MANILA SOUTH HARBOR

LAT 14° 35'N LONG 120° 58'E

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

May	y	Ju	ne	July	August
Time Ht. h. min. m.	Time Ht. h. min. m.	Time Ht. h. min. m.	Time Ht.	Time Ht. Time Ht. h. min. m. h. min. m.	Time Ht. Time Ht. h. min. m. h. min. m.
1 02 04 0.01 MON 10 24 0.51 11 52 0.51 18 29 0.77	16 01 50 0.11 TUE 08 36 0.67 13 44 0.41 19 39 0.75	1 01 05 0.31 THU 08 12 0.86 15 12 0.24 21 06 0.52	16 00 12 0.45 FRI 08 21 1.15 16 34 0.05	1 07 32 1.20 SAT 16 13 0.01 16 08 27 1.30 SUN 17 37 -0.04	
2 02 28 0.08 TUE 09 25 0.57 14 00 0.42 19 50 0.71	17 02 11 0.22 WED 08 46 0.80 15 00 0.25 21 10 0.64	2 01 07 0.37 FRI 08 28 1.00 16 06 0.06 22 24 0.47	17 08 52 1.23 SAT 17 27 -0.06	2 08 09 1.34 17 05 -0.13 NON 18 12 -0.06	2 09 37 1.58 17 10 21 1.30 21 1.30 21 1.30 21 1.30
3 02 45 0.15 WED 09 22 0.65 15 05 0.29 21 08 0.66	18 02 22 0.32 THU 09 04 0.94 16 03 0.10 22 23 0.55	3 01 06 0.41 8AT 08 51 1.14 16 57 -0.09 23 48 0.42	18 09 25 1.29 sun 18 13 -0.12	3 08 53 1.45 MON 17 54 -0.22 TUE 18 45 -0.04	3 10 36 1.57 THU 19 07 -0.08
4 02 57 0.23 THU 09 30 0.76 15 58 0.14 22 12 0.60	19 02 21 0.39 FRI 09 27 1.06 17 02 -0.04 23 34 0.45	4 00 51 0.42 SUN 09 20 1.27 17 48 -0.21	19 10 01 1.32 MON 18 56 -0.14	4 09 41 1.53 19 10 30 1.36 WED 19 18 0.00	4 11 35 1.51 FRI 19 44 0.04 11 42 1.19 19 12 0.26
5 03 01 0.31 FRI 09 43 0.89 16 49 0.00 23 11 0.53	20 02 03 0.41 SAT 09 54 1.15 17 57 -0.13	5 09 56 1.37 MON 18 41 -0.29	20 10 39 1.33 TUE 19 37 -0.12	5 10 33 1.56 WED 19 33 -0.23 THU 19 48 0.06	5 01 54 0.52 20 00 59 0.60 sun 04 40 0.47 12 30 1.38 20 15 0.18 20 00 59 0.60 19 24 0.33
6 03 00 0.36 SAT 10 01 1.01 17 39 -0.13	21 10 23 1.21 SUN 18 49 -0.19	6 10 38 1.43 TUE 19 36 -0.31	21 11 21 1.31 WED 20 18 -0.08	6 11 30 1.54 THU 20 21 -0.15	6 02 11 0.63 SUN 05 42 0.51 13 22 1.20 20 39 0.31 21 01 18 0.68 MON 05 51 0.47 12 56 0.96 19 31 0.39
7 00 11 0.45 SUN 02 54 0.38 10 25 1.13 18 31 -0.22	22 10 56 1.24 MON 19 40 -0.21	7 11 25 1.45 WED 20 33 -0.28	22 12 04 1.28 THU 20 57 -0.03	7 12 29 1.47 FRI 21 05 -0.04 22 12 34 1.22 SAT 20 39 0.19	7 02 36 0.76 MON 07 38 0.52 14 12 0.97 20 54 0.43 19 30 0.43
8 01 33 0.37 MON 02 33 0.36 10 56 1.22 19 26 -0.28	23 11 33 1.23 TUE 20 30 -0.19	8 12 20 1.42 THU 21 30 -0.22	23 12 48 1.22 FRI 21 33 0.03	8 13 26 1.35 SAT 21 42 0.08 20 03 01 0.54 SUN 04 39 0.53 13 11 1.12 20 57 0.26	8 03 06 0.88 TUE 09 35 0.49
9 11 33 1.27 TUE 20 25 -0.30	24 12 13 1.20 WED 21 21 -0.15	9 13 20 1.34 FRI 22 23 -0.13	24 13 31 1.15 SAT 22 05 0.10	9 04 39 0.57 22 13 0.22 24 03 16 0.62 MON 06 01 0.58 13 48 0.99 21 09 0.33	9 03 45 1.00 WED 11 38 0.41 17 10 0.52 19 47 0.51 24 02 30 0.97 THU 10 27 0.36 → 15 48 0.48 → 18 54 0.45
10 12 16 1.28 WED 21 32 -0.28	25 12 58 1.15 THU 22 12 -0.10	10 14 22 1.23 SAT 23 09 -0.02	25 14 13 1.05 sun 22 30 0.17	10 04 46 0.69 MON 08 42 0.62 € TUE 08 12 0.61 € 15 14 0.96 € 22 34 0.34 25 03 38 0.72 € TUE 08 12 0.61 € 14 27 0.84 € 21 15 0.39	10 04 30 1.08 THU 14 03 0.28
11 13 09 1.25 THU 22 43 -0.24	26 13 47 1.09 FRI 23 00 -0.04	11 15 24 1.08 sun 23 45 0.10	26 14 56 0.93 MON 22 50 0.24	11 05 14 0.83 TUE 11 15 0.56 16 18 0.74 22 42 0.43 26 04 03 0.82 WED 10 36 0.56 3 15 18 0.67 21 13 0.43	11 05 26 1.15 FRI 15 30 0.15 26 04 00 1.15 SAT 14 15 0.11
12 14 13 1.19 FRI 23 49 -0.18	27 14 39 1.01 SAT 23 41 0.02	12 07 18 0.64 MON 10 12 0.62 16 29 0.90	27 06 18 0.68 TUE 10 27 0.64 15 46 0.78 23 03 0.31	12 05 48 0.96 WED 13 15 0.43 THU 12 38 0.43 18 39 0.54 22 25 0.49 20 57 0.46	12 06 23 1.20 SAT 16 14 0.05 27 05 09 1.24 SUN 15 14 -0.02
13 15 27 1.10	28 15 31 0.92	13 00 11 0.22 TUE 07 09 0.77 12 43 0.51 17 55 0.72	28 06 20 0.79 WED 12 48 0.53 17 03 0.63 23 09 0.38	13 06 27 1.08 THU 15 01 0.27 28 05 09 1.06 FRI 14 18 0.26	13 07 17 1.24 8UN 16 48 0.00 MON 15 59 -0.11
14 00 42 -0.10 SUN 16 42 0.99	29 00 13 0.08 MON 16 29 0.82	14 00 27 0.33 WED 07 28 0.90 14 15 0.36 20 00 0.57	29 06 36 0.91 THU 14 12 0.36 19 34 0.50 23 08 0.43	14 07 06 1.18 FRI 16 13 0.13 29 05 55 1.19 SAT 15 25 0.09	14 08 06 1.27 MON 17 18 -0.01
15 01 21 0.00 MON 08 56 0.57 11 39 0.54 18 03 0.87	30 00 38 0.15 TUE 08 16 0.65 12 49 0.55 17 39 0.70	15 00 30 0.41 THU 07 53 1.03 15 30 0.20 21 48 0.48	30 07 00 1.05 FRI 15 18 0.18 21 49 0.45 22 48 0.45	15 07 47 1.25 30 06 48 1.32 SUN 16 16 -0.05	15 08 53 1.30 WED 17 15 -0.11
	31 00 55 0.23 WED 08 06 0.74 14 12 0.41 19 24 0.60			31 07 43 1.44 MON 17 02 -0.15	31 09 37 1.46 THU 17 49 -0.02 23 58 0.50

TIME MERIDIAN 120 DEG. EAST. 0000 IS MIDNIGHT, 1200 IS NOON

HEIGHTS ARE IN METERS AND RECKONED FROM THE DATUM OF SOUNDINGS ON CHARTS OF THE LOCALITY WHICH IS MEAN LOWER LOW WATER