MANILA NORTH HARBOR

LAT 14° 36'N LONG 120° 57'E

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

May		Ju	ne	July	August
Time Ht.	Time Ht.	Time Ht.	Time Ht.	Time Ht. Time Ht.	Time Ht. Time Ht.
h. min. m. 1 03 03 -0.10 MON 18 43 0.61	h. min. m. 6	h. min. m. 1 01 15 0.23 THU 08 41 0.78 16 10 0.14 21 34 0.38	h. min. m. 16 08 27 1.07 FRI 17 05 -0.01	1 08 00 1.12 SAT 16 45 -0.06 SUN 17 49 -0.06	1 09 06 1.48 TUE 18 03 -0.15
2 03 21 -0.04 TUE 10 10 0.44 14 24 0.33 20 12 0.55	7 02 39 0.20 ED 08 56 0.75 15 48 0.21 21 34 0.52	2 01 09 0.30 FRI 08 52 0.92 16 49 -0.01 22 54 0.37	17 08 57 1.14 SAT 17 48 -0.10	2 08 34 1.26 17 09 23 1.23 MON 18 31 -0.09	2 09 57 1.53 17 10 39 1.24 THU 19 14 0.01
3 03 24 0.04 WED 09 52 0.54 15 42 0.20 21 23 0.50	NOTICE 1	3 01 09 0.34 SAT 09 10 1.06 17 29 -0.14	18 09 31 1.18 SUN 18 30 -0.15	3 09 14 1.38	3 10 48 1.51 HU 19 29 -0.07 FRI 02 22 0.34 11 16 1.19 19 35 0.07
4 03 18 0.12 THU 09 52 0.67 16 36 0.07 22 23 0.45	9 02 15 0.35 FRI 09 30 0.99 17 39 -0.09	4 00 21 0.35 SUN 01 00 0.35 ○ 09 35 1.18 18 14 -0.23	19 10 10 1.21 MON 19 16 -0.17	4 09 58 1.46 TUE 19 06 -0.24 WED 19 54 -0.10	4 11 36 1.41 FRI 20 05 0.03 19 00 51 0.41 SAT 03 24 0.36 11 53 1.10 19 48 0.15
5 03 09 0.20 FRI 10 02 0.79 17 23 -0.06 23 24 0.40	20 00 21 0.37 AT 01 34 0.36 09 54 1.06 18 25 -0.17	5 10 06 1.28 MON 19 06 -0.28	20 10 54 1.21 TUE 20 05 -0.17	5 10 47 1.49 20 11 30 1.26 THU 20 30 -0.08	5 SAT 02 19 0.45 SUN 04 32 0.49 SUN 04 32 0.40 12 31 0.97 19 53 0.24
6 03 02 0.26 SAT 10 15 0.91 18 09 -0.17	21 10 24 1.10 UN 19 11 -0.21	6 10 46 1.34 TUE 20 07 -0.29	21 11 39 1.21 WED 20 54 -0.17	6 11 39 1.47 THU 20 52 -0.18	6 02 36 0.56 SUN 06 00 0.49 13 15 1.07 20 50 0.26 21 01 36 0.59 MON 06 08 0.42 13 13 0.83 19 38 0.34
7 00 33 0.34 sun 02 58 0.30 10 33 1.02 19 01 -0.24	22 11 02 1.10 ON 20 00 -0.22	7 11 36 1.36 WED 21 12 -0.28	22 12 24 1.18 THU 21 40 -0.15	7 12 30 1.39 22 12 46 1.12 SAT 21 20 0.03	7 MON 02 58 0.69 MON 07 59 0.48 14 08 0.86 20 57 0.37 22 02 00 0.69 TUE 08 08 0.41 14 01 0.68 19 05 0.40
8 11 00 1.10 MON 20 00 -0.28 T	23 11 46 1.09 UE 20 54 -0.22	8 12 31 1.34 THU 22 12 -0.25	23 13 06 1.13 FRI 22 18 -0.12	8 13 21 1.25 SAT 22 06 0.01 23 13 21 0.99 SUN 21 31 0.12	8 03 23 0.82 TUE 09 36 0.42
9 11 37 1.15 TUE 21 08 -0.29 W	24 12 36 1.06 ED 21 54 -0.20	9 13 28 1.28 FRI 23 00 -0.18	24 13 44 1.04 SAT 22 46 -0.06	9 14 09 1.06 24 03 49 0.47 MON 05 03 0.47 13 57 0.84 21 27 0.22	9 03 54 0.92
	25 13 24 1.03 HU 22 52 -0.18	10 14 22 1.16 SAT 23 39 -0.08	25 14 18 0.92 sun 23 04 0.03	10 05 34 0.63 MON 08 49 0.55	10 04 34 1.00 THU 13 32 0.28
11 13 31 1.17 THU 23 34 -0.26	26 14 09 0.98 FRI 23 44 -0.15	11 15 15 1.00 SUN	26 14 49 0.77 MON 23 09 0.13	11 05 45 0.76 TUE 10 59 0.50 16 01 0.63 22 26 0.35	11 05 24 1.04 FRI 15 08 0.18 26 04 34 1.10 SAT 14 42 0.11
FRI S	27 14 51 0.90 AT	12 00 06 0.04 MON 07 25 0.58 09 45 0.55 16 14 0.79	27 08 29 0.57 TUE 11 16 0.55 15 26 0.61 22 59 0.23	12 06 06 0.89 WED 13 45 0.38 19 23 0.46 22 18 0.41 27 05 03 0.84 THU 14 03 0.33 17 55 0.38 19 39 0.37	12 06 24 1.08 27 05 45 1.20 SUN 15 36 0.01
13 00 31 -0.22 SAT 15 39 1.05 S	28 00 27 -0.10 UN 15 29 0.80	13 00 23 0.18 TUE 07 27 0.71 13 01 0.48 18 03 0.58	28 07 03 0.67 WED 14 26 0.42 16 56 0.44 22 32 0.31	13 06 36 0.99 THU 15 24 0.22	13 07 29 1.12 28 06 55 1.31 MON 16 20 -0.05
14 01 18 -0.14 SUN 16 47 0.92	29 00 58 -0.03 ON 16 14 0.66	14 00 21 0.29 WED 07 42 0.85 15 11 0.30 20 37 0.46	29 07 09 0.82 THU 15 32 0.25 20 39 0.35 21 49 0.35	14 07 12 1.07	14 08 29 1.17 MON 17 40 -0.01 29 08 02 1.40 TUE 16 59 -0.07
15 01 54 -0.04 MON 08 51 0.49 10 53 0.47 18 18 0.77	01 15 0.06 UE 09 25 0.54 13 31 0.47 17 31 0.52	15 00 06 0.37 THU 08 03 0.97 16 17 0.12 22 32 0.41 23 44 0.40	30 07 31 0.97 FRI 16 09 0.09	15 07 53 1.14 30 07 21 1.25 SUN 16 36 -0.06	15 09 19 1.22 TUE 18 16 -0.03 WED 17 35 -0.04 23 49 0.45
3 w	81 01 19 0.15 ED 08 46 0.64 15 22 0.31 19 46 0.42	20 77 0.40		31 08 15 1.38 MON 17 19 -0.13	31 01 14 0.44 THU 09 54 1.43 18 07 0.04 23 51 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