.	41° 39.0′ N 41° 39.0′ E	**F.Bu.**	72 **22**	4	White metal framework tower, black rectangular daymark, white stripe; 62.	Visible on range line only.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			GEORGIA				
19334.1 *N 5773.1*	--Rear, 330 meters 166°18′ from front.	41° 38.8′ N 41° 39.1′ E	**F.Bu.**	85 **26**	4	White metal framework tower, black rectangular daymark, white stripe; 79.	Visible on range line only.
19335 *N 5773.6*	-Range, front.	41° 39.2′ N 41° 38.6′ E	**F.R.**	75 **23**	4	White metal framework structure, two black trapezoidal daymarks, white stripe; 66.	Visible on range line only.
19335.1 *N 5773.61*	--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 point up, white stripe; 95.	Visible on range line only.
19336 *N 5770*	-Near root of Mys Burun Tabiya Mole, 210 meters 320° from Bukhta Batumyskaya.	41° 39.4′ N 41° 38.4′ E	**Fl.G.** period 5s fl. 1.5s, ec. 3.5s	82 **25**	2	Gray metal framework tower; 39.	Visible 108°-294°.
19338 *N 5774*	-Coaster Harbor, entrance.	41° 39.1′ N 41° 39.7′ E	**F.R.**	26 **8**	3	Brown metal framework tower; 20.	
19340 *N 5776*	Chorokh, entrance.	41° 36.7′ N 41° 34.9′ E	**Fl.R.** period 9s fl. 1.5s, ec. 7.5s	43 **13**	6	Red metal framework tower, white rectangular daymark, black stripe; 33.	Visible 015°-205°.
19344 *N 5779*	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; 89.	W. 027°-095°, R.-105°, W.-115°, G.-125°, W.-190°. Reserve light range W. 12M, R. 8M, G. 7M. **AIS** (MMSI No 992711300).
19348 *N 5779.1*	--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	Black metal pylon, white rectangular daymark, orange stripe; 102.	Visible 108°30′-111°30′.
			TURKEY-BLACK SEA				
19352 *N 5780*	**Hopa.**	41° 22.4′ N 41° 20.9′ E	**Fl.(2)W.** period 15s fl. 0.4s, ec. 4.6s fl. 0.4s, ec. 9.6s	75 **23**	**19**	Concrete tower, dwelling; 39.	**AIS** (MMSI No 992711299).
19357 *N 5780.5*	-Outer breakwater, head.	41° 25.2′ N 41° 25.8′ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	46 **14**	10	White concrete tower; 29.	**AIS** (MMSI No 992711298).
19360 *N 5780.6*	-Lee, breakwater.	41° 24.9′ N 41° 25.8′ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	46 **14**	10	White concrete tower; 30.	**AIS** (MMSI No 992711301).
19361 *N 5779.5*	Arhavi, Fishermans Shelter, main breakwater, head.	41° 21.1′ N 41° 17.6′ E	**Fl.G.** period 5s fl. 1s, ec. 4s	30 **9**	7	White concrete tower; 20.	**AIS** (MMSI No 992711296).
19361.5 *N 5779.51*	--Secondary breakwater, head.	41° 21.1′ N 41° 17.6′ E	**Fl.R.** period 5s fl. 1s, ec. 4s	30 **9**	7	White concrete tower; 20.	**AIS** (MMSI No 992711297).
19362 *N 5781.1*	Ardesen, breakwater, head.	41° 12.0′ N 40° 59.6′ E	**Fl.G.** period 5s fl. 1s, ec. 4s	26 **8**	6	White concrete tower; 20.	**AIS** (MMSI No 992711321).
19362.5 *N 5781.2*	-Inner breakwater, head.	41° 11.8′ N 40° 59.5′ E	**Fl.R.** period 5s fl. 1s, ec. 4s	26 **8**	6	White concrete tower; 20.	**AIS** (MMSI No 992711322).
19364 *N 5781*	Pazar.	41° 11.1′ N 40° 52.5′ E	**Fl.W.** period 5s fl. 1s, ec. 4s	52 **16**	10	White metal pylon, castle; 13.	**AIS** (MMSI No 992711326).
19365 *N 5780.7*	-N. breakwater, head.	41° 10.9′ N 40° 54.7′ E	**Fl.G.** period 3s fl. 1s, ec. 2s	39 **12**	5	White concrete tower; 26.	**AIS** (MMSI No 992711328).
19365.5 *N 5780.8*	-S. breakwater, head.	41° 10.9′ N 40° 54.6′ E	**Fl.R.** period 3s fl. 1s, ec. 2s	39 **12**	5	White concrete tower; 26.	**AIS** (MMSI No 992711327).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			TURKEY-BLACK SEA				
19366 *N 5781.51*	Cayeli, S. breakwater, head.	41° 05.4´ N 40° 43.3´ E	**Fl.R.** period 5s fl. 1s, ec. 4s	33 **10**	6	White concrete tower, tripod; 26.	**AIS** (MMSI No 992711323).
	RIZE:						
19368 *N 5782*	**-Piryos Burna.**	41° 02.5´ N 40° 30.4´ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	72 **22**	**18**	White metal framework tower, four-sided concrete base; 59.	**AIS** (MMSI No 992711325).
19369 *N 5782.5*	Mitikayasi Br, breakwater, head.	41° 00.9´ N 40° 21.7´ E	**Fl.R.** period 5s	26 **8**	3	Concrete tower; 3.	
19370 *N 5782.6*	-S. breakwater.	41° 01.0´ N 40° 21.7´ E	**Fl.G.** period 5s	26 **8**	5	Concrete tower; 3.	
19380 *N 5782.8*	Surmene, W. mole.	40° 55.0´ N 40° 11.6´ E	**F.G.**	33 **10**	4	White metal pylon; 20.	
19384 *N 5783*	Arakli Burnu.	40° 57.4´ N 40° 02.7´ E	**Fl.W.** period 5s fl. 0.4s, ec. 4.6s	115 **35**	8	White metal pylon; 39.	**AIS** (MMSI No 992711342).
19385 *N 5782.9*	-N. breakwater, head.	40° 56.9´ N 40° 03.3´ E	**Fl.G.** period 5s fl. 1s, ec. 4s	33 **10**	5	White metal pylon; 26.	**AIS** (MMSI No 992711343).
19385.5 *N 5782.95*	-S. breakwater, head.	40° 57.0´ N 40° 03.1´ E	**Fl.R.** period 5s fl. 1s, ec. 4s	33 **10**	5	White metal pylon; 30.	**AIS** (MMSI No 992711344).
19388 *N 5784*	**Trabzon.**	41° 00.5´ N 39° 43.9´ E	**Fl.(2)W.** period 15s fl. 1s, ec. 2s fl. 1s, ec. 11s	102 **31**	**17**	Metal pylon, white concrete tower; 20.	**AIS** (MMSI No 992711345).
19392 *N 5785*	-N. breakwater, head.	41° 00.5´ N 39° 44.8´ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	52 **16**	10	White concrete tower; 26.	**AIS** (MMSI No 992711346).
19400 *N 5785.6*	--E.	41° 00.2´ N 39° 44.9´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	30 **9**	10	White concrete tower; 23.	**AIS** (MMSI No 992711347).
19404 *N 5787*	Incir Limani, pier, head.	41° 06.4´ N 39° 25.4´ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	36 **11**	4	Metal tower.	
19408 *N 5786*	**Isikli Burnu.**	41° 06.5´ N 39° 25.1´ E	**Fl.W.** period 10s fl. 0.4s, ec. 9.6s	82 **25**	**18**	White concrete tower, dwelling; 26.	**AIS** (MMSI No 992711348).
19412 *N 5787.5*	Eynesil.	41° 04.5´ N 39° 10.0´ E	**Fl.W.** period 10s fl. 1s, ec. 9s	98 **30**	12	White metal pylon; 23.	**AIS** (MMSI No 992711303).
19416 *E 5787.8*	Gorele, mole, head.	41° 02.1´ N 39° 00.6´ E	**Fl.G.** period 5s			White metal pylon; 19.	Fishing light.
19420 *N 5788*	**Tirebolu.**	41° 00.4´ N 38° 49.4´ E	**Fl.R.** period 4s fl. 1s, ec. 3s	102 **31**	**18**	White framework pylon, concrete base.	**AIS** (MMSI No 992711309).
19424 *N 5789*	Cam Burnu.	40° 58.4´ N 38° 38.8´ E	**Fl.(2)W.** period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	56 **17**	12	Metal framework tower; 23.	**AIS** (MMSI No 992711304).
19428 *N 5790*	**Giresun,** NW. side of promontory.	40° 55.4´ N 38° 23.5´ E	**Fl.W.** period 15s fl. 1.5s, ec. 13.5s	364 **111**	**18**	White metal tower; 39.	**AIS** (MMSI No 992711305).
19432 *N 5791*	-N. breakwater.	40° 55.2´ N 38° 22.7´ E	**Fl.R.** period 5s fl. 1s, ec. 4s	43 **13**	10	White concrete tower; 33.	**AIS** (MMSI No 992711307).
19436 *N 5792*	-S. breakwater.	40° 55.0´ N 38° 22.7´ E	**Fl.G.** period 5s fl. 1s, ec. 4s	30 **9**	10	White concrete tower; 20.	**AIS** (MMSI No 992711306).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			TURKEY-BLACK SEA				
19440 *N 5789.4*	Piraziz Burnu.	40° 57.1´ N 38° 09.2´ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	98 **30**	8	White metal tower; 33.	**AIS** (MMSI No 992711308).
19443 *N 5792.9*	Ordu, Yeni Iskele, head.	40° 59.8´ N 37° 52.8´ E	**Iso.Y.** period 2s	26 **8**	5	Metal framework structure; 20.	
19444 *N 5793*	Ordu (Piramet).	41° 00.9´ N 37° 52.0´ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	56 **17**	10	White metal framework tower; 33.	**AIS** (MMSI No 992711315).
19445 *N 5793.21*	-Yalikoy (Efirli), main breakwater.	41° 01.2´ N 37° 51.4´ E	**F.G.**	39 **12**	5	Concrete tower; 26.	
19445.1 *N 5793.3*	--Secondary breakwater.	41° 01.1´ N 37° 51.3´ E	**F.R.**	36 **11**	5	Concrete tower; 26.	
19446 *N 5793.5*	Persembe.	41° 04.8´ N 37° 46.8´ E	**F.G.**	39 **12**	3	Concrete tower; 20.	
19447 *N 5793.7*	--S. breakwater, head.	41° 04.9´ N 37° 46.6´ E	**F.R.**	36 **11**	3	Concrete tower; 26.	
19448 *N 5794*	**Cam Burnu.**	41° 06.9´ N 37° 47.2´ E	**Fl.W.** period 10s fl. 1s, ec. 9s	127 **39**	**18**	White concrete tower; 26.	**AIS** (MMSI No 992711316).
19450 *N 5794.5*	Mersin, breakwater.	41° 06.9´ N 37° 45.9´ E	**F.R.**	36 **11**	3		F.G. 3M shown on opposing breakwater.
19452 *N 5795*	Yasun Burnu.	41° 08.1´ N 37° 41.1´ E	**Fl.(3)W.** period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 10.5s	36 **11**	8	White metal tower; 23.	**AIS** (MMSI No 992711317).
19453 *N 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.	**AIS** (MMSI No 992711313).
19453.1 *N 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.	**AIS** (MMSI No 992711314).
19454 *N 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 *N 5795.45*	-S. breakwater, head.	41° 02.2´ N 37° 35.2´ E	**F.G.**	36 **11**	3	Metal framework tower; 26.	
19456 *N 5796*	Fatsa Limani, on Fatsa Banki.	41° 03.6´ N 37° 30.7´ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	20 **6**	10	White metal framework tower; 16.	**AIS** (MMSI No 992711310).
19457 *N 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.	**AIS** (MMSI No 992711311).
19457.5 *N 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.	**AIS** (MMSI No 992711312).
19458 *N 5797*	Unye, breakwater, head.	41° 07.0´ N 37° 21.0´ E	**Fl.G.** period 5s fl. 1s, ec. 4s	30 **9**	6	White concrete tower; 23.	**AIS** (MMSI No 992711319).
19458.5 *N 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; 23.	**AIS** (MMSI No 992711320).
19460 *N 5798*	Unye, on Tashane Burun.	41° 08.5´ N 37° 17.6´ E	**Fl.(2)W.** period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	62 **19**	10	Metal tower, white concrete base; 26.	**AIS** (MMSI No 992711318).
19464 *N 5799*	Calti Burnu.	41° 15.7´ N 37° 01.4´ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	56 **17**	10	White metal framework tower, dwelling; 49.	**AIS** (MMSI No 992711334).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			TURKEY-BLACK SEA				
19468 *N 5800*	Civa Burnu.	41° 21.8´ 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.	**AIS** (MMSI No 992711330).
19470 *N 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 *N 5801*	Azot Sanayi.	41° 14.8´ N 36° 27.5´ E	**Fl.W.** period 5s fl. 1s, ec. 4s	26 **8**	3	White round tower, black band; 20.	
19473 *N 5801.1*	-W. jetty, N. head.	41° 15.1´ N 36° 26.7´ E	**Fl.(4)Y.** period 10s	33 **10**	5		
19473.1 *N 5801.2*	--S. head.	41° 14.8´ N 36° 26.8´ E	**Fl.(4)G.** period 10s	33 **10**	5		
19473.2 *N 5801.3*	-E. jetty, head.	41° 14.8´ N 36° 26.7´ E	**Fl.(4)R.** period 10s	33 **10**	5		
	SAMSUN:						
19476 *N 5803*	-E. mole, head.	41° 18.5´ N 36° 21.0´ E	**Fl.R.** period 5s fl. 1s, ec. 4s	46 **14**	10	Concrete tower; 39.	**AIS** (MMSI No 992711332).
19480 *N 5802*	-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.	**AIS** (MMSI No 992711333). **Horn:** Mo.(A) 30s (bl. 0.75s, si. 1s, bl. 2.5s, si. 25.75s).
19484 *N 5802.2*	--Mole.	41° 18.6´ N 36° 21.1´ E	**F.G.**	23 **7**	2	White concrete tower; 10.	Visible 291°-111°.
19485 *N 5802.3*	-Fishermans Shelter.	41° 18.6´ N 36° 20.6´ E	**F.G.**	30 **9**	3	Concrete tower; 23.	
19488 *N 5803.4*	-Jetty, head.	41° 18.2´ N 36° 20.5´ E	**F.R.**	20 **6**	2	White metal tower; 10.	
19492 *N 5805*	Incir Burnu.	41° 37.4´ 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.	**AIS** (MMSI No 992711331).
19496 *N 5806*	**Bafra Burnu.**	41° 43.8´ N 35° 56.8´ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	82 **25**	**20**	White round metal framework tower, building; 82.	**AIS** (MMSI No 992711329).
19500 *N 5806.5*	Yakakent, E. mole.	41° 38.6´ N 35° 30.2´ E	**Fl.G.**	36 **11**			
19504 *N 5806.6*	-W. mole.	41° 38.4´ N 35° 30.3´ E	**Fl.R.**	26 **8**			
19508 *N 5807*	Gerze. Kosk Burnu.	41° 48.0´ N 35° 12.4´ E	**Fl.(2)W.** period 3s fl. 0.3s, ec. 1s fl. 0.3s, ec. 1.4s	49 **15**	6	White concrete tower; 20.	**AIS** (MMSI No 992711338).
19509 *N 5807.1*	-E. breakwater, head.	41° 47.9´ N 35° 12.2´ E	**F.G.**	36 **11**	3		
19510 *N 5807.2*	-W. breakwater, head.	41° 47.9´ N 35° 12.1´ E	**F.R.**	33 **10**	3		
19512 *N 5808*	Sinop, on Boztepe Burnu.	42° 01.1´ N 35° 12.5´ E	**Fl.(2)W.** period 15s fl. 1s, ec. 3s fl. 1s, ec. 10s	351 **107**	10	White stone tower, dwelling; 13.	**AIS** (MMSI No 992711340). **Siren:** 3 bl. ev. 32s (bl. 1s, si. 1s, bl. 1s, si. 1s, bl. 2.5s, si. 25.5s).
19516 *N 5808.5*	-On mole.	42° 01.3´ N 35° 08.7´ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	23 **7**	2	Concrete tower; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			TURKEY-BLACK SEA				
19520 *N 5808.4*	-Fishing harbor.	42° 01.3´ N 35° 09.1´ E	**Iso.Y.** period 2s	26 **8**	5	Round metal mast.	F.R. on tower 480 meters N.
19528 *N 5809*	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.	**AIS** (MMSI No 992711339).
19532 *N 5810*	**Ince Burun.**	42° 05.6´ N 34° 57.0´ 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 stone tower, dwelling; 39.	**AIS** (MMSI No 992711341).
19534 *N 5810.5*	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.	**AIS** (MMSI No 992711336).
19534.5 *N 5810.6*	-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.	**AIS** (MMSI No 992711337).
19536 *N 5811*	Ayancik, on Usta Burun.	41° 58.3´ N 34° 29.6´ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	89 **27**	8	White framework tower, concrete base; 20.	**AIS** (MMSI No 992711335).
19544 *N 5812*	Inebolu, on point.	41° 58.6´ N 33° 46.0´ E	**Fl.W.** period 10s fl. 1s, ec. 9s	125 **38**	12	White concrete tower, dwelling; 30.	**AIS** (MMSI No 992711008).
19548 *N 5813*	-N. breakwater, head.	41° 58.9´ N 33° 46.7´ E	**Fl.G.** period 3s fl. 1s, ec. 2s	23 **7**	8	White concrete tower; 23.	**AIS** (MMSI No 992711009).
19552 *N 5814*	-S. breakwater, head.	41° 58.8´ N 33° 46.3´ E	**Fl.R.** period 3s fl. 1s, ec. 2s	23 **7**	8	White metal framework tower; 23.	**AIS** (MMSI No 992711010).
19556 *N 5816*	**Kerempe Burnu.**	42° 01.1´ N 33° 20.7´ E	**Fl.W.** period 20s	269 **82**	**20**	White round tower, dwelling; 26.	**AIS** (MMSI No 992711011). **Siren:** 3 bl. ev. 32s (bl. 1s, si. 1s, bl. 1s, si. 1s, bl. 2.5s, si. 25.5s).
19560 *N 5816.5*	Kopekkayasi Burnu.	41° 54.3´ N 32° 59.4´ E	**Fl.(2)W.** period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	666 **203**	10	White concrete tower; 23.	**AIS** (MMSI No 992711012).
19564 *N 5816.55*	-N. breakwater, head.	41° 54.1´ N 32° 58.4´ E	**F.R.**	30 **9**	3	White concrete tower; 30.	**AIS** (MMSI No 992711013).
19568 *N 5816.6*	-Sheltered breakwater, head.	41° 54.1´ N 32° 59.0´ E	**Fl.G.** period 5s fl. 1s, ec. 4s	30 **9**	8	White concrete tower; 30.	**AIS** (MMSI No 992711014).
19572 *N 5816.7*	Kurucasile, on Kapt Suyu.	41° 50.7´ N 32° 43.1´ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	135 **41**	8	White concrete tower; 26.	**AIS** (MMSI No 992711015).
19576 *N 5817*	**Amasra.**	41° 45.2´ N 32° 23.0´ E	**Fl.W.** period 10s fl. 1s, ec. 9s	252 **77**	**20**	White stone tower, dwelling; 13.	**AIS** (MMSI No 992711016).
19580 *N 5818*	-S. breakwater, head.	41° 44.7´ N 32° 23.7´ E	**Fl.R.** period 6s fl. 1s, ec. 5s	39 **12**	10	White metal tower; 20.	**AIS** (MMSI No 992711018).
19584 *N 5817.5*	-N. mole, head.	41° 44.9´ N 32° 23.9´ E	**Fl.G.** period 6s fl. 1s, ec. 5s	46 **14**	10	White metal tower; 33.	**AIS** (MMSI No 992711017).
19585 *N 5818.3*	Tarlaagzi, N. breakwater, head.	41° 43.5´ N 32° 20.3´ E	**F.G.**		3		
19585.1 *N 5818.31*	-S. breakwater, head.	41° 43.4´ N 32° 20.3´ E	**F.R.**		3		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			TURKEY-BLACK SEA				
	BARTIN LIMANI:						
19588 *N 5818.4*	-Demirli Burnu.	41° 40.8′ N 32° 13.8′ E	**Fl.(2)W.** period 6s fl. 0.8s, ec. 0.8s fl. 0.8s, ec. 3.6s	230 **70**	10	White concrete tower; 33.	**AIS** (MMSI No 992711023).
19591 *N 5818.51*	-Kapakli Burnu, N. breakwater.	41° 41.3′ N 32° 14.0′ E	**Fl.W.** period 3s fl. 1s, ec. 2s	33 **10**	10	White metal pylon; 26.	Visible 068°-073°. **AIS** (MMSI No 992711302).
19592 *N 5818.5*	-N. breakwater, head.	41° 41.2′ 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, concrete base; 23.	**AIS** (MMSI No 992711020).
19596 *N 5818.6*	-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; 26.	**AIS** (MMSI No 992711019).
19598 *N 5818.62*	--W. head.	41° 41.1′ N 32° 13.5′ E	**Q.G.**	36 **11**	8	White concrete tower; 26.	**AIS** (MMSI No 992711022).
19604 *N 5819*	Hisaronu, pier, head.	41° 33.7′ N 32° 00.6′ E	**F.R.**	26 **8**	4	White column; 20.	
19606 *N 5819.4*	Mancar Agzi.	41° 31.4′ N 31° 53.7′ E	**Fl.R.** period 3s		3		Fl.G. marks pier close SE.
19607	Eren Limani.	41° 31.0′ N 31° 54.2′ E	**Fl.R.** period 5s	33 **10**	5		
19607.5	-S. breakwater, head.	41° 31.3′ N 31° 54.2′ E	**Fl.G.** period 5s	30 **9**	5		
	ZONGULDAK LIMANI:						
19608 *N 5820*	**-Zonguldak Burun.**	41° 27.8′ N 31° 47.4′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	173 **53**	**20**	White concrete tower, dwelling; 30.	**AIS** (MMSI No 992711025).
19612 *N 5823*	-Range, front.	41° 27.6′ N 31° 47.3′ E	**F.Bu.**		1	Platform; 46.	
19616 *N 5823.1*	--Rear, 25 meters 080°15′ from front.	41° 27.6′ N 31° 47.3′ E	**F.Bu.**		1	Pole; 125.	
19620 *N 5823.6*	-W. breakwater, head.	41° 27.4′ N 31° 47.0′ E	**Fl.G.** period 5s fl. 1s, ec. 4s	52 **16**	10	Metal framework tower, white concrete base; 33.	**AIS** (MMSI No 992711027).
19624 *N 5823.5*	-N. breakwater, head.	41° 27.4′ N 31° 46.7′ E	**Fl.R.** period 5s fl. 1s, ec. 4s	62 **19**	10	Metal framework tower, white concrete base; 39.	**AIS** (MMSI No 992711026).
19625 *N 5825.5*	-Kozlu, outer breakwater, head.	41° 26.4′ N 31° 44.7′ E	**Fl.R.**	36 **11**	5		
19625.1 *N 5825.6*	--Inner breakwater, head.	41° 26.4′ N 31° 44.8′ E	**Fl.G.**	33 **10**	5		
19632 *N 5826*	**Oluce Burnu.**	41° 18.6′ N 31° 23.9′ E	**Fl.(2)W.** period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	256 **78**	**15**	White stone tower, dwelling; 30.	**AIS** (MMSI No 992711028).
	EREGLI LIMANI:						
19640 *N 5827*	-Old Port, W. breakwater, head.	41° 16.7′ N 31° 24.0′ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	30 **9**	8	White concrete tower; 16.	**AIS** (MMSI No 992711029). **Siren:** 1 bl. ev. 10s (bl. 2s, si. 8s).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			TURKEY-BLACK SEA				
19644 *N 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	Cylindrical metal tower; 13.	**AIS** (MMSI No 992711030).
19648 *N 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	Cylindrical metal tower; 13.	**AIS** (MMSI No 992711031).
19652 *N 5828*	-New port (Uzun Kum), outer breakwater, head.	41° 16.1´ N 31° 24.7´ E	**Fl.(2)G.** period 5s fl. 0.3s, ec. 1s fl. 0.3s, ec. 3.4s	36 **11**	7	Concrete tower, white hexagonal building; 20.	**Radar reflector.**
19656 *N 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, white hexagonal building; 10.	
19658 *N 5829.3*	Akckoca. Kale.	41° 05.3´ N 31° 05.9´ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	49 **15**	10	Metal tower, white concrete base; 30.	
19658.5 *N 5829*	-Breakwater, head.	41° 05.7´ N 31° 07.9´ E	**Fl.R.** period 5s fl. 1s, ec. 4s	43 **13**	10	White concrete tower; 30.	**AIS** (MMSI No 992711032).
19660 *N 5829.5*	Sakarya, W. side of river entrance.	41° 07.6´ N 30° 39.2´ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	30 **9**	6	Metal framework tower, white concrete base; 26.	**AIS** (MMSI No 992711035).
19664 *N 5830*	Kefken Adasi, near W. extremity.	41° 12.9´ N 30° 15.1´ E	**Fl.W.** period 10s fl. 1.5s, ec. 8.5s	79 **24**	14	Observation tower; 33.	**AIS** (MMSI No 992711068). **Horn (2):** 2 bl. ev. 20s (bl. 3s, si. 3s, bl. 3s, si. 11s).
	RACON		**K(– • –)**				
19666 *N 5830.7*	Asagi Kovanagzi, breakwater, head.	41° 10.8´ N 30° 13.7´ E	**Fl.G.** period 5s fl. 1s, ec. 4s	20 **6**	5	White concrete tower; 16.	**AIS** (MMSI No 992711069).
19668 *N 5830.4*	-W. mole, head.	41° 12.8´ N 30° 15.4´ E	**Fl.R.** period 5s fl. 1s, ec. 4s	26 **8**	5	White metal framework tower; 16.	Visible 177°-125°. **AIS** (MMSI No 992711066).
19672 *N 5830.2*	-E. mole, head.	41° 12.8´ N 30° 15.7´ E	**Fl.G.** period 5s fl. 1s, ec. 4s	26 **8**	5	White concrete tower; 16.	**AIS** (MMSI No 992711067).
19677 *N 5831.4*	-Shelter, N. breakwater, head.	41° 08.4´ N 29° 51.3´ E	**Fl.R.** period 5s fl. 1s, ec. 4s	23 **7**	3	White concrete tower; 16.	**AIS** (MMSI No 992711041).
19678 *N 5831.42*	--S. breakwater, head.	41° 08.0´ N 29° 51.0´ E	**Fl.G.** period 5s fl. 1s, ec. 4s	23 **7**	3	White concrete tower; 16.	**AIS** (MMSI No 992711042).
19680 *N 5832*	**Sile Burnu.**	41° 10.5´ N 29° 37.0´ E	**Fl.W.** period 15s fl. 1.5s, ec. 13.5s	197 **60**	**21**	White stone tower, black bands, building; 62.	**AIS** (MMSI No 992711038).
19684 *N 5832.4*	Sile Limani, N. mole, head.	41° 10.7´ N 29° 35.8´ E	**Fl.R.** period 5s fl. 1s, ec. 4s	43 **13**	8	White concrete tower; 20.	
19688 *N 5833*	Anadolu Karaburun.	41° 12.9´ N 29° 23.3´ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	141 **43**	10	White metal tripod, observation tower; 26.	**AIS** (MMSI No 992711037).
19692 *N 5834*	Esek Adasi.	41° 14.0´ N 29° 13.6´ E	**Fl.W.** period 5s fl. 1s, ec. 4s	98 **30**	10	White metal framework tower; 26.	**AIS** (MMSI No 992711189).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			TURKEY-GREECE				
19696 *N 4588*	**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.	**AIS** (MMSI No 992711128).
	RACON		**K(– • –)**				
19697 *N 4589*	-Outer breakwater, head.	39° 28.4´ N 26° 04.0´ E	**Fl.R.** period 4s	39 **12**	5		
19697.5 *N 4589.5*	-Inner breakwater, head.	39° 28.6´ N 26° 04.0´ E	**Fl.G.** period 4s	39 **12**	5		
19700 *N 4590*	**Sivrice Burnu** (T.).	39° 27.9´ N 26° 14.5´ E	**Fl.(2)W.** period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	52 **16**	**15**	White concrete tower, dwelling; 39.	**AIS** (MMSI No 992711129).
19702 *N 4590.2*	Kucukkuyu, W. breakwater.	39° 32.7´ N 26° 36.3´ E	**F.R.**	43 **13**	3	Concrete tower; 33.	
19703 *N 4590.4*	Altinoluk, breakwater.	39° 33.9´ N 26° 44.6´ E	**F.R.**	33 **10**	3	Concrete tower; 23.	
19704 *N 4591*	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 *N 4591.2*	-Akeay.	39° 34.9´ N 26° 55.3´ 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	26 **8**	5	Yellow round tower; 20.	
19706 *N 4591.5*	-Burhaniye Oren, W. breakwater, head.	39° 29.2´ N 26° 55.6´ E	**Fl.G.** period 3s				
19708 *N 4592*	-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 tower; 33.	Visible 080°-292°. **AIS** (MMSI No 992711130).
	NISOS LESVOS (GR.):						
19712 *N 4603*	-Plomarion, E. breakwater, head.	38° 58.4´ N 26° 22.2´ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	26 **8**	3	Metal framework structure, gallery, metal column, green band; 20.	
19716 *N 4602*	--W. breakwater, head.	38° 58.3´ N 26° 22.2´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	23 **7**	3	Metal framework structure, gallery, metal column, red band; 18.	
19720 *N 4599*	-Nisos Garbia, N. end of island.	39° 04.6´ N 26° 04.8´ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	76 **23**	6	White round hut, column; 20.	
19724 *N 4600*	-Kolpos Kallonis, Skala Polikhniton.	39° 06.1´ N 26° 10.1´ E	**F.R.**	23 **7**	3	White metal column, red band; 20.	
19725 *N 4600.4*	--S. mole, head.	39° 06.1´ N 26° 10.1´ E	**F.G.**	23 **7**	3	White metal column, green band; 20.	
19732 *N 4598*	**-Nisis Sigri.**	39° 12.7´ N 25° 49.8´ 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 *N 4598.2*	-Akra Saratsina.	39° 11.3´ N 25° 50.1´ E	**Fl.W.R.** period 3s fl. 0.3s, ec. 2.7s	75 **23**	W. 5 R. 3	Metal framework structure; 16.	W. 000°-122°, R.-160°, W.-219°, R.-270°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			TURKEY-GREECE				
19740 *N 4595*	-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 lantern; 16.	W. 068°-219°, G.-239°, W.-263°.
19744 *N 4596.1*	-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 structure, gallery, red band.	
19748 *N 4597*	--Nisis Gavadhes.	39° 18.1´ N 26° 01.5´ E	**Fl.W.** period 2s fl. 0.2s, ec. 1.8s	49 **15**	4	White metal framework structure; 26.	
19752 *N 4594*	-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	White lantern; 16.	W. 087°-104°, R.-119°, W.-299°.
19754 *N 4609*	-Nisis Panagia.	39° 18.8´ N 26° 26.9´ E	**Fl.W.** period 10s fl. 0.5s, ec. 9.5s	72 **22**	7	White metal column; 7.	
19756 *N 4607*	-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	White metal framework structure, dwelling; 20.	Visible 122°-027°.
19760 *N 4607.6*	--Breakwater, head.	39° 05.9´ N 26° 33.7´ E	**Fl.G.** period 3s fl. 1s, ec. 2s	46 **14**	7	White hexagonal hut, gallery, column, green band; 26.	
19761 *N 4607.8*	--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 structure, gallery, metal column, red band; 25.	
19762 *N 4607.9*	---SW. head.	39° 05.8´ N 26° 33.6´ E	**Q.G.**	36 **11**	4	Metal framework structure, gallery, metal column, green band; 26.	
19764 *N 4608.4*	--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, gallery, column, green band; 23.	
19768 *N 4608*	--Notio Limin, side entrance.	39° 06.3´ N 26° 33.6´ E	**Fl.R.** period 1.5s fl. 0.3s, ec. 1.2s	29 **9**	3	White hexagonal hut, column, red band; 20.	
19770 *N 4607.7*	--S. mole, head.	39° 05.7´ N 26° 33.5´ E	**Q.R.**	16 **5**	4	Metal framework structure, gallery, metal column, red band.	
19772 *N 4605*	-Akra Malea (Aghrilios).	39° 00.6´ N 26° 36.4´ E	**Fl.(2)W.** period 12s fl. 1s, ec. 2s fl. 1s, ec. 8s	170 **52**	9	White pyramidal structure, gallery; 13.	Visible 210°-102°.
19776 *N 4606*	-Perama, pier, head.	39° 02.6´ N 26° 30.4´ E	**2 F.R.** (vert.)	16 **5**	2	White metal column; 23.	1 meter apart.
	MITILINI STRAIT (T.):						
19780 *N 4610*	-Gunes Adasi, N. end of strait.	39° 19.6´ N 26° 32.5´ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	216 **66**	8	White concrete tower; 16.	**AIS** (MMSI No 992711146).
19784 *N 4611*	-Yumurta Adasi.	39° 19.2´ N 26° 31.6´ E	**Iso.R.** period 2s	62 **19**	5	White metal framework tower; 13.	**AIS** (MMSI No 992711145).
19788 *N 4612*	-Ciplakada. Fener Burna.	39° 17.0´ N 26° 36.1´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	59 **18**	8	White metal tower; 13.	**AIS** (MMSI No 992711144).
19792 *N 4613*	-Ayvalik, on Korkut Burnu.	39° 18.8´ N 26° 37.8´ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	59 **18**	7	White metal framework tower; 30.	**AIS** (MMSI No 992711143).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			TURKEY-GREECE				
19796 *N 4614*	-Ayvalik Limani, Dalyan Bogazi, Alibey Adazi, off S. point.	39° 19.3´ N 26° 38.1´ E	**V.Q.(6)+L.Fl.W.** period 15s	16 **5**	7	S. CARDINAL YB, beacon, topmark; 13.	Maintained by local authorities. Channel into Aybalik marked by 3 Fl.R. lights on N. side and 3 Fl.G. on S. side. **AIS** (MMSI No 992711183).
19798 *N 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	White metal post; 10.	**AIS** (MMSI No 992711142).
19799 *N 4615.22*	-Alibey Adasi.	39° 19.8´ N 26° 39.4´ E	**F.R.**	33 **10**	3	Concrete tower; 23.	
19799.3 *N 4615.24*	-Yat Limani.	39° 19.0´ N 26° 41.3´ E	**Fl.G.** period 5s fl. 0.3s, ec. 4.7s	33 **10**	5	Concrete tower; 23.	
19799.5 *N 4615.26*	--Tower.	39° 18.8´ N 26° 41.3´ E	**Fl.R.** period 5s fl. 0.3s, ec. 4.7s	33 **10**	5	Concrete tower; 23.	
19799.6 *N 4615.35*	-Kurbaga Burnu, breakwater, head.	39° 13.6´ N 26° 43.2´ E	**Fl.W.** period 5s fl. 1s, ec. 4s	10 **3**	3	Metal pylon; 20.	
19800 *N 4615.4*	-Madra Cayi.	39° 10.3´ 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.	**AIS** (MMSI No 992711185).
19804 *N 4615.5*	Dikili, breakwater, SW arm.	39° 04.3´ N 26° 53.1´ E	**F.R.**	30 **9**	4	White metal mast; 16.	F.R. marks NW arm.
19804.5 *N 4615.51*	-Jetty, head.	39° 04.3´ N 26° 53.1´ E	**Fl.Y.** period 4s fl. 1s, ec. 3s	33 **10**	3	SPECIAL Y, post, "X" topmark; 26.	
19808 *N 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 tower; 23.	W. 240°-102°, R.-120°, W.-140°, R.-156°, W.-175°. **AIS** (MMSI No 992711134).
19810 *N 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 *N 4616.2*	-Pirasa Adasi, summit.	38° 51.9´ N 26° 53.6´ E	**Fl.W.** period 5s fl. 1s, ec. 4s	144 **44**	12	White metal framework tower; 20.	**AIS** (MMSI No 992711169).
19816 *N 4616*	**-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.	**AIS** (MMSI No 992711168).
19822 *N 4616.3*	-Ilica Burnu.	38° 49.5´ N 26° 53.7´ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	164 **50**	9	White concrete tower; 26.	**AIS** (MMSI No 992711170).
19822.01 *N 4616.32*	-Aegean Gas Pier, SW head.	38° 49.4´ N 26° 54.9´ E	**Fl.(3)Y.** period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4.5s	30 **9**	5	Yellow metal post; 16.	
19822.02 *N 4616.33*	--NE. head.	38° 49.2´ N 26° 54.8´ E	**Fl.(3)Y.** period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4.5s	30 **9**	5	Yellow metal post; 16.	
19822.1 *N 4616.35*	--E. jetty, head.	38° 49.7´ N 26° 55.1´ E	**Fl.Y.** period 4s		3		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			TURKEY-GREECE				
19823 *N 4616.7*	--Fuel jetty, NE. end.	38° 49.6´ N 26° 56.9´ E	**Fl.(3)Y.** period 6s		5		
19823.1 *N 4616.72*	---SW. end.	38° 49.3´ N 26° 56.8´ E	**Fl.(4)Y.** period 10s		5		
19824 *N 4616.4*	-Aliaga Limani, W. entrance point, Tasli Burnu.	38° 50.1´ N 26° 56.7´ E	**Q.G.**	36 **11**	10	White metal framework tower; 20.	**AIS** (MMSI No 992711171).
19824.1 *N 4616.6*	--E. entrance point, Tuzla Burnu.	38° 49.9´ N 26° 58.0´ E	**Q.R.**	26 **8**	8	White round metal tower; 20.	**AIS** (MMSI No 992711172).
19825 *N 4616.9*	-Nemrut Bay, Habas, jetty, head.	38° 45.9´ N 26° 54.8´ E	**Fl.R.**				
19826 *N 4616.95*	--Baticim, jetty, head.	38° 45.9´ N 26° 55.0´ E	**F.R.**				
19827 *N 4617*	--W. pier, head.	38° 45.4´ N 26° 55.7´ E	**F.R.**				
19830 *N 4617.6*	-Breakwater, W. head.	38° 46.5´ N 26° 55.8´ E	**F.R.**	23 **7**	2		
19832 *N 4617.5*	-Petkim Refinery, breakwater, head.	38° 46.7´ N 26° 55.4´ E	**F.R.**	23 **7**	2	Metal framework tower; 20.	
	IZMIR KORFEZI (T.):						
19836 *N 4621*	-Eski Saip, on Buyukada.	38° 39.7´ N 26° 31.1´ E	**Fl.(2)W.** period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	82 **25**	10	Metal framework pylon; 33.	**AIS** (MMSI No 992711179).
19837 *N 4621.2*	-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 tower; 20.	**AIS** (MMSI No 992711177).
19837.1 *N 4621.3*	--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.	**AIS** (MMSI No 992711178).
19837.2 *N 4621.4*	-Fisherman's Harbor, W. breakwater, head.	38° 30.8´ N 26° 38.0´ E	**F.R.**	33 **10**	3	White concrete tower; 23.	
19837.3 *N 4621.45*	--E. breakwater, head.	38° 30.7´ N 26° 38.1´ E	**F.G.**	33 **10**	3	White concrete tower; 26.	
19838 *N 4617.9*	-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.	**AIS** (MMSI No 992711176).
19840 *N 4618*	-Foca, Oglak Adasi.	38° 40.5´ N 26° 42.8´ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	82 **25**	12	White concrete tower; 20.	**AIS** (MMSI No 992711175).
19844 *N 4620*	--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.	**AIS** (MMSI No 992711174).
19848 *N 4621.6*	-Leventler Limani.	38° 38.1´ N 26° 45.2´ E	**F.R.**	26 **8**	2	Red tower, concrete pedestal.	
19852 *N 4621.62*	--Tower.	38° 38.0´ N 26° 45.6´ E	**F.G.**	26 **8**	2		
19856 *N 4621.5*	-Azaplar Kayalari.	38° 37.1´ N 26° 44.7´ E	**Fl.R.** period 3s fl. 1s, ec. 2s	33 **10**	12	White metal tower; 23.	**AIS** (MMSI No 992711173).
19860 *N 4623*	-Cigli Airfield.	38° 31.0´ N 27° 00.4´ E	**Al.Fl.W.G.** period 10s	161 **49**	10	Control tower; 85.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			TURKEY-GREECE				
19864 *N 4622*	-Uzun Ada, NE. point.	38° 32.4´ N 26° 42.9´ 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.	Q.R. shown from radio masts, 2.8 km. 150° and 7.4 km. 168° respectively. **AIS** (MMSI No 992711191).
19866 *N 4622.1*	Nergis Island.	38° 28.5´ 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.	**AIS** (MMSI No 992711160).
19867 *N 4622.8*	-Camalti, pier, head.	38° 25.7´ N 26° 56.6´ E	**F.R.**	20 **6**		Metal mast; 13.	
19868 *N 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.	**AIS** (MMSI No 992711158).
19870 *N 4622.4*	-Urla.	38° 21.9´ N 26° 46.3´ E	**F.G.**	23 **7**	3	White metal framework tower; 16.	**AIS** (MMSI No 992711157).
19871 *N 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 framework tower; 33.	**AIS** (MMSI No 992711156).
19873 *N 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 iron tower; 23.	
19873.1 *N 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 iron tower; 23.	
19874 *N 4625.4*	--E. pier.	38° 24.4´ N 27° 04.2´ E	**Fl.(2)G.** period 5s	33 **10**	5		
19874.1 *N 4625.6*	--SE. pier.	38° 24.3´ N 27° 04.3´ E	**Fl.(2)R.** period 5s	43 **13**	5		
19875 *N 4627.3*	-Konak, pier, head.	38° 25.1´ N 27° 07.5´ E	**Fl.(2)Y.** period 5s	39 **12**	5		
19876 *N 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.	**AIS** (MMSI No 992711148).
19880 *N 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.	**AIS** (MMSI No 992711147).
19884 *N 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.	**AIS** (MMSI No 992711149).
19884.1 *N 4628.55*	-Daragac Burnu, S. pier, head.	38° 26.3´ N 27° 08.5´ E	**Fl.(2)Y.** period 5s	23 **7**	5		
19885 *N 4628.6*	-Alsancak Limani.	38° 26.8´ N 27° 08.9´ E	**Fl.(2+1)G.** period 12s	30 **9**	5	White round tower.	
19885.1 *N 4628.65*	-Umrubey, W. head.	38° 26.8´ N 27° 09.3´ E	**Fl.(2+1)R.** period 12s	30 **9**	5	White round tower.	
19885.2 *N 4628.68*	--E. head.	38° 26.7´ N 27° 09.6´ E	**Fl.G.** period 4s fl. 1s, ec. 3s	30 **9**	5	White round tower.	
19892 *N 4628.7*	-Turan, pier, head.	38° 27.8´ N 27° 09.0´ E	**F.R.**		2		
19893 *N 4628.58*	-Karsiyaka, Donanmaci, pier, head.	38° 27.3´ N 27° 07.2´ E	**Fl.(2)Y.** period 5s	33 **10**	5		
19894 *N 4628.575*	--Aksoy, NE. pier, head.	38° 27.1´ N 27° 05.9´ E	**Fl.(2)G.** 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				
19894.1 *N 4628.57*	---E. pier, head.	38° 27.1´ N 27° 05.9´ E	**Fl.(2)R.** period 5s	69 **21**	5		
19896 *N 4630*	Kara Burnu.	38° 39.6´ N 26° 21.8´ 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	318 **97**	12	White concrete tower, dwelling; 43.	Visible 045°-225°. **AIS** (MMSI No 992711180).
	RACON		**N(– •)**		**20**		(3 & 10cm).
	NISOS PSARA (GR.):						
19900 *N 4632*	**-Akra Ayios Yeoryiou.**	38° 32.2´ N 25° 36.6´ E	**Fl.W.** period 10s fl. 0.3s, ec. 9.7s	255 **78**	**18**	Round tower, dwelling; 49.	
19904 *N 4634*	-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, gallery, column, red band; 23.	
19905 *N 4634.5*	-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 structure, gallery, metal column, red band.	
	NISOS KHIOS (GR.):						
19908 *N 4638*	-Nisis Gevtis.	38° 36.3´ N 26° 01.8´ 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; 13.	
19911 *N 4650.2*	-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 framework structure, gallery, metal column, red band; 20.	
19911.5 *N 4650.1*	--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 framework structure, gallery, metal column, red band; 20.	
19912 *N 4650*	--E. mole, head.	38° 28.1´ N 25° 55.3´ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	26 **8**	3	Metal framework structure, gallery, metal column, green band; 20.	
19916 *N 4649*	-Mesta, on Akra Oura.	38° 18.0´ N 25° 55.4´ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	43 **13**	7	White metal framework structure; 18.	
19918 *N 4649.4*	--Inner harbor, starboard hand.	38° 17.8´ N 25° 55.6´ E	**Q.G.**	33 **10**	2	White round hut, green band; 33.	
19918.1 *N 4649.6*	---Port hand.	38° 17.7´ N 25° 55.7´ E	**Q.R.**	33 **10**	3	White hexagonal hut, gallery, column, red band; 26.	
19924 *N 4648*	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 lantern; 13.	Visible 217°-132°.
19928 *N 4647.86*	-Vokarias. S. mole, head.	38° 33.7´ N 26° 06.9´ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	23 **7**	3	Metal framework structure, gallery, metal column, green band.	
19930 *N 4647.8*	-Kataraktis. S. mole, head.	38° 32.7´ N 26° 06.6´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	30 **9**	3	Metal framework structure, gallery, metal column, red band.	
19932 *N 4647.71*	--S. mole, head.	38° 33.2´ N 26° 09.8´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	30 **9**	3	Metal framework structure, gallery, metal column, red band.	
19932.1 *N 4647.7*	-Ayia Ermioni, N. mole, head.	38° 18.0´ N 26° 09.0´ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	26 **8**	3	Metal framework structure, gallery, metal column, green band.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			TURKEY-GREECE				
19934 *N 4647.5*	-Akra Ayia Eleni, mole, head.	38° 19.9´ N 26° 09.6´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	23 **7**	3	Metal framework structure, gallery, metal column, red band.	
19938 *N 4643.5*	--N. breakwater, head.	38° 22.2´ N 26° 08.7´ E	**Fl.G.** period 3s fl. 1s, ec. 2s	33 **10**	12	White hexagonal hut, gallery, column, green band; 23.	
19938.1 *N 4646*	--S. breakwater, head.	38° 22.1´ N 26° 08.5´ E	**Fl.R.** period 3s fl. 1s, ec. 2s	33 **10**	12	White hexagonal hut, gallery, column, red band; 26.	
19942 *N 4643.25*	-Khios Marina. E. mole, head (Chios).	38° 23.4´ N 26° 08.4´ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	23 **7**	3	Metal framework structure, gallery, metal column, green band; 20.	
19944 *N 4643*	-Ormos Kolokithias, Langadha, on point.	38° 30.7´ N 26° 13.1´ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	23 **7**	3	Metal framework structure, gallery, metal column, green band; 20.	
19946 *N 4642*	-Vrakhonisis Strovilo.	38° 33.1´ N 26° 09.8´ E	**Fl.W.** period 5s fl. 1s, ec. 4s	239 **73**	10	White lantern; 13.	
19948 *N 4640*	-Vrakonisi Margariti, Ormos Marmaro, entrance.	38° 30.5´ N 26° 13.1´ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	102 **31**	5	Metal framework structure; 13.	
19950 *N 4640.5*	--Kardamyla, pier, head.	38° 32.7´ N 26° 06.6´ E	**Fl.G.** period 2s fl. 0.3s, ec. 1.7s	23 **7**	3	Metal framework structure, gallery, metal column; 13.	
	NISOS OINOUSSA:						
19952 *N 4652*	--Prasso, summit.	38° 28.8´ N 26° 07.6´ E	**Fl.(2)W.R.** period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	55 **17**	W. 6 R. 4	White lantern; 13.	W. 323°-301°, R.-323°.
19956 *N 4653*	--Mandhraki.	38° 22.3´ N 26° 08.5´ E	**Fl.W.** period 2s fl. 0.3s, ec. 1.7s	62 **19**	4	Metal framework structure; 16.	
19958 *N 4653.2*	--Breakwater, head.	38° 30.8´ N 26° 13.1´ E	**Q.G.**	30 **9**	3	White metal framework structure, gallery, green band; 20.	
19959 *N 4653.3*	--S. mole, head.	38° 30.6´ N 26° 13.2´ E	**Q.R.**	26 **8**	3	White hexagonal hut, gallery, column, red band; 20.	
19960 *N 4653.5*	--Inner mole, head.	38° 22.2´ N 26° 08.7´ E	**F.G.**	16 **5**	3	White concrete column, green band; 13.	
19968 *N 4654*	Nisidha Pasas	38° 30.1´ N 26° 17.5´ E	**Fl.(2)W.** period 20s fl. 1s, ec. 3s fl. 1s, ec. 15s	226 **69**	11	Round tower, dwelling; 23.	
	ILDIR KORFEZI:						
19970 *N 4655.5*	-Ufak Island (T.), N. point.	38° 23.5´ N 26° 25.8´ E	**Fl.(2)W.** period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	46 **14**	8	White metal framework tower; 33.	**AIS** (MMSI No 992711181).
19972 *N 4656.4*	-Altin Yunus, yacht harbor, breakwater, head.	38° 19.5´ N 26° 20.8´ E	**Fl.R.** period 5s		5		
19972.1 *N 4656.6*	--Breakwater, head.	38° 19.5´ N 26° 20.8´ E	**Fl.G.** period 5s		5		
19973 *N 4655.2*	-Dalyan.	38° 21.5´ N 26° 19.1´ E	**Fl.W.** period 5s fl. 1s, ec. 4s	33 **10**	7	White metal tower; 26.	**AIS** (MMSI No 992711161).
19974 *N 4655*	-Toprak Ada (T.), summit.	38° 19.3´ N 26° 20.9´ E	**Q.(9)W.** period 15s	79 **24**	7	White metal framework tower; 20.	**AIS** (MMSI No 992711162).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			TURKEY-GREECE				
19976 *N 4657*	Cesme Korfezi (T.), Fener Burnu.	38° 19.4´ N 26° 17.0´ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	33 **10**	8	White concrete tower; 13.	Fl.W. on TV tower 0.86 mile NE. **AIS** (MMSI No 992711167).
19977 *N 4656.24*	--Ferry Terminal, jetty, head.	38° 19.5´ N 26° 17.7´ E	**Fl.(2)Y.** period 4s	26 **8**	5		
19978 *N 4656.22*	--Jetty, head.	38° 19.4´ N 26° 17.9´ E	**Iso.Y.** period 3s	26 **8**	3		
19980 *N 4656*	-Kaloyeri (T.), on reef.	38° 19.7´ N 26° 16.1´ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	30 **9**	5	Black and white concrete building, yellow hexagonal top; 30.	**AIS** (MMSI No 992711163).
19984 *N 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°. **AIS** (MMSI No 992711164).
19987 *N 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 *N 4659*	Bozalan Burnu (T.)	38° 13.4´ N 26° 23.5´ E	**Fl.(2)W.** period 5s fl. 0.3s, ec. 1s fl. 0.3s, ec. 3.4s	108 **33**	7	White metal framework pylon; 26.	**AIS** (MMSI No 992711182).
19996 *N 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 metal framework tower; 26.	**AIS** (MMSI No 992711154).
19998 *N 4661.5*	Esek Adasi.	38° 12.1´ N 26° 46.2´ E	**Fl.W.** period 10s fl. 1s, ec. 9s	30 **9**	5	White metal framework tower; 20.	**AIS** (MMSI No 992711155).
19998.5 *N 4661.6*	-Sigacik Limani, N. breakwater, head.	38° 11.7´ N 26° 46.9´ E	**Fl.R.** period 4s fl. 1s, ec. 3s	30 **9**	3	White concrete tower.	
20000 *N 4662*	Doganbey Adasi.	38° 01.4´ N 26° 52.9´ 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.	**AIS** (MMSI No 992711184).
20004 *N 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, dwelling; 39.	**AIS** (MMSI No 992711188).
20008 *N 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 *N 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 *N 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	SPECIAL Y, tower, “X” topmark; 20.	
20014 *N 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	SPECIAL Y, tower, “X” topmark; 20.	
20016 *N 4665*	Baytak Adasi (T.).	37° 41.5´ N 27° 01.0´ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	75 **23**	8	White metal framework tower; 23.	**AIS** (MMSI No 992711187).
20018 *N 4665.05*	Tarsan Adasi.	37° 39.0´ 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.	**AIS** (MMSI No 992711186).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
	NISOS SAMOS (GR.):						
20019 *N 4682*	-Limin Karlovasi, N. breakwater, head.	37° 47.9´ N 26° 41.1´ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	30 **9**	3	Metal framework structure, gallery, metal column, green band; 23.	
20021	--E. breakwater, head.	37° 47.8´ 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 *N 4680*	--Akra Pangosi, W. side of entrance.	37° 47.8´ N 26° 40.5´ E	**Fl.W.** period 5s fl. 1s, ec. 4s	92 **28**	11	White metal column, gallery, round hut; 20.	
20030 *E 4665.9*	-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 *N 4667*	-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, gallery, column, red band; 26.	
20031.5 *N 4667.07*	-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 *N 4667.05*	--W. breakwater, head.	37° 45.3´ N 26° 58.5´ E	**F.G.**	20 **6**	3	White metal column, green band.	
20032.1 *N 4666*	-Akra Kotzikas.	37° 47.0´ N 26° 56.9´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	46 **14**	4	Metal framework structure, gallery, metal column, red band; 13.	
20033 *N 4666.2*	-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 structure, gallery, metal column; 10.	
20036 *N 4669*	-Akra Gatos.	37° 43.5´ N 27° 04.0´ 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 structure; 13.	
20037 *N 4669.3*	-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 structure, gallery, metal column, green band; 16.	
20038 *N 4669.5*	--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 structure, gallery, metal column, red band; 16.	
20040 *N 4670*	--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 structure; 13.	
20044 *N 4674*	--S. breakwater, head.	37° 41.2´ N 26° 56.9´ E	**Fl.R.** period 2s fl. 0.3s, ec. 1.7s	23 **7**	3	Metal framework structure; 13.	
20048 *N 4676*	--Inner Harbor, mole, head.	37° 41.4´ N 26° 56.7´ E	**Fl.G.** period 2s fl. 0.3s, ec. 1.7s	20 **6**	3	White hexagonal hut, column, green band; 13.	
20050 *N 4677*	-Limnonaki Bay.	37° 39.6´ N 26° 46.7´ E	**Fl.G.** period 2s fl. 0.3s, ec. 1.7s	30 **9**	3	White round hut, green band; 9.	
20051 *N 4677.8*	-Kolpos Marathokambou, Ormos Koumaiikon, mole, head.	37° 42.0´ N 26° 44.6´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	26 **8**	3	Metal framework structure, gallery, metal column, red band; 19.	
20051.1 *N 4677.5*	-Maratokapmos Harbor, N. mole, head.	37° 42.5´ N 26° 42.2´ E	**Fl.G.** period 5s		3		
20051.2 *N 4677.6*	--S. mole, head.	37° 42.5´ N 26° 42.2´ E	**Fl.R.** period 5s		3		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			TURKEY-GREECE				
20052 *N 4678*	-Akra Ayios Dhomenikos.	37° 40.5´ N 26° 35.5´ E	**Fl.W.** period 3.6s fl. 0.5s, ec. 3.1s	52 **16**	5	Metal framework structure; 16.	
	NISIDHES FOURNOI (GR.):						
20056 *N 4689*	-Ormos Fournoi, Akra Sbistokamiyos.	37° 34.4´ N 26° 28.3´ E	**Fl.W.R.** period 3.5s fl. 0.5s, ec. 3s	59 **18**	W. 4 R. 3	Metal framework structure, white round hut; 20.	R. 034°-138°, W.-172°, R.-243°.
20058 *N 4688.5*	-Khrisomilia, mole, head.	37° 37.6´ N 26° 30.3´ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	23 **7**	3	Metal framework structure, gallery, metal column, green band.	
20058.1 *N 4688.51*	- -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 structure, gallery, metal column, red band.	
20060 *N 4688*	-Akra Malaki.	37° 39.1´ N 26° 30.7´ E	**Fl.(2)W.** period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 9.5s	131 **40**	8	Metal framework structure; 16.	
20064 *N 4687*	-Akra Trakhilas.	37° 34.6´ N 26° 23.6´ E	**Fl.(2)W.** period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 12.5s	121 **37**	7	White round hut, column; 16.	
	NISOS IKARIA (GR.):						
20068 *N 4690*	**-Akra Pappas.**	37° 30.7´ N 25° 58.7´ E	**Fl.W.** period 20s fl. 1.3s, ec. 18.7s	246 **75**	**25**	Round tower, dwelling; 36.	
20070 *N 4695*	-Limin Kirikou, mole, head.	37° 36.7´ N 26° 17.9´ E	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s	29 **9**	4	Metal framework structure, white round hut, red band; 16.	
20072 *N 4694*	-Akra Dhrapanon, E. point.	37° 41.4´ N 26° 21.8´ E	**Fl.(3)W.** period 24s fl. 1s, ec. 3s fl. 1s, ec. 3s fl. 1s, ec. 15s	118 **36**	12	Metal framework structure, white square hut; 20.	
20076 *N 4693*	-Vrakhonisis Evdhilos.	37° 38.0´ N 26° 10.7´ E	**Fl.W.** period 7.5s fl. 0.6s, ec. 6.9s	62 **19**	11	Metal framework structure; 16.	Visible 100°-314°.
20078	-Ormos Evdhilou.	37° 38.0´ N 26° 11.0´ E	**Fl.G.** period 2s fl. 0.3s, ec. 1.7s	36 **11**	3	Metal framework structure, square hut, gallery; 23.	
20080 *N 4692*	-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	White lantern; 13.	
	NISOS GAIDHAROS (GR.):						
20084 *N 4776*	-S. point of island.	37° 26.8´ N 26° 57.5´ E	**Fl.W.** period 2s fl. 0.3s, ec. 1.7s	59 **18**	6	Metal framework structure; 13.	Visible 186°-033°. Obscured 308°-329° by Nisis Kounelei.
	NISOS PATMOS (GR.):						
20088 *N 4771*	-Limin Skala, breakwater, head.	37° 19.3´ N 26° 32.7´ E	**Fl.R.** period 1.5s fl. 0.2s, ec. 1.3s	23 **7**	3	Metal framework structure, white round hut, red band; 20.	
20092 *N 4770.6*	-Akra Aspri.	37° 19.6´ 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°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			TURKEY-GREECE				
20096 *N 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**	9	Metal framework structure; 13.	Visible 182°-086°.
20100 *N 4771.4*	-Skopeloi Tragos.	37° 17.4′ N 26° 34.7′ E	**Fl.(2)W.R.** period 12s fl. 0.3s, ec. 1.4s fl. 0.3s, ec. 10s	30 **9**	W. 5 R. 3	Metal framework structure, white round hut; 18.	R. 087°-232°, W.-087°.
20104 *N 4770*	-Akra Geranos, on point.	37° 20.4′ N 26° 36.8′ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	118 **36**	7	Metal framework structure; 13.	
20108 *N 4768.5*	Nisis Anidhro (Gr.).	37° 24.6′ N 26° 29.5′ 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 *N 4772.6*	Nisos Akri (Gr.), on Punta Cisterna.	37° 22.8′ N 26° 43.8′ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	46 **14**	5	Metal framework structure, white round hut; 16.	Visible 291°-129°.
20117 *N 4774.2*	-Pier, SW. head.	37° 17.7′ N 26° 45.8′ E	**F.R.**	20 **6**	3	White metal framework structure, gallery, metal column; 16.	
20120 *N 4773*	-Akra Gatto.	37° 17.6′ N 26° 44.9′ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	88 **27**	6	Metal framework structure, white round hut; 16.	Visible 243°30′-088°30′.
20124 *N 4775*	Nisidhes Kalapodhia (Gr.).	37° 15.3′ N 26° 48.7′ E	**Fl.W.** period 4s fl. 0.4s, ec. 3.6s	105 **32**	7	White metal framework structure; 13.	
20128 *N 4775.5*	Nisis Sarakina (Gr.).	37° 13.7′ N 26° 42.0′ E	**Fl.(2)W.** period 8s fl. 0.5s, ec. 1.6s fl. 0.5s, ec. 5.4s	75 **23**	8	Metal framework structure, white round hut; 18.	
	NISOS LEROS (GR.):						
20132 *N 4698*	-Ormos Alindhas.	37° 09.6′ N 26° 51.2′ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	53 **16**	5	White hexagonal hut, gallery, column; 30.	
	-Limin Lakki:						
20136 *N 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**	9	White pyramidal structure, gallery; 10.	
20140 *N 4703*	--Akra Angistro.	37° 06.6′ N 26° 49.9′ E	**Fl.W.** period 2.5s fl. 0.2s, ec. 2.3s	151 **46**	5	White round hut; 10.	
20144 *N 4704*	--Lakkion, pier, head, S. end.	37° 07.6′ N 26° 50.9′ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	23 **7**	4	Metal framework structure, white round hut, red band; 20.	
20146 *N 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**	3	Metal framework structure, gallery, metal column, red band.	
20148 *N 4705*	-Glaronisia.	37° 05.5′ N 26° 53.1′ E	**Fl.W.** period 2s fl. 0.3s, ec. 1.7s	46 **14**	4	Metal framework structure, white round hut; 16.	
20152 *N 4700*	-Ayios Kiriake.	37° 08.7′ 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**	5	Metal framework structure; 16.	
20156 *N 4777*	Farmakonisi (Gr.).	37° 16.8′ N 27° 05.3′ E	**Fl.(2)W.** period 14s fl. 1s, ec. 2s fl. 1s, ec. 10s	388 **118**	12	White pyramidal structure, gallery; 10.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
	MANDALYA KORFEZI (T.):						
20160 *N 4665.8*	-Tekagac Burnu.	37° 21.4´ N 27° 11.7´ E	**Fl.W.** period 15s fl. 1s, ec. 14s	49 **15**	10	White metal tower; 39.	**AIS** (MMSI No 992711190).
20162 *N 4665.7*	-Akbuk-Panayir Adasi.	37° 19.6´ N 27° 19.7´ 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	White concrete tower; 26.	**AIS** (MMSI No 992711192).
20164 *N 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	23 **7**	**18**	White concrete tower; 23.	**AIS** (MMSI No 992711280).
20164.1 *N 4665.35*	- -NE. mole, head.	37° 14.3´ N 27° 35.7´ E	**Fl.(2)Y.** period 8s fl. 1s, ec. 1s fl. 1s, ec. 5s	30 **9**	5	Yellow round tower; 23.	
20165 *N 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.	**AIS** (MMSI No 992711291).
20166 *N 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.	**AIS** (MMSI No 992711288).
20168 *N 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 metal tower; 30.	**AIS** (MMSI No 992711286).
20172 *N 4665.2*	-Kara Ada, NW. point.	37° 10.5´ N 27° 21.3´ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	56 **17**	10	White concrete tower; 20.	**AIS** (MMSI No 992711276).
20174 *N 4665.25*	Gundogan, breakwater.	37° 07.6´ N 27° 20.7´ E	**Fl.G.** period 5s fl. 1s, ec. 4s	33 **10**	5	White metal framework tower; 16.	**AIS** (MMSI No 992711283).
20175 *N 4665.18*	-Gemitasi.	37° 09.1´ N 27° 15.8´ E	**Iso.W.** period 3s	39 **12**	7		**AIS** (MMSI No 992711392).
20176 *N 4708.5*	Buyukkiremit Adasi (T.).	37° 05.2´ N 27° 12.6´ E	**Fl.(2)W.** period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	292 **89**	10	White concrete tower; 20.	**AIS** (MMSI No 992711279).
20180 *N 4708*	Kalolimnos (Gr.).	37° 03.5´ N 27° 06.4´ E	**Fl.W.** period 3s fl. 0.4s, ec. 2.6s	95 **29**	7	Metal framework structure; 16.	Visible 122°-055°.
20186 *N 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 structure, gallery; 10.	
20187 *N 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, green card, column, gallery.	
	NISIS PSERIMOS (GR.):						
20192 *N 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 structure, white round hut; 16.	W. 049°-349°, R.-049°.
20196 *N 4711*	-Akra Rousa, E. point of island.	36° 55.3´ N 27° 10.6´ E	**Fl.(2)W.R.** period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	141 **43**	W. 12 R. 9	White lantern; 13.	W. 182°-262°, R.-281°, W.-086°.
20200 *N 4711.5*	Nisis Safonidhi (Gr.).	36° 53.1´ N 26° 55.3´ E	**L.Fl.W.** period 10s fl. 2s, ec. 8s	210 **64**	9	White metal framework structure; 26.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			TURKEY-GREECE				
20204 *N 4708.7*	-Catal Ada (T.).	37° 00.6´ 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.	**AIS** (MMSI No 992711281).
20205 *N 4709*	Topan (T.).	37° 00.4´ N 27° 10.9´ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	177 **54**	7	White metal framework tower; 26.	**AIS** (MMSI No 992711277).
	KOS CHANNEL (T.):						
20208 *N 4712*	-Fener Burnu.	36° 57.9´ N 27° 15.9´ E	**Fl.(2)W.** period 15s fl. 0.5s, ec. 5s fl. 0.5s, ec. 9s	49 **15**	14	White concrete tower, dwelling; 30.	**AIS** (MMSI No 992711285).
	BODRUM LIMANI:						
20212 *N 4714*	-Kargi Ada, on islet.	36° 57.1´ N 27° 18.4´ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	108 **33**	8	White metal framework pylon; 26.	**AIS** (MMSI No 992711290).
20216 *N 4730*	-Bodrum, W. breakwater.	37° 01.9´ N 27° 25.5´ E	**Fl.R.** period 5s fl. 0.5s, ec. 4.5s	26 **8**	8	White concrete tower, dwelling; 23.	**AIS** (MMSI No 992711278).
20220 *N 4730.4*	-E. breakwater, head.	37° 01.9´ N 27° 25.5´ E	**Fl.G.** period 5s fl. 0.5s, ec. 4.5s	26 **8**	8	White concrete tower; 20.	**AIS** (MMSI No 992711282).
20221 *N 4730.7*	-Outer Harbor, pier, head.	37° 01.4´ N 27° 26.1´ E	**Fl.(3)Y.** period 8s	26 **8**	3		
20222 *N 4729*	-Haremten.	37° 00.9´ N 27° 24.9´ E	**Q.(6)+L.Fl.W.** period 15s	20 **6**	6	S. CARDINAL YB, pile, topmark; 13.	**AIS** (MMSI No 992711284).
20224 *N 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.	**AIS** (MMSI No 992711287).
	GOKOVA KORFEZI (T.):						
20228 *N 4731.2*	Orak Adasi.	36° 58.1´ N 27° 36.1´ E	**Fl.W.** period 10s fl. 1s, ec. 9s	56 **17**	7	White framework tower; 20.	**AIS** (MMSI No 992711289).
20230 *N 4731*	-Sanacak Burnu.	37° 01.3´ N 27° 58.1´ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	26 **8**	8	White metal framework tower; 16.	**AIS** (MMSI No 992711295).
20230.1 *N 4731.3*	-Akyaka, Gokova Limani.	37° 03.0´ N 28° 19.4´ E	**Fl.(2)R.** period 6s	26 **8**	5		
20232 *N 4731.4*	-Sehir Adalari, Orta Ada.	36° 59.9´ N 28° 12.3´ 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°. **AIS** (MMSI No 992711273).
20234 *N 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.	**AIS** (MMSI No 992711272).
20236 *N 4731.6*	-Koyun Burnu.	36° 55.5´ N 28° 01.2´ E	**Fl.(3)W.** period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	43 **13**	7	White metal framework tower; 26.	**AIS** (MMSI No 992711275).
20237 *N 4731.55*	-Korem Adalari, W. mole, head.	36° 56.4´ N 28° 07.5´ E	**Fl.(2)W.** period 8s	26 **8**	5		
20237.1 *N 4731.53*	--E. mole, head.	36° 56.4´ N 28° 07.6´ E	**Q.W.**	16 **5**	2	N. CARDINAL BY, column, topmark; 10.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			TURKEY-GREECE				
20238 *N 4731.65*	-Mersincik Burnu.	36° 50.1´ N 28° 00.2´ E	**Fl.W.R.** period 3s fl. 0.3s, ec. 2.7s	98 **30**	W. 7 R. 5	White framework tower; 16.	W. 270°-154°, R.-270°. **AIS** (MMSI No 992711294).
20240 *N 4731.7*	-Ince Burnu.	36° 48.8´ N 27° 38.5´ E	**Fl.(2)W.** period 5s fl. 0.2s, ec. 1.2s fl. 0.2s, ec. 3.4s	157 **48**	10	White metal framework pylon; 26.	**AIS** (MMSI No 992711274).
	NISOS KOS (GR.):						
20244 *N 4722*	-Akra Ammoglossa.	36° 54.9´ N 27° 16.8´ E	**Fl.R.** period 4s fl. 0.8s, ec. 3.2s	23 **7**	9	White metal framework structure, red band; 16.	Visible 080°-320°.
20255 *N 4725.9*	-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 structure, column, gallery, green band.	
20256 *N 4726*	--W. mole, head.	36° 53.9´ N 27° 17.3´ E	**Q.G.**	30 **9**	3	White hexagonal hut, column, gallery, green band; 26.	
20257 *N 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	White hexagonal hut, column, gallery, red band; 26.	
20258 *N 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 structure, gallery, metal column, green band; 20.	
20258.5 *N 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 structure, gallery, metal column, red band; 20.	
20260 *N 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. 6 R. 4	Metal framework structure, white square hut; 23.	W. 130°-060°, R.-130°.
20261 *N 4726.8*	-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, red band; 16.	
20264 *N 4727*	-Akra Ayios Fokas.	36° 51.5´ N 27° 21.3´ E	**Fl.W.** period 4s fl. 0.4s, ec. 3.6s	75 **23**	6	Metal framework structure; 23.	
20265 *N 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 structure, gallery, metal column, red band; 20.	
20266 *N 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 structure, gallery, metal column, green band; 20.	
20268 *N 4727.6*	-Ormos Kamari.	36° 44.2´ N 26° 58.3´ E	**Fl.R.** period 2s fl. 0.3s, ec. 1.7s	23 **7**	4	Metal framework structure, red band; 13.	
20269 *N 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 structure, gallery, metal column, green band; 20.	
20270 *N 4727.7*	-Mastikhari, mole, head.	36° 51.1´ N 27° 04.6´ E	**Fl.G.** period 3s fl. 1s, ec. 2s	33 **10**	6	White hexagonal hut, gallery, column, green band; 30.	
	NISIS YIALI (GR.):						
20272 *N 4716*	-Ayios Andonios.	36° 39.7´ N 27° 08.3´ E	**Fl.W.** period 2s fl. 0.3s, ec. 1.7s	46 **14**	5	Metal framework structure, white round hut; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			TURKEY-GREECE				
	NISOS NISIROS (GR.):						
20276 *N 4718*	-Mandrakion, small mole, head.	36° 36.9′ N 27° 08.4′ E	**Q.G.**	20 **6**	3	Metal framework structure, white round hut; 16.	
20280 *N 4720*	-Akra Palos.	36° 37.2′ N 27° 11.3′ E	**Fl.(2)W.** period 9s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 6.2s	92 **28**	12	Metal framework structure; 16.	
			GREECE-DHODHEKANISOI				
	NISOS TILOS (GR.):						
20284 *N 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 structure; 13.	
20285 *N 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 structure, gallery, metal column, red band.	
20285.1 *N 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 structure, gallery, metal column, green band.	
20288 *N 4721.4*	-Ormos Livadhia.	36° 24.9′ N 27° 24.2′ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	85 **26**	3	Metal framework structure, red band; 16.	
20292 *N 4764*	**Nisis Kandhelousa** (Gr.).	36° 29.9′ N 26° 57.6′ E	**Fl.W.** period 10s fl. 0.3s, ec. 9.7s	181 **55**	**17**	Round tower, dwelling; 33.	
20300 *N 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 structure, white round hut, green band; 16.	
20304 *N 4767*	-Akra Palli.	36° 34.8′ N 26° 20.1′ E	**Fl.W.R.** period 3s fl. 0.3s, ec. 2.7s	39 **12**	W. 5 R. 3	Metal framework structure, white round hut; 17.	W. 138°-172°, R.-237°, W.-354°.
20308 *N 4765*	-Akra Floudha.	36° 38.6′ N 26° 22.7′ E	**Fl.(2)W.** period 14s fl. 1s, ec. 2s fl. 1s, ec. 10s	338 **103**	12	Metal framework structure; 16.	
20312 *N 4766*	-Limin Skala, N. side of entrance.	36° 33.1′ N 26° 21.4′ E	**Fl.W.R.** period 3s fl. 0.4s, ec. 2.6s	52 **16**	W. 5 R. 3	White metal framework structure; 10.	W. 193°-261°, R.-293°, W.-080°.
20313 *N 4765.8*	-Skala Astipalaia, SE. quay.	36° 32.9′ N 26° 21.4′ E	**3 F.R.** (vert.)	23 **7**	3	White metal column, red band.	Lights form inverted L.
20314 *N 4765.82*	--NW. Quay.	36° 32.9′ N 26° 21.3′ E	**3 F.G.** (vert.)	23 **7**	3	White metal column, green band; 23.	Lights form inverted L.
20316 *N 4765.7*	-Nisis Khondro, E. side.	36° 33.9′ N 26° 24.2′ E	**Fl.W.** period 4.5s fl. 0.3s, ec. 4.2s	49 **15**	4	Metal framework structure; 10.	Visible 121°-323°.
20320 *N 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 structure; 12.	
20324 *N 4764.5*	Nisis Plakhida.	36° 17.0′ N 26° 44.4′ E	**Fl.W.R.** period 3s fl. 0.3s, ec. 2.7s	276 **84**	W. 9 R. 6	White metal framework structure; 13.	R. 068°-248°, W.-068°.
20328 *N 4760.3*	Nisis Astakidha.	35° 52.4′ N 26° 49.4′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	190 **58**	8	Metal framework structure; 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 *N 4761*	Nisidhes Sofrana.	36° 04.9´ N 26° 23.5´ E	**Fl.W.** period 10s fl. 0.5s, ec. 9.5s	121 **37**	10	Metal framework structure; 26.	
20336 *N 4760.7*	Ounianisia.	35° 49.6´ N 26° 27.7´ E	**Fl.(2)W.** period 16s fl. 1s, ec. 2s fl. 1s, ec. 12s	345 **105**	7	Metal framework structure, white round hut; 18.	
20340 *N 4761.3*	Kamilonisi.	35° 51.9´ N 26° 13.6´ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	135 **41**	5	Metal framework structure; 23.	
	NISIS KASOS (GR.):						
20344 *N 4761.8*	-Emborios.	35° 25.0´ N 26° 56.0´ E	**Fl.G.** period 1.5s fl. 0.2s, ec. 1.3s	36 **11**	3	Metal framework structure, gallery, column, green band; 26.	
20348 *N 4762*	-Bouka.	35° 25.1´ N 26° 55.4´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	26 **8**	3	Metal framework structure, white round hut, red band; 18.	
20352 *N 4763*	- -Akra Ayios Yeoryios.	35° 25.1´ N 26° 55.2´ E	**Fl.W.R.** period 3s fl. 0.3s, ec. 2.7s	98 **30**	W. 5 R. 3	White metal framework structure; 10.	R. 083°-175°, W.-241°, R.-251°, W.-257°.
20356 *N 4763.5*	**-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 *N 4763.2*	-Akra Aviaki.	35° 20.9´ N 26° 50.9´ E	**Fl.W.** period 4s fl. 0.6s, ec. 3.4s	33 **10**	6	Metal framework structure, white round hut; 18.	
20364 *N 4761.5*	-Nisis Strongili.	35° 26.4´ N 27° 00.9´ 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 framework structure; 18.	W. 091°-243°, R.-258°, W.-006°.
	NISOS KARPATHOS (GR.):						
20366 *N 4757*	-Akra Kastellos.	35° 23.9´ N 27° 08.1´ E	**Fl.W.R.** period 3s fl. 0.5s, ec. 2.5s	39 **12**	W. 7 R. 4	White metal framework structure.	R. 225°-252°, W.-134°.
20368 *N 4757.5*	-Foiniki.	35° 29.4´ N 27° 06.9´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	30 **9**	3	Metal framework structure, gallery, red band.	
20372 *N 4758.4*	-Dhiafani.	35° 45.2´ N 27° 12.8´ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	59 **18**	4	Metal framework structure; 20.	
20374 *N 4758.45*	- -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 structure, gallery, red band.	
20376 *N 4760*	-Nisis Saria, Akra Paraspori.	35° 54.1´ N 27° 13.7´ E	**Fl.(2)W.** period 16s fl. 1s, ec. 2s fl. 1s, ec. 12s	161 **49**	12	Metal framework structure; 20.	
20380 *N 4759*	-Ormos Tristoma, S. islet.	35° 49.3´ N 27° 12.1´ E	**Fl.R.** period 5s fl. 0.7s, ec. 4.3s	39 **12**	4	Metal framework structure, white round hut, red band.	
20381 *N 4758.1*	-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 structure, gallery, metal column, red band.	
20382 *N 4758.2*	-Nisidha Dhespotiko.	35° 30.8´ N 27° 12.7´ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	39 **12**	6	Metal framework structure; 13.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			GREECE-DHODHEKANISOI				
	NISOS NISAKI (GR.):						
20384 *N 4739*	-Summit of island.	36° 13.2´ N 27° 37.7´ E	**Fl.W.R.** period 6s fl. 1s, ec. 5s	246 **75**	W. 8 R. 6	White metal framework structure, gallery, metal column; 10.	R. 232°-244°, W.-280°, R.-297°, W.-232°.
	NISOS RODHOS (GR.):						
20388 *N 4756*	**-Akra Prasonisi.**	35° 52.7´ 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, dwelling; 46.	Visible 273°-179°.
20392 *N 4740*	-Nisis Tragousa, summit of island.	36° 13.3´ N 27° 42.3´ 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 structure, gallery; 13.	R. 112°-125°, W.-112°.
20394 *N 4738*	--Emporeio Bay.	36° 13.5´ N 27° 37.4´ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	39 **12**	6	White metal framework structure, gallery, metal column; 13.	Visible 175°-045°.
20396 *N 4741*	-Skala Kamiros.	36° 16.3´ N 27° 49.5´ E	**Fl.W.** period 3s fl. 0.4s, ec. 2.6s	66 **20**	8	Metal framework structure, white round hut; 16.	
20398 *N 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 structure, gallery, green band.	
20398.1 *N 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 structure, gallery, red band.	
20400 *N 4742.5*	-Rodhos AVIATION LIGHT.	36° 24.3´ N 28° 05.3´ E	**Al.Fl.W.G.** period 6s			Control tower.	
20408 *N 4743*	-Akra Milon (Koum), NE. extremity of island.	36° 27.5´ N 28° 13.2´ E	**Fl.W.R.** period 4s fl. 0.4s, ec. 3.6s	33 **10**	W. 6 R. 4	Metal framework structure, gallery, metal column; 16.	W. 037°-286°, R.-314°.
	-Limin Rodhos:						
20412 *N 4745*	--Akra Aoimbakadhartiriou.	36° 27.2´ N 28° 13.6´ E	**Fl.R.G.** period 3s fl. 0.3s, ec. 2.7s	26 **8**	3	Metal framework structure, gallery, metal column.	G. 206°-111°, R.-206°.
20416 *N 4744*	--Ayios Nikolaos.	36° 27.1´ N 28° 13.7´ E	**Fl.(2)W.** period 12s fl. 1.2s, ec. 3s fl. 1.2s, ec. 6.6s	79 **24**	11	Masonry tower, lantern; 20.	
20428 *N 4749*	--Limin Emborikos (Porto Mercantile), E. breakwater.	36° 26.9´ N 28° 13.9´ E	**Fl.R.** period 2s fl. 0.2s, ec. 1.8s	26 **8**	4	Metal framework structure, red band; 20.	
20432 *N 4750*	---Breakwater, head.	36° 26.8´ N 28° 13.8´ E	**Fl.G.** period 2s fl. 0.2s, ec. 1.8s	39 **12**	4	Metal framework structure, green band.	
20434 *N 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 structure, gallery, red band; 20.	
20435 *N 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 structure, gallery, metal column, green band; 20.	
20435.5 *N 4751.7*	--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 structure, gallery, metal column, red band; 26.	
20435.6 *N 4752.5*	-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 structure, gallery, 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				
20435.7 *N 4752.4*	- -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 structure, gallery, metal column, red band; 23.	
20436 *N 4755.5*	-Ormos Lardhos.	36° 04.0´ N 28° 00.2´ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	30 **9**	3	Metal framework structure, gallery, metal column, green band; 23.	
20440 *N 4755*	-Vakros Paximadha.	36° 01.3´ N 28° 05.6´ E	**Fl.W.R.** period 4s fl. 0.4s, ec. 3.6s	79 **24**	W. 9 R. 6	Metal framework structure, white round hut; 20.	W. 184°-139°, R.-184°.
			TURKEY-SOUTH COAST				
20452 *N 4732*	Deveboynu Burnu.	36° 41.2´ N 27° 21.8´ E	**Fl.(2)W.** period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	340 **104**	12	White concrete tower, dwelling; 30.	Visible 315°-183°. **AIS** (MMSI No 992711292).
	RACON		**V(• • • –)**		**20**		(3 & 10cm).
20456 *N 4732.5*	Ince Burun.	36° 39.5´ N 27° 40.8´ E	**Fl.(3)W.** period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 10.5s	46 **14**	8	White concrete tower; 26.	**AIS** (MMSI No 992711293).
20460 *N 4733*	Uzunca Adasi.	36° 43.5´ N 27° 42.9´ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	34 **10**	3	White concrete tower; 16.	**AIS** (MMSI No 992711248).
	NISOS SIMI (GR.):						
20464 *N 4734*	-Vrakhonisis Khondros.	36° 39.2´ N 27° 49.1´ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	82 **25**	5	Metal framework structure, white round hut; 20.	
20466 *N 4734.2*	-Akra Makria, Nisos Nimos, N. point.	36° 40.0´ N 27° 51.4´ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	52 **16**	6	White metal framework structure; 20.	
20468 *N 4735.1*	-Akra Pedhi (Filonika).	36° 37.0´ N 27° 52.6´ E	**Fl.W.** period 6s fl. 0.4s, ec. 5.6s	66 **20**	4	Metal framework structure, white round hut; 16.	
20472 *N 4735*	-Akra Koutsoumba.	36° 37.8´ N 27° 52.2´ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	69 **21**	5	House; 16.	
20476 *N 4734.4*	-Porto Simis.	36° 37.0´ N 27° 50.2´ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	26 **8**	3	Metal framework structure, gallery, green band.	
20480 *N 4735.2*	-Limin Panormitou.	36° 33.1´ N 27° 50.6´ E	**Fl.R.** period 2s fl. 0.2s, ec. 1.8s	46 **14**	3	White round hut, column, red band; 13.	
20484 *N 4735.5*	**-Nisis Koulohdros**.	36° 30.8´ 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**	Metal framework structure, gallery, white round hut; 20.	
20488 *N 4736*	-Marmara Islet.	36° 33.6´ N 27° 44.8´ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	125 **38**	6	Metal framework structure; 13.	
20492 *N 4737*	Karaburun.	36° 33.2´ 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.	**AIS** (MMSI No 992711251).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			TURKEY-SOUTH COAST				
20496 *N 5836*	Kadirga Burnu, near extremity.	36° 43.8´ 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 metal column, dwelling; 39.	**AIS** (MMSI No 992711267).
20499 *N 5837*	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; 13.	
20500 *N 5838*	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, dwelling; 39.	**AIS** (MMSI No 992711269).
20500.5 *N 5838.1*	Icmeler.	36° 48.1´ N 28° 14.4´ E	**Fl.Y.** period 5s	26 **8**	3		
20501 *N 5838.2*	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 metal tower; 20.	**AIS** (MMSI No 992711266).
20501.1 *N 5838.27*	Marmaris, town, W. side.	36° 51.1´ N 28° 16.3´ E	**Fl.(4)Y.** period 12s	23 **7**	3		
20501.2 *N 5838.28*	--E.side.	36° 51.0´ N 28° 16.5´ E	**Fl.(4)Y.** period 10s	26 **8**	3		
20501.3 *N 5838.29*	-W. breakwater, head.	36° 51.1´ N 28° 16.6´ E	**Fl.R.** period 4s	26 **8**	3		
20502 *N 5838.3*	-S. breakwater.	36° 51.0´ N 28° 16.6´ E	**Fl.G.** period 4s	23 **7**	3	White metal structure; 10.	
20502.1 *N 5838.35*	-N. breakwater.	36° 51.1´ N 28° 16.7´ E	**Fl.(2)R.** period 6s	26 **8**	5	White metal structure; 10.	
20503.1 *N 5838.37*	-Outer pier, head.	36° 50.9´ N 28° 17.0´ E	**Fl.R.**				
20503.2 *N 5838.375*	Delihurma, outer breakwater.	36° 50.6´ N 28° 17.1´ E	**Fl.(2)G.** period 4s	20 **6**	3		
20503.21 *N 5838.378*	-Inner breakwater.	36° 50.6´ N 28° 17.2´ E	**Fl.(2)R.** period 4s	20 **6**	3		
20503.3 *N 5838.379*	Karayar.	36° 49.3´ N 28° 18.6´ E	**Fl.G.** period 5s	39 **12**	3		
20504 *N 5838.4*	Yilancik Adasi.	36° 46.3´ N 28° 26.3´ E	**Fl.W.R.** period 5s fl. 1s, ec. 4s	335 **102**	W. 10 R. 7	White metal framework tower; 23.	W. 098°-086°, R.-098°. **AIS** (MMSI No 992711271).
20506 *N 5838.5*	Delikkaya Burnu.	36° 49.7´ N 28° 25.4´ E	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s	328 **100**	8	White metal framework tower; 20.	
20508 *N 5838.6*	Bugluca.	36° 50.2´ N 28° 27.1´ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	220 **67**	6	White metal framework tower; 33.	**AIS** (MMSI No 992711268).
20509 *N 5838.65*	Aksaz.	36° 50.5´ N 28° 23.1´ E	**Fl.R.** period 5s fl. 0.5s, ec. 4.5s	82 **25**	3	White metal framework tower; 20.	
20510 *N 5838.7*	Kargili Burnu.	36° 51.6´ N 28° 26.0´ E	**Q.W.**	197 **60**	10	White metal framework tower; 20.	
20512 *N 5839.4*	Karacay.	36° 49.3´ N 28° 33.0´ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	131 **40**	5	White metal framework tower; 23.	**AIS** (MMSI No 992711265).
20516 *N 5839*	Dalyan, on the islet.	36° 47.7´ N 28° 35.8´ E	**Fl.(2)W.** period 5s fl. 0.3s, ec. 1s fl. 0.3s, ec. 3.4s	115 **35**	8	White metal tower; 20.	**AIS** (MMSI No 992711250).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			TURKEY-SOUTH COAST				
20520 *N 5839.45*	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.	**AIS** (MMSI No 992711264).
20528 *N 5844.2*	Ilbiz Burnu.	36° 32.6´ N 29° 00.5´ E	**Fl.(2)W.** period 5s fl. 0.3s, ec. 1s fl. 0.3s, ec. 3.4s	75 **23**	10	White metal framework pylon; 26.	**AIS** (MMSI No 992711257).
20529 *N 5844.22*	-Gemiler Adasi.	36° 33.2´ N 29° 04.1´ E	**Fl.W.R.** period 4s fl. 1s, ec. 3s	318 **97**	10	Reinforced concrete brick structure; 13.	W. 117°-016°, R.-100°. **AIS** (MMSI No 992711259).
20532 *N 5839.5*	Peksimet Adasi.	36° 34.0´ N 28° 49.5´ E	**Fl.W.** period 10s fl. 1s, ec. 9s	115 **35**	12	Metal framework tower; 26.	**AIS** (MMSI No 992711262).
	FETHIYE KORFEZI:						
20536 *N 5841*	**-Kizil Adalar.**	36° 39.2´ N 29° 02.6´ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	105 **32**	**15**	White concrete tower, dwelling; 43.	**AIS** (MMSI No 992711247).
	-RACON		**O(– – –)**		**20**		(3 & 10cm).
20538 *N 5843.5*	-Pacariz Burnu.	36° 38.5´ N 29° 06.1´ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	46 **14**	4	White hexagonal concrete tower, green top; 26.	**AIS** (MMSI No 992711261).
20540 *N 5842*	-Megri Adasi, S. point.	36° 38.8´ N 29° 05.9´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	56 **17**	3	White metal column; 20.	**AIS** (MMSI No 992711253).
20550 *N 5843.7*	-Breakwater, head.	36° 37.5´ N 29° 06.0´ E	**Fl.R.** period 5s fl. 1s, ec. 4s	20 **6**	4	Red framework tower; 13.	
20551 *N 5843.8*	--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; 13.	
20551.1 *N 5843.6*	-Fethiye Limani.	36° 37.4´ N 29° 06.3´ E	**Iso.Y.** period 3s	30 **9**	5	Yellow cylindrical tower; 16.	
20552 *N 5840*	-Gocek Adasi (Kizlan Ada).	36° 43.6´ N 28° 57.0´ E	**Fl.(2)W.** period 10s fl. 0.4s, ec. 1.6s fl. 0.4s, ec. 7.6s	39 **12**	8	White metal framework tower; 20.	**AIS** (MMSI No 992711254).
20556 *N 5840.4*	-Gocek Limani, 1,152 meters 255°30′ from pier.	36° 44.9´ N 28° 55.7´ 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°. **AIS** (MMSI No 992711256).
20557 *N 5840.48*	--Breakwater, head.	36° 45.2´ N 28° 56.4´ E	**Fl.(2)Y.** period 6s	26 **8**	5		
20557.1 *N 5840.49*	--S. breakwater, head.	36° 45.1´ N 28° 56.4´ E	**Fl.Y.** period 3s	26 **8**	5		
20558 *N 5844.21*	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 *N 5844.4*	Kutuburun.	36° 23.3´ 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 framework tower; 20.	**AIS** (MMSI No 992711263).
20564 *N 5844.6*	Catal Adasi, SW. point.	36° 12.6´ N 29° 20.8´ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	249 **76**	9	White metal framework tower; 20.	**AIS** (MMSI No 992711206).
20565 *N 5844.8*	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; 23.	**AIS** (MMSI No 992711207).
20566 *N 5844.83*	-Entrance, W. side.	36° 15.8´ N 29° 24.9´ E	**Fl.G.** period 5s fl. 1s, ec. 4s	33 **10**	5	White concrete tower; 23.	**AIS** (MMSI No 992711208).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			TURKEY-SOUTH COAST				
20568 *N 5847.6*	Bucak Roads, Kas Mevkil.	36° 12.4´ N 29° 37.0´ 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°. **AIS** (MMSI No 992711213).
	NISOS MEYISTI (GR.):						
20572 *N 5845*	-Akra Agios Stefanes.	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; 16.	W. 060°-086°, R.-125°, W.-254°.
20576 *N 5846*	-Meyisti, E. side of entrance.	36° 09.1´ N 29° 35.6´ E	**Fl.R.** period 2.4s fl. 0.2s, ec. 2.2s	30 **9**	3	Metal framework structure, white square hut, red band; 20.	
20580 *N 5847*	Bayindir Limani, Kas.	36° 11.0´ N 29° 38.5´ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	33 **10**	5	White metal framework tower; 20.	**AIS** (MMSI No 992711205).
20580.1	-Kas Kayalik.	36° 11.7´ N 29° 35.1´ E	**Fl.(2)W.** period 5s	26 **8**	5		
20580.5 *N 5847.5*	-Bucak Denizi. mole, head.	36° 12.3´ N 29° 37.5´ E	**Fl.Y.** period 10s		3		
20584 *N 5848*	**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, dwelling; 23.	
20588 *N 5848.4*	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.-355°. **AIS** (MMSI No 992711211).
20592 *N 5848.2*	Kekova Adasi, SW. point.	36° 10.2´ N 29° 50.6´ E	**Fl.(2)W.** period 5s fl. 0.3s, ec. 1s fl. 0.3s, ec. 3.4s	180 **55**	8	Framework tower; 33.	**AIS** (MMSI No 992711212).
20596 *N 5848.5*	-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.	**AIS** (MMSI No 992711210).
	FINIKE KORFEZI:						
20604 *N 5849*	-Finike.	36° 16.8´ N 30° 09.0´ E	**Fl.(2)W.** period 7s fl. 1s, ec. 1s fl. 1s, ec. 4s	98 **30**	12	White round metal tower, black bands; 20.	**AIS** (MMSI No 992711201).
20608 *N 5849.4*	--E. breakwater, head.	36° 17.7´ N 30° 09.1´ E	**Fl.R.** period 5s fl. 0.4s, ec. 4.6s	42 **13**	6	White concrete tower; 43.	**AIS** (MMSI No 992711202).
20612 *N 5849.6*	--W. breakwater, head.	36° 17.7´ N 30° 09.0´ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	43 **13**	6	White concrete tower; 43.	**AIS** (MMSI No 992711203).
20616 *N 5850*	**-Gelidonya Burnu.**	36° 12.6´ N 30° 26.3´ 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.	**AIS** (MMSI No 992711218).
20620 *N 5852*	-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.	**AIS** (MMSI No 992711217).
20624 *N 5854*	Adrasan Limani, S. side of entrance.	36° 17.9´ N 30° 29.2´ E	**Mo.(A)W.** period 15s fl. 0.5s, ec. 1.5s fl. 2s, ec. 11s	147 **45**	8	White metal framework tower; 33.	**AIS** (MMSI No 992711216).
20628 *N 5854.4*	Av Burnu.	36° 35.7´ N 30° 35.3´ E	**Fl.W.** period 10s fl. 1s, ec. 9s	460 **140**	12	Metal framework tower; 20.	**AIS** (MMSI No 992711214).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			TURKEY-SOUTH COAST				
20630 *N 5854.8*	-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	Framework tower, concrete platform; 16.	**AIS** (MMSI No 992711215).
20631 *N 5855.5*	Antalya Limani, inner basin, W. pier, head.	36° 50.0´ N 30° 36.4´ E	**Fl.(2)R.** period 4s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2s	16 **5**	3	Cylindrical metal tower.	
20631.1 *N 5855.51*	--E. pier, head.	36° 50.0´ N 30° 36.5´ E	**Fl.(2)G.** period 4s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2s	16 **5**	3	Cylindrical metal tower.	
20632 *N 5855*	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.	**AIS** (MMSI No 992711221).
20636 *N 5855.4*	-Lee breakwater.	36° 50.1´ N 30° 36.8´ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	46 **14**	6	White concrete tower; 33.	**AIS** (MMSI No 992711222).
20640 *N 5857*	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.	**AIS** (MMSI No 992711220).
20644 *N 5856*	-S. mole.	36° 53.0´ N 30° 42.1´ E	**Fl.G.** period 3s fl. 0.4s, ec. 2.6s	23 **7**	4	White metal tower; 16.	**AIS** (MMSI No 992711219).
20648 *N 5858*	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.	**AIS** (MMSI No 992711223).
20652 *N 5859*	Selimiye, on extremity of point.	36° 45.8´ N 31° 23.3´ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	46 **14**	9	Metal tower; 39.	**AIS** (MMSI No 992711224).
20652.1 *N 5858.5*	-W. rock.	36° 46.1´ N 31° 22.9´ E	**Q.(9)W.** period 15s		5	W. CARDINAL YBY, pile, topmark.	
20652.2	-E. rock.	36° 45.3´ N 31° 24.4´ E	**Q.(6)+L.Fl.W.** period 15s		5	S. CARDINAL YB, pile, topmark.	
20656 *N 5860*	**Alanya.**	36° 31.8´ N 31° 59.5´ E	**Fl.W.** period 20s fl. 0.2s, ec. 19.8s	686 **209**	**20**	White stone tower, dwelling; 20.	Visible 249°-108°. **AIS** (MMSI No 992711200).
20660 *N 5861*	Selinti Burnu.	36° 14.1´ N 32° 17.7´ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	108 **33**	8	White metal framework pylon; 26.	**AIS** (MMSI No 992711204).
20664 *N 5862*	**Anamur Burnu.**	36° 01.0´ N 32° 48.2´ E	**Fl.(2)W.** period 5s fl. 0.3s, ec. 1s fl. 0.3s, ec. 3.4s	223 **68**	**15**	White stone tower, dwelling; 33.	**AIS** (MMSI No 992711233).
20668 *N 5866*	Soguksu Limani, Aydincik, E. side of entrance.	36° 08.6´ N 33° 19.4´ E	**Fl.W.** period 5s fl. 1s, ec. 4s	75 **23**	9	White metal framework tower; 13.	**AIS** (MMSI No 992711235).
20668.1 *N 5866.2*	Sancak Burnu.	36° 07.5´ N 33° 23.6´ E	**Fl.(3)W.** period 10s	39 **12**	10		**AIS** (MMSI No 992711353).
20669 *N 5866.5*	Ovacik, W. breakwater, head.	36° 11.2´ N 33° 39.2´ E	**Fl.G.** period 5s fl. 0.5s, ec. 4.5s	39 **12**	5	Concrete tower; 30.	
20669.1 *N 5866.51*	-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 *N 5867*	**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.	**AIS** (MMSI No 992711246).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			TURKEY-SOUTH COAST				
20672 *N 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, concrete base; 13.	Visible 131°-022°. **AIS** (MMSI No 992711234).
20673 *N 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 *N 5871*	Limankalesi, Aghaliman Burnu.	36° 16.6′ 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 *N 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 *N 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 *N 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° 18.7′ N 33° 53.6′ E	**Fl.R.** period 3s fl. 1s, ec. 2s	23 **7**	5	Red concrete tower, white band; 13.	**AIS** (MMSI No 992711243).
20697 *N 5871.59*	-Tirtar Marina.	36° 31.8′ N 34° 13.8′ E	**Fl.G.** period 4s		7		
20698 *N 5871.6*	--.	36° 31.9′ N 34° 13.9′ E	**Fl.R.** period 4s	30 **9**	7		
	MERSIN LIMANI:						
20708 *N 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, dwelling; 39.	**AIS** (MMSI No 992711244).
20712 *N 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.	**AIS** (MMSI No 992711236).
20716 *N 5872.4*	--Elbow.	36° 47.0′ N 34° 38.1′ E	**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′, R.-219°.
20720 *N 5873*	-N. breakwater, head.	36° 47.2′ N 34° 38.6′ E	**Fl.G.** period 3s fl. 1s, ec. 2s	30 **9**	10	White concrete tower; 16.	F.R. on silos 1 mile NNE. **AIS** (MMSI No 992711237).
20721.1 *N 5873.4*	-Commericial 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 *N 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 *N 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 *N 5873.55*	-Ferry Quay, head.	36° 48.3′ 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 *N 5873.2*	-Harbor Range, front.	36° 48.4´ 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 *N 5873.3*	- -Rear, about 189 meters 40°30′ from front.	36° 48.5´ N 34° 39.7´ E	**Oc.G.** period 3s lt. 2s, ec. 1s	79 **24**	7	Metal framework tower, concrete base; 66.	
20729 *N 5873.05*	-Liquid Bulk Jetty, head.	36° 48.1´ N 34° 39.4´ E	**Oc.Y.**	30 **9**	3	Yellow post; 10.	
20730 *N 5873.03*	-Poas Isk jetty.	36° 48.1´ N 34° 39.5´ E	**F.R.**				
20744 *N 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 *N 5873.7*	- -Small breakwater, head.	36° 48.3´ N 34° 41.8´ E	**Fl.G.** period 4s	43 **13**	5	Concrete tower; 13.	
20752 *N 5873.8*	Deli Burnu.	36° 43.4´ N 34° 54.6´ E	**Fl.W.** period 5s fl. 0.3s, ec. 1s fl. 0.3s, ec. 3.4s	56 **17**	5	White metal framework pylon; 49.	
20756 *N 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, dwelling; 39.	**AIS** (MMSI No 992711194).
20760 *N 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.	**AIS** (MMSI No 992711196).
20764 *N 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.	**AIS** (MMSI No 992711193).
20766 *N 5874.6*	- -On Island.	36° 33.5´ N 35° 23.8´ E	**Fl.(2)R.** period 10s fl. 1s, ec. 1s fl. 1s, ec. 7s	33 **10**	9	White metal framework tower; 19.	**AIS** (MMSI No 992711195).
20768 *N 5875*	Yumurtalik.	36° 46.7´ N 35° 48.0´ E	**Fl.(2)W.** period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	98 **30**	10	White metal framework tower; 33.	**AIS** (MMSI No 992711197).
20772 *N 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.	**AIS** (MMSI No 992711198).
20776 *N 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.	**AIS** (MMSI No 992711199).
	-RACON		**Y(– • – –)**				(3 & 10cm).
20780 *N 5910*	Sugozu Termik Santrali.	36° 50.1´ N 35° 53.0´ E	**Fl.(3)R.** period 10s	20 **6**	5	Galvanised metal tower.	
20781 *N 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 *N 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	Galvanized metal tower.	
20786 *N 5911*	Kamisli Burun, jetty, head.	36° 51.0´ N 35° 55.9´ E	**Mo.(U)R.** period 16s	43 **13**	5		**AIS** (MMSI No 992711408).
20788 *N 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.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			TURKEY-SOUTH COAST				
20792 *N 5912.02*	-Close N. of pier, head.	36° 51.9´ N 35° 56.7´ E	**F.R.**	33 **10**	3	Mast.	
20804 *N 5912.5*	Toros Gubre, W. pier, head.	36° 54.4´ N 35° 59.0´ E	**Fl.W.** period 5s fl. 1s, ec. 4s	33 **10**	5	White framework tower, black band; 20.	
20805 *N 5912.6*	-E. pier, head.	36° 54.4´ 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 *N 5913*	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 bands.	
20812 *N 5913.02*	-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 bands.	
20812.5 *N 5913.5*	-Yesilkoy.	36° 50.1´ N 36° 09.9´ E	**Fl.(3)Y.** period 10s		5		
20812.6 *N 5913.8*	-Yakacik.	36° 47.0´ N 36° 12.0´ E	**Fl.(2)W.** period 5s	20 **6**	5		
20812.7 *N 5913.85*	--Pier, head.	36° 46.8´ N 36° 11.4´ E	**Fl.Y.** period 3s	20 **6**	3		
20813 *N 5914*	-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.	**AIS** (MMSI No 992711227).
20813.5 *N 5914.4*	-N. Mole.	36° 43.6´ N 36° 11.2´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	33 **10**	9	White concrete tower; 26.	**AIS** (MMSI No 992711226).
20813.6 *N 5914.1*	-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 *N 5914.2*	--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 *N 5914.65*	-Pirs Ekindzhiler.	36° 41.2´ N 36° 11.6´ 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 *N 5914.66*	-Assan, jetty, head.	36° 41.0´ N 36° 11.7´ E	**Fl.(4)G.** period 15s	20 **6**	5		
20813.9 *N 5914.67*	-Yazici, jetty, head.	36° 40.8´ N 36° 11.7´ E	**Fl.(3)G.** period 6.1s fl. 0.4s, ec. 1s fl. 0.4s, ec. 1s fl. 0.4s, ec. 2.9s	33 **10**	3	Green framework tower, three white bands; 23.	
20814 *N 5914.7*	-Iskenderun Gubre Fab.	36° 39.9´ N 36° 12.2´ E	**Fl.(4)G.** period 10s	49 **15**	3	Mast on dolphin.	
20816 *N 5916*	**-Roadstead,** W. point.	36° 32.3´ N 36° 03.1´ E	**Fl.W.** period 3s fl. 1s, ec. 2s	148 **45**	**20**	White concrete tower; 33.	Visible 044°-234°. **AIS** (MMSI No 992711231).
20817 *N 5914.9*	-Kurtulus, jetty, head.	36° 37.3´ N 36° 11.7´ E	**Fl.G.** period 4s	26 **8**	5	Metal tower; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			TURKEY-SOUTH COAST				
20820 *N 5915*	-Iskenderun Limani, W. breakwater, head.	36° 36.2´ N 36° 11.2´ E	**Oc.G.** period 3s lt. 2s, ec. 1s	43 **13**	6	White concrete tower; 33.	**AIS** (MMSI No 992711230).
20822 *N 5915.1*	--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.	**AIS** (MMSI No 992711232).
20824 *N 5915.22*	--Inner Harbor, E. breakwater, head.	36° 35.7´ N 36° 11.1´ E	**Oc.R.** period 3s lt. 2s, ec. 1s	30 **9**	4	White metal mast; 20.	
20824.5 *N 5915.02*	---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 *N 5915.4*	--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.	**AIS** (MMSI No 992711229).
20826 *N 5915.5*	---S. breakwater.	36° 35.7´ N 36° 10.7´ E	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s	26 **8**	3	Concrete tower; 20.	**AIS** (MMSI No 992711228).
20827 *N 5915.6*	--W. jetty, head.	36° 35.6´ N 36° 10.4´ E	**Fl.(2)Y.** period 6s	33 **10**	5		
20832 *N 5917*	**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, building; 16.	**AIS** (MMSI No 992711225).

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 *N 5908*	**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 *N 5908.6*	Port entrance.	34° 45.2´ N 32° 24.5´ E	**Q.R.**	16 **5**	4		
20852 *N 5876.4*	-Akrotiri AVIATION LIGHT.	34° 35.3´ N 32° 59.5´ E	**Mo.(AK)R.**	121 **37**		Beacon.	Difficult to identify.
20856 *N 5876*	**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 189°-130°.
20860 *N 5876.2*	Akrotiri, breakwater, head.	34° 34.3´ N 33° 02.0´ E	**Fl.R.** period 10s	36 **11**	5	Framework tower.	
20864 *N 5876.3*	-Harbor entrance, W. side.	34° 34.3´ N 33° 01.9´ E	**Fl.G.** period 10s	36 **11**	3	Framework tower.	
20868 *N 5876.6*	-Ro Ro Berth, NE. dolphin.	34° 34.3´ N 33° 02.1´ E	**Fl.(2)R.** period 10s fl. 0.7s, ec. 1.3s fl. 0.7s, ec. 7.3s	30 **9**	3	Dolphin; 33.	
20872 *N 5876.8*	--SW. dolphin.	34° 34.3´ N 33° 02.1´ E	**Fl.R.** period 10s fl. 0.7s, ec. 9.3s	23 **7**	3	Dolphin; 26.	
20876 *N 5880*	Limassol, NW. corner of S. quay.	34° 40.1´ N 33° 02.5´ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s		3		
20880 *N 5880.2*	-W. breakwater, head.	34° 40.2´ N 33° 02.5´ E	**Fl.R.** period 3s		3		
20882 *N 5880.7*	Pyrgos Marina.	34° 42.5´ N 33° 10.1´ E	**Fl.(2)W.** period 10s	30 **9**	10	Metal mast; 13.	
	LIMASSOL:						
20884 *N 5877.4*	-New port, N. breakwater, head.	34° 39.1´ N 33° 01.5´ E	**Oc.G.** period 7s	43 **13**	10	Metal column; 30.	
20888 *N 5877*	--S. breakwater, head.	34° 39.0´ N 33° 02.0´ E	**Q.(6)R.** period 10s	30 **9**	12	Metal post; 30.	
20892 *N 5878*	-Range, front.	34° 38.6´ N 33° 00.5´ E	**F.G.**	19 **6**	2	Metal framework tower, orange diamond daymark.	
20896 *N 5878.1*	--Rear, 380 meters 248° from front.	34° 38.6´ N 33° 00.3´ E	**Oc.G.** period 5s lt. 4s, ec. 1s	39 **12**	2	Metal framework tower, orange diamond daymark.	
20901 *N 5881.1*	-S. breakwater, head.	34° 42.9´ N 33° 19.1´ E	**Fl.R.** period 5s				
20901.5 *N 5881.2*	-N. breakwater, head.	34° 43.0´ N 33° 19.1´ E	**Oc.G.** period 5s				
20904 *N 5882*	Cape Kiti, near extremity.	34° 49.0´ 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 stone tower.	
20908 *N 5882.5*	-Fishing harbor, E. breakwater.	34° 54.0´ N 33° 38.4´ 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 *N 5882.6*	--W. breakwater.	34° 54.0´ N 33° 38.4´ E	**Fl.(2)G.** period 10s		4	Beacon.	
	LARNACA:						
20916 *N 5884*	-Main harbor, S. breakwater, head.	34° 55.6´ N 33° 38.9´ E	**Fl.W.R.** period 5s fl. 0.5s, ec. 4.5s	26 **8**	W. 10 R. 5		R. 075°-270°, W.-005°.
20920 *N 5884.4*	--N. breakwater, head.	34° 55.7´ N 33° 38.7´ E	**F.G.**	16 **5**	3		
20924 *N 5883.1*	-Yacht Harbor.	34° 55.1´ N 33° 38.6´ E	**F.R.**	20 **6**	1	Orange mast.	
20928 *N 5883.6*	--N. pier.	34° 55.0´ N 33° 38.0´ E	**F.G.**	10 **3**	1	Metal post.	
20940 *N 5888*	Cape Greco.	34° 57.5´ N 34° 05.1´ E	**Fl.W.** period 15s fl. 1.5s, ec. 13.5s	52 **16**	12	White stone tower; 49.	
	FAMAGUSTA:						
20944 *N 5892*	**-SE. Bastion.**	35° 07.4´ N 33° 56.8´ E	**Fl.(2)W.** period 15s	75 **23**	**16**	Stone tower; 36.	Visible 150°-290°.
20948 *N 5893*	-NW. of town.	35° 08.5´ N 33° 55.6´ E	**Fl.W.R.** period 7s fl. 0.8s, ec. 6.2s	60 **18**	W. **15** R. 11	White concrete tower, black stripes; 36.	W. 178°-216°, R.-313°.
20952 *N 5894*	-Outer breakwater, head.	35° 08.1´ N 33° 56.6´ E	**Fl.(4)R.** period 5s	33 **10**	4	White metal framework tower, concrete base; 20.	
20956 *N 5895*	-Inshore breakwater, head.	35° 08.0´ N 33° 56.5´ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	32 **10**	4	White metal framework tower, concrete base; 20.	
20960 *N 5896*	-E. mole, head.	35° 07.8´ N 33° 56.7´ E	**Q.R.**	30 **9**	2	Black metal column; 26.	
20961 *N 5897*	-Boghaz, Fisherman's shelter.	35° 18.8´ N 33° 57.3´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	30 **9**	4	White round tower, red top; 10.	
20965 *N 5898*	Cape Elea.	35° 19.8´ N 34° 03.0´ E	**Fl.W.** period 10s fl. 1s, ec. 9s	102 **31**	5	White concrete tower, black bands; 36.	
20968 *N 5900*	Klidhes Islands, Cape Andreas, off head.	35° 42.5´ N 34° 36.3´ 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 **20**	14	White metal tower; 33.	
	RACON		**Z(– – • •)**				
20970 *N 5901*	**Yeni Erenkoy,** fishing harbor.	35° 33.6´ N 34° 12.6´ E	**Fl.(2)W.** period 15s	72 **22**	**15**	White concrete tower; 10.	
20971 *N 5901.6*	**Kyrenia.**	35° 20.4´ N 33° 19.8´ E	**Fl.(3)W.** period 20s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 13.5s	59 **18**	**20**	White metal framework structure; 23.	
20972 *N 5902*	-Marina breakwater.	35° 20.6´ N 33° 19.5´ E	**Fl.G.** period 5s	33 **10**	4	White metal framework tower; 26.	
20973 *N 5902.6*	-Ferry harbor, N. breakwater, head.	35° 20.5´ N 33° 20.3´ E	**Fl.G.** period 3s	39 **12**	4	White concrete tower; 26.	
20973.5 *N 5902.4*	--S. breakwater, head.	35° 20.5´ N 33° 20.1´ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	39 **12**	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 *N 5904*	**Cape Kormakiti.**	35° 24.2′ N 32° 55.2′ E	**Fl.(2)W.** period 20s fl. 1s, ec. 2s fl. 1s, ec. 16s	100 **30**	**15**	White metal framework tower; 72.	
	KARAVOSTASI:						
20980 *N 5906*	-Xeros Pier, root.	35° 08.5′ N 32° 50.3′ E	**Fl.R.** period 3s fl. 0.2s, ec. 2.8s	62 **19**	7	Gray metal tripod, building; 23.	
20984 *N 5907*	-W. pier, head.	35° 09.0′ N 32° 49.0′ E	**Fl.W.** period 5s	60 **18**	5		
20985 *N 5907.5*	Moulia Rocks.	34° 43.4′ N 32° 26.1′ E	**Fl.(2)W.** period 10s	20 **6**	6		
20986 *N 5907.6*	**Cape Akamas.**	35° 05.5′ N 32° 16.9′ E	**Fl.(2)W.** period 15s	692 **211**	**17**	Post; 10.	
			SYRIA				
20988 *N 5919*	Ra's al Basit.	35° 51.1′ N 35° 48.3′ E	**Fl.W.** period 4s fl. 1s, ec. 3s	246 **75**	14	White tower; 39.	
20992 *N 5919.4*	Ra's al Fasuri.	35° 40.4′ N 35° 46.4′ E	**Q.(3)W.** period 5s	243 **74**	5	White tower, black bands.	
20996 *N 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 *N 5921.6*	Al Ladhiqiyah, breakwater, head.	35° 31.9′ N 35° 45.3′ E	**L.Fl.G.** period 4s	13 **4**	5	Green pylon.	
21005 *N 5921.5*	-Range, front.	35° 31.8′ N 35° 46.1′ E	**Fl.(2)R.** period 5s		6		
21005.1 *N 5921.51*	--Rear, 115°36′ from front.	35° 31.7′ N 35° 46.4′ E	**Fl.(2)R.** period 5s		6		
21006 *N 5921.4*	-El Burj.	35° 30.9′ N 35° 46.1′ E	**Fl.(2)W.** period 9s	72 **22**	10	White tower; 16.	
21007 *N 5921.71*	-Marina, S. breakwater, head.	35° 32.5′ N 35° 45.7′ E	**Fl.G.** period 5s				
21007.1 *N 5921.7*	--N. breakwater, head.	35° 32.5′ N 35° 45.8′ E	**Fl.R.** period 3s				
	JABLAH (DJEBLE):						
21012 *N 5922*	-W. breakwater, head.	35° 21.6′ N 35° 55.0′ E	**Q.G.**	23 **7**	4	Black pylon.	Fishing light.
21016 *N 5922.2*	-E. breakwater, head.	35° 21.6′ N 35° 55.1′ E	**Q.R.**	20 **6**	5	Black pylon.	Fishing light.
	BANIYAS:						
21020 *N 5923*	-Boat harbor, W. breakwater, head.	35° 13.4′ N 35° 56.7′ E	**Fl.W.** period 5s	19 **6**	4	Black pylon.	
21024 *N 5923.2*	--E. breakwater, head.	35° 13.4′ N 35° 56.8′ 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 *N 5923.5*	**Baniyas.**	35° 08.8´ N 35° 55.3´ 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 *N 5923.7*	-W. breakwater, head.	34° 54.6´ N 35° 51.3´ E	**Fl.G.** period 4s			Green tower, white bands.	
21040 *N 5923.8*	-E. breakwater, head.	34° 54.6´ N 35° 51.6´ E	**Fl.R.** period 4s	23 **7**	5	Black metal framework tower.	
21044 *N 5924*	Jazirat Arwad.	34° 51.4´ N 35° 51.4´ E	**Fl.W.** period 5s fl. 1s, ec. 4s	66 **20**	12	White tower, fort; 13.	
21045 *N 5924.2*	-E. jetty, head.	34° 51.4´ N 35° 51.7´ E	**Q.G.**	10 **3**	1	Black pylon.	
21045.5 *N 5924.3*	-S. jetty, head.	34° 51.4´ N 35° 51.7´ E	**Q.R.**	10 **3**	1	Black pylon.	
			LEBANON				
	TARABULUS (TRIPOLI):						
21048 *N 5926*	**-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 *N 5927*	--NE. head.	34° 28.3´ N 35° 49.9´ E	**Fl.G.** period 4.5s fl. 0.3s, ec. 4.2s	33 **10**	5		
21054 *N 5927.2*	--E. breakwater, head.	34° 28.0´ N 35° 50.0´ E	**Fl.R.**				
21060 *N 5927.6*	-Tower of Lions.	34° 27.0´ N 35° 49.8´ E	**F.R.**		3	Tower; 69.	Occasional.
21064 *N 5929*	Kalmoun.	34° 23.2´ N 35° 47.1´ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	16 **5**	3	White pylon, black bands.	
21068 *N 5929.2*	Anfan.	34° 21.6´ N 35° 44.0´ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	16 **5**	3	White pylon, black bands.	
21072 *N 5929.4*	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	White pylon, black bands.	
21076 *N 5929.6*	Al Batrun.	34° 15.1´ N 35° 39.5´ E	**Fl.G.** period 2s fl. 0.3s, ec. 1.7s	16 **5**	3	White pylon, black bands.	
21080 *N 5929.8*	Fad'us.	34° 14.3´ N 35° 39.4´ E	**Fl.R.** period 2s fl. 0.3s, ec. 1.7s	23 **7**	3	White pylon, black bands.	
21084 *N 5930*	Ra's Amshit.	34° 09.1´ N 35° 37.6´ E	**Fl.W.** period 2s fl. 0.3s, ec. 1.7s	20 **6**	3	White pylon, black bands.	
21088 *N 5931.2*	Jubayl, E. side of entrance.	34° 06.4´ N 35° 38.9´ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	23 **7**	5	Pylon.	A light, Fl.R. 3s, is shown from side of old wall.
21092 *N 5932*	Tabarja.	34° 01.7´ N 35° 37.4´ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	33 **10**	5	White tower, black bands.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LEBANON				
	PORT DE JOUNI'E:						
21094 *N 5933*	-Yacht Basin, mole, head.	33° 59.2′ N 35° 37.4′ E	**Fl.(2)G.** period 3s fl. 0.4s, ec. 0.6s fl. 0.4s, ec. 1.6s	33 **10**	8	White pylon, black bands.	
21096 *N 5933.1*	--Quay at entrance.	33° 59.2′ N 35° 37.4′ E	**Fl.R.** period 3s fl. 0.4s, ec. 2.6s	26 **8**	5	White pylon, black bands.	
21104 *N 5933.3*	-Naval basin, jetty, head.	33° 59.2′ N 35° 37.6′ E	**Fl.G.** period 3s fl. 0.4s, ec. 2.6s	33 **10**	8	White pylon, black bands.	
21116 *N 5934*	**-Ra's Bayrut.**	33° 54.0′ N 35° 28.2′ E	**Fl.(2)W.** period 10s fl. 0.1s, ec. 2.4s fl. 0.1s, ec. 7.4s	171 **52**	**22**	Stone tower, metallic dome; 89.	F.R., F.W. lights on radio mast 0.6 miles ENE.
	BAYRUT (BEIRUT):						
21120 *N 5935*	-N. mole.	33° 54.6′ N 35° 31.5′ E	**Fl.G.** period 5s fl. 0.5s, ec. 4.5s	46 **14**	8	White pylon, black bands.	
21121 *N 5935.5*	--NE end.	33° 54.9′ N 35° 32.0′ E	**Fl.(2)G.**			Metal tower.	
21122 *N 5935.8*	-Breakwater, W. head.	33° 54.7′ N 35° 32.0′ E	**Fl.(3)R.** period 3s			Red metal tower.	
21122.2 *N 5935.9*	--Elbow.	33° 54.7′ N 35° 32.1′ E	**Mo.(D)Y.**			Metal tower.	
21122.4 *N 5935.95*	--E. head.	33° 54.7′ N 35° 32.3′ E	**Fl.G.** period 2s			Green metal tower.	
21128 *N 5938.1*	-Airport AVIATION LIGHT.	33° 49.4′ N 35° 29.3′ E	**Mo.(BL)G.** period 12s	141 **43**	**17**	Hangar.	
21132 *N 5938*	--AVIATION LIGHT.	33° 49.4′ N 35° 29.3′ E	**Al.Fl.W.G.** period 4s	138 **42**	**17**	Control tower.	
	SAYDA (SIDON):						
21140 *N 5940*	-Az Zirah.	33° 34.3′ N 35° 22.1′ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	33 **10**	6	White pylon; 13.	
21148 *N 5940.5*	-Port entrance, S. side.	33° 34.1′ N 35° 22.2′ E	**Lit**				
	AZ ZAHRANI:						
21152 *N 5941*	-Oil Terminal.	33° 30.0′ N 35° 20.6′ E	**Fl.R.** period 2s	184 **56**		Red and white pylon.	F.R. lights shown 14 and 27 meters below this light on same structure.
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 *N 5941.8*	As Sarafand.	33° 26.1´ N 35° 15.7´ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	16 **5**	3	White pylon, black bands.	
	SUR (TYRE):						
21192 *N 5942*	-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 *N 5943.2*	-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 *N 5943*	-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 *N 5943.7*	Tekhelet Island.	33° 04.8´ N 35° 05.7´ E	**Fl.R.** period 10s		2	White pillar.	
21204 *N 5944*	Akko (Acre), S. of town.	32° 55.2´ N 35° 04.0´ E	**Fl.(2)W.** period 7s	51 **16**	10	Black and white checkered tower; 33.	
21208 *N 5944.2*	-Akko Harbor, breakwater, head.	32° 55.2´ N 35° 04.2´ E	**Q.(3)R.** period 5s		1	Red tower, white bands, gallery.	
21209 *N 5944.3*	--Manara Rock.	32° 55.1´ N 35° 04.3´ E	**Q.(3)G.** period 5s		3	Green tower, white bands, gallery.	
21212 *N 5945*	**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, building; 66.	Visible 289°-263°. Partially obscured 235°-236°.
	HAIFA:						
21217 *N 5946.05*	-Main breakwater, middle.	32° 49.6´ N 35° 00.7´ E	**Fl.(3)W.** period 10s	36 **11**		Green metal pole, concrete base; 16.	
21218 *N 5946.1*	--Elbow.	32° 49.5´ N 35° 00.5´ E	**Iso.W.** period 5s	36 **11**		Green metal pole, concrete base; 23.	2 Q.G. lights mark dolphins 485 meters and 765 meters W.
21220 *N 5947*	-Lee breakwater, head.	32° 49.4´ N 35° 00.6´ E	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s	46 **14**	5	White concrete tower; 30.	
21221 *N 5949.3*	-Karmel Container Terminal, Basin.	32° 48.9´ N 35° 00.8´ E	**Q.Bu.**	36 **11**		Green metal pole, concrete base; 23.	
21221.4 *N 5949*	--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 *N 5949.5*	--E. corner.	32° 49.3´ N 35° 00.9´ E	**Fl.(3)G.** period 10s	20 **6**		Green and white metal pole; 10.	
21228 *N 5952*	--N. breakwater, head.	32° 49.0´ N 35° 01.4´ E	**Q.(2)R.** period 5s	33 **10**	6	Gray metal framework tower.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			ISRAEL				
	-Qishon (Kishon):						
21232 *N 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 *N 5952.5*	---NE.	32° 49.0´ N 35° 01.4´ E	**Fl.G.**	10 **3**	1	White metal post; 10.	
21233 *N 5953.1*	--RoRo pier.	32° 48.5´ N 35° 01.7´ E	**Q.G.**			Blue post.	
21234 *N 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 *N 5954.5*	-W. breakwater, head.	32° 28.4´ N 34° 52.8´ E	**Fl.G.** period 2s	30 **9**	3		
21234.4 *N 5954.6*	-E. breakwater, head.	32° 28.4´ N 34° 52.8´ E	**Fl.R.** period 5s	30 **9**	2		
21236 *N 5956*	Mikhmoret, at Nautical School.	32° 24.2´ N 34° 52.0´ E	**Al.Fl.W.R.** period 15s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 9.5s	46 **14**	10	Concrete building.	
21238 *N 5957*	Herzlia Marina, breakwater.	32° 09.9´ N 34° 47.6´ E	**Fl.G.** period 5s	49 **15**	12		Fl.R. 5s marks lee breakwater.
	TEL AVIV:						
21240 *N 5958.4*	-Power station, breakwater.	32° 06.5´ N 34° 46.4´ E	**Fl.(2)R.** period 5s fl. 0.4s, ec. 1s fl. 0.4s, ec. 3.2s	29 **9**	2	White metal column; 13.	
21252 *N 5959.4*	-Marina, breakwater.	32° 05.3´ N 34° 46.0´ E	**Fl.(5)G.** period 20s	33 **10**		Red pole, white bands.	
	JAFFA:						
21256 *N 5963*	-Breakwater, head.	32° 03.3´ N 34° 45.0´ E	**Fl.G.** period 4s fl. 0.5s, ec. 3.5s		7		
21257 *N 5962.4*	-Range, front.	32° 03.3´ N 34° 45.1´ E	**F.R.**				Occasional.
21258 *N 5962.5*	--Rear, 129° from front.	32° 03.3´ N 34° 45.1´ E	**F.R.**				Occasional.
21259 *N 5964*	-Sela Andromeda, SE.	32° 03.4´ N 34° 45.1´ E	**Q.Y.**		2	Orange pillar.	
21259.5 *N 5965*	Kefar HaNagid AVIATION LIGHT.	31° 53.6´ N 34° 45.4´ E	**Fl.R.** period 1.5s	614 **187**		Radio mast; 384.	
			2 F.R.				
21260 *N 5967*	**Ashdod.**	31° 48.8´ N 34° 38.8´ E	**Fl.(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**	Red and white checkered concrete tower; 138.	
21264 *N 5968*	-Main breakwater.	31° 50.6´ N 34° 38.3´ E	**Fl.G.** period 2s		7		
21268 *N 5969*	-Lee breakwater.	31° 49.9´ N 34° 38.4´ E	**Fl.R.** period 2s		7		
21269 *N 5969.5*	-Central jetty.	31° 50.6´ N 34° 39.1´ E	**Fl.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 *N 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 *N 5970.5*	-Marina, outer breakwater.	31° 41.1′ N 34° 33.4′ E	**Fl.(2)G.** period 5s		7	White round column.	
21272.15 *N 5970.6*	- -Inner breakwater.	31° 41.0′ N 34° 33.4′ E	**Fl.R.**			White round column.	
21272.2 *N 5971*	-Harbor, outer breakwater.	31° 38.4′ N 34° 31.2′ E	**Fl.(2)G.** period 6s		4		
21272.3 *N 5971.1*	- -Inner breakwater.	31° 38.4′ N 34° 31.3′ E	**Fl.(2)R.** period 10s				
21272.35 *N 5971.15*	- - -S. end.	31° 38.3′ N 34° 31.3′ E	**Fl.R.** period 4s				
21272.4 *N 5971.3*	- -S. breakwater.	31° 38.2′ N 34° 31.3′ E	**Fl.G.** period 4s				
21272.5 *N 5971.5*	-Coal Jetty, head.	31° 38.1′ N 34° 29.6′ E	**F.R.**				
21273 *N 7700*	Mari-B.	31° 44.1′ N 34° 17.8′ E	**Mo.(U)W.**		10	Platform.	**Horn:** Mo.(U).
			EGYPT				
21274 *N 5973*	**El Arish.**	31° 09.0′ N 33° 50.0′ E	**Fl.W.** period 5s	128 **39**	**18**	White concrete tower, black bands.	
	RACON		**G(– – •)**				(3 & 10cm).
	BUR SA'ID (PORT SAID):						
21276 *N 5978.2*	**-Port Said.**	31° 16.4′ N 32° 17.5′ E	**Fl.W.** period 10s	154 **47**	**20**	Framework tower, white daymark.	**Radiobeacon.** **DGPS Station.**
	-RACON		**TS(– • • •)**				(3 & 10cm).
21284 *N 5980*	-Entrance Range, front.	31° 15.0′ N 32° 18.2′ E	**F.R.**	118 **36**	6	Gray metal framework tower, triangular daymark point up; 131.	Visible 207°-229°.
			Aero F.R.				
21288 *N 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, round daymark; 177.	Visible 207°-229°.
			Aero F.R.				
21292 *N 5979*	-E. breakwater, head.	31° 16.5′ N 32° 19.8′ E	**Oc.R.** period 6s			Metal framework tower.	
21292.5 *N 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.	**Horn:** 1 bl. ev. 2s.
	SUEZ CANAL:						
	The Suez Canal is marked by articulated beacons.						
21293 *N 5983*	-Breakwater, E. side.	31° 15.0′ N 32° 21.6′ E	**F.W.**			Red metal tower, white bands.	

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(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			EGYPT				
21294 *N 5983.2*	--W. side.	31° 14.6′ N 32° 20.5′ E	**F.W.**			Green metal tower, white bands.	
21300 *N 5985*	-Bur Sa'id Bypass, E. side.	31° 13.4′ N 32° 20.8′ E	**Fl.(2)R.** period 10s	82 **25**		Gray metal tower, black top; 33.	
21304 *N 5985.2*	--W. side.	31° 13.5′ N 32° 20.5′ E	**Fl.(2)G.** period 10s	82 **25**		Gray metal tower, black band, lantern; 131.	
	MASABB DUMYAT:						
21308 *N 6156*	**-Dumyat (Damietta).**	31° 31.4′ N 31° 50.8′ E	**Fl.(2)W.** period 30s	154 **47**	**20**	Framework tower, white dwelling, white daymark.	**Radiobeacon.**
	-RACON		**DA(– • • • –)**		**20**		(3 & 10cm).
21312 *N 6158*	--W. side of entrance.	31° 31.7′ N 31° 50.6′ E	**Fl.G.** period 10s	46 **14**	8	Green concrete tower; 33.	
21316 *N 6158.5*	-El Ghirby.	31° 30.2′ N 31° 50.0′ E	**Fl.G.** period 3s	12 **4**	5	White pyramidal tower, black bands, concrete base; 13.	
21317 *N 6159*	Damietta Port Range, front.	31° 27.7′ N 31° 45.1′ E	**F.R.**	108 **33**	10	Round metal tower, rectangular daymark.	
21317.1 *N 6159.1*	-Rear, 170 meters 191°30′ from front.	31° 27.6′ N 31° 45.1′ E	**F.R.**	135 **41**	10	Metal framework tower, rectangular daymark.	
21318 *N 6159.3*	-W. breakwater.	31° 29.6′ N 31° 45.4′ E	**Fl.G.** period 5s	33 **10**	6	Green metal tower; 33.	
21318.5 *N 6159.4*	-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**	6	Red metal tower; 33.	
21319 *N 6159.6*	--No 37.	31° 28.1′ N 31° 45.7′ E	**Fl.Bu.** period 2.5s fl. 0.5s, ec. 2s		7	Tower; 10.	
21320 *N 6162*	**Burullus.**	31° 35.9′ N 31° 04.9′ E	**Fl.(3)W.** period 20s	154 **47**	**20**	Framework tower, white dwelling, white daymark.	**Radiobeacon.**
	RACON		**BR(– • • • • – •)**				
21322	Rashid Gas Platform RACON.	31° 50.8′ N 30° 38.1′ E	**G(– – •)**				(3 & 10cm).
21324 *N 6166*	**Raschid (Rosetta).**	31° 26.6′ N 30° 25.9′ 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**	**20**	Framework tower, white dwelling, white daymark.	Aeromarine light. **Radiobeacon.**
	RACON		**TA(– • –)**				(3 & 10cm).
21325 *N 6167*	Idku LNG Port, detached breakwater, NE.	31° 22.5′ N 30° 17.7′ E	**Q.G.**	36 **11**	5	STARBOARD (A) G, post, topmark.	
21325.1 *N 6167.1*	-Detached breakwater, SW.	31° 22.1′ N 30° 17.5′ E	**Q.(6)+L.Fl.W.** period 15s	36 **11**	4	S. CARDINAL YB, post, topmark.	
21326 *N 7761*	-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 & 10cm).
21328 *N 6168*	Geziret Disuqi, summit.	31° 21.5′ N 30° 06.3′ E	**Fl.W.** period 5s	72 **22**	12	White metal mast, red top; 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 *N 6168.2*	Abu Qir, breakwater, head.	31° 19.9′ N 30° 05.0′ E	**Oc.W.** period 3s lt. 2s, ec. 1s	56 **17**	5		
21331 *N 6168.3*	-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 *N 6168.31*	--Rear, 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 *N 6168.4*	-S. building.	31° 17.7′ N 30° 04.6′ E	**Fl.R.** period 2s	85 **26**	2	Column.	
21331.7 *N 6168.75*	El-Ma'addiya Port.	31° 16.2′ N 30° 08.4′ E	**Fl.(2)Y.** period 5s	13 **4**	3	Beacon.	
	AL ISKANDARIYAH (ALEXANDRIA):						
21332 *N 6171*	-Eastern Harbor, W. breakwater, head.	31° 12.9′ N 29° 53.5′ E	**Fl.G.** period 5s	69 **21**	8	Green metal mast; 33.	
21336 *N 6170*	--Al Silsila breakwater, W. head.	31° 12.9′ N 29° 53.7′ E	**Fl.R.** period 5s	46 **14**	5	Red concrete tower; 20.	
21340 *N 6171.4*	-Qaitbai Fort.	31° 12.8′ N 29° 53.1′ E	**F.Y.**				
21344 *N 6173*	**-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 round tower, black bands; 180.	F.R. 27m on radio masts 0.2 and 0.3 mile NE. Storm signals.
	-RACON		**X(– • • –)**				(3 & 10cm).
21356 *N 6176*	-Great Pass, entrance Range, front.	31° 09.3′ N 29° 50.8′ E	**2 F.R.** (vert.)	58 **18**	5	White round tower, red stripe; 66.	10 meters apart. Visible 050°-150°. **DGPS Station.**
			F.W.	43 **13**			Visible 150°-050°.
21360 *N 6176.1*	--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.	9 meters apart. Visible 095°30′-169°30′.
21370 *N 6174*	**-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(– –)**		**25**		(3 & 10cm).
21376 *N 6176.5*	--N. shoal, beacon.	31° 10.0′ N 29° 49.2′ E	**Fl.R.** period 5s		5	Red square metal tower, white bands; 23.	
21380 *N 6180*	-Outer Harbor, outer breakwater, head.	31° 09.9′ N 29° 50.8′ E	**Fl.R.** period 3s	66 **20**	8	Red metal framework tower, white stripes.	
21384 *N 6182*	--Quarantine breakwater, head.	31° 09.9′ N 29° 51.1′ E	**Fl.G.** period 3s	66 **20**	8	Green metal framework tower, white stripe.	
21388 *N 6183*	--Petroleum harbor, W. head.	31° 10.0′ N 29° 51.2′ E	**Fl.G.** period 5s	18 **5**	2		
21390 *N 6183.3*	---E. head.	31° 10.0′ N 29° 51.3′ E	**Fl.R.** period 5s	16 **5**	2		
21400 *N 6186.5*	-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 *N 6189*	--Arsenal Basin, W. mole, head.	31° 11.8′ N 29° 52.6′ E	**Fl.R.** period 3s	59 **18**		White and red metal framework tower.	

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(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			EGYPT				
21412 *N 6190*	---Arsenal Quay.	31° 11.8′ N 29° 52.7′ E	**Fl.G.**				
21412.5 *N 6173.5*	**-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 & 10cm).
21413 *N 6191*	-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 *N 6191.1*	--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 *N 6191.2*	--Breakwater, head.	31° 09.3′ N 29° 48.3′ E	**Fl.W.**	30 **9**	5		
21414 *N 6191.3*	--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 *N 6179*	-Al Dukhaylah AVIATION LIGHT.	31° 07.7′ N 29° 48.1′ E	**Al.Fl.W.G.**	30 **9**			
21418 *N 6193*	**Ra's el Shaqiq.**	30° 57.2′ N 28° 49.7′ E	**Fl.(3)W.** period 15s	154 **47**	**20**	Framework tower, white daymark.	**Radiobeacon.**
	RACON		**Q(– – • –)**				(3 & 10cm).
21420 *N 6194*	Ra's Alam ar Rum.	31° 21.8′ N 27° 20.5′ E	**Fl.W.** period 5s	157 **48**	12	White metal mast, red band; 33.	
	RACON		**Z(– – • •)**				(3 & 10cm).
21422 *N 6198*	-Mersa Matruh, entrance, W. side.	31° 22.2′ N 27° 13.7′ E	**Q.G.**	20 **6**	5	Green round fiberglass tower.	
21422.1 *N 6198.1*	--E. side.	31° 22.1′ N 27° 13.8′ E	**Q.R.**	20 **6**	5	Red round fiberglass tower.	
21424 *E 6204*	Sidi Barrani (Ras Haleima).	31° 37.4′ N 25° 54.3′ E	**Fl.(2)W.** period 15s	66 **20**	12	White steel post, red top, concrete base; 33.	
	RACON		**K(– • –)**				
21428 *E 6206*	As Sallum, pier, head.	31° 33.6′ N 25° 09.9′ E	**Fl.(3)W.** period 20s	46 **14**	12	White steel post, black top, concrete base; 33.	
	RACON		**M(– –)**				

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			LIBYA				
21432 *N 6210*	Bardiyah (Bardia).	31° 45.0′ N 25° 06.2′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	322 **98**	12	Metal framework tower, black and white concrete base.	
21436 *N 6214*	Ra's Azzaz, on point.	31° 57.8′ N 24° 58.8′ E	**Fl.W.** period 3s	52 **16**	10	White framework tower; 36.	
	MARSA TUBRUQ (TOBRUK):						
21440 *N 6221*	-On the point.	32° 04.3′ N 24° 00.5′ E	**Fl.G.** period 5s fl. 1s, ec. 4s	20 **6**	6	White pyramidal tower, black stripes; 16.	
21444 *N 6224*	-Range, front.	32° 03.2′ N 24° 00.8′ E	**Q.W.**	69 **21**	7	Metal framework tower, white diamond daymark.	Occasional.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LIBYA				
21448 *N 6224.1*	--Rear, 314 meters 224°48′ from front.	32° 03.0′ N 24° 00.6′ E	**Iso.W.** period 2s	85 **26**	7	Metal framework tower, white diamond daymark.	Occasional.
21450 *N 6226*	-Marsa El Hariga, oil terminal, E. end.	32° 03.6′ N 24° 00.1′ E	**F.R.**	30 **9**	2	Dolphin.	
21450.1 *N 6226.2*	--Berth No 2, E. end.	32° 03.6′ N 24° 00.0′ E	**2 F.G.** (vert.)	33 **10**	2		2 meters apart.
21450.2 *N 6226.4*	---W. end.	32° 03.6′ N 24° 00.0′ E	**2 F.G.** (vert.)	33 **10**	2		2 meters apart.
21451 *N 6227*	--T-head pier, center.	32° 03.9′ N 23° 59.2′ E	**2 F.G.**		2		2 F.R. mark E. and W. ends of jetty head.
21452 *N 6220*	-Main light.	32° 05.2′ N 23° 59.2′ 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, black and white checkered building.	
21456 *N 6228*	-Quay No 4, extension.	32° 04.5′ N 23° 58.8′ E	**Q.R.**				
21464 *N 6230*	-Quay No 1, W. end.	32° 04.7′ N 23° 58.4′ E	**Oc.R.G.** period 15s lt. 10s, ec. 5s				G. 301°-026°, R.-181°.
21468 *N 6234*	Ra's at Tin.	32° 37.7′ N 23° 06.8′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	110 **34**	10	Black metal framework tower; 23.	
	DARNAH (DERNA):						
21472 *N 6236*	**-Derna.**	32° 44.5′ N 22° 40.6′ 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; 39.	
21476 *N 6239*	-N. mole, head.	32° 45.8′ N 22° 39.6′ E	**Q.G.**	46 **14**	8		
21480 *N 6238*	-S. mole, head.	32° 45.9′ N 22° 39.7′ E	**Q.R.**	46 **14**	8		
21484 *N 6242*	Ra's al Hilal.	32° 55.3′ N 22° 10.8′ 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 *N 6244*	Apollonia.	32° 54.1′ N 21° 58.0′ E	**Fl.W.** period 6s fl. 1s, ec. 5s	82 **25**	11	White concrete tower; 23.	
21492 *N 6246*	Ra's Amir.	32° 56.3′ N 21° 42.4′ E	**Fl.(2)W.** period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	95 **29**	11	White concrete tower, black bands; 36.	
21496 *N 6248*	Tulmaythah, summit of point.	32° 43.0′ N 20° 56.5′ 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, black bands, white concrete base; 52.	Reserve light of low power, F.W., F.R. and Fl.R. lights on radio tower exist 20M. SW.
21500 *N 6250*	Sidi Suwaykir.	32° 19.7′ N 20° 17.5′ 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 *N 6251.5*	-Ras el Mingar, jetty extension.	32° 11.1′ N 20° 05.3′ E	**Fl.W.** period 3s	42 **13**	5	Dolphin.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LIBYA				
21508 *N 6251.8*	**Banghazi.**	32° 07.5′ N 20° 03.8′ E	**Fl.W.** period 3s	133 **41**	**17**	Brown water tower; 73.	F.R. and Fl.R. lights on radio mast 2.5 km. 130°30′. F.R. light on radio mast 4.54 km 203°.
21509 *N 6252*	-Main harbor, N. breakwater, head.	32° 06.9′ N 20° 01.8′ E	**Fl.R.** period 3s fl. 1s, ec. 2s	43 **13**	6	Red and white structure.	
21509.1 *N 6252.2*	--W. breakwater, N. head.	32° 06.9′ N 20° 02.1′ E	**Fl.G.** period 3s fl. 1s, ec. 2s	43 **13**	6	White tower, black bands.	
21510 *N 6252.4*	--	32° 07.2′ N 20° 02.6′ E	**Dir.W.R.G.**	43 **13**	W. 14 R. 9 G. 9	Red and white structure.	F.G. 062°30′-064°42′, F.W.-067°12′, F.R.-069°30′.
21511 *N 6252.6*	--No 4 Berth.	32° 06.9′ N 20° 02.5′ E	**Q.R.**	16 **5**	1		
21511.5 *N 6252.7*	--No 3 Berth.	32° 07.0′ N 20° 02.7′ E	**Q.W.**	16 **5**	3		
21512 *N 6253*	--Central Mole, head.	32° 07.2′ N 20° 02.8′ E	**Q.G.**	16 **5**	1		
21516 *N 6253.2*	-Inner Harbor, Italia Mole, head.	32° 07.0′ N 20° 03.1′ E	**Fl.R.** period 3s fl. 0.8s, ec. 2.2s	16 **5**	2		
21517 *N 6253.3*	--No 1/18 Berth.	32° 06.9′ N 20° 03.0′ E	**Fl.W.** period 3s fl. 1s, ec. 2s	16 **5**	4		
21518 *N 6253.4*	--No 19/M8 Berth.	32° 06.8′ N 20° 03.2′ E	**Q.W.**	16 **5**	3		
21519 *N 6253.5*	--MB Berth.	32° 06.5′ N 20° 03.2′ 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 *N 6253.6*	--No B22 Berth.	32° 06.9′ N 20° 03.3′ E	**Q.R.**	16 **5**	1		
21521 *N 6253.7*	--No B22A Berth.	32° 07.0′ N 20° 03.3′ 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 *N 6254.5*	-Outer harbor, W. breakwater, S. head.	32° 05.9′ N 20° 02.5′ E	**Q.R.**	43 **13**	4		
21526 *N 6254.6*	--Breakwater, head.	32° 05.7′ N 20° 02.5′ E	**Iso.W.** period 5s	33 **10**	6		
21528 *N 6254.7*	--Breakwater, head.	32° 05.9′ N 20° 02.6′ 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 *N 6255.4*	-Radio mast.	30° 53.8′ N 20° 03.9′ E	**Q.R.**	449 **137**	**15**	Radio mast.	F.R. 97m and F.R. 56m on same structure.
21540 *N 6255.5*	-Range, front.	30° 53.2′ N 20° 03.7′ E	**Fl.Y.** period 1.5s fl. 0.5s, ec. 1s	23 **7**	10	Mast, tripod, black and red rectangular daymark.	
21544 *N 6255.51*	--Rear, 750 meters 135° from front.	30° 52.9′ N 20° 04.0′ E	**Oc.Y.** period 10s lt. 6s, ec. 4s	43 **13**	10	Mast, tripod, black and red rectangular daymark.	
21545 *N 6255.6*	-Wayfeya.	30° 54.0′ N 20° 03.4′ E	**Fl.(6)W.** period 10s		5	White mast.	
21546 *N 6255.7*	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 BURAYQAH:						
21556 *N 6256.4*	-East Channel Range, front.	30° 25.2′ N 19° 37.4′ E	**Q.R.**			Black, white and red beacon.	
21560 *N 6256.41*	--Rear, 660 meters 143°41′ from front.	30° 24.9′ N 19° 37.7′ E	**Fl.R.**			Black, white and red beacon.	
21562 *N 6256.2*	-E. breakwater, head.	30° 25.1′ N 19° 35.7′ E	**Q.R.**	39 **12**	**15**		
21564 *N 6256*	-W. breakwater, head.	30° 25.1′ N 19° 35.4′ E	**Fl.G.** period 3s	39 **12**	**15**	Black structure.	
21568 *N 6257*	-Common Range, front.	30° 25.0′ N 19° 34.3′ E	**Oc.R.**			Black, white and red beacon.	
21572 *N 6256.9*	--Berth Nos 1 and 2 approach, rear, 1,408 meters 236°05′ from front.	30° 24.6′ N 19° 33.5′ E	**F.R.**			Black, white and red mast.	
21576 *N 6257.1*	--Approach rear, 1,445 meters 239°06′ from front.	30° 24.6′ N 19° 33.6′ E	**F.R.**			Black, white and red mast.	
21580 *N 6258*	-Berth No 1 Range, front.	30° 24.2′ N 19° 35.9′ E	**I.Q.W.** period 8s			Black, white and red beacon.	
21584 *N 6258.1*	--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 *N 6259*	-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 *N 6259.2*	-Front, 660 meters 147°20′ from common rear.	30° 24.8′ N 19° 36.6′ E	**Oc.R.**			Black, white and red beacon.	
21592 *N 6259.1*	--Common rear.	30° 24.5′ N 19° 36.9′ E	**Q.R.**			Black, white and red beacon.	
21596 *N 6260*	-Berth No 3, mooring island.	30° 26.0′ N 19° 33.9′ E	**F.R.**	92 **28**		Metal tower; 69.	
21598 *N 6264*	-Gas jetty, SE. head.	30° 24.7′ N 19° 35.2′ E	**F.G.**				
21600 *N 6264.4*	--NE. head.	30° 24.9′ N 19° 35.0′ E	**F.R.**				
21602 *N 6264.5*	-Intake.	30° 25.2′ N 19° 36.4′ E	**Fl.G.**			Black pile structure.	
21604 *N 6263*	-Inner Harbor approach Range, front.	30° 24.6′ N 19° 35.1′ E	**F.Y.**			Beacon.	
21608 *N 6263.1*	--Rear, 370 meters 223°58′ from front.	30° 24.5′ N 19° 34.9′ E	**F.Y.**			Beacon.	
21612 *N 6266*	**Ra's al Unuf.**	30° 30.6′ N 18° 32.3′ E	**Q.(2)W.** period 5s	164 **50**	**15**	White water tower; 171.	
			F.R.	171 **52**			Obstruction.
21613 *N 6266.3*	-Breakwater, N. head.	30° 30.5′ N 18° 35.7′ E	**Fl.(2)G.** period 10s	59 **18**	5	White and green structure.	
21614 *N 6266.4*	-Breakwater, E. head.	30° 30.3′ N 18° 35.4′ E	**Fl.(2)R.** period 10s	59 **18**	5	White and red structure.	
21615 *N 6266.5*	-Range, Front.	30° 30.8′ N 18° 34.2′ E	**F.W.**	39 **12**	9	Framework tower, white triangular daymark point up, black stripe.	
21615.1 *N 6266.51*	--Rear, 287°30′, 220 meters from front.	30° 30.8′ N 18° 34.1′ E	**F.W.**	56 **17**	4	Framework tower, white triangular daymark point down, black stripe.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LIBYA				
21615.2 *N 6266.6*	-Jetty, head, berth No 1.	30° 29.9′ N 18° 35.3′ E	**2F.W.** (vert.)	30 **9**	4	Dolphin.	
21615.3 *N 6266.7*	--Berth No 2.	30° 29.8′ N 18° 35.1′ E	**3F.W.** (vert.)	30 **9**	4	Dolphin.	
21615.4 *N 6266.8*	--Berth No 3.	30° 29.7′ N 18° 36.0′ E	**4F.W.**	30 **9**	4		Lights form square shape.
21615.5 *N 6267*	As Sidrah.	30° 36.9′ N 18° 16.8′ E	**Oc.R.** period 3s lt. 2s, ec. 1s	394 **120**	8	Radio tower; 164.	
			F.R.	308 **94**			
21616 *N 6267.2*	-SPM No 5 Approach.	30° 37.3′ N 18° 22.5′ E	**F.W.R.G.**			Beacon, white daymark, black cross.	G. 213°24′-218°24′, R.-228°24′, W.-233°24′. Beacons in line 223°25′.
21621 *N 6267.6*	Rigl Matratin, jetty, head.	30° 38.2′ N 18° 22.1′ E	**Fl.G.**		5		
	MISRATAH:						
21621.5 *N 6267.7*	-S. breakwater, head.	30° 38.1′ N 18° 22.1′ E	**Fl.R.**				
21624 *N 6268*	**Sirte.**	31° 12.5′ N 16° 35.6′ E	**Fl.W.** period 5s fl. 1s, ec. 4s	115 **35**	**15**	White water tower.	
21628 *N 6274*	-Ra's al Bara Barq.	32° 22.5′ N 15° 12.6′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	79 **24**	8	White metal framework tower, square tower, black stripes; 26.	F. and Fl.R. obstruction lights exist 14.1 km 285°.
21628.5 *N 6275*	-Qasr Ahmad, N. breakwater, head.	32° 22.2′ N 15° 13.7′ E	**Fl.G.** period 10s fl. 0.5s, ec. 9.5s			Gray beacon.	
21628.6 *N 6276*	--S. breakwater, head.	32° 22.1′ N 15° 13.6′ E	**Fl.R.** period 5s fl. 0.5s, ec. 4.5s			Gray beacon.	
21629.5 *N 6277*	--Range, front.	32° 22.1′ N 15° 12.8′ E	**Fl.G.** period 5s			White triangular daymark point up, red band.	
21629.51 *N 6277.1*	---Rear, 500 meters 270° from front.	32° 22.1′ N 15° 12.3′ E	**Fl.G.** period 12s			White triangular daymark point down, red band.	
21630 *N 6278*	-Steelworks Range, front.	32° 20.4′ N 15° 14.1′ E	**Q.Y.**	36 **11**	7		
21630.1 *N 6278.1*	--Rear, 430 meters 263° from front.	32° 20.4′ N 15° 14.2′ E	**Iso.Y.** period 6s	62 **19**	7		
21631 *N 6278.4*	--Outer breakwater, head.	32° 20.7′ N 15° 15.2′ E	**Oc.G.** period 4s lt. 3s, ec. 1s	39 **12**	5		**Horn:** 1 bl. ev. 20s (bl. 2s, si. 18s).
21631.1 *E 6278.6*	--Bulk Berth.	32° 20.7′ N 15° 14.8′ E	**2 F.G.** (vert.)	23 **7**	1		2 meters apart.
21631.5 *N 6278.5*	--Inner breakwater, head.	32° 20.5′ N 15° 14.4′ E	**Fl.R.** period 5s fl. 1s, ec. 4s	33 **10**	1		
21632 *N 6280*	Al Qalb.	32° 29.8′ N 14° 33.7′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	115 **35**	10	Black metal framework tower, white stripes, black building; 16.	F.R. and Fl.R. obstruction lights on mast 1 mile SSE.
21636 *N 6284*	Al Khums.	32° 39.4′ N 14° 16.1′ E	**Fl.W.** period 3s	85 **26**	12	White round tower, black bands; 61.	F.R. and Fl.R. lights on radio mast about 1.5 miles SW.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LIBYA				
21640 *N 6288*	Ra's al Hallab.	32° 48.0´ N 13° 48.1´ 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	Metal framework tower, white round tower; 72.	
21644 *N 6290*	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 *N 6292*	**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.	Occasional.
	TARABULUS (TRIPOLI):						
21652 *N 6294*	-Spanish Fort, Spanish Mole, N. root.	32° 54.3´ N 13° 10.6´ 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.
21664 *N 6296.4*	-Entrance, No 1.	32° 56.0´ N 13° 13.2´ E	**Fl.G.** period 3s	42 **13**	10	Green pile beacon, base.	
21672 *N 6296.6*	- -No 4.	32° 55.4´ N 13° 13.7´ E	**Fl.(2)R.** period 6s	43 **13**	10	Beacon.	
21676 *N 6299*	-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 *N 6299.5*	-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.	
21692 *N 6304*	-Spanish Mole, head.	32° 54.5´ N 13° 11.8´ E	**Iso.G.** period 4s	34 **10**	4	Green concrete column, black and white daymark; 33.	
21696 *N 6305*	-Karamanli mole, head.	32° 54.3´ N 13° 11.9´ E	**Fl.(2)R.** period 6s	33 **10**	4	Red concrete column, red and white daymark.	
21700 *N 7860*	Bouri Oilfield, SPM.	33° 54.6´ N 12° 39.2´ E	**Mo.(U)W.** period 15s			Superbuoy.	
	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 *N 6316*	Marsa Dilah.	32° 47.5´ N 12° 44.8´ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	79 **24**		Red metal column, red and white checkered building.	
21712 *N 6318*	Marsa Zuwaghah.	32° 48.8´ N 12° 25.8´ E	**Iso.W.** period 2s	66 **20**	11	Red metal framework tower, black band, white base; 20.	
21716 *N 6322*	Zuwarah, N. breakwater, root.	32° 55.6´ N 12° 07.2´ E	**Fl.W.** period 5s fl. 1s, ec. 4s	49 **15**	12	Metal framework tower, black bands, white hut.	
21720 *N 6323*	-N. breakwater, head.	32° 55.4´ N 12° 07.2´ E	**V.Q.G.**	36 **11**	8	Metal framework tower, white hut.	
21722 *N 6324*	-S. breakwater, head.	32° 55.4´ N 12° 07.2´ E	**V.Q.R.**	36 **11**	8	Red metal framework tower; 10.	
21724 *N 6325*	Abukamash, industrial complex, jetty, E. head.	33° 05.0´ N 11° 49.7´ E	**V.Q.R.**				V.Q.G. marks W. head.
21728 *N 6326*	Farwah.	33° 06.3´ N 11° 44.8´ E	**L.Fl.W.** period 5s fl. 2s, ec. 3s	56 **17**	12	Red tower, black and white building.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			TUNISIA				
21738 *E 6327*	Ras El Keft.	33° 10.9´ N 11° 29.0´ E	**Iso.G.** period 6s	30 **9**	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° 40.9´ N 10° 55.1´ E	**F.W.**	16 **5**	8		
21760 *E 6330.2*	-Arghir.	33° 45.2´ N 11° 00.7´ E	**Fl.W.** period 4.5s fl. 0.5s, ec. 4s	22 **7**	9	White round tower, red bands.	Visible 258°-010°.
21764 *E 6332*	**-Ra's Taguermess.**	33° 49.4´ N 11° 02.6´ E	**Fl.W.** period 5s fl. 0.3s, ec. 4.7s	210 **64**	**24**	White tower, red bands; 161.	
21772 *E 6339*	**-Djerba-Mellita,** AVIATION LIGHT.	33° 52.4´ N 10° 47.1´ E	**Al.Fl.W.G.** period 10s	121 **37**	W. **29** G. **26**	Structure; 85.	
21776 *E 6334*	-Hawmat as Sug (Djerba), on wharf.	33° 53.2´ N 10° 51.4´ E	**Oc.(2)W.** period 7s lt. 4s, ec. 1s lt. 1s, ec. 1s	30 **9**	14	White pylon, red bands, yellow base; 26.	Channel is marked by lighted beacons. Visible 080°-320°. F.R. on radio mast 0.5M SE.
21780 *E 6338*	-Burj Jillij, NW. point of island.	33° 53.2´ N 10° 44.8´ E	**Fl.R.** period 5s fl. 0.3s, ec. 4.7s	52 **16**	9	White octagonal tower, black top; 39.	
21784 *E 6344*	--N. side of W. channel entrance.	33° 42.2´ N 10° 36.5´ E	**Fl.(2)W.** period 9s fl. 1.5s, ec. 1.5s fl. 1.5s, ec. 4.5s	16 **5**	7		Visible 340°-250°.
21804 *E 6342.4*	-Bordj Adjim, beacon No 1.	33° 41.9´ N 10° 44.2´ 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° 42.1´ N 10° 21.7´ 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.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			TUNISIA				
	QABIS (GABES):						
21808	*-Ghannouche 0 entrance buoy.*	33° 57.0´ N 10° 09.0´ E	**Iso.W.** period 6s	23 **7**	8	SAFE WATER RW, can, topmark.	
21812 *E 6352*	-N. jetty, head.	33° 55.5´ N 10° 06.7´ E	**Fl.G.** period 4s fl. 1s, ec. 3s	39 **12**	8	Black conical tower; 16.	
21816 *E 6352.4*	-S. jetty, head.	33° 55.3´ N 10° 06.5´ E	**Fl.R.** period 5s fl. 1s, ec. 4s	39 **12**	10	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° 53.7´ 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° 53.7´ 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° 16.1´ N 10° 05.1´ E	**Fl.(2)G.** period 10s	20 **6**	6		
21827 *E 6353.1*	--SW. of entrance.	34° 17.1´ N 10° 05.7´ E	**Fl.R.** period 5s fl. 0.5s, ec. 4.5s	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**	Dark green metal framework tower.	
21832 *E 6356*	-Oil pier, head.	34° 18.3´ N 10° 09.3´ E	**F.R.**	105 **32**	5	Gantry.	
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° 39.1´ 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 tower, red bands, white dwelling; 144.	
	SFAX:						
21845 *E 6362.5*	-S. breakwater, head.	34° 42.8´ N 10° 46.1´ E	**Fl.R.** period 5s fl. 1s, ec. 4s	13 **4**	10	Red tower.	
21846 *E 6362.6*	-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 *E 6362.7*	-Detached breakwater, N. extremity.	34° 42.8´ N 10° 46.3´ E	**Iso.R.** period 6s	13 **4**	10	Red tower.	
21848 *E 6362*	-Port Light, on Quai du Commerce.	34° 43.9´ N 10° 46.1´ E	**Oc.(2)W.** period 8s lt. 4.5s, ec. 1s lt. 1.5s, ec. 1s	58 **18**	13	Grey metal framework tower, black top, white band, hut; 56.	Intensified 319°-325°.
21852 *E 6366.6*	-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	Black pedestal, white top; 30.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			TUNISIA				
21897 *E 6364*	Port de Loueta, W. coast.	35° 02.4´ N 11° 02.0´ E	**Fl.R.** period 5s fl. 1s, ec. 4s	23 **7**	6	Red tower.	
21897.2 *E 6364.2*	-E. coast.	35° 02.5´ N 11° 02.1´ E	**Fl.G.** period 4s fl. 1s, ec. 3s	23 **7**	6	Green tower.	
21898 *E 6369*	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 *E 6369.2*	-S. jetty.	35° 13.4´ N 11° 09.5´ E	**Fl.(2)R.** period 6.5s	26 **8**	6	Red tower.	
21900 *E 6368*	**Ras Kapudia (La Chebba).**	35° 13.9´ 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	White octagonal tower, red bands, triangular daymark point down; 59.	W. 135°-325°, R.-135°.
21904 *E 6370*	**Al Mahdiyah.**	35° 30.6´ N 11° 05.0´ E	**Fl.R.** period 5s fl. 0.3s, ec. 4.7s	86 **26**	**17**	White hexagonal tower, red top, dwelling; 49.	
21908 *E 6371*	-S. jetty, head.	35° 29.8´ N 11° 04.1´ E	**Fl.W.** period 2s fl. 0.5s, ec. 1.5s	30 **9**	4	Aluminum pylon.	
21912 *E 6371.2*	--Spur, head.	35° 30.0´ N 11° 04.2´ E	**F.G.**	19 **6**	3		
21913 *E 6371.4*	--Outer spur, head.	35° 29.8´ N 11° 04.1´ E	**Fl.(2)G.** period 10s fl. 1s, ec. 1s fl. 2s, ec. 6s	20 **6**	6		
21916 *E 6372*	-W. spur, head.	35° 30.0´ N 11° 04.1´ E	**F.R.**	16 **5**	3		
21917 *E 6372.6*	-Breakwater, SE. head.	35° 30.0´ N 11° 04.3´ E	**Fl.(2)R.** period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	13 **4**	6		
21919 *E 6372.8*	Bekalta, E. jetty.	35° 37.5´ N 11° 03.0´ E	**Fl.G.** period 4s fl. 1s, ec. 3s	30 **9**	7		Fl.R. 5s 9m 7M marks W. jetty.
21920 *E 6380*	**Jazirat Qurayyat.**	35° 48.0´ 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 dwelling; 85.	R. 348°-053°, W.-348°.
21921 *E 6373.6*	Teboulba, NW.	35° 39.8´ N 10° 57.5´ E	**L.Fl.G.** period 10s	23 **7**	5	Green tower; 20.	
21922 *E 6373.8*	-NE.	35° 39.5´ N 10° 57.6´ E	**L.Fl.R.** period 10s	23 **7**	5	Red tower; 20.	
21924 *E 6373.22*	Saiadah (Sayada), outer jetty.	35° 40.8´ 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 *E 6373*	-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 tower; 20.	
21926 *E 6373.2*	-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 tower; 20.	
21932 *E 6374*	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	White minaret, black bands; 20.	Visible 197°-355°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			TUNISIA				
21933 *E 6376*	-Fishing Port, covered mole, extremity.	35° 45.5´ N 10° 50.0´ E	**Fl.R.** period 5s fl. 1s, ec. 4s	39 **12**	5	Tripod.	
21935 *E 6377.2*	-Breakwater, S. extremity.	35° 47.0´ N 10° 50.0´ E	**Fl.R.** period 5s fl. 1s, ec. 4s	26 **8**	6	Red tower.	
21936 *E 6377*	-Marina, E. side.	35° 46.7´ N 10° 50.1´ E	**Fl.G.** period 4s fl. 1s, ec. 3s	26 **8**	6	Green tower.	
21940 *E 6381*	Main jetty.	35° 47.5´ N 10° 41.0´ E	**Oc.G.** period 5s lt. 4.5s, ec. 0.5s	26 **8**	5		
21944 *E 6381.5*	-Secondary jetty.	35° 47.3´ N 10° 41.2´ E	**Oc.(2)W.** period 10s lt. 8s, ec. 0.5s lt. 1s, ec. 0.5s	26 **8**	5		
	SUSAH:						
21952 *E 6384*	-Jetee Abri.	35° 49.6´ N 10° 39.1´ E	**Oc.W.R.** period 4s	39 **12**	W. 10 R. 6	Red truncated conical tower, white base; 30.	R. 135°-180°, W.-045°. Reserve light range 6M.
21956 *E 6382*	**-Susah.**	35° 49.3´ N 10° 38.1´ E	**Fl.W.** period 4s fl. 0.3s, ec. 3.7s	230 **70**	**22**	White square tower, pylon; 72.	
21960 *E 6385*	-Epi Nord, head.	35° 49.5´ N 10° 38.9´ E	**Fl.G.** period 4s fl. 1s, ec. 3s	33 **10**	8	Green truncated conical tower; 26.	Visible 258°-112°. Reserve light range 6M.
21964 *E 6385.5*	-Epi Sud, head.	35° 49.5´ N 10° 38.9´ E	**Fl.R.** period 5s fl. 1s, ec. 4s	33 **10**	8	Red truncated conical tower; 26.	Reserve light range 6M.
21972 *E 6387*	El Kantaoui, marina, E. jetty, head.	35° 53.6´ N 10° 36.1´ E	**Fl.G.** period 6s fl. 1s, ec. 5s	30 **9**	6	Green tower; 20.	
21976 *E 6387.3*	- -W. jetty, head.	35° 53.5´ N 10° 36.0´ E	**Fl.R.** period 6s fl. 1s, ec. 5s	29 **9**	6	Red tower; 20.	
21976.3 *E 6388*	Hargalah, large jetty, head.	36° 02.0´ N 10° 30.8´ E	**Fl.(2)G.** period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	16 **5**	6		
21976.4 *E 6388.2*	-S. jetty, head.	36° 01.9´ N 10° 30.6´ E	**Fl.R.** period 5s fl. 1s, ec. 4s	30 **9**	6		
21976.5 *E 6386*	**Hammamet.**	36° 23.7´ N 10° 36.7´ E	**Fl.(2)W.** period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	56 **17**	**15**	Pylon, casbah wall; 46.	Visible 255°-165°. Reserve light F.W. 7M.
21976.51 *E 6386.1*	-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 *E 6389.5*	Ra's al Ma'murah, large jetty, head.	36° 27.1´ N 10° 47.8´ E	**Fl.(2)G.** period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	16 **5**	6		
21976.7 *E 6389.6*	-S. jetty, head.	36° 27.0´ N 10° 47.8´ E	**Fl.R.** period 5s fl. 0.5s, ec. 4.5s	16 **5**	6		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			TUNISIA				
	KELIBIA:						
21977 *E 6390.4*	-S. jetty, head.	36° 49.7´ N 11° 06.8´ E	**Fl.(2)W.** period 8s fl. 1s, ec. 1.5s fl. 1s, ec. 4.5s	16 **5**	5	White pylon; 16.	
21978 *E 6390.42*	--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 *E 6390.6*	-W. jetty, head.	36° 50.1´ N 11° 06.6´ E	**Fl.R.** period 2s fl. 0.5s, ec. 1.5s	16 **5**	2	Red pylon.	
21980 *E 6390*	**-Rass Mostefa.**	36° 50.1´ N 11° 07.4´ 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 *E 6391*	Ras el Melah.	36° 52.3´ N 11° 08.1´ E	**Fl.R.** period 5s	23 **7**	4		
21984 *E 6392*	**Cap Bon (Ra's at Tib).**	37° 04.9´ 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°.
21985 *E 6392.3*	-Pipeline zone, S. end.	37° 00.4´ N 11° 03.5´ E	**Fl.(3)Y.** period 10s fl. 0.2s, ec. 0.8s fl. 0.2s, ec. 0.8s fl. 0.6s, ec. 7.4s	52 **16**	9	SPECIAL Y, beacon, "X" topmark.	
21985.1 *E 6392.4*	-Pipeline zone, N. limit.	37° 01.5´ N 11° 03.4´ E	**Fl.(3)Y.** period 10s fl. 0.2s, ec. 0.8s fl. 0.2s, ec. 0.8s fl. 0.6s, ec. 7.4s	52 **16**	9	SPECIAL Y, beacon, "X" topmark.	
	KHALIS TUNIS:						
	-La Goulette:						
21988 *E 6394*	--Zembretta Isle.	37° 06.3´ N 10° 52.6´ E	**Fl.W.** period 4s fl. 1s, ec. 3s	194 **59**	6	Black pylon; 39.	Visible 124°-099°.
21989 *E 6394.2*	-Ile Zembra, E. entrance.	37° 06.9´ N 10° 48.1´ E	**Fl.G.** period 4s	16 **5**	5		
21989.1 *E 6394.4*	--W. entrance.	37° 06.9´ N 10° 48.4´ E	**Fl.R.** period 5s fl. 1s, ec. 4s	11 **4**	5		
21990 *E 6394.5*	Sidi Daoud, fishing harbor, N. jetty, head.	37° 01.2´ N 10° 54.9´ E	**Fl.(2)R.** period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	10 **3**	6		
21991 *E 6394.61*	-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 *E 6401*	-Power station.	36° 47.8´ N 10° 17.0´ E	**Fl.R.** period 1.5s	335 **102**	8	Chimney; 328.	
21996 *E 6396*	--Jetee 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.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			TUNISIA				
22000 *E 6397.5*	--Port side.	36° 48.4´ N 10° 18.6´ E	**F.R.**	43 **13**	5		
22002 *E 6397*	-Dique 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	Tower.	
22004 *E 6399*	--Dique Sud No 10.	36° 48.3´ N 10° 18.4´ E	**Fl.R.** period 5s fl. 1s, ec. 4s	30 **9**	6	Red truncated conical tower; 23.	
22008 *E 6396.5*	--Ro Ro Berth.	36° 48.4´ N 10° 18.3´ E	**Fl.G.** period 4s fl. 1s, ec. 3s	23 **7**	6		
22032 *E 6410*	-Tunis.	36° 47.7´ N 10° 11.5´ E	**Fl.(2)W.** period 6s	37 **11**	11		Intensified 256°-260°.
22040 *E 6412*	**Ras Qartajamah.**	36° 52.4´ N 10° 20.9´ E	**Fl.W.** period 5s fl. 0.3s, ec. 4.7s	480 **146**	**22**	White tower, black top; 39.	
22044 *E 6413*	-Jetty, SE. extremity.	36° 51.9´ N 10° 21.1´ E	**Fl.G.** period 4s fl. 1s, ec. 3s	20 **6**	8	Pylon; 13.	
22048 *E 6413.2*	-Jetty, NW. extremity.	36° 52.0´ N 10° 21.0´ E	**Fl.R.** period 5s fl. 1s, ec. 4s	13 **4**	4	Pedestal; 10.	
22056 *E 6414*	**Al Jazirah al Mussattahah.**	37° 11.0´ N 10° 19.9´ E	**Fl.(2)W.R.** period 10s fl. 1.5s, ec. 1.5s fl. 1.5s, ec. 5.5s	65 **20**	W. **15** R. 11	White square tower, red bands; 39.	R. 067°-107°, W.-067°.
22060 *E 6415*	Lac de Porto-Farina, N. jetty, head.	37° 08.6´ N 10° 12.6´ E	**Fl.G** period 4s fl. 1s, ec. 3s	16 **5**	6	Tower; 13.	
22062 *E 6415.2*	-S. jetty, head.	37° 08.5´ N 10° 12.6´ E	**Fl.R.** period 5s fl. 1s, ec. 4s	16 **5**	4		
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, dwelling; 69.	W. 237°-177°, R.-237°.
22065 *E 6418*	Ras as Zabib, fishing harbor, jetty, head.	37° 16.0´ N 10° 04.2´ E	**Fl.G.** period 4s fl. 1s, ec. 3s	33 **10**	6	Green tower.	
22066 *E 6418.1*	--Jetty, head.	37° 16.0´ 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	Black pylon; 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 conical tower; 26.	
22078 *E 6423*	-Zarzouna, fishing harbor, N. breakwater.	37° 16.1´ N 9° 53.7´ E	**Fl.G.** period 4s fl. 1s, ec. 3s	20 **6**	7		
22078.5 *E 6423.4*	--E. breakwater.	37° 16.1´ N 9° 53.7´ E	**Fl.R.** period 5s fl. 1s, ec. 4s	20 **6**	6		
22080 *E 6426*	-Jetee Nord, head.	37° 16.7´ N 9° 53.4´ E	**F.G.**	49 **15**	4	Green conical tower; 26.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			TUNISIA				
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.	
22096 *E 6436*	-Goulet, Quai Nord.	37° 15.9´ N 9° 52.1´ E	**Fl.G.** period 4s fl. 1s, ec. 3s	16 **5**	4	Beacon.	
22100 *E 6438*	--Quai Sud.	37° 15.8´ N 9° 52.2´ E	**Fl.R.** period 5s fl. 1s, ec. 4s	16 **5**	5	Beacon.	
22104 *E 6440*	--Pointe de Sebra.	37° 15.5´ N 9° 51.6´ E	**Fl.W.R.G.** period 6s fl. 0.3s, ec. 5.7s	52 **16**	8	White tower, black bands; 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**	8		
	MANZIL BU RUQAYBAH:						
22120 *E 6446*	-Digue Est, N. head.	37° 09.5´ N 9° 48.9´ E	**Fl.G.** period 4s fl. 1s, ec. 3s	10 **3**	3		
22124 *E 6445*	-Jetee Nord, E. head.	37° 09.6´ N 9° 48.9´ E	**Fl.G.** period 4s fl. 1s, ec. 3s	10 **3**	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, dwelling; 49.	R. 060°-085° W.-305°.
22136 *E 6458*	**Cap Serrat.**	37° 14.0´ N 9° 12.7´ 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, dwelling; 43.	W. 261°-238°, R.-261°.
22138 *E 6459*	Sidi Mechrig, W. jetty.	37° 10.1´ N 9° 07.5´ E	**Fl.R.** period 5s fl. 1s, ec. 4s	33 **10**	6		
22139 *E 6459.1*	--Outer.	37° 10.1´ N 9° 07.5´ E	**Fl.G.** period 4s fl. 1s, ec. 3s	33 **10**	6		
22140 *E 6459.2*	--Inner.	37° 10.1´ N 9° 07.6´ E	**Fl.G.** period 4s fl. 1s, ec. 3s	13 **4**	3		
22144 *E 6464*	**Galiton de l'Ouest.**	37° 29.9´ N 8° 52.5´ 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, gray building; 46.	Visible 250°-227°. May appear as Fl.(2)W. 20s at a distance.
	-Auxiliary light.		**F.R.**	524 **160**	**23**		Visible 064°-069°.
22145 *E 6465*	Ile de La Galite, jetty, head.	37° 31.5´ N 8° 56.3´ E	**Fl.R.** period 5s fl. 0.5s, ec. 4.5s				
22146 *E 6465.2*	-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 *E 6460*	**Jazirat Tabargah.**	36° 57.8´ N 8° 45.5´ E	**Fl.W.** period 5s fl. 1s, ec. 4s	236 **72**	**17**	White tower.	
22152 *E 6462*	-Fishing harbor, N. mole, head.	36° 57.4´ N 8° 45.9´ E	**Fl.G.** period 4s fl. 1s, ec. 3s	33 **10**	8	Green tower.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			TUNISIA				
22156 *E 6462.4*	--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 *E 6482*	El Kala (La Calle), E. side of entrance.	36° 54.0´ N 8° 26.3´ E	**Iso.R.** period 4s	56 **17**	9	White tower, red lantern; 26.	Obscured by Pointe Noire southward of 091°.
22166 *E 6483*	-Pointe du Cimetiere, jetty, head.	36° 54.1´ N 8° 27.5´ E	**Fl.G.** period 4s fl. 1s, ec. 3s	33 **10**	2	White tower; 13.	
22168 *E 6484*	**Cap Rosa.**	36° 56.8´ N 8° 14.3´ E	**Fl.(2)W.** period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	427 **130**	**19**	White round tower; 43.	
	ANNABA (BONE):						
22176 *E 6486*	-Jetee du Lion, head.	36° 54.2´ N 7° 46.9´ E	**Oc.(3)G.** period 12s lt. 4.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s	62 **19**	13	White round tower; 56.	
22180 *E 6490*	-Jetee Sud, head.	36° 54.1´ N 7° 46.8´ E	**Oc.(2)R.** period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	49 **15**	14	White round tower; 46.	
22184 *E 6492.4*	-Jetee Sud, N. side.	36° 54.2´ N 7° 46.7´ E	**F.R.**	23 **7**	2	White column.	
22188 *E 6495.2*	-Grand Basin, entrance, N. side.	36° 54.3´ N 7° 46.5´ E	**F.G.**	10 **3**	2	White square structure; 7.	
22192 *E 6495*	-Darse de la Grenouillere, S. side of entrance.	36° 54.3´ N 7° 46.5´ E	**F.R.**	10 **3**	2	White square structure; 6.	A F.G. light is shown on N. side of entrance.
22204 *E 6504*	-Fort Genois.	36° 57.0´ N 7° 46.5´ E	**Oc.(2)W.** period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	200 **61**	12	White tower, dwelling; 26.	Obscured 240°-263° within 0.5M.
22208 *E 6506*	**Cap de Garde.**	36° 58.0´ N 7° 47.0´ E	**Fl.W.** period 5s fl. 0.4s, ec. 4.6s	469 **143**	**29**	Gray square tower, white dwelling; 46.	Signal station.
22212 *E 6508*	Roche Akcine (Axin).	37° 03.1´ N 7° 30.6´ E	**Fl.(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 *E 6510*	-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 lantern; 33.	W. 140°-278°, R.-290°, W.-320°.
22220 *E 6512*	-E. jetty, head.	37° 04.0´ N 7° 23.1´ E	**F.G.**	30 **9**	2	White column; 16.	
22224 *E 6514*	-W. jetty, head.	37° 04.0´ N 7° 23.0´ E	**F.R.**	26 **8**		White column; 20.	
	GOLFE DE STORA:						
22228 *E 6516*	**-Cap de Fer.**	37° 05.0´ N 7° 10.6´ 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**	**20**	White round tower, dwelling; 56.	Visible 312°-254°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			ALGERIA				
22232 *E 6518*	-El Mersa.	37° 01.7´ N 7° 15.3´ E	**Iso.W.** period 4s	33 **10**	7	White pylon; 13.	
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 round tower; 46.	W. 160°-288°, R.-160°.
22244 *E 6524*	- -Jetee 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 round tower; 26.	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 round tower.	Visible 296°-126°.
22252 *E 6520*	- -Port Methanier, main breakwater, head.	36° 53.6´ N 6° 56.8´ 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 pyramid tower; 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. **15** G. 9	White square tower, green lantern; 30.	G. 193°30′-216°, W.-023°, G.-080°.
22268 *E 6533*	-Ile du Lion.	36° 55.2´ N 6° 53.4´ E	**Fl.G.** period 5s			White square tower.	
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**	White square tower; 39.	Obscured by Point Esrah when bearing less than 122°.
22276 *E 6538*	-Collo, jetty, head.	37° 00.5´ N 6° 34.7´ E	**F.G.**	43 **13**	5	White column; 26.	Obscured when bearing less than 221°.
22280 *E 6540*	Pointe Djerda.	37° 01.1´ N 6° 35.3´ E	**Fl.G.** period 5s fl. 0.6s, ec. 4.4s	85 **26**	12	White octagonal tower; 36.	Visible 146°-323°.
22284 *E 6542*	**Cap Bougaroun.**	37° 05.4´ N 6° 28.4´ 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°.
22288 *E 6544*	Ras el Moghreb.	37° 01.4´ N 6° 15.8´ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	98 **30**	7	White round tower, dwelling; 49.	
	JIJEL (DJIDJELLI):						
22292 *E 6550*	-Jetee Nord, main light, groyne, root.	36° 49.6´ N 5° 46.8´ E	**Fl.(2+1)W.R.** period 12s fl. 1s, ec. 1s fl. 1s, ec. 3s fl. 1s, ec. 5s	61 **19**	W. 12 R. 9	Yellow square tower; 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	Red column; 13.	F.R. and F.G. lights mark the heads of the jetties in the inner harbor.
22300 *E 6552*	-Jetee Sud.	36° 49.5´ N 5° 46.8´ E	**F.R.**	16 **5**	3	Red round column.	Fl.R. 4s light marks mole close E.
22308 *E 6558*	**Ras Afia.**	36° 49.0´ N 5° 41.4´ E	**Fl.R.** period 5s fl. 0.5s, ec. 4.5s	140 **43**	**23**	Yellow octagonal tower, dwelling; 46.	Visible 027°-255°, obscured by Cap Cavallo southward of 064°. Reserve light F.W.
22312 *E 6560*	Hadjret Tafalkout.	36° 46.4´ N 5° 34.4´ E	**Fl.(9)W.** period 15s	69 **21**	5	White metal pylon; 16.	
22316 *E 6562*	Ile Mansouria.	36° 40.7´ N 5° 28.8´ E	**Fl.W.** period 2.5s fl. 0.5s, ec. 2s	69 **21**	5	White column; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			ALGERIA				
	BOUGIE (BEJAIA):						
22320 *E 6567*	-Jetee Sud.	36° 45.1´ N 5° 05.9´ E	**Oc.(2)R.** period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	36 **11**	10	White round column, hut; 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 *E 6566*	-E. jetty.	36° 45.2´ N 5° 06.1´ E	**Oc.W.** period 4s lt. 3s, ec. 1s	52 **16**	12	Black metal framework tower, hut; 49.	Obscured by Ras Bouak on bearings less than 205°.
22328 *E 6572*	**-Cap Carbon.**	36° 46.5´ N 5° 06.2´ 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 round tower, dwelling; 33.	Visible 090°-022°, obscured by Cap Noir to westward of 333°.
22332 *E 6573*	- -Auxiliary light, 150 meters 056° from main light, at foot of cliff.	36° 46.6´ N 5° 06.3´ E	**Q.W.R.**	105 **32**	W. 10 R. 7	White tower, black lantern; 26.	R. 114°-126°, W.-295°.
22336 *E 6578*	**Cap Sigli** AVIATION LIGHT.	36° 53.8´ N 4° 45.6´ E	**Fl.W.** period 5s fl. 0.6s, ec. 4.4s	187 **57**	**17**	White octagonal tower, four-sided building; 82.	Partially obscured 000°-010°.
	DELLYS:						
22340 *E 6580*	**-Cap Corbelin.**	36° 54.5´ N 4° 25.5´ E	**Fl.(2+1)W.R.** period 15s fl. 0.1s, ec. 2.4s fl. 0.1s, ec. 6.1s fl. 0.1s, ec. 6.2s	137 **42**	W. **17** R. 14	Round tower; 43.	R. 001°30′-104°30′, W.-001°30′. Obscured when bearing less than 266°.
22344 *E 6582*	-Azeffoun, jetty, head.	36° 54.1´ N 4° 25.3´ E	**Fl.R.** period 2s fl. 0.5s, ec. 1.5s	20 **6**		White round structure; 13.	Fl.G. 2s light marks E. side.
22348 *E 6584*	-Pointe de Dellys.	36° 55.3´ N 3° 55.3´ E	**Fl.(2)R.** period 8s fl. 1s, ec. 2s fl. 1s, ec. 4s	135 **41**	8	Yellow tower, red lantern; 26.	Visible 066°-336°, obscured by Cap Bengut when bearing less than 094°.
22352 *E 6588*	-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 *E 6590*	-S. wharf, SE. angle.	36° 54.8´ N 3° 55.0´ E	**Oc.(2)R.** period 8s lt. 1.5s, ec. 1s lt. 4.5s, ec. 1s	39 **12**	5	White tower; 33.	Obscured by Pointe de Dellys when bearing less than 203°.
22360 *E 6592*	**Cap Bengut.**	36° 55.3´ N 3° 53.6´ E	**Fl.(4)W.** period 15s	208 **63**	**30**	White square tower, green top, brown dwelling; 95.	Visible 079°-287°.
22362 *E 6593*	Cape Djenet.	36° 52.5´ N 3° 43.0´ E	**Fl.(3)R.** period 12s		10		
22362.2 *E 6593.2*	-Jetty.	36° 52.4´ N 3° 42.8´ E	**Fl.(3)G.** period 12s		8		
22364 *E 6593.4*	Courbet-Marine, NE. pier, head.	36° 48.2´ N 3° 33.7´ E	**Fl.(3)W.** period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	52 **16**	8		
22368 *E 6594*	**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; 36.	Visible 040°-310°.
22372 *E 6596*	Tamentfoust (La Perouse), jetty, head.	36° 48.3´ N 3° 13.7´ E	**Iso.R.** period 2s	33 **10**	7	White column; 23.	Obscured by Cap Matifou when bearing more than 145°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			ALGERIA				
	ALGER (ALGIERS):						
22376 *E 6620*	-Ecueil M'Tahem.	36° 47.7′ N 3° 03.9′ E	**Q.(3)W.** period 10s	40 **12**	8	E. CARDINAL BYB, tower, topmark.	**Radar reflector.**
22380 *E 6602*	**-Passe Nord.**	36° 46.6′ N 3° 04.7′ E	**Fl.(2)W.** period 3s	75 **23**	**20**	White tower; 53.	Visible 154°-055°. **Horn:** Mo.(N) ev. 30s
22384 *E 6604*	--Jetee Waiter, spur.	36° 46.8′ N 3° 04.3′ E	**Fl.G.** period 4s fl. 1s, ec. 3s	33 **10**	11	White tower, green top.	Visible 309°-133°.
22388 *E 6606*	--Jetee 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, red top; 23.	Visible 059°-014°.
22400 *E 6611*	--Jetee Mustapha, spur.	36° 45.8′ N 3° 04.6′ E	**Iso.G.** period 4s	39 **12**	12	White tower, green top; 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, red top; 23.	Visible 005°-312°.
22408 *E 6612*	-Bassin de l'Agha, S. entrance, W. side.	36° 45.9′ N 3° 04.1′ E	**Fl.R.** period 2.5s	33 **10**	8	White round tower; 26.	Visible 065°-319°.
22412 *E 6613*	---E. side.	36° 45.9′ N 3° 04.1′ E	**Fl.G.** period 2.5s	36 **11**	7	White round tower; 26.	Visible 285°-160°.
22416 *E 6616*	--(Amiral Mouchez Mole), N. entrance, W. side.	36° 46.3′ N 3° 03.9′ E	**F.R.**	33 **10**	9	White round column; 26.	Visible 145°-025°.
22420 *E 6617*	---E. side.	36° 46.3′ N 3° 04.0′ E	**F.G.**	33 **10**	8	White round column; 26.	Visible 340°-196°.
22424 *E 6621*	**Cap Caxine.**	36° 48.8′ N 2° 57.2′ E	**Fl.W.** period 5s fl. 0.2s, ec. 4.8s	210 **64**	**30**	Yellow square tower, green top; 102.	Visible 075°-300°.
22432 *E 6624*	**Sidi Ferruch.**	36° 45.9′ N 2° 50.7′ E	**Fl.(3)W.** period 12s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 5s	138 **42**	**17**	White building; 79.	Various lights in port.
22434 *E 6624.6*	-Jetee Principale, head.	36° 45.8′ N 2° 51.0′ E	**Iso.W.G.** period 4s	46 **14**	W. 11 G. 8	White metal column; 36.	W. 190°-129°, G.-190°.
22438 *E 6629*	Bou Haroun, E. jetty, head.	36° 37.6′ N 2° 39.3′ E	**F.R.**	26 **8**	5	White post; 20.	
22440 *E 6628*	**Chera,** AVIATION LIGHT.	36° 25.0′ N 2° 52.1′ E	**Fl.(3+1)W.** period 7s	5249 **1600**	**50**	Control tower.	
	TIPASA:						
22444 *E 6630*	-Ras el Kalia.	36° 35.8′ N 2° 26.9′ E	**Oc.W.** period 4s lt. 3s, ec. 1s	105 **32**	12	Yellow square tower, green top; 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	**Fl.G.** period 2.5s fl. 0.5s, ec. 2s	26 **8**			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**	3	White post; 33.	Partially obscured by Ras el Kalia.
	CHERCHELL:						
22468 *E 6636*	**-Fort Joinville.**	36° 36.7′ N 2° 11.3′ E	**Fl.(2+1)W.** period 15s fl. 0.1s, ec. 6.1s fl. 0.1s, ec. 6.2s fl. 0.1s, ec. 2.4s	121 **37**	**21**	Gray truncated conical tower; 85.	Unintensified 326°-037°30′.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			ALGERIA				
22472 *E 6638*	-Jetee Joinville, head.	36° 36.8´ N 2° 11.5´ E	**Iso.G.** period 4s	33 **10**	7	White column, black lantern; 16.	
22480 *E 6642*	-Quai Est, N. head.	36° 36.7´ N 2° 11.4´ E	**F.R.**	23 **7**	6	White column, red lantern; 23.	
22484 *E 6637*	-Grand Hamman Shelf.	36° 36.9´ N 2° 11.7´ E	**Q.W.**	42 **13**	7	N. CARDINAL BY, tower, topmark; 23.	
22486 *E 6644*	Ilot Tokikt.	36° 35.7´ N 1° 50.5´ E	**Fl.(2)W.** period 6s				
22488 *E 6646*	**Cap Tenes.**	36° 33.0´ N 1° 20.4´ E	**Fl.(2)W.** period 10s fl. 0.1s, ec. 2.4s fl. 0.1s, ec. 7.4s	292 **89**	**31**	White square tower, green lantern; 85.	
	TENES:						
22492 *E 6651*	-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; 30.	Visible 193°-096°.
22496 *E 6650*	-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; 26.	Visible 226°-116°.
22500 *E 6648*	-Detached breakwater, W. head.	36° 31.6´ N 1° 18.9´ E	**Q.W.**	33 **10**	10	White tower; 13.	
22504 *E 6649*	--E. head.	36° 31.8´ N 1° 19.2´ E	**Iso.G.** period 4s	33 **10**	10	White tower; 13.	
22508 *E 6652*		36° 31.7´ N 1° 19.6´ E	**F.W.G.**	26 **8**		Hut.	W. sector 1°.
22512 *E 6656*	**Pointe Colombi.**	36° 26.6´ N 0° 56.4´ 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**	**25**	Red square tower; 95.	
22516 *E 6656.5*	-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 pylon; 10.	
22520 *E 6658*	**Cap Ivi.**	36° 06.8´ N 0° 13.6´ E	**Fl.W.** period 5s fl. 0.4s, ec. 4.6s	387 **118**	**31**	Yellow octagonal tower, red dwelling.	Visible 064°-244°.
	GOLFE D'ARZEW:						
22524 *E 6660*	--N. jetty, head.	35° 56.0´ N 0° 04.1´ 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; 33.	W. 234°-197°, R.-234°.
	-Mostaganem:						
22528 *E 6664*	--Mole de la Liberation.	35° 56.2´ N 0° 04.5´ E	**Fl.G.** period 4s fl. 1s, ec. 3s	36 **11**	6	White round column; 33.	
22532 *E 6662*	--Traverse SW., head.	35° 56.0´ N 0° 04.3´ 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*	--Jetee Nord, spur, head.	35° 56.2´ N 0° 04.4´ E	**Oc.(2)R.** period 6s lt. 1s, ec. 1s lt. 3s, ec. 1s	36 **11**	7	White round tower; 26.	Visible 248°-073°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			ALGERIA				
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**	13	White tower; 49.	Obscured by Cap Carbon when bearing less than 132°.
22548 *E 6669*	--Jetee Abri, head.	35° 51.5´ N 0° 17.6´ W	**Oc.G.** period 4s lt. 3s, ec. 1s	30 **9**	9	White column; 30.	
22552 *E 6670*	--Jetee du Large, head.	35° 50.9´ N 0° 17.5´ W	**Fl.(4)W.** period 6s	49 **15**	12	White tower, black top; 46.	
22556 *E 6671.2*	--Jetee Sud, head.	35° 51.2´ N 0° 18.0´ W	**Iso.R.** period 2s	13 **4**	2	Red metal pylon; 10.	
22560 *E 6671*	--Jetee secondaire, on dolphin 30 meters E. of head.	35° 51.0´ N 0° 17.9´ W	**Fl.R.** period 4s fl. 1s, ec. 3s	20 **6**	2	Red pylon, dolphin; 7.	
	-Bettioua:						
22572 *E 6665.4*	--W. breakwater, head.	35° 49.3´ N 0° 15.5´ W	**Fl.G.** period 2s fl. 0.5s, ec. 1.5s			White column, green top.	
22576 *E 6665.3*	--E. breakwater, head.	35° 49.1´ N 0° 14.6´ W	**Fl.R.** period 2s fl. 0.5s, ec. 1.5s			White column, red top.	
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, black top; 43.	Partially obscured 000°-010°.
	ORAN:						
22584 *E 6678*	**-Jetee du Large.**	35° 43.2´ N 0° 37.7´ W	**Fl.(2+1)W.** period 15s	69 **21**	**22**	White pylon; 49.	Visible 062°-332°. **Horn.**
22588 *E 6679*	--Epi du Large.	35° 43.1´ N 0° 37.7´ W	**Iso.G.** period 7s	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 round 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 round column; 23.	Visible 213°-123°.
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 round 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 round 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 round column; 23.	
22612 *E 6685.2*	--NW. corner.	35° 42.1´ N 0° 38.2´ W	**Iso.R.** period 2s	26 **8**	6	White hut; 20.	
22616 *E 6687*	-Mole Millerand, NW. corner.	35° 42.7´ N 0° 38.5´ W	**F.R.**	29 **9**	7	Red round column; 23.	Visible 359°-332°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			ALGERIA				
22620 *E 6694.2*	-Mole Jules Giraud, NW. corner.	35° 42.7′ N 0° 38.9′ W	**F.R.**	29 **9**	7	Red round 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 round column; 23.	
22628 *E 6695*	-Ibn-Tofail, NE. corner.	35° 42.5′ N 0° 39.1′ W	**Oc.W.** period 4s lt. 3s, ec. 1s	30 **9**	10	Red round 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 round 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 round 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 round 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 round 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 triangle point up in white square daymark; 59.	Visible 244°-274°.
22652 *E 6704.1*	--Rear, 329 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, white triangle point down in black square daymark; 23.	Intensified 256°30′-261°30′.
22656 *E 6704.4*	-N. jetty, head.	35° 43.6′ N 0° 40.7′ 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	**Fl.G.** period 4s fl. 1s, ec. 3s	16 **5**		White pylon, green top; 10.	
22664 *E 6704.5*	-E. jetty, head.	35° 43.4′ N 0° 40.7′ W	**Fl.R.** period 4s fl. 1s, ec. 3s	46 **14**	12	White mast, 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 pyramidal tower, red bands.	Lights only visible within the harbor are shown from quays in northern part of harbor.
22672 *E 6708*	**Cap Falcon.**	35° 46.3′ N 0° 48.1′ 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, gray lantern; 95.	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° 46.3′ N 0° 54.1′ W	**Fl.(2)W.** period 6s	79 **24**	9	ISOLATED DANGER BRB, tower, topmark; 20.	
22684 *E 6714*	**Iles Habibas.**	35° 43.3′ N 1° 08.1′ W	**Fl.W.** period 5s fl. 0.6s, ec. 4.4s	367 **112**	**26**	Brown square tower, dwelling, green top; 46.	
22688 *E 6716*	Beni Saf, outer breakwater, head.	35° 18.5′ N 1° 23.4′ W	**Iso.G.** period 4s	36 **11**	7	Black column, hut; 30.	Visible 072°-342°.
22692 *E 6717*	-E. breakwater, head.	35° 18.4′ N 1° 23.4′ W	**Oc.(2)R.** period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	30 **9**	8	Red column; 23.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			ALGERIA				
22696 *E 6718*	**Ile Rachgoun.**	35° 19.4´ N 1° 28.5´ W	**Fl.(2)R.** period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	266 **81**	**16**	Yellow square tower, red top; 62.	
22700 *E 6720*	**-Nemours.**	35° 05.7´ N 1° 52.4´ 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**	Tower, dwelling; 49.	Visible 058°-248°.
	GHAZAOUET (NEMOURS):						
22704 *E 6732*	-Rocher Les Duex Freres.	35° 06.1´ N 1° 52.3´ 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*	-Jetee Nord, head.	35° 06.2´ N 1° 52.2´ W	**Oc.R.** period 4s lt. 3s, ec. 1s	56 **17**	8	Red column, tower; 52.	
22712 *E 6722.2*	-Head of spur, 0.4 km. ESE. of N. breakwater head.	35° 06.2´ N 1° 52.0´ W	**F.R.**	26 **8**	6	Red round metal column; 20.	Visible 262°-097°.
22716 *E 6726*	-Mole E.	35° 06.1´ N 1° 52.0´ W	**F.G.**	26 **8**	5	Black round metal column; 20.	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, octagonal building; 26.	
22721 *E 6757.2*	Ras Kebdana, N. breakwater.	35° 08.8´ N 2° 25.1´ W	**Iso.G.** period 6s	39 **12**	10	White tower; 23.	
22722 *E 6757.25*	-E. breakwater.	35° 08.8´ N 2° 25.2´ 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° 11.0´ N 2° 25.9´ W	**Fl.W.** period 7s fl. 1s, ec. 6s	170 **52**	8	White round tower, cupola, brown dwelling; 59.	Visible 080°-045°.
22728 *E 6756*	- -Mole, head.	35° 10.8´ N 2° 25.7´ W	**Fl.(2)R.** period 8s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	26 **8**	4	Metal pyramidal tower; 20.	
22732 *E 6752*	-Isla del Congreso. S. extremity.	35° 10.5´ 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, 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, green lantern, gray dwelling; 92.	
22742 *E 6763*	-Muelle Nordeste 3, SW. head.	35° 17.3´ N 2° 55.5´ W	**Fl.G.** period 4s fl. 1s, ec. 3s	23 **7**	5	Green round tower; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			MOROCCO				
22744 *E 6757.6*	-Puerto do Nador, de Beni Enzar, head.	35° 17.1´ N 2° 55.1´ 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 fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 7.5s	26 **8**	3	Red round tower, green band; 16.	
22754 *E 6765*	-Minor Embarkation Dock, breakwater, head.	5° 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 four-sided tower, 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° 00.5´ W	**Oc.(2+1)W.** period 12s lt. 1s, ec. 1s lt. 4s, ec. 1s lt. 4s, ec. 1s	160 **49**	9	White round tower; 13.	
22780 *E 0086*	Isla de Alboran, summit, about 54 km. N. of cape.	35° 56.3´ N 3° 02.1´ 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	Round tower, building; 66.	
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 tower, building; 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. 0.2s, ec. 2.3s fl. 0.2s, ec. 7.3s	495 **151**	**20**	White tower, black cupola; 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	White tower, post, red diamond daymark; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			MOROCCO				
22796 *E 6784.41*	--Rear, about 90 meters 274° from front.	35° 14.7´ N 3° 55.7´ W	**F.R.**	155 **47**	3	White tower, post, red diamond daymark; 16.	
22800 *E 6784.6*	--Range No 2, front.	35° 15.1´ N 3° 55.3´ W	**Oc.G.** period 6s	90 **27**	10	White tower, post, green diamond daymark; 16.	
22804 *E 6784.61*	---Rear, 140 meters 330° from front.	35° 15.1´ N 3° 55.3´ W	**Oc.G.** period 6s	150 **46**	10	White tower, post, green diamond daymark; 16.	
22808 *E 6785.2*	-E. breakwater.	35° 14.9´ N 3° 55.1´ W	**Iso.G.** period 4s	39 **12**	10	Green and white tower; 23.	
22816 *E 6788*	Penon de Velez de la Gomera (S.), on islet.	35° 10.7´ N 4° 17.8´ W	**Fl.(3)W.** period 20s fl. 1s, ec. 3s fl. 1s, ec. 3s fl. 1s, ec. 11s	154 **47**	12	Gray tower, dwelling; 20.	
22820 *E 6789*	**Jebha.**	35° 13.0´ N 4° 40.8´ W	**Fl.(2)W.** period 10s	125 **38**	**18**	White hut, black lantern; 13.	Visible 090°-270°.
22822 *E 6789.5*	**Oued Laou.**	35° 28.5´ N 5° 06.7´ W	**Oc.(2)W.** period 6s lt. 2.4s, ec. 1.6s lt. 0.4s, ec. 1.6s	492 **150**	**18**	White tower.	
22828 *E 6820*	**Tetouan,** AVIATION LIGHT (Sania Ramel).	35° 35.4´ N 5° 20.0´ W	**Fl.W.** period 5s	115 **35**	**54**	Tower; 52.	Occasional.
22832 *E 6824*	**Cabo Negro.**	35° 41.1´ N 5° 16.5´ W	**Fl.(2+1)W.** period 12s	443 **135**	**20**	White tower; 43.	
22836 *E 6825*	Port de Mediq, E. jetty, head.	35° 41.0´ N 5° 18.7´ 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 (bl. 3s, si. 57s).
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° 53.9´ 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, white building; 52.	**AIS** (MMSI No 992241093).
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 column, trapezoidal daymark; 20.	**AIS** (MMSI No 992241092).
22848 *D 2484*	-Dique de Levante), E. breakwater, head.	35° 53.7´ N 5° 18.5´ W	**Fl.R.** period 5s fl. 1s, ec. 4s	43 **13**	5	Red column, trapezoidal daymark; 23.	Visible 245°-210°.
22852 *D 2487*	-Dique de Poniente Spur, SE. corner.	35° 53.7´ N 5° 18.7´ W	**Fl.(2)G.** period 8s fl. 1s, ec. 1s fl. 1s, ec. 5s	23 **7**	1	Green truncated pyramidal tower; 13.	
22856 *D 2488*	-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 truncated pyramidal tower, green band; 13.	
22858 *D 2490.5*	--Breakwater.	35° 53.4´ N 5° 19.0´ 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	20 **6**	1	Green truncated pyramidal tower; 13.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			MOROCCO				
22860 *D 2490*	-Darsena de Pescadores, extremity of breakwater.	35° 53.5´ N 5° 18.9´ 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**	1	White truncated conical tower, red lantern; 20.	
22862 *D 2492*	-Muelle de Ribera.	35° 53.5´ N 5° 18.6´ W	**Fl.G.** period 4s fl. 1s, ec. 3s	23 **7**	1	Green truncated pyramidal tower; 10.	Fl.(2+1)G. 21s 7m 1M shown 190 meters ENE. Fl.(3)G. 9s 7m 1M shown 400 meters ENE.
22863 *D 2492.5*	-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 *D 2493*	**Punta Cires.**	35° 54.4´ 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°. Tall radar tower with white and red stripes nearby.
22868 *D 2496*	Ksar es Srhir, mole, head.	35° 50.9´ 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, metal tower; 36.	
	BAIE DE TANGER:						
22872 *D 2498*	**-Pointe Malabato.**	35° 49.0´ N 5° 44.9´ W	**Fl.W.** period 5s fl. 0.7s, ec. 4.3s	249 **76**	**22**	White square tower, house; 59.	
22880 *D 2500*	**-Le Charf (Mount Direction).**	35° 46.0´ 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	Brown building, metal cupola; 23.	G. 140°-174°30′, W.-200°, R.-225°, obsc.-140°. F.R. light on radio mast 1.1 miles SW.
22884 *D 2504*	-Yacht Quay, head.	35° 47.2´ N 5° 48.1´ W	**Iso.G.** period 4s	20 **6**	6	Green and white column; 13.	
22885 *D 2506*	-Inner harbor entrance, N. mole, head.	35° 47.2´ N 5° 48.3´ W	**F.G.**	13 **4**	6	Green and white column.	
22886 *D 2507*	--S. mole, head.	35° 47.2´ N 5° 48.3´ W	**F.R.**	13 **4**	6	Red and white column.	
22888 *D 2502*	-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.	
22892 *D 2503*	-South Mole (Quay 2), head.	35° 47.3´ N 5° 47.9´ W	**Oc.R.** period 4s	23 **7**	6	Red and white column; 20.	
22896 *D 2510*	**Cap Spartel.**	35° 47.5´ N 5° 55.4´ 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	312 **95**	**30**	Yellow square tower; 79.	Aeromarine light.
22900 *D 2512*	**Tanger Boukhalf** AVIATION LIGHT.	35° 43.4´ 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.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			MOROCCO				
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° 11.6′ N 6° 10.1′ W	**Fl.(2)W.** period 15s fl. 0.3s, ec. 3.4s fl. 0.3s, ec. 11s	256 **78**	**26**	White octagonal tower, 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° 12.0′ N 6° 08.3′ W	**Iso.W.** period 2s	33 **10**	4	Red post, white triangular daymark point up; 29.	Visible 352°-212°.
22924 *D 2524.1*	--Rear, 200 meters 102° from front.	35° 12.0′ N 6° 08.3′ W	**Iso.W.** period 2s	49 **15**	4	Red post, white triangular daymark point down; 42.	Visible 352°-212°.
22928 *D 2526*	-Inner Bar Range, front.	35° 11.9′ N 6° 08.9′ W	**F.R.**	66 **20**	2	White dwelling; 39.	Visible 015°30′-275°.
22932 *D 2526.1*	--Rear, on church 70 meters 145°30′ from front.	35° 11.9′ N 6° 08.9′ W	**F.R.**	95 **29**	2	Church tower; 62.	Visible 055°30′-235°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° 39.2′ N 6° 24.7′ W	**Fl.(2)W.** period 10s	223 **68**	12	Tower; 26	
	MEHDIYA:						
22940 *D 2540*	-Mehdia, Oued Sebu Range, front.	34° 15.6′ N 6° 40.1′ W	**F.G.**	49 **15**	12	Black and white pylon, green triangular daymark point up, 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**	Red octagonal tower, white cupola; 29.	Signal station.
22948 *D 2542*	-N. jetty, head.	34° 16.0′ N 6° 41.0′ 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° 15.8′ N 6° 41.1′ W	**Iso.G.** period 4s	52 **16**	6	White tower; 33.	
22956 *D 2543.2*	-Oued Sebou, S. jetty, root.	34° 15.7′ N 6° 40.6′ W	**F.W.**				
22960 *D 2544*	-Range No 2, front.	34° 16.0′ N 6° 39.9′ W	**F.R.**	8 **2**	7	Tide gauge.	Intensified 57°30'-62°30'.
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 57°30'-62°30'.
22968 *D 2544.5*	-Range No 3, front.	34° 16.3′ N 6° 38.6′ W	**F.G.**	16 **5**	7	White beacon.	Intensified 66°30' - 71°30'
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 66°30'-71°30'
22976 *D 2545*	-Range No 4, front (downstream).	34° 16.2′ N 6° 38.9′ W	**F.G.**	15 **5**	7	Black and white beacon.	Intensified 213°30'-218°30'.
22980 *D 2545.1*	--Rear, about 274 meters 216° from front.	34° 16.1′ N 6° 39.0′ W	**F.G.**	135 **41**	**16**	White beacon.	Intensified 213°30'-218°30'.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			MOROCCO				
22984 *D 2545.3*	-Range No 4, front (upstream).	34° 18.5′ N 6° 36.8′ W	**F.R.**	39 **12**		Red and white beacon.	Intensified 213°30'-218°30'. 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° 36.7′ W	**F.R.**	88 **27**		Red and white beacon.	Intensified 033°30'-038°30'.
22992 *D 2541*	**-Kenitra** AVIATION LIGHT.	34° 17.5′ N 6° 36.1′ W	**Al.Fl.(2+1)W.G.** period 10s W. fl. 0.5s, ec. 1s W. fl. 0.5s, ec. 3.5s G. fl. 1s, ec. 3.5s	180 **55**	**15**	Yellow tower, bulbous 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° 18.7′ N 6° 36.0′ 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° 18.7′ N 6° 35.7′ W	**F.R.**				
23008 *D 2546.3*	-Range No 6, front.	34° 18.7′ N 6° 35.1′ W	**F.R.**	20 **6**			
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.	
23016 *D 2547*	-Range No 7, front (downstream).	34° 48.4′ N 6° 34.6′ W	**F.R.**				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° 16.3′ N 6° 35.5′ 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° 35.1′ W	**Oc.G.** period 4.9s				
23036 *D 2554*	**Rabat.**	34° 01.9′ N 6° 50.7′ W	**Oc.(2)W.** period 6s lt. 1s, ec. 1s lt. 3s, ec. 1s	102 **31**	**16**	Yellow tower; 79.	F.R. on radio mast 12 miles NE. Unintensified 290°-020°.
23048 *D 2557*	-Rabat Sale, AVIATION LIGHT.	34° 02.6′ N 6° 45.6′ W	**Fl.W.** period 10s fl. 1s, ec. 9s			Control tower.	Occasional.
	MOHAMMEDIA:						
23054 *D 2558.4*	-Breakwater, head.	33° 44.0′ N 7° 23.2′ W	**Fl.(2)W.** period 10s	69 **21**	10	Green column.	
23056 *D 2559*	-Ben Chergui, first Range, front.	33° 43.7′ N 7° 20.6′ 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 post; 10.	W. 040°-076°, G.-126°, W.-220°.
23060 *D 2559.1*	--Rear, about 255 meters 130° from front.	33° 43.6′ N 7° 20.4′ W	**Oc.(2)W.** period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	79 **24**	**18**	White rectangular hut, dwelling; 26.	Intensified 119°30′-140°30′. Synchronized with front.
23068 *D 2563*	-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**	6	White tower, red bands; 20.	
23072 *D 2562*	-N. jetty, head.	33° 42.9′ N 7° 23.5′ W	**Iso.W.G.** period 4s	26 **8**	W. 9 G. 5	White tower,green bands; 16.	W. 240°-191°, G.-240°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			MOROCCO				
23076 *D 2561*	-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**	**18**	White post, black bands; 43.	Intensified 262°30'-267°30'.
23080 *D 2561.1*	--Rear, about 110 meters 265° from front.	33° 42.8´ N 7° 24.0´ W	**Oc.(3)W.** period 12s lt. 4.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s	46 **14**	**18**	White post, black bands; 43.	Intensified 262°30'-267°30'. Synchronized with front.
	CASABLANCA:						
23096 *D 2566*	**-Pointe d'Oukacha.**	33° 36.9´ N 7° 33.8´ W	**Fl.(2)W.** period 2s	95 **29**	**18**	White square tower, red lantern; 66.	Visible 110°-255°.
	--Auxiliary light.		**F.R.**	79 **24**	8		Visible 055°-110°.
23100 *D 2567*	**-Roches-Noires.**	33° 36.3´ N 7° 34.8´ W	**Oc.W.R.** period 4s lt. 3s, ec. 1s	69 **21**	W. **16** R. 12	White tower, red lantern; 62.	W. 080°-090°, R.-162°, W.-237°.
23104 *D 2570*	-Jetee Delure (Moulay Youssef), NE. spur.	33° 37.1´ N 7° 35.6´ W	**Oc.G.** period 6s	16 **5**	5	White hut, green bands; 10.	Visible 230°-070°.
23108 *D 2569*	-SW. jetty.	33° 36.8´ N 7° 35.4´ W	**Oc.(2)R.** period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	43 **13**	7	Red column, white square hut, red bands; 13.	
23112 *D 2570.2*	--S. spur.	33° 36.8´ N 7° 36.3´ W	**Oc.G.** period 4s	20 **6**	5	Green column, white square hut, green bands; 13.	Visible 238°-070°. **Horn:** 2 bl. ev. 60s (bl. 2s, si. 2s, bl. 6s, si. 50s).
23114 *D 2569.2*	-Container Terminal , NE. corner.	33° 36.7´ N 7° 35.6´ W	**Fl.(3)R.** period 12s				
23116 *D 2572*	-Jetee Transversale, outer head.	33° 36.6´ N 7° 36.3´ W	**Oc.(2)R.** period 4s	23 **7**	6	Red column, white square hut, red bands; 13.	Visible 026°-257°.
23128 *D 2568.1*	-Harbor.	33° 36.2´ N 7° 36.6´ 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. 8	White square silo, red stripes; 151.	Obscured by silo 138°-153°. W. 110°°-245°, R.-285°.
23132 *D 2574*	**El Hank.**	33° 36.6´ N 7° 39.3´ 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**	**30**	White round tower; 161.	
23136 *D 2576*	**Anfa (Cazes)** AVIATION LIGHT.	33° 33.6´ N 7° 39.9´ W	**U.Q.(2)W.** period 11s fl. 0.1s, ec. 0.1s fl. 0.1s, ec. 10.7s	262 **80**	**17**	Metal framework tower; 98.	Occasional.
23140 *D 2582*	**Pointe d'Azemmour.**	33° 20.3´ N 8° 18.2´ 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 *D 2588*	**-Sidi Bou Afi.**	33° 15.0´ N 8° 31.0´ W	**Fl.W.** period 5s fl. 0.2s, ec. 4.8s	213 **65**	**30**	White tower, black top; 167.	
23148 *D 2584*	-Sidi Mesbah, about 6.5 km. E. of town.	33° 14.6´ N 8° 26.2´ 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. 094°-151°, W.-188°.
23150 *D 2587.5*	-Sidi Daoui.	33° 15.8´ N 8° 30.6´ W	**Fl.(2)W.** period 10s	46 **14**	10	White tower, black bands; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			MOROCCO				
23152 *D 2586*	-N. jetty, head.	33° 15.4′ N 8° 29.7′ W	**Iso.W.G.** period 4s	20 **6**	W. 13 G. 9	Black post, white hut, green top; 13.	G. 115°-245°, W.-115°.
23156 *D 2587*	-S. jetty, head.	33° 15.4′ N 8° 29.9′ W	**V.Q.R.**	33 **10**	7	Column, white hut, red top; 16.	
23160 *D 2590*	**El Jorf Lasfar.**	33° 09.7′ N 8° 37.7′ W	**Fl.(3)W.** period 12s	102 **31**	**15**	White square tower, black top; 56.	
23162 *D 2590.5*	-Entrance.	33° 09.0′ N 8° 36.9′ W	**Dir.Fl.(3)W.R.G.** period 6s		6	Column.	G. 041°-042°, W.-044°, R.-045°.
23164 *D 2591*	-W. jetty, head.	33° 07.4′ N 8° 38.8′ W	**Fl.(2)R.** period 10s	59 **18**	8	Round concrete tower; 33.	
23168 *D 2591.2*	-Breakwater, extremity.	33° 07.6′ N 8° 38.5′ W	**F.R.**	49 **15**	8	Round concrete tower; 33.	
23172 *D 2591.4*	-E. jetty, head.	33° 07.6′ N 8° 38.4′ W	**Fl.G.** period 4s fl. 1s, ec. 3s	46 **14**	8	Tower; 33	
23173 *D 2591.8*	Lalla Fatna.	32° 48.0′ N 8° 57.8′ W	**Fl.(2+1)W.** period 12s		**20**	Pylon.	
23176 *D 2592*	**Beddouza**.	32° 32.4′ N 9° 16.9′ W	**Fl.(2)W.** period 10s fl. 0.4s, ec. 1.6s fl. 0.4s, ec. 7.6s	213 **65**	**22**	Yellow square tower, green band, flanked by four towers; 62.	
	SAFI:						
23180 *D 2595*	**-Pointe de la Tour,** about 2.4 km. 293° from Sidi Bou Zid Mosque.	32° 19.8′ N 9° 16.7′ W	**Fl.(4)W.** period 12s	295 **90**	**18**	White four-sided tower, building; 39.	Visible 302°-164°. F.R. lights on radio mast 0.9 km. NNE.
23184 *D 2595.4*	-0.4 km. ENE. from jetee Transversale, Nord.	32° 18.9′ N 9° 15.0′ W	**Fl.(2)W.R.G.** period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	36 **11**	W. 14 R. 13 G. 13	Red beacon, red square daymark; 26.	G. 085°-097°, W.-103°, R.-113°.
23188 *D 2599*	-Inner entrance, directional light 150°.	32° 18.4′ N 9° 14.9′ W	**Oc.W.** period 4s	33 **10**	2	White column; 30.	Visible 147°30′-152°30′.
23196 *D 2596*	-Grande Jetee, head.	32° 18.8′ N 9° 15.4′ W	**Iso.G.** period 4s	36 **11**	14	White framework tower, green top; 36.	**Radar reflector.**
23200 *D 2596.2*	--Elbow.	32° 18.7′ N 9° 15.2′ W	**F.G.**	19 **6**	3	White and green support; 16.	Visible 133°-335°.
23201 *D 2596.6*	--Spur, W. side of entrance.	32° 18.5′ N 9° 15.1′ W	**F.G.**	33 **10**	6		
23204 *D 2598*	-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 *D 2600*	-Muelle de Fosfatos, head.	32° 18.6′ N 9° 15.0′ W	**F.R.**	23 **7**	6	White pillar, red top; 16.	
23214 *D 2601*	**Cap Hadid.**	31° 41.9′ N 9° 39.8′ W	**Fl.(2)W.** period 15s	157 **48**	**20**	Framework tower; 98.	
	ESSAOUIRA:						
23216 *D 2602*	-Sidi Magdul.	31° 29.6′ N 9° 45.8′ 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 *D 2602.1*	-Jetee, SW. head.	31° 30.4′ N 9° 46.6′ W	**Q.W.**	26 **8**	12	White column, black band; 29.	Visible 208°-108°. **Horn:** 1 bl. ev. 60s (bl. 3s, si. 57s).
23224 *D 2602.2*	-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 hut; 6.	Visible 187°-360°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			MOROCCO				
23228 *D 2602.4*	-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 hut; 6.	
23232 *D 2604*	**Cap Sim.**	31° 23.8´ N 9° 49.8´ 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**	Fort, turret, white towers, green bands; 66.	Reserve light Fl.(3)W. 12s.
23236 *D 2608*	**Cap Rhir.**	30° 38.0´ N 9° 52.9´ W	**Fl.W.** period 5s fl. 0.4s, ec. 4.6s	279 **85**	**22**	White tower; 135.	
	AGADIR:						
23244 *D 2611*	-W. jetty, head.	30° 25.0´ N 9° 37.9´ W	**Oc.(2)R.** period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	26 **8**	8	Square tower, red band; 23.	**Horn:** 2 bl. ev. 30s (bl. 2s, si. 3s, bl. 2s, si. 23s).
23248 *D 2612*	-SE. breakwater, head.	30° 25.1´ N 9° 37.8´ W	**Fl.(2)G.** period 6s	16 **5**	4	White post, green and white hut; 16.	
23253 *D 2613*	-Port Anza, W. breakwater, head.	30° 25.1´ N 9° 38.5´ W	**Fl.R.** period 4s fl. 1.5s, ec. 2.5s		5	White round tower, red band; 28.	
23254 *D 2613.2*	--NW. jetty, head.	30° 25.3´ N 9° 38.4´ W	**Fl.(4)R.** period 15s	36 **11**	5	Red post; 20.	
	ESSAOUIRA:						
23254.5 *D 2613.6*	--S. breakwater, head.	30° 25.2´ N 9° 38.3´ W	**Fl.G.** period 4s	36 **11**	5	Green post; 20.	
23255 *D 2614*	**Inezgane** AVIATION LIGHT.	30° 22.7´ N 9° 33.3´ W	**Fl.W.** period 3s	118 **36**	**17**	Support; 56	
23255.5 *D 2615*	**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 *D 2616*	**-Sidi Ifni.**	29° 22.5´ N 10° 10.7´ 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 yellow tower, building; 43.	
23257 *D 2616.2*	--Overhead transporter, head.	29° 21.9´ N 10° 12.1´ W	**Fl.W.** period 4s fl. 1s, ec. 3s	33 **10**	5		
23258 *D 2616.4*	--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 *D 2616.6*	**Cap Draa.**	28° 40.5´ N 11° 07.5´ W	**Fl.(2)W.** period 10s	285 **87**	**25**	White tower, black bands; 98.	Reserve light range 16M.
23264 *D 2617*	**Cabo Nachtigal (Tan Tan).**	28° 29.8´ N 11° 20.2´ W	**Fl.W.** period 5s	118 **36**	**15**	White square tower, red bands; 23.	Visible 305°-215°.
23270 *D 2619*	**Tarfaya.**	27° 54.8´ N 12° 56.5´ W	**Fl.(2)W.** period 10s		**25**	Masonry tower; 43.	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 *D 2712*	-Ponta Negra, S. point of island.	39° 40.2′ N 31° 06.9′ W	**Fl.W.** period 5s fl. 1s, ec. 4s	72 **22**	6	White structure, red lantern; 10.	
23282 *D 2713*	-Porto da Casa, pier, head.	39° 40.3′ N 31° 06.6′ W	**Fl.R.** period 4s fl. 1s, ec. 3s	26 **8**	3	White column, red bands; 13.	
23284 *D 2714*	-Canto de Carneira, NE. point.	39° 43.0′ N 31° 05.3′ W	**Fl.W.** period 6s fl. 0.5s, ec. 5.5s	781 **238**	9	White column, red bands; 13.	
	ILHA DAS FLORES:						
23288 *D 2704*	**-Ponta das Lajes.**	39° 22.5′ N 31° 10.6′ W	**Fl.(3)W.** period 28s fl. 0.3s, ec. 4s fl. 0.3s, ec. 4s fl. 0.3s, ec. 19.1s	289 **88**	**26**	White tower, red cupola, dwelling; 52.	Visible 263°-054°.
23289 *D 2705*	--Porto das Lajes.	39° 22.7′ N 31° 09.9′ W	**Fl.(2)R.** period 12s fl. 0.5s, ec. 1s fl. 0.5s, ec. 10s	49 **15**	9	White column, red bands.	
23292 *D 2706*	-Faja Grande, W. side of island.	39° 27.5′ N 31° 15.8′ W	**Fl.W.** period 5s fl. 1s, ec. 4s	52 **16**	4	White column, red bands; 20.	F.R. lights are shown at the tops of radio masts at Lajes.
23296 *D 2703*	-Porto das Pocas Range, front.	39° 27.1′ N 31° 07.6′ W	**Fl.R.** period 3s fl. 1s, ec. 2s	30 **9**	5	White post, red bands; 16.	
23300 *D 2703.1*	--Rear, 40 meters 284°36′ from front.	39° 27.1′ N 31° 07.7′ W	**Fl.R.** period 3s fl. 1s, ec. 2s	59 **18**	5	White post, red bands; 16.	
23304 *D 2702*	-Ponta Santa Cruz, E. side of island.	39° 27.3′ N 31° 07.5′ W	**Fl.R.** period 5s fl. 1s, ec. 4s	46 **14**	4	White column, red bands; 20.	Visible 156°-308°.
23308 *D 2702.4*	-Porto Velho Range, front.	39° 27.3′ N 31° 07.5′ W	**L.Fl.G.** period 5s fl. 2s, ec. 3s	52 **16**	4	White post, red bands, wall.	
23312 *D 2702.41*	--Rear, 17 meters 261°36′ from front.	39° 27.2′ N 31° 07.3′ W	**L.Fl.G.** period 5s fl. 2s, ec. 3s	62 **19**	4	White post, red bands, dwelling.	
23316 *D 2708*	**-Ponta do Albarnaz.**	39° 31.2′ N 31° 14.1′ W	**Fl.W.** period 5s fl. 0.2s, ec. 4.8s	331 **101**	**22**	White tower, red cupola, structure; 49.	Visible 035°-258°.
	ILHA DO FAIAL:						
23318 *D 2693*	-Almoxarife cables, beach.	38° 33.1′ N 28° 36.6′ W	**Fl.(2)R.** period 8s fl. 1s, ec. 1s fl. 1s, ec. 5s	33 **10**	9	White column, red bands; 13.	Marks submarine cable area. Range by day 5M.
23320 *D 2694*	-Horta, breakwater, head.	38° 32.0′ N 28° 37.3′ W	**Fl.R.** period 3s fl. 1s, ec. 2s	69 **21**	11	White metal structure, red cupola; 49.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			ACORES (AZORES) (P.)				
23324 *D 2696*	--Sea wall, Boa Viagem.	38° 32.3′ N 28° 37.5′ W	**Iso.W.R.G.** period 6s	43 **13**	W. 9 R. 6 G. 6	White post, red bands, red diamond daymark; 20.	G. 276°-282°, W.-288°, R.-294°.
23328 *D 2697*	-Harbor Range, front.	38° 31.7′ N 28° 37.5′ W	**Iso.G.** period 2s	46 **14**	2	White post, red bands, red "X" daymark; 26.	
23332 *D 2697.1*	--Rear, 12 meters 195°18′ from front.	38° 31.7′ N 28° 37.5′ W	**Iso.G.** period 2s	52 **16**	2	White post, red bands, red "X" daymark: 30.	
23336 *D 2698*	-Feteira Range, front.	38° 31.0′ N 28° 41.0′ W	**Oc.G.** period 6s lt. 4s, ec. 2s	26 **8**	5	White column, red bands; 10.	
23340 *D 2698.1*	--Rear, 340°42′ from front.	38° 31.0′ N 28° 41.0′ W	**Oc.G.** period 6s lt. 4s, ec. 2s	30 **9**	5	White column, red bands; 16.	
23342 *D 2697.5*	-Pim cables, Porto Pim.	38° 31.5′ N 28° 38.4′ W	**Fl.(2)R.** period 8s fl. 1s, ec. 1s fl. 1s, ec. 5s	30 **9**	9	White column, red bands; 13.	Visible 345°-013°. Marks submarine cable area. Range by day 2M.
23344 *D 2692*	-Ponta da Ribeirnha.	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	White column; 20.	
23346 *D 2700*	-Ponta dos Cedros.	38° 38.3′ N 28° 43.3′ W	**Fl.W.** period 7s fl. 1s, ec. 6s	489 **149**	12	White structure, lantern; 13.	
23348 *D 2699*	-Vale Formoso, SW. side of island.	38° 34.9′ N 28° 48.6′ W	**L.Fl.(2)W.** period 10s fl. 2s, ec. 2s fl. 2s, ec. 4s	367 **112**	13	White tower, red lantern; 46.	
	ILHA DO PICO:						
23360 *D 2687.2*	-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 *D 2687.5*	-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 bands; 26.	
23368 *D 2687.51*	--Rear, 128 meters 138°54′ from front.	38° 31.9′ N 28° 31.8′ W	**Fl.G.** period 6s fl. 1.5s, ec. 4.5s	68 **21**	5	White post, red bands; 26.	
23372 *D 2684*	-Areia Larga Anchorage Range, front.	38° 31.6′ N 28° 32.2′ W	**Iso.R.** period 4s	30 **9**	7	White post, red bands, red lantern.	
23376 *D 2684.1*	--Rear, 20 meters 082°12′ from front.	38° 31.6′ N 28° 32.1′ W	**Iso.R.** period 4s	43 **13**	6	White post, red bands, red lantern; 13.	
23377 *D 2691.4*	Calhau Range, front.	38° 29.2′ N 28° 32.4′ W	**Oc.R.** period 3s lt. 2s, ec. 1s	32 **10**	6	White post, red bands, red lantern; 20.	
23377.1 *D 2691.41*	-Rear, 46 meters 121°54′ from front.	38° 29.2′ N 28° 32.3′ W	**Oc.R.** period 3s lt. 2s, ec. 1s	49 **15**	6	Post, red lantern.	
23380 *D 2691*	-Ponta do Sao Mateus.	38° 25.3′ N 28° 26.9′ W	**Fl.W.** period 5s fl. 1s, ec. 4s	108 **33**	13	White tower, lantern; 43.	Visible 284°-118°.
23385 *D 2690.9*	-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 column, red bands; 13.	Visible 315°-010°. Marks submarine cable area.
23400 *D 2690.15*	-Santa Cruz das Ribeiras, pier, head.	38° 24.3′ N 28° 11.2′ W	**Fl.R.** period 3s fl. 1s, ec. 2s	26 **8**	3	White post, red bands; 10.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			ACORES (AZORES) (P.)				
23404 *D 2690*	**-Ponta da Ilha.**	38° 24.8′ N 28° 01.8′ 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 tower, green cupola, dwelling; 62.	Visible 166°-070°.
23408 *D 2688*	-Cais do Pico, N. side of island.	38° 31.7′ N 28° 19.2′ W	**Oc.R.** period 6s lt. 4s, ec. 2s	36 **11**	6	White structure, red lantern; 16.	
23410 *D 2688.2*	--On mole.	38° 31.9′ N 28° 19.1′ W	**Fl.G.** period 3s fl. 1s, ec. 2s	39 **12**	2	White column, green bands; 13.	Visible 120°-030°.
23420 *D 2690.02*	-Manhenha Range, front.	38° 24.6′ N 28° 02.2′ W	**Fl.R.** period 5s fl. 1s, ec. 4s	33 **10**	6	Red post; 7.	
23424 *D 2690.03*	--Rear, 19 meters 298°54′ from front.	38° 24.6′ N 28° 02.2′ W	**Fl.R.** period 5s fl. 1s, ec. 4s	52 **16**	3	Red post, building; 13.	
23428 *D 2689*	-Prainha.	38° 28.5′ N 28° 12.0′ W	**Fl.R.** period 4s fl. 1s, ec. 3s	39 **12**	7	Red column, white bands; 10.	Visible 128°-287°.
23432 *D 2689.4*	-Santo Amaro Range, front.	38° 27.3′ N 28° 10.0′ W	**Oc.R.** period 6s lt. 4s, ec. 2s	23 **7**	7	Red post, white bands, red lantern; 20.	
23436 *D 2689.41*	--Rear, 30 meters 198°48′ from front.	38° 27.4′ N 28° 10.1′ W	**Oc.R.** period 6s lt. 4s, ec. 2s	39 **12**	7	Red post, white bands, red lantern; 20.	
23440 *D 2690.1*	-Calheta de Nesquim Range, front.	38° 24.2′ N 28° 04.5′ W	**Fl.R.** period 5s fl. 1.5s, ec. 3.5s	42 **13**	7	White structure, red lantern; 3.	
23444 *D 2690.11*	--Rear, 30 meters 329°48′ from front.	38° 24.2′ N 28° 04.7′ W	**Fl.R.** period 5s fl. 1.5s, ec. 3.5s	59 **18**	7	Metal structure, red lantern; 20.	
	ILHA DE SAO JORGE:						
23448 *D 2683*	-Ponta Rosais.	38° 45.2′ N 28° 18.7′ W	**Fl.(2)W.** period 10s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	928 **283**	8	Gray tower, dwelling; 89.	
23456 *D 2682.2*	--Cais das Velas.	38° 40.7′ N 28° 12.3′ W	**Fl.R.** period 5s fl. 0.5s, ec. 4.5s	52 **16**	7	White tower, red bands; 23.	
23457 *D 2682.3*	--Cabos Velas.	38° 40.7′ N 28° 12.3′ W	**Fl.(2)R.** period 8s fl. 1s, ec. 1s fl. 1s, ec. 5s	43 **13**	9	White column, red bands; 16.	Visible 033°-061°. Marks submarine cable area. Range by day 2M.
23460 *D 2682.4*	--Central anchorage Range, front.	38° 40.7′ N 28° 12.5′ W	**Iso.R.** period 5s	43 **13**	6	White column, red bands; 30.	
23464 *D 2682.5*	---Rear, Ermida do Livramento, W. of the port, 300° from front.	38° 40.9′ N 28° 12.9′ W	**Oc.R.** period 6s lt. 5s, ec. 1s	180 **55**	7	Chapel, red lantern.	With Porto das Velas Light bearing 348° indicates anchorage.
23466 *D 2681.8*	-Quimada.	38° 40.2′ N 28° 11.5′ W	**Fl.W.** period 5s fl. 1.5s, ec. 3.5s	125 **38**	10	White column, red bands; 20.	
23468 *D 2681.5*	-Urzelina.	38° 38.6′ N 28° 07.7′ W	**Fl.R.** period 6s fl. 1.5s, ec. 4.5s	33 **10**	6	Yellow metal structure, white bands, red lantern; 13.	
23472 *D 2680.2*	-Ponta da Forcada.	38° 35.7′ N 27° 58.9′ W	**Fl.W.** period 3s fl. 1s, ec. 2s	213 **65**	6	White column, red bands; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			ACORES (AZORES) (P.)				
23477 *D 2681.2*	--Mole.	38° 36.1′ N 28° 00.6′ W	**Fl.R.** period 3s fl. 1s, ec. 2s	43 **13**	10	White column, red bands; 20.	
23480 *D 2680*	**-Ponta do Topo.**	38° 32.9′ N 27° 45.2′ W	**Fl.(3)W.** period 20s fl. 0.1s, ec. 3.2s fl. 0.1s, ec. 3.2s fl. 0.1s, ec. 13.3s	200 **61**	**20**	White tower, red cupola, dwellings; 52.	Visible 133°-033°.
23482 *D 2683.5*	-Norte Grande.	38° 40.8′ N 28° 03.0′ W	**Fl.W.** period 6s fl. 1s, ec. 5s	115 **35**	12	White column, red bands; 16.	
23484 *D 2670*	**-Ponta do Carapacho.**	39° 00.8′ N 27° 57.3′ W	**Fl.(2)W.** period 10s fl. 1s, ec. 1s fl. 1s, ec. 7s	620 **189**	**15**	Gray tower, red cupola, dwelling; 46.	Visible 165°-098°.
	ILHA GRACIOSA:						
23488 *D 2674*	-Fort do Santo, N. side of island.	39° 05.3′ N 28° 00.5′ W	**Fl.R.** period 4s fl. 1s, ec. 3s	23 **7**	6	Red metal structure, red lantern; 20.	
23489 *D 2672.3*	-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 column, red bands; 13.	Visible 292°54′-320°54′.
23489.1 *D 2672.35*	--Rear, 306°54′ from front.	39° 03.2′ N 27° 58.2′ W	**Iso.R.** period 4s	49 **15**	6	White column, red bands; 30.	Visible 292°54′-320°54′.
23490 *D 2672.5*	-Ponta da Rochela.	39° 03.1′ N 27° 58.0′ W	**Fl.G.** period 3s fl. 1s, ec. 2s	46 **14**	9	White tower, green bands; 13.	
23491 *D 2672.7*	-Praia.	39° 03.1′ N 27° 58.3′ W	**Fl.(2)R.** period 8s fl. 1s, ec. 1s fl. 1s, ec. 5s	20 **6**	9	Red lantern.	Visible 264°-292°. Marks submarine cable area. Range by day 2M.
23496 *D 2677*	-Folga, on headland.	39° 01.1′ N 28° 00.1′ W	**L.Fl.W.** period 5s fl. 2s, ec. 3s	102 **31**	4	White post, red bands, dwelling; 16.	
23500 *D 2676*	**-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 tower, black bands, red cupola; 75.	Visible 029°-031°, 035°-251° and 267°-287°.
	ILHA TERCEIRA:						
23504 *D 2668*	-Ponta da Serreta.	38° 45.9′ N 27° 22.4′ W	**Fl.W.** period 6s fl. 1s, ec. 5s	328 **100**	12	White tower, red bands; 46.	
23508 *D 2669*	-Biscoitos.	38° 48.0′ N 27° 15.5′ W	**Oc.W.** period 6s lt. 4s, ec. 2s	43 **13**	9	White structure, red bands, red lantern; 10.	
23512 *D 2660*	-Vila Nova.	38° 46.9′ N 27° 08.5′ W	**Iso.W.** period 6s	36 **11**	9	Structure, red lantern; 7.	
23516 *D 2661*	**-Lajes** AVIATION LIGHT.	38° 45.5′ N 27° 04.7′ W	**Al.Fl.W.G.** period 10s	436 **133**	W. **28** G. **23**		
23524 *D 2662*	-Praia da Vitoria, N. mole, head.	38° 43.6′ N 27° 03.1′ W	**Fl.W.** period 5s fl. 1s, ec. 4s	66 **20**	10	White tower, black bands; 30.	
23525 *D 2662.5*	--S. mole, head.	38° 43.2′ N 27° 02.9′ W	**Fl.R.** period 3s fl. 1s, ec. 2s	75 **23**	8	White tower, red bands, red lantern; 52.	
23528 *D 2663.5*	-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 structure, red lantern; 10.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			ACORES (AZORES) (P.)				
23532 *D 2664*	**-Ponta das Contendas.**	38° 38.6′ 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, dwelling; 43.	W. 220°-020°, R.-044°, W.-072°, R.-093°, obscured 073°-079°.
23536 *D 2665*	-Porto Judeu.	38° 38.9′ N 27° 07.0′ W	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s	30 **9**	3	White column, red bands; 20.	
23540 *D 2666*	-Bahia Angra, Ponte de Sto. Antonio (Monte Brasil).	38° 38.6′ N 27° 13.0′ W	**Oc.W.R.** period 10s lt. 6s, ec. 4s	92 **28**	12	White column, red bands; 16.	R. 191°-295°, W.-057°. 2 Oc.R. 2s and 2 F.R. on radio mast 1.5 miles 350°.
23544 *D 2666.2*	--Angra do Heroismo entrance Range, front.	38° 39.2′ N 27° 13.1′ W	**Fl.R.** period 4s fl. 1s, ec. 3s	69 **21**	7	Red post; 7.	
23548 *D 2666.21*	---Rear, 505 meters 340°54′ from front.	38° 39.5′ N 27° 13.2′ W	**Oc.R.** period 6s lt. 4s, ec. 2s	203 **62**	7	Yellow structure, red lantern; 7.	
23556 *D 2666.5*	--Porto Pipas, mole, head.	38° 39.0′ N 27° 12.9′ W	**Fl.G.** period 3s fl. 1s, ec. 2s	46 **14**	6	Green column, white bands; 16.	Fl.(2)R. 6s 9m 3M light marks marina entrance 150 meters NW.
23558 *D 2666.1*	-Cabos Silveira.	38° 39.4′ N 27° 14.0′ W	**Fl.(2)R.** period 8s fl. 1s, ec. 1s fl. 1s, ec. 5s	72 **22**	9	White post, red bands; 13.	Visible 024°-052°. Marks submarine cable area. Range by day 2M.
23560 *D 2666.7*	-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 *D 2667*	-Cinco Ribeiras.	38° 40.5′ N 27° 19.7′ W	**L.Fl.W.** period 6s fl. 2s, ec. 4s	75 **23**	10	White structure, red bands, red lantern; 7.	
	ILHA DE SAO MIGUEL:						
23568 *D 2655*	**-Ponta da Ferraria.**	37° 51.2′ N 25° 51.0′ 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, dwelling; 59.	Visible 339°-174°. Signal station.
23572 *D 2655.4*	-Mosteiros.	37° 53.5′ N 25° 49.3′ W	**Oc.R.** period 3s lt. 2s, ec. 1s	33 **10**	6	White structure, red bands, red latern.	Visible 090°-155°.
23576 *D 2655.6*	-Bretanha.	37° 53.9′ N 25° 45.0′ W	**L.Fl.W.** period 6s fl. 2s, ec. 4s	230 **70**	4	Red lantern; 3.	
23580 *D 2654*	**-Santa Clara.**	37° 44.0′ N 25° 41.2′ W	**L.Fl.W.** period 5s fl. 2s, ec. 3s	88 **27**	**15**	Red metal structure, red cupola; 26.	Visible 282°-102°.
	-Ponta Delgada Harbor:						
23584 *D 2647*	--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 *D 2648.5*	--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°30′-306°30′, W.-311°30′, R.-316°30′. Range by day 1M.
23594 *D 2648*	--Marina.	37° 44.4′ N 25° 39.5′ W	**Fl.G.** period 3s fl. 1s, ec. 2s	43 **13**	10	White column, green bands; 20.	
23595.1 *D 2648.7*	--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		3	White column, red bands; 10.	

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			ACORES (AZORES) (P.)				
23595.2 *D 2648.72*	---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		3	White column, green bands; 10.	
23598 *D 2652*	--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°. Range by day 1M.
23599 *D 2649.5*	--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; 16.	
23601 *D 2649.7*	--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		3	White column, red bands; 10.	
23604 *D 2654.2*	-AVIATION LIGHT, at airport.	37° 44.6′ N 25° 42.5′ W	**Al.Fl.W.G.** period 10s	276 **84**	W. **28** G. **23**	Control tower.	Visible 282°-124°.
23606 *D 2645.5*	-Cabos Populo, Populo Beach.	37° 45.0′ N 25° 37.0′ W	**Fl.(2)R.** period 8s fl. 1s, ec. 1s fl. 1s, ec. 5s	30 **9**	9	White column, red bands; 13.	Visible 349°-031°. Marks submarine cable area. Range by day 2M.
23608 *D 2646*	-Lagoa.	37° 44.6′ N 25° 34.5′ W	**Fl.R.** period 3s fl. 1s, ec. 2s	30 **9**	6	White column, red bands; 13.	
23609 *D 2645.45*	-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 column, red bands; 13.	Visible 339°-007°. Marks submarine cable area. Range by day 2M.
23612 *D 2645*	-Porto da Caloura, mole, S. extremity.	37° 42.9′ N 25° 29.7′ W	**Fl.W.** period 4s		9	White structure, red bands, white lantern; 7.	2 Oc. G. 3s lights in line 332°24′ lead into port.
	-Vila Franca do Campo:						
23626 *D 2642.5*	--Marina, pier, N. head.	37° 42.8′ N 25° 25.8′ W	**Fl.G.** period 4s fl. 1s, ec. 3s	39 **12**	9	White column, green bands; 23.	
23627 *D 2642.4*	----S. head.	37° 42.9′ N 25° 25.7′ W	**Fl.R.** period 4s fl. 1s, ec. 3s	39 **12**	9	White column, red bands; 23.	
23628 *D 2642*	**-Ponta da Garca.**	37° 42.9′ N 25° 22.2′ W	**L.Fl.W.R.** period 5s fl. 2s, ec. 3s	331 **101**	W. **16** R. 13	Gray tower, red cupola, dwelling; 46.	W. 240°-080°, R.-100°.
23630 *D 2641*	-Ribeira Quente, mole.	37° 44.0′ N 25° 17.9′ W	**Fl.G.** period 4s fl. 1s, ec. 3s	20 **6**	5	White tower, green bands; 10.	
23636 *D 2640*	**-Ponta do Arnel** AVIATION LIGHT, E. side of island.	37° 49.4′ N 25° 08.1′ W	**Fl.W.** period 5s fl. 0.2s, ec. 4.8s	217 **66**	**25**	White tower, red cupola, dwelling; 49.	Visible 157°-355°. Reserve light range 21M.
23640 *D 2659*	-Ponta do Cintrao.	37° 50.7′ N 25° 29.3′ W	**Fl.(4)W.** period 10s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 3.2s	387 **118**	14	Gray tower, red cupola, dwelling; 46.	
23644 *D 2659.4*	-Port Formoso.	37° 49.3′ N 25° 25.6′ W	**Fl.W.** period 4s fl. 1.5s, ec. 2.5s		6	White structure, red bands, red lantern; 10.	
23648 *D 2656*	-Porto de Capelas, N. side of island.	37° 50.5′ 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.)				
23650 *D 2656.9*	-Rabo de Peixe, mole.	37° 49.0´ N 25° 35.2´ W	**Fl.R.** period 5s fl. 1s, ec. 4s	36 **11**	6	White tower, red bands; 9.	Visible 338°-252°.
	ILHA DE SANTA MARIA:						
23664 *D 2632*	**-Goncalo Velho.**	36° 55.8´ N 25° 01.0´ 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 tower, red cupola, 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	Wall, white lantern.	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 structure, red bands, lantern; 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	White post, red bands; 10.	
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	White tower, red bands; 26.	
23680 *D 2634*	-AVIATION LIGHT, about 3.7 km. 349° from Ponta do Malmerendo.	36° 58.4´ N 25° 09.9´ 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° 00.2´ N 25° 09.5´ W	**Fl.W.** period 3s fl. 1s, ec. 2s	43 **13**	10	White post, red bands; 16.	
23688 *D 2633.71*	--Rear, 25 meters 173°24′ from front.	37° 00.2´ N 25° 09.5´ W	**L.Fl.W.** period 6s fl. 2s, ec. 4s	69 **21**	10	White post, red bands; 16.	
23692 *D 2633*	-Ponta do Norte.	37° 00.8´ 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**	12	White structure, red bands, lantern; 10.	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, white house, blue arches, red lantern; 20.	
23700 *D 2632.4*	--Rear, about 64 meters 273°18′ from front.	36° 59.5´ N 25° 03.4´ W	**Oc.R.** period 7.5s lt. 4s, ec. 3.5s	121 **37**	6	Dwelling, red lantern; 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	White column, red bands; 20.	
	ILHEUS FORMIGAS:						
23704 *D 2638*	-Formigas, on a rock about 0.5 km. S. of islet.	37° 16.1´ N 24° 46.6´ W	**Fl.(2)W.** period 12s fl. 0.5s, ec. 1s fl. 0.5s, ec. 10s	72 **22**	12	White tower, lantern; 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° 52.2´ N 17° 09.8´ W	**Fl.W.R.** period 5s fl. 1s, ec. 4s	213 **65**	W. 10 R. 8	Dwelling, lantern; 10.	R. 116°-127° over Baixas do Moniz, W.-116°.
23712 *D 2752*	**-Ponta do Pargo.**	32° 48.8´ N 17° 15.7´ 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**	White tower, red cupola, dwelling; 46.	
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 lantern; 10.	
23720 *D 2746*	-Ribeira Brava, S. side of island.	32° 40.2´ N 17° 03.8´ W	**Fl.R.** period 5s fl. 1.5s, ec. 3.5s	112 **34**	9	Red hut.	
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 tower, white column, red bands; 7.	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, lantern; 7.	Fl.R. 2.4s marks dolphin E.
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. Range by day 2M.
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	Wall, red bands, lantern.	Visible 330°-025°. Marks submarine cable area. Range by day 2M.
	-Funchal:						
23728 *D 2738*	- -Breakwater, head.	32° 38.5´ N 16° 54.4´ W	**Fl.R.** period 5s fl. 1s, ec. 4s	49 **15**	8	White tower, red bands; 16.	Visible 275°-075°. F.R. 3M and F.G. 2M mark heads of breakwaters in Marina to NW. **Radar reflector.**
23732 *D 2728*	Sao Roque.	32° 42.9´ N 16° 45.8´ W	**L.Fl.W.R.** period 5s fl. 2s, ec. 3s	39 **12**	W. 9 R. 7	White column, red bands, red structure; 13.	R. 230°-265°, W.-230°.
23736 *D 2730*	- -Cais Machico.	32° 43.1´ N 16° 45.5´ W	**Fl.(3)G.** period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4.5s	23 **7**	6	Green tower; 7.	
23740 *D 2726*	**-Ponta de Sao Lourenco.**	32° 43.8´ N 16° 39.4´ W	**Fl.W.** period 10s fl. 1s, ec. 9s	338 **103**	**20**	White tower, red cupola, white dwelling; 33.	
23744 *D 2755*	**-Sao Jorge.**	32° 50.1´ N 16° 54.3´ W	**L.Fl.W.** period 5s fl. 2s, ec. 3s	889 **271**	**15**	Tower, red cupola, dwelling; 46.	
23746 *D 2755.5*	-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. Range by day 2M.
	ILHAS DESERTAS:						
23748 *D 2720*	-Ilheu Chao, on N. extremity.	32° 35.4´ N 16° 32.7´ W	**L.Fl.(2)W.** period 15s fl. 2s, ec. 2s fl. 2s, ec. 9s	367 **112**	13	White tower, dwelling, red lantern; 46.	
23752 *D 2722*	-Ilheu de Bugio, (Ponta da Agulha), S. head.	32° 24.3´ N 16° 27.8´ W	**Fl.W.** period 4s fl. 1s, ec. 3s	236 **72**	13	White tower, red bands; 16.	Visible 163°-100°.

(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 DE PORTO SANTO:						
23756 *D 2756*	**-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 tower, red cupola, white dwelling; 49.	Aeromarine light.
23765 *D 2757.2*	New Port, N. mole, head.	33° 03.5′ N 16° 18.8′ W	**Fl.R.** period 4s fl. 1s, ec. 3s	43 **13**	7	White column, red bands; 13.	
23766 *D 2757*	-S. mole, head.	33° 03.5′ N 16° 18.8′ W	**Fl.G.** period 4s fl. 1s, ec. 3s	56 **17**	6	White column, green bands; 13.	
23767 *D 2763*	-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	479 **146**	12	White tower, red bands; 16.	Visible 064°-243°.
23767.5 *D 2757.3*	-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. Range by day 3M.
23768 *D 2762*	Ilheu de Ferro.	33° 02.3′ N 16° 24.3′ W	**L.Fl.W.** period 15s fl. 3s, ec. 12s	394 **120**	13	White tower, red cupola, white dwelling; 46.	
23772 *D 2769*	Selvagem Pequena.	30° 02.2′ N 16° 01.7′ W	**Fl.(2)W.** period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	164 **50**	12	Structure, white lantern; 3.	
23776 *D 2768*	-Selvagem Grande.	30° 08.7′ N 15° 52.3′ W	**Fl.W.** period 4s fl. 1s, ec. 3s		13	White tower, red bands; 33.	
	ISLAS CANARIAS (CANARY ISLANDS) (S.)						
	ISLA DE LA PALMA:						
23780 *D 2846*	**-Punta Cumplida.**	28° 50.2′ N 17° 46.7′ 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 *D 2848.45*	-Santa Cruz de la Palma, breakwater, head.	28° 40.3′ N 17° 05.8′ W	**Fl.G.** period 5s fl. 1s, ec. 4s	56 **17**	5	Green round tower, truncated conical top, base; 26.	
23785 *D 2849.3*	--Marina Entrance, breakwater, head.	28° 40.7′ N 17° 46.1′ W	**Fl.(2)G.** period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	16 **5**	3	Green pyramidal tower; 16.	
23785.1 *D 2849.35*	---W. side.	28° 40.7′ N 17° 46.1′ W	**Fl.(2)R.** period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	16 **5**	3	Red pyramidal tower; 16.	
23794 *D 2848.4*	--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 *D 2848.5*	--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.	

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	ISLAS CANARIAS (CANARY ISLANDS) (S.)						
23797 *D 2849*	-Muelle Polivalente, head.	28° 40.4´ 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 *D 2847.2*	-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 *D 2847.5*	--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 *D 2849.51*	**-Punta de Arenas Blancas.**	28° 34.2´ N 17° 45.6´ 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 *D 2850*	-Punta de Fuencaliente, S. end of island.	28° 27.3´ N 17° 50.5´ 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 *D 2851*	**-Punta Lava.**	28° 35.8´ N 17° 55.5´ W	**Fl.(1+2)W.** period 20s	167 **51**	**20**	White octagonal tower.	
23802 *D 2852*	-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 *D 2838*	-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, round base; 23.	
23808 *D 2836*	**-Punta Orchilla.**	27° 42.4´ 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 *D 2837*	-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 *D 2842*	**-Punta de San Cristobal.**	28° 05.7´ 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 *D 2844.75*	-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 *D 2845*	-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**	3	Red pillar, red column; 16.	
23825.5 *D 2844.9*	--Breakwater.	28° 01.7´ N 17° 11.8´ W	**Fl.(2)G.** period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	30 **9**	5	Green column; 10.	
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, red band; 7.	

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	ISLAS CANARIAS (CANARY ISLANDS) (S.)						
	ISLA DE TENERIFE:						
23828 *D 2829*	**-Punta de Abona.**	28° 08.9′ N 16° 25.7′ 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**	White round tower, red bands, two galleries, dwelling; 128.	Visible 213°36′-040°18′.
23832 *D 2830*	**-Punta Rasca.**	28° 00.1′ 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, base; 20.	
23838 *D 2831.8*	**-Punta de Buenavista.**	28° 23.4′ N 16° 50.1′ 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° 55.2′ 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, two galleries; 65.	
23842 *D 2833*	**-Puerto de la Cruz.**	28° 25.1′ N 16° 33.3′ 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° 34.9′ N 16° 08.4′ 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, 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.	
23860 *D 2822.6*	---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 *D 2822.7*	---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.	

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	ISLAS CANARIAS (CANARY ISLANDS) (S.)						
23868 *D 2822*	--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 *D 2822.4*	--N. mole, head.	28° 28.6′ N 16° 14.5′ 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 *D 2822.45*	--Darsena de Anaga, NE. 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, tower, "X" topmark; 13.	Synchronized with 23874.
23874 *D 2822.46*	---NW. corner.	28° 28.3′ N 16° 01.6′ 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, tower, "X" topmark; 13.	Synchronized with 23873.
23876 *D 2826*	--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 *D 2826.2*	---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 *D 2826.4*	---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 *D 2826.5*	--Breakwater, head.	28° 29.5′ N 16° 12.8′ W	**Fl.R.** period 5s	43 **13**	3	Red column; 20.	
23888 *D 2831.6*	--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, red diagonal stripes; 16.	
23892 *D 2831.5*	-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 *D 2827.2*	-Puerto de la Hondura (Puerto Caballo), range, front, oil pier, E. angle.	28° 26.9′ N 16° 15.9′ 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.
	ISLA DE TENERIFE:						
23900.1 *D 2827.21*	---Rear, 335 meters 270°36′ from front.	28° 26.9′ N 16° 16.1′ W	**9 F.R.**(vert.)	56 **17**	2	White post, red diagonal stripes, white diamond daymark; 33.	4 F.R. form diamond on top of post, 5 F.R.(vert.).
	-Santa Cruz de Tenerife:						
23904 *D 2827*	--W. angle.	28° 26.9′ N 16° 15.9′ W	**Iso.G.** period 3.4s	33 **10**	5	Green post, 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°.

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	ISLAS CANARIAS (CANARY ISLANDS) (S.)						
	ISLA DE TENERIFE:						
23905 *D 2827.4*	--Range, front, dolphin.	28° 27.0´ N 16° 15.7´ W	**Q.R.**	43 **13**	3	White post, red diagonal bands, "X" daymark; 20.	
			4 F.R.(vert.)				
23905.1 *D 2827.41*	---Rear, 109 meters 327° from front.	28° 27.1´ N 16° 15.7´ W	**5 F.R.**(vert.)	46 **14**	2	White post, red diagonal bands, red and white "X" daymark; 23.	
	-Santa Cruz de Tenerife:						
23908 *D 2826.86*	-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.	
23909 *D 2826.78*	--Inside mole, head.	28° 27.6´ N 16° 14.8´ W	**Fl.G.** period 5s fl. 0.5s, ec. 4.5s	20 **6**	1	Green truncated pyramidal tower; 10.	
23910 *D 2826.9*	-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 *D 2826.91*	--Rear, 71 meters 002° from front.	28° 27.5´ N 16° 14.9´ W	**Q.W.**	43 **13**	3	White framework tower, red bands; 33.	
23911 *D 2826.87*	-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 *D 2826.72*	-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 *D 2826.74*	--W. extremity.	28° 27.4´ N 16° 14.9´ 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	20 **6**	3	Green metal post; 7.	
23916 *D 2826.7*	--Elbow.	28° 28.0´ N 16° 14.5´ W	**Q.(3)W.** period 10s	29 **9**	5	E. CARDINAL BYB, post, topmark.	
23917 *D 2826.82*	--W. breakwater, head.	28° 27.3´ N 16° 14.9´ 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 *D 2827.9*	-Puerto Radazul, breakwater, head.	28° 24.0´ N 16° 19.4´ W	**Fl.(2)G.** period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	33 **10**	5	Green post; 20.	
	ISLA DE TENERIFE:						
23919 *D 2827.93*	-Punta Larga.	28° 21.6´ N 16° 21.9´ W	**Fl.(3)G.** period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	20 **6**	5	Green cylindrical post; 7.	

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	ISLAS CANARIAS (CANARY ISLANDS) (S.)						
	-Santa Cruz de Tenerife:						
23920 *D 2827.94*	-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 *D 2827.98*	--Contradique.	28° 21.4´ N 16° 22.2´ 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	23 **7**	3	Red round column; 10.	
	ISLA DE GRAN CANARIA:						
23928 *D 2816*	**-Punta Sardinia, NW.**	28° 09.9´ N 15° 42.5´ 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 *D 2798*	**-La Isleta.**	28° 10.4´ N 15° 25.1´ 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 *D 2799.2*	-El Roque del Palo.	28° 09.9´ N 15° 23.9´ 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.	
23935 *D 2799.3*	-Dique de la Esfinge, head.	28° 09.1´ N 15° 23.9´ W	**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	52 **16**	5	Green and white cylindrical tower; 13.	
23936 *D 2799*	-**Radio Atlantico,** AVIATION LIGHT.	28° 01.1´ N 15° 35.2´ W	**Oc.R.** period 3s lt. 2s, ec. 1s	5266 **1605**	**40**	Radio mast; 180.	
23938 *D 2799.4*	-Puerto de la Luz, breakwater, head.	28° 07.3´ N 15° 24.3´ W	**Fl.G.** period 5s fl. 0.3s, ec. 4.7s	66 **20**	10	Green and white tower; 26.	
23939 *D 2799.5*	--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 *D 2799.6*	--Second elbow.	28° 08.0´ N 15° 24.5´ 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 *D 2799.66*	--Entrance Range, front.	28° 09.3´ N 15° 24.6´ W	**Iso.W.** period 4s	49 **15**	6	Post; 3.	
23942.1 *D 2799.67*	---Rear, 609 meters 000° from front.	28° 09.7´ N 15° 24.6´ W	**Q.W.**	102 **31**	6	Post; 33.	
23943 *D 2800.5*	--Astican, SE. corner.	28° 09.0´ N 15° 24.6´ 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**	3	Red round post, green band; 10.	

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			ISLAS CANARIAS (CANARY ISLANDS) (S.)				
23945 *D 2803.2*	--Muelle Grande, SW. corner.	28° 08.5´ N 15° 25.3´ W	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	26 **8**	2	Round green masonry tower; 20.	
23945.1 *D 2803*	---SE. corner.	28° 08.5´ N 15° 25.2´ W	**Fl.R.** period 5s fl. 0.5s, ec. 4.5s	26 **8**	2	Red cylindrical tower; 20.	
23948 *D 2800.42*	--Muelle Virgen del Pino.	28° 08.6´ N 15° 24.7´ 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**	3	Red post; 13.	
23953 *D 2803.3*	--Pantalan de Fransari, SW. corner.	28° 08.6´ N 15° 25.4´ W	**Q.G.**	30 **9**	3	Round green post; 13.	
23954 *D 2803.35*	---SE. corner.	28° 08.6´ N 15° 25.3´ W	**Q.R.**	30 **9**	3	Red post; 13.	
23955 *D 2803.37*	--Muelle Pesquero, SE. end.	28° 08.6´ N 15° 25.5´ 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	26 **8**	2	Green cylindrical tower, red band; 16.	
23956 *D 2801.2*	--Muelle Leon y Castillo, W. head.	28° 07.7´ N 15° 25.1´ 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, brown bands; 30.	Visible 291°-182°.
23956.5 *D 2800.2*	---E. end.	28° 07.7´ N 15° 24.7´ W	**Fl.R.** period 5s fl. 0.5s, ec. 4.5s	26 **8**	5	Red round tower; 13.	
23956.8 *D 2801.3*	---RoRo.	28° 08.2´ N 15° 25.1´ W	**Fl.(4)G.** 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	20 **6**	3	Green post; 13.	
23960 *D 2799.7*	--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 *D 2800.1*	--Muelle de los Cambulloneros, SE. corner.	28° 07.7´ N 15° 24.7´ W	**Fl.(2)R.** period 7s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s		3	Red post; 13.	
23968 *D 2801*	--Puerto Interior.	28° 08.8´ N 15° 25.1´ W	**Dir.W.R.G.** period 3s fl. 2s, ec. 1s	72 **22**	3	White post, building; 62.	Oc.G. 357°-359°, Oc.W.-002°, Oc.R.-004°.
23976 *D 2804*	--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 *D 2806*	---SE. head.	28° 08.4´ N 15° 25.3´ W	**Q.(4)R.** period 10s	26 **8**	3	Red post, round red tower; 16.	
23984 *D 2807*	---SW. head.	28° 08.2´ N 15° 25.2´ W	**Fl.(2+1)R.** period 11s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	26 **8**	3	Red cylindrical tower, green band; 16.	
23987 *D 2801.9*	--Real Club Nautico, breakwater, N. end.	28° 08.0´ N 15° 25.5´ W	**Q.(4)R.** period 10s	26 **8**	3	Red truncated pyramidal tower; 13.	

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	ISLAS CANARIAS (CANARY ISLANDS) (S.)						
23988 *D 2807.37*	--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 *D 2807.36*	---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 *D 2807.35*	----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 *D 2807.5*	-Punta Melenara.	27° 59.5´ N 15° 22.0´ 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 *D 2809*	--Bahia de Melenara anchorage range N-S.	27° 58.5´ N 15° 22.5´ W	**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 *D 2809.4*	--Punta de la Hullera anchorage range E-W.	27° 58.4´ N 15° 22.8´ W	**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 *D 2812*	**-Punta Arinaga.**	27° 51.8´ N 15° 23.1´ 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 *D 2814*	**-Maspalomas.**	27° 44.2´ N 15° 35.8´ 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 *D 2815*	-Pasito Blanco, dike, head.	27° 45.0´ N 15° 37.0´ W	**F.R.**	30 **9**	3	Red metal post.	
24014.2 *D 2815.2*	--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 *D 2815.22*	--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 *D 2815.4*	-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	Red round post, white bands; 16.	
24020 *D 2815.45*	--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 *D 2815.7*	-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 *D 2815.6*	---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 *D 2815.82*	--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 *D 2815.8*	---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 *D 2815.96*	-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	Red trapezoidal tower, white bands; 20.	
24023.5 *D 2815.98*	--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	Green trapezoidal tower, white bands; 7.	
24023.7 *D 2815.94*	**-Punta del Castillete.**	27° 49.2´ N 15° 46.1´ W	**Fl.W.** period 5s fl. 1s, ec. 4s	374 **114**	**17**	Square tower.	
	ISLA DE FUERTEVENTURA:						
24024 *D 2790*	**-Punta Jandia.**	28° 03.9´ N 14° 30.4´ W	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	108 **33**	**22**	Gray conical tower, dwelling; 62.	Visible 276°-190°.
24026 *D 2791*	-Punta Pesebre.	28° 06.6´ 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 *D 2796.5*	**-Puerto de Morro Jable.**	28° 02.7´ N 14° 20.0´ 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 *D 2795*	**-Punta Lantailla.**	28° 13.8´ N 13° 56.9´ 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, building; 39.	Aeromarine light.
24033 *D 2796.1*	-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 *D 2796*	--E. side.	28° 12.4´ N 14° 01.4´ 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**	5	White and green tower; 23.	
24034 *D 2793.5*	**-Punta Gaviota.**	28° 30.3´ N 13° 50.6´ W	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	157 **48**	**20**	White round tower; 141.	Reserve light 9M.
24036 *D 2794*	-Puerto del Rosario, pier, head.	28° 29.6´ N 13° 51.3´ W	**Fl.G.** period 5s fl. 0.5s, ec. 4.5s	46 **14**	5	Green round column; 33.	
24037 *D 2794.2*	--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.	

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	ISLAS CANARIAS (CANARY ISLANDS) (S.)						
24040 *D 2792*	-Toston, on Punta del Toston, NW. side of island.	28° 42.9´ N 14° 00.8´ W	**Fl.W.** period 8s fl. 1s, ec. 7s	115 **35**	14	White tower, red bands; 98.	
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° 45.8´ N 13° 48.9´ 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° 51.3´ N 13° 52.3´ 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 Reparacianes, 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, truncated base; 26.	

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	ISLAS CANARIAS (CANARY ISLANDS) (S.)						
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.	
24076 *D 2772*	Isla de Aleganza, Punta Delgada.	29° 24.2´ N 13° 29.4´ 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 *D 2950*	**-Ponta de Tumbo.**	17° 06.9´ N 24° 58.2´ W	**Fl.(4)W.** period 20s	531 **162**	**17**	White octagonal masonry tower, dwelling; 52.	Visible 141°-321°.
24084 *D 2956*	Porto Navo, N. pier, head.	17° 00.9´ N 25° 03.6´ W	**Iso.G.** period 4s	43 **13**	6	Metal mast; 20.	
24088 *D 2952*	-Ponta do Sol, N. point of island.	17° 12.2´ N 25° 05.4´ W	**Fl.W.** period 4s	49 **15**	9	Metal mast, lantern; 33.	
24092 *D 2954*	-Ponta de Mangrade (Ponta Oeste).	17° 03.3´ N 25° 21.5´ W	**Fl.(2)W.** period 10s	367 **112**	13	White column, red lantern; 10.	Visible 005°-200°.
	ILHA DE SAO VICENTE:						
24096 *D 2946*	**-Ponta Machado.**	16° 49.6´ N 25° 05.2´ W	**Fl.W.** period 5s fl. 0.2s, ec. 4.8s	184 **56**	**17**	White square masonry tower, dwelling; 46.	Visible 302°-172°.
24100 *D 2942*	-Ilheu do Passaros (D. Luiz), Porto Grande, entrance.	16° 54.7´ 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 *D 2943*	-Cabnave.	16° 54.0´ N 24° 59.9´ W	**Fl.R.** period 2s	26 **8**	8	Metal mast, square balcony; 13.	
24108 *D 2944*	--Molhe 2, head.	16° 53.3´ N 25° 00.0´ W	**Fl.R.** period 4s	33 **10**	6	Round column, gallery; 26.	
	-Porto Grande:						
24116 *D 2943.4*	--Gale Range, front.	16° 52.5´ N 25° 00.3´ W	**F.G.**	42 **13**	5		Occasional.
24120 *D 2943.41*	---Rear, 980 meters 147° from front.	16° 52.0´ N 25° 00.0´ W	**F.G.**	62 **19**	5		Occasional.
24124 *D 2943.6*	--Comando Naval Range, front.	16° 53.3´ N 24° 59.8´ W	**F.R.**	65 **20**	5		Occasional.
24128 *D 2943.61*	---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 *D 2939.5*	-Ponta dos Tarrafes.	16° 44.4´ N 24° 41.4´ W	**Fl.(2+1)W.** period 15s	26 **8**		Metal tower; 16.	

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	ARQUIPELAGO DE CABO VERDE (CAPE VERDE ISLANDS)						
	ILHA DE SAO NICOLAU:						
24132 *D 2934*	**-Ponta do Barril.**	16° 36.2´ N 24° 25.7´ W	**Fl.(3)W.** period 12s	43 **13**	**15**	White quadrangular tower, dwelling; 30.	
24134 *D 2933.2*	-Ponta Espechim.	16° 40.5´ N 24° 20.0´ W	**Fl.(3)W.** period 5s	141 **43**	8	Metal tower; 16.	
24135 *D 2933.1*	-Ponta Vermelharia.	16° 29.2´ N 24° 18.4´ W	**Fl.(5)W.** period 20s	59 **18**	8	Metal tower; 16.	
24136 *D 2936*	-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 *D 2930*	-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 *D 2919.75*	-Ponta Norte.	16° 50.1´ N 22° 55.0´ W	**Fl.(3)W.** period 12s	52 **16**	8	Metal tower; 16.	
24148 *D 2921*	-Baia 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 *D 2921.1*	--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 *D 2920*	-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 *D 2920.1*	--Rear, 435 meters 064° from front.	16° 45.2´ N 22° 58.5´ W	**F.R.**	43 **13**	5		
24164 *D 2922*	-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 *D 2922.5*	-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 *D 2925*	-**Monte Curral** AVIATION LIGHT, N. of Runway.	16° 44.0´ N 22° 57.0´ W	**Al.Fl.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 *D 2923*	-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 *D 2923.1*	--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 *D 2923.2*	-Range, front.	16° 45.5´ N 22° 54.1´ W	**F.G.**	46 **14**	2	Truncated pyramid; 10.	Occasional. Private light.
24188 *D 2923.3*	--Rear, 215 meters 306° from front.	16° 45.6´ N 22° 54.2´ W	**2 F.W. (vert)**	69 **21**	2	Framework tower, house; 23.	Occasional. Private light.
	ILHA DA BOA VISTA:						
24192 *D 2918*	-Velho, on Ponta da Escuma.	16° 10.3´ N 22° 56.0´ W	**Fl.(5)W.R.** period 20s	92 **28**	11	Metal mast, lantern; 26.	W. 220°-355°, R.-220°.
24193 *D 2919*	--Ponte Cais.	16° 10.4´ N 22° 57.2´ W	**Fl.(3)R.** period 12s	26 **8**	5	Red tower; 20.	
24196 *D 2914*	**-Morro Negro.**	16° 06.1´ N 22° 40.9´ W	**Fl.W.** period 20s	535 **163**	**31**	Small white quadrangular concrete tower, dwelling; 39.	Visible 163°-035°.

(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)						
24197 *D 2916*	-Ponte Varandinha.	16° 02.6´ N 22° 58.2´ W	**Fl.(2)W.** period 6s	72 **22**	10	Structure, lantern; 23.	Visible 310°-194°. **Radar reflector.**
	-RACON		**V(• • • –)** period 30s		**24**		
24198 *D 2919.5*	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°.
	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	Tower, wooden platform.	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, 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	Yellow metal tower, lantern.	
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, 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	White masonry column, gray lantern; 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′.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
	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, 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, fort; 13.	
24256 *D 2898*	-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 *D 2904*	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.	Visible 304°-010° and 047°-252°.

(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.Fl.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.**				F.Or. lights mark length of pier.
			F.G.	59 **18**	3	Green and white banded pole.	N. end of pier.
			F.R.	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**	Black round tower, 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 *D 2975*	-(Puntilla Raimes), 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 *D 2975.2*	-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 *D 2975.3*	--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 *D 2975.6*	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 round tower, white bands; 131.	
24336 *D 2976*	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 *D 2977*	**Cap Blanc.**	20° 46.0´ N 17° 03.0´ W	**Fl.W.** period 5s fl. 0.2s, ec. 4.8s	141 **43**	**17**	Black octagonal tower, white bands; 66.	
	BAIE DU LEVRIER:						
24344 *D 2977.5*	*-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 *D 2978*	-Point Central, wharf.	20° 49.0´ N 17° 02.0´ W	**F.R.**				
24352 *D 2978.4*	--Wharf, N. extremity.	20° 50.0´ N 17° 02.0´ W	**F.R.**				F.Vi. on dolphins N. and S. of wharf.
24356 *D 2978.5*	--Wharf, S. extremity.	20° 50.0´ N 17° 02.0´ W	**F.R.**				
24360 *D 2979*	-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 *D 2980*	-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, black stripes; 39.	G. 212°-286°, W.-292°, R.-360°.
24368 *D 2982*	--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.	
24373 *D 2986*	Approach light.	17° 59.6´ N 16° 01.0´ W	**Fl.W.** period 4s	121 **37**	**16**	White tower, black bands, red top.	
24373.1 *D 2986.3*	-Port de l'Amitie Range, front.	17° 59.2´ N 16° 01.5´ W	**Iso.G.** period 1s	49 **15**	5	Green and gray diamond, mast.	
24373.2 *D 2986.31*	--Rear, 320 meters 085° from front.	17° 59.3´ N 16° 01.3´ W	**Iso.G.** period 1s	72 **22**	5	Green and gray diamond, mast.	
24373.3 *D 2986.4*	-Port de l'Amitie, quay.	17° 59.2´ N 16° 01.9´ W	**Fl.(3)R.**			White tower, red bands.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			MAURITANIA				
24374 *D 2986.5*	-S. mole, head.	17° 59.2´ N 16° 02.3´ W	**Oc.R.** period 3s	49 **15**	5	White pylon; 33.	
			SENEGAL				
24380 *D 2996*	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	White pylon, red top; 46.	**Horn:** 2 bl. ev. 20s. **Aero Radiobeacon** 3.5 miles ENE.
24384 *D 2998*	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	White tower, black bands.	The Senegal River is marked by several R. and G. lights.
	PRESQU'ILE DU CAP VERT:						
24388 *D 3002*	-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	Black tower, white bands; 56.	
24392 *D 3004*	**-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, house; 52.	May be confused with Cap Manuel Light in hazy weather. Signal station. **Aero Radiobeacon** 1.5 miles ESE.
24396 *D 3008*	**-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, dwelling, red pillars; 55.	Partially obscured by Iles de la Madeleine and de la Goree, respectively, 096°-102° and 242°-246°30′.
24400 *D 3008.2*	--Close SE.	14° 39.0´ N 17° 26.0´ W	**F.W.R.**	157 **48**	W. 11 R. 8	Square white tower; 39.	R. 204°-254°, W.-083°, R.-128°. Partially obscured in same sectors as Cap Manuel Light.
	DAKAR:						
24404 *D 3010*	-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 *D 3012*	-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 *D 3013*	-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 *D 3018*	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 *D 3019*	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, *Entrance Whistle Buoy.*	13° 50.0´ N 16° 50.0´ W	**Fl.W.** period 4s fl. 1s, ec. 3s			Red buoy, white stripes.	**Radar reflector.**

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			THE GAMBIA				
24452 *D 3021*	**Cape St. Mary.**	13° 28.0´ N 16° 42.0´ W	**Fl.(2)W.** period 10s	140 **43**	**15**	Water tower.	
	RACON		**B(– • • •)**				
24464 *D 3027*	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 *D 3027.5*	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 *D 3030*	-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 *D 3042*	-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, pyramid; 43.	
24492 *D 3044*	-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, pyramid; 30.	
	RIO GEBA:						
24500 *D 3050*	**-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 *D 3052*	-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 *D 3053*	-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 *D 3054*	-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 *D 3056*	-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 *D 3057*	-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 *D 3058*	-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.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SENEGAL				
24532 *D 3062*	-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, white pyramid; 20.	
24540 *D 3060*	--Entrance Range, front.	11° 51.4´ N 15° 34.9´ W	**L.Fl.G.** period 7s fl. 2s, ec. 5s	43 **13**	4	White tower.	
24544 *D 3060.1*	---Rear, about 320 meters 346° from front.	11° 51.6´ N 15° 35.0´ W	**L.Fl.G.** period 7s fl. 2s, ec. 5s	118 **36**	4	N. tower of cathedral.	
24545 *D 3059*	-Dicol Oil Jetty.	11° 50.2´ N 15° 35.4´ W	**2 Iso.R.** period 4s				1 on each corner.
24552 *D 3064*	-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 *D 3065*	-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 *D 3070*	--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 *D 3071*	--Bolama, N. pier.	11° 34.5´ N 15° 28.5´ W	**Fl.W.** period 3s	19 **6**			
24568 *D 3072*	--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 *D 3074*	-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 *D 3078*	-Bubaque.	11° 18.1´ N 15° 50.1´ W	**Fl.R.** period 5s fl. 1s, ec. 4s	26 **8**	7	Black column.	
24588 *D 3081*	-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 *D 3080*	-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 point up.	
			GUINEA				
	RIO NUNEZ:						
24600 *D 3084*	-Victoria.	10° 49.0´ N 14° 34.0´ W	**Fl.W.** period 6s fl. 1.5s, ec. 4.5s	46 **14**	6	White pillar, platform.	
24604 *D 3086*	-Port Kamsar Range, front.	10° 39.0´ N 14° 37.0´ W	**F.R.**				

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			GUINEA				
24608 *D 3086.1*	--Rear, 097° from front.	10° 39.1´ N 14° 37.0´ W	**F.R.**				
24612 *D 3087*	**Cap Gonzalez.**	10° 24.3´ N 14° 41.5´ W	**Fl.(3)W.** period 15s	33 **10**	**15**	Sheltered pillar.	
	RACON		**G(– – •)**		**15**		
24616 *D 3088*	**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	*Rio Nunez Approach Buoy 3.*	10° 09.5´ N 15° 12.0´ W	**Fl.(4)W.** period 15s			Red buoy.	
	RACON		**K(– • –)**		10		
24620 *D 3090*	**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 *D 3093*	-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 *D 3094*	-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, tower, topmark.	
24648 *D 3096*	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 *D 3098*	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, 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 *D 3098.5*	-Ferry Terminal.	8° 29.0´ N 13° 14.0´ W	**F.G.**		2		
24668 *D 3099*	-Falcon Bridge Point.	8° 30.0´ N 13° 14.0´ W	**Iso.W.** period 2s	42 **13**	3	White round metal tower, two black bands; 8.	*Reported unreliable (1984).*
24672 *D 3100.2*	-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 *D 3101*	-Cline Point Range, front.	8° 30.0´ N 13° 12.0´ W	**F.R.**	23 **7**	1	Metal tripod; 16.	
24680 *D 3101.1*	--Rear, about 42 meters 127° from front.	8° 29.5´ N 13° 12.2´ W	**F.W.**	49 **15**	1	Metal framework tower, building; 39.	
24684 *D 3101.4*	-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 *D 3101.6*	-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.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SIERRA LEONE				
	BANANA ISLANDS:						
24692 *D 3102*	-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°.
			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.)			Mast, trapezoidal daymark.	*Temporarily extinguished (2009). Defines north limit of fairway.* Occasional.
24730 *D 3113*	--Common rear.	5° 51.3′ N 10° 02.6′ W	**3 F.Y.** (vert.)			Mast.	*Temporarily extinguished (2009). On request.* Occasional.
24732 *D 3113.1*	-Range, front, 103° to common rear.	5° 51.4′ N 10° 02.9′ W	**3 F.Y.** (vert.)			Framework tower, dolphin.	*Temporarily extinguished (2009). On request.* Occasional.
24734 *D 3113.3*	-Range, front.	5° 51.3′ N 10° 02.7′ W	**3 F.Y.** (vert.)			Mast, trapezoidal daymark.	*Temporarily extinguished (2009). Defines south limit of fairway.* Occasional.
24736 *D 3113.31*	--Rear.	5° 51.3′ N 10° 02.6′ W	**3 F.Y.** (vert.)			Mast.	*Temporarily extinguished (2009).* Occasional.
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.	*Temporarily extinguished (2009).* Occasional.
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.	*Temporarily extinguised (2009).*
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°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			LIBERIA				
	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.	*Reported unreliable.*
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°.
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, black 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	Red metal tower, 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	Red metal pylon, 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	Red metal pylon, 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, 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).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			IVORY COAST				
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.
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	**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° 53.2′ N 1° 45.1′ W	**Fl.(2)W.** period 3s	163 **50**	**19**	White water tower, red lantern.	Visible 220°-070°. **AIS.**
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.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			GHANA				
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°.
24892 *D 3166*	-AVIATION LIGHT.	5° 36.0´ N 0° 10.0´ W	**Al.W.G.** period 5s	249 **76**		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.	**AIS.**
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*	--Outer E. breakwater, head.	5° 38.1´ N 0° 01.2´ E	**Q.G.**		7	Green fiberglass tower; 20.	
24920 *D 3167.6*	---NE. corner.	5° 38.3´ N 0° 01.1´ E	**Q.R.**		7	Red fiberglass tower; 20.	
24921 *D 3167.8*	-Inner Fishing Harbor, E. breakwater.	5° 38.3´ N 0° 01.1´ E	**Q.G.**		7	Green fiberglass tower; 20.	
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, Jetee 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*	--Jetee 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. 251°-042°, R.-072°. 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 *D 3178*	**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 *D 3179*	-Dique 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, white pylon.	
24960 *D 3180*	-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 *D 3181*	-N. breakwater, head.	6° 20.7′ N 2° 25.9′ E	**Iso.G.** period 4s	26 **8**	4	Green column.	
			NIGERIA				
	LAGOS HARBOR:						
24968 *D 3870*	**-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, lantern; 89.	
24976 *D 3873*	-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 *D 3878*	--Middle.	6° 24.6′ N 3° 24.2′ E	**Fl.R.**				Storm signals.
24996 *D 3881*	-Wilmot Point S. Jetty, head.	6° 24.3′ N 3° 24.4′ E	**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 *D 3884*	-Marina, 351°.	6° 26.4′ N 3° 24.1′ E	**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 *D 3885*	-Apapa Wharf, NE. corner.	6° 26.3′ N 3° 23.7′ E	**Fl.R.** period 8s		4		
25012 *D 3885.5*	--SE. corner.	6° 26.1′ N 3° 23.6′ E	**Fl.G.** period 5s fl. 0.5s, ec. 4.5s		4		
25016 *D 3886*	-Tin Can Island, E.	6° 25.9′ N 3° 21.6′ E	**Q.G.**		5	Dolphin; 23.	
25018 *D 3886.3*	-Sea School Point.	6° 25.8′ N 3° 21.0′ E	**Q.R.**		5		**Radar reflector.**
25032 *D 3888*	-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 *D 3900*	**-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 *D 8580.6*	-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 *D 3904*	-Main mole, head.	5° 31.0´ N 5° 06.0´ E	**Fl.W.** period 10s	33 **10**	10	Metal framework tower; 26.	**Radar reflector.**
25048 *D 3906*	-Island mole, S. head.	5° 31.3´ N 5° 07.1´ E	**Fl.W.** period 5s	23 **7**	8	Metal framework pylon, hut; 20.	**Radar reflector.**
25049 *D 8581.7*	Loading Berth.	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 *D 3930*	**Palm Point.**	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 *D 8584.4*	Brass Oil Terminal Berth Operating Platform.	4° 04.0´ N 6° 17.2´ E	**Mo.(U)W.** period 15s				**Horn:** Mo.(U).
			Mo.(U)R. period 15s				
	RACON		**T(–)**				
25064 *D 3940*	**-Bonny.**	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 *D 3944*	- -Boler's Pier, near root.	4° 27.3´ N 7° 10.3´ E	**Oc.G.** period 2.5s	29 **9**			Signal station.
25070 *D 8588.2*	**Qua Iboe.**	4° 14.2´ N 8° 02.7´ E	**Mo.(U)W.** period 15s				**Horn.**
	RACON		**K(– • –)**		**20**		Azimuth coverage 180°-090°.
			CAMEROON				
25084 *D 3990*	**Debundscha Point.**	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 *D 4008*	-Limbe Range, front.	4° 00.8´ N 9° 12.1´ E	**F.R.**			White beacon, black bands.	
25092 *D 4008.1*	- -Rear, 50 meters 032° from front.	4° 00.8´ N 9° 12.1´ E	**F.R.**			White beacon, black bands.	
25096 *D 4006*	-Bota Pier, on flagstaff.	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 *D 4000*	Cape Nachitgal.	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 *D 4018*	-Entrance Point.	3° 58.5´ N 9° 17.1´ E	**Fl.W.R.** period 7s fl. 0.5s, ec. 6.5s	14 **4**	8	Red and white checkered masonry hut; 13.	W. 228°-033°, R.-228°.
			OFFSHORE ISLANDS				
	EQUATORIAL GUINEA ISLA DE BIOKO:						
25112 *D 4040*	**-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 *D 4039*	-Matabo (Santa Isabel) Airport.	3° 45.2´ N 8° 42.9´ E	**Al.Fl.W.G.** period 6s	141 **43**		Control tower.	Occasional.
25120 *D 4032*	-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, pyramid; 26.	
25124 *D 4036*	-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 *D 4036.1*	--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 *D 4028*	-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 *D 4043*	-Islote Loros, NW. side.	3° 32.4´ N 8° 34.1´ E	**Q.W.**	33 **10**	7	White metal tower; 13.	
25144 *D 4046*	--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 hexagonal tower, red bands; 52.	W. 090°-186°, R.-270°.
25146 *D 4051*	--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°. F.G. 3M 071.5° range inside Puerto Luba.
25156 *D 4056*	-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 *D 4064*	-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 *D 4060*	-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 *D 4154*	-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	Red tower, white bands; 16.	Visible 230°-292°.
25174 *D 4158.5*	-Focinho de Cao.	1° 36.3´ N 7° 19.8´ E	**Fl.W.** period 12s	49 **15**	12		
25174.5 *D 4159*	-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 *D 4149*	-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 *D 4155*	-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	Red building, white stripes, lantern; 39.	G. 220°-239°, W.-245°, R.-007°.
25177 *D 4154.2*	-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 *D 4158*	-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 *D 4160*	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 *D 4243*	-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 *D 4230*	-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 *D 4237*	-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, fortress; 20.	R. 332°-171°, W.-332°.
	-Porto de Ana Chaves:						
25196 *D 4234*	--Punta de San Jose Range, front.	0° 21.4´ N 6° 43.5´ E	**Fl.G.** period 4s fl. 1.5s, ec. 2.5s	30 **9**	6	White square tower, red bands; 16.	
25200 *D 4234.1*	---Rear, about 80 meters 285° from front.	0° 21.4´ N 6° 43.6´ E	**Fl.G.** period 4s fl. 1.5s, ec. 2.5s	30 **9**	6	White square tower, red bands; 16.	
25201 *D 4238*	-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, 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, 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 *D 4170*	**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 *D 4175*	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 *D 4174*	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 *D 4175.5*	**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 *D 4176*	-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 *D 4180*	-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 *D 4177*	-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 *D 4190*	**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.	F.W. 167 meters NW.
	BAHIA DE CORISCO:						
25288 *D 4210*	-Rio Muni. Port de Cogo, Dir. Lt 058°.	1° 05.0´ N 9° 41.7´ E	**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 *D 4200*	-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 *D 4260*	Pointe N´Dombo.	0° 56.3´ N 9° 33.1´ E	**Fl.W.** period 4s	24 **7**	10	White square tower; 26.	
25312 *D 4272*	Cap Esterias.	0° 37.2´ N 9° 19.6´ E	**Fl.(2+1)W.** period 15s	59 **18**	10	White beacon; 59.	
	ESTUAIRE DU GABON:						
25314 *D 4274*	-Cap Santa Clara.	0° 30.3´ N 9° 19.1´ E	**Fl.W.** period 10s	98 **30**	12	White pylon; 59.	
25316 *D 4276*	**-Pointe Gombe.**	0° 18.3´ N 9° 18.3´ E	**Fl.W.** period 10s fl. 0.7s, ec. 9.3s	187 **57**	**22**	White tower, black band; 39.	
25344 *D 4284.2*	-Port Libreville, breakwater, NW. head.	0° 24.1´ N 9° 26.1´ E	**Iso.G.** period 4s		5		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			GABON				
25348 *D 4284*	--Breakwater, SE. head.	0° 23.9´ N 9° 26.2´ E	**Iso.R.** period 4s		5	White square tower, red top.	
25356 *D 4286*	-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 *D 4287.5*	--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 *D 4290*	-Capitaines Beacon.	0° 37.6´ S 8° 43.1´ E	**Fl.R.** period 2s	36 **11**	8	Yellow beacon.	
25372.3 *D 4291*	-Fisherman's Quay, corner.	0° 41.2´ S 8° 46.5´ E	**Fl.W.** period 4s				
25373 *D 4290.1*	**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, red top, 98.	
	OIL WELL AREA S. OF CAP LOPEZ:						
25388 *D 8605*	-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 *D 8605.2*	--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 *D 8605.3*	--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 *D 8605.4*	--SE. angle.	1° 36.0´ S 9° 12.6´ E	**Mo.(U)W.** period 12s	39 **12**	7	Pylon.	
25444 *D 8610*	**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 *D 4311*	**-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 *D 4315*	-Detached breakwater, N. head.	4° 46.7´ S 11° 50.1´ E	**F.R.**	75 **23**	9	White tower; 82.	
25464 *D 4315.1*	-Cathedral.	4° 47.7´ S 11° 50.7´ E	**2 F.R.** (horiz.)	131 **40**	9	Cathedral.	Visible 124°-174°.
25476 *D 4314*	-Inner breakwater, W. side of entrance.	4° 46.7´ S 11° 50.0´ E	**F.G.**	33 **10**	9	White tower; 82.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CONGO				
25484 *D 4319*	**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 *D 4326*	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 *D 4332*	Malongo Range, front.	5° 23.6´ S 12° 11.8´ E	**Iso.R.** period 2s	30 **9**	8	White triangular tower; 33.	
25500 *D 4332.1*	-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 *D 8625*	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 *D 4340*	**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 *D 4342.5*	-Cabinda Airport AVIATION LIGHT.	5° 35.2´ S 12° 11.7´ E	**Al.Fl.W.G.**	98 **30**			Occasional.
25508 *D 4343*	-Simulambuco Range, front.	5° 33.2´ S 12° 13.3´ E	**Iso.R.** period 2s	30 **9**	4	White quadrangular masonry tower.	
25512 *D 4343.1*	- -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 *D 4370*	**Pointe Kupundji.**	5° 53.4´ S 12° 17.7´ E	**Fl.W.** period 5s	102 **31**	**15**	White metal tower; 31.	
25524 *D 4390*	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°.
			ANGOLA				
	CONGO RIVER ENTRANCE SOUTH SIDE:						
25528 *D 4380*	-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 *D 4382*	-Ponta do Padrao.	6° 04.7´ S 12° 19.7´ E	**Fl.G.** period 4s fl. 1s, ec. 3s	49 **15**	11	White pylon, red bands.	
25536 *D 4384*	-Santo Antonio Entrance Range, front.	6° 07.4´ S 12° 21.9´ E	**F.R.**	13 **4**	6	Metal lantern, white triangular mark point up.	
25540 *D 4384.1*	- -Rear, about 150 meters 152°18′ from front.	6° 07.5´ S 12° 22.0´ E	**F.R.**	30 **9**	6	Metal lantern, white triangular mark point down.	**Aero Radiobeacon** about 0.8 mile SSE.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			ANGOLA				
25544 *D 8629*	-Sazaire Oil Terminal.	6° 05.8´ S 12° 23.0´ E	**Iso.W.** period 4s			Platform.	
25552 *D 8633*	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 *D 5003*	**Cabeca 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 *D 5006*	**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 *D 5040*	**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 *D 5060*	**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 *D 5080*	**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 *D 5100*	-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; 46.	**Radar reflector.**
25584 *D 5101*	-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, building; 36.	
25596 *D 5104*	-Pedras de Mae-Isabel.	8° 47.9´ S 13° 14.5´ E	**F.W.**	15 **5**	1	Black tower, white bands, gallery, stone base.	
25600 *D 5150*	**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 *D 5180*	**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; 39.	
25608 *D 5200*	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 *D 5226*	Cambiri.	10° 43.8´ S 13° 45.0´ E	**Fl.R.** period 4s fl. 1s, ec. 3s	211 **64**	3	White hut; 13.	
25616 *D 5228*	--Pier, NW. corner.	10° 43.7´ S 13° 45.1´ E	**F.R.**	9 **3**	3	Column.	
25620 *D 5228.2*	--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, 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, 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.	*Temporarily extinguished.*
	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, white dwelling; 23.	
25652 *D 5300*	-Old fort, N. face Range front.	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; 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, two dwellings; 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, house; 39.	*Temporarily extinguished (2011).*
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.	*Temporarily extinguished (2001).*
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, 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, 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 Nornonha.	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**	White round tower, yellow stripes, two white houses; 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, 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, 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 *D 5520*	**-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	*-Approach Bell Spit Bell, 4 km. 020° from Pelican Point.*	22° 52.0´ S 14° 27.0´ E	**Q.W.**			N. CARDINAL BY, spar, topmark.	**Bell.** **Radar reflector.**
25768 *D 5522*	-Channel Range, front.	22° 57.1´ S 14° 29.8´ E	**F.R.**	65 **20**	**15**	Warehouse.	Visible 178°-188°.
25772 *D 5522.1*	- -Rear, 675 meters 183° from front.	22° 57.5´ S 14° 29.7´ E	**F.G.**	105 **32**	12	Framework tower.	Visible 178°-188°.
25784 *D 5528*	-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 *D 5531*	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 *D 5600*	**-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 *D 5607*	-Robert Harbor, entrance Range, front.	26° 37.9´ S 15° 09.9´ E	**Q.W.**	56 **17**			
25796 *D 5607.1*	- -Rear, 250 meters 120° from front.	26° 38.0´ S 15° 10.0´ E	**Fl.R.** period 2s	76 **23**			
25808 *D 5606*	-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°.
25812 *D 5608*	-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 *D 5660*	-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 *D 5660.1*	**-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**	Black metal framework tower, white bands, triangular daymark point down; 36.	Bar signals. Signal station.
	-RACON		**Z(– – • •)** period 72s		12		
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, white square concrete structure; 9.	Visible 093°-099°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SOUTH AFRICA				
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, green dome, white lantern; 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, triangular daymark point down.	R. 095°-130° (over Brittania 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.	**Nautophone:** 1 bl. ev. 60s.
25896 *D 5830*	**Saldanhabaai.**	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.
25902 *D 5836*	-Small craft harbor, breakwater, head.	33° 01.4´ S 17° 57.6´ E	**Fl.W.** period 2s				
25904 *D 5838*	-Jetty, head.	33° 01.2´ S 17° 57.2´ E	**Q.W.**	16 **5**	3		F.R. on mast 750 meters W.
25908 *D 5840*	-Slipway jetty, head.	33° 01.2´ S 17° 57.0´ E	**Q.R.**	20 **6**	3		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SOUTH AFRICA				
25916 *D 5847*	-Ore jetty Range, front.	33° 02.4´ S 17° 58.4´ E	**F.W.**		12	Pole.	Occasional.
25920 *D 5847.1*	--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 *D 5843*	-Multipurpose quay, head.	33° 00.1´ S 17° 59.6´ E	**Fl.(2)G.** period 6s	16 **5**	3		
25932 *D 5841.1*	-Ore Concentrates, pier, NW. corner.	33° 00.7´ S 17° 59.4´ E	**F.G.**				
25936 *D 5833*	-Elandspunt.	33° 04.1´ S 17° 58.5´ E	**Fl.W.** period 5s	112 **34**	9	Metal framework tower.	
25940 *D 5832*	-Entrance Range, front.	33° 02.8´ S 18° 02.6´ E	**Q.W.**	89 **27**	9	Lattice tower; 39.	Also shown by day.
25944 *D 5832.1*	--Rear, 800 meters 080° from front.	33° 02.8´ S 18° 03.2´ E	**Iso.W.** period 6s	151 **46**	12	Latttice tower; 116.	Also shown by day.
25945 *D 5848*	-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 *D 5849*	--E. breakwater, head.	33° 02.8´ S 18° 02.4´ E	**Fl.G.** period 2s	20 **6**	6	White concrete structure; 10.	
25948 *D 5831*	-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 *D 5860*	**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, 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 *D 5867*	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 *D 5867.1*	-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 *D 5870*	**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 *D 5884*	-Entrance Range, front.	33° 47.8´ S 18° 22.6´ E	**Q.R.**		2	Grey pole; 33.	
25970.5 *D 5884.1*	--Rear, 447 meters 309° from front.	33° 47.6´ S 18° 22.3´ E	**Q.W.**		3	Grey pole; 66.	
25972 *D 5880*	-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 *D 5880.5*	--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.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SOUTH AFRICA				
25974	*Fairway buoy.*	33° 51.9′ S 18° 25.7′ E	**Iso.W.**			SAFE WATER RW, pillar, topmark.	
	RACON		**NW(– • • – –)**		12		
	TABLE BAY:						
25976 *D 5910*	**-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		Visible 114°-139°.
25980 *D 5900*	**-Green Point.**	33° 54.1′ S 18° 24.0′ E	**Fl.W.** period 10s	62 **19**	**25**	White square tower, red diagonal bands, red dome; 52.	Visible 045°-255°. **Horn:** 1 bl. ev. 30s.
25984 *D 5903*	-Granger Bay, Mouille Point, jetty, head.	33° 53.9′ S 18° 24.9′ E	**Q.G.**	26 **8**	5	White pole, green bands.	
25986 *D 5905*	--S. breakwater, head.	33° 54.0′ S 18° 24.9′ E	**Q.R.**	20 **6**	5	White pole, red bands.	
	CAPE TOWN:						
25988 *D 5930*	-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 *D 5934*	--N. side of entrance.	33° 54.1′ S 18° 25.6′ E	**F.G.** (neon)	20 **6**		Framework tower, concrete column.	
25996 *D 5934.2*	--S. side of entrance.	33° 54.2′ S 18° 25.7′ E	**F.R.** (neon)	20 **6**	6	Framework tower, concrete column.	
	-Ben Shoeman Dock:						
26000 *D 5935*	--Entrance Range, front.	33° 55.1′ S 18° 27.3′ E	**Fl.R.** period 4s fl. 1s, ec. 3s	118 **36**		Framework tower.	
26004 *D 5935.1*	---Rear, 285 meters 131°30′ from front.	33° 55.2′ S 18° 27.5′ E	**Iso.W.** period 4s	154 **47**		Framework tower.	
26008 *D 5936*	--Channel Range, front.	33° 55.1′ S 18° 27.3′ E	**F.R.**	118 **36**		Framework tower.	
26012 *D 5936.1*	---Rear, 315 meters 131°30′ from front.	33° 55.2′ S 18° 27.5′ E	**F.W.**	154 **47**		Framework tower.	
	-Schoeman Dock:						
26016 *D 5937*	--N. wall, head.	33° 54.2′ S 18° 26.4′ E	**Fl.R.** period 2s				
26020 *D 5938*	-N. side of entrance.	33° 54.2′ S 18° 26.4′ E	**F.R.**			Mast, concrete column.	F.R. neon strip, over F.R. horizontal strip directional along entrance channel.
26024 *D 5938.4*	-S. side of entrance.	33° 54.4′ S 18° 26.3′ E	**F.G.**			Mast, concrete column.	F.G. neon strip, over F.G. horizontal strip directional along entrance channel.
26028 *D 5939*	-Ro-Ro Jetty, head.	33° 55.0′ S 18° 27.0′ E	**Q.Y.**	30 **9**	5		
	-Duncan Dock:						
26032 *D 5940*	--N. mole, spur jetty, head.	33° 54.3′ S 18° 26.2′ E	**Fl.G.** (neon) period 2s				

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
	SOUTH AFRICA						
26036 *D 5942*	--N. Mole, head.	33° 54.4′ S 18° 26.2′ E	**F.G.** (neon)	23 **7**	11		
26040 *D 5943*	--E. mole, head.	33° 54.5′ S 18° 26.0′ E	**F.R.** (neon)	23 **7**	9		
26044 *D 5953*	-Lay-Up Basin, W. mole, head.	33° 55.0′ S 18° 27.0′ E	**F.G.** (neon)	16 **5**	5	Concrete column.	
26048 *D 5954*	--E. mole, head.	33° 55.1′ S 18° 27.0′ E	**F.R.** (neon)	16 **5**	5	Concrete column.	
26049 *D 5929*	--Entrance Range, front.	33° 54.9′ S 18° 25.9′ E	**Q.R.**	138 **42**	13	Gray mast.	
26049.1 *D 5929.1*	---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 *D 5958*	--Landing wharf.	33° 54.8′ S 18° 26.5′ E	**Q.Y.**				
26051 *D 5960*	--Repair pier, head.	33° 54.9′ S 18° 26.4′ E	**F.Y.**				
26056 *D 6000*	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 *D 6002*	-N. breakwater.	34° 03.0′ S 18° 21.0′ E	**Fl.G.** period 2s	20 **6**	2	Orange hut.	
26064 *D 6110*	**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 *D 4800*	--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 *D 4800.1*	---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 *D 4804*	--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 *D 4804.1*	---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 *D 4812*	--Near Zymotic Hopsital.	7° 55.9′ S 14° 25.1′ W	**F.R.**	70 **21**	4	White concrete pillar, red diagonal stripe; 16.	
	ST. HELENA (U.K.):						
	-James Bay:						
26100 *D 4904*	--Entrance Range, front.	15° 55.5′ S 5° 43.2′ W	**Fl.G.** period 3s	469 **143**	3	White triangular beacon; 6.	
26104 *D 4904.1*	---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.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SOUTH ATLANTIC ISLANDS				
26108 *D 4906*	-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		Visible 097°-241°.
26112 *D 4908*	-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 N0N.	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 N0N, 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 N0N, 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 N0N, A2A.	AERO.
1550	Graciosa	39° 05.8´ N 28° 00.9´ W	**GRA** **(– – • • – • • –).**	100		283 N0N, A2A.	AERO.
1570	Santa Maria	37° 00.0´ N 25° 11.0´ W	**SMA** **(• • • – – • –).**	300		323 N0N, 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.
			AFRICA - WEST COAST				
1680	Nouakchott, Mauritania	18° 05.0´ N 15° 58.0´ W	**KC** **(– • – – • – •).**	100		297 A1A.	AERO.

(1) No.	(2) Name	(3) Position	(4) Characteristic	(5) Range	(6) Sequence	(7) Frequency	(8) Remarks
			AFRICA - WEST COAST				
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 N0N, 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 N0N, A2A.	AERO.
			ANGOLA				
1860	Cabinda	5° 37.0´ S 12° 12.0´ E	**CA** **(– • – • • –).**	100		280 N0N, A2A.	AERO.
1870	Soyo	6° 08.3´ S 12° 22.4´ E	**SZ** **(• • • – – • •).**	75		310 N0N, A1A.	AERO.
1880	N'gunza	11° 10.3´ S 13° 51.0´ E	**NR** **(– • • – •).**	50		320 N0N, 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		

A

Aber Ildut 52
ABIDJAN 24802
Abu Qir 21330
Acciaroli 9640
Achuyev 18904
Acicastello 10428
Ada Burnu 17156
Adasi 20592
Adatepe Burnu-Bademli 19808
Adra 4424
Adrasan Limani 20624
Adzhigiol'skay Kosy 18080
Adzhigol'skiy 18068
Ag. Ermioni 19932
AGADIR 23244
Agios Andreas 16266
Agios Fokas 15824
AGIP 11368
Agronivest 16406
Agropoli 9632
Aguilas 4524
Ahirkapi Burnu (Istanbul) 17340
Aigial 15985
Aiyina 15256
AJACCIO 8008
Ajim 21784
Akantia 20434
Akbuk-Panayir Adasi 20162
Akhail Kindgi 19232
Akhladhi 15714
Akhtopol 17540
Akko (Acre) 21204
Ak-Liman 19528
Akra (Dhrepanon) 16668
Akra Achpas 16788
Akra Agios Stefanes 20572
Akra Akheradha 16572
Akra Akra 14512
Akra Akrathos 16696
Akra Akrotiri 16848
Akra Amfiali (Ormos Skaramanga) 15468
Akra Ammodhis 16760
Akra Ammoglossa 20244
Akra Andirrion 14784
Akra Andromakhi 14812
Akra Anemomilos 14432
Akra Angistro 20140
Akra Apolitares 15076
Akra Araxos 14744
Akra Arilla 14452
Akra Arkitsa 16360
Akra Armenistis 15804
Akra Armenistis (Strephoni) 20080
Akra Artemision 16516
Akra Aspri 20092
Akra Aspro Khorti 15112
Akra Astros 15124
Akra Aviaki 20360
Akra Ayios Dhomenikos 20052
Akra Ayios Fokas 20264
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D1858	2854
D1860	2856
D1862	2860
D1864	2864
D1865.6	2866
D1866	2868
D1870	2880
D1872	2888
D1873	2896
D1873.4	2900
D1874	2904
D1876	2908
D1876.1	2912
D1882	2916
D1884	2920
D1886	2924
D1888	2928
D1889	2932
D1890	2940
D1890.1	2944
D1891	2936
D1892	2960
D1893	2948
D1893.1	2949
D1894	2956
D1894.5	2962
D1895	2964
D1895.4	2968
D1895.5	2970
D1895.55	2957
D1895.6	3016
D1895.7	2978
D1895.8	2976
D1895.9	2980
D1895.94	2971
D1895.97	2971.2
D1895.98	2971.3
D1896	2972
D1897	3004
D1898	2988
D1900	2992
D1900.2	2996
D1901	3000
D1901.2	3002
D1901.3	3010
D1901.5	3012
D1901.6	3020
D1902	3024
D1902.6	3029
D1904.4	3013
D1904.6	3014
D1907	2938
D1911	3040
D1911.1	3044
D1912	3032
D1914	3048
D1916	3052
D1920.5	3066
D1921	3068
D1924	3072
D2002	3076
D2003	3080
D2003.1	3084
D2006	3090
D2008	3096
D2012	3100
D2012.1	3104
D2012.8	3099
D2015.1	3124
D2016	3128
D2016.2	3132
D2016.21	3136
D2020.4	3160
D2020.6	3164
D2023	3196
D2023.1	3200
D2023.7	3204
D2024	3188
D2024.1	3192

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

Inter.	U.S.
D2027	3208
D2027.1	3212
D2028.4	3216
D2028.5	3220
D2029	3224
D2029.1	3228
D2032	3236
D2034	3240
D2036	3244
D2037	3249
D2038	3248
D2045	3253
D2045.5	3254
D2047	3255
D2047.1	3255.5
D2052	3264
D2052.1	3268
D2052.5	3269
D2056	3272
D2057	3271
D2059.59	3270
D2060	3284
D2066	3296
D2068	3300
D2069	3304
D2069.1	3308
D2072	3312
D2074	3316
D2076	3320
D2078	3324
D2078.1	3328
D2084	3332
D2086	3336
D2088	3340
D2094	3356
D2096	3352
D2098	3360
D2100	3364
D2102	3368
D2106	3372
D2108	3376
D2110	3380
D2114	3389
D2118	3388
D2119	3390
D2119.1	3390.5
D2123	3398
D2124	3400
D2126	3404
D2126.2	3402
D2126.25	3401
D2126.5	3406
D2126.55	3406.2
D2127	3408
D2127.1	3410
D2127.15	3414
D2127.18	3439
D2127.181	3439.2
D2127.182	3439.4
D2127.183	3439.6
D2127.2	3438
D2127.25	3438.5
D2127.3	3413
D2127.31	3413.3
D2127.4	3416
D2127.6	3420
D2128	3432
D2128.5	3436
D2129	3424
D2129.2	3428
D2130	3440
D2130.2	3444
D2130.4	3448
D2130.6	3452
D2132	3453
D2132.2	3453.5
D2133.4	3462
D2134.2	3464
D2134.21	3468
D2134.3	3480
D2134.35	3481
D2134.46	3463
D2135.8	3488
D2136	3492
D2136.1	3496
D2136.25	3504
D2136.5	3505
D2138.5	3507
D2139	3508
D2140	3512
D2142	3520
D2142.1	3524
D2144	3516
D2144.2	3518
D2145	3526
D2145.1	3526.1
D2145.2	3526.2
D2145.3	3526.3
D2145.31	3526.4
D2146	3527
D2146.1	3527.1
D2146.2	3527.2
D2150	3556
D2150.22	3532
D2150.26	3540
D2150.28	3544
D2150.34	3566
D2150.37	3566.1
D2150.4	3560
D2151	3564
D2151.1	3568
D2152	3548
D2152.1	3552
D2152.3	3565
D2152.5	3565.1
D2152.7	3565.2
D2152.9	3565.3
D2156.5	3566.2
D2156.6	3566.3
D2156.8	3566.4
D2156.9	3566.5
D2157.3	3569.5
D2157.4	3569
D2158	3570
D2160	3572
D2160.16	3583
D2160.36	3582
D2160.5	3587
D2160.6	3588
D2161	3592
D2161.1	3596
D2162	3600
D2164	3604
D2165	3608
D2165.1	3612
D2168	3616
D2170	3620
D2171	3622
D2172.3	3623
D2174	3624
D2175	3628
D2176	3632
D2178	3644
D2179	3648
D2179.2	3652
D2181	3656
D2181.1	3660
D2192	3684
D2194	3688
D2196	3692
D2197	3700
D2197.2	3716
D2197.3	3708
D2197.4	3712
D2206	3724
D2206.1	3736
D2208	3728
D2209	3732
D2211	3748
D2212	3752
D2218	3760
D2219	3761
D2221	3740
D2221.1	3744
D2222	3756
D2230.1	3772
D2232.8	3778
D2234	3780
D2234.1	3784
D2235	3796
D2235.2	3797
D2246	3816
D2249	3800
D2305	3820
D2312	3828
D2315	3862
D2315.75	3862.5
D2319	3836
D2320	3844
D2321	3861
D2324.05	3845
D2328.1	3845.1
D2328.15	3845.12
D2328.18	3845.13
D2328.2	3846
D2328.3	3846.1
D2328.7	3846.5
D2328.75	3846.51
D2330	3849
D2332.1	3850
D2335.2	3851
D2335.3	3851.5
D2335.35	3851.6
D2335.38	3852.1
D2335.39	3852.11
D2335.4	3852.6
D2335.42	3852.5
D2338.5	3853
D2341	3854
D2345	3863
D2346	3877
D2348.5	3864
D2348.51	3868
D2349	3872
D2349.1	3876
D2350.4	3882
D2351	3880
D2352	3884
D2355	3900
D2355.2	3908
D2355.4	3912
D2355.5	3914
D2357	3928
D2358	3932
D2359	3920
D2359.1	3924
D2362	3940
D2367	3960
D2367.2	3958
D2367.5	3969
D2367.7	3970
D2368	3968
D2371.3	3977
D2372	3984
D2372.1	3984.2
D2372.15	3984.4
D2373	3980
D2373.4	3988
D2373.7	3984.1
D2374	3992
D2375	3996
D2375.3	3998
D2375.35	3999
D2375.36	4000
D2375.37	4001
D2375.5	4002
D2376	4008
D2377	4012
D2377.1	4016
D2377.4	4020
D2380	3950
D2380.1	3950.1
D2381	4032
D2381.2	4036
D2382	4037
D2382.3	4038
D2383	4048
D2383.4	4050
D2385.2	4049
D2385.6	4056
D2385.7	4041
D2388	4060
D2398	4064
D2398.1	4068
D2404	4072
D2404.1	4076
D2405	4077
D2405.4	4078
D2406	4080
D2408	4084

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

Inter.	U.S.
D2409	4088
D2410	4092
D2411.5	4110
D2412	4112
D2414	4116
D2415	4118
D2416	4124
D2418	4120
D2420	4128
D2423.2	4132
D2423.5	4140.5
D2424.7	4140
D2424.8	4139
D2424.9	4139.5
D2424.94	4138
D2425	4136
D2425.2	4138.5
D2425.3	4142
D2425.35	4154
D2425.4	4143
D2425.66	4145
D2425.7	4149
D2425.72	4147
D2425.74	4151
D2430	4166
D2430.01	4166.51
D2430.013	4166.5
D2430.015	4166.52
D2430.2	4167
D2431	4167.2
D2431.2	4167.3
D2431.6	4172
D2432	4168
D2434.2	4184
D2434.4	4180
D2436.6	4204
D2436.7	4208
D2436.74	4214.6
D2436.75	4214.5
D2436.78	4214.7
D2436.8	4216
D2436.81	4214
D2437.05	4215
D2437.055	4215.1
D2437.075	4215.2
D2437.08	4215.3
D2438	4220
D2442	4224
D2445	4228
D2446	4232
D2448	4236
D2448.5	4238
D2449.3	4241.4
D2449.4	4241.5
D2449.5	4241.6
D2449.6	4241.7
D2450.7	4244
D2451.5	4242
D2456	4256
D2482	22840
D2484	22848
D2486	22844
D2487	22852
D2488	22856
D2490	22860
D2490.5	22858
D2492	22862
D2492.5	22863
D2493	22864
D2496	22868
D2498	22872
D2500	22880
D2502	22888
D2503	22892
D2504	22884
D2506	22885
D2507	22886
D2510	22896
D2512	22900
D2514	22904
D2514.1	22908
D2522	22916
D2524	22920
D2524.1	22924
D2526	22928
D2526.1	22932
D2528	22934
D2532	22912
D2537	22938
D2540	22940
D2540.1	22944
D2541	22992
D2542	22948
D2543	22952
D2543.2	22956
D2544	22960
D2544.1	22964
D2544.5	22968
D2544.6	22972
D2545	22976
D2545.1	22980
D2545.3	22984
D2545.4	22988
D2546	22996
D2546.1	23000
D2546.3	23008
D2546.4	23012
D2546.6	23004
D2547	23016
D2547.1	23020
D2547.4	23024
D2547.5	23028
D2548.4	23032
D2554	23036
D2557	23048
D2558.4	23054
D2559	23056
D2559.1	23060
D2561	23076
D2561.1	23080
D2562	23072
D2563	23068
D2566	23096
D2567	23100
D2568.1	23128
D2569	23108
D2569.2	23114
D2570	23104
D2570.2	23112
D2572	23116
D2574	23132
D2576	23136
D2582	23140
D2584	23148
D2586	23152
D2587	23156
D2587.5	23150
D2588	23144
D2590	23160
D2590.5	23162
D2591	23164
D2591.2	23168
D2591.4	23172
D2591.8	23173
D2592	23176
D2595	23180
D2595.4	23184
D2596	23196
D2596.2	23200
D2596.6	23201
D2598	23204
D2599	23188
D2600	23208
D2601	23214
D2602	23216
D2602.1	23220
D2602.2	23224
D2602.4	23228
D2604	23232
D2608	23236
D2611	23244
D2612	23248
D2613	23253
D2613.2	23254
D2613.6	23254.5
D2614	23255
D2615	23255.5
D2616	23256
D2616.2	23257
D2616.4	23258
D2616.6	23260
D2617	23264
D2619	23270
D2621	24264
D2622	24268
D2623	24276
D2623.2	24280
D2626	24288
D2628	24292
D2628.2	24296
D2630	24300
D2631	24304
D2632	23664
D2632.1	23666
D2632.2	23702
D2632.3	23696
D2632.4	23700
D2633	23692
D2633.7	23684
D2633.71	23688
D2634	23680
D2635	23669
D2635.3	23670
D2636	23668
D2638	23704
D2640	23636
D2641	23630
D2642	23628
D2642.4	23627
D2642.5	23626
D2645	23612
D2645.45	23609
D2645.5	23606
D2646	23608
D2647	23584
D2648	23594
D2648.5	23593
D2648.7	23595.1
D2648.72	23595.2
D2649.5	23599
D2649.7	23601
D2652	23598
D2654	23580
D2654.2	23604
D2655	23568
D2655.4	23572
D2655.6	23576
D2656	23648
D2656.9	23650
D2659	23640
D2659.4	23644
D2660	23512
D2661	23516
D2662	23524
D2662.5	23525
D2663.5	23528
D2664	23532
D2665	23536
D2666	23540
D2666.1	23558
D2666.2	23544
D2666.21	23548
D2666.5	23556
D2666.7	23560
D2667	23564
D2668	23504
D2669	23508
D2670	23484
D2672.3	23489
D2672.35	23489.1
D2672.5	23490
D2672.7	23491
D2674	23488
D2676	23500
D2677	23496
D2680	23480
D2680.2	23472
D2681.2	23477
D2681.5	23468
D2681.8	23466
D2682.2	23456
D2682.3	23457
D2682.4	23460
D2682.5	23464
D2683	23448
D2683.5	23482
D2684	23372
D2684.1	23376
D2687.2	23360
D2687.5	23364

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

Inter.	U.S.
D2687.51	23368
D2688	23408
D2688.2	23410
D2689	23428
D2689.4	23432
D2689.41	23436
D2690	23404
D2690.02	23420
D2690.03	23424
D2690.1	23440
D2690.11	23444
D2690.15	23400
D2690.9	23385
D2691	23380
D2691.4	23377
D2691.41	23377.1
D2692	23344
D2693	23318
D2694	23320
D2696	23324
D2697	23328
D2697.1	23332
D2697.5	23342
D2698	23336
D2698.1	23340
D2699	23348
D2700	23346
D2702	23304
D2702.4	23308
D2702.41	23312
D2703	23296
D2703.1	23300
D2704	23288
D2705	23289
D2706	23292
D2708	23316
D2712	23280
D2713	23282
D2714	23284
D2720	23748
D2722	23752
D2726	23740
D2728	23732
D2730	23736
D2738	23728
D2741.3	23727.9
D2741.5	23727.6
D2743	23726
D2744	23724
D2746	23720
D2750	23716
D2752	23712
D2754	23708
D2755	23744
D2755.5	23746
D2756	23756
D2757	23766
D2757.2	23765
D2757.3	23767.5
D2762	23768
D2763	23767
D2768	23776
D2769	23772
D2772	24076
D2773.6	24055
D2773.8	24054
D2775	24056
D2777	24053
D2778	24053.2
D2778.2	24053.4
D2778.4	24053.6
D2778.6	24053.8
D2780	24052
D2781	24050
D2781.5	24049
D2782	24048
D2786	24044
D2790	24024
D2791	24026
D2792	24040
D2793	24042
D2793.5	24034
D2794	24036
D2794.2	24037
D2795	24032
D2796	24033.5
D2796.1	24033
D2796.5	24027
D2798	23932
D2799	23936
D2799.2	23934
D2799.3	23935
D2799.4	23938
D2799.5	23939
D2799.6	23940
D2799.66	23942
D2799.67	23942.1
D2799.7	23960
D2800.1	23964
D2800.2	23956.5
D2800.42	23948
D2800.5	23943
D2801	23968
D2801.2	23956
D2801.3	23956.8
D2801.9	23987
D2803	23945.1
D2803.2	23945
D2803.3	23953
D2803.35	23954
D2803.37	23955
D2804	23976
D2806	23980
D2807	23984
D2807.35	23989.5
D2807.36	23989
D2807.37	23988
D2807.5	23990
D2809	23996
D2809.4	24000
D2812	24008
D2814	24012
D2815	24014
D2815.2	24014.2
D2815.22	24014.4
D2815.4	24016
D2815.45	24020
D2815.6	24022.2
D2815.7	24022
D2815.8	24022.6
D2815.82	24022.4
D2815.94	24023.7
D2815.96	24023
D2815.98	24023.5
D2816	23928
D2818	23854
D2820	23852
D2821	23856
D2822	23868
D2822.4	23872
D2822.45	23873
D2822.46	23874
D2822.6	23860
D2822.7	23864
D2822.8	23859
D2826	23876
D2826.2	23880
D2826.4	23884
D2826.5	23886
D2826.7	23916
D2826.72	23912
D2826.74	23913
D2826.78	23909
D2826.82	23917
D2826.86	23908
D2826.87	23911
D2826.9	23910
D2826.91	23910.5
D2827	23904
D2827.2	23900
D2827.21	23900.1
D2827.4	23905
D2827.41	23905.1
D2827.9	23918
D2827.93	23919
D2827.94	23920
D2827.98	23924
D2829	23828
D2830	23832
D2831	23836
D2831.5	23892
D2831.6	23888
D2831.8	23838
D2832	23840
D2833	23842
D2834	23844
D2835	23848
D2836	23808
D2837	23810
D2838	23804
D2842	23812
D2844.75	23816
D2844.9	23825.5
D2845	23825
D2845.5	23826
D2846	23780
D2847.2	23797.2
D2847.5	23797.3
D2848.4	23794
D2848.45	23784
D2848.5	23796
D2849	23797
D2849.3	23785
D2849.35	23785.1
D2849.51	23798
D2850	23800
D2851	23801
D2852	23802
D2872	24200
D2874	24202
D2875	24203
D2875.5	24201
D2876	24204
D2881.5	24209
D2882	24210
D2883.5	24211
D2883.6	24218
D2883.7	24212
D2883.8	24213
D2884	24217
D2885	24216
D2888	24214
D2890	24215
D2898	24256
D2900	24252
D2901	24244
D2904	24260
D2908	24236
D2910	24240
D2914	24196
D2916	24197
D2918	24192
D2919	24193
D2919.5	24198
D2919.75	24147
D2920	24156
D2920.1	24160
D2921	24148
D2921.1	24152
D2922	24164
D2922.5	24168
D2923	24176
D2923.1	24180
D2923.2	24184
D2923.3	24188
D2925	24172
D2930	24144
D2933.1	24135
D2933.2	24134
D2934	24132
D2936	24136
D2939.5	24130
D2942	24100
D2943	24104
D2943.4	24116
D2943.41	24120
D2943.6	24124
D2943.61	24128
D2944	24108
D2946	24096
D2950	24080
D2952	24088
D2954	24092
D2956	24084
D2972	24308
D2973	24316
D2973.5	24314
D2974.2	24312
D2975	24320
D2975.2	24324

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

Inter.	U.S.
D2975.3	24328
D2975.6	24332
D2976	24336
D2977	24340
D2977.5	24344
D2978	24348
D2978.4	24352
D2978.5	24356
D2979	24360
D2980	24364
D2982	24368
D2986	24373
D2986.3	24373.1
D2986.31	24373.2
D2986.4	24373.3
D2986.5	24374
D2996	24380
D2998	24384
D3002	24388
D3004	24392
D3008	24396
D3008.2	24400
D3010	24404
D3012	24408
D3013	24412
D3018	24440
D3019	24444
D3021	24452
D3027	24464
D3027.5	24465
D3030	24468
D3042	24484
D3044	24492
D3050	24500
D3052	24504
D3053	24506
D3054	24508
D3056	24512
D3057	24520
D3058	24524
D3059	24545
D3060	24540
D3060.1	24544
D3062	24532
D3064	24552
D3065	24556
D3070	24564
D3071	24565
D3072	24568
D3074	24576
D3078	24580
D3080	24596
D3081	24588
D3084	24600
D3086	24604
D3086.1	24608
D3087	24612
D3088	24616
D3090	24620
D3093	24636
D3094	24640
D3096	24648
D3098	24656
D3098.5	24664
D3099	24668
D3100.2	24672
D3101	24676
D3101.1	24680
D3101.4	24684
D3101.6	24688
D3102	24692
D3105	24696
D3106	24704
D3107	24700
D3108	24708
D3108.1	24712
D3110.5	24716
D3111	24720
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D3112.4	24740
D3112.6	24744
D3112.9	24728
D3113	24730
D3113.1	24732
D3113.3	24734
D3113.31	24736
D3113.8	24748
D3114	24752
D3115	24758
D3115.5	24756
D3116	24760
D3118	24764
D3120	24768
D3120.2	24784
D3120.4	24776
D3120.41	24780
D3122	24788
D3123	24792
D3125	24796
D3126	24798
D3127	24840
D3128	24804
D3129	24812
D3130	24816
D3130.1	24820
D3131	24824
D3131.1	24828
D3134	24832
D3135	24836
D3137.5	24843
D3138	24844
D3140	24848
D3145	24852
D3146	24856
D3148	24860
D3151	24864
D3155	24872
D3155.1	24868
D3155.4	24876
D3156	24880
D3162	24884
D3166	24892
D3167	24896
D3167.2	24904
D3167.4	24908
D3167.45	24910
D3167.46	24910.5
D3167.5	24915
D3167.52	24916
D3167.6	24920
D3167.8	24921
D3168	24924
D3171	24928
D3173	24944
D3174	24932
D3174.2	24936
D3176	24948
D3178	24952
D3179	24956
D3180	24960
D3181	24964
D3870	24968
D3873	24976
D3878	24992
D3881	24996
D3884	25004
D3885	25008
D3885.5	25012
D3886	25016
D3886.3	25018
D3888	25032
D3900	25036
D3904	25044
D3906	25048
D3930	25056
D3940	25064
D3944	25068
D3980	25212
D3981	25213
D3990	25084
D4000	25100
D4006	25096
D4008	25088
D4008.1	25092
D4018	25104
D4028	25136
D4032	25120
D4036	25124
D4036.1	25128
D4039	25116
D4040	25112
D4043	25140
D4046	25144
D4051	25146
D4056	25156
D4060	25164
D4064	25160
D4134	25236
D4134.1	25240
D4149	25175
D4154	25172
D4154.2	25177
D4155	25176
D4158	25180
D4158.5	25174
D4159	25174.5
D4160	25182
D4170	25248
D4174	25256
D4175	25252
D4175.5	25260
D4176	25264
D4177	25272
D4180	25268
D4190	25276
D4200	25300
D4210	25288
D4230	25184
D4234	25196
D4234.1	25200
D4237	25192
D4238	25201
D4239	25202
D4241	25204
D4242	25205
D4243	25183
D4248	25208
D4249	25210
D4260	25304
D4272	25312
D4274	25314
D4276	25316
D4284	25348
D4284.2	25344
D4286	25356
D4287.5	25364
D4290	25372
D4290.1	25373
D4291	25372.3
D4311	25452
D4314	25476
D4315	25460
D4315.1	25464
D4319	25484
D4326	25492
D4332	25496
D4332.1	25500
D4340	25504
D4342.5	25506
D4343	25508
D4343.1	25512
D4370	25516
D4380	25528
D4382	25532
D4384	25536
D4384.1	25540
D4390	25524
D4800	26072
D4800.1	26076
D4804	26080
D4804.1	26084
D4812	26092
D4904	26100
D4904.1	26104
D4906	26108
D4908	26112
D5003	25556
D5006	25560
D5040	25564
D5060	25568
D5080	25572
D5100	25576
D5101	25584
D5104	25596
D5150	25600
D5180	25604
D5200	25608
D5224	25624
D5226	25612
D5228	25616

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

Inter.	U.S.
D5228.2	25620
D5240	25628
D5250	25632
D5270	25636
D5280	25640
D5288	25644
D5300	25652
D5300.1	25656
D5304	25660
D5304.2	25662
D5312	25648
D5324	25664
D5328	25668
D5336	25672
D5346	25676
D5356	25680
D5370	25684
D5400	25688
D5404	25692
D5404.1	25696
D5414	25708
D5418	25700
D5420	25704
D5430	25712
D5436	25716
D5442	25720
D5460	25724
D5464	25728
D5510	25752
D5520	25756
D5522	25768
D5522.1	25772
D5528	25784
D5531	25785
D5600	25788
D5606	25808
D5607	25792
D5607.1	25796
D5608	25812
D5660	25824
D5660.1	25828
D5704	25832
D5705	25836
D5720	25838
D5734	25840
D5770	25844
D5772	25852
D5773	25848
D5774	25860
D5790	25864
D5791	25868
D5792	25872
D5792.2	25874
D5794	25876
D5798	25880
D5801	25884
D5803	25888
D5810	25892
D5830	25896
D5831	25948
D5832	25940
D5832.1	25944
D5833	25936
D5834	25900
D5836	25902
D5838	25904
D5840	25908
D5841.1	25932
D5843	25925
D5847	25916
D5847.1	25920
D5848	25945
D5849	25945.5
D5860	25956
D5867	25960
D5867.1	25964
D5870	25968
D5880	25972
D5880.5	25973
D5884	25970
D5884.1	25970.5
D5900	25980
D5903	25984
D5905	25986
D5910	25976
D5929	26049
D5929.1	26049.1
D5930	25988
D5934	25992
D5934.2	25996
D5935	26000
D5935.1	26004
D5936	26008
D5936.1	26012
D5937	26016
D5938	26020
D5938.4	26024
D5939	26028
D5940	26032
D5942	26036
D5943	26040
D5953	26044
D5954	26048
D5958	26050
D5960	26051
D6000	26056
D6002	26060
D6110	26064
D8100	1891
D8542.2	24842
D8580.6	25038
D8581.7	25049
D8584.4	25058
D8588.2	25070
D8588.6	25226
D8605	25388
D8605.2	25420
D8605.3	25424
D8605.4	25440
D8610	25444
D8625	25502
D8629	25544
D8633	25552
E0008	4264
E0008.2	4264.1
E0008.57	4264.2
E0012	4266
E0018	4268
E0018.3	4272
E0018.41	4276
E0020	4280
E0022	4282
E0022.2	4284
E0024	4288
E0031	4292
E0032	4296
E0032.2	4300
E0056	4304
E0057.6	4312
E0058	4320
E0058.5	4339
E0059	4340
E0059.4	4341
E0060.3	4334
E0060.4	4328
E0060.5	4324
E0060.6	4332
E0060.7	4336
E0060.8	4346
E0061	4348
E0062	4360
E0064	4364
E0064.5	4366
E0065	4366.5
E0065.3	4367
E0065.7	4367.2
E0066	4368
E0067	4376
E0067.5	4372
E0068	4380
E0069	4370
E0069.2	4371
E0069.4	4371.5
E0070	4384
E0070.2	4384.5
E0071	4390
E0071.2	4390.2
E0072	4392
E0073.2	4396
E0073.6	4404
E0073.7	4402
E0074	4408
E0074.8	4411
E0075	4409
E0075.2	4410
E0077	4411.5
E0080	4420
E0082	4422
E0086	22780
E0088	4424
E0088.4	4428
E0089.5	4430
E0090	4440
E0091	4432
E0091.6	4437
E0092	4444
E0092.4	4448
E0093	4452
E0094	4460
E0095	4456
E0095.5	4462
E0095.6	4461.1
E0095.65	4461
E0096	4464
E0098	4472
E0099	4468
E0100.4	4469
E0101	4474
E0101.4	4473
E0101.6	4473.5
E0102	4476
E0103	4484
E0106	4492
E0107.7	4495
E0108	4496
E0109	4500
E0109.2	4504
E0109.3	4508
E0109.4	4506
E0109.6	4510
E0109.7	4511
E0110	4512
E0111	4516
E0112	4520
E0113	4522
E0114	4524
E0116	4528
E0117.5	4532
E0120	4536
E0120.6	4540
E0120.7	4541
E0124	4548
E0125	4552
E0125.3	4556
E0125.6	4560
E0126	4564
E0126.02	4564.2
E0126.025	4564.1
E0126.1	4566
E0126.15	4567
E0126.2	4568
E0126.4	4569
E0126.5	4576.5
E0126.64	4576.8
E0126.65	4576.75
E0126.7	4577
E0126.75	4577.5
E0126.8	4577.4
E0126.81	4570
E0128	4588
E0130	4592
E0130.2	4590
E0130.5	4593
E0131	4594
E0131.2	4594.2
E0131.3	4594.4
E0132	4595
E0132.2	4595.5
E0132.5	4595.75
E0134	4596
E0136.8	4600
E0137	4604
E0137.3	4608
E0138	4616
E0139	4628
E0140	4624
E0140.2	4624.5
E0140.8	4611
E0140.851	4611.5
E0140.9	4611.7

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

Inter.	U.S.
E0141	4632
E0141.5	4636
E0146	4640
E0146.2	4644
E0146.4	4645
E0146.6	4646
E0147	4648
E0147.5	4650
E0148	4652
E0149	4656
E0152	4664
E0154	4668
E0155	4672
E0157	4676
E0158	4680
E0158.6	4682.5
E0159	4692
E0159.3	4696
E0160	4700
E0161	4684
E0162	4688
E0164	4702
E0166	4704
E0168	4708
E0168.5	4713
E0172	4716
E0172.5	4720
E0173.6	4724
E0174	4728
E0174.2	4732
E0174.4	4732.5
E0174.6	4732.75
E0174.9	4734
E0174.92	4733
E0174.93	4733.5
E0175.2	4740
E0175.4	4736
E0175.8	4741
E0176	5300
E0179	5304
E0179.4	5308
E0180	5312
E0184	5324
E0185	5332
E0186	5316
E0187	5328
E0187.5	5329
E0188	5333
E0188.5	5334
E0190	5338
E0190.2	5338.5
E0194	5340
E0196	5348
E0197	5352
E0197.2	5356
E0198	5360
E0199	5362
E0199.2	5362.2
E0199.82	5366
E0199.9	5365
E0200	5368
E0200.1	5370
E0200.2	5366.2
E0200.3	5369
E0200.4	5372
E0200.5	5368.5
E0201.11	5421.6
E0201.15	5374
E0201.2	5380
E0201.4	5384
E0201.5	5376
E0202	5388
E0203.4	5400
E0204	5404
E0204.2	5408
E0205	5412
E0208.6	5422
E0208.65	5423
E0209	5364
E0209.6	5424
E0209.7	5424.5
E0210	5425
E0210.75	5427
E0210.8	5425.5
E0210.9	5429
E0211	5425.6
E0212.1	5425.7
E0212.18	5434
E0212.2	5433
E0212.6	5448
E0214	5432
E0214.6	5440
E0214.7	5442
E0216	5452
E0217	5449
E0217.2	5449.5
E0217.4	5450
E0217.5	5450.5
E0218	5454
E0219	5456
E0220	5460
E0221	5464
E0222	5504
E0222.2	5508
E0222.4	5512
E0224	5476
E0226	5480
E0226.1	5482
E0226.2	5488
E0226.4	5492
E0226.5	5483
E0229.2	5496
E0229.3	5484
E0229.4	5486
E0229.7	5514
E0230	5516
E0231	5519
E0231.6	5518
E0232	5520
E0234	5528
E0234.4	5524
E0238	5532
E0239	5536
E0239.2	5541
E0239.4	5540
E0244	5544
E0244.5	5546
E0246	5552
E0246.5	5550
E0246.6	5551
E0248	5548
E0248.5	5549
E0250	4744
E0251	4748
E0252	4752
E0253	4756
E0253.5	4774
E0254	4772
E0256	4768
E0258	4776
E0260	4780
E0262	4844
E0262.5	4811
E0263	4809
E0264	4808
E0264.2	4810.1
E0264.3	4810.2
E0264.4	4815
E0264.5	4817
E0264.6	4818
E0265	4820
E0265.6	4821
E0265.8	4821.5
E0265.9	4822
E0266	4824
E0266.1	4823
E0266.2	4828
E0266.3	4823.1
E0267	4840
E0267.2	4842
E0267.8	4799
E0268	4800
E0270	4804
E0273	4796
E0273.3	4796.4
E0274	4784
E0276	4788
E0278	4848
E0282	5032
E0284	5036
E0286	5030
E0288	5044
E0289	5040
E0290	5048
E0291	5056
E0293	5060
E0293.2	5064
E0296	5068
E0298	5072
E0299	5084
E0299.5	5077
E0300.2	5080
E0301	5076
E0303	5090
E0303.2	5091
E0303.7	5086
E0304	5100
E0306	5096
E0306.5	5097
E0306.6	5099
E0307	5098
E0307.1	5104
E0307.16	5105
E0307.17	5107
E0307.19	5107.5
E0307.2	5108
E0308	5116
E0308.2	5120
E0308.6	5132
E0308.7	5128
E0309	5136
E0309.4	5140
E0310	5144
E0310.4	5148
E0311	5152
E0311.2	5154
E0311.4	5156
E0311.8	5160
E0311.9	5162
E0312.2	5164
E0312.6	5172
E0313	5176
E0314	4872
E0314.2	4885
E0314.4	4876
E0314.6	4880
E0314.8	4887
E0315	4884
E0315.8	4888
E0316	4892
E0316.3	4895
E0316.35	4895.1
E0316.4	4896
E0316.5	4896.5
E0316.55	4895.2
E0316.6	4895.5
E0316.7	4900
E0316.72	4901
E0316.74	4902
E0316.8	4912
E0316.82	4916
E0316.83	4920
E0316.84	4924
E0317	4904
E0317.2	4908
E0318	4936
E0318.3	4940
E0318.6	4944
E0318.8	4932
E0318.9	4934.5
E0319	4934
E0320	4935
E0322	4976
E0322.2	4980
E0326	4951.5
E0326.2	4951
E0328	4950
E0328.08	4946
E0328.3	4948
E0328.31	4949
E0328.32	4996
E0328.34	4968
E0328.36	4972
E0328.38	4960
E0328.39	4964
E0328.42	4952
E0328.7	5000
E0328.75	5004.1
E0328.8	5002
E0329	5006

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

Inter.	U.S.
E0329.6	5004
E0330	5008
E0332	5012
E0332.3	5012.3
E0332.65	5012.4
E0333	5013
E0333.2	5014
E0334	5016
E0336	5020
E0336.6	5024
E0336.8	5022
E0337	5028
E0338	4852
E0338.3	4856
E0338.6	4860
E0339	4864
E0340	4868
E0342	5184
E0344	5188
E0345	5192
E0345.4	5196
E0345.6	5200
E0345.8	5208
E0345.9	5204
E0346.2	5216
E0348	5220
E0350	5224
E0350.5	5226
E0351	5228
E0351.1	5232
E0352	5236
E0354	5240
E0355	5238
E0356	5252
E0358	5256
E0359	5260
E0360	5264
E0361	5268
E0361.4	5272
E0361.6	5276
E0361.65	5278
E0362	5284
E0362.4	5280
E0363.67	5277
E0364	5288
E0364.2	5292
E0364.4	5296
E0366	5180
E0367	5182
E0370	5568
E0370.3	5556
E0370.35	5560
E0370.6	5564
E0371	5565
E0371.2	5572
E0373	5576
E0374	5580
E0375	5592
E0376	5599
E0377	5598
E0380	5600
E0380.5	5608
E0380.55	5604
E0381	5610
E0381.5	5612
E0382.3	5614
E0382.4	5614.5
E0382.5	5615
E0382.6	5615.5
E0383	5620
E0384	5616
E0385	5624
E0385.5	5628
E0386	5632
E0386.1	5634
E0386.15	5635
E0386.6	5640
E0386.7	5641
E0386.71	5641.5
E0386.72	5641.2
E0388	5652
E0388.12	5682
E0388.16	5682.2
E0388.2	5662
E0388.35	5684
E0388.4	5660
E0389	5670
E0392	5676
E0392.1	5678
E0392.12	5679
E0392.3	5689
E0392.33	5690
E0392.37	5690.5
E0392.4	5691
E0392.6	5668
E0393	5664
E0393.2	5665
E0393.7	5691.5
E0393.8	5691.6
E0393.85	5691.7
E0394	5692
E0394.2	5696
E0394.4	5700
E0394.6	5704
E0394.8	5705
E0395	5706
E0396	5708
E0396.12	5718
E0396.14	5720
E0396.2	5712
E0396.3	5716
E0396.5	5732
E0396.52	5728
E0396.6	5736
E0396.62	5740
E0396.64	5744
E0396.8	5745
E0396.85	5746
E0396.9	5747
E0397	5748
E0398	5752
E0400	5760
E0401	5767
E0401.55	5761
E0401.58	5762
E0401.59	5763.5
E0401.65	5765
E0401.7	5763
E0404	5777
E0404.5	5777.5
E0405	5774
E0407.6	5780
E0407.62	5784
E0410.2	5785
E0418.5	5794
E0418.6	5793.1
E0418.62	5793
E0424	5792
E0434.4	5795
E0434.45	5796
E0434.591	5786
E0434.592	5788
E0434.71	5800
E0434.72	5802
E0434.73	5804
E0437	5864
E0439	5874
E0439.2	5874.5
E0439.3	5870
E0439.35	5872
E0439.5	5875
E0439.8	5875.4
E0440	5876
E0446	5880
E0446.5	5884
E0448	5888
E0452	5891
E0452.08	5893
E0452.1	5894
E0452.2	5892
E0452.7	5895
E0453	5896
E0456	5900
E0459	5912
E0460	5920
E0462	5916
E0464	5924
E0466.4	5927
E0466.6	5926
E0466.7	5928
E0466.75	5929
E0466.8	5930
E0467	5932
E0468	5936
E0470	5940
E0471.2	5942
E0472	5944
E0474	5948
E0474.4	5952
E0475.4	5956
E0475.42	5956.5
E0475.5	5960
E0475.52	5960.5
E0475.53	5961
E0475.54	5961.5
E0475.6	5964
E0475.7	5968
E0476	5972
E0479	5976
E0480	5980
E0484	5984
E0486	5988
E0488	5992
E0489	5996
E0490	6000
E0490.4	6004
E0492	6008
E0492.2	6009
E0495	6012
E0496	6020
E0497	6048
E0497.1	6052
E0498	6024
E0498.5	6028
E0504	6044
E0506	6032
E0508	6036
E0509	6040
E0512	6056
E0512.5	6060
E0512.6	6064
E0513	6068
E0514	6080
E0514.5	6072
E0515	6076
E0515.2	6077
E0516	6078
E0516.1	6078.5
E0517	6084
E0517.6	6092
E0517.7	6096
E0517.8	6097
E0517.9	6098
E0518	6088
E0522	6100
E0522.1	6100.1
E0524	6104
E0525	6106
E0525.2	6106.5
E0526	6107
E0526.2	6120
E0527.2	6113
E0527.5	6114
E0527.52	6115
E0527.65	6123
E0527.7	6122
E0527.8	6122.5
E0528	6112
E0529	6108
E0534	6128
E0535	6124
E0535.4	6132
E0536	6140
E0536.2	6144
E0538	6136
E0539	6152
E0540	6148
E0542	6154
E0544	6164
E0545	6162
E0546	6180
E0547	6196
E0547.5	6200
E0547.7	6204
E0547.77	6214
E0548	6212
E0550	6192
E0551	6188
E0552	6184
E0555	6232

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

Inter.	U.S.
E0556	6224
E0557	6228
E0557.2	6216
E0557.4	6214.2
E0557.6	6214.1
E0558	6221
E0558.2	6222
E0560	6236
E0561	6240
E0561.5	6241
E0562	6244
E0566	6248
E0576	6268
E0577	6264
E0577.4	6269
E0577.5	6270
E0578	6272
E0578.2	6280
E0579	6260
E0580	6276
E0582	6284
E0582.2	6288
E0583	6292
E0583.2	6296
E0583.4	6300
E0584.2	6304
E0584.4	6308
E0586	6320
E0590	6330
E0590.2	6331
E0592	6348
E0594	6344
E0597	6352
E0600	6356
E0600.5	6393
E0601.05	6394
E0602	6408
E0603	6404
E0603.7	6401
E0603.71	6402
E0604	6396
E0604.1	6400
E0604.5	6454
E0605	6450
E0605.2	6452
E0605.4	6453
E0606.2	6464
E0606.8	6456
E0606.9	6460
E0606.95	6465
E0606.98	6466
E0607	6468
E0607.2	6472
E0608	6480
E0609	6488
E0609.1	6492
E0609.4	6496
E0609.41	6500
E0609.5	6484
E0609.6	6485
E0609.8	6486
E0610	6504
E0610.2	6508
E0610.3	6509
E0610.4	6510
E0610.5	6512
E0610.6	6516
E0610.65	6517.1
E0610.68	6517.2
E0610.7	6518.1
E0610.8	6518.2
E0610.9	6519
E0611	6520
E0615	6524
E0615.4	6526
E0616.5	6523
E0616.8	6522
E0620	6540
E0622	6544
E0623.5	6548.5
E0624	6548
E0624.7	6549
E0624.8	6550
E0624.9	6551
E0625.3	6552
E0625.6	6556
E0628	6560
E0630	6564
E0630.01	6569.1
E0630.02	6569.2
E0630.04	6570.1
E0630.06	6570.2
E0630.2	6571
E0631	6568
E0634	6572
E0635	6580
E0635.4	6584
E0636	6592
E0637	6588
E0637.2	6600
E0637.6	6596
E0642	6604
E0643	6608
E0644	6616
E0646	6612
E0654	6620
E0655	6633
E0655.5	6634
E0656	6624
E0657	6632
E0660	6628
E0662	6636
E0666	6644
E0667	6648
E0668	6652
E0674	6656
E0676	6660
E0677	6668
E0678	6664
E0678.5	6662
E0679	6672
E0680	6688
E0681	6674
E0682	6676
E0682.5	6678
E0683	6684
E0684	6680
E0685	6692
E0686	6700
E0687	6696
E0690	6704
E0693	6716
E0693.3	6712
E0694	6708
E0695	6720
E0697	6724
E0698	6736
E0698.2	6732
E0698.4	6740
E0699	6742
E0700	6744
E0701	6748
E0702	6752
E0702.4	6756
E0704	6764
E0704.5	6766
E0706	6768
E0708	6772
E0709	6776
E0709.4	6780
E0709.6	6784
E0709.65	6776.5
E0709.75	6778
E0710	6760
E0712	6792
E0713	6788
E0714	6796
E0716	6820
E0717	6832
E0717.6	6822.1
E0717.8	6822
E0719	6828
E0719.5	6824
E0720	6836
E0721	6837
E0726	6852
E0727	6856
E0729	6844
E0730	6848
E0732	6849
E0734	6860
E0739	6864
E0739.1	6868
E0740	6872
E0740.2	6876
E0740.4	6880
E0741	6884
E0741.2	6835.5
E0741.6	6835
E0741.7	6835.1
E0741.8	6834
E0742	6840
E0744	6888
E0744.2	6889
E0744.3	6890
E0746	6892
E0748	6896
E0748.5	6898
E0749	6900
E0750	6904
E0751	6908
E0752	6912
E0753	6916
E0754	6920
E0754.2	6924
E0754.6	6928
E0754.7	6932
E0754.8	6936
E0755.6	6940
E0756	6944
E0757	6948
E0759	6952
E0760	6954
E0761	6953
E0762	6955
E0764	6956
E0765	6964
E0765.3	6972
E0765.4	6960
E0766	6968
E0769	6974
E0769.5	6975
E0770	6976
E0771	6984
E0772	6988
E0774	6992
E0778	7000
E0779	7004
E0784	7008
E0784.2	7012
E0784.6	7014
E0786	7016
E0786.2	7018
E0788	7024
E0788.4	7028
E0790	7020
E0791	7032
E0791.4	7036
E0791.7	7038
E0792.01	7041
E0792.4	7039
E0792.5	7039.5
E0793	7052
E0793.4	7048
E0794	7056
E0795	7060
E0795.5	7064
E0796	7068
E0796.8	7070
E0797	7072
E0797.8	7074
E0798	7076
E0798.4	7080
E0798.6	7082
E0799	7084
E0799.4	7088
E0800	7096
E0801	7092
E0803	7100
E0804	7104
E0805	7108
E0806	7112
E0808	7116
E0809	7106
E0810	7120
E0810.4	7122
E0811	7124
E0812.2	7128
E0814	7132
E0818	7136

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

Inter.	U.S.
E0818.6	7160
E0818.7	7164
E0819	7140
E0819.6	7144
E0821	7168
E0822	7184
E0823	7188
E0824	7192
E0824.2	7196
E0825	7200
E0826	7204
E0828	7216
E0830	7208
E0831	7210
E0832	7212
E0833	7220
E0835	7226
E0836	7224
E0836.2	7228
E0838	7232
E0838.4	7256
E0838.42	7260
E0838.44	7264
E0839	7244
E0839.2	7248
E0848	7268
E0849	7272
E0850	7276
E0852	8100
E0853	8098
E0854	8104
E0855	8108
E0856	8112
E0858	8120
E0860	8124
E0861	8116
E0862	8110
E0862.6	8110.5
E0863	8132
E0864	8136
E0865	8137
E0865.2	8138
E0866	8148
E0866.4	8152
E0867	8156
E0869	8160
E0870	8168
E0870.3	8164
E0870.6	8172
E0870.8	8176
E0871.5	8180
E0872	7948
E0874	7952
E0874.5	7950
E0875	7960
E0876	7944
E0878	7964
E0882	7976
E0886	7968
E0888	7980
E0889	7986
E0890	7984
E0894	7988
E0896	7992
E0898	7996
E0899	8000
E0899.2	8001
E0900	8004
E0902	8036
E0905	8034
E0906	8032
E0908	8008
E0910	8012
E0912	8021
E0913	8020
E0914	8024
E0915	8028
E0915.2	8038
E0915.4	8038.5
E0916	8040
E0918	8044
E0919	8048
E0920	8052
E0922	8056
E0923	8060
E0924	8064
E0926	8068
E0928	8072
E0930	8076
E0932	8084
E0933	8092
E0933.2	8096
E0934	8088
E0935	8080
E0936	8200
E0937	8204
E0937.1	8204.1
E0938	8208
E0940	8196
E0942	8188
E0946	8192
E0950	8836
E0951	8848
E0953	8824
E0955	8766
E0957	8768
E0957.1	8772
E0958	8828
E0958.2	8829
E0960	8760
E0960.1	8761
E0961	8784
E0962	8780
E0962.4	8776
E0963	8788
E0964	8792
E0966	8756
E0968	8764
E0972	8796
E0974	8804
E0975	8805
E0980	8816
E0980.1	8820
E0984	8840
E0988	8832
E0990	8833
E0990.2	8834
E0990.4	8835.5
E0990.6	8835
E0991	8752
E0992	8748
E0993	8753
E0994	8740
E0995	8742
E0995.4	8737
E0995.42	8738
E0996	8744
E0998	8736
E0998.6	8736.5
E1000	8732
E1002	8724
E1003	8728
E1004	8720
E1005	8696
E1005.4	8692
E1006	8700
E1006.1	8704
E1007	8708
E1007.3	8712
E1008	8716
E1008.4	8684
E1008.5	8686
E1008.7	8688
E1009	8672
E1009.2	8676
E1009.4	8680
E1009.5	8671
E1009.56	8669
E1009.6	8669.5
E1009.62	8670
E1009.65	8665
E1009.7	8668
E1009.8	8666
E1010	8664
E1012.2	8648
E1012.4	8649
E1013.5	8656
E1013.6	8660
E1013.8	8612
E1014	8616
E1019	8624
E1020	8632
E1025	8640
E1028	8600
E1028.4	8604
E1028.6	8608
E1029	8592
E1029.2	8596
E1030	8588
E1031	8580
E1031.2	8584
E1032	8564
E1033	8569
E1034	8568
E1036	8572
E1042	8560
E1042.1	8544
E1043	8548
E1044	8556
E1048	8552
E1049	8550
E1053	8536
E1053.2	8540
E1054	8532
E1056	8501
E1056.2	8500
E1057	8502
E1057.4	8503
E1058	8524
E1059	8520
E1059.2	8516
E1063	8512
E1064	8508
E1065	8528
E1065.6	8505
E1065.61	8503.25
E1065.615	8503.45
E1065.62	8503.2
E1065.625	8503.4
E1065.63	8503.65
E1065.64	8503.6
E1065.67	8503.85
E1065.68	8503.8
E1066	8488
E1066.2	8492
E1066.24	8476
E1066.26	8480
E1066.28	8484
E1066.7	8464
E1066.71	8468
E1067	8456
E1070	8452
E1071	8449.1
E1071.2	8449
E1072	8448
E1073	8445
E1073.1	8446
E1074	8436
E1080	8440
E1084	8444
E1086	8428
E1090	8432
E1092	8416
E1093	8388
E1093.1	8392
E1093.5	8418
E1093.6	8419
E1094	8412
E1094.1	8414
E1095	8400
E1096	8396
E1096.5	8419.5
E1096.6	8419.75
E1098	8420
E1098.4	8424
E1099	8364
E1099.2	8363
E1100	8370
E1100.04	8371
E1100.5	8374
E1100.8	8376
E1101	8380
E1103	8360
E1103.2	8362
E1103.24	8358
E1104	8356
E1104.2	8353
E1105.2	8344
E1106	8324
E1107.2	8332

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

Inter.	U.S.
E1107.6	8336
E1108	8320
E1111	8316
E1112	8312
E1116.4	8308
E1116.5	8309
E1117	8286
E1117.2	8288
E1119	8296
E1120	8300
E1122	8284
E1122.6	8285
E1124	8276
E1126	8280
E1130	8212
E1132	8268
E1133	8266
E1133.5	8265
E1134	8264
E1134.4	8264.5
E1135	8262
E1136.32	8244
E1136.4	8249
E1136.41	8249.1
E1136.5	8250
E1136.51	8250.1
E1136.55	8252
E1136.6	8248
E1136.8	8236
E1138	8216
E1139	8224
E1140	8220
E1147	7280
E1147.4	7284
E1147.6	7288
E1149	7292
E1149.05	7294
E1149.08	7300
E1149.2	7296
E1150.4	7304
E1150.6	7308
E1152	7316
E1156	7320
E1157	7328
E1158	7332
E1160	7336
E1162	7340
E1164	7344
E1166	7348
E1166.2	7352
E1168	7356
E1169	7360
E1170	7364
E1171	7368
E1171.4	7380
E1171.5	7384
E1171.6	7388
E1171.7	7392
E1171.8	7395
E1172	7396
E1172.8	7400
E1175.1	7408
E1180	7440
E1181.9	7472
E1182	7476
E1182.3	7416
E1185	7448
E1185.2	7452
E1186.1	7460
E1188	7484
E1193	7490
E1193.5	7492
E1196	7500
E1197	7496
E1198	7504
E1199	7508
E1201	7516
E1201.3	7520
E1202	7528
E1202.2	7533
E1202.4	7532
E1202.6	7524
E1206	7568
E1208	7544
E1208.2	7556
E1208.6	7560
E1208.8	7564
E1212	7540
E1215	7608
E1216	7596
E1217	7592
E1218	7576
E1219	7580
E1220	7584
E1221	7585
E1225	7600
E1226	7604
E1230	7612
E1233	7620
E1236	7624
E1237	7632
E1238	7628
E1240.7	7646
E1244	7636
E1246	7640
E1248	7644
E1254	7648
E1255	7660
E1255.5	7652
E1256	7657
E1256.2	7656
E1257	7664
E1257.2	7668
E1257.4	7672
E1257.7	7676
E1257.8	7680
E1257.9	7684
E1258	7692
E1262	7696
E1263	7708
E1265	7700
E1265.4	7704
E1268	7720
E1269	7724
E1270	7812
E1270.2	7816
E1274	7820
E1278	7808
E1280	7804
E1280.2	7800
E1281	7796
E1281.2	7792
E1282.2	7789
E1282.4	7790
E1283	7788
E1284	7784
E1285	7780
E1285.2	7772
E1285.4	7776
E1288	7768
E1290	7764
E1292	7760
E1292.6	7760.2
E1292.7	7760.4
E1292.75	7760.8
E1292.8	7760.6
E1300	7732
E1302	7736
E1304	7740
E1312	7744
E1312.1	7748
E1318	7756
E1319	7752
E1323	7728
E1324	7824
E1328	7832
E1328.5	7833
E1329	7836
E1330	7840
E1330.4	7844
E1331	7848
E1334	7852
E1340	7856
E1341	7864
E1342	7860
E1347.25	7868
E1347.6	7870
E1347.8	7872
E1348	7876
E1348.5	7874
E1356	7892
E1358	7880
E1359	7882
E1360	7896
E1368	7888
E1370	7884
E1374	7924
E1376.2	7912
E1380	7920
E1380.2	7928
E1380.4	7932
E1381	7936
E1382	7940
E1384	8980
E1388.4	8984
E1390	8988
E1392	8852
E1394	8856
E1396	8860
E1400	8864
E1401	8872
E1403	8876
E1408	8888
E1409	8890
E1410	8892
E1412	8896
E1414	8916
E1415	8900
E1416.5	8904
E1417	8920
E1417.2	8924
E1423	8932
E1424	8928
E1428	8936
E1428.2	8935
E1429	8934
E1432	8948
E1434	8944
E1436	8940
E1438	8952
E1439	8956
E1440	8960
E1441	8964
E1444	8884
E1446	8992
E1448	8968
E1450	8972
E1454	8976
E1455	8996
E1456	9000
E1456.3	9014
E1457	9008
E1458	9004
E1459	9012
E1460	9016
E1461	9020
E1462	9024
E1466	9032
E1466.2	9036
E1466.4	9040
E1468	9044
E1470	9048
E1474	9056
E1476	9060
E1477.5	9068
E1480	9076
E1481	9088
E1482	9084
E1483	9080
E1486	9092
E1488	9096
E1490	9100
E1492	9104
E1496	9108
E1500	9112
E1502	9116
E1503	9120
E1504	9124
E1504.4	9128
E1505	9137.5
E1505.2	9137
E1506	9136
E1506.2	9138
E1506.5	9138.5
E1508	9132
E1509.5	9141
E1509.55	9140.1
E1510	9140
E1513	9152
E1514	9148

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

Inter.	U.S.
E1518	9156
E1518.2	9153
E1518.5	9154
E1518.7	9154.5
E1519	9160
E1519.4	9164
E1524	9168
E1526	9180
E1526.3	9172
E1538	9192
E1540.5	9196
E1541	9200
E1541.2	9208
E1541.3	9204
E1541.6	9212
E1542	9244
E1550	9248
E1551	9252
E1552	9256
E1554	9260
E1558	9264
E1560	9268
E1562	9272
E1564	9276
E1565	9280
E1565.1	9284
E1566	9288
E1568	9294
E1570	9296
E1570.2	9300
E1572	9308
E1573	9304
E1574	9310
E1575.5	9312
E1576	9220
E1577	9216
E1580	9228
E1582	9240
E1583	9236
E1584	9232
E1588	9224
E1592	9320
E1594	9324
E1595	9326
E1598	9328
E1600	9332
E1600.5	9333
E1606	9340
E1606.2	9341
E1608	9344
E1610	9348
E1612	9352
E1614	9356
E1614.3	9360
E1615	9362
E1615.2	9363
E1616	9368
E1617	9372
E1618	9364
E1619	9376
E1620	9380
E1622	9384
E1623	9388
E1625	9390
E1626	9404
E1626.2	9408
E1626.4	9412
E1626.6	9416
E1628.4	9400
E1628.5	9417
E1628.6	9418
E1628.7	9420
E1629	9424
E1629.4	9428
E1631	9432
E1632	9436
E1634	9444
E1636	9440
E1646	9475
E1647.5	9465
E1648	9464
E1650	9476
E1652	9452
E1653	9456
E1654	9460
E1658	9480
E1662	9484
E1663	9492
E1664	9488
E1667	9500
E1669	9508
E1678	9516
E1679	9520
E1680	9524
E1681	9528
E1683	9539.1
E1683.5	9539
E1684	9536
E1685	9532
E1687	9538
E1688	9539.5
E1688.5	9539.2
E1692	9540
E1692.5	9550
E1693	9544
E1694	9548
E1695	9552
E1695.6	9554
E1696	9556
E1698	9560
E1700	9564
E1702	9568
E1706	9572
E1708	9576
E1710	9580
E1711	9584
E1716	9588
E1718	9592
E1720	9596
E1722	9600
E1730	9604
E1730.2	9612
E1730.4	9616
E1733	9620
E1733.5	9624
E1734	9626
E1734.3	9627
E1735	9632
E1737	9628
E1738	9636
E1739	9640
E1739.2	9644
E1739.4	9648
E1739.7	9650
E1739.8	9650.1
E1740	9652
E1741	9656
E1742	9660
E1743	9661
E1743.2	9662
E1746	9664
E1747	9668
E1747.2	9674
E1747.3	9672
E1750	9676
E1752	9680
E1756	9684
E1756.5	9688
E1757	9692
E1758	9696
E1760	9700
E1762	9704
E1763	9704.5
E1763.2	9704.7
E1763.35	9704.6
E1764	9705
E1764.1	9705.1
E1764.3	9706
E1764.31	9706.7
E1766	9708
E1769	9716
E1770	9720
E1772	9724
E1773	9728
E1773.6	9732
E1776	9736
E1777	9740
E1780	9744
E1780.5	9748
E1780.6	9752
E1780.7	9756
E1780.8	9760
E1781	9764
E1782	10580
E1784	9847
E1785	9846
E1786	9824
E1786.3	9825
E1786.5	9826
E1788	9828
E1790	9832
E1792	9836
E1792.7	9830
E1793	9838
E1796	9852
E1798	9848
E1800	9840
E1802	9844
E1806	9784
E1809	9788
E1810	9785
E1810.1	9785.1
E1810.2	9786
E1810.21	9786.1
E1813	9766
E1814	9768
E1816	9772
E1817	9776
E1818	9780
E1820.5	9782
E1821	10434
E1822	10436
E1823	10440
E1824	10442
E1826	10432
E1827	10428
E1828	10400
E1830	10420
E1831	10424
E1832.5	10422
E1836	10396
E1838	10392
E1846	10328
E1846.1	10332
E1847	10320
E1848	10324
E1849	10336
E1849.4	10337
E1849.6	10338
E1850	10340
E1852	10352
E1852.5	10354
E1852.6	10355
E1854	10364
E1855	10368
E1855.2	10372
E1856	10376
E1856.5	10378
E1857	10380
E1857.4	10384
E1858	10386
E1858.1	10387
E1858.2	10388
E1858.3	10389
E1858.4	10390
E1858.6	10391
E1859	10316
E1860	10308
E1861	10306
E1861.5	10305
E1861.8	10282
E1862	10276
E1862.4	10280
E1862.5	10284
E1862.51	10288
E1862.59	10292
E1862.6	10296
E1862.61	10300
E1862.8	10304
E1862.9	10304.5
E1864	10268
E1865	10272
E1865.5	10250
E1866	10248
E1867	10244
E1868	10252
E1868.1	10256
E1870	10260
E1876	10240
E1877	10241

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Inter.	— U.S.
E1877.5	10242
E1877.8	10238
E1878	10236
E1879	10232
E1880	10230
E1882	10224
E1884	10228
E1885	10216
E1886	10212
E1888	10208
E1889.05	10196
E1894	10188
E1896	10184
E1898	10180
E1900	10172
E1900.2	10168
E1900.4	10164
E1900.6	10160
E1902	10152
E1902.2	10156
E1904	10128
E1905	10144
E1906	10136
E1907	10137
E1908	10132
E1912	10140
E1912.5	10138
E1916	10120
E1918	10116
E1920	10124
E1922	10112
E1926	10096
E1926.2	10100
E1927	10104
E1928	10108
E1928.5	10094
E1930	10092
E1932	10080
E1932.5	10082
E1933	10084
E1938	10076
E1938.3	10078
E1940	10064
E1942	10068
E1944	10072
E1947.5	10018
E1948	10016
E1949	10024
E1950	10028
E1952	10020
E1956	10004
E1958	10012
E1960	10008
E1962	10000
E1966	10032
E1968	10036
E1970	10044
E1978	10052
E1979.2	10060
E1982	10040
E1986	9988
E1987	9992
E1988	9996
E1990	9984
E1992	9968

Inter.	— U.S.
E1993	9980
E1993.5	9972
E1993.54	9952
E1993.6	9976
E1994	9940
E1996	9956
E1997	9960
E2000	9964
E2004	9936
E2005	9924
E2008	9908
E2010	9914
E2011	9917
E2012	9917.5
E2012.3	9918
E2013	9910
E2014	9912
E2019	9916
E2023	9900
E2024	9890
E2025	9892
E2026	9896
E2030	9876
E2035	9868
E2035.2	9870
E2036	9860
E2038	9856
E2042	9796
E2044	9800
E2044.2	9808
E2044.4	9812
E2045	9816
E2045.3	9820
E2045.4	9804
E2046	9792
E2050	10504
E2051	10508
E2051.2	10512
E2054	10516
E2055.5	10524
E2056	10524.1
E2057	10526
E2058	10528
E2061.5	10544
E2062	10548
E2064	10552
E2068	10560
E2070	10564
E2070.6	10565
E2076	10572
E2080	10472
E2082	10468
E2084	10476
E2086	10464
E2088	10444
E2089	10448
E2090	10460
E2091	10456
E2092	10452
E2094	10480
E2096	10496
E2098	10500
E2106	10492
E2107	10484
E2108	10584

Inter.	— U.S.
E2109	10588
E2112	10596
E2118	10600
E2120	10620
E2121	10616
E2121.5	10612
E2122	10604
E2123	10608
E2128	10624
E2130.5	10630
E2130.6	10631
E2130.61	10631.1
E2131	10632
E2131.2	10636
E2132	10640
E2133	10642
E2134	10644
E2137	10646
E2138	10648
E2142.3	10650
E2142.4	10656
E2142.5	10660
E2142.6	10664
E2142.8	10722
E2142.9	10748
E2142.92	10744
E2143	10672
E2143.2	10676
E2144	10677
E2144.4	10708
E2144.43	10712
E2144.44	10716
E2144.45	10720
E2144.47	10718
E2144.48	10719
E2144.5	10724
E2145	10700
E2145.2	10702
E2146	10704
E2150	10680
E2150.1	10684
E2152	10688
E2152.1	10689
E2153	10696
E2156	10695
E2156.6	10695.5
E2158.4	10694
E2158.6	10690
E2162	10728
E2162.2	10732
E2162.4	10736
E2162.6	10740
E2164	10752
E2164.1	10756
E2168	10760
E2170	10768
E2172	10764
E2172.2	10765
E2173	10772
E2174	10776
E2174.4	10778
E2176	10780
E2177	10784
E2177.5	10786
E2178	10788

Inter.	— U.S.
E2182	10792
E2186	10796
E2188	10800
E2190.5	10804
E2192	10808
E2194	10812
E2196	10816
E2198	10822.5
E2200	10823
E2202	10823.5
E2203	10830
E2203.5	10828
E2204	10824
E2208	10822
E2210	10836
E2212	10832
E2214	10844
E2216	10840
E2217	10848
E2217.5	10852
E2222	10856
E2223	10860
E2223.4	10864
E2224	10868
E2226	10872
E2228	10876
E2228.5	10880
E2230	10884
E2230.4	10886
E2231	10888
E2232	10892
E2233	10896
E2234	10908
E2236	10900
E2238	10920
E2240	10916
E2241	10904
E2242	10928
E2243	10924
E2244	10932
E2246	10936
E2246.2	10940
E2247	10944
E2247.3	10948
E2248	10952
E2250	10960
E2252	10956
E2254	10964
E2258	10968
E2260	10976
E2261	10972
E2262	10980
E2263.5	10992
E2264	10984
E2266	10988
E2268	10996
E2274.4	11000
E2274.6	11004
E2275	11008
E2276	11012
E2277	11016
E2278	11020
E2281	11024
E2282	11028
E2284	11032

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Inter.	U.S.
E2286	11036
E2288	11040
E2288.4	11044
E2294	11076
E2296	11064
E2297	11072
E2298	11068
E2300	11060
E2303	11080
E2304	11084
E2304.2	11088
E2305	11092
E2306	11100
E2307	11104
E2307.2	11108
E2307.5	11112
E2307.7	11120
E2308	11124
E2312	11128
E2313	11132
E2314	11140
E2315	11136
E2315.1	11138
E2315.6	11142
E2315.7	11143
E2315.72	11143.5
E2316	11145
E2316.35	11146
E2319	11151
E2320	11152
E2324	11156
E2326	11164
E2326.2	11168
E2332	11176
E2333	11180
E2334	11184
E2335	11172
E2336	11188
E2337	11190
E2337.2	11192
E2337.6	11208
E2338	11200
E2338.2	11204
E2339	11196
E2343	11214
E2344	11216
E2346	11224
E2346.5	11225
E2346.7	11226
E2347	11228
E2348	11232
E2349	11220
E2350	11236
E2352	11248
E2352.5	11252
E2354	11264
E2358	11276
E2359	11268
E2362	11280
E2364	11284
E2366	11288
E2368	11292
E2372	11296
E2374	11300
E2376	11304
E2381	11308
E2382	11312
E2384	11316
E2388	11317
E2388.2	11318
E2390	11320
E2393	11336
E2394	11324
E2396	11328
E2397	11332
E2404	11340
E2405	11344
E2406	11348
E2411	11352
E2412	11360
E2413	11356
E2417.8	11380
E2417.9	11375
E2418	11376
E2419	11384
E2420	11388
E2421	11392
E2422	11396
E2426	11400
E2428	11404
E2430	11408
E2432	11424
E2433	11420
E2434	11428
E2440	11436
E2441	11438
E2443	11448
E2443.3	11449
E2444.7	11451
E2450	11452
E2451	11456
E2452	11460
E2453	11464
E2458	11476
E2462	11480
E2463	11490
E2464	11488
E2464.4	11492
E2465	11484
E2466	11500
E2467	11496
E2468	11504
E2480	11516
E2481	11508
E2484	11520
E2485	11532
E2486	11524
E2486.1	11528
E2488	11536
E2488.4	11530
E2488.5	11531
E2488.7	11534
E2488.8	11535
E2489	11544
E2490	11540
E2490.8	11545
E2491	11546
E2492	11548
E2504	11556
E2504.2	11557
E2505.1	11558
E2506	11560
E2506.4	11564
E2508	11568
E2518	11572
E2519.5	11574
E2520	11580
E2520.4	11584
E2520.5	11588
E2521	11576
E2524	11592
E2524.3	11604
E2524.5	11600
E2524.7	11596
E2525.7	11608
E2526	11612
E2528	11616
E2530	11620
E2534	11624
E2536	11628
E2537.5	11630
E2538	11632
E2540	11634
E2543	11635
E2544	11636
E2545	11640
E2547	11648
E2548	11644
E2550	11652
E2551	11656
E2553	11660
E2554	11664
E2555	11668
E2556	11670
E2557	11706
E2558	11676
E2560	11680
E2561	11684
E2562	11688
E2565	11700
E2568	11696
E2576	11708
E2578	11712
E2580	11724
E2582	11728
E2586	11732
E2587	11736
E2588	11716
E2588.2	11717
E2593	11748
E2595	11792
E2596	11796
E2597	11764
E2597.2	11768
E2598	11760
E2601	11756
E2601.4	11772
E2602	11788
E2602.2	11784
E2603	11776
E2604	11800
E2605	11808
E2607	11812
E2608	11814
E2611.5	11816
E2611.7	11817
E2611.71	11817.5
E2612	11832
E2612.2	11828
E2613	11820
E2613.3	11820.3
E2613.5	11820.5
E2618	11836
E2620	11840
E2622	11844
E2624	11848
E2628	11856
E2630	11852
E2632	11860
E2634	11864
E2642	11868
E2642.5	11869
E2643	11870
E2644	11872
E2646	11876
E2648	11880
E2649	11884
E2652	11888
E2654	11892
E2655	11896
E2656	11900
E2658	11904
E2660	11905
E2660.2	11906
E2662	11908
E2663	11912
E2664	11914
E2665	11920
E2668	11928
E2669	11926
E2670	11924
E2670.2	11925
E2672	11932
E2674	11936
E2676	11940
E2680	11944
E2682	11956
E2684	11948
E2690	11960
E2692	11972
E2694	11980
E2696	11976
E2700	11988
E2706	11992
E2710	11996
E2712	11968
E2718	12000
E2720	12004
E2721	12008
E2721.2	12012
E2724	12016
E2726	12020
E2727	12032
E2728	12024
E2734	12036
E2735	12037
E2738	12040
E2738.2	12052
E2742	12048
E2744	12116

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Inter.	U.S.
E2748	12056
E2749	12058
E2750	12060
E2750.3	12154
E2751	12064
E2752	12120
E2754	12124
E2756	12128
E2758	12140
E2759	12144
E2760	12132
E2761	12136
E2762	12148
E2764	12152
E2768	12068
E2769	12072
E2770	12076
E2772	12080
E2773	12084
E2774	12088
E2776	12092
E2780	12096
E2781	12099
E2782	12100
E2783	12102
E2784	12156
E2788	12164
E2792	12160
E2794	12104
E2798	12108
E2798.2	12110
E2799	12112
E2799.2	12180
E2799.4	12176
E2799.6	12184
E2801	12188
E2802	12172
E2804	12200
E2810	12204
E2816	12212
E2817	12216
E2818	12220
E2820	12224
E2822	12228
E2824	12240
E2828	12244
E2829	12226
E2830	12232
E2830.5	12234
E2840	12252
E2842	12248
E2843	12254
E2844	12256
E2844.5	12256.2
E2845.1	12342
E2850	12336
E2854	12348
E2855	12340
E2856	12352
E2857	12356
E2862	12360
E2863	12532
E2864	12536
E2864.1	12540
E2866	12528
E2867	12524
E2869	12512
E2870	12508
E2870.4	12504
E2871	12194
E2872	12472
E2873	12196
E2874	12496
E2876	12500
E2880	12488
E2882	12492
E2884	12484
E2886	12468
E2886.4	12464
E2887	12460
E2888	12544
E2890	12364
E2892	12368
E2894	12376
E2895	12380
E2896	12384
E2898	12392
E2899	12396
E2900	12400
E2901	12408
E2902	12404
E2903.3	12428
E2904	12476
E2905	12480
E2906	12388
E2908	12412
E2910	12416
E2912	12420
E2914	12424
E2916	12432
E2922	12444
E2923	12436
E2926	12448
E2928	12452
E2931	12458
E2937	12547
E2938	12568
E2940	12548
E2941	12552
E2942	12556
E2942.3	12558
E2942.4	12560
E2942.5	12564
E2943	12576
E2943.9	12578
E2944	12580
E2945	12646.5
E2946	12646
E2948	12584
E2950	12704
E2951	12696
E2952	12700
E2953	12688
E2954	12692
E2960	12708
E2961	12724
E2962	12712
E2964	12728
E2966	12732
E2970	12736
E2971	12744
E2972	12740
E2972.5	12749
E2973	12748
E2973.1	12752
E2973.3	12756
E2973.4	12760
E2973.6	12764
E2974	12768
E2974.3	12767
E2975	12588
E2976	12592
E2977	12594
E2978	12596
E2982	12600
E2984	12608
E2986	12612
E2988	12624
E2992	12620
E2994	12616
E2995	12604
E2995.6	12640
E2995.8	12647
E2997	12644
E2998	12632
E3002	12332
E3004	12328
E3006	12324
E3008	12320
E3012	12316
E3014	12312
E3015	12310
E3016	12308
E3019	12304
E3022	12280
E3023	12284
E3024	12288
E3026	12292
E3028	12296
E3029	12300
E3032	12276
E3034	12268
E3035	12270
E3036	12260
E3038	12264
E3042	12272
E3043	12273
E3044	12772
E3046	12780
E3048	12784
E3050	12788
E3052	12800
E3054	12792
E3058	12796
E3060	12804
E3064	12808
E3065	12825
E3066	12812
E3068	12820
E3072	12816
E3075	12648
E3077	12656
E3078	12660
E3080	12664
E3081	12824
E3082	12668
E3083	12676
E3084	12672
E3086	12684
E3087	12680
E3087.4	12720
E3088	12716
E3089	12826
E3090	12828
E3090.5	12835
E3092	12832
E3093	12836
E3094.4	12844
E3095	12856
E3096	12852
E3097	12860
E3097.4	12848
E3098	12864
E3099	12868
E3099.5	12870
E3100	12876
E3106	12908
E3106.4	12952
E3107	12912
E3107.2	12916
E3107.5	12918
E3108	12920
E3110	12924
E3112	12928
E3115	12932
E3116	12936
E3116.2	12940
E3116.3	12938
E3116.4	12944
E3117	12948
E3118	12950
E3119	12888
E3120	12884
E3121	12922
E3121.3	12877
E3121.5	12878
E3121.7	12879
E3122	12880
E3124	12892
E3127	12897
E3127.4	12898
E3131	12902
E3132	12904
E3132.3	12906
E3132.5	12875.5
E3132.8	12875
E3133	12874.5
E3133.5	12874
E3134	12872
E3140	12988
E3142	12992
E3144	12996
E3148	13000
E3150	12954
E3151	12954.5
E3152	12956
E3154	12960
E3156	12964
E3157	12968
E3158	12972

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

Inter.	—	U.S.
E3160		12976
E3164		12980
E3165		12984
E3166		12985
E3167		12986
E3167.5		13003
E3168		13004
E3172		13010
E3174		13016
E3180		13032
E3184		13044
E3185		13052
E3186		13048
E3188		13056
E3191		13058
E3193		13060
E3194		13062
E3196		13064
E3197		13063
E3200		13080
E3202		13076
E3204		13088
E3205		13068
E3206		13084
E3208		13092
E3212		13096
E3214		13072
E3218		13104
E3219		13124
E3220		13120
E3222		13132
E3224		13128
E3225		13136
E3225.1		13138
E3225.2		13140
E3225.3		13142
E3226		13304
E3226.5		13286
E3227		13292
E3227.7		13298
E3228		13300
E3228.5		13276
E3229		13280
E3229.2		13296
E3229.5		13272
E3229.7		13284
E3229.75		13143
E3229.8		13288
E3230		13152
E3230.5		13148
E3231		13144
E3232		13164
E3232.5		13164.4
E3234		13112
E3236		13168
E3238		13160
E3240		13156
E3242		13180
E3243		13176
E3244		13172
E3248		13184
E3250		13188
E3251		13192
E3252		13200
E3256		13196
E3258		13212
E3260		13204
E3262		13208
E3263		13216
E3264		13220
E3265.8		13231
E3266		13224
E3267		13232
E3267.5		13234
E3274		13268
E3275		13260
E3275.5		13264
E3276		13256
E3276.6		13258
E3276.7		13259
E3277		13236
E3278		13240
E3279		13248
E3280		13252
E3282		13316
E3283		13308
E3284		13312
E3285		13320
E3285.5		13318
E3285.51		13319
E3286		13324
E3286.5		13322
E3287		13336
E3288		13328
E3289		13333
E3290		13332
E3291.5		13334
E3292		13340
E3292.5		13346
E3293		13344
E3294		13348
E3295		13352
E3295.4		13356
E3295.7		13358
E3296		13360
E3297		13364
E3298		13368
E3299		13372
E3299.4		13376
E3302		13384
E3304		13388
E3306		13392
E3308		13396
E3314		13400
E3316.5		13433
E3318		13434
E3320.1		13467
E3323		13448
E3324		13452
E3325		13464
E3325.4		13472
E3326		13468
E3327		13436
E3328		13440
E3328.4		13444
E3328.6		13446
E3330		13476
E3331		13428
E3331.2		13427
E3331.5		13370
E3331.9		13509
E3332		13508
E3333		13510
E3334		13512
E3334.5		13514
E3336		13516
E3338		13520
E3340		13524
E3342		13528
E3344		13532
E3346		13536
E3348		13426
E3348.2		13425
E3349		13408
E3350		13416
E3351		13418
E3354		13420
E3356		13424
E3356.5		13480
E3357		13478
E3364		13540
E3366		13545
E3366.2		13544
E3368		13548
E3370		13552
E3376		13492
E3378		13496
E3380		13556
E3384		13560
E3386		13502
E3387		13504
E3388		13580
E3390		13584
E3392		13564
E3393		13586
E3394		13588
E3395		13590
E3396		13568
E3398		13572
E3400		13576
E3404		13596
E3405		13598
E3406		13600
E3408		13604
E3409		13608
E3410		13612
E3412		13616
E3412.4		13620
E3412.6		13624
E3413		13636
E3413.1		13638
E3414		13632
E3418		13628
E3419		13642
E3420		13648
E3422		13652
E3426		13644
E3428		13656
E3431		13660
E3431.5		13592
E3432		13672
E3434		13676
E3436		13680
E3438		13684
E3439		13688
E3440		13692
E3442		13696
E3443		13700
E3444		13704
E3445		13708
E3446		13712
E3448		13716
E3450		13720
E3451		13724
E3452		13900
E3454		13888
E3458		13892
E3460		13896
E3461		13884
E3463		13876
E3464		13878
E3470		13832
E3470.5		13834
E3471		13836
E3476		13840
E3477		13844
E3478		13848
E3479		13852
E3480		13856
E3481		13860
E3482		13864
E3486		13872
E3486.5		13828
E3487		13824
E3488		13820
E3488.5		13814
E3490		13664
E3492		13668
E3493		13591
E3496		13812
E3498		13813
E3499.2		13750
E3499.5		13748.5
E3500.5		13732
E3501		13736
E3501.2		13740
E3501.4		13744
E3501.6		13746
E3502		13752
E3502.2		13756
E3516		13764
E3520		13808
E3521		13792
E3521.3		13796
E3521.5		13800
E3522		13804
E3526		13772
E3528		13776
E3530		13780
E3531		13784
E3532		13788
E3535.5		13947
E3536		13948
E3537		13952
E3537.4		13956
E3537.5		13960
E3537.6		13964
E3538		13904
E3544		13912
E3545		13908

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

Inter.	U.S.
E3546	13932
E3548	13920
E3551	13940
E3552	13936
E3553	13938
E3554	13944
E3556	13968
E3558	13975
E3560	13980
E3560.5	13982
E3561	13984
E3562	13988
E3564	13990
E3566	13992
E3570	13996
E3575	14000
E3576	14016
E3578	14020
E3579	14030
E3580	14004
E3582	14008
E3584	14012
E3586	11052
E3588	11056
E3590	14024
E3592	14028
E3595	14032
E3595.5	14031
E3596	14036
E3598	14040
E3599	14042
E3600	14044
E3601	14050
E3601.5	14051
E3601.7	14050.5
E3602	14052
E3602.1	14056
E3604	14048
E3610	14060
E3613	14068
E3613.7	14076
E3614	14088
E3614.5	14084
E3615	14096
E3616	14092
E3620	14100
E3622	14104
E3623	14108
E3624	14112
E3628	14116
E3630	14120
E3632	14124
E3638	14156
E3643	14152
E3644	14144
E3644.5	14142
E3645	14140
E3646	14136
E3647	14132
E3648	14128
E3652	14164
E3654	14168
E3656	14172
E3658	14180
E3660	14184
E3661	14188
E3662	14192
E3663	14200
E3664	14196
E3666	14204
E3674	14212
E3676	14216
E3678	14220
E3682	14224
E3684	14236
E3685	14240
E3686	14244
E3688	14248
E3688.5	14251
E3689	14256
E3690	14260
E3691	14268
E3693	14269
E3696	14272
E3698	14276
E3702	14280
E3702.5	14282
E3703	14284
E3703.1	14288
E3704	14292
E3705	14296
E3708	14300
E3711	14304
E3712	14312
E3714	14316
E3714.1	14310
E3719	14320
E3720	14322
E3721	14324
E3723	14328
E3725	14332
E3726	14336
E3726.5	14337
E3727	14344
E3727.6	14346
E3727.7	14347
E3728	14340
E3729	14348
E3729.1	14350
E3729.5	14351
E3731	14360
E3732	14352
E3732.5	14338
E3733	14364
E3734	14368
E3734.5	14370
E3741	14372
E3742.5	14374
E4665.9	20030
E5146	18080
E5616	18436
E5787.8	19416
E5871.42	20692
E6204	21424
E6206	21428
E6278.6	21631.1
E6327	21738
E6327.4	21744.1
E6327.41	21744.2
E6327.42	21744.3
E6327.43	21744.4
E6328	21740
E6328.2	21741
E6330.2	21760
E6332	21764
E6334	21776
E6338	21780
E6339	21772
E6340	21758
E6340.5	21805
E6342.4	21804
E6344	21784
E6345	21806
E6348	21820
E6349	21821
E6350	21822
E6352	21812
E6352.4	21816
E6353	21826
E6353.1	21827
E6354	21828
E6356	21832
E6358	21834
E6359	21836
E6362	21848
E6362.5	21845
E6362.6	21846
E6362.7	21847
E6364	21897
E6364.2	21897.2
E6366.6	21852
E6368	21900
E6369	21898
E6369.2	21899
E6370	21904
E6371	21908
E6371.2	21912
E6371.4	21913
E6372	21916
E6372.6	21917
E6372.8	21919
E6373	21925
E6373.2	21926
E6373.22	21924
E6373.6	21921
E6373.8	21922
E6374	21932
E6376	21933
E6377	21936
E6377.2	21935
E6380	21920
E6381	21940
E6381.5	21944
E6382	21956
E6384	21952
E6385	21960
E6385.5	21964
E6386	21976.5
E6386.1	21976.51
E6387	21972
E6387.3	21976
E6388	21976.3
E6388.2	21976.4
E6389.5	21976.6
E6389.6	21976.7
E6390	21980
E6390.4	21977
E6390.42	21978
E6390.6	21979
E6391	21982
E6392	21984
E6392.3	21985
E6392.4	21985.1
E6394	21988
E6394.2	21989
E6394.4	21989.1
E6394.5	21990
E6394.61	21991
E6396	21996
E6396.5	22008
E6397	22002
E6397.5	22000
E6399	22004
E6401	21995
E6410	22032
E6412	22040
E6413	22044
E6413.2	22048
E6414	22056
E6415	22060
E6415.2	22062
E6416	22064
E6418	22065
E6418.1	22066
E6420	22068
E6422	22076
E6423	22078
E6423.4	22078.5
E6426	22080
E6428	22084
E6436	22096
E6438	22100
E6440	22104
E6445	22124
E6446	22120
E6454	22106
E6456	22132
E6458	22136
E6459	22138
E6459.1	22139
E6459.2	22140
E6460	22148
E6462	22152
E6462.4	22156
E6464	22144
E6465	22145
E6465.2	22146
E6482	22164
E6483	22166
E6484	22168
E6486	22176
E6490	22180
E6492.4	22184
E6495	22192
E6495.2	22188
E6504	22204
E6506	22208
E6508	22212
E6510	22216
E6512	22220

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

Inter.	U.S.
E6514	22224
E6516	22228
E6518	22232
E6520	22252
E6520.2	22256
E6522	22240
E6523	22248
E6524	22244
E6530	22264
E6533	22268
E6534	22272
E6538	22276
E6540	22280
E6542	22284
E6544	22288
E6550	22292
E6551	22296
E6552	22300
E6558	22308
E6560	22312
E6562	22316
E6566	22324
E6567	22320
E6572	22328
E6573	22332
E6578	22336
E6580	22340
E6582	22344
E6584	22348
E6588	22352
E6590	22356
E6592	22360
E6593	22362
E6593.2	22362.2
E6593.4	22364
E6594	22368
E6596	22372
E6602	22380
E6604	22384
E6606	22388
E6610	22404
E6611	22400
E6612	22408
E6613	22412
E6616	22416
E6617	22420
E6620	22376
E6621	22424
E6624	22432
E6624.6	22434
E6628	22440
E6629	22438
E6630	22444
E6631	22448
E6632	22452
E6636	22468
E6637	22484
E6638	22472
E6642	22480
E6644	22486
E6646	22488
E6648	22500
E6649	22504
E6650	22496
E6651	22492
E6652	22508
E6656	22512
E6656.5	22516
E6658	22520
E6660	22524
E6661	22536
E6662	22532
E6664	22528
E6665.3	22576
E6665.4	22572
E6665.5	22577
E6665.6	22578
E6669	22548
E6670	22552
E6671	22560
E6671.2	22556
E6672	22540
E6674	22580
E6678	22584
E6679	22588
E6679.4	22600
E6680	22592
E6682	22596
E6684	22604
E6684.2	22608
E6685	22610
E6685.2	22612
E6687	22616
E6694	22624
E6694.2	22620
E6695	22628
E6695.2	22632
E6696	22636
E6696.2	22640
E6700	22644
E6704	22648
E6704.1	22652
E6704.4	22656
E6704.42	22660
E6704.5	22664
E6706.4	22668
E6708	22672
E6712	22676
E6714	22684
E6716	22688
E6717	22692
E6718	22696
E6720	22700
E6722	22708
E6722.2	22712
E6726	22716
E6732	22704
E6752	22732
E6754	22724
E6756	22728
E6757	22720
E6757.2	22721
E6757.25	22722
E6757.6	22744
E6758	22736
E6762	22740
E6763	22742
E6764	22748
E6765	22754
E6768	22752
E6770	22749
E6773	22756
E6774	22760
E6776	22768
E6778	22772
E6780	22776
E6784	22784
E6784.4	22792
E6784.41	22796
E6784.6	22800
E6784.61	22804
E6785.2	22808
E6786	22788
E6788	22816
E6789	22820
E6789.5	22822
E6820	22828
E6824	22832
E6825	22836
E6830	22838
E7010	7536
E7010.5	7538
E7053	9184
E7054	9188
E7120	10190
E7470	11260
E7471	11256
E7520	11368
E7522	11374
E7580	12054
E7581	12054.5
E7582	12054.6
E7583	12054.2
E7584	12055
N3747	14380
N3747.5	14384
N3747.7	14385
N3748	14388
N3749	14390
N3750	14392
N3754	14396
N3754.5	14398
N3755	14414
N3756	14430
N3757	14428
N3760	14416
N3773	14432
N3774	14400
N3776	14436
N3778	14440
N3779	14444
N3780	14448
N3781	14449
N3781.5	14452
N3782	14456
N3783	14460
N3784	14464
N3784.2	14468
N3785	14472
N3786	14476
N3788	14480
N3791.2	14494
N3792	14484
N3794	14488
N3794.5	14492
N3794.7	14489
N3795	14491
N3795.6	14490
N3795.7	14491.5
N3796	14496
N3800	14500
N3804	14504
N3804.1	14508
N3806	14512
N3808	14520
N3809	14518
N3810	14522
N3811	14524
N3812	14556
N3814	14548
N3816	14544
N3817	14540
N3818	14542
N3820	14536
N3824	14532
N3832	14560
N3835	14568
N3836	14572
N3840	14580
N3842	14584
N3844	14588
N3846	14612
N3848	14614
N3850	14592
N3852	14596
N3853	14600
N3853.5	14609
N3854	14604
N3855	14608
N3856	14611
N3857	14610
N3858	14648
N3859	14652
N3859.5	14654
N3860	14656
N3861	14660
N3862	14664
N3864	14668
N3866	14644
N3868	14700
N3869	14696
N3869.4	14688
N3869.42	14690
N3869.7	14692
N3870	14684
N3872	14680
N3874	14676
N3876	14672
N3880	14720
N3882	14704
N3884	14716
N3890	14708
N3892	14712
N3896	14616
N3898	14620
N3900	14624
N3901	14625
N3901.2	14626
N3901.5	14627
N3902	14628

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

Inter.	U.S.
N3903	14630
N3904	14632
N3905	14634
N3906	14636
N3908	14640
N3910	14744
N3912	14756
N3916.5	14750
N3918	14752
N3919	14763
N3919.2	14763.5
N3920	14776
N3921	14769.1
N3921.5	14769
N3926	14764
N3927	14768
N3928.2	14761.5
N3936	14780
N3938	14784
N3938.5	14786
N3939.5	14581, 14781
N3940	14788
N3942	14792
N3946	14796
N3948	14876
N3948.5	14877
N3950	14872
N3952	14800
N3954.2	14798
N3954.22	14798.5
N3956	14804
N3957	14808
N3957.5	14808.5
N3958	14812
N3960	14816
N3962	14820
N3963	14824
N3963.2	14822
N3964	14828
N3965	14834
N3965.03	14834.3
N3965.07	14834.7
N3965.1	14835
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CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

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

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

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N5839	20516
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N5840	20552
N5840.4	20556
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N5841	20536
N5842	20540
N5843.5	20538
N5843.6	20551.1
N5843.7	20550
N5843.8	20551
N5844.2	20528
N5844.21	20558
N5844.22	20529
N5844.4	20560
N5844.6	20564
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CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

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N5849.4	20608
N5849.6	20612
N5850	20616
N5852	20620
N5854	20624
N5854.4	20628
N5854.8	20630
N5855	20632
N5855.4	20636
N5855.5	20631
N5855.51	20631.1
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N5857	20640
N5858	20648
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N5860	20656
N5861	20660
N5862	20664
N5866	20668
N5866.2	20668.1
N5866.5	20669
N5866.51	20669.1
N5867	20670
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N5868	20672
N5871	20676
N5871.3	20680
N5871.32	20684
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N5871.6	20698
N5872	20708
N5872.2	20712
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N5873	20720
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N5873.2	20724
N5873.3	20728
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N5873.7	20748
N5873.8	20752
N5874	20756
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N5876.2	20860
N5876.3	20864
N5876.4	20852
N5876.6	20868
N5876.8	20872
N5877	20888
N5877.4	20884
N5878	20892
N5878.1	20896
N5880	20876
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N5895	20956
N5896	20960
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N5907.6	20986
N5908	20836
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N5910	20780
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N5910.2	20782
N5911	20786
N5912	20788
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N5912.5	20804
N5912.6	20805
N5913	20808
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N5914.2	20813.61
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N5915.02	20824.5
N5915.1	20822
N5915.22	20824
N5915.4	20825
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N5919	20988
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N5921.4	21006
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N5924	21044
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N5924.3	21045.5
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N5927	21052
N5927.2	21054
N5927.6	21060
N5929	21064
N5929.2	21068
N5929.4	21072
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N5929.8	21080
N5930	21084
N5931.2	21088
N5932	21092
N5933	21094
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N5933.3	21104
N5934	21116
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N5935.5	21121
N5935.8	21122
N5935.9	21122.2
N5935.95	21122.4
N5938	21132
N5938.1	21128
N5940	21140
N5940.5	21148
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N5941.8	21188
N5942	21192
N5943	21200
N5943.2	21196
N5943.7	21202
N5944	21204
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N5945	21212
N5946.05	21217
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N5949	21221.4
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N5954.6	21234.4
N5956	21236
N5957	21238
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N5962.5	21258
N5963	21256
N5964	21259
N5965	21259.5
N5967	21260
N5968	21264
N5969	21268
N5969.5	21269
N5970	21272
N5970.5	21272.1
N5970.6	21272.15
N5971	21272.2
N5971.1	21272.3
N5971.15	21272.35
N5971.3	21272.4
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N5973	21274
N5978.2	21276
N5978.6	21292.5
N5979	21292
N5980	21284
N5980.1	21288
N5983	21293
N5983.2	21294
N5985	21300
N5985.2	21304
N6156	21308
N6158	21312
N6158.5	21316
N6159	21317
N6159.1	21317.1
N6159.3	21318
N6159.4	21318.5
N6159.6	21319
N6162	21320
N6166	21324
N6167	21325
N6167.1	21325.1
N6168	21328
N6168.2	21330
N6168.3	21331
N6168.31	21331.1
N6168.4	21331.5
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N6170	21336
N6171	21332
N6171.4	21340
N6173	21344
N6173.5	21412.5
N6174	21370
N6176	21356
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N6176.5	21376

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

Inter.	—	U.S.
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N6183		21388
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N6186.5		21400
N6189		21408
N6190		21412
N6191		21413
N6191.1		21413.5
N6191.2		21413.7
N6191.3		21414
N6193		21418
N6194		21420
N6198		21422
N6198.1		21422.1
N6210		21432
N6214		21436
N6220		21452
N6221		21440
N6224		21444
N6224.1		21448
N6226		21450
N6226.2		21450.1
N6226.4		21450.2
N6227		21451
N6228		21456
N6230		21464
N6234		21468
N6236		21472
N6238		21480
N6239		21476
N6242		21484
N6244		21488
N6246		21492
N6248		21496
N6250		21500
N6251.5		21504
N6251.8		21508
N6252		21509
N6252.2		21509.1
N6252.4		21510
N6252.6		21511
N6252.7		21511.5
N6253		21512
N6253.2		21516
N6253.3		21517
N6253.4		21518
N6253.5		21519
N6253.6		21520
N6253.7		21521
N6254.5		21524
N6254.6		21526
N6254.7		21528
N6255.4		21534
N6255.5		21540
N6255.51		21544
N6255.6		21545
N6255.7		21546
N6256		21564
N6256.2		21562
N6256.4		21556
N6256.41		21560
N6256.9		21572
N6257		21568
N6257.1		21576
N6258		21580
N6258.1		21584
N6259		21588
N6259.1		21592
N6259.2		21590
N6260		21596
N6263		21604
N6263.1		21608
N6264		21598
N6264.4		21600
N6264.5		21602
N6266		21612
N6266.3		21613
N6266.4		21614
N6266.5		21615
N6266.51		21615.1
N6266.6		21615.2
N6266.7		21615.3
N6266.8		21615.4
N6267		21615.5
N6267.2		21616
N6267.6		21621
N6267.7		21621.5
N6268		21624
N6274		21628
N6275		21628.5
N6276		21628.6
N6277		21629.5
N6277.1		21629.51
N6278		21630
N6278.1		21630.1
N6278.4		21631
N6278.5		21631.5
N6280		21632
N6284		21636
N6288		21640
N6290		21644
N6292		21648
N6294		21652
N6296.4		21664
N6296.6		21672
N6299		21676
N6299.5		21680
N6304		21692
N6305		21696
N6316		21708
N6318		21712
N6322		21716
N6323		21720
N6324		21722
N6325		21724
N6326		21728
N7601		16775
N7601.5		16787
N7640.5		17266
N7641		17274
N7642		17274.5
N7669		18245
N7700		21273
N7761		21326
N7860		21700