

# LEGAZPI, ALBAY

2023

LAT 13° 09'N LONG 123° 45'E

## NOVEMBER

| 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 W    | -0.08 | -0.26 | -0.23 | -0.01 | 0.33 | 0.70 | 1.03 | 1.23 | 1.28 | 1.18 | 0.96 | 0.70 | 0.48 | 0.37 | 0.40 | 0.57 | 0.83 | 1.10 | 1.31 | 1.42 | 1.38 | 1.19  | 0.88  | 0.53  |
| 2 Th   | 0.19  | -0.05 | -0.14 | -0.06 | 0.16 | 0.46 | 0.77 | 1.01 | 1.14 | 1.15 | 1.03 | 0.85 | 0.65 | 0.51 | 0.46 | 0.53 | 0.69 | 0.90 | 1.10 | 1.24 | 1.27 | 1.20  | 1.01  | 0.75  |
| 3 F    | 0.46  | 0.21  | 0.05  | 0.02  | 0.11 | 0.31 | 0.55 | 0.78 | 0.95 | 1.04 | 1.02 | 0.93 | 0.79 | 0.65 | 0.57 | 0.56 | 0.63 | 0.76 | 0.90 | 1.03 | 1.11 | 1.12  | 1.04  | 0.89  |
| 4 Sa   | 0.69  | 0.47  | 0.29  | 0.19  | 0.18 | 0.25 | 0.40 | 0.57 | 0.74 | 0.88 | 0.95 | 0.94 | 0.88 | 0.79 | 0.70 | 0.64 | 0.64 | 0.68 | 0.76 | 0.84 | 0.92 | 0.97  | 0.98  | 0.93  |
| 5 Su ☾ | 0.83  | 0.69  | 0.54  | 0.40  | 0.32 | 0.29 | 0.33 | 0.43 | 0.56 | 0.70 | 0.82 | 0.90 | 0.93 | 0.90 | 0.84 | 0.77 | 0.70 | 0.67 | 0.67 | 0.69 | 0.74 | 0.80  | 0.86  | 0.90  |
| 6 M    | 0.89  | 0.84  | 0.75  | 0.62  | 0.50 | 0.40 | 0.35 | 0.35 | 0.41 | 0.53 | 0.68 | 0.82 | 0.92 | 0.97 | 0.96 | 0.91 | 0.81 | 0.72 | 0.64 | 0.59 | 0.58 | 0.62  | 0.71  | 0.80  |
| 7 Tu   | 0.88  | 0.92  | 0.90  | 0.82  | 0.70 | 0.55 | 0.42 | 0.34 | 0.32 | 0.38 | 0.52 | 0.70 | 0.88 | 1.00 | 1.06 | 1.04 | 0.95 | 0.82 | 0.67 | 0.55 | 0.47 | 0.46  | 0.53  | 0.66  |
| 8 W    | 0.80  | 0.92  | 0.99  | 0.98  | 0.89 | 0.73 | 0.55 | 0.39 | 0.29 | 0.28 | 0.38 | 0.56 | 0.79 | 0.99 | 1.12 | 1.16 | 1.10 | 0.95 | 0.75 | 0.55 | 0.40 | 0.32  | 0.35  | 0.47  |
| 9 Th   | 0.66  | 0.85  | 1.01  | 1.08  | 1.05 | 0.92 | 0.72 | 0.50 | 0.32 | 0.23 | 0.26 | 0.42 | 0.66 | 0.92 | 1.13 | 1.25 | 1.24 | 1.10 | 0.88 | 0.62 | 0.38 | 0.22  | 0.18  | 0.27  |
| 10 F   | 0.47  | 0.72  | 0.95  | 1.12  | 1.17 | 1.10 | 0.91 | 0.66 | 0.41 | 0.24 | 0.19 | 0.29 | 0.52 | 0.81 | 1.09 | 1.28 | 1.34 | 1.25 | 1.03 | 0.73 | 0.42 | 0.18  | 0.05  | 0.07  |
| 11 Sa  | 0.25  | 0.52  | 0.82  | 1.07  | 1.23 | 1.23 | 1.09 | 0.85 | 0.56 | 0.32 | 0.18 | 0.21 | 0.39 | 0.67 | 0.99 | 1.25 | 1.40 | 1.38 | 1.19 | 0.88 | 0.53 | 0.20  | -0.02 | -0.09 |
| 12 Su  | 0.03  | 0.29  | 0.62  | 0.95  | 1.20 | 1.31 | 1.25 | 1.04 | 0.75 | 0.46 | 0.24 | 0.17 | 0.28 | 0.53 | 0.86 | 1.17 | 1.39 | 1.45 | 1.34 | 1.06 | 0.68 | 0.30  | -0.02 | -0.18 |
| 13 M ☀ | -0.16 | 0.05  | 0.38  | 0.75  | 1.08 | 1.29 | 1.33 | 1.20 | 0.94 | 0.64 | 0.37 | 0.21 | 0.22 | 0.41 | 0.71 | 1.04 | 1.32 | 1.47 | 1.44 | 1.22 | 0.87 | 0.46  | 0.08  | -0.19 |
| 14 Tu  | -0.27 | -0.15 | 0.13  | 0.51  | 0.88 | 1.18 | 1.33 | 1.30 | 1.11 | 0.82 | 0.53 | 0.31 | 0.22 | 0.32 | 0.57 | 0.90 | 1.21 | 1.42 | 1.48 | 1.36 | 1.06 | 0.66  | 0.25  | -0.09 |
| 15 W   | -0.29 | -0.28 | -0.08 | 0.26  | 0.64 | 0.99 | 1.23 | 1.31 | 1.21 | 0.99 | 0.71 | 0.45 | 0.29 | 0.29 | 0.46 | 0.75 | 1.06 | 1.32 | 1.46 | 1.43 | 1.23 | 0.88  | 0.48  | 0.10  |
| 16 Th  | -0.18 | -0.30 | -0.22 | 0.04  | 0.39 | 0.74 | 1.04 | 1.22 | 1.24 | 1.10 | 0.87 | 0.62 | 0.42 | 0.33 | 0.40 | 0.61 | 0.89 | 1.16 | 1.36 | 1.42 | 1.33 | 1.09  | 0.73  | 0.35  |
| 17 F   | 0.02  | -0.19 | -0.24 | -0.10 | 0.16 | 0.49 | 0.80 | 1.04 | 1.16 | 1.14 | 1.00 | 0.79 | 0.58 | 0.44 | 0.41 | 0.51 | 0.72 | 0.97 | 1.19 | 1.32 | 1.34 | 1.21  | 0.97  | 0.64  |
| 18 Sa  | 0.31  | 0.04  | -0.12 | -0.12 | 0.02 | 0.27 | 0.55 | 0.80 | 1.00 | 1.09 | 1.06 | 0.93 | 0.76 | 0.60 | 0.50 | 0.49 | 0.60 | 0.78 | 0.98 | 1.14 | 1.24 | 1.23  | 1.11  | 0.89  |
| 19 Su  | 0.61  | 0.34  | 0.12  | 0.00  | 0.00 | 0.13 | 0.33 | 0.56 | 0.78 | 0.95 | 1.04 | 1.03 | 0.93 | 0.79 | 0.66 | 0.57 | 0.55 | 0.62 | 0.75 | 0.91 | 1.04 | 1.12  | 1.13  | 1.05  |
| 20 M ☾ | 0.88  | 0.65  | 0.43  | 0.23  | 0.12 | 0.10 | 0.19 | 0.35 | 0.55 | 0.75 | 0.93 | 1.04 | 1.05 | 0.98 | 0.86 | 0.72 | 0.61 | 0.55 | 0.57 | 0.65 | 0.77 | 0.90  | 1.01  | 1.06  |
| 21 Tu  | 1.03  | 0.92  | 0.74  | 0.54  | 0.35 | 0.22 | 0.17 | 0.21 | 0.35 | 0.54 | 0.76 | 0.96 | 1.10 | 1.13 | 1.07 | 0.94 | 0.76 | 0.59 | 0.48 | 0.44 | 0.49 | 0.61  | 0.77  | 0.93  |
| 22 W   | 1.04  | 1.07  | 1.00  | 0.85  | 0.65 | 0.44 | 0.28 | 0.19 | 0.22 | 0.35 | 0.57 | 0.82 | 1.05 | 1.21 | 1.25 | 1.16 | 0.98 | 0.74 | 0.50 | 0.33 | 0.26 | 0.30  | 0.45  | 0.67  |
| 23 Th  | 0.89  | 1.06  | 1.14  | 1.10  | 0.95 | 0.73 | 0.49 | 0.29 | 0.19 | 0.23 | 0.39 | 0.65 | 0.93 | 1.18 | 1.34 | 1.35 | 1.21 | 0.96 | 0.65 | 0.35 | 0.14 | 0.06  | 0.13  | 0.34  |
| 24 F   | 0.62  | 0.90  | 1.11  | 1.22  | 1.18 | 1.01 | 0.76 | 0.49 | 0.28 | 0.19 | 0.26 | 0.47 | 0.76 | 1.07 | 1.32 | 1.45 | 1.41 | 1.20 | 0.87 | 0.50 | 0.16 | -0.07 | -0.12 | 0.01  |
| 25 Sa  | 0.29  | 0.62  | 0.95  | 1.19  | 1.29 | 1.23 | 1.02 | 0.74 | 0.46 | 0.26 | 0.21 | 0.32 | 0.58 | 0.91 | 1.22 | 1.45 | 1.52 | 1.41 | 1.12 | 0.73 | 0.31 | -0.04 | -0.24 | -0.24 |
| 26 Su  | -0.04 | 0.29  | 0.67  | 1.02  | 1.26 | 1.34 | 1.23 | 0.99 | 0.69 | 0.42 | 0.25 | 0.25 | 0.42 | 0.71 | 1.05 | 1.34 | 1.52 | 1.53 | 1.34 | 0.98 | 0.55 | 0.12  | -0.21 | -0.35 |
| 27 M ☀ | -0.28 | -0.02 | 0.36  | 0.76  | 1.11 | 1.31 | 1.34 | 1.18 | 0.91 | 0.62 | 0.37 | 0.25 | 0.31 | 0.53 | 0.84 | 1.17 | 1.42 | 1.54 | 1.47 | 1.21 | 0.81 | 0.37  | -0.04 | -0.32 |
| 28 Tu  | -0.39 | -0.24 | 0.07  | 0.47  | 0.86 | 1.17 | 1.32 | 1.29 | 1.09 | 0.82 | 0.54 | 0.34 | 0.28 | 0.39 | 0.65 | 0.96 | 1.25 | 1.45 | 1.49 | 1.36 | 1.05 | 0.64  | 0.21  | -0.15 |
| 29 W   | -0.35 | -0.35 | -0.14 | 0.20  | 0.59 | 0.95 | 1.20 | 1.28 | 1.20 | 0.98 | 0.71 | 0.47 | 0.33 | 0.33 | 0.49 | 0.75 | 1.04 | 1.28 | 1.42 | 1.40 | 1.21 | 0.88  | 0.49  | 0.10  |
| 30 Th  | -0.18 | -0.31 | -0.23 | 0.01  | 0.35 | 0.71 | 1.01 | 1.19 | 1.21 | 1.09 | 0.87 | 0.63 | 0.43 | 0.35 | 0.41 | 0.59 | 0.84 | 1.08 | 1.27 | 1.34 | 1.27 | 1.05  | 0.73  | 0.38  |

## DECEMBER

| 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   | 0.06  | -0.15 | -0.20 | -0.08 | 0.17  | 0.49 | 0.80 | 1.03 | 1.14 | 1.12 | 0.97 | 0.77 | 0.57 | 0.43 | 0.40 | 0.49 | 0.67 | 0.89 | 1.08 | 1.21 | 1.23 | 1.12  | 0.91  | 0.62  |
| 2     | Sa  | 0.32  | 0.07  | -0.07 | -0.06 | 0.08  | 0.32 | 0.60 | 0.85 | 1.02 | 1.08 | 1.03 | 0.89 | 0.71 | 0.55 | 0.46 | 0.46 | 0.56 | 0.72 | 0.89 | 1.04 | 1.12 | 1.11  | 0.99  | 0.79  |
| 3     | Su  | 0.55  | 0.31  | 0.13  | 0.05  | 0.09  | 0.23 | 0.44 | 0.67 | 0.87 | 1.00 | 1.03 | 0.97 | 0.84 | 0.69 | 0.57 | 0.50 | 0.52 | 0.60 | 0.72 | 0.86 | 0.97 | 1.02  | 1.00  | 0.89  |
| 4     | M   | 0.73  | 0.53  | 0.34  | 0.21  | 0.16  | 0.21 | 0.34 | 0.52 | 0.72 | 0.89 | 0.99 | 1.01 | 0.95 | 0.84 | 0.71 | 0.60 | 0.54 | 0.54 | 0.59 | 0.68 | 0.79 | 0.88  | 0.93  | 0.91  |
| 5     | Tu☾ | 0.83  | 0.70  | 0.55  | 0.40  | 0.30  | 0.26 | 0.30 | 0.41 | 0.57 | 0.75 | 0.91 | 1.00 | 1.02 | 0.96 | 0.86 | 0.73 | 0.61 | 0.54 | 0.51 | 0.54 | 0.60 | 0.70  | 0.80  | 0.86  |
| 6     | W   | 0.87  | 0.82  | 0.72  | 0.60  | 0.46  | 0.36 | 0.32 | 0.35 | 0.45 | 0.61 | 0.79 | 0.95 | 1.05 | 1.06 | 1.00 | 0.89 | 0.74 | 0.59 | 0.49 | 0.43 | 0.44 | 0.51  | 0.62  | 0.74  |
| 7     | Th  | 0.84  | 0.87  | 0.85  | 0.77  | 0.65  | 0.51 | 0.40 | 0.35 | 0.37 | 0.48 | 0.65 | 0.85 | 1.02 | 1.11 | 1.12 | 1.04 | 0.89 | 0.70 | 0.52 | 0.38 | 0.31 | 0.32  | 0.42  | 0.57  |
| 8     | F   | 0.73  | 0.85  | 0.92  | 0.92  | 0.83  | 0.69 | 0.53 | 0.41 | 0.35 | 0.39 | 0.52 | 0.72 | 0.93 | 1.10 | 1.19 | 1.17 | 1.05 | 0.85 | 0.61 | 0.39 | 0.23 | 0.16  | 0.21  | 0.35  |
| 9     | Sa  | 0.55  | 0.75  | 0.92  | 1.00  | 0.99  | 0.88 | 0.71 | 0.52 | 0.38 | 0.34 | 0.40 | 0.57 | 0.80 | 1.03 | 1.20 | 1.26 | 1.20 | 1.02 | 0.75 | 0.47 | 0.22 | 0.05  | 0.02  | 0.12  |
| 10    | Su  | 0.32  | 0.58  | 0.83  | 1.01  | 1.09  | 1.05 | 0.89 | 0.69 | 0.48 | 0.35 | 0.33 | 0.44 | 0.65 | 0.91 | 1.14 | 1.29 | 1.31 | 1.19 | 0.93 | 0.61 | 0.28 | 0.02  | -0.11 | -0.09 |
| 11    | M   | 0.07  | 0.34  | 0.65  | 0.93  | 1.11  | 1.16 | 1.07 | 0.87 | 0.64 | 0.43 | 0.32 | 0.34 | 0.50 | 0.76 | 1.03 | 1.26 | 1.37 | 1.33 | 1.13 | 0.81 | 0.44 | 0.09  | -0.16 | -0.25 |
| 12    | Tu  | -0.16 | 0.08  | 0.40  | 0.75  | 1.03  | 1.19 | 1.19 | 1.05 | 0.81 | 0.56 | 0.37 | 0.30 | 0.38 | 0.60 | 0.88 | 1.16 | 1.36 | 1.43 | 1.31 | 1.04 | 0.66 | 0.26  | -0.09 | -0.30 |
| 13    | W☀  | -0.33 | -0.17 | 0.13  | 0.50  | 0.86  | 1.12 | 1.24 | 1.19 | 0.99 | 0.73 | 0.49 | 0.32 | 0.30 | 0.45 | 0.71 | 1.01 | 1.28 | 1.44 | 1.44 | 1.26 | 0.92 | 0.51  | 0.10  | -0.22 |
| 14    | Th  | -0.39 | -0.35 | -0.12 | 0.22  | 0.61  | 0.95 | 1.18 | 1.25 | 1.14 | 0.92 | 0.65 | 0.42 | 0.30 | 0.34 | 0.53 | 0.82 | 1.13 | 1.37 | 1.48 | 1.42 | 1.18 | 0.81  | 0.38  | -0.02 |
| 15    | F   | -0.30 | -0.40 | -0.30 | -0.03 | 0.34  | 0.71 | 1.03 | 1.21 | 1.22 | 1.07 | 0.83 | 0.58 | 0.38 | 0.31 | 0.39 | 0.62 | 0.92 | 1.20 | 1.40 | 1.47 | 1.36 | 1.08  | 0.70  | 0.28  |
| 16    | Sa  | -0.08 | -0.30 | -0.35 | -0.20 | 0.10  | 0.46 | 0.80 | 1.07 | 1.20 | 1.18 | 1.01 | 0.77 | 0.53 | 0.37 | 0.33 | 0.45 | 0.69 | 0.97 | 1.22 | 1.38 | 1.41 | 1.27  | 0.99  | 0.62  |
| 17    | Su  | 0.24  | -0.07 | -0.24 | -0.24 | -0.06 | 0.23 | 0.56 | 0.87 | 1.10 | 1.19 | 1.14 | 0.96 | 0.73 | 0.52 | 0.38 | 0.37 | 0.49 | 0.71 | 0.96 | 1.17 | 1.30 | 1.31  | 1.17  | 0.91  |
| 18    | M   | 0.58  | 0.25  | 0.00  | -0.13 | -0.09 | 0.08 | 0.36 | 0.66 | 0.93 | 1.12 | 1.19 | 1.12 | 0.95 | 0.73 | 0.53 | 0.40 | 0.38 | 0.49 | 0.67 | 0.89 | 1.08 | 1.19  | 1.20  | 1.08  |
| 19    | Tu  | 0.85  | 0.58  | 0.31  | 0.10  | 0.01  | 0.06 | 0.22 | 0.47 | 0.74 | 0.98 | 1.15 | 1.20 | 1.12 | 0.95 | 0.74 | 0.54 | 0.40 | 0.36 | 0.43 | 0.58 | 0.77 | 0.95  | 1.07  | 1.10  |
| 20    | W☾  | 1.01  | 0.84  | 0.62  | 0.40  | 0.23  | 0.15 | 0.19 | 0.34 | 0.57 | 0.82 | 1.04 | 1.19 | 1.23 | 1.15 | 0.98 | 0.75 | 0.53 | 0.37 | 0.30 | 0.33 | 0.46 | 0.64  | 0.82  | 0.96  |
| 21    | Th  | 1.02  | 0.98  | 0.86  | 0.69  | 0.50  | 0.35 | 0.27 | 0.30 | 0.44 | 0.65 | 0.89 | 1.10 | 1.24 | 1.27 | 1.18 | 0.99 | 0.75 | 0.49 | 0.29 | 0.19 | 0.20 | 0.32  | 0.50  | 0.71  |
| 22    | F   | 0.88  | 0.98  | 0.99  | 0.91  | 0.76  | 0.59 | 0.44 | 0.36 | 0.38 | 0.51 | 0.72 | 0.95 | 1.15 | 1.29 | 1.31 | 1.20 | 0.99 | 0.71 | 0.42 | 0.19 | 0.06 | 0.06  | 0.19  | 0.40  |
| 23    | Sa  | 0.63  | 0.84  | 0.99  | 1.03  | 0.97  | 0.83 | 0.65 | 0.49 | 0.41 | 0.43 | 0.56 | 0.77 | 1.00 | 1.21 | 1.33 | 1.34 | 1.21 | 0.95 | 0.64 | 0.32 | 0.06 | -0.07 | -0.06 | 0.10  |
| 24    | Su  | 0.34  | 0.61  | 0.86  | 1.03  | 1.09  | 1.02 | 0.86 | 0.67 | 0.51 | 0.42 | 0.45 | 0.59 | 0.81 | 1.05 | 1.26 | 1.37 | 1.35 | 1.18 | 0.89 | 0.54 | 0.19 | -0.07 | -0.19 | -0.14 |
| 25    | M   | 0.05  | 0.34  | 0.65  | 0.92  | 1.10  | 1.14 | 1.05 | 0.86 | 0.66 | 0.48 | 0.40 | 0.45 | 0.62 | 0.86 | 1.10 | 1.30 | 1.39 | 1.34 | 1.12 | 0.79 | 0.42 | 0.07  | -0.18 | -0.27 |
| 26    | Tu  | -0.18 | 0.06  | 0.39  | 0.73  | 1.00  | 1.16 | 1.17 | 1.04 | 0.83 | 0.60 | 0.43 | 0.37 | 0.46 | 0.65 | 0.91 | 1.16 | 1.34 | 1.40 | 1.29 | 1.04 | 0.68 | 0.29  | -0.06 | -0.27 |
| 27    | W☉  | -0.31 | -0.15 | 0.14  | 0.49  | 0.83  | 1.09 | 1.20 | 1.16 | 0.98 | 0.75 | 0.52 | 0.37 | 0.35 | 0.48 | 0.70 | 0.97 | 1.21 | 1.37 | 1.38 | 1.22 | 0.93 | 0.54  | 0.16  | -0.16 |
| 28    | Th  | -0.31 | -0.28 | -0.07 | 0.26  | 0.63  | 0.95 | 1.16 | 1.21 | 1.11 | 0.90 | 0.65 | 0.44 | 0.33 | 0.36 | 0.52 | 0.78 | 1.05 | 1.26 | 1.37 | 1.33 | 1.12 | 0.79  | 0.40  | 0.04  |
| 29    | F   | -0.21 | -0.30 | -0.19 | 0.07  | 0.42  | 0.77 | 1.05 | 1.19 | 1.18 | 1.02 | 0.78 | 0.54 | 0.36 | 0.31 | 0.40 | 0.60 | 0.86 | 1.11 | 1.29 | 1.34 | 1.24 | 0.99  | 0.64  | 0.27  |
| 30    | Sa  | -0.04 | -0.22 | -0.22 | -0.04 | 0.25  | 0.60 | 0.91 | 1.13 | 1.20 | 1.11 | 0.92 | 0.67 | 0.45 | 0.33 | 0.33 | 0.46 | 0.69 | 0.94 | 1.15 | 1.28 | 1.27 | 1.12  | 0.84  | 0.50  |
| 31    | Su  | 0.18  | -0.06 | -0.16 | -0.08 | 0.14  | 0.44 | 0.76 | 1.02 | 1.17 | 1.16 | 1.03 | 0.81 | 0.58 | 0.40 | 0.33 | 0.38 | 0.54 | 0.76 | 0.98 | 1.16 | 1.23 | 1.16  | 0.97  | 0.70  |