

MANILA NORTH HARBOR

LAT 14° 36'N LONG 120° 57'E

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

January			February			March			April		
Time	Ht.		Time	Ht.		Time	Ht.		Time	Ht.	
h. min.	m.		h. min.	m.		h. min.	m.		h. min.	m.	
1 SUN	04 15 0.45 11 07 0.17 18 51 0.67		16 MON	00 07 0.28 03 46 0.32 09 04 0.14 17 45 0.62		1 WED	01 38 -0.08 16 48 0.70		1 SAT	03 35 -0.20 18 32 0.71	
2 MON	02 30 0.21 07 59 0.30 11 00 0.24 19 15 0.77		17 TUE	02 26 0.12 06 49 0.18 08 29 0.18 18 20 0.77		2 THU	03 15 -0.15 18 03 0.71		2 SUN	04 15 -0.22 19 51 0.71	
3 TUE	03 51 0.04 19 44 0.85		18 WED	03 22 -0.06 19 03 0.92		3 FRI	04 15 -0.22 19 24 0.75		3 MON	04 39 -0.20 11 32 0.26 13 01 0.25 20 50 0.71	
4 WED	04 39 -0.10 20 18 0.92		19 THU	04 06 -0.21 19 49 1.07		4 SAT	04 57 -0.27 20 30 0.80		4 TUE	04 55 -0.16 10 59 0.30 14 37 0.20 21 38 0.69	
5 THU	05 19 -0.20 20 57 0.97		20 FRI	04 50 -0.32 20 39 1.19		5 SUN	05 30 -0.30 21 19 0.85		5 WED	05 02 -0.09 11 32 0.26 15 47 0.13 22 23 0.63	
6 FRI	05 59 -0.26 21 38 1.02		21 SAT	05 36 -0.38 21 30 1.27		6 MON	05 55 -0.29 12 17 0.13 13 17 0.12 21 59 0.86		6 THU	05 01 0.00 11 00 0.49 16 50 0.05 23 10 0.55	
7 SAT	06 39 -0.30 22 20 1.05 ○		22 SUN	06 23 -0.40 22 20 1.29 ●		7 TUE	06 15 -0.26 11 55 0.16 14 35 0.10 22 36 0.83		7 FRI	04 52 0.10 11 12 0.60 17 50 -0.04	
8 SUN	07 22 -0.31 23 02 1.07		23 MON	07 10 -0.38 23 10 1.26		8 WED	06 30 -0.19 12 00 0.22 15 37 0.09 23 15 0.76		8 SAT	00 03 0.46 04 39 0.18 11 25 0.70 18 48 -0.12	
9 MON	08 05 -0.32 23 42 1.06		24 TUE	07 55 -0.32 23 59 1.16		9 THU	06 38 -0.11 12 15 0.30 16 44 0.08 23 56 0.65		9 SUN	01 06 0.36 04 32 0.23 11 41 0.80 19 49 -0.18	
10 TUE	08 45 -0.30		25 WED	08 33 -0.24		10 FRI	06 36 -0.01 12 33 0.40 18 02 0.05		10 MON	02 28 0.28 04 24 0.25 12 03 0.89 20 55 -0.22	
11 WED	00 21 1.01 09 18 -0.27		26 THU	00 46 1.00 09 02 -0.14 15 31 0.27 18 12 0.24		11 SAT	00 42 0.53 06 21 0.09 12 51 0.50 19 23 0.01		11 TUE	12 41 0.95 22 15 -0.23	
12 THU	00 57 0.93 09 44 -0.21		27 FRI	01 31 0.82 09 21 -0.04 15 45 0.39 20 12 0.24		12 SUN	01 37 0.40 06 06 0.16 13 07 0.60 20 40 -0.04		12 WED	13 36 1.00 23 48 -0.24	
13 FRI	01 30 0.81 09 57 -0.12		28 SAT	02 17 0.61 09 30 0.06 16 04 0.50 21 49 0.20 ☾		13 MON	02 48 0.27 05 59 0.19 13 30 0.70 22 03 -0.09		13 THU	14 46 1.02 ☾	
14 SAT	02 03 0.66 09 55 -0.02 17 09 0.35 19 15 0.34		29 SUN	03 07 0.41 09 33 0.14 16 32 0.60 23 41 0.14		14 TUE	04 53 0.18 05 20 0.18 14 09 0.80 23 51 -0.13		14 FRI	01 07 -0.25 16 02 1.01	
15 SUN	02 40 0.50 09 30 0.08 17 20 0.48 ☾		30 MON	04 36 0.23 05 41 0.23 06 12 0.23 09 27 0.19 17 09 0.67		15 WED	15 11 0.87 ☾		15 SAT	02 08 -0.24 17 21 0.98	
			31 TUE	02 17 0.03 17 57 0.72					31 FRI	02 34 -0.16 17 12 0.71	

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