NAVOTAS, METRO MANILA

LAT 14° 41'N LONG 120° 56'E

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

January		February		March		April	
Time Ht. Tim		Time Ht.	Time Ht.	Time Ht.	Time Ht.	Time Ht.	Time Ht.
1 04 37 0.38 SUN 11 28 0.16 18 40 0.62 NON 09 3	in. m. 07 0.45 19 0.20 11 0.65	h. min. m. 1 03 31 -0.18 WED 19 00 0.86	h. min. m. 16 03 28 -0.03 THU 17 51 0.95	h. min. m. 1 02 12 -0.17 WED 16 54 0.73	h. min. m. 16 01 44 -0.05 THU 15 30 0.91	h. min. m. 1 03 00 -0.16 SAT 18 42 0.78	h. min. m. 16 02 47 -0.23 SUN 18 15 0.94
2 01 53 0.11 MON 08 10 0.25 TUE 06 3 10 42 0.24 19 07 0.77	88 0.29 80 0.30 90 0.26 81 0.80	2 04 08 -0.24 THU 19 51 0.96	17 04 03 -0.15 FRI 19 01 1.07	2 03 13 -0.21 THU 18 19 0.78	17 02 51 -0.16 FRI 17 14 0.96	2 03 24 -0.13 SUN 19 43 0.82	17 03 21 -0.18 MON 10 17 0.43 12 24 0.40 19 41 0.89
3 03 19 -0.05 TUE 19 40 0.92	4 0.14 23 0.31 6 0.31 86 0.95	3 04 37 -0.26 FRI 20 35 1.03	18 04 40 -0.25 SAT 20 00 1.17	3 03 44 -0.22 FRI 19 24 0.85	18 03 33 -0.24 SAT 18 39 1.02	3 03 45 -0.08 MON 10 34 0.39 13 06 0.37 20 35 0.85	18 03 48 -0.08 TUE 09 58 0.49 14 23 0.28 21 00 0.81
4 04 11 -0.17 HU 19 2	8 0.00 25 1.09	4 05 06 -0.26 SAT 21 13 1.07	19 05 16 -0.31 SUN 20 56 1.22	4 04 09 -0.22 SAT 20 15 0.92	19 04 09 -0.27 SUN 19 50 1.07	4 04 05 -0.01 TUE 10 23 0.45 14 53 0.33 21 20 0.83	19 04 06 0.05 WED 10 02 0.60 15 41 0.13 22 09 0.71
5 04 49 -0.24 FRI 20 94 5	57 -0.14 2 1.21	5 05 34 -0.24 SUN 21 48 1.08	20 05 53 -0.33 MON 21 50 1.20	5 04 33 -0.20 SUN 20 59 0.97	20 04 42 -0.26 MON 11 14 0.33 13 01 0.32 20 54 1.06	5 04 22 0.08 WED 10 18 0.51 15 42 0.27 22 03 0.78	20 04 15 0.18 THU 10 12 0.72 16 48 -0.02 23 12 0.57
6 05 24 -0.27 SAT 20 8	66 -0.25 68 1.30	6 06 03 -0.20 MON 22 18 1.06	21 06 28 -0.30 TUE 12 42 0.24 14 47 0.21 22 45 1.11	6 04 57 -0.15 MON 11 30 0.28 13 09 0.27 21 36 0.98	21 05 11 -0.19 TUE 11 09 0.36 14 44 0.23 21 56 0.98	6 04 33 0.17 THU 10 03 0.60 16 31 0.22 22 44 0.69	21 04 11 0.28 FRI 10 29 0.85 17 53 -0.15
7 05 59 -0.27 SAT 21 54 1.16 SUN 21 4	8 -0.33 6 1.32	7 06 32 -0.15 TUE 22 47 1.00	22 07 02 -0.22 WED 12 54 0.26 16 15 0.16 23 42 0.95	7 05 21 -0.09 TUE 11 30 0.30 14 16 0.25 22 10 0.94	22 05 36 -0.08 WED 11 17 0.42 16 05 0.12 22 55 0.85	7 04 30 0.25 FRI 10 03 0.70 17 27 0.16 23 27 0.57	22 00 18 0.42 SAT 03 46 0.32 10 50 0.93 18 54 -0.24
8 06 33 -0.24 23 07 0 MON 22 3	01 -0.37 08 1.28	8 06 58 -0.09 WED 13 29 0.17 14 28 0.17 23 15 0.92	23 07 30 -0.11 THU 13 09 0.32 17 44 0.10	8 05 42 -0.02 WED 11 26 0.33 15 07 0.23 22 43 0.86	23 05 54 0.04 THU 11 30 0.51 17 19 0.01 23 54 0.67	8 04 21 0.30 SAT 10 21 0.80 18 34 0.10	23 01 43 0.29 SUN 03 03 0.28 11 13 0.98 19 51 -0.28
9 07 08 -0.21 24 07 2 MON 22 51 1.09 TUE 23 3	4 -0.37 2 1.18	9 07 18 -0.02 THU 12 27 0.21 15 34 0.18 23 46 0.81	24 00 37 0.74 FRI 07 48 0.01 13 27 0.40 19 17 0.03	9 05 59 0.07 THU 11 00 0.39 15 57 0.20 23 15 0.75	24 06 02 0.16 FRI 11 46 0.61 18 33 -0.09	9 00 19 0.45 SUN 04 18 0.32 10 51 0.88 19 42 0.03	24 11 39 0.98 MON 20 45 -0.28
10 07 42 -0.17 UE 23 20 1.03 WED 08 2	25 -0.32	10 07 31 0.04 FRI 12 17 0.30 16 43 0.21	25 01 33 0.51 SAT 07 48 0.12 13 45 0.50 20 47 -0.04	10 06 06 0.14 FRI 11 01 0.48 16 56 0.18 23 51 0.62	25 00 54 0.47 SAT 05 47 0.23 12 06 0.70 19 46 -0.17	10 01 41 0.34 MON 04 09 0.31 11 26 0.94 20 45 -0.04	25 12 08 0.94 TUE 21 38 -0.25
11 08 11 -0.12 26 00 2 THU 09 0 15 17 3	27 1.01 00 -0.23 33 0.23 37 0.21	11 00 20 0.68 SAT 07 37 0.10 12 45 0.42 18 07 0.24	26 02 35 0.29 SUN 07 00 0.16 14 06 0.58 22 12 -0.09	11 06 03 0.19 SAT 11 25 0.58 18 18 0.16	26 02 05 0.28 sun 05 02 0.23 12 27 0.75 20 53 -0.21	11 12 06 0.98 TUE 21 49 -0.09	26 12 42 0.89 WED 22 39 -0.19
12 08 34 -0.06	21 0.80 27 -0.10 22 0.30 00 0.19	12 00 55 0.55 sun 07 42 0.14 13 23 0.54 20 31 0.25	27 14 37 0.65 MON 23 45 -0.12	12 00 30 0.49 sun 06 01 0.22 11 58 0.68 20 06 0.12	27 12 53 0.78 MON 21 57 -0.22	12 12 53 1.00 WED 23 06 -0.14	27 13 24 0.84 THU
13 00 26 0.85 RRI 08 51 0.00 SAT 09 3 22 6	3 0.56 38 0.03 59 0.41 07 0.13	13 01 31 0.40 MON 07 48 0.18 14 07 0.65 22 51 0.22	28 15 29 0.69 TUE	13 01 15 0.35 MON 05 58 0.24 12 36 0.76 21 33 0.08	28 13 25 0.78 TUE 23 15 -0.19	13 13 48 1.00	28 00 15 -0.14 FRI 14 28 0.78
14 01 02 0.73 SAT 09 04 0.06 15 18 0.35 17 19 0.35	2 0.32 1 0.13 27 0.53	14 02 03 0.26 TUE 07 30 0.22 (15 03 0.75		14 13 20 0.83 TUE 23 01 0.03	29 14 11 0.75	14 00 48 -0.18 FRI 15 06 0.98	29 01 23 -0.10 SAT 16 06 0.74
15 01 37 0.59 SUN 09 20 0.13 MON 17 0.50 MON 17 0.50 C 22 16 0.40	0.04 0 0.65	15 02 58 0.11 WED 16 21 0.84		15 14 12 0.87 WED	30 01 30 -0.18 THU 15 36 0.72	15 02 01 -0.23 SAT 16 44 0.96	30 01 54 -0.05 sun 17 35 0.73
31 02 7 TUE 18 0	7 -0.07 06 0.76				31 02 30 -0.17 FRI 17 23 0.73		

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