	Name	Location	Light above	Miles
No.	Character and period of light	Latitude, N. Longitude, W.	water	seen
	SEACOAST	. , . , ,	Feet	
155	Toro Creek Bell Buoy 10A	In 55 feet, in Estero Bay 35 24.4 120 53.0		
156	ESTERO WHARF	35 24.7 120 52.7	30	
56.5	Estero Submarine Terminal Gong Buoy.	35 24.3 120 53.3		
157	Mouse Rock Bell Buoy 3 MR.	In 40 feet. Marks rock at entrance to Cayucos Land- ing.		
158	Von Helm Rock Lighted Whistle Buoy 12VH.	35 26.3 120 54.7 In 120 feet, seaward of rock. 35 32.2 121 07.0	16	9
159	Fl. W., 10 sec. San Simeon Bell Buoy 1	In 42 feet, southeast of San Simeon Point.		
160	San Simeon Aviation Fl. W., 10 sec. U.	35     37.7     121     11.3       35     39.1     121     11.0	50	15
161	PIEDRAS BLANCAS Gp. Fl. W., 15 sec. 2 flashes.	On point	158	19
162	Cape San Martin	Near end of point of cape	200	11
163	Fl. W., 30 sec. U. POINT SUR Fl. W., 15 sec. Radiobeacon. Distance-Finding Station.	35 53.3 121 27.8 Near west end of Moro Rock_ 36 18.4 121 54.0	270	23
164	Point Cypress Lighted Gong Buoy 14C PT.	36 35.0 121 59.0	12	8
165	Fl. W., 10 sec. POINT PINOS Occ. W., 30 sec.	On point, south side of entrance to Monterey Bay. 36 38.0 121 56.0	89	15
166	Point Pinos Lighted Whistle Buoy 2 Pt. P. Fl. R., 10 sec.	In 135 feet, off point south side of Monterey Bay. 36 38.7 121 56.4		9

110	Candlepower	Light characteristic	Structure, vessel or buoy
No.	Apparatus Illuminant	Fog signal	Top of lantern above ground Established Rebuilt
155		BELL, on buoy. Maintained by Standard Oil Co. of Cali- fornia.	Feet Year White
156	540 e	Maintained by the Standard	1935
156.5		Oil Co. of California. GONG, on buoy. Maintained by Standard Oil Co. of Cali- fornia.	White.
157		BELL, on buoy	Black.
158	390 375 mm a	Flash 1 secWHISTLE, on buoy.	Red.
159		BELL, on buoy	Black.
160	2,000,000 Rf e	Flash 0.3 sec. Maintained by W. R. Hearst.	1934
161	250,000 1 e	Flash 0.8 sec., eclipse 3 sec., flash 0.8 sec., eclipse 10.4 sec. From Nov. 1 to Mar. 1, light is displayed from 1 hour before sunset to 1 hour after sunrise.  DIAPHONE, air; blast 3 sec., silent 27 sec. Siren if dia-	White conical tower. 1875
162	480	phone is disabled. Flash 2 sec	White structure. 1934
163	375 mm a 1,000,000 1 e	Flash 0.6 sec., eclipse 14.4 sec_ DIAPHONE, air; group of 2 blasts every 60 sec., blast 2 sec., silent 1 sec., blast 3 sec., silent 54 sec. From Nov. 1 to Mar. 1, light is displayed from 1 hour before sunset to 1 hour after sun- rise.	Gray square stone tower on fog signal building. 1889
		RADIOBEACON: Transmits on 302 kc, groups of dot, 2 dashes, dot ( • — • ).  Antenna lead-in at lighthouse.	DISTANCE-FINDING STATION. For method of operation, see p. 7.
164	130 200 mm a	Flash 2 sec GONG, on buoy.	Red.
165	29, 000 3 e	Light 20 sec., eclipse 10 sec.— HORN, diaphragm, air; group of 2 blasts every 30 sec.; blast 2 sec., silent 2 sec., blast 2 sec., silent 24 sec.	White tower on dwelling. 1855 1907
166	140 375 mm a	Flash 1 sec	Red.

for the Atlantic coast, Pacific coast, and the Great Lakes, are convenient for quick reference

Distance-finding stations.—At the stations listed on page 8, the radiobeacon and sound signals are synchronized for distance finding. Whenever the sound signal is operating a group of two radio dashes, a short 1-second and a long 5-second dash respectively, is transmitted every 3 minutes at the end of the radiobeacon minute of operation. A group of two sound signal blasts of corresponding length is sounded at the same time. When within audible range of the sound signal, navigators on vessels with radio receivers capable of receiving the radiobeacon signals may readily determine their distance from the station by observing the time in seconds which elapses between hearing any part of the distinctive group of radio dashes, say the end of the long dash, and the corresponding part of the group of sound blasts, say the end of the long blast, and dividing the result by 5 (or more exactly 5.5) for nautical miles. The error of such observations should not exceed 10 percent.

Where the submarine oscillator is synchronized with the radiobeacon, the method is the same excepting that the interval in seconds is divided by 1.25 to obtain the distance off in nautical miles. Distance-finding stations.—At the stations listed on page 8, the radiobeacon ad sound signals are synchronized for distance finding. Whenever the sound

obtain the distance off in nautical miles.

The 1-second dash preceding the long dash is a stand-by or warning signal as is also the 1-second blast. The latter serves as an identification signal to assure the observer that he is taking time on the correct sound signal blast.

For observations on aerial sound signals a watch with second hand is all that is needed, although a stop watch is more convenient. When observing submarine

signals a stop watch or other refired method of time measurement must be used because of the more rapid travel of sound in water.

Observations for distance off at these stations are not restricted to vessels with direction finders, but may be made by any vessel having a radio receiver

capable of receiving in the band 285 to 315 kilocycles within which radiobeacons are operated. A loud speaker is desirable although not necessary.

The time relation of these signals at stations where synchronization is now effective is shown diagrammatically in the table which follows. An example of the use of these synchronized signals follows: In the case of Los Angeles Light Station if the interval between hearing the end of the long radio dash marking the end of the radiobeacon minute and the end of the long (5-second) blast of the diaphone is 33 seconds, the observer is 33+5.5=6 miles from the light station.

Caution must be used in approaching radiobeacons on radio bearings, and care must be taken to set courses to pass safely clear. The risk of collision will be avoided by insuring that the radio bearing does not remain constant. This caution is applicable to those lightships and stations on submarine sites which are passed close to.

Dial settings of radio direction finders.—To avoid interference, it is important to determine and record correct dial settings for each station and to adhere to

Accuracy and use of bearings.—Long experience with properly installed and correctly calibrated direction finders maintained in good condition indicates an average accuracy of 1° to 2°. Departures from this accuracy will sometimes be experienced when taking bearings from a position close to the shore line and over land. Night effect which is sometimes encountered, particularly near sunrise and sunset, and which is usually manifested in very wide or changing minimum, and sunset, and which is usually manifested in very wide or changing minimum, tends to limit the distance at which reliable bearings can be obtained. In observing marine radiobeacons, night effect is not usually encountered at distances less than 30 to 50 miles. The existence of night effect can almost invariably be confirmed by rapidly taking repeated bearings and when shown to be present bearings should be used with extreme caution. Serious errors may result in bearings taken if other shipboard antennas are erected close to the direction finder after calibration or if the direction finder, ship's rigging, or other equipment affecting direction finder performance is not maintained in the condition existing at the time of last calibration. Regular and frequent use of the direction finder under all conditions is one of the best means of insuring ability to obtain accurate bearings and that the direction finder is at all times in proper condition. weather operating periods provide ample opportunity for such use.

Full use should be taken of the opportunity for fixing position by cross bearings on two or more radiobeacons which is provided through the convenient arrangement of stations as to frequency and sequence of operation and in most cases their

favorable geographic location.

Warning of fog.—Hearing the groups of short (1-sec.) and long (5-sec.) dashes of the radiobeacon, at stations where the radiobeacon and sound signals are synchronized for distance finding, is an indication that there is fog in the vicinity of the station and that the sound signal is operatin

## SEACOAST

No.	Name Character and period of light	Location  Latitude, N. Longitude, W.	Light above water	Miles seen
163	SEACOAST  POINT SUR.  Fl. W., 15 sec. Radiobeacon. Distance-Finding Station.	Near west end of Moro Rock_ 36 18.4 121 54.0	Feet 270	23
164	Point Cypress Lighted Gong Buoy 14C PT. Fl. W., 10 sec.	36 35.0 121 59.0	12	8
165	POINT PINOS_ Occ. W., 30 sec.	On point, south side of entrance to Monterey Bay. 36 38.0 121 56.0	89	15
166	Point Pinos Lighted Whistle Buoy 2 Pt. P. Fl. R., 10 sec.	In 135 feet, off point south side of Monterey Bay. 36 38.7 121 56.4	16	9
167	Monterey Lighted Bell Buoy 4_ Fl. W., 10 sec.	36 38.7 121 56.4 In 120 feet, off Point Cab- rillo.	12	9
168	MONTEREY BAY BREAK- WATER. U. Fl. R., 6 sec.	At outer end of breakwater36 36.5 121 53.2	20	
68. 5		On northerly end of Mon- terey Municipal Wharf.		
169	Santa Cruz Gp. Fl. W., 15 sec., U. 3 flashes.	On point, west side of entrance to Santa Cruz Harbor.  36 57.1 122 01.6	55	13
170	Santa Cruz Whistle Buoy SC	In 60 feet, off Santa Cruz Harbor.		
171	DAVENPORT WHARFU.	97 00 -	30	11
172	Año Nuevo Island Gp. Fl. W., 60 sec. 3 flashes.	00.5 122 12.0 On southwest side of island 37 06.5 122 20.2	73	14
173	PIGEON POINTFl. W., 10 sec.	On end of point	148	18

Light characteristic	Structure, vessel or buoy
Fog signal	Top of lantern Established Rebuilt
0.6 sec., eclipse 14.4 sec. HONE, air; group of 2 ts every 60 sec., blast 3 silent 1 sec., blast 3 silent 54 sec. From 1 to Mar. 1, light is layed from 1 hour before et to 1 hour after sunrise.  OBEACON:Transmits on kc, groups of dot, 2 tes, dot ( • • • • ). enna lead-in at light- sec.	Feet Year Gray square stone tower on fog signal building. 1889 50  DISTANCE-FINDING STA- TION. For method of op- eration, see p. 10.
2 sec , on buoy.	Red.
20 sec., eclipse 10 sec I, diaphragm, air; group 2 blasts every 30 sec.; t 2 sec., silent 2 sec., tt 2 sec., silent 24 sec.	White tower on dwelling. 43 1855 1907
1 sec TLE, on buoy.	Red.
1 sec, on buoy. 1 sec	
1 sec	White square house. 1934
electric; 1 stroke every	1940
shes, 1 sec. each; 2 pses, 2 sec. each; 1 pse 8 sec. Not visible thward of 99°.	White square tower on dwelling. 1869
STLE, on buoy	Black and white vertical stripes.
tained by Santa Cruz	1934
1 2 sec., eclipse 2 sec., h 2 sec., eclipse 2 sec., h 2 sec., eclipse 50 sec. PHONE, air, two-tone; up of 3 blasts every 60; blast 2 sec., silent 2 sec., st 2 sec., silent 50 sec. en if diaphone is disabled.	
1 1.2 sec., eclipse 8.8 sec. om Nov. 1 to Mar. 1, light displayed from 1 hour ore sunset to 1 hour after rise. PHONE, air, two-tone; up of 2 blasts every 30; blast 2 sec., silent 6 sec.;	115
100	1.2 sec., eclipse 8.8 sec. m Nov. 1 to Mar. 1, light displayed from 1 hour orre sunset to 1 hour after rise.  HONE, air, two-tone; up of 2 blasts every 30

F. 16,

No:	Name Character and period of light	Location  Latitude, N. Longitude, W.	Light above water	Miles
161	SEACOAST PIEDRAS BLANCAS Gp. Fl. W., 15 sec. 2 flashes.	On point	Feet 158	19
162 163	Cape San Martin Fl. W., 30 sec. U. POINT SUR Fl. W., 15 sec. Radiobeacon. Distance-Finding Station.	25 52 191 97 0	200 270	11 23
164 165	Point Cypress Lighted Gong Buoy 14C PT. Fl. W., 10 sec. POINT PINOS Occ. W., 30 sec.	36 35.0 121 59.0	12 89	8 15
166	Point Pinos Lighted Whistle Buoy 2 Pt. P. Fl. R., 10 sec.	In 135 feet, off point south side of Monterey Bay.	16	9
167 168	Monterey Lighted Bell Buoy 4- Fl. W., 10 sec. MONTEREY BAY BREAK-	In 120 feet, off Point Cabrillo.  At outer end of breakwater	12 20	9
68. 5	WATER. U. Fl. R., 6 sec. MONTEREY FOG SIGNAL	36 36.5 121 53.2 On northerly end of Mon-	20	
169	Santa Cruz Gp. Fl. W., 15 sec., U. 3 flashes.	On point, west side of entrance to Santa Cruz Harbor.	55	13
170	Santa Cruz Whistle Buoy SC	TALL DOF.		
171	DAVENPORT WHARF	36 56.3 122 05.0 On outer end of wharf 37 00.5 122 12.0	30	11

	Candlepower	Light characteristic	Structure, vessel or buoy
No.	Apparatus Illuminant	Fog signal	Top of lantern above ground Established Rebuilt
161	250,000 1 e	Flash 0.8 sec., eclipse 3 sec., flash 0.8 sec., eclipse 10.4 sec. From Nov. 1 to Mar. 1, light is displayed from 1 hour before sunset to 1 hour after sunrise.  DIAPHONE, air; blast 3 sec., silent 27 sec. Siren if dia-	Feet Year White conical tower. 1875
162	480	phone is disabled. Flash 2 sec	White structure. 1934
163	375 mm a 1,000,000 1 e	Flash 0.6 sec., eclipse 14.4 sec. DIAPHONE, air; group of 2 blasts every 60 sec., blast 2 sec., silent 1 sec., blast 3 sec., silent 54 sec. From Nov. 1 to Mar. 1, light is displayed from 1 hour before sunset to 1 hour after sunrise.	Gray square stone tower on fog signal building. 1889
164	130	RADIOBEACON: Transmitson 302 kc, groups of dot, 2 dashes, dot ( • • • ). Antenna lead-in at light- house. Flash 2 sec.	DISTANCE-FINDING STATION. For method of operation, see p. 10.
	200 mm a	GONG, on buoy.	
165	29, 000 3 e	Light 20 sec., eclipse 10 sec HORN, diaphragm, air; group of 2 blasts every 30 sec.; blast 2 sec., silent 2 sec.,	White tower on dwelling. 43 1855 1907
166	140 375 mm a	blast 2 sec., silent 24 sec. Flash 1 sec WHISTLE, on buoy.	Red.
167	160 200 mm a	Flash 1 sec	Red.
168	90 300 mm a	BELL, on buoy. Flash 1 sec	White square house. 1934
168.5		BELL electric; 1 stroke every	1940
169	11, 000 300 mm e	15 sec. 3 flashes, 1 sec. each; 2 eclipses, 2 sec. each; 1 eclipse 8 sec. Not visible	White wooden tower. 1869 39 1941
170		northward of 99°. WHISTLE, on buoy	Black and white vertical stripes.
171	720 e	Maintained by Santa Cruz Portland Cement Co.	1934

## SEACOAST

No.	Name Character and period of light	Location  Latitude, N. Longitude, W.	Light above water	Miles seen
161	SEACOAST PIEDRAS BLANCAS	On point	Feet 158	19
	*			
162	CAPE SAN MARTIN	Near end of point of cape 35 53.3 121 27.8	200	11
163	POINT SUR F1. W., 15 sec. Radiobeacon. Distance-Finding Station.	On westerly end of Point Sur. 36 18.4 121 54.0	270	23
<b>1</b> 64	Point Cypress Lighted Gong Buoy 14C PT. FI. W., 10 sec. CR. POINT PINOS Occ. W., 30 sec.	36 35.0 121 59.0	12 89	8
	,	36 38.0 121 56.0		
166	Point Pinos Lighted Whistle Buoy 2 Pt. P. CR. Fl. R., 10 sec.	In 135 feet, off point south side of Monterey Bay. 36 38.7 121 56.4	16	9
168	MONTEREY BAY BREAK-		20	
168.5	Fl. R., 6 sec. CR. MONTEREY FOG SIGNAL	On northerly end of Mon- terey Municipal Wharf.		
169	Santa Cruz	On point, west side of entrance to Santa Cruz Harbor.  36 57.1 122 01.6	55	13
170	Santa Cruz Whistle Buoy SC	In 60 feet, off Santa Cruz Harbor.		
171	DAVENPORT WHARF	36 56.3 122 05.0 On outer end of wharf 37 00.5 122 12.0	30	11

TE—Temporarily extinguished. CR—Candlepower reduced.

	Candlepower	Light characteristic	Structure, vessel or buoy
No.	Apparatus Illuminant	Fog signal	Top of lantern Established Rebuilt
161	250,000 1 e	Flash 0.8 sec., eclipse 3 sec., flash 0.8 sec., eclipse 10.4 sec. From Nov. 1 to Mar. 1, light is displayed from 1 hour before sunset to 1 hour after sunrise.	Feet Year White conical tower. 1875
162	480	DIAPHONE, air; blast 3 sec., silent 27 sec. Siren if dia- phone is disabled. Flash 2 sec	White structure 1024
102	375 mm a	Flash 2 sec	White structure. 1934
163	1,000,000 1 e	Flash 0.6 sec., eclipse 14.4 sec_ DIAPHONE, air; group of 2 blasts every 60 sec., blast 2 sec., silent 1 sec., blast 3 sec., silent 54 sec. From Nov. 1 to Mar. 1, light is displayed from 1 hour before	Gray square stone tower on fog signal building. 1889 50
		sunset to 1 hour after sunrise.  RADIOBEACON: Transmits on 302 kc, groups of dot, 2 dashes, dot ( • • • • ).  Antenna lead-in at light- house.	DISTANCE-FINDING STA- TION. For method of op- eration, see p. 9.
164	200 mm a	Flash 2 sec GONG, on buoy.	Red.
165	29, 000 3 e	Light 20 sec., eclipse 10 sec HORN, diaphragm, air; group of 2 blasts every 30 sec.; blast 2 sec., silent 2 sec., blast 2 sec., silent 24 sec.	White tower on dwelling.  1855 1907
166	140 200 mm a	Flash 1 sec WHISTLE, on buoy.	Red.
168	90 300 mm a	Flash 1 sec	White square house. 1934
168.5		BELL electric; 1 stroke every 15 sec.	1940
169	11, 000 300 mm e	3 flashes, 1 sec. each; 2 eclipses, 2 sec. each; 1 eclipse 8 sec. Not visible northward of 99°.	White wooden tower. 1869 39 1941
170		WHISTLE, on buoy	Black and white vertical stripes.
171	720 e	Maintained by Santa Cruz Portland Cement Co.	1934

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## SEACOAST

No.	Name Character and period of light	Location Latitude, N. Longitude, W.	Light above water	Miles
161	SEACOAST PIEDRAS BLANCAS	On point35 39.9 121 17.1	Feet 158	19
162 163	Fl. W., 30 sec. TE. U.	Near end of point of cape 35 53.3 121 27.8 On westerly end of Point Sur. 36 18.4 121 54.0	200 270	11 23
<b>1</b> 64	Point Cypress Lighted Gong Buoy 14C PT. Fl. W., 10 sec. POINT PINOS Occ. W., 30 sec.	36 35.0 191 50.0	12 89	8
166 168	Point Pinos Lighted Whistle Buoy 2 Pt. P. Fl. B., 10 sec. Monterey Bay Break- WATER. Fl. R., 6 sec.		16 20	9
168.5 168.6	MONTEREY FOG SIGNAL  Moss Landing Approach Bell Buoy ML.	On northerly end of Mon- terey Municipal Wharf. In 114 feet, 1½ miles off en-		
168.7	Moss Landing Wharf Fog Signal.	trance. 36 48.4 121 48.7 On end of wharf 36 48.1 121 47.4		
69	Santa Cruz	On point, west side of entrance to Santa Cruz Harbor. 36 57.1 122 01.6	55	13
71	DAVENPORT WHARFF. R. U.	In 60 feet, off Santa Cruz Harbor. 36 56.3 122 05.0 On outer end of wharf 37 00.5 122 12.0	30	11

TE-	Tempor	ariller .	artir	arryle!	bod

	Candlepower	Light characteristic	Structure, vessel or buoy
No.	Apparatus Illuminant	Fog signal	Top of lantern above ground Established Rebuilt
161	250,000 1 e	Flash 0.8 sec., eclipse 3 sec., flash 0.8 sec., eclipse 10.4 sec. From Nov. 1 to Mar. 1, light is displayed from 1 hour before sunset to 1 hour after sunrise.  DIAPHONE, air; blast 3 sec.,	Feet Year White conical tower. 1875
162	480.	silent 27 sec. Siren if dia- phone is disabled. Flash 2 sec.	White structure. 1934
	375 mm a		Gray square stone tower on
163	1,000,000 1 e	Flash 0.6 sec., eclipse 14.4 sec_ DIAPHONE, air; group of 2 blasts every 60 sec., blast 2 sec., silent 1 sec., blast 3 sec., silent 54 sec. From Nov. 1 to Mar. 1, light is displayed from 1 hour before sunset to 1 hour after sunrise.	fog signal building. 1889
		RADIOBEACON: Transmits on 302 kc, groups of dot, 2 dashes, dot ( • — • ). Antenna lead-in at light-	DISTANCE-FINDING STATION. For method of operation, see p. 9.
164	130 200 mm a	house. Flash 2 sec GONG, on buoy.	Red.
165	29, 000 3 e	Light 20 sec., eclipse 10 sec HORN, diaphragm, air; group of 2 blasts every 30 sec.; blast 2 sec., silent 2 sec., blast 2 sec., silent 24 sec.	White tower on dwelling.  1855 1907
166	140 200 mm a	Siren if horn is disabled. Flash 1 sec WHISTLE, on buoy.	Red.
168	90 300 mm a	Flash 1 sec	White square house. 193
168.5		BELL electric; 1 stroke every 15 sec.	1940
168.6		BELL, on buoy	Black and white vertica stripes.
168.7		SIREN, electric; group of 2 blasts every 20 sec.; blast 2 sec., silent 2 sec., blast 2 sec., silent 14 sec.	
169	11, 000 300 mm e	3 flashes, 1 sec. each; 2 eclipses, 2 sec. each; 1 eclipse 8 sec. Not visible northward of 99°.	
170		WHISTLE, on buoy	Black and white vertice stripes.
171	720 e	Maintained by Santa Cruz Portland Cement Co.	193

No.	Name Character and period of light	Location Latitude, N. Longitude, W.	Light above water	Miles seen
205	SEACOAST PIEDRAS BLANCAS Gp. Fl. W., 15 sec. 2 flashes.	On point35 39.9 121 17.1	Feet 158	19
206 207	CAPE SAN MARTIN  Fl. W., 30 sec. TE. U.  POINT SUR  Fl. W., 15 sec.  Radiobeacon.  Distance-Finding Station.	Near end of point of cape	200 270	11 23
208	Point Cypress Lighted Gong	In 108 feet	12	8
209	Buoy 14C PT. Fl. W., 10 sec. POINT PINOS	36 35.0 121 59.0 On point, south side of en-	89	15
	Occ. W., 30 sec.	trance to Monterey Bay. 36 38.0 121 56.0		10
210	Point Pinos Lighted Whistle Buoy 2 Pt. P. Fl. R., 10 sec.	In 135 feet, off point south side of Monterey Bay. 36 38.7 121 56.4	16	9
211	Monterey Lighted Bell Buoy 4- Fl. W., 10 sec.	36 38.7 121 56.4 In 120 feet, off Point Cabrillo_ 36 37.5 121 53.7	12	9
212	MONTEREY BAY BREAK- WATER. Fl. R., 6 sec. U.	At outer end of breakwater 36 36.5 121 53.2	20	
213	MONTEREY FOG SIGNAL	On northerly end of Mon- terey Municipal Wharf.		
214	Moss Landing Approach Whis- tle Buoy ML.	In 114 feet, 1¼ miles off entrance.		
215	Moss Landing Wharf Fog Signal.	36 48.4 121 48.7 On end of wharf 121 47.4		
216	Santa Cruz Gp. Fl. W., 15 sec., U. 3 flashes.	On point, west side of entrance to Santa Cruz Harbor. 36 57.1 122 01.6	55	13

TE-Tem	porarily	extingu	ished.

			SAN FRANCISCO DIST.
	Candlepower	Light characteristic	Structure, vessel or buoy
No.	Apparatus Iliuminant	Fog signal	Top of lantern Established Rebuilt
205	250,000 1 e	Flash 0.8 sec., eclipse 3 sec., flash 0.8 sec., eclipse 10.4 sec. From Nov. 1 to Mar. 1 light is displayed from 1 hour before sunset to 1 hour after sunrise.  DIAPHONE, air; blast 3 sec., silent 27 sec. Siren if dia-	Feet Year White conical tower. 1875
206	480	phone is disabled. Flash 2 sec	White structure. 1934
207	375 mm a 1,000,000 1 e	Flash 0.6 sec., eclipse 14.4 sec DIAPHONE, air, two-tone; group of 2 blasts every 60 sec., blast 2 sec., silent 1 sec., blast 3 sec., silent 54 sec. From Nov. 1 to Mar. 1, light is displayed from 1 hour before sunset to 1 hour after sunrise.	Gray square stone tower on fog signal building. 1889
208	130 200 mm a	RADIO BEACON: Transmits on 302 kc, groups of dot, 2 dashes, dot ( • • • • ). Antenna lead-in at lighthouse. Flash 2 sec.	DISTANCE-FINDING STATION. For method of operation, see p. 9.  Red.
209	29,000 3 e	Light 20 sec., eclipse 10 sec. HORN, diaphragm, air; group of 2 blasts every 30 sec.; blast 2 sec., silent 2 sec., blast 2 sec., silent 24 sec. Siren if horn is disabled.	White tower on dwelling. 43 1855 1907
210	140 375 mm a	Flash 1 sec WHISTLE, on buoy.	Red.
211	160	Flash 1 sec	Red.
212	200 mm a 90 300 mm a	BELL, on buoy. Flash 1 sec	White square house. 1934
213		BELL, electric; 1 stroke every	1940
214		WHISTLE, on buoy	Black and white vertical stripes.
215		SIREN, electric; group of 2 blasts every 20 sec.; blast 2 sec., silent 2 sec., blast	1943
216	11,000 300 mm e	2 sec., silent 14 sec. 3 flashes, 1 sec. each; 2 eclipses, 2 sec. each; 1 eclipse 8 sec. Not visible	White wooden tower. 1869 39 1941

No.	Name Character and period of light	Location  Latitude, N. Longitude, W.	Light above water	Miles seen
204	SEACOAST San Simeon Lighted Bell Buoy 1.	In 42 feet, southeast of San Simeon Point.	Feet 12	7
205	FI. W., 5 sec. PIEDRAS BLANCAS Gp. Fl. W., 15 sec. 2 flashes.	35 37.7 121 11.3 On point 35 39.9 121 17.1	158	19
206 207	Cape San Martin	Near end of point of cape	200 270	11 23
	Radiobeacon. Distance-Finding Station.	10.1		
,	**			
208	Point Cypress Lighted Gong Buoy 14C PT. Fl. W., 10 sec. POINT PINOS	In 108 feet 36 35.0 121 59.0	·12	8
209	POINT PINOS Occ. W., 30 sec.	On point, south side of entrance to Monterey Bay. 36 38.0 121 56.0	. 89	15
210	Point Pinos Lighted Whistle Buoy 2 Pt. P. Fl. R., 10 sec.	side of Monterey Bay. 36 38.7 121 56.4	16	9
211	Monterey Lighted Bell Buoy 4_ Fl. W., 10 sec.	In 120 feet, off Point Cabrillo_ 36 37.5 121 53.7	12	9
212	MONTEREY BAY BREAK- WATER. Fl. R., 6 sec. U.	At outer end of breakwater 36 36.5 121 53.2	20	
213	MONTEREY FOG SIGNAL			
214	Moss Landing Approach Whis- tle Buoy ML.	terey Municipal Wharf. In 114 feet, 1½ miles off entrance. 36 48.4 121 48.7		
215	Moss Landing Wharf Fog Signal,	On end of wharf		
216	Santa Cruz Gp. Fl. W., 15 sec., U. 3 flashes.	On point, west side of entrance to Santa Cruz Harbor.	55	13

	Candlepower	Light characteristic	Structure, vessel or buoy
No.	Apparatus Illuminant	Fog signal	Top of lantern above ground Established Rebuilt
		36	Feet Year
204	55 150 mm e	Flash 1 sec BELL, on buoy.	Black.
205	250,000 1 e	Flash 0.8 sec., eclipse 3 sec., flash 0.8 sec., eclipse 10.4 sec. From Nov. 1 to Mar. 1 light is displayed from 1 hour before sunset to 1 hour after sunrise.	White conical tower. 1874
	-	DIAPHONE, air; blast 3 sec., silent 27 sec. Siren if dia- phone is disabled.	
206	400 375 mm a	Flash 2 sec	White structure, 193
207	1,000,000 1 e	Flash 0.6 sec., eclipse 14.4 sec DIAPHONE, air, group of 2 blasts every 60 sec., blast 2 sec., silent 1 sec., blast 3 sec., silent 54 sec. From Nov. 1 to Mar. 1, light is displayed from 1 hour be- fore sunset to 1 hour after	Gray square stone tower or fog signal building. 1889 50
		sunrise.  RADIO BEACON: Transmits on 302 kc, groups of dot, 2 dashes, dot ( • • • • ). Antenna lead-in at light- house.	DISTANCE-FINDING STA TION. For method of op eration, see p. 9.
208	130 200 mm a	Flash 2 sec GONG, on buoy.	Red.
209	29,000 3 e	Light 20 sec., eclipse 10 sec. HORN, diaphragm, air; group of 2 blasts every 30 sec.; blast 2 sec., silent 2 sec., blast 2 sec., silent 24 sec. 447yards 336° from lighthouse.	White tower on dwelling. 43 1854
210	140 375 mm a	Flash 1 sec WHISTLE, on buoy.	Red.
211	160	Flash 1 sec	Red.
212	200 mm a 90 300 mm a	BELL, on buoy. Flash 1 sec	White square house. 193
213		BELL, electric; 1 stroke every	1940
214		15 sec. WHISTLE, on buoy	Black and white vertica stripes.
215		SIREN, electric; group of 2 blasts every 20 sec.; blast 2 sec., silent 2 sec., blast	1943
216	11,000 300 mm e	2 sec., silent 14 sec. 3 flashes, 1 sec. each; 2 eclipses, 2 sec. each; 1 eclipse 8 sec. Not visible northward of 99°.	White wooden tower. 1869

## SEACOAST

No.	Name	Location	Light	Miles
	Character and period of light	Latitude, N. Longitude, W.	water	seen
	SEACOAST	19		
199	Toro Creek Bell Buoy 10A	In 55 feet, in Estero Bay 35 24.4 120 53.0	Feet	
200	ESTERO WHARFU.	35 24.7 120 52.7	30	
201	Estero Submarine Terminal Gong Buoy.	35 24.3 120 53.3		
202	Mouse Rock Bell Buoy 3 MR.	In 40 feet. Marks rock at entrance to Cayucos Land- ing.		
203	Von Helm Rock Lighted Whistle Buoy 12VH.	35 26.3 120 54.7 In 120 feet, seaward of rocks 35 32.2 121 07.0	16	9
204	Fl. W., 10 sec. San Simeon Lighted Bell Buoy 1.	In 42 feet, southeast of San Simeon Point.	12	7
205	Fl. W., 5 sec. PIEDRAS BLANCAS Gp. Fl. W., 15 sec. 2 flashes.	35 37.7 121 11.3 On point 35 39.9 121 17.1	158	19
206	CAPE SAN MARTIN  Fl. W., 30 sec. U.  POINT SUR  Fl. W., 15 sec.  Radiobeacon.  Distance-Finding Station.	Near end of point of cape	200 270	11 23
08	Point Cypress Lighted Gong Buoy 14C PT. Fl. W., 10 sec.	In 108 feet 36 35.0 121 59.0	12	8
09	POINT PINOS_ Occ. W., 30 sec.	On point, south side of entrance to Monterey Bay. 36 38.0 121 56.0	89	15
10	Point Pinos Lighted Whistle Buoy 2 Pt. P.	In 135 feet, off point south side of Monterey Bay.	16	8
11	Fl. R., 10 sec. Monterey Lighted Bell Buoy 4-	36 38.7 121 56.4 In 120 feet, off Point Cabrillo_	12	9
12	FI. W., 10 sec.  MONTEREY BAY BREAK- WATER.	36 37.5 121 53.7 At outer end of breakwater 36 36.5 121 53.2	20	

	Candlepower	Light characteristic	Structure, vessel or buoy
No.	Apparatus Illuminant	Fog signal	Top of lantern Establishe above ground Rebuilt
199		BELL, on buoy. Maintained by Standard Oil Co. of	Feet Year White.
200	540 e	California.  Maintained by the Standard Oil Co. of California.	193
201		GONG, on buoy. Maintained by Standard Oil Co. of California.	White.
202		BELL, on buoy	Black.
203	380 375 mm a	Flash 1 sec WHISTLE, on buoy.	Red.
204	60 200 mm a	Flash 1 secBELL, on buoy.	Black.
205	250,000 1 e	Flash 0.8 sec., eclipse 3 sec., flash 0.8 sec., eclipse 10.4 sec. From Nov. 1 to Mar. 1 light is displayed from 1 hour before sunset to 1 hour after sunrise.  DIAPHONE, air; blast 3 sec.,	White conical tower. 187.
206	400	silent 27 sec. Siren if dia- phone is disabled. Flash 2 sec.	White structure. 193
207	375 mm a 1,000,000 1 e	Flash 0.6 sec., eclipse 14.4 sec DIAPHONE, air, group of 2 blasts every 60 sec., blast 2 sec., silent 1 sec., blast 3 sec., silent 54 sec. From Nov. 1 to Mar. 1, light is displayed from 1 hour before sunset to 1 hour after sunrise.	Gray square stone tower of fog signal building. 1889
900		RADIO BEACON: Transmits on 302 kc, groups of dot, 2 dashes, dot ( • — • ).  Antenna lead-in at lighthouse.	DISTANCE-FINDING STA TION. For method of op eration, see p. 10.
208	200 mm a	Flash 2 sec GONG, on buoy.	Red.
209	29,000 3 e	Light 20 sec., eclipse 10 sec_ HORN, diaphragm, air; group of 2 blasts every 30 sec.; blast 2 sec., silent 2 sec., blast 2 sec., silent 24 sec. 447yards 336°from lighthouse.	185 190
210	100 375 mm a	Flash 1 sec WHISTLE, on buoy.	Red.
211	140	Flash 1 sec	Red.
212	200 mm a 90 300 mm a	Flash 1 sec	White square house. 193

No.	Name Character and period of light	Latitude, N. Longitude, W.	Light above water	Miles seen
	SEACOAST		7	
199	Toro Creek Bell Buoy 10A	In 55 feet, in Estero Bay 35 24.4 120 53.0	Feet	
200	ESTERO WHARF	35 24.7 120 52.7	30	
201	Estero Submarine Terminal Gong Buoy.	35 24.3 120 53.3		
202	Mouse Rock Bell Buoy 3 MR.	In 40 feet. Marks rock at entrance to Cayucos Land- ing.		
203	Von Helm Rock Lighted Whistle Buoy 12VH. Fl. W., 10 sec.	35 26.3 120 54.7 In 120 feet, seaward of rocks_ 35 32.2 121 07.0	16	9
204	San Simeon Lighted Bell Buoy 1.	In 42 feet, southeast of San Simeon Point.	12	7
205	FI. W., 5 sec. PIEDRAS BLANCAS Gp. Fl. W., 15 sec. 2 flashes.	35 37.7 121 11.3	158	19
206 207	CAPE SAN MARTIN  Fl. W., 30 sec. U.  POINT SUR  Fl. W., 15 sec. Radiobeacon. Distance-Finding Station.	Near end of point of cape 35 53.3 121 27.8 On westerly end of Point Sur. 36 18.4 121 54.0	200° 270	11 23
208	Point Cypress Lighted Gong Buoy 14C PT. Fl. W., 10 sec.	In 108 feet 36 35.0 121 59.0	12	8
209	FI. W., 10 sec. POINT PINOS Occ. W., 30 sec.	On point, south side of entrance to Monterey Bay. 36 38.0 121 56.0	89	15
210	Point Pinos Lighted Whistle Buoy 2 Pt. P. Fl. R., 10 sec.	In 135 feet, off point south side of Monterey Bay. 36 38.7 121 56.4	16	8

	Candlepower	Light characteristic	Structure, vessel or buoy
No.	Apparatus Illuminant	. Fog signal	Top of lantern Established above ground Rebuilt
	7.		Feet Year
199		BELL, on buoy. Maintained by Standard Oil Co. of California.	White.
200	540 e	Maintained by the Standard Oil Co. of California.	1935
201		GONG, on buoy. Maintained by Standard Oil Co. of California.	White.
202		BELL, on buoy	Black.
203	380 375 mm a	Flash 1 sec WHISTLE, on buoy.	Red.
204	60 200 mm a	Flash 1 sec BELL, on buoy.	Black.
205	250,000 1 e	Flash 0.8 sec., eclipse 3 sec., flash 0.8 sec., eclipse 10.4 sec. From Nov. 1 to Mar. 1 light is displayed from 1 hour before sunset to 1 hour	White conical tower. 1875
		after sunrise.  DIAPHONE, air, two-tone; blast 3 sec., silent 27 sec. Siren if diaphone is dis-	
206	400	abled. Flash 2 sec	White structure. 1934
207	375 mm a 1,000,000 1 e	Flash 0.6 sec., eclipse 14.4 sec DIAPHONE, air, group of 2 blasts every 60 sec., blast 2 sec., silent 1 sec., blast 3 sec., silent 54 sec. From Nov. 1 to Mar. 1, light is displayed from 1 hour be- fore sunset to 1 hour after sunrise.	Gray square stone tower on fog signal building. 1889 50
	142	RADIO BEACON: Transmits on 302 kc, groups of dot, 2 dashes, dot ( • — • ).  Antenna lead-in at lighthouse.	DISTANCE-FINDING STA- TION. For method of op- eration, see p. 11.
208	110 200 mm a	Flash 2 sec GONG, on buoy.	Red.
209	29,000 3 e	Light 20 sec., eclipse 10 sec_ HORN, diaphragm, air; group of 2 blasts every 30 sec.; blast 2 sec., silent 2 sec., blast 2 sec., silent 24 sec.	White tower on dwelling. 43 1855 1907
210	100 375 mm a	447 yards 336 from lighthouse. Flash 1 sec WHISTLE, on buoy.	Red.

No.	Name Character and period of light	Location Latitude, N. Longitude, W.	Light above water	Miles seen
199	SEACOAST Toro Creek Bell Buoy 10A	In 55 feet, in Estero Bay 35 24.4 120 53.0	Feet	
200		35 24.7 120 52.7	30	
201	F. R. U. Estero Submarine Terminal Gong Buoy.	35 24.3 120 53.3		
202	Mouse Rock Bell Buoy 3 MR.	In 40 feet. Marks rock at entrance to Cayucos Landing.		
203	Von Helm Rock Lighted Whistle Buoy 12VH. Fl. W., 10 sec.	35 26.3 120 54.7	16	9
204	San Simeon Lighted Bell Buoy 1.	In 42 feet, southeast of San Simeon Point.	12	7
205	Fl. W., 5 sec. PIEDRAS BLANCAS Gp. Fl. W., 15 sec. 2 flashes.	35 37 7 191 119	158	19
206	Cape San Martin	Near end of point of cape	200	11
207	POINT SUR. Fl. W., 15 sec. Radiobeacon. Distance-Finding Station.	35 53.3 121 27.8 On westerly end of Point Sur. 36 18.4 121 54.0	270	23
				-
208	Point Cypress Lighted Gong Buoy 14C PT.	In 108 feet 36 35.0 121 59.0	12	8
209	Fl. W., 10 sec. POINT PINOS Occ. W., 30 sec.	On point, south side of entrance to Monterey Bay. 36 38.0 121 56.0	89	15
210	Point Pinos Lighted Whistle Buoy 2 Pt. P. Fl. R., 10 sec.	In 135 feet, off point south side of Monterey Bay. 36 38.7 121 56.4	16	8

	Candlepower	Light characteristic	Structure, vessel or buoy
No.	Apparatus Illuminant	Fog signal	Top of lantern above ground Established Rebuilt
199		BELL, on buoy. Maintained by Standard Oil Co. of California.	Feet Year White.
200	540 e	Maintained by the Standard Oil Co. of California.	1935
201		GONG, on buoy. Maintained by Standard Oil Co. of California.	White.
202		BELL, on buoy	Black.
203	380 375 mm a	Flash 1 sec WHISTLE, on buoy.	Red.
204	60 200 mm a	Flash 1 sec BELL, on buoy.	Black.
205	250,000 1 e	Flash 0.8 sec., eclipse 3 sec., flash 0.8 sec., eclipse 10.4 sec. From Nov. 1 to Mar. 1 light is displayed from 1 hour before sunset to 1 hour after sunrise.  DIAPHONE, air, two-tone;	White conical tower. 1875
206	400	blast 3 sec., silent 27 sec. Flash 2 sec	White structure. 1934
207	375 mm a 1,000,000 1 e	Flash 0.6 sec., eclipse 14.4 sec DIAPHONE, air, group of 2 blasts every 60 sec., blast 2 sec., silent 1 sec., blast 3 sec., silent 54 sec. From Nov. 1 to Mar. 1, light is displayed from 1 hour be- fore sunset to 1 hour after sunrise.	Gray square stone tower on fog signal building. 1889
		RADIOBEACON: Transmits on 302 kc, groups of dot, 2 dashes, dot ( • • • • ).  Antenna lead-in at lighthouse.	DISTANCE-FINDING STA- TION. For method of op- eration, see p. 11.
208	110 200 mm a	Flash 2 sec GONG, on buoy.	Red.
209	29,000 3 e	Light 20 sec., eclipse 10 sec., HORN, diaphragm, air; group of 2 blasts every 30 sec.; blast 2 sec., silent 2 sec., blast 2 sec. silent 24 sec.	White tower on dwelling. 1855 1907
210	100 375 mm a	blast 2 sec., silent 24 sec. 447 yards 336° from lighthouse. Flash 1 sec WHISTLE, on buoy.	Red.