

MANILA SOUTH HARBOR

2023

LAT 14° 35'N LONG 120° 58'E

SEPTEMBER

| DD/HH | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|---------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|------|------|------|------|------|------|
| 1 F | 0.50 | 0.47 | 0.44 | 0.43 | 0.48 | 0.59 | 0.75 | 0.95 | 1.15 | 1.30 | 1.39 | 1.40 | 1.31 | 1.12 | 0.86 | 0.59 | 0.36 | 0.19 | 0.11 | 0.13 | 0.22 | 0.34 | 0.46 | 0.55 |
| 2 Sa | 0.59 | 0.56 | 0.48 | 0.41 | 0.39 | 0.42 | 0.51 | 0.67 | 0.86 | 1.05 | 1.19 | 1.27 | 1.28 | 1.18 | 1.00 | 0.77 | 0.54 | 0.37 | 0.26 | 0.24 | 0.31 | 0.42 | 0.54 | 0.64 |
| 3 Su | 0.70 | 0.69 | 0.61 | 0.50 | 0.40 | 0.35 | 0.36 | 0.44 | 0.58 | 0.75 | 0.91 | 1.03 | 1.10 | 1.10 | 1.00 | 0.84 | 0.66 | 0.51 | 0.41 | 0.37 | 0.40 | 0.50 | 0.63 | 0.74 |
| 4 M | 0.82 | 0.84 | 0.78 | 0.66 | 0.52 | 0.41 | 0.34 | 0.32 | 0.37 | 0.48 | 0.62 | 0.74 | 0.84 | 0.89 | 0.88 | 0.80 | 0.69 | 0.58 | 0.50 | 0.46 | 0.49 | 0.57 | 0.69 | 0.81 |
| 5 Tu | 0.90 | 0.95 | 0.93 | 0.85 | 0.71 | 0.56 | 0.43 | 0.33 | 0.29 | 0.31 | 0.38 | 0.48 | 0.57 | 0.64 | 0.67 | 0.66 | 0.61 | 0.56 | 0.52 | 0.51 | 0.53 | 0.60 | 0.71 | 0.84 |
| 6 W | 0.95 | 1.02 | 1.04 | 1.00 | 0.89 | 0.75 | 0.59 | 0.45 | 0.34 | 0.27 | 0.26 | 0.29 | 0.34 | 0.39 | 0.44 | 0.46 | 0.47 | 0.47 | 0.48 | 0.50 | 0.54 | 0.61 | 0.71 | 0.82 |
| 7 Th ☾ | 0.94 | 1.03 | 1.09 | 1.08 | 1.03 | 0.92 | 0.78 | 0.62 | 0.47 | 0.34 | 0.25 | 0.21 | 0.20 | 0.21 | 0.24 | 0.27 | 0.31 | 0.34 | 0.39 | 0.44 | 0.50 | 0.57 | 0.67 | 0.78 |
| 8 F | 0.89 | 0.99 | 1.07 | 1.11 | 1.10 | 1.04 | 0.94 | 0.81 | 0.65 | 0.49 | 0.34 | 0.23 | 0.16 | 0.12 | 0.11 | 0.12 | 0.16 | 0.21 | 0.28 | 0.35 | 0.43 | 0.51 | 0.60 | 0.71 |
| 9 Sa | 0.81 | 0.92 | 1.00 | 1.07 | 1.11 | 1.10 | 1.06 | 0.96 | 0.82 | 0.66 | 0.49 | 0.34 | 0.21 | 0.11 | 0.05 | 0.04 | 0.06 | 0.11 | 0.18 | 0.27 | 0.36 | 0.44 | 0.53 | 0.62 |
| 10 Su | 0.72 | 0.81 | 0.91 | 0.99 | 1.06 | 1.10 | 1.11 | 1.07 | 0.98 | 0.84 | 0.67 | 0.49 | 0.32 | 0.18 | 0.07 | 0.01 | 0.00 | 0.05 | 0.12 | 0.21 | 0.30 | 0.39 | 0.46 | 0.54 |
| 11 M | 0.62 | 0.70 | 0.79 | 0.88 | 0.97 | 1.05 | 1.11 | 1.12 | 1.08 | 0.98 | 0.84 | 0.66 | 0.47 | 0.29 | 0.14 | 0.04 | 0.00 | 0.02 | 0.09 | 0.18 | 0.27 | 0.35 | 0.42 | 0.48 |
| 12 Tu | 0.53 | 0.60 | 0.67 | 0.75 | 0.85 | 0.96 | 1.06 | 1.12 | 1.14 | 1.09 | 0.98 | 0.82 | 0.62 | 0.42 | 0.24 | 0.11 | 0.04 | 0.04 | 0.09 | 0.18 | 0.27 | 0.35 | 0.41 | 0.45 |
| 13 W | 0.48 | 0.51 | 0.55 | 0.62 | 0.72 | 0.84 | 0.96 | 1.07 | 1.14 | 1.14 | 1.08 | 0.96 | 0.77 | 0.56 | 0.37 | 0.21 | 0.11 | 0.08 | 0.11 | 0.20 | 0.29 | 0.37 | 0.43 | 0.47 |
| 14 Th | 0.47 | 0.46 | 0.47 | 0.51 | 0.58 | 0.69 | 0.83 | 0.97 | 1.08 | 1.13 | 1.13 | 1.05 | 0.90 | 0.70 | 0.49 | 0.32 | 0.19 | 0.14 | 0.16 | 0.23 | 0.33 | 0.41 | 0.48 | 0.51 |
| 15 F ● | 0.50 | 0.46 | 0.42 | 0.42 | 0.46 | 0.55 | 0.68 | 0.83 | 0.96 | 1.06 | 1.10 | 1.08 | 0.97 | 0.80 | 0.60 | 0.42 | 0.29 | 0.22 | 0.22 | 0.28 | 0.38 | 0.47 | 0.54 | 0.58 |
| 16 Sa | 0.57 | 0.51 | 0.43 | 0.38 | 0.38 | 0.42 | 0.52 | 0.66 | 0.81 | 0.93 | 1.01 | 1.04 | 0.99 | 0.86 | 0.69 | 0.51 | 0.38 | 0.30 | 0.29 | 0.34 | 0.43 | 0.53 | 0.61 | 0.66 |
| 17 Su | 0.66 | 0.59 | 0.49 | 0.39 | 0.34 | 0.33 | 0.38 | 0.49 | 0.63 | 0.76 | 0.87 | 0.94 | 0.94 | 0.87 | 0.73 | 0.57 | 0.45 | 0.37 | 0.35 | 0.39 | 0.48 | 0.59 | 0.68 | 0.74 |
| 18 M | 0.76 | 0.70 | 0.59 | 0.46 | 0.35 | 0.29 | 0.29 | 0.34 | 0.45 | 0.57 | 0.69 | 0.78 | 0.83 | 0.81 | 0.72 | 0.60 | 0.49 | 0.42 | 0.40 | 0.44 | 0.53 | 0.64 | 0.75 | 0.82 |
| 19 Tu | 0.85 | 0.82 | 0.72 | 0.57 | 0.42 | 0.31 | 0.25 | 0.24 | 0.29 | 0.39 | 0.50 | 0.60 | 0.67 | 0.69 | 0.66 | 0.59 | 0.50 | 0.44 | 0.43 | 0.47 | 0.55 | 0.67 | 0.80 | 0.89 |
| 20 W | 0.94 | 0.93 | 0.85 | 0.72 | 0.55 | 0.39 | 0.27 | 0.20 | 0.19 | 0.23 | 0.32 | 0.41 | 0.48 | 0.54 | 0.55 | 0.52 | 0.48 | 0.44 | 0.44 | 0.47 | 0.56 | 0.68 | 0.81 | 0.93 |
| 21 Th | 1.00 | 1.02 | 0.98 | 0.87 | 0.71 | 0.54 | 0.37 | 0.24 | 0.16 | 0.14 | 0.17 | 0.23 | 0.30 | 0.36 | 0.40 | 0.42 | 0.41 | 0.41 | 0.42 | 0.46 | 0.54 | 0.65 | 0.79 | 0.93 |
| 22 F | 1.03 | 1.08 | 1.07 | 1.01 | 0.89 | 0.72 | 0.54 | 0.37 | 0.23 | 0.14 | 0.10 | 0.10 | 0.14 | 0.18 | 0.23 | 0.27 | 0.31 | 0.34 | 0.38 | 0.43 | 0.50 | 0.61 | 0.74 | 0.88 |
| 23 Sa ☾ | 1.01 | 1.10 | 1.13 | 1.11 | 1.04 | 0.92 | 0.76 | 0.57 | 0.39 | 0.23 | 0.12 | 0.05 | 0.03 | 0.04 | 0.07 | 0.11 | 0.18 | 0.24 | 0.31 | 0.38 | 0.45 | 0.55 | 0.67 | 0.80 |
| 24 Su | 0.93 | 1.05 | 1.12 | 1.16 | 1.15 | 1.09 | 0.97 | 0.81 | 0.62 | 0.43 | 0.25 | 0.11 | 0.01 | -0.04 | -0.05 | -0.02 | 0.04 | 0.13 | 0.23 | 0.31 | 0.40 | 0.48 | 0.58 | 0.69 |
| 25 M | 0.81 | 0.93 | 1.04 | 1.13 | 1.18 | 1.19 | 1.14 | 1.04 | 0.88 | 0.68 | 0.47 | 0.27 | 0.10 | -0.02 | -0.09 | -0.10 | -0.06 | 0.03 | 0.15 | 0.25 | 0.35 | 0.43 | 0.50 | 0.58 |
| 26 Tu | 0.67 | 0.78 | 0.89 | 1.00 | 1.11 | 1.19 | 1.22 | 1.19 | 1.10 | 0.94 | 0.74 | 0.51 | 0.28 | 0.09 | -0.05 | -0.11 | -0.10 | -0.02 | 0.09 | 0.21 | 0.32 | 0.41 | 0.46 | 0.50 |
| 27 W | 0.54 | 0.60 | 0.69 | 0.81 | 0.94 | 1.07 | 1.18 | 1.24 | 1.23 | 1.14 | 0.99 | 0.77 | 0.52 | 0.28 | 0.09 | -0.03 | -0.07 | -0.03 | 0.08 | 0.21 | 0.33 | 0.42 | 0.48 | 0.49 |
| 28 Th | 0.47 | 0.47 | 0.50 | 0.58 | 0.70 | 0.86 | 1.02 | 1.15 | 1.22 | 1.23 | 1.15 | 0.98 | 0.75 | 0.50 | 0.28 | 0.11 | 0.02 | 0.03 | 0.12 | 0.25 | 0.38 | 0.48 | 0.54 | 0.54 |
| 29 F ○ | 0.49 | 0.42 | 0.37 | 0.38 | 0.45 | 0.58 | 0.76 | 0.94 | 1.08 | 1.16 | 1.17 | 1.10 | 0.93 | 0.70 | 0.47 | 0.29 | 0.17 | 0.14 | 0.20 | 0.32 | 0.46 | 0.57 | 0.64 | 0.65 |
| 30 Sa | 0.59 | 0.47 | 0.35 | 0.28 | 0.27 | 0.33 | 0.47 | 0.65 | 0.83 | 0.97 | 1.06 | 1.07 | 0.99 | 0.83 | 0.63 | 0.45 | 0.32 | 0.26 | 0.29 | 0.40 | 0.54 | 0.67 | 0.76 | 0.79 |

OCTOBER

| DD/HH | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 |
|-------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|
| 1 | Su | 0.74 | 0.61 | 0.44 | 0.28 | 0.19 | 0.16 | 0.22 | 0.35 | 0.53 | 0.69 | 0.82 | 0.91 | 0.91 | 0.83 | 0.69 | 0.55 | 0.44 | 0.38 | 0.39 | 0.48 | 0.61 | 0.76 | 0.87 | 0.92 |
| 2 | M | 0.90 | 0.79 | 0.61 | 0.41 | 0.23 | 0.12 | 0.08 | 0.13 | 0.25 | 0.40 | 0.54 | 0.66 | 0.73 | 0.73 | 0.66 | 0.57 | 0.49 | 0.45 | 0.46 | 0.53 | 0.65 | 0.80 | 0.93 | 1.01 |
| 3 | Tu | 1.03 | 0.96 | 0.81 | 0.60 | 0.38 | 0.20 | 0.08 | 0.03 | 0.06 | 0.16 | 0.28 | 0.40 | 0.49 | 0.54 | 0.54 | 0.51 | 0.48 | 0.46 | 0.49 | 0.55 | 0.66 | 0.80 | 0.94 | 1.05 |
| 4 | W | 1.10 | 1.08 | 0.98 | 0.80 | 0.59 | 0.38 | 0.20 | 0.07 | 0.01 | 0.02 | 0.09 | 0.17 | 0.26 | 0.33 | 0.37 | 0.39 | 0.40 | 0.42 | 0.46 | 0.53 | 0.63 | 0.76 | 0.90 | 1.02 |
| 5 | Th | 1.10 | 1.12 | 1.08 | 0.96 | 0.78 | 0.58 | 0.38 | 0.20 | 0.08 | 0.01 | 0.00 | 0.03 | 0.09 | 0.15 | 0.20 | 0.25 | 0.29 | 0.34 | 0.40 | 0.48 | 0.58 | 0.70 | 0.83 | 0.95 |
| 6 | F ☾ | 1.05 | 1.10 | 1.10 | 1.04 | 0.93 | 0.77 | 0.58 | 0.39 | 0.22 | 0.10 | 0.02 | -0.01 | 0.00 | 0.03 | 0.07 | 0.12 | 0.18 | 0.25 | 0.32 | 0.41 | 0.50 | 0.62 | 0.73 | 0.85 |
| 7 | Sa | 0.95 | 1.02 | 1.06 | 1.06 | 1.00 | 0.90 | 0.76 | 0.59 | 0.41 | 0.25 | 0.13 | 0.04 | -0.01 | -0.03 | -0.01 | 0.03 | 0.09 | 0.17 | 0.25 | 0.34 | 0.43 | 0.53 | 0.63 | 0.74 |
| 8 | Su | 0.83 | 0.91 | 0.97 | 1.01 | 1.01 | 0.97 | 0.88 | 0.75 | 0.59 | 0.43 | 0.28 | 0.15 | 0.05 | -0.01 | -0.03 | -0.01 | 0.05 | 0.12 | 0.21 | 0.30 | 0.38 | 0.47 | 0.55 | 0.63 |
| 9 | M | 0.71 | 0.78 | 0.85 | 0.91 | 0.96 | 0.98 | 0.95 | 0.87 | 0.75 | 0.60 | 0.44 | 0.28 | 0.15 | 0.05 | -0.01 | -0.01 | 0.03 | 0.11 | 0.19 | 0.28 | 0.36 | 0.43 | 0.49 | 0.54 |
| 10 | Tu | 0.60 | 0.65 | 0.71 | 0.78 | 0.86 | 0.92 | 0.95 | 0.93 | 0.86 | 0.75 | 0.60 | 0.43 | 0.27 | 0.14 | 0.05 | 0.01 | 0.04 | 0.11 | 0.20 | 0.29 | 0.37 | 0.43 | 0.47 | 0.49 |
| 11 | W | 0.51 | 0.54 | 0.58 | 0.64 | 0.73 | 0.82 | 0.90 | 0.93 | 0.92 | 0.85 | 0.73 | 0.57 | 0.40 | 0.25 | 0.13 | 0.07 | 0.08 | 0.14 | 0.23 | 0.33 | 0.41 | 0.47 | 0.50 | 0.49 |
| 12 | Th | 0.47 | 0.45 | 0.46 | 0.50 | 0.57 | 0.68 | 0.79 | 0.87 | 0.91 | 0.89 | 0.82 | 0.69 | 0.52 | 0.36 | 0.23 | 0.15 | 0.13 | 0.18 | 0.27 | 0.38 | 0.47 | 0.53 | 0.55 | 0.53 |
| 13 | F | 0.47 | 0.41 | 0.37 | 0.37 | 0.42 | 0.51 | 0.63 | 0.75 | 0.83 | 0.87 | 0.85 | 0.76 | 0.62 | 0.46 | 0.33 | 0.23 | 0.20 | 0.24 | 0.33 | 0.44 | 0.54 | 0.61 | 0.64 | 0.61 |
| 14 | Sa | 0.52 | 0.41 | 0.32 | 0.27 | 0.27 | 0.34 | 0.45 | 0.58 | 0.70 | 0.78 | 0.81 | 0.78 | 0.68 | 0.54 | 0.41 | 0.31 | 0.27 | 0.30 | 0.38 | 0.50 | 0.61 | 0.69 | 0.73 | 0.71 |
| 15 | Su ● | 0.61 | 0.47 | 0.33 | 0.22 | 0.17 | 0.18 | 0.26 | 0.39 | 0.52 | 0.64 | 0.71 | 0.74 | 0.69 | 0.58 | 0.46 | 0.37 | 0.34 | 0.35 | 0.43 | 0.55 | 0.68 | 0.78 | 0.83 | 0.82 |
| 16 | M | 0.74 | 0.58 | 0.39 | 0.23 | 0.12 | 0.07 | 0.10 | 0.19 | 0.32 | 0.45 | 0.56 | 0.63 | 0.64 | 0.58 | 0.49 | 0.41 | 0.38 | 0.40 | 0.47 | 0.59 | 0.73 | 0.85 | 0.92 | 0.93 |
| 17 | Tu | 0.87 | 0.72 | 0.52 | 0.31 | 0.14 | 0.03 | -0.02 | 0.02 | 0.13 | 0.25 | 0.37 | 0.47 | 0.53 | 0.53 | 0.47 | 0.42 | 0.39 | 0.41 | 0.49 | 0.61 | 0.75 | 0.89 | 0.99 | 1.02 |
| 18 | W | 0.99 | 0.87 | 0.68 | 0.45 | 0.23 | 0.06 | -0.05 | -0.08 | -0.03 | 0.07 | 0.18 | 0.29 | 0.38 | 0.42 | 0.42 | 0.39 | 0.38 | 0.41 | 0.48 | 0.59 | 0.74 | 0.90 | 1.02 | 1.08 |
| 19 | Th | 1.08 | 1.01 | 0.85 | 0.64 | 0.40 | 0.18 | 0.01 | -0.09 | -0.12 | -0.07 | 0.01 | 0.11 | 0.20 | 0.28 | 0.32 | 0.34 | 0.35 | 0.38 | 0.44 | 0.55 | 0.69 | 0.85 | 1.00 | 1.10 |
| 20 | F | 1.14 | 1.11 | 1.00 | 0.83 | 0.61 | 0.38 | 0.16 | -0.01 | -0.11 | -0.14 | -0.11 | -0.04 | 0.04 | 0.12 | 0.19 | 0.24 | 0.29 | 0.33 | 0.40 | 0.49 | 0.62 | 0.78 | 0.93 | 1.06 |
| 21 | Sa | 1.14 | 1.15 | 1.10 | 0.99 | 0.82 | 0.61 | 0.38 | 0.17 | 0.01 | -0.10 | -0.14 | -0.13 | -0.09 | -0.02 | 0.05 | 0.13 | 0.20 | 0.27 | 0.34 | 0.43 | 0.54 | 0.68 | 0.83 | 0.96 |
| 22 | Su ☾ | 1.07 | 1.13 | 1.14 | 1.09 | 0.99 | 0.83 | 0.63 | 0.41 | 0.21 | 0.04 | -0.07 | -0.13 | -0.14 | -0.12 | -0.06 | 0.02 | 0.12 | 0.21 | 0.30 | 0.38 | 0.47 | 0.58 | 0.70 | 0.83 |
| 23 | M | 0.94 | 1.03 | 1.09 | 1.10 | 1.08 | 0.99 | 0.85 | 0.67 | 0.46 | 0.26 | 0.09 | -0.04 | -0.12 | -0.15 | -0.12 | -0.05 | 0.05 | 0.16 | 0.26 | 0.35 | 0.43 | 0.50 | 0.59 | 0.68 |
| 24 | Tu | 0.77 | 0.86 | 0.95 | 1.02 | 1.06 | 1.06 | 1.00 | 0.87 | 0.71 | 0.51 | 0.31 | 0.13 | -0.01 | -0.09 | -0.12 | -0.08 | 0.02 | 0.13 | 0.25 | 0.35 | 0.42 | 0.48 | 0.51 | 0.55 |
| 25 | W | 0.60 | 0.66 | 0.75 | 0.84 | 0.93 | 1.00 | 1.02 | 0.98 | 0.89 | 0.73 | 0.54 | 0.34 | 0.16 | 0.03 | -0.05 | -0.04 | 0.03 | 0.15 | 0.28 | 0.39 | 0.47 | 0.51 | 0.51 | 0.49 |
| 26 | Th | 0.47 | 0.48 | 0.52 | 0.60 | 0.71 | 0.83 | 0.92 | 0.97 | 0.95 | 0.87 | 0.73 | 0.54 | 0.35 | 0.19 | 0.08 | 0.04 | 0.09 | 0.20 | 0.34 | 0.46 | 0.55 | 0.60 | 0.58 | 0.51 |
| 27 | F | 0.42 | 0.35 | 0.33 | 0.35 | 0.44 | 0.57 | 0.71 | 0.82 | 0.88 | 0.89 | 0.83 | 0.69 | 0.52 | 0.35 | 0.22 | 0.16 | 0.18 | 0.27 | 0.41 | 0.55 | 0.66 | 0.72 | 0.71 | 0.62 |
| 28 | Sa | 0.48 | 0.33 | 0.22 | 0.17 | 0.19 | 0.29 | 0.43 | 0.58 | 0.70 | 0.78 | 0.80 | 0.74 | 0.62 | 0.47 | 0.35 | 0.28 | 0.28 | 0.35 | 0.49 | 0.64 | 0.77 | 0.85 | 0.86 | 0.79 |
| 29 | Su ○ | 0.62 | 0.42 | 0.22 | 0.08 | 0.02 | 0.04 | 0.14 | 0.29 | 0.44 | 0.57 | 0.66 | 0.68 | 0.63 | 0.53 | 0.43 | 0.37 | 0.36 | 0.42 | 0.54 | 0.70 | 0.85 | 0.96 | 1.00 | 0.96 |
| 30 | M | 0.81 | 0.59 | 0.34 | 0.13 | -0.03 | -0.10 | -0.08 | 0.02 | 0.17 | 0.31 | 0.44 | 0.52 | 0.54 | 0.51 | 0.45 | 0.41 | 0.41 | 0.46 | 0.57 | 0.72 | 0.88 | 1.02 | 1.09 | 1.09 |
| 31 | Tu | 0.99 | 0.79 | 0.53 | 0.27 | 0.05 | -0.11 | -0.18 | -0.16 | -0.06 | 0.07 | 0.20 | 0.32 | 0.39 | 0.41 | 0.40 | 0.39 | 0.40 | 0.46 | 0.56 | 0.70 | 0.87 | 1.02 | 1.12 | 1.16 |