BULAN, SORSOGON

LAT 12° 40'N LONG 123° 52'E

TIMES AND HEIGHTS OF HIGH AND LOW WATERS

| September | | October | | November | | December | |
|---|--|---|--|---|--|--|--|
| | Time Ht. | Time Ht. | Time Ht. | Time Ht. | Time Ht. | Time Ht. | Time Ht. |
| 1 00 52 0.87 FRI 05 16 0.43 12 00 1.67 | h. min. m. 00 18 1.04 05 47 0.31 12 03 1.40 18 30 0.18 | h. min. m. 1 06 08 -0.02 SUN 12 36 1.28 18 19 0.28 | h. min. m. 16 06 04 -0.05 MON 12 21 1.06 17 43 0.31 23 48 1.36 | h. min. m. 1 07 24 -0.29 WED 13 55 0.63 17 44 0.38 | h. min. m. 16 07 15 -0.38 THU 14 00 0.54 17 19 0.38 | h. min. m. 1 00 15 1.41 FRI 08 00 -0.35 15 00 0.38 17 31 0.33 | h. min. m. 16 00 15 1.41 SAT 08 15 -0.50 15 29 0.35 17 30 0.31 |
| 2 01 03 0.98 SAT 06 10 0.28 12 46 1.58 19 26 0.12 | 00 27 1.12 06 18 0.22 12 33 1.33 18 42 0.23 | 2 00 15 1.36 MON 06 53 -0.09 13 17 1.11 18 31 0.35 | 17 06 37 -0.12 TUE 12 55 0.96 17 55 0.35 | 2 00 28 1.53 THU 08 02 -0.23 14 33 0.52 17 55 0.38 | 17 00 10 1.47 FRI 07 56 -0.36 14 51 0.46 17 33 0.38 | 2 00 49 1.34 SAT 08 34 -0.27 15 41 0.38 17 56 0.35 | 17 00 57 1.37 SUN 08 57 -0.43 16 05 0.35 18 24 0.31 |
| SUN 07 02 0 18 MON | 00 40 1.22 06 50 0.16 13 03 1.23 18 53 0.28 | 3 00 39 1.47 TUE 07 36 -0.11 13 54 0.93 18 42 0.39 | 18 00 09 1.43 WED 07 12 -0.15 13 30 0.83 18 08 0.38 | 3 00 58 1.48 FRI 08 40 -0.14 15 17 0.45 17 57 0.40 | 18 00 44 1.45 SAT 08 42 -0.29 15 56 0.40 17 39 0.38 | 3 01 23 1.23 SUN 09 09 -0.18 16 32 0.40 18 20 0.39 | 18 01 43 1.27 MON 09 38 -0.32 16 36 0.40 19 31 0.32 |
| 4 01 37 1.26 MON 07 51 0.13 14 09 1.23 19 52 0.33 | 00 57 1.30 07 23 0.12 13 33 1.11 19 05 0.34 | 4 01 06 1.53 WED 08 18 -0.07 14 30 0.76 18 51 0.42 | 19 00 33 1.48 THU 07 49 -0.16 14 08 0.70 18 20 0.42 | 4 01 27 1.38 SAT 09 23 -0.03 16 51 0.42 17 06 0.42 | 19 01 22 1.38 sun 09 33 -0.21 | 4 01 57 1.11 MON 09 47 -0.09 17 58 0.45 18 36 0.45 | 19 02 34 1.13 TUE 10 18 -0.20 17 10 0.48 20 54 0.34 |
| TUE 08 40 0.13 WED | 01 16 1.37 07 59 0.10 14 04 0.97 19 16 0.39 | 5 01 33 1.53 THU 09 00 0.01 15 06 0.61 18 50 0.45 | 20 00 59 1.49 FRI 08 32 -0.12 14 54 0.57 18 25 0.44 | 5 01 57 1.24 SUN 10 18 0.07 | 20 02 07 1.26 MON 10 37 -0.10 | 5 02 35 0.96 TUE 10 31 0.00 | 20 03 33 0.94 WED 11 00 -0.06 |
| 6 02 27 1.43 21 WED 09 31 0.18 THU 15 24 0.80 20 03 0.47 | 01 38 1.42 08 40 0.10 14 40 0.81 19 24 0.45 | 6 02 00 1.47 FRI 09 51 0.12 | 21 01 28 1.47 SAT 09 25 -0.05 16 12 0.46 17 57 0.45 | 6 02 28 1.08 MON 11 46 0.16 | 21 03 08 1.09 TUE 11 57 -0.01 | 6 03 24 0.80 WED 11 27 0.09 19 40 0.60 | 21 04 51 0.73 THU 11 43 0.07 18 36 0.72 |
| 7 02 56 1.44 THU 10 33 0.26 | 02 03 1.44 09 33 0.14 15 27 0.64 19 18 0.50 | 7 02 27 1.36 SAT 11 06 0.23 | 22 02 03 1.40 SUN 10 42 0.04 | 7 03 18 0.91 TUE 13 34 0.19 22 41 0.75 | 22 04 52 0.91 WED 13 10 0.07 20 27 0.67 | 7 00 03 0.53 THU 05 00 0.65 12 32 0.17 20 02 0.70 | 22 01 01 0.21 FRI 06 40 0.55 12 30 0.18 19 24 0.86 |
| 8 03 28 1.39 23 SAT SAT | 02 33 1.43 10 55 0.19 | 8 02 58 1.22 SUN 14 03 0.25 | 23 02 48 1.28 MON 12 46 0.08 | 8 01 59 0.71 WED 06 34 0.80 14 33 0.19 21 51 0.80 | 23 01 18 0.47 THU 07 12 0.81 14 06 0.13 20 42 0.82 | 8 02 15 0.38 FRI 07 15 0.57 13 30 0.22 20 26 0.81 | 23 02 42 0.02 SAT 08 58 0.46 13 16 0.27 20 11 1.00 |
| 9 04 11 1.30 24 SUN | 03 13 1.37 13 23 0.18 | 9 03 54 1.06 MON 15 23 0.19 | 24 04 24 1.11 TUE 14 24 0.07 23 24 0.75 | 9 03 09 0.52 THU 08 27 0.82 15 09 0.20 21 45 0.88 | 24 02 51 0.22 FRI 08 55 0.79 14 45 0.20 21 06 0.99 | 9 03 13 0.17 SAT 09 00 0.57 14 15 0.27 20 51 0.93 | 24 03 54 -0.18 SUN 10 45 0.44 14 00 0.33 20 57 1.12 |
| 10 05 48 1.20 25 MON | 04 27 1.28 15 16 0.07 | 10 00 21 0.87 TUE 02 04 0.86 07 42 1.01 15 57 0.15 23 12 0.87 | 25 00 08 0.75 WED 07 24 1.06 15 17 0.06 22 09 0.81 | 10 03 42 0.32 FRI 09 30 0.87 15 36 0.22 21 53 0.98 | 25 03 50 -0.02 SAT 10 10 0.77 15 17 0.26 21 33 1.15 | 10 03 57 -0.04 SUN 10 16 0.57 14 50 0.31 21 19 1.05 | 25 04 50 -0.34 MON 11 55 0.44 14 40 0.36 21 41 1.23 |
| 11 08 15 1.21 26 MON 16 51 0.09 TUE | 07 26 1.25 16 09 -0.01 23 51 0.82 | 11 03 30 0.69 WED 09 07 1.09 16 21 0.13 23 00 0.91 | 26 02 51 0.52 THU 09 01 1.11 15 53 0.09 22 10 0.93 | 11 04 15 0.12 SAT 10 19 0.90 15 59 0.25 22 06 1.10 | 26 04 39 -0.23 SUN 11 12 0.72 15 42 0.31 22 02 1.29 | 11 04 39 -0.23 MON 11 17 0.56 15 16 0.34 21 49 1.17 | 26 05 38 -0.45 TUE 12 49 0.42 15 18 0.36 22 24 1.30 |
| 12 00 20 0.88 TUE 03 12 0.82 09 30 1.30 17 17 0.05 | 02 14 0.78 09 06 1.36 16 48 -0.04 23 27 0.85 | 12 04 03 0.50 THU 09 57 1.17 16 42 0.14 22 58 0.98 | 27 03 49 0.25 FRI 10 06 1.15 16 21 0.15 22 22 1.08 | 12 04 48 -0.06 SUN 11 03 0.88 16 18 0.28 22 25 1.21 | 27 05 24 -0.36 MON 12 06 0.65 | 12 05 21 -0.38 TUE 12 12 0.53 15 39 0.36 22 21 1.28 | 27 06 21 -0.50 WED 13 34 0.39 15 57 0.34 23 05 1.33 |
| 13 00 09 0.89 WED 04 06 0.68 THU 17 39 0.05 | 03 39 0.56 10 11 1.45 17 19 0.00 23 30 0.94 | 13 04 32 0.33 FRI 10 37 1.21 17 00 0.17 23 03 1.07 | 28 04 36 0.02 SAT 11 01 1.12 16 42 0.23 22 41 1.24 | 13 05 21 -0.20 MON 11 46 0.82 16 34 0.32 22 47 1.32 | 28 06 06 -0.44 TUE 12 54 0.56 16 24 0.34 23 06 1.45 | 13 06 03 -0.48 WED 13 04 0.48 16 00 0.36 22 57 1.36 | 28 07 00 -0.51 THU 14 09 0.37 16 38 0.31 23 44 1.33 |
| 14 00 08 0.92 29 THU 04 42 0.54 FRI 10 57 1.43 17 58 0.08 | 04 33 0.33 11 04 1.47 17 45 0.08 23 39 1.06 | 14 05 02 0.18 SAT 11 13 1.20 17 16 0.22 23 14 1.17 | 29 05 21 -0.16 SUN 11 50 1.03 17 00 0.30 23 04 1.38 | 14 05 57 -0.30 TUE 12 29 0.74 16 48 0.35 23 12 1.40 | 29 06 47 -0.45 WED 13 39 0.48 16 46 0.34 23 40 1.45 | 14 06 48 -0.54 THU 13 56 0.42 16 22 0.35 23 34 1.41 | 29 07 35 -0.48 FRI 14 37 0.36 17 21 0.28 |
| 15 00 11 0.97 FRI 05 15 0.41 ● 11 31 1.44 ● 18 15 0.12 | 05 22 0.13 11 51 1.41 18 04 0.18 23 54 1.21 | 15 05 33 0.05 sun 11 48 1.15 17 30 0.26 23 29 1.27 | 30 06 03 -0.27 MON 12 35 0.90 17 15 0.35 23 30 1.48 | 15 06 35 -0.36 WED 13 13 0.64 17 03 0.37 23 39 1.45 | 30 07 24 -0.41 THU 14 21 0.42 17 09 0.33 | 15 07 32 -0.54 FRI 14 45 0.37 16 51 0.33 | 30 00 22 1.30 SAT 08 04 -0.42 14 58 0.38 18 04 0.27 |
| | | | 31 06 45 -0.31 TUE 13 17 0.76 17 30 0.37 23 59 1.54 | | | | 31 00 57 1.24 SUN 08 30 -0.35 15 16 0.41 18 48 0.27 |

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