

MANILA SOUTH HARBOR

LAT 14° 35'N LONG 120° 58'E

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

| May | | | | June | | | | July | | | | August | | | |
|------------|-------|-------|--|------------|-------|-------|--|------------|-------|-------|--|------------|-------|-------|--|
| Time | | Ht. | | Time | | Ht. | | Time | | Ht. | | Time | | Ht. | |
| h. min. | | m. | | h. min. | | m. | | h. min. | | m. | | h. min. | | m. | |
| 1 | 02 04 | 0.01 | | 16 | 01 50 | 0.11 | | 1 | 07 32 | 1.20 | | 16 | 08 27 | 1.30 | |
| MON | 10 24 | 0.51 | | TUE | 08 36 | 0.67 | | FRI | 08 21 | 1.15 | | TUE | 08 39 | 1.53 | |
| | 11 52 | 0.51 | | | 13 44 | 0.41 | | | 16 13 | 0.01 | | | 17 45 | -0.18 | |
| | 18 29 | 0.77 | | | 19 39 | 0.75 | | | 16 34 | 0.05 | | | | | |
| 2 | 02 28 | 0.08 | | 17 | 02 11 | 0.22 | | 2 | 08 09 | 1.34 | | 2 | 09 37 | 1.58 | |
| TUE | 09 25 | 0.57 | | WED | 08 46 | 0.80 | | SUN | 17 05 | -0.13 | | WED | 18 27 | -0.16 | |
| | 14 00 | 0.42 | | | 15 00 | 0.25 | | | 17 07 | -0.13 | | | | | |
| | 19 50 | 0.71 | | | 21 10 | 0.64 | | | 18 12 | -0.06 | | | | | |
| 3 | 02 45 | 0.15 | | 18 | 02 22 | 0.32 | | 3 | 08 53 | 1.45 | | 3 | 10 36 | 1.57 | |
| WED | 09 22 | 0.65 | | THU | 09 04 | 0.94 | | MON | 17 54 | -0.22 | | THU | 19 07 | -0.08 | |
| | 15 05 | 0.29 | | | 16 03 | 0.10 | | | 18 45 | -0.04 | | | | | |
| | 21 08 | 0.66 | | | 22 23 | 0.55 | | | 19 48 | -0.04 | | | | | |
| 4 | 02 57 | 0.23 | | 19 | 02 21 | 0.39 | | 4 | 09 41 | 1.53 | | 4 | 11 35 | 1.51 | |
| THU | 09 30 | 0.76 | | FRI | 09 27 | 1.06 | | TUE | 18 44 | -0.25 | | FRI | 19 44 | 0.04 | |
| | 15 58 | 0.14 | | | 17 02 | -0.04 | | | 19 18 | 0.00 | | | | | |
| | 22 12 | 0.60 | | | 23 34 | 0.45 | | | 20 15 | 0.06 | | | | | |
| 5 | 03 01 | 0.31 | | 20 | 02 03 | 0.41 | | 5 | 10 33 | 1.56 | | 5 | 01 54 | 0.52 | |
| FRI | 09 43 | 0.89 | | SAT | 09 54 | 1.15 | | WED | 19 33 | -0.23 | | SAT | 04 09 | 0.48 | |
| | 16 49 | 0.00 | | | 17 57 | -0.13 | | | 20 21 | -0.15 | | | 12 30 | 1.38 | |
| | 23 11 | 0.53 | | | | | | | 21 15 | 1.29 | | | 20 15 | 0.18 | |
| 6 | 03 00 | 0.36 | | 21 | 10 23 | 1.21 | | 6 | 11 30 | 1.54 | | 6 | 02 11 | 0.63 | |
| SAT | 10 01 | 1.01 | | SUN | 18 49 | -0.19 | | THU | 20 21 | -0.15 | | SUN | 05 42 | 0.51 | |
| | 17 39 | -0.13 | | | | | | | 21 15 | 0.12 | | | 13 22 | 1.20 | |
| 7 | 00 11 | 0.45 | | 22 | 10 56 | 1.24 | | 7 | 12 29 | 1.47 | | 7 | 02 36 | 0.76 | |
| SUN | 02 54 | 0.38 | | MON | 19 40 | -0.21 | | FRI | 21 05 | -0.04 | | MON | 07 38 | 0.52 | |
| | 10 25 | 1.13 | | | | | | | 22 34 | 1.22 | | | 14 12 | 0.97 | |
| | 18 31 | -0.22 | | | | | | | 20 39 | 0.19 | | | 20 54 | 0.43 | |
| 8 | 01 33 | 0.37 | | 23 | 11 33 | 1.23 | | 8 | 13 26 | 1.35 | | 8 | 03 06 | 0.88 | |
| MON | 02 33 | 0.36 | | TUE | 20 30 | -0.19 | | SAT | 21 42 | 0.08 | | TUE | 09 35 | 0.49 | |
| | 10 56 | 1.22 | | | | | | | 23 01 | 0.54 | | | 15 08 | 0.74 | |
| | 19 26 | -0.28 | | | | | | | 20 57 | 0.26 | | | 20 50 | 0.50 | |
| 9 | 11 33 | 1.27 | | 24 | 12 13 | 1.20 | | 9 | 04 39 | 0.57 | | 9 | 03 45 | 1.00 | |
| TUE | 20 25 | -0.30 | | WED | 21 21 | -0.15 | | SUN | 05 33 | 0.57 | | WED | 11 38 | 0.41 | |
| | | | | | | | | | 14 21 | 1.17 | | | 17 10 | 0.52 | |
| 10 | 12 16 | 1.28 | | 25 | 12 58 | 1.15 | | 10 | 04 46 | 0.69 | | 10 | 04 30 | 1.08 | |
| WED | 21 32 | -0.28 | | THU | 22 12 | -0.10 | | MON | 08 42 | 0.62 | | THU | 14 03 | 0.28 | |
| | | | | | | | | | 15 14 | 0.96 | | | | | |
| 11 | 13 09 | 1.25 | | 26 | 13 47 | 1.09 | | 11 | 05 14 | 0.83 | | 11 | 05 26 | 1.15 | |
| THU | 22 43 | -0.24 | | FRI | 23 00 | -0.04 | | TUE | 11 15 | 0.56 | | FRI | 15 30 | 0.15 | |
| | | | | | | | | | 16 18 | 0.74 | | | | | |
| 12 | 14 13 | 1.19 | | 27 | 14 39 | 1.01 | | 12 | 05 48 | 0.96 | | 12 | 06 23 | 1.20 | |
| FRI | 23 49 | -0.18 | | SAT | 23 41 | 0.02 | | WED | 13 15 | 0.43 | | SAT | 16 14 | 0.05 | |
| | | | | | | | | | 18 39 | 0.54 | | | | | |
| 13 | 15 27 | 1.10 | | 28 | 15 31 | 0.92 | | 13 | 06 27 | 1.08 | | 13 | 07 17 | 1.24 | |
| SAT | | | | SUN | | | | THU | 15 01 | 0.27 | | SUN | 16 48 | 0.00 | |
| | | | | | | | | | 16 13 | 0.13 | | | | | |
| 14 | 00 42 | -0.10 | | 29 | 00 13 | 0.08 | | 14 | 07 06 | 1.18 | | 14 | 08 06 | 1.27 | |
| SUN | 16 42 | 0.99 | | MON | 16 29 | 0.82 | | FRI | 16 13 | 0.13 | | MON | 17 18 | -0.01 | |
| | | | | | | | | | 15 25 | 0.09 | | | | | |
| 15 | 01 21 | 0.00 | | 30 | 00 38 | 0.15 | | 15 | 07 47 | 1.25 | | 15 | 08 53 | 1.30 | |
| MON | 08 56 | 0.57 | | TUE | 08 16 | 0.65 | | SAT | 17 00 | 0.02 | | TUE | 17 45 | 0.01 | |
| | 11 39 | 0.54 | | | 12 49 | 0.55 | | | | | | | | | |
| | 18 03 | 0.87 | | | 17 39 | 0.70 | | | | | | | | | |
| | | | | 31 | 00 55 | 0.23 | | | | | | 31 | 09 37 | 1.46 | |
| | | | | WED | 08 06 | 0.74 | | | | | | THU | 17 49 | -0.02 | |
| | | | | | 14 12 | 0.41 | | | | | | | 23 58 | 0.50 | |
| | | | | | 19 24 | 0.60 | | | | | | | | | |

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