NAVOTAS, METRO MANILA

LAT 14° 41'N LONG 120° 56'E

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

Time Ht. h. min. m. h. m. l. m. h. min. m. l. m. l. m. h. min. m. l. m. l. min. m. l. m	WED 17 47 0.04
1 02 17 0.01	16 09 39 1.30 WED 17 47 0.04
2 02 36 0.08 TUE 09 28 0.55 WED 08 53 0.72 FRI 08 14 1.01 SAT 17 25 -0.18 SUN 17 33 0.05 MON 17 52 -0.12 WED 18 38 -0.0	17 10 14 1 27
14 38 0.42	THU 18 12 0:10
3 02 48 0.17 WED 09 19 0.66 15 32 0.33 21 07 0.67 22 38 0.48 31 0.14 0.43 SAT 08 33 1.15 17 32 0.09 23 26 0.47 8 16 15 0.00 23 26 0.47 8 16 15 0.00 23 26 0.47 8 16 15 0.00 23 26 0.47 8 16 16 16 16 16 16 16 16 16 16 16 16 16	10 45 1.20 18 36 0.17
4 02 51 0.26 19 02 18 0.36 4 01 22 0.44 19 09 54 1.31 4 09 27 1.48 19 10 21 1.31 4 11 07 1.48 16 22 0.24 0.24 17 14 -0.14 -0.14 0.00 18 21 0.00 18 48 -0.21 19 00 -0.12 WED 18 57 -0.05 FRI 19 57 -0.0	19 00 44 0.46 SAT 02 57 0.44 11 14 1.10 18 54 0.25
5 02 45 0.34 FRI 09 10 0.90 17 15 0.16 22 57 0.54 20 01 48 0.37 SAT 09 47 1.13 18 08 -0.23 5 09 36 1.32 MON 19 09 -0.09 19 09 -0.09 MON 19 09 -0.09 19 09 -0.09 19 09 -0.09 19 09 -0.09 12 0.00 19 09 -0.09 19 00 0.00 19 09 -0.09 10 0.00 19 09 -0.09 10 0.00 19 09 -0.09 10 0.00 19 09 -0.00 10 0.00 19 09 -0.00 10 0.00 19 09 -0.00 10 0.00 19 00 0.00 19 09 -0.00 19 00 0.00 19 09 -0.00 19 00 0.00 19 09 -0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0.00 19 00 0	11 42 0.99 19 04 0.32 23 54 0.60
6 02 45 0.38 SAT 09 27 1.01 SUN 18 57 -0.28 TUE 19 59 -0.18 WED 20 05 -0.14 THU 20 32 -0.21 PRI 19 54 0.06 SUN 05 34 0.4 13 01 1.00 20 57 0.1	21 04 54 0.45 MON 12 12 0.86 19 05 0.38
7 00 00 0 0.45 SUN 02 45 0.39 MON 19 44 -0.27 WED 20 50 -0.24 THU 20 40 -0.09 FRI 21 16 -0.18 SAT 20 14 0.13 MON 07 48 0.4 13 59 0.8 21 09 0.3	2 12 45 0.73
8 10 27 1.15 MON 19 59 -0.10 TUE 20 29 -0.24 THU 21 42 -0.27 PRI 21 11 -0.03 SAT 21 55 -0.10 SUN 20 27 0.20 8 0.3 14 0.6 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5 15 0.7 0.5	23 00 52 0.82 WED 08 36 0.47 13 17 0.60 19 03 0.45
9 11 06 1.17 TUE 20 54 -0.17 WED 21 14 -0.20 FRI 22 34 -0.25 SAT 21 35 0.03 SUN 22 26 0.02 MON 20 36 0.26 WED 11 21 0.2	24 01 34 0.92 THU 10 32 0.43 13 45 0.48 18 04 0.46
10 11 51 1.17 WED 21 52 -0.22	25 02 26 1.01 FRI 14 51 0.36
11 12 42 1.15 FRI 22 45 -0.08 11 14 47 0.96 26 13 51 0.79 11 05 36 0.62 26 02 58 0.71 WED 10 07 0.56 0.00 FRI 15 08 0.00 10 0 0 0.56 0 0 0.56 0.56 0.39 0.39 0.39 13 48 0.60 0.62 0.62 0.62 0.62 0.62 0.62 0.62 0.62 0.62 0.62 0.62 0.62 0.62 0.62 0.62 0.62 0.62 0.62 0.62 0.62 0.62 0.62 0.62 0.62 0.62 0.62 0.62 0.62 0.62 0.62 0.62 0.62 0.62 0.62 0.62 0.62 0.62 0.62 0.62 0.62 0.62 0.62 0.62 0.62 0.62 0.62 0.62 0.62 0.62 0.62 0.62 0.62 0.62 0.62 0.62 0.62 <	26 03 40 1.09 SAT 15 13 0.25
12 13 42 1.10 SAT 23 27 -0.01 MON 09 41 0.52 TUE 22 27 0.27 WED 13 06 0.26 19 40 0.39 21 23 0.39 21 22 0.44 15 55 -0.0	27 05 15 1.18 SUN 15 45 0.15
13 00 06 -0.25 SAT 14 54 1.02 SUN 23 58 0.07 TUE 07 33 0.61 12 38 0.41 17 52 0.57 SAT 14 54 1.02 SUN 23 58 0.07 TUE 07 33 0.61 12 38 0.41 17 52 0.57 SUN 23 58 0.07 TUE 07 33 0.61 12 38 0.41 17 52 0.57 SUN 25 0.54 22 49 0.35 THU 14 56 0.10 SUN 25 0.34 SUN 16 27 -0.00 SUN 25 0.54 25 0.55 SUN 25	28 06 33 1.29 MON 16 18 0.06
14 01 03 -0.20 sun 16 18 0.91 29 16 09 0.70 MON 14 00 39 0.25 web 07 36 0.76 14 24 0.23 20 30 0.45 29 06 39 0.86 THU 15 27 0.40 20 00 0.49 23 14 0.42 14 07 05 1.08 FRI 16 00 -0.03 29 06 03 1.13 SAT 16 08 0.22 14 08 16 1.2 MON 16 55 -0.00	29 07 33 1.39 TUE 16 52 0.01
15 01 45 -0.11 MON 09 30 0.50 TUE 08 45 0.60 13 45 0.54 17 51 0.62 17 51 0.62 22 37 0.41 23 46 0.41 23 46 0.41 23 46 0.41 23 46 0.41 23 46 0.41 36 0.41 36 0.41 37 51 0.62 20 37 0.41 23 46 0.41 23 46 0.41 37 51 0.62 20 37 0.41 23 46 0.41 23 46 0.41 37 51 0.62 20 37 0.41 23 46 0.41 23 46 0.41 23 46 0.41 23 46 0.41 23 46 0.41 23 46 0.41 23 46 0.41 23 46 0.41 23 46 0.41 23 46 0.41 23 46 0.41 24 0.45 24 0.45 25 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0.45 26 0	30 08 28 1.45 WED 17 26 -0.01
31 00 35 0.24 WED 08 18 0.72 15 00 0.43 19 45 0.57	31 00 01 0.54 THU 01 01 0.53 09 22 1.44 18 00 0.03

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