MANILA NORTH HARBOR

LAT 14° 36'N LONG 120° 57'E

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

September		October	November	December
Time Ht. Time h. min. m. h. min.	Ht. Time m. h. min.	Ht. Time Ht. m. h. min. m.	Time Ht. Time Ht.	Time Ht. Time Ht.
1 02 45 0.42 FRI 10 45 1.33 18 34 0.15 18 09 23 45	0.37 1 05 20 0.98 SUN 11 43 0.24 17 30	16 05 48 0.14 .85 MON 11 51 0.62 .46 16 00 0.41 .99 23 00 0.97	1 07 41 -0.07 HU 23 17 1.25	1 08 41 -0.19 16 08 47 -0.34 SAT
2 00 05 0.59 SAT 04 09 0.41 11 34 1.18 18 56 0.27 17 04 57 SUN 11 44 18 02	0.33	19 17 06 41 0.06 69 TUE 12 52 0.53 15 53 0.44 23 16 1.05	2 THU 08 36 -0.08 17 08 48 -0.21	2 00 19 1.13 17 00 07 1.30 SUN 09 45 -0.31
3 00 24 0.71 80 00 01 12 27 0.99 12 31 17 40	0.74 0.29 0.75 0.41 3 07 35 TUE 14 25 17 03	.12 18 07 36 0.01 WED 14 12 0.45 15 43 0.44 23 39 1.12	3 00 30 1.15 18 00 03 1.27 SAT 10 03 -0.21	3 01 08 1.09 18 01 00 1.23 18 01 00 1.23 19 19 19 19 19 19 19 19 19 19 19 19 19
4 00 47 0.83 19 00 19 10 07 12 0.34 13 24 0.81 13 27 17 24	0.83 0.24 0.63 0.45 4 00 16 WED 08 36	.11 19 08 39 -0.02 THU	4 01 23 1.10 19 01 01 1.27 SUN 11 11 -0.20	4 01 53 1.02 19 01 51 1.11 TUE 11 08 -0.15
5 01 16 0.93 WED 08 31 14 37 17 16	0.92 0.20 0.52 0.47 5 00 57 THU 09 38	.11 20 00 13 1.17 FRI 09 57 -0.04	5 02 17 1.05 20 02 01 1.23 MON 12 06 -0.16	5 02 33 0.92 20 02 42 0.94 WED 11 32 -0.02
6 01 51 1.00 21 00 58 тни 09 47 18 14 0.54 18 58 0.54	1.00 6 01 47 0.16 FRI 10 57	.09 21 01 04 1.21 SAT 11 27 -0.05	6 03 09 0.99 21 03 02 1.14 TUE 12 48 -0.08	6 03 12 0.78 HD 12 24 -0.01 THU 11 42 0.12 18 51 0.63
7 02 34 1.04 THU 11 06 0.22 FRI 11 27	1.08 7 02 43 SAT 12 37	.06 22 02 12 1.22 sun 12 43 -0.07	7 04 00 0.91	7 03 52 0.62 22 00 24 0.39 11 32 0.54 0.52 FRI 05 23 0.49 11 32 0.23 19 08 0.77
8 03 25 1.05 23 02 34 SAT 13 06	1.14 8 03 45 0.07 SUN 14 04	.02 23 03 24 1.22 MON 13 41 -0.06	8 04 57 0.81 WED 14 35 0.06 22 22 0.54 23 05 32 0.82 THU 13 46 0.15 20 17 0.69	8 01 39 0.42 FRI 05 02 0.45 12 37 0.17 20 22 0.62 23 02 49 0.20 SAT 08 19 0.36 11 17 0.30 19 33 0.91
9 04 27 1.04 24 03 51 SUN 14 16	1.19 9 04 51 MON 15 06	.99 24 04 39 1.18 TUE 14 24 -0.03	9 00 11 0.53 THU 06 16 0.70 14 54 0.13 21 46 0.59	9 03 32 0.25 SAT 07 45 0.33 12 28 0.24 20 19 0.75 24 03 58 0.02 SUN 20 03 1.01
10 05 39 1.04 25 05 11 sun 15 48 0.09 Mon 15 08	1.24 10 06 06 -0.02 TUE 15 48	.96 25 06 03 1.11 WED 14 58 0.05 21 39 0.59 23 39 0.57	10 02 37 0.43 FRI 08 00 0.61 14 56 0.20 21 30 0.69 25 03 30 0.25 SAT 09 15 0.54 13 52 0.37 20 45 0.99	10 04 14 0.09 sun 09 55 0.31 21 18 0.28 20 33 0.88 20 33 0.88
11 07 00 1.06 MON 16 36 0.05 TUE 15 48	1.27 11 07 28 WED 16 15 22 56	.93 .07 .52 26 07 33 1.01 THU 15 24 0.15 21 26 0.70	11 03 51 0.29 SAT 09 18 0.55 14 45 0.28 21 30 0.81 26 04 33 0.07 SUN 10 39 0.46 13 28 0.41 21 07 1.10	11
12 08 12 1.09 TUE 17 10 0.03 WED 16 21 22 36	0.03 THU 08 34	.50 27 02 20 0.46 FRI 08 53 0.90 15 42 0.27 21 35 0.84	12 04 39 0.14 SUN 10 19 0.50 14 33 0.33 21 41 0.93 27 05 23 -0.07 MON 21 34 1.17	12 05 21 -0.19
13 09 03 1.12 WED 17 36 0.04 THU 08 54 23 44 0.44 22 32	0.52 1.24 0.11 0.63 0.52 13 0.2 47 FRI 09 26 16 36 22 29	.43 85 SAT 10 01 0.31 SAT 10 01 0.78 15 50 0.38 21 49 0.98	13 05 20 0.01 MON 11 17 0.46 ■ 14 27 0.37 ■ 21 56 1.04 28 06 09 -0.15 TUE 22 06 1.20	13 06 02 -0.27 WED 21 53 1.21 28 07 01 -0.28 THU 22 42 1.14
14 01 26 0.43 THU 09 45 1.11 17 54 0.08 23 28 0.48 22 42	0.45 1.15 0.23 0.75 14 03 57 SAT 10 12 16 30 22 34	.33 29 04 58 0.16 SUN 11 07 0.66 0.28 15 44 0.46 0.22 08 1.10	14 06 01 -0.09 TUE 12 21 0.41 14 24 0.38 22 16 1.13	14 06 50 -0.32 THU 22 31 1.28 29 07 48 -0.28 FRI 23 27 1.12
15 02 41 0.40 FRI 10 24 1.07 ■ 18 06 0.15 ■ 23 32 0.56	0.36 1.01 0.35 0.88 15 04 55 SUN 11 00 16 15 22 46	.23 30 05 55 0.04 MON 12 19 0.55 15 19 0.50 22 33 1.17	15 06 48 -0.16	15 07 46 -0.34 8AT 30 08 35 -0.28 SAT
		31 06 48 -0.04 TUE 23 03 1.19		31 00 10 1.08 sun 09 17 -0.26

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