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CONVERSION TABLES

FEET TO METERS

Feet	0	1	2	3	4	5	6	7	8	9
0	0.00	0.30	0.61	0.91	1.22	1.52	1.83	2.13	2.44	2.74
10	3.05	3.35	3.66	3.96	4.27	4.57	4.88	5.18	5.49	5.79
20	6.10	6.40	6.71	7.01	7.32	7.62	7.92	8.23	8.53	8.84
30	9.14	9.45	9.75	10.06	10.36	10.67	10.97	11.28	11.58	11.89
40	12.19	12.50	12.80	13.11	13.41	13.72	14.02	14.33	14.63	14.93
50	15.24	15.54	15.85	16.15	16.46	16.76	17.07	17.37	17.68	17.98
60	18.29	18.59	18.90	19.20	19.51	19.81	20.12	20.42	20.73	21.03
70	21.34	21.64	21.95	22.25	22.55	22.86	23.16	23.47	23.77	24.08
80	24.38	24.69	24.99	25.30	25.60	25.91	26.21	26.52	26.82	27.13
90	27.43	27.74	28.04	28.35	28.65	28.96	29.26	29.57	29.87	30.17

FATHOMS TO METERS

Fathoms	0	1	2	3	4	5	6	7	8	9
0	0.00	1.83	3.66	5.49	7.32	9.14	10.97	12.80	14.63	16.46
10	18.29	20.12	21.95	23.77	25.60	27.43	29.26	31.09	32.92	34.75
20	36.58	38.40	40.23	42.06	43.89	45.72	47.55	49.38	51.21	53.03
30	54.86	56.69	58.52	60.35	62.18	64.01	65.84	67.67	69.49	71.32
40	73.15	74.98	76.81	78.64	80.47	82.30	84.12	85.95	87.78	89.61
50	91.44	93.27	95.10	96.93	98.75	100.58	102.41	104.24	106.07	107.90
60	109.73	111.56	113.39	115.21	117.04	118.87	120.70	122.53	124.36	126.19
70	128.02	129.85	131.67	133.50	135.33	137.16	138.99	140.82	142.65	144.47
80	146.30	148.13	149.96	151.79	153.62	155.45	157.28	159.11	160.93	162.76
90	164.59	166.42	168.25	170.08	171.91	173.74	175.56	177.39	179.22	181.05

METERS TO FEET

Meters	0	1	2	3	4	5	6	7	8	9
0	0.00	3.28	6.56	9.84	13.12	16.40	19.68	22.97	26.25	29.53
10	32.81	36.09	39.37	42.65	45.93	49.21	52.49	55.77	59.06	62.34
20	65.62	68.90	72.18	75.46	78.74	82.02	85.30	88.58	91.86	95.14
30	98.42	101.71	104.99	108.27	111.55	114.83	118.11	121.39	124.67	127.95
40	131.23	134.51	137.80	141.08	144.36	147.64	150.92	154.20	157.48	160.76
50	164.04	167.32	170.60	173.88	177.16	180.45	183.73	187.01	190.29	193.57
60	196.85	200.13	203.41	206.69	209.97	213.25	216.54	219.82	223.10	226.38
70	229.66	232.94	236.22	239.50	242.78	246.06	249.34	252.62	255.90	259.19
80	262.47	265.75	269.03	272.31	275.59	278.87	282.15	285.43	288.71	291.99
90	295.28	298.56	301.84	305.12	308.40	311.68	314.96	318.24	321.52	324.80

METERS TO FATHOMS

Meters	0	1	2	3	4	5	6	7	8	9
0	0.00	0.55	1.09	1.64	2.19	2.73	3.28	3.83	4.37	4.92
10	5.47	6.01	6.56	7.11	7.66	8.20	8.75	9.30	9.84	10.39
20	10.94	11.48	12.03	12.58	13.12	13.67	14.22	14.76	15.31	15.86
30	16.40	16.95	17.50	18.04	18.59	19.14	19.68	20.23	20.78	21.33
40	21.87	22.42	22.97	23.51	24.06	24.61	25.15	25.70	26.25	26.79
50	27.34	27.89	28.43	28.98	29.53	30.07	30.62	31.17	31.71	32.26
60	32.81	33.36	33.90	34.45	35.00	35.54	36.09	36.64	37.18	37.73
70	38.28	38.82	39.37	39.92	40.46	41.01	41.56	42.10	42.65	43.20
80	43.74	44.29	44.84	45.38	45.93	46.48	47.03	47.57	48.12	48.67
90	49.21	49.76	50.31	50.85	51.40	51.95	52.49	53.04	53.59	54.13

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# U.S. NAVAL OCEANOGRAPHIC OFFICE SAILING DIRECTIONS

| New No.                                                  | Old No. | Ed.—Date |                                                                                                                                                                                  |
|----------------------------------------------------------|---------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>AREA 1—CANADA, GREENLAND, AND ICELAND</b>             |         |          |                                                                                                                                                                                  |
| 10                                                       | 175     | 6-1960   | <b>British Columbia, Vol. I.</b> Strait of Juan de Fuca and inner passages to Cape Caution.                                                                                      |
| 11                                                       | 176     | 6-1962   | <b>British Columbia, Vol. II.</b> Cape Caution to Alaska.                                                                                                                        |
| 12                                                       | 99      | 9-1952   | <b>Nova Scotia.</b> The Bay of Fundy and Cape Breton Island.                                                                                                                     |
| 13                                                       | 100     | 7-1951   | <b>The Gulf and River St. Lawrence.</b> Western shores of the gulf and the river and seaway to Cornwall Island.                                                                  |
| 14                                                       | 73      | 8-1958   | <b>Newfoundland.</b> Includes Strait of Belle Isle and St. Pierre and Miquelon Islands.                                                                                          |
| 15                                                       | 77      | 2-1951   | <b>Northern Canada.</b> Labrador northward of St. Lewis Sound and Canadian mainland and archipelago, excluding Baffin Bay.                                                       |
| 16                                                       | 76      | 2-1951   | <b>Baffin Bay and Davis Strait.</b> Includes northern Greenland eastward to Cape Morris Jesup.                                                                                   |
| 17                                                       | 75      | 2-1951   | <b>East Greenland and Iceland.</b> Includes the island of Jan Mayen.                                                                                                             |
| <b>AREA 2—LATIN AMERICA AND ANTARCTICA</b>               |         |          |                                                                                                                                                                                  |
| 20                                                       | 130     | 5-1952   | <b>East Coasts of Central America and Mexico.</b> Includes north coast of Colombia.                                                                                              |
| 21                                                       | 128     | 3-1958   | <b>The West Indies, Vol. I.</b> Bermuda, Bahamas, and Greater Antilles.                                                                                                          |
| 22                                                       | 129     | 7-1963   | <b>The West Indies, Vol. II.</b> Lesser Antilles and Venezuela.                                                                                                                  |
| 23                                                       | 172     | 5-1952   | <b>South America, Vol. I.</b> East coast from Venezuelan border to and including Rio de la Plata.                                                                                |
| 24                                                       | 173     | 5-1952   | <b>South America, Vol. II.</b> East and west coasts between Rio de la Plata and Cabo Tres Montes, including Falkland, South Georgia, and South Sandwich Islands.                 |
| 25                                                       | 174     | 6-1960   | <b>South America, Vol. III.</b> West coast between Gulf of Panama and Cabo Tres Montes.                                                                                          |
| 26                                                       | 84      | 9-1951   | <b>West Coasts of Mexico and Central America.</b> The United States border to Colombian border.                                                                                  |
| 27                                                       | 138     | 2-1960   | <b>Antarctica.</b> Includes islands south of latitude 60°.                                                                                                                       |
| <b>AREA 3—BRITISH ISLES AND NORTHWESTERN EUROPE</b>      |         |          |                                                                                                                                                                                  |
| 30                                                       | 146     | 5-1962   | <b>Ireland.</b>                                                                                                                                                                  |
| 31                                                       | 144     | 4-1952   | <b>South Coast of England.</b> Scilly Isles to North Foreland.                                                                                                                   |
| 32                                                       | 145     | 4-1951   | <b>West Coasts of England and Wales.</b> Lands End to Mull of Galloway, including Isle of Man.                                                                                   |
| 33                                                       | 147     | 4-1951   | <b>West Coast of Scotland.</b> Mull of Galloway to Cape Wrath, including the Hebrides.                                                                                           |
| 34                                                       | 149     | 3-1950   | <b>North and East Coasts of Scotland.</b> Cape Wrath to Fife Ness, including Orkney, Shetland, and Faeroe Islands.                                                               |
| 35                                                       | 150     | 5-1951   | <b>East Coast of England.</b> Fife Ness to North Foreland, including the Firth of Forth.                                                                                         |
| 36                                                       | 135     | 5-1959   | <b>Eastern Shores of the North Sea.</b> Dunkerque to Skagen.                                                                                                                     |
| 37                                                       | 132     | 4-1951   | <b>North Coast of France.</b> Northwestern end of France to Belgium.                                                                                                             |
| 38                                                       | 133     | 5-1951   | <b>Bay of Biscay.</b> West coast of France and north coast of Spain.                                                                                                             |
| <b>AREA 4—BALTIC, SCANDINAVIA, AND NORTHERN U.S.S.R.</b> |         |          |                                                                                                                                                                                  |
| 40                                                       | 140     | 1-1955   | <b>Northern and Eastern Shores of the Skagerrak.</b> Lindesnes to Marstrand-fjorden.                                                                                             |
| 41                                                       | 141A    | 1-1956   | <b>Kattegat and The Sound.</b> Skagen to Falsterbo, including Fakse Bugt.                                                                                                        |
| 42                                                       | 141B    | 1-1958   | <b>The Baltic, Vol. I.</b> Store Baelt, Lille Baelt, and coast from Denmark to Kap Arkona.                                                                                       |
| 43                                                       | 142     | 4-1951   | <b>The Baltic, Vol. II.</b> Baltic Sea from Falsterbo Udde and Kap Arkona to the Gulfs of Finland and Bothnia.                                                                   |
| 44                                                       | 143     | 3-1952   | <b>The Baltic, Vol. III.</b> Gulfs of Finland and Bothnia.                                                                                                                       |
| 45                                                       | 139     | 1-1955   | <b>Southwest Coast of Norway.</b> Lindesnes to Fedje.                                                                                                                            |
| 46                                                       | 136     | 4-1952   | <b>Northwest and North Coasts of Norway.</b> Fedjeosen to Nyemyetski Point, U.S.S.R., including Svalbard Archipelago.                                                            |
| 47                                                       | 137A    | 1-1953   | <b>Northern U.S.S.R., Vol. I.</b> Mys Nemetskiy to Mys Kanin Nos.                                                                                                                |
| 48                                                       | 137B    | 1-1954   | <b>Northern U.S.S.R., Vol. II.</b> Mys Kanin Nos to Ostrov Dikson.                                                                                                               |
| 49                                                       | 137C    | 1-1954   | <b>Northern U.S.S.R., Vol. III.</b> Ostrov Dikson to Mys Shmidt.                                                                                                                 |
| <b>AREA 5—MEDITERRANEAN AND WESTERN AFRICA</b>           |         |          |                                                                                                                                                                                  |
| 50                                                       | 105     | 4-1951   | <b>Southwest Coast of Africa.</b> Cape Palmas to Cape of Good Hope.                                                                                                              |
| 51                                                       | 134     | 6-1952   | <b>West Coasts of Spain, Portugal, and Northwest Africa and Off-lying Islands.</b> Includes Azores, Madeira, Canary and Cape Verde Islands, and Africa southward to Cape Palmas. |

(Revised 6/15/64)

CHANGE 307  
9  
H. O. 26

New Old  
No. No. Ed.—Date

- 52 151 4-1952 **The Mediterranean, Vol. I.** Strait of Gibraltar, Spain, Balearic Islands, northern Africa to Ras Agedir.  
53 152 5-1958 **The Mediterranean, Vol. II.** France, west coast of Italy, Corsica, Sardinia, and Sicily, including adjacent islands.  
54 153 3-1951 **The Mediterranean, Vol. III.** Southeast Italy, the Adriatic, and western Greece to Akra Tainaron.  
55 154A 3-1963 **The Mediterranean, Vol. IV.** Libya, Egypt, Israel, Lebanon, Syria, and southern Turkey, including islands of Cyprus, Rodhos, Karpathos, and Crete.  
56 154B 2-1952 **The Mediterranean, Vol. V.** The Aegean Sea.

#### AREA 6—MIDDLE EAST, EASTERN AFRICA, AND SOUTHERN ASIA

- 60 156 4-1951 **Southeast Coast of Africa.** Cape of Good Hope to Ras Hafun.  
61 157 4-1952 **Red Sea and Gulf of Aden.** Includes Suez Canal, Gulf of Suez, Africa north of Ras Hafun, Socotra, and Arabian coast eastward to Ras al Hadd.  
62 158 5-1960 **The Persian Gulf.** Includes Gulf of Oman and northern shore of Arabian Sea eastward to Ras Muari.  
63 159 4-1951 **West Coast of India.** Includes Ceylon and Maldive and Laccadive Islands.  
64 160 4-1951 **Bay of Bengal.** Calimere Point to Salang Island, including Andaman and Nicobar Islands.  
65 161 4-1952 **South Indian Ocean.** Madagascar and islands westward of longitude 90°.

#### AREA 7—AUSTRALIA AND SOUTHWEST PACIFIC

- 70 162 4-1951 **Malacca Strait and Sumatra.** Central and western Sumatra and southwestern Malay Peninsula.  
71 126 5-1951 **Soenda Strait and Western and Northeast Coasts of Borneo and Off-lying Islands.**  
72 163 5-1962 **Java; Lesser Sundas; South, Southeast, and East Coasts of Borneo; and Celebes.** Excludes western end of Java between Tandjung Tjankuang and Udjung Krawang.  
73 164 4-1952 **New Guinea.** Includes Halmahera and islands southward.  
74 170 3-1952 **North and West Coasts of Australia.** Cape York to Cape Leeuwin.  
75 169 4-1954 **East Coast of Australia.** Sydney to Cape York, including islands in the Coral Sea.  
76 168 3-1952 **Southeast Coast of Australia.** Cape Northumberland to Port Jackson, including Tasmania.  
77 167 3-1950 **South Coast of Australia.** Cape Leeuwin to Cape Northumberland.  
78 171 3-1952 **New Zealand.** Includes Kermadec Islands and islands eastward and southward of New Zealand.

#### AREA 8—NORTH AND SOUTH PACIFIC

- 80 166 6-1952 **The Pacific Islands, Vol. III.** The south-central groups.  
81 165B 1-1952 **The Pacific Islands, Vol. II.** Santa Cruz and New Hebrides groups, New Caledonia, and adjacent islands.  
82 165A 2-1964 **The Pacific Islands, Vol. I.** Western groups, including the Solomon Islands.

#### AREA 9—FAR EAST, PHILIPPINE ISLANDS, AND EASTERN U.S.S.R.

- 90 78 1-1955 **Philippine Islands, Vol. I.** Northern islands, including western Negros and northern Samar.  
91 79 1-1956 **Philippine Islands, Vol. II.** Central islands, including eastern Negros, southern Samar, and northern Mindanao.  
92 80 1-1956 **Philippine Islands, Vol. III.** Southern Mindanao, Sulu Archipelago, and Palawan.  
93 125 5-1957 **Western Shores of South China Sea.** Singapore Strait to Hong Kóng.  
94 124 6-1959 **Coast of China.** Coast northward of Hong Kong to Yalu Chiang, and island of Taiwan.  
95 123B 2-1951 **Japan, Vol. II (Southern Part).** The Naikai and islands southward, including Nansei Shoto, and Tsushima.  
96 123A 2-1951 **Japan, Vol. I (Northern Part).** Honshu, except the Naikai, Hokkaido, Chishima Retto, and Nanpo Shoto.  
97 122B 2-1951 **Southeast Coast of Siberia and Korea.** Sakhalinskiy Zaliv to Yalu Chiang, including Sakhalin.  
98 122A 2-1951 **East Coast of Siberia.** Mys Otto Shmidta to Sakhalinskiy Zaliv, including Ostrov Vrangelya.

24. A black can buoy (No. 47) will be substituted for lighted buoy No. 47 (9°09.8' N., 79°49.0' W. approx.).

25. A black can buoy (No. 45) will be substituted for black spar buoy No. 45 (9°10.2' N., 79°49.5' W. approx.).

26. Rear range light No. 10 (9°11.7' N., 79°51.3' W. approx.) will be amended to show *occulting green*.

27. A lighted buoy (No. 28), painted red and showing *fixed red*, will be substituted for red nun buoy No. 28 (9°11.2' N., 79°53.0' W. approx.).

28. Light No. 20, showing *fixed red*, will be charted about 0.28 mile 007°30' from light No. 22 (9°17.2' N., 79°55.5' W. approx.).

**Note.**—Lighted buoy No. 20 close south-southeastward will be expunged. (N.M. 31/66.)

(RS 10637/66.)

H.O. Charts 5006(1-7), 5000(1-3a, 4a, 6-8, 10-28) and (Plan B 6-10)).

H.O. Pub. 111B, No. 190.

H.O. Pub. 20, 1952, page 100.

H.O. Pub. 26, 1951, page 250, 252, 253.

★ (669) PANAMA CANAL—Gatun Lake—Bohio Reach—Buoy changed.—Buoy No. 37 (9°11.2' N., 79°51.5' W. approx.) has been replaced by *Lighted Buoy No. 37*, painted black and showing a *fixed white* light. (N.M. 5/66.)

(Panama Canal Notice, Oct. 25, 1965.)

H.O. Chart 5000.

H.O. Pub. 20, 1952, page 100.

H.O. Pub. 26, 1951, page 252.

★ (4667) CENTRAL AMERICA—El Salvador—La Union—Depth information.—A depth of 15 feet (Rep. 1966) will be charted in 13°18'52" N., 87°46'52" W. (N.M. 23/66.)

(Third Officer, M.S. *Rheinstein*; NAVOCEANOREP CZ:RS 10211/66.)

H.O. Chart 5575.

H.O. Pub. 26, 1951, page 186.

6. Light No. 24 (8°56.9' N., 79°34.2' W. approx.) will be amended to show *fixed red*.

7. Light No. 21 (8°57.4' N., 79°34.5' W. approx.) will be amended to show *quick flashing white*.

8. Lighted buoy No. 26 (8°57.7' N., 79°34.5' W. approx.) will be amended to show *fixed red*.

9. A mooring buoy will be charted in each of the following positions; distances and bearings from the light (F.G.) (8°57.6' N., 79°33.9' W. approx.):

- |                              |                           |
|------------------------------|---------------------------|
| (a) About 0.59 mile 279°30'. | (d) About 0.37 mile 287°. |
| (b) About 0.55 mile 281°30'. | (e) About 0.35 mile 286°. |
| (c) About 0.52 mile 282°30'. |                           |

10. The following lighted buoys will be charted as indicated; distances and bearings from the light in (7):

(a) Buoy No. 21A, painted black and showing *fixed white*, about 0.38 mile 341°30'.

(b) Buoy No. 26A, painted red and showing *fixed red*, about 0.42 mile 354°.

11. The bearing 297°12' charted against the range line in approximately 9°01.6' N., 79°37.6' W. will be amended to read 295°33'.

12. A lighted buoy painted black will be charted in approximately 9°02.9' N., 79°39.1' W.

13. Front range light No. 35 (9°04.2' N., 79°40.5' W. approx.) will be re-charted on shore about 0.08 mile 337° from its charted position.

14. Rear range light No. 36 will be recharted about 0.04 mile 318°21' from the front light in (13).

15. A range line will be charted extending from the front light in (13) in a 138°21' direction to meet the 303°09' range line.

**Notes.**—(a) The bearing 318°21' will be charted against the range line.

(b) The 310°46' range line will be expunged.

16. A *fixed white* light will be charted in each of the following positions; distances and bearings from light No. 91 (9°07.1' N., 79°43.1' W. approx.):

- |                                                                  |
|------------------------------------------------------------------|
| (a) On the north corner of the bulkhead about 0.48 mile 092°40'. |
| (b) On the south corner of the bulkhead about 0.48 mile 098°.    |

17. A mooring buoy will be charted in each of the following positions; distances and bearings from light No. 91 in (16):

- |                           |                           |
|---------------------------|---------------------------|
| (a) About 0.14 mile 083°. | (c) About 0.22 mile 085°. |
| (b) About 0.18 mile 084°. |                           |

18. A dashed line will be charted extending from a point about 0.06 mile 298° from light No. 91 in (16) in a 182°30' direction for 0.12 mile. The legend *Cable crossing* will be charted against the line.

19. The bearing 301°20' charted against the range line in (approx.) 9°07.8' N., 79°43.7' W. will be amended to read 301°02'.

20. The range line passing through range lights No. 16 and 17 (9°05.9' N., 79°48.3' W. approx.) will be recharted in a 349°41' direction from rear light No. 17 for 3.9 miles. The bearing 168°41' (9°06.6' N., 79°48.4' W. approx.) will be amended to read 169°41'.

21. A red nun buoy (No. 56) will be substituted for lighted buoy No. 56 (9°08.0' N., 79°48.8' W. approx.).

22. Front range light No. 12 (9°08.9' N., 79°48.2' W. approx.) will be amended to show *flashing green*.

23. Rear range light No. 13 (9°08.6' N., 79°47.7' W. approx.) will be amended to show *occulting green*.

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