

MANILA SOUTH HARBOR

LAT 14° 35'N LONG 120° 58'E

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

January				February				March				April			
Time	Ht.	Time	Ht.	Time	Ht.	Time	Ht.	Time	Ht.	Time	Ht.	Time	Ht.	Time	Ht.
h. min.	m.	h. min.	m.	h. min.	m.	h. min.	m.	h. min.	m.	h. min.	m.	h. min.	m.	h. min.	m.
1 SUN	00 14 0.37 04 51 0.49 11 21 0.23 18 39 0.73	16 MON	03 30 0.46 09 46 0.20 17 12 0.70	1 WED	03 59 -0.06 18 56 0.94	16 THU	02 45 -0.11 17 43 1.05	1 WED	02 32 -0.03 16 43 0.88	16 THU	00 43 -0.11 15 43 1.03	1 SAT	02 53 -0.11 18 11 0.86	16 SUN	02 21 -0.18 18 19 1.00
2 MON	02 07 0.21 07 47 0.33 11 09 0.28 19 10 0.85	17 TUE	01 15 0.21 06 11 0.29 09 37 0.25 17 49 0.84	2 THU	04 34 -0.16 19 43 0.99	17 FRI	03 40 -0.25 18 56 1.15	2 THU	03 26 -0.11 17 57 0.90	17 FRI	02 15 -0.20 17 11 1.06	2 SUN	03 23 -0.09 19 19 0.85	17 MON	02 58 -0.11 10 05 0.47 12 29 0.44 19 44 0.95
3 TUE	03 30 0.04 19 42 0.95	18 WED	02 42 0.02 18 34 0.99	3 FRI	05 03 -0.22 20 27 1.04	18 SAT	04 24 -0.34 20 03 1.23	3 FRI	03 59 -0.16 19 03 0.92	18 SAT	03 10 -0.26 18 36 1.10	3 MON	03 48 -0.05 11 00 0.41 12 53 0.39 20 24 0.85	18 TUE	03 27 -0.01 09 49 0.55 14 21 0.32 21 04 0.88
4 WED	04 25 -0.10 20 14 1.02	19 THU	03 42 -0.17 19 24 1.13	4 SAT	05 30 -0.24 21 11 1.08	19 SUN	05 05 -0.37 21 06 1.28	4 SAT	04 27 -0.18 20 00 0.96	19 SUN	03 51 -0.26 19 54 1.12	4 TUE	04 09 0.00 10 31 0.45 14 30 0.32 21 24 0.83	19 WED	03 51 0.11 09 57 0.67 15 35 0.18 22 12 0.79
5 THU	05 06 -0.21 20 48 1.08	20 FRI	04 32 -0.33 20 15 1.26	5 SUN	05 57 -0.23 21 53 1.10	20 MON	05 42 -0.33 22 08 1.29	5 SUN	04 51 -0.16 20 53 0.98	20 MON	04 27 -0.22 11 17 0.35 12 56 0.34 21 06 1.12	5 WED	04 27 0.08 10 32 0.53 15 34 0.23 22 18 0.79	20 THU	04 08 0.23 10 14 0.80 16 39 0.05 23 11 0.67
6 FRI	05 41 -0.27 21 22 1.12	21 SAT	05 18 -0.43 21 09 1.35	6 MON	06 23 -0.20 22 34 1.10	21 TUE	06 17 -0.24 12 28 0.29 14 54 0.23 23 06 1.23	6 MON	05 15 -0.13 12 10 0.30 13 00 0.30 21 42 0.99	21 TUE	04 57 -0.13 11 03 0.41 14 41 0.26 22 10 1.07	6 THU	04 39 0.16 10 41 0.63 16 30 0.13 23 06 0.72	21 FRI	04 15 0.32 10 34 0.92 17 38 -0.06
7 SAT	06 14 -0.30 21 59 1.14	22 SUN	06 03 -0.46 22 03 1.39	7 TUE	06 48 -0.15 13 13 0.24 14 33 0.23 23 15 1.08	22 WED	06 48 -0.12 12 38 0.36 16 14 0.20 23 59 1.12	7 TUE	05 36 -0.07 11 42 0.33 14 36 0.27 22 27 0.98	22 WED	05 24 -0.01 11 12 0.51 16 00 0.16 23 07 0.97	7 FRI	04 47 0.24 10 54 0.73 17 24 0.03 23 54 0.63	22 SAT	00 08 0.54 04 06 0.38 10 58 1.02 18 36 -0.14
8 SUN	06 46 -0.29 22 37 1.14	23 MON	06 48 -0.42 22 59 1.37	8 WED	07 11 -0.08 13 12 0.29 15 42 0.24 23 52 1.02	23 THU	07 15 0.02 12 55 0.47 17 33 0.18	8 WED	05 54 0.00 11 45 0.39 15 41 0.23 23 09 0.93	23 THU	05 45 0.12 11 28 0.63 17 11 0.08	8 SAT	04 48 0.30 11 11 0.85 18 18 -0.06	23 SUN	01 15 0.41 03 36 0.38 11 26 1.08 19 34 -0.18
9 MON	07 18 -0.25 23 16 1.12	24 TUE	07 30 -0.34 23 55 1.29	9 THU	07 31 -0.01 13 27 0.35 16 42 0.26	24 FRI	00 48 0.94 07 36 0.15 13 17 0.59 18 57 0.17	9 THU	06 10 0.07 11 57 0.48 16 42 0.19 23 51 0.85	24 FRI	00 00 0.83 05 59 0.24 11 48 0.75 18 18 0.02	9 SUN	00 45 0.52 04 43 0.33 11 32 0.95 19 14 -0.13	24 MON	11 57 1.11 20 34 -0.18
10 TUE	07 51 -0.20 23 56 1.08	25 WED	08 08 -0.21 14 29 0.28 16 16 0.26	10 FRI	00 29 0.93 07 47 0.06 13 45 0.44 17 48 0.27	25 SAT	01 34 0.73 07 44 0.25 13 43 0.70 20 24 0.16	10 FRI	06 21 0.15 12 12 0.57 17 45 0.15	25 SAT	00 51 0.65 06 00 0.32 12 12 0.86 19 24 -0.03	10 MON	01 45 0.40 04 33 0.33 11 59 1.04 20 13 -0.17	25 TUE	12 33 1.10 21 38 -0.17
11 WED	08 21 -0.14	26 THU	00 48 1.15 08 42 -0.07 14 46 0.37 17 42 0.30	11 SAT	01 05 0.81 07 58 0.13 14 05 0.53 19 13 0.28	26 SUN	02 23 0.51 07 30 0.31 14 14 0.79 22 00 0.14	11 SAT	00 31 0.74 06 27 0.22 12 29 0.67 18 49 0.10	26 SUN	01 45 0.47 05 38 0.35 12 40 0.93 20 33 -0.05	11 TUE	12 33 1.10 21 21 -0.19	26 WED	13 14 1.06 22 48 -0.14
12 THU	00 33 1.02 08 49 -0.08	27 FRI	01 37 0.96 09 09 0.07 15 12 0.49 19 39 0.34	12 SUN	01 43 0.65 08 01 0.19 14 27 0.63 20 55 0.25	27 MON	03 38 0.31 06 11 0.29 14 51 0.84	12 SUN	01 14 0.60 06 26 0.26 12 48 0.77 19 57 0.06	27 MON	03 23 0.31 04 14 0.31 13 12 0.96 21 51 -0.06	12 WED	13 15 1.12 22 45 -0.20	27 THU	14 03 1.00 23 57 -0.11
13 FRI	01 11 0.92 09 13 -0.01 16 00 0.38 17 36 0.37	28 SAT	02 23 0.74 09 25 0.18 15 44 0.60 21 59 0.33	13 MON	02 28 0.48 07 56 0.23 14 56 0.74 22 47 0.18	28 TUE	00 13 0.08 15 38 0.87	13 MON	02 05 0.45 06 16 0.28 13 15 0.87 21 10 0.01	28 TUE	13 48 0.96 23 30 -0.07	13 THU	14 10 1.11	28 FRI	15 03 0.94
14 SAT	01 48 0.80 09 31 0.07 16 19 0.47 19 47 0.42	29 SUN	03 12 0.51 09 22 0.26 16 24 0.71	14 TUE	03 51 0.30 07 32 0.25 15 35 0.85	29 WED	03 26 0.30 05 50 0.27 13 49 0.94 22 41 -0.04	14 TUE	03 26 0.30 05 50 0.27 13 49 0.94 22 41 -0.04	29 WED	14 36 0.93	14 FRI	00 19 -0.21 15 26 1.08	29 SAT	00 52 -0.08 16 09 0.88
15 SUN	02 30 0.64 09 42 0.14 16 43 0.58 23 05 0.37	30 MON	00 24 0.24 05 18 0.29 08 11 0.28 17 12 0.80	15 WED	01 02 0.06 16 31 0.95	30 THU	01 11 -0.09 15 39 0.90	15 WED	14 36 1.00	30 THU	01 11 -0.09 15 39 0.90	15 SAT	01 32 -0.21 16 54 1.04	30 SUN	01 33 -0.04 17 18 0.83
		31 TUE	03 00 0.09 18 05 0.88			31 FRI	02 13 -0.11 16 57 0.87			31 FRI	02 13 -0.11 16 57 0.87				

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