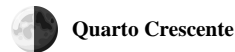
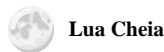
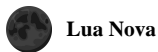


| Dia | Janeiro | Hora | Altura (m) | Fase Lunar |
|-----|---------|-------|------------|------------|
| 1 | Qua | 6:50 | 0.5 | |
| | | 13:00 | 2.78 | |
| | | 18:40 | 0.56 | |
| 2 | Qui | 1:00 | 3.19 | |
| | | 7:40 | 0.49 | |
| | | 13:50 | 2.78 | |
| | | 19:20 | 0.62 | |
| 3 | Sex | 1:40 | 3.2 | |
| | | 8:20 | 0.52 | |
| | | 14:30 | 2.77 | |
| | | 20:00 | 0.69 | |
| 4 | Sab | 2:20 | 3.18 | |
| | | 9:10 | 0.56 | |
| | | 15:10 | 2.76 | |
| | | 20:50 | 0.74 | |
| 5 | Dom | 3:10 | 3.11 | |
| | | 9:50 | 0.63 | |
| | | 16:00 | 2.75 | |
| | | 21:50 | 0.78 | |
| 6 | Seg | 4:00 | 3.0 | |
| | | 10:30 | 0.73 | |
| | | 16:50 | 2.76 | |
| | | 22:50 | 0.82 | |
| 7 | Ter | 5:10 | 2.86 | |
| | | 11:20 | 0.82 | |
| | | 17:50 | 2.78 | |
| 8 | Qua | 0:10 | 0.86 | |
| | | 6:20 | 2.74 | |
| | | 12:20 | 0.91 | |
| | | 18:50 | 2.83 | |
| 9 | Qui | 1:30 | 0.89 | |
| | | 7:40 | 2.68 | |
| | | 13:20 | 0.96 | |
| | | 19:50 | 2.9 | |
| 10 | Sex | 2:40 | 0.84 | |
| | | 8:50 | 2.7 | |
| | | 14:30 | 0.95 | |
| | | 20:50 | 2.98 | |
| 11 | Sab | 3:50 | 0.69 | |
| | | 10:00 | 2.79 | |
| | | 15:30 | 0.89 | |
| | | 22:00 | 3.09 | |
| 12 | Dom | 4:50 | 0.52 | |
| | | 11:00 | 2.89 | |
| | | 16:30 | 0.78 | |
| | | 23:00 | 3.16 | |
| 13 | Seg | 5:50 | 0.34 | |
| | | 11:50 | 2.98 | |
| | | 17:30 | 0.66 | |
| | | 23:50 | 3.21 | |
| 14 | Ter | 6:30 | 0.32 | |
| | | 12:40 | 3.02 | |
| | | 18:20 | 0.59 | |
| 15 | Qua | 0:30 | 3.21 | |
| | | 7:20 | 0.26 | |
| | | 13:30 | 3.0 | |
| | | 19:00 | 0.58 | |
| 16 | Qui | 1:20 | 3.17 | |
| | | 8:00 | 0.3 | |
| | | 14:10 | 2.94 | |
| | | 19:40 | 0.6 | |
| 17 | Sex | 1:50 | 3.1 | |
| | | 8:40 | 0.36 | |
| | | 14:50 | 2.84 | |
| | | 20:20 | 0.62 | |
| 18 | Sab | 2:30 | 3.0 | |
| | | 9:10 | 0.47 | |
| | | 15:20 | 2.74 | |
| | | 20:50 | 0.64 | |
| 19 | Dom | 3:10 | 2.87 | |
| | | 9:40 | 0.56 | |
| | | 15:50 | 2.65 | |
| | | 21:30 | 0.65 | |
| 20 | Seg | 3:50 | 2.72 | |
| | | 10:10 | 0.64 | |
| | | 16:20 | 2.6 | |
| | | 22:20 | 0.67 | |
| 21 | Ter | 4:30 | 2.56 | |
| | | 10:40 | 0.72 | |
| | | 16:50 | 2.57 | |
| | | 23:20 | 0.71 | |
| 22 | Qua | 5:20 | 2.41 | |
| | | 11:10 | 0.8 | |
| | | 17:40 | 2.57 | |
| 23 | Qui | 0:20 | 0.77 | |
| | | 6:20 | 2.29 | |
| | | 11:50 | 0.87 | |
| | | 18:30 | 2.58 | |
| 24 | Sex | 1:20 | 0.84 | |
| | | 7:30 | 2.25 | |
| | | 12:50 | 0.88 | |
| | | 19:30 | 2.61 | |
| 25 | Sab | 2:30 | 0.9 | |
| | | 8:30 | 2.28 | |
| | | 13:50 | 0.86 | |
| | | 20:30 | 2.68 | |
| 26 | Dom | 3:30 | 0.87 | |
| | | 9:40 | 2.38 | |
| | | 15:00 | 0.79 | |
| | | 21:30 | 2.79 | |
| 27 | Seg | 4:30 | 0.76 | |
| | | 10:30 | 2.52 | |
| | | 16:00 | 0.71 | |
| | | 22:30 | 2.93 | |
| 28 | Ter | 5:30 | 0.62 | |
| | | 11:20 | 2.67 | |
| | | 17:00 | 0.6 | |
| | | 23:20 | 3.07 | |
| 29 | Qua | 6:10 | 0.48 | |
| | | 12:10 | 2.8 | |
| | | 17:40 | 0.57 | |
| 30 | Qui | 0:10 | 3.2 | |
| | | 6:50 | 0.4 | |
| | | 12:50 | 2.89 | |
| | | 18:30 | 0.52 | |
| 31 | Sex | 0:50 | 3.28 | |
| | | 7:30 | 0.36 | |
| | | 13:30 | 2.95 | |
| | | 19:10 | 0.53 | |

| Dia | Fevereiro | Hora | Altura (m) | Fase Lunar |
|-----|-----------|-------|------------|------------|
| 1 | Sab | 1:30 | 3.32 | |
| | | 8:10 | 0.38 | |
| | | 14:10 | 2.98 | |
| | | 20:00 | 0.53 | |
| 2 | Dom | 2:20 | 3.29 | |
| | | 8:40 | 0.47 | |
| | | 14:50 | 3.0 | |
| | | 20:50 | 0.56 | |
| 3 | Seg | 3:00 | 3.2 | |
| | | 9:20 | 0.57 | |
| | | 15:30 | 3.0 | |
| | | 21:40 | 0.62 | |
| 4 | Ter | 3:50 | 3.05 | |
| | | 10:00 | 0.69 | |
| | | 16:10 | 2.98 | |
| | | 22:40 | 0.71 | |
| 5 | Qua | 4:50 | 2.86 | |
| | | 10:40 | 0.82 | |
| | | 17:00 | 2.92 | |
| | | 23:40 | 0.84 | |
| 6 | Qui | 5:50 | 2.68 | |
| | | 11:30 | 0.94 | |
| | | 18:00 | 2.83 | |
| 7 | Sex | 1:00 | 0.97 | |
| | | 7:10 | 2.56 | |
| | | 12:40 | 1.03 | |
| | | 19:10 | 2.77 | |
| 8 | Sab | 2:20 | 0.99 | |
| | | 8:30 | 2.55 | |
| | | 14:00 | 1.06 | |
| | | 20:30 | 2.79 | |
| 9 | Dom | 3:30 | 0.85 | |
| | | 9:40 | 2.65 | |
| | | 15:10 | 0.99 | |
| | | 21:40 | 2.88 | |
| 10 | Seg | 4:40 | 0.57 | |
| | | 10:40 | 2.79 | |
| | | 16:20 | 0.83 | |
| | | 22:50 | 3.0 | |
| 11 | Ter | 5:50 | 0.38 | |
| | | 11:40 | 2.92 | |
| | | 17:20 | 0.67 | |
| | | 23:40 | 3.12 | |
| 12 | Qua | 6:20 | 0.21 | |
| | | 12:30 | 3.01 | |
| | | 18:00 | 0.58 | |
| 13 | Qui | 0:20 | 3.19 | |
| | | 7:00 | 0.16 | |
| | | 13:10 | 3.05 | |
| | | 18:50 | 0.5 | |
| 14 | Sex | 1:00 | 3.2 | |
| | | 7:40 | 0.16 | |
| | | 13:40 | 3.04 | |
| | | 19:20 | 0.48 | |
| 15 | Sab | 1:40 | 3.15 | |
| | | 8:10 | 0.26 | |
| | | 14:10 | 2.98 | |
| | | 20:00 | 0.45 | |
| 16 | Dom | 2:10 | 3.05 | |
| | | 8:40 | 0.36 | |
| | | 14:40 | 2.9 | |
| | | 20:30 | 0.44 | |
| 17 | Seg | 2:50 | 2.91 | |
| | | 9:00 | 0.47 | |
| | | 15:00 | 2.84 | |
| | | 21:10 | 0.45 | |
| 18 | Ter | 3:20 | 2.75 | |
| | | 9:20 | 0.57 | |
| | | 15:30 | 2.8 | |
| | | 21:50 | 0.49 | |
| 19 | Qua | 4:00 | 2.58 | |
| | | 9:40 | 0.69 | |
| | | 16:00 | 2.76 | |
| | | 22:40 | 0.59 | |
| 20 | Qui | 4:40 | 2.42 | |
| | | 10:10 | 0.8 | |
| | | 16:40 | 2.71 | |
| | | 23:30 | 0.72 | |
| 21 | Sex | 5:30 | 2.28 | |
| | | 11:00 | 0.87 | |
| | | 17:30 | 2.62 | |
| | | 0:30 | 0.88 | |
| | | 6:30 | 2.2 | |
| | | 12:00 | 0.93 | |
| 22 | Sab | 0:30 | 0.88 | |
| | | 6:30 | 2.2 | |
| | | 12:00 | 0.93 | |
| | | 18:40 | 2.54 | |
| 23 | Dom | 1:40 | 1.01 | |
| | | 7:40 | 2.2 | |
| | | 13:10 | 0.94 | |
| | | 20:00 | 2.56 | |
| 24 | Seg | 3:00 | 1.01 | |
| | | 9:00 | 2.32 | |
| | | 14:30 | 0.88 | |
| | | 21:10 | 2.7 | |
| 25 | Ter | 4:10 | 0.83 | |
| | | 10:10 | 2.52 | |
| | | 15:50 | 0.75 | |
| | | 22:10 | 2.89 | |
| 26 | Qua | 5:00 | 0.61 | |
| | | 11:10 | 2.74 | |
| | | 16:40 | 0.64 | |
| | | 23:10 | 3.1 | |
| 27 | Qui | 5:50 | 0.41 | |
| | | 11:50 | 2.93 | |
| | | 17:40 | 0.49 | |
| | | 23:50 | 3.27 | |
| 28 | Sex | 6:30 | 0.3 | |
| | | 12:40 | 3.08 | |
| | | 18:20 | 0.42 | |

Simbologia das fases lunares:
 Horários no padrão local (Fuso Horário UTC - 3:00)
 Dados de nível sem Georreferenciamento



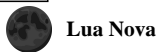
| Dia | Março | Hora | Altura (m) | Fase Lunar |
|-----|-------|-------|------------|------------|
| 1 | Sab | 0:40 | 3.38 | |
| | | 7:10 | 0.26 | |
| | | 13:10 | 3.17 | |
| | | 19:10 | 0.36 | |
| 2 | Dom | 1:20 | 3.4 | |
| | | 7:40 | 0.35 | |
| | | 13:50 | 3.22 | |
| | | 19:50 | 0.37 | |
| 3 | Seg | 2:10 | 3.34 | |
| | | 8:10 | 0.47 | |
| | | 14:20 | 3.23 | |
| | | 20:40 | 0.41 | |
| 4 | Ter | 2:50 | 3.21 | |
| | | 8:50 | 0.58 | |
| | | 15:00 | 3.2 | |
| | | 21:30 | 0.52 | |
| 5 | Qua | 3:40 | 3.02 | |
| | | 9:20 | 0.72 | |
| | | 15:40 | 3.1 | |
| | | 22:20 | 0.68 | |
| 6 | Qui | 4:30 | 2.8 | |
| | | 10:00 | 0.84 | |
| | | 16:30 | 2.94 | |
| | | 23:20 | 0.89 | |
| 7 | Sex | 5:30 | 2.6 | |
| | | 11:00 | 0.97 | |
| | | 17:30 | 2.75 | |
| 8 | Sab | 0:30 | 1.09 | |
| | | 6:40 | 2.45 | |
| | | 12:10 | 1.08 | |
| | | 18:40 | 2.61 | |
| 9 | Dom | 2:00 | 1.11 | |
| | | 8:10 | 2.44 | |
| | | 13:40 | 1.13 | |
| | | 20:10 | 2.61 | |
| 10 | Seg | 3:20 | 0.87 | |
| | | 9:30 | 2.55 | |
| | | 15:00 | 1.06 | |
| | | 21:30 | 2.72 | |
| 11 | Ter | 4:20 | 0.59 | |
| | | 10:30 | 2.74 | |
| | | 16:10 | 0.87 | |
| | | 22:30 | 2.89 | |
| 12 | Qua | 5:10 | 0.35 | |
| | | 11:20 | 2.91 | |
| | | 17:00 | 0.69 | |
| | | 23:20 | 3.05 | |
| 13 | Qui | 5:50 | 0.21 | |
| | | 12:00 | 3.05 | |
| | | 17:50 | 0.53 | |
| 14 | Sex | 0:00 | 3.15 | |
| | | 6:30 | 0.15 | |
| | | 12:40 | 3.11 | |
| | | 18:30 | 0.42 | |
| 15 | Sab | 0:40 | 3.18 | |
| | | 7:00 | 0.19 | |
| | | 13:10 | 3.13 | |
| | | 19:00 | 0.34 | |
| 16 | Dom | 1:20 | 3.14 | |
| | | 7:30 | 0.27 | |
| | | 13:30 | 3.1 | |
| | | 19:40 | 0.29 | |
| 17 | Seg | 1:50 | 3.03 | |
| | | 7:50 | 0.38 | |
| | | 13:50 | 3.05 | |
| | | 20:10 | 0.28 | |
| 18 | Ter | 2:20 | 2.89 | |
| | | 8:10 | 0.47 | |
| | | 14:10 | 3.01 | |
| | | 20:40 | 0.32 | |
| 19 | Qua | 2:50 | 2.73 | |
| | | 8:30 | 0.57 | |
| | | 14:40 | 2.98 | |
| | | 21:20 | 0.43 | |
| 20 | Qui | 3:20 | 2.59 | |
| | | 8:50 | 0.69 | |
| | | 15:10 | 2.93 | |
| | | 22:00 | 0.58 | |
| 21 | Sex | 4:00 | 2.45 | |
| | | 9:30 | 0.78 | |
| | | 16:00 | 2.8 | |
| | | 22:40 | 0.75 | |
| 22 | Sab | 4:40 | 2.33 | |
| | | 10:20 | 0.88 | |
| | | 16:50 | 2.65 | |
| | | 23:40 | 0.93 | |
| 23 | Dom | 5:40 | 2.22 | |
| | | 11:20 | 0.99 | |
| | | 18:00 | 2.52 | |
| 24 | Seg | 1:00 | 1.06 | |
| | | 7:10 | 2.19 | |
| | | 12:50 | 0.99 | |
| | | 19:30 | 2.52 | |
| 25 | Ter | 2:30 | 1.03 | |
| | | 8:40 | 2.34 | |
| | | 14:20 | 0.93 | |
| | | 20:50 | 2.68 | |
| 26 | Qua | 3:40 | 0.81 | |
| | | 9:50 | 2.6 | |
| | | 15:50 | 0.8 | |
| | | 21:50 | 2.91 | |
| 27 | Qui | 4:30 | 0.58 | |
| | | 10:40 | 2.86 | |
| | | 16:30 | 0.61 | |
| | | 22:50 | 3.14 | |
| 28 | Sex | 5:20 | 0.38 | |
| | | 11:30 | 3.1 | |
| | | 17:30 | 0.41 | |
| | | 23:40 | 3.31 | |
| 29 | Sab | 6:00 | 0.3 | |
| | | 12:10 | 3.27 | |
| | | 18:10 | 0.3 | |
| 30 | Dom | 0:30 | 3.4 | |
| | | 6:30 | 0.34 | |
| | | 12:40 | 3.36 | |
| | | 19:00 | 0.23 | |
| 31 | Seg | 1:10 | 3.39 | |
| | | 7:10 | 0.4 | |
| | | 13:20 | 3.4 | |
| | | 19:40 | 0.26 | |

| Dia | Abril | Hora | Altura (m) | Fase Lunar |
|-----|-------|-------|------------|------------|
| 1 | Ter | 2:00 | 3.29 | |
| | | 7:40 | 0.52 | |
| | | 13:50 | 3.37 | |
| | | 20:30 | 0.35 | |
| 2 | Qua | 2:40 | 3.14 | |
| | | 8:20 | 0.63 | |
| | | 14:30 | 3.27 | |
| | | 21:10 | 0.53 | |
| 3 | Qui | 3:20 | 2.94 | |
| | | 8:50 | 0.75 | |
| | | 15:10 | 3.11 | |
| | | 22:00 | 0.75 | |
| 4 | Sex | 4:10 | 2.73 | |
| | | 9:40 | 0.87 | |
| | | 16:00 | 2.88 | |
| | | 23:00 | 0.97 | |
| 5 | Sab | 5:10 | 2.52 | |
| | | 10:30 | 1.0 | |
| | | 17:00 | 2.65 | |
| 6 | Dom | 0:10 | 1.14 | |
| | | 6:20 | 2.39 | |
| | | 11:50 | 1.11 | |
| | | 18:20 | 2.5 | |
| 7 | Seg | 1:30 | 1.13 | |
| | | 7:50 | 2.39 | |
| | | 13:20 | 1.18 | |
| | | 19:50 | 2.5 | |
| 8 | Ter | 2:50 | 0.88 | |
| | | 9:10 | 2.52 | |
| | | 14:40 | 1.11 | |
| | | 21:00 | 2.62 | |
| 9 | Qua | 3:50 | 0.61 | |
| | | 10:10 | 2.7 | |
| | | 15:50 | 0.92 | |
| | | 22:00 | 2.8 | |
| 10 | Qui | 4:40 | 0.4 | |
| | | 10:50 | 2.9 | |
| | | 16:40 | 0.7 | |
| | | 22:50 | 2.95 | |
| 11 | Sex | 5:20 | 0.28 | |
| | | 11:30 | 3.05 | |
| | | 17:30 | 0.5 | |
| | | 23:40 | 3.05 | |
| 12 | Sab | 5:50 | 0.28 | |
| | | 12:00 | 3.14 | |
| | | 18:10 | 0.34 | |
| 13 | Dom | 0:20 | 3.07 | |
| | | 6:20 | 0.31 | |
| | | 12:20 | 3.18 | |
| | | 18:40 | 0.25 | |
| 14 | Seg | 0:50 | 3.03 | |
| | | 6:40 | 0.37 | |
| | | 12:50 | 3.18 | |
| | | 19:20 | 0.21 | |
| 15 | Ter | 1:30 | 2.93 | |
| | | 7:00 | 0.44 | |
| | | 13:10 | 3.15 | |
| | | 19:50 | 0.24 | |
| 16 | Qua | 2:00 | 2.81 | |
| | | 7:30 | 0.49 | |
| | | 13:40 | 3.12 | |
| | | 20:20 | 0.33 | |
| 17 | Qui | 2:20 | 2.7 | |
| | | 7:50 | 0.59 | |
| | | 14:10 | 3.07 | |
| | | 20:50 | 0.47 | |
| 18 | Sex | 2:50 | 2.6 | |
| | | 8:20 | 0.67 | |
| | | 14:50 | 2.97 | |
| | | 21:30 | 0.63 | |
| 19 | Sab | 3:30 | 2.49 | |
| | | 9:00 | 0.78 | |
| | | 15:30 | 2.85 | |
| | | 22:10 | 0.8 | |
| 20 | Dom | 4:20 | 2.38 | |
| | | 9:50 | 0.91 | |
| | | 16:20 | 2.69 | |
| | | 23:10 | 0.95 | |
| 21 | Seg | 5:20 | 2.28 | |
| | | 11:00 | 1.02 | |
| | | 17:30 | 2.56 | |
| | | 24:00 | 1.02 | |
| 22 | Ter | 0:30 | 2.27 | |
| | | 6:50 | 2.27 | |
| | | 12:30 | 1.02 | |
| | | 18:50 | 2.56 | |
| 23 | Qua | 1:50 | 0.97 | |
| | | 8:20 | 2.45 | |
| | | 14:00 | 0.95 | |
| | | 20:20 | 2.71 | |
| 24 | Qui | 3:00 | 0.79 | |
| | | 9:20 | 2.71 | |
| | | 15:20 | 0.79 | |
| | | 21:30 | 2.92 | |
| 25 | Sex | 3:50 | 0.62 | |
| | | 10:10 | 2.98 | |
| | | 16:20 | 0.57 | |
| | | 22:30 | 3.12 | |
| 26 | Sab | 4:40 | 0.48 | |
| | | 11:00 | 3.22 | |
| | | 17:10 | 0.37 | |
| | | 23:20 | 3.27 | |
| 27 | Dom | 5:20 | 0.44 | |
| | | 11:30 | 3.37 | |
| | | 18:00 | 0.23 | |
| 28 | Seg | 0:10 | 3.33 | |
| | | 6:00 | 0.46 | |
| | | 12:10 | 3.46 | |
| | | 18:50 | 0.18 | |
| 29 | Ter | 1:00 | 3.3 | |
| | | 6:40 | 0.51 | |
| | | 12:50 | 3.46 | |
| | | 19:30 | 0.26 | |
| 30 | Qua | 1:40 | 3.2 | |
| | | 7:20 | 0.58 | |
| | | 13:30 | 3.38 | |
| | | 20:10 | 0.42 | |

Simbologia das fases lunares:

Horários no padrão local (Fuso Horário UTC -3:00)

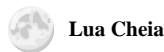
Dados de nível sem Georreferenciamento



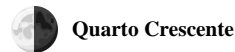
Lua Nova



Quarto Minguante



Lua Cheia

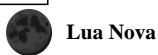


Quarto Crescente

| Dia | Maio | Hora | Altura (m) | Fase Lunar |
|-----|------|-------|------------|------------|
| 1 | Qui | 2:30 | 3.04 | |
| | | 7:50 | 0.68 | |
| | | 14:10 | 3.23 | |
| | | 21:00 | 0.6 | |
| 2 | Sex | 3:10 | 2.85 | |
| | | 8:40 | 0.77 | |
| | | 14:50 | 3.03 | |
| | | 21:50 | 0.8 | |
| 3 | Sab | 3:50 | 2.66 | |
| | | 9:20 | 0.89 | |
| | | 15:40 | 2.81 | |
| | | 22:40 | 0.98 | |
| 4 | Dom | 4:50 | 2.49 | |
| | | 10:20 | 1.0 | |
| | | 16:40 | 2.6 | |
| | | 23:50 | 1.07 | |
| 5 | Seg | 6:10 | 2.39 | |
| | | 11:30 | 1.1 | |
| | | 17:50 | 2.47 | |
| 6 | Ter | 1:00 | 1.04 | |
| | | 7:30 | 2.39 | |
| | | 13:00 | 1.18 | |
| | | 19:10 | 2.46 | |
| 7 | Qua | 2:10 | 0.89 | |
| | | 8:40 | 2.5 | |
| | | 14:20 | 1.13 | |
| | | 20:20 | 2.54 | |
| 8 | Qui | 3:00 | 0.75 | |
| | | 9:30 | 2.67 | |
| | | 15:20 | 0.95 | |
| | | 21:30 | 2.67 | |
| 9 | Sex | 3:50 | 0.6 | |
| | | 10:00 | 2.85 | |
| | | 16:10 | 0.73 | |
| | | 22:20 | 2.79 | |
| 10 | Sab | 4:30 | 0.52 | |
| | | 10:40 | 3.0 | |
| | | 17:00 | 0.51 | |
| | | 23:10 | 2.87 | |
| 11 | Dom | 5:00 | 0.49 | |
| | | 11:10 | 3.1 | |
| | | 17:40 | 0.35 | |
| | | 23:50 | 2.9 | |
| 12 | Seg | 5:30 | 0.48 | |
| | | 11:40 | 3.16 | |
| | | 18:20 | 0.27 | |
| 13 | Ter | 6:30 | 2.87 | |
| | | 12:10 | 0.47 | |
| | | 18:50 | 3.18 | |
| 14 | Qua | 1:00 | 2.81 | |
| | | 6:20 | 0.51 | |
| | | 12:40 | 3.17 | |
| | | 19:20 | 0.32 | |
| 15 | Qui | 1:30 | 2.74 | |
| | | 6:50 | 0.54 | |
| | | 13:10 | 3.13 | |
| | | 20:00 | 0.42 | |
| 16 | Sex | 2:00 | 2.66 | |
| | | 7:30 | 0.58 | |
| | | 13:50 | 3.07 | |
| | | 20:30 | 0.55 | |
| 17 | Sab | 2:30 | 2.6 | |
| | | 8:00 | 0.68 | |
| | | 14:30 | 2.99 | |
| | | 21:10 | 0.68 | |
| 18 | Dom | 3:10 | 2.53 | |
| | | 8:50 | 0.78 | |
| | | 15:10 | 2.9 | |
| | | 22:00 | 0.79 | |
| 19 | Seg | 4:00 | 2.45 | |
| | | 9:40 | 0.91 | |
| | | 16:00 | 2.78 | |
| | | 22:50 | 0.87 | |
| 20 | Ter | 5:10 | 2.38 | |
| | | 10:40 | 1.01 | |
| | | 17:10 | 2.68 | |
| 21 | Qua | 0:00 | 0.9 | |
| | | 6:30 | 2.42 | |
| | | 12:10 | 0.99 | |
| | | 18:30 | 2.66 | |
| 22 | Qui | 1:10 | 0.88 | |
| | | 7:40 | 2.58 | |
| | | 13:40 | 0.93 | |
| | | 19:50 | 2.75 | |
| 23 | Sex | 2:20 | 0.79 | |
| | | 8:40 | 2.81 | |
| | | 14:50 | 0.79 | |
| | | 21:00 | 2.88 | |
| 24 | Sab | 3:10 | 0.72 | |
| | | 9:30 | 3.04 | |
| | | 16:00 | 0.57 | |
| | | 22:10 | 3.03 | |
| 25 | Dom | 4:00 | 0.66 | |
| | | 10:20 | 3.24 | |
| | | 17:00 | 0.37 | |
| | | 23:10 | 3.13 | |
| 26 | Seg | 4:50 | 0.6 | |
| | | 11:00 | 3.37 | |
| | | 17:50 | 0.25 | |
| 27 | Ter | 6:00 | 3.18 | |
| | | 11:50 | 0.46 | |
| | | 18:30 | 3.44 | |
| | | 23:30 | 0.27 | |
| 28 | Qua | 0:50 | 3.16 | |
| | | 6:20 | 0.58 | |
| | | 12:30 | 3.41 | |
| | | 19:20 | 0.32 | |
| 29 | Qui | 1:30 | 3.09 | |
| | | 7:00 | 0.63 | |
| | | 13:20 | 3.31 | |
| | | 20:10 | 0.44 | |
| 30 | Sex | 2:10 | 2.97 | |
| | | 7:40 | 0.69 | |
| | | 14:00 | 3.16 | |
| | | 20:50 | 0.61 | |
| 31 | Sab | 3:00 | 2.82 | |
| | | 8:30 | 0.76 | |
| | | 14:40 | 2.98 | |
| | | 21:40 | 0.74 | |

| Dia | Junho | Hora | Altura (m) | Fase Lunar |
|-----|-------|-------|------------|------------|
| 1 | Dom | 3:50 | 2.66 | |
| | | 9:10 | 0.86 | |
| | | 15:30 | 2.81 | |
| | | 22:30 | 0.84 | |
| 2 | Seg | 4:40 | 2.53 | |
| | | 10:00 | 0.95 | |
| | | 16:20 | 2.64 | |
| | | 23:20 | 0.9 | |
| 3 | Ter | 5:40 | 2.45 | |
| | | 11:10 | 1.02 | |
| | | 17:20 | 2.53 | |
| 4 | Qua | 6:20 | 0.91 | |
| | | 12:20 | 1.07 | |
| | | 18:20 | 2.46 | |
| 5 | Qui | 1:10 | 0.89 | |
| | | 7:40 | 2.51 | |
| | | 13:40 | 1.08 | |
| | | 19:40 | 2.47 | |
| 6 | Sex | 2:00 | 0.85 | |
| | | 8:30 | 2.62 | |
| | | 14:40 | 0.96 | |
| | | 20:50 | 2.51 | |
| 7 | Sab | 2:50 | 0.8 | |
| | | 9:10 | 2.75 | |
| | | 15:40 | 0.78 | |
| | | 21:50 | 2.58 | |
| 8 | Dom | 3:30 | 0.74 | |
| | | 9:40 | 2.88 | |
| | | 16:30 | 0.6 | |
| | | 22:40 | 2.65 | |
| 9 | Seg | 4:10 | 0.67 | |
| | | 10:20 | 2.99 | |
| | | 17:10 | 0.47 | |
| | | 23:20 | 2.69 | |
| 10 | Ter | 4:40 | 0.61 | |
| | | 11:00 | 3.07 | |
| | | 17:50 | 0.4 | |
| 11 | Qua | 6:00 | 2.71 | |
| | | 12:40 | 0.55 | |
| | | 19:40 | 3.11 | |
| | | 23:30 | 0.4 | |
| 12 | Qui | 6:30 | 2.71 | |
| | | 13:20 | 0.52 | |
| | | 19:20 | 3.13 | |
| | | 23:10 | 0.43 | |
| 13 | Sex | 7:10 | 2.69 | |
| | | 13:00 | 0.55 | |
| | | 19:40 | 3.11 | |
| | | 23:30 | 0.5 | |
| 14 | Sab | 1:40 | 2.67 | |
| | | 7:10 | 0.6 | |
| | | 13:30 | 3.09 | |
| | | 20:20 | 0.56 | |
| 15 | Dom | 2:20 | 2.64 | |
| | | 7:50 | 0.68 | |
| | | 14:10 | 3.06 | |
| | | 21:00 | 0.62 | |
| 16 | Seg | 3:00 | 2.62 | |
| | | 8:40 | 0.76 | |
| | | 15:00 | 2.99 | |
| | | 21:40 | 0.68 | |
| 17 | Ter | 4:00 | 2.58 | |
| | | 9:30 | 0.85 | |
| | | 15:50 | 2.91 | |
| | | 22:30 | 0.73 | |
| 18 | Qua | 4:50 | 2.58 | |
| | | 10:30 | 0.91 | |
| | | 16:50 | 2.82 | |
| | | 23:30 | 0.78 | |
| 19 | Qui | 5:50 | 2.62 | |
| | | 11:50 | 0.9 | |
| | | 18:00 | 2.75 | |
| 20 | Sex | 6:50 | 0.83 | |
| | | 13:10 | 2.71 | |
| | | 19:20 | 0.88 | |
| | | 23:10 | 2.74 | |
| 21 | Sab | 1:30 | 0.86 | |
| | | 7:50 | 2.85 | |
| | | 14:30 | 0.8 | |
| | | 20:40 | 2.78 | |
| 22 | Dom | 2:30 | 0.86 | |
| | | 8:50 | 3.01 | |
| | | 15:40 | 0.65 | |
| | | 21:50 | 2.87 | |
| 23 | Seg | 3:30 | 0.81 | |
| | | 9:50 | 3.16 | |
| | | 16:40 | 0.48 | |
| | | 22:50 | 2.97 | |
| 24 | Ter | 4:20 | 0.76 | |
| | | 10:40 | 3.27 | |
| | | 17:30 | 0.39 | |
| | | 23:40 | 3.04 | |
| 25 | Qua | 5:10 | 0.69 | |
| | | 11:50 | 3.32 | |
| | | 18:20 | 0.34 | |
| 26 | Qui | 6:00 | 3.07 | |
| | | 12:20 | 0.64 | |
| | | 18:20 | 3.32 | |
| 27 | Sex | 1:20 | 3.04 | |
| | | 7:50 | 0.61 | |
| | | 13:10 | 3.26 | |
| | | 20:00 | 0.38 | |
| 28 | Sab | 2:00 | 2.97 | |
| | | 7:30 | 0.65 | |
| | | 13:50 | 3.15 | |
| | | 20:40 | 0.48 | |
| 29 | Dom | 2:50 | 2.87 | |
| | | 8:20 | 0.69 | |
| | | 14:30 | 3.02 | |
| | | 21:20 | 0.57 | |
| 30 | Seg | 3:30 | 2.76 | |
| | | 9:00 | 0.76 | |
| | | 15:10 | 2.88 | |
| | | 22:00 | 0.65 | |

Simbologia das fases lunares:
 Horários no padrão local (Fuso Horário UTC -3:00)
 Dados de nível sem Georreferenciamento



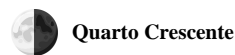
Lua Nova



Quarto Minguante



Lua Cheia



Quarto Crescente

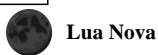
| Dia | Julho | Hora | Altura (m) | Fase Lunar |
|-----|-------|-------|------------|------------|
| 1 | Ter | 4:20 | 2.65 | |
| | | 9:50 | 0.82 | |
| | | 16:00 | 2.74 | |
| | | 22:40 | 0.72 | |
| 2 | Qua | 5:00 | 2.56 | |
| | | 10:40 | 0.86 | |
| | | 16:40 | 2.59 | |
| | | 23:20 | 0.78 | |
| 3 | Qui | 5:40 | 2.52 | |
| | | 11:40 | 0.89 | |
| | | 17:40 | 2.47 | |
| 4 | Sex | 0:10 | 0.83 | |
| | | 6:30 | 2.52 | |
| | | 12:50 | 0.93 | |
| | | 18:50 | 2.38 | |
| 5 | Sab | 0:50 | 0.86 | |
| | | 7:10 | 2.55 | |
| | | 13:50 | 0.91 | |
| | | 20:00 | 2.35 | |
| 6 | Dom | 1:40 | 0.87 | |
| | | 8:00 | 2.63 | |
| | | 15:00 | 0.87 | |
| | | 21:10 | 2.37 | |
| 7 | Seg | 2:30 | 0.84 | |
| | | 8:50 | 2.73 | |
| | | 15:50 | 0.76 | |
| | | 22:00 | 2.44 | |
| 8 | Ter | 3:20 | 0.78 | |
| | | 9:40 | 2.84 | |
| | | 16:40 | 0.66 | |
| | | 22:50 | 2.52 | |
| 9 | Qua | 4:10 | 0.68 | |
| | | 10:30 | 2.94 | |
| | | 17:30 | 0.57 | |
| | | 23:30 | 2.6 | |
| 10 | Qui | 4:50 | 0.61 | |
| | | 11:20 | 3.03 | |
| | | 18:10 | 0.52 | |
| 11 | Sex | 0:10 | 2.68 | |
| | | 5:40 | 0.54 | |
| | | 12:10 | 3.1 | |
| | | 18:50 | 0.48 | |
| 12 | Sab | 0:50 | 2.73 | |
| | | 6:30 | 0.53 | |
| | | 12:50 | 3.14 | |
| | | 19:30 | 0.46 | |
| 13 | Dom | 1:30 | 2.77 | |
| | | 7:00 | 0.57 | |
| | | 13:20 | 3.17 | |
| | | 20:00 | 0.48 | |
| 14 | Seg | 2:10 | 2.79 | |
| | | 7:50 | 0.59 | |
| | | 14:00 | 3.17 | |
| | | 20:40 | 0.5 | |
| 15 | Ter | 2:50 | 2.8 | |
| | | 8:30 | 0.66 | |
| | | 14:50 | 3.13 | |
| | | 21:20 | 0.55 | |
| 16 | Qua | 3:30 | 2.82 | |
| | | 9:20 | 0.71 | |
| | | 15:40 | 3.04 | |
| | | 22:00 | 0.64 | |
| 17 | Qui | 4:20 | 2.82 | |
| | | 10:20 | 0.75 | |
| | | 16:30 | 2.91 | |
| | | 22:50 | 0.74 | |
| 18 | Sex | 5:10 | 2.82 | |
| | | 11:30 | 0.8 | |
| | | 17:40 | 2.78 | |
| | | 23:40 | 0.85 | |
| 19 | Sab | 6:00 | 2.83 | |
| | | 12:40 | 0.86 | |
| | | 18:50 | 2.68 | |
| 20 | Dom | 0:40 | 0.95 | |
| | | 7:10 | 2.84 | |
| | | 14:00 | 0.9 | |
| | | 20:20 | 2.64 | |
| 21 | Seg | 1:50 | 0.99 | |
| | | 8:20 | 2.91 | |
| | | 15:20 | 0.8 | |
| | | 21:30 | 2.71 | |
| 22 | Ter | 3:00 | 0.96 | |
| | | 9:20 | 3.0 | |
| | | 16:20 | 0.64 | |
| | | 22:30 | 2.82 | |
| 23 | Qua | 4:00 | 0.86 | |
| | | 10:30 | 3.12 | |
| | | 17:20 | 0.45 | |
| | | 23:30 | 2.94 | |
| 24 | Qui | 5:00 | 0.72 | |
| | | 11:30 | 3.21 | |
| | | 18:20 | 0.26 | |
| 25 | Sex | 0:20 | 3.03 | |
| | | 5:50 | 0.62 | |
| | | 12:20 | 3.26 | |
| | | 19:00 | 0.24 | |
| 26 | Sab | 1:00 | 3.07 | |
| | | 6:40 | 0.56 | |
| | | 13:00 | 3.25 | |
| | | 19:40 | 0.25 | |
| 27 | Dom | 1:50 | 3.05 | |
| | | 7:30 | 0.54 | |
| | | 13:40 | 3.2 | |
| | | 20:20 | 0.3 | |
| 28 | Seg | 2:30 | 2.99 | |
| | | 8:10 | 0.57 | |
| | | 14:20 | 3.1 | |
| | | 21:00 | 0.38 | |
| 29 | Ter | 3:10 | 2.89 | |
| | | 8:50 | 0.61 | |
| | | 14:50 | 2.96 | |
| | | 21:30 | 0.49 | |
| 30 | Qua | 3:40 | 2.79 | |
| | | 9:30 | 0.64 | |
| | | 15:30 | 2.8 | |
| | | 22:00 | 0.59 | |
| 31 | Qui | 4:10 | 2.7 | |
| | | 10:10 | 0.66 | |
| | | 16:10 | 2.63 | |
| | | 22:20 | 0.69 | |

| Dia | Agosto | Hora | Altura (m) | Fase Lunar |
|-----|--------|-------|------------|------------|
| 1 | Sex | 4:40 | 2.63 | |
| | | 11:00 | 0.7 | |
| | | 17:00 | 2.46 | |
| | | 23:00 | 0.78 | |
| 2 | Sab | 5:10 | 2.58 | |
| | | 11:50 | 0.76 | |
| | | 18:00 | 2.31 | |
| | | 23:30 | 0.88 | |
| 3 | Dom | 6:00 | 2.55 | |
| | | 13:00 | 0.87 | |
| | | 19:10 | 2.22 | |
| 4 | Seg | 0:20 | 0.93 | |
| | | 7:00 | 2.54 | |
| | | 14:10 | 0.96 | |
| | | 20:10 | 2.2 | |
| 5 | Ter | 1:30 | 0.91 | |
| | | 8:10 | 2.59 | |
| | | 15:20 | 0.95 | |
| | | 21:20 | 2.28 | |
| 6 | Qua | 2:40 | 0.85 | |
| | | 9:10 | 2.69 | |
| | | 16:20 | 0.83 | |
| | | 22:10 | 2.41 | |
| 7 | Qui | 3:40 | 0.75 | |
| | | 10:10 | 2.83 | |
| | | 17:10 | 0.67 | |
| | | 23:10 | 2.58 | |
| 8 | Sex | 4:40 | 0.62 | |
| | | 11:10 | 2.99 | |
| | | 17:50 | 0.53 | |
| | | 23:50 | 2.73 | |
| 9 | Sab | 5:30 | 0.53 | |
| | | 11:50 | 3.12 | |
| | | 18:30 | 0.42 | |
| | | 0:30 | 2.86 | |
| 10 | Dom | 6:10 | 0.49 | |
| | | 12:30 | 3.23 | |
| | | 19:10 | 0.34 | |
| 11 | Seg | 7:00 | 2.95 | |
| | | 13:10 | 0.44 | |
| | | 19:40 | 0.36 | |
| 12 | Ter | 7:50 | 3.02 | |
| | | 14:50 | 0.46 | |
| | | 21:30 | 3.29 | |
| 13 | Qua | 8:20 | 0.39 | |
| | | 14:40 | 3.05 | |
| | | 21:50 | 0.5 | |
| 14 | Qui | 9:10 | 3.07 | |
| | | 15:20 | 0.54 | |
| | | 22:00 | 3.11 | |
| 15 | Sex | 10:10 | 0.62 | |
| | | 16:20 | 3.06 | |
| | | 23:10 | 0.62 | |
| 16 | Sab | 11:10 | 2.93 | |
| | | 17:20 | 0.75 | |
| | | 23:30 | 2.98 | |
| 17 | Dom | 12:20 | 0.76 | |
| | | 18:30 | 2.74 | |
| | | 24:30 | 0.89 | |
| 18 | Seg | 1:20 | 2.88 | |
| | | 7:30 | 0.93 | |
| | | 13:40 | 2.58 | |
| | | 19:50 | 1.01 | |
| 19 | Ter | 2:30 | 2.77 | |
| | | 8:40 | 1.04 | |
| | | 14:50 | 2.51 | |
| | | 21:00 | 1.08 | |
| 20 | Qua | 3:40 | 2.74 | |
| | | 9:50 | 0.95 | |
| | | 16:00 | 2.58 | |
| | | 22:10 | 1.05 | |
| 21 | Qui | 4:50 | 2.83 | |
| | | 10:20 | 0.69 | |
| | | 16:30 | 2.73 | |
| | | 22:40 | 0.9 | |
| 22 | Sex | 5:50 | 2.98 | |
| | | 11:20 | 0.42 | |
| | | 17:10 | 2.91 | |
| | | 23:10 | 0.72 | |
| 23 | Sab | 6:50 | 3.12 | |
| | | 12:00 | 0.22 | |
| | | 18:00 | 3.06 | |
| | | 24:00 | 0.55 | |
| 24 | Dom | 7:50 | 3.22 | |
| | | 13:00 | 0.14 | |
| | | 19:00 | 3.14 | |
| | | 25:00 | 0.48 | |
| 25 | Seg | 8:50 | 3.26 | |
| | | 14:00 | 0.12 | |
| | | 20:00 | 3.16 | |
| | | 26:00 | 0.44 | |
| 26 | Ter | 9:50 | 3.22 | |
| | | 15:00 | 0.21 | |
| | | 21:00 | 3.12 | |
| | | 27:00 | 0.43 | |
| 27 | Qua | 10:50 | 3.13 | |
| | | 16:00 | 0.32 | |
| | | 22:00 | 3.03 | |
| 28 | Qui | 11:50 | 0.43 | |
| | | 17:00 | 2.99 | |
| | | 23:00 | 0.45 | |
| 29 | Sex | 12:50 | 2.93 | |
| | | 18:00 | 0.44 | |
| | | 24:00 | 2.82 | |
| | | 30:00 | 0.55 | |
| 30 | Sab | 1:50 | 2.84 | |
| | | 7:00 | 0.49 | |
| | | 13:00 | 2.62 | |
| | | 19:00 | 0.67 | |
| 31 | Dom | 2:50 | 2.78 | |
| | | 8:00 | 0.57 | |
| | | 14:00 | 2.44 | |
| | | 20:00 | 0.79 | |
| | | 26:00 | 2.7 | |
| | | 32:00 | 0.71 | |
| | | 38:00 | 2.28 | |
| | | 44:00 | 0.91 | |

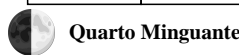
Simbologia das fases lunares:

Horários no padrão local (Fuso Horário UTC -3:00)

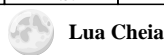
Dados de nível sem Georreferenciamento



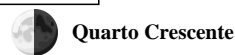
Lua Nova



Quarto Minguante



Lua Cheia

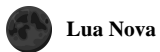


Quarto Crescente

| Dia | Setembro | Hora | Altura (m) | Fase Lunar |
|-----|----------|-------|------------|------------|
| 1 | Seg | 5:00 | 2.6 | |
| | | 12:10 | 0.88 | |
| | | 18:10 | 2.15 | |
| | | 23:30 | 0.97 | |
| 2 | Ter | 6:10 | 2.49 | |
| | | 13:20 | 1.03 | |
| | | 19:20 | 2.12 | |
| 3 | Qua | 0:40 | 0.98 | |
| | | 7:30 | 2.48 | |
| | | 14:40 | 1.07 | |
| | | 20:40 | 2.21 | |
| 4 | Qui | 2:10 | 0.9 | |
| | | 8:50 | 2.59 | |
| | | 15:50 | 0.91 | |
| | | 21:50 | 2.41 | |
| 5 | Sex | 3:20 | 0.8 | |
| | | 9:50 | 2.78 | |
| | | 16:40 | 0.69 | |
| | | 22:40 | 2.65 | |
| 6 | Sab | 4:20 | 0.65 | |
| | | 10:50 | 2.99 | |
| | | 17:20 | 0.5 | |
| | | 23:30 | 2.87 | |
| 7 | Dom | 5:20 | 0.49 | |
| | | 11:30 | 3.17 | |
| | | 18:00 | 0.35 | |
| 8 | Seg | 0:10 | 3.05 | |
| | | 6:00 | 0.4 | |
| | | 12:20 | 3.31 | |
| | | 18:40 | 0.28 | |
| 9 | Ter | 0:50 | 3.18 | |
| | | 6:50 | 0.32 | |
| | | 13:00 | 3.36 | |
| | | 19:20 | 0.29 | |
| 10 | Qua | 1:20 | 3.24 | |
| | | 7:30 | 0.31 | |
| | | 13:40 | 3.34 | |
| | | 19:50 | 0.4 | |
| 11 | Qui | 2:00 | 3.27 | |
| | | 8:10 | 0.36 | |
| | | 14:30 | 3.24 | |
| | | 20:20 | 0.53 | |
| 12 | Sex | 2:30 | 3.26 | |
| | | 9:00 | 0.44 | |
| | | 15:10 | 3.09 | |
| | | 21:00 | 0.66 | |
| 13 | Sab | 3:10 | 3.19 | |
| | | 9:50 | 0.6 | |
| | | 16:00 | 2.88 | |
| | | 21:40 | 0.79 | |
| 14 | Dom | 3:50 | 3.05 | |
| | | 10:40 | 0.8 | |
| | | 17:00 | 2.66 | |
| | | 22:20 | 0.93 | |
| 15 | Seg | 4:50 | 2.84 | |
| | | 11:50 | 1.03 | |
| | | 18:00 | 2.48 | |
| | | 23:30 | 1.05 | |
| 16 | Ter | 6:00 | 2.66 | |
| | | 13:20 | 1.15 | |
| | | 19:30 | 2.42 | |
| 17 | Qua | 0:50 | 1.13 | |
| | | 7:30 | 2.6 | |
| | | 14:40 | 1.0 | |
| | | 20:50 | 2.52 | |
| 18 | Qui | 2:30 | 1.1 | |
| | | 9:00 | 2.7 | |
| | | 15:50 | 0.7 | |
| | | 22:00 | 2.71 | |
| 19 | Sex | 3:40 | 0.93 | |
| | | 10:10 | 2.87 | |
| | | 16:50 | 0.39 | |
| | | 23:00 | 2.92 | |
| 20 | Sab | 4:40 | 0.72 | |
| | | 11:00 | 3.04 | |
| | | 17:30 | 0.23 | |
| | | 23:40 | 3.1 | |
| 21 | Dom | 5:30 | 0.54 | |
| | | 11:40 | 3.16 | |
| | | 18:10 | 0.14 | |
| 22 | Seg | 0:20 | 3.2 | |
| | | 6:20 | 0.39 | |
| | | 12:20 | 3.21 | |
| | | 18:40 | 0.18 | |
| 23 | Ter | 0:50 | 3.24 | |
| | | 6:50 | 0.34 | |
| | | 13:00 | 3.18 | |
| | | 19:10 | 0.26 | |
| 24 | Qua | 1:20 | 3.2 | |
| | | 7:30 | 0.29 | |
| | | 13:40 | 3.09 | |
| | | 19:40 | 0.35 | |
| 25 | Qui | 1:40 | 3.12 | |
| | | 8:00 | 0.29 | |
| | | 14:10 | 2.94 | |
| | | 20:00 | 0.47 | |
| 26 | Sex | 2:00 | 3.04 | |
| | | 8:30 | 0.32 | |
| | | 14:50 | 2.76 | |
| | | 20:20 | 0.57 | |
| 27 | Sab | 2:30 | 2.97 | |
| | | 9:10 | 0.42 | |
| | | 15:20 | 2.58 | |
| | | 20:40 | 0.69 | |
| 28 | Dom | 3:00 | 2.9 | |
| | | 9:40 | 0.55 | |
| | | 15:50 | 2.43 | |
| | | 21:10 | 0.79 | |
| 29 | Seg | 3:40 | 2.79 | |
| | | 10:30 | 0.74 | |
| | | 16:30 | 2.29 | |
| | | 21:50 | 0.9 | |
| 30 | Ter | 4:30 | 2.63 | |
| | | 11:20 | 0.91 | |
| | | 17:20 | 2.17 | |
| | | 22:50 | 0.99 | |

| Dia | Outubro | Hora | Altura (m) | Fase Lunar |
|-----|---------|-------|------------|------------|
| 1 | Qua | 5:30 | 2.49 | |
| | | 12:30 | 1.05 | |
| | | 18:40 | 2.13 | |
| 2 | Qui | 0:10 | 1.02 | |
| | | 7:00 | 2.45 | |
| | | 14:00 | 1.07 | |
| | | 20:10 | 2.25 | |
| 3 | Sex | 1:40 | 0.95 | |
| | | 8:20 | 2.57 | |
| | | 15:10 | 0.89 | |
| | | 21:20 | 2.5 | |
| 4 | Sab | 3:10 | 0.82 | |
| | | 9:30 | 2.78 | |
| | | 16:00 | 0.67 | |
| | | 22:20 | 2.78 | |
| 5 | Dom | 4:10 | 0.65 | |
| | | 10:20 | 3.0 | |
| | | 16:50 | 0.46 | |
| | | 23:00 | 3.03 | |
| 6 | Seg | 5:00 | 0.47 | |
| | | 11:10 | 3.2 | |
| | | 17:30 | 0.35 | |
| | | 23:40 | 3.22 | |
| 7 | Ter | 5:50 | 0.31 | |
| | | 12:00 | 3.32 | |
| | | 18:10 | 0.32 | |
| 8 | Qua | 0:20 | 3.35 | |
| | | 6:40 | 0.22 | |
| | | 12:50 | 3.36 | |
| | | 18:40 | 0.4 | |
| 9 | Qui | 0:50 | 3.4 | |
| | | 7:20 | 0.22 | |
| | | 13:30 | 3.31 | |
| | | 19:20 | 0.49 | |
| 10 | Sex | 1:30 | 3.4 | |
| | | 8:00 | 0.31 | |
| | | 14:20 | 3.17 | |
| | | 19:50 | 0.61 | |
| 11 | Sab | 2:00 | 3.34 | |
| | | 8:50 | 0.46 | |
| | | 15:00 | 3.0 | |
| | | 20:30 | 0.72 | |
| 12 | Dom | 2:40 | 3.21 | |
| | | 9:30 | 0.67 | |
| | | 15:40 | 2.8 | |
| | | 21:10 | 0.84 | |
| 13 | Seg | 3:30 | 3.0 | |
| | | 10:30 | 0.9 | |
| | | 16:40 | 2.59 | |
| | | 22:00 | 0.96 | |
| 14 | Ter | 4:30 | 2.76 | |
| | | 11:40 | 1.09 | |
| | | 17:50 | 2.43 | |
| | | 23:10 | 1.08 | |
| 15 | Qua | 5:50 | 2.58 | |
| | | 13:00 | 1.13 | |
| | | 19:10 | 2.4 | |
| 16 | Qui | 0:40 | 1.15 | |
| | | 7:10 | 2.53 | |
| | | 14:20 | 0.95 | |
| | | 20:30 | 2.52 | |
| 17 | Sex | 2:10 | 1.13 | |
| | | 8:30 | 2.61 | |
| | | 15:20 | 0.71 | |
| | | 21:40 | 2.71 | |
| 18 | Sab | 3:30 | 0.95 | |
| | | 9:40 | 2.77 | |
| | | 16:10 | 0.49 | |
| | | 22:30 | 2.92 | |
| 19 | Dom | 4:20 | 0.74 | |
| | | 10:30 | 2.93 | |
| | | 16:50 | 0.37 | |
| | | 23:10 | 3.09 | |
| 20 | Seg | 5:10 | 0.53 | |
| | | 11:20 | 3.04 | |
| | | 17:30 | 0.3 | |
| | | 23:40 | 3.2 | |
| 21 | Ter | 5:50 | 0.38 | |
| | | 12:00 | 3.09 | |
| | | 18:00 | 0.33 | |
| | | 0:10 | 3.23 | |
| | | 6:30 | 0.28 | |
| | | 12:40 | 3.06 | |
| | | 18:30 | 0.38 | |
| 23 | Qui | 0:30 | 3.2 | |
| | | 7:00 | 0.24 | |
| | | 13:20 | 2.96 | |
| | | 18:50 | 0.46 | |
| 24 | Sex | 1:00 | 3.16 | |
| | | 7:40 | 0.26 | |
| | | 13:50 | 2.83 | |
| | | 19:20 | 0.51 | |
| 25 | Sab | 1:20 | 3.09 | |
| | | 8:10 | 0.34 | |
| | | 14:20 | 2.68 | |
| | | 19:40 | 0.6 | |
| 26 | Dom | 1:50 | 3.04 | |
| | | 8:40 | 0.46 | |
| | | 14:50 | 2.55 | |
| | | 20:10 | 0.68 | |
| 27 | Seg | 2:30 | 2.95 | |
| | | 9:20 | 0.62 | |
| | | 15:20 | 2.44 | |
| | | 20:40 | 0.78 | |
| 28 | Ter | 3:10 | 2.83 | |
| | | 10:00 | 0.78 | |
| | | 16:00 | 2.34 | |
| | | 21:30 | 0.88 | |
| 29 | Qua | 4:00 | 2.69 | |
| | | 10:50 | 0.91 | |
| | | 17:00 | 2.25 | |
| | | 22:30 | 0.99 | |
| 30 | Qui | 5:00 | 2.55 | |
| | | 12:00 | 0.99 | |
| | | 18:10 | 2.23 | |
| | | 23:50 | 1.02 | |
| 31 | Sex | 6:20 | 2.51 | |
| | | 13:10 | 0.97 | |
| | | 19:40 | 2.37 | |

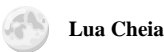
Simbologia das fases lunares:
 Horários no padrão local (Fuso Horário UTC - 3:00)
 Dados de nível sem Georreferenciamento



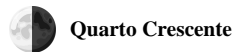
Lua Nova



Quarto Minguante



Lua Cheia

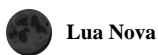


Quarto Crescente

| Dia | Novembro | Hora | Altura (m) | Fase Lunar |
|-----|----------|-------|------------|------------|
| 1 | Sab | 1:20 | 0.96 | |
| | | 7:40 | 2.61 | |
| | | 14:20 | 0.84 | |
| | | 20:50 | 2.62 | |
| 2 | Dom | 2:50 | 0.83 | |
| | | 8:50 | 2.78 | |
| | | 15:20 | 0.68 | |
| | | 21:40 | 2.88 | |
| 3 | Seg | 3:50 | 0.64 | |
| | | 10:00 | 2.99 | |
| | | 16:10 | 0.54 | |
| | | 22:30 | 3.13 | |
| 4 | Ter | 4:50 | 0.43 | |
| | | 11:00 | 3.15 | |
| | | 16:50 | 0.49 | |
| | | 23:10 | 3.31 | |
| 5 | Qua | 5:40 | 0.27 | |
| | | 11:50 | 3.25 | |
| | | 17:40 | 0.46 | |
| | | 23:50 | 3.41 | |
| 6 | Qui | 6:20 | 0.22 | |
| | | 12:40 | 3.26 | |
| | | 18:10 | 0.53 | |
| | | 0:30 | 3.45 | |
| | | 7:10 | 0.24 | |
| | | 13:20 | 3.2 | |
| | | 18:50 | 0.59 | |
| 8 | Sab | 1:00 | 3.41 | |
| | | 7:50 | 0.37 | |
| | | 14:00 | 3.08 | |
| | | 19:30 | 0.67 | |
| 9 | Dom | 1:50 | 3.3 | |
| | | 8:40 | 0.54 | |
| | | 14:50 | 2.91 | |
| | | 20:10 | 0.75 | |
| 10 | Seg | 2:30 | 3.14 | |
| | | 9:30 | 0.73 | |
| | | 15:30 | 2.73 | |
| | | 21:00 | 0.85 | |
| 11 | Ter | 3:20 | 2.93 | |
| | | 10:20 | 0.91 | |
| | | 16:30 | 2.56 | |
| | | 21:50 | 0.96 | |
| 12 | Qua | 4:20 | 2.73 | |
| | | 11:20 | 1.02 | |
| | | 17:30 | 2.46 | |
| | | 23:00 | 1.05 | |
| 13 | Qui | 5:20 | 2.57 | |
| | | 12:30 | 1.02 | |
| | | 18:50 | 2.46 | |
| | | 0:20 | 1.13 | |
| | | 6:40 | 2.51 | |
| | | 13:40 | 0.91 | |
| | | 20:00 | 2.55 | |
| 15 | Sab | 1:50 | 1.14 | |
| | | 7:50 | 2.55 | |
| | | 14:30 | 0.8 | |
| | | 21:00 | 2.7 | |
| 16 | Dom | 3:00 | 0.99 | |
| | | 9:00 | 2.65 | |
| | | 15:20 | 0.67 | |
| | | 21:40 | 2.87 | |
| 17 | Seg | 4:00 | 0.77 | |
| | | 10:00 | 2.76 | |
| | | 16:10 | 0.56 | |
| | | 22:20 | 3.0 | |
| 18 | Ter | 4:40 | 0.58 | |
| | | 10:50 | 2.85 | |
| | | 16:40 | 0.55 | |
| | | 22:50 | 3.09 | |
| 19 | Qua | 5:30 | 0.4 | |
| | | 11:40 | 2.89 | |
| | | 17:20 | 0.51 | |
| | | 23:20 | 3.14 | |
| 20 | Qui | 6:00 | 0.32 | |
| | | 12:20 | 2.87 | |
| | | 17:50 | 0.51 | |
| | | 23:50 | 3.14 | |
| 21 | Sex | 6:40 | 0.3 | |
| | | 12:50 | 2.81 | |
| | | 18:20 | 0.51 | |
| 22 | Sab | 0:30 | 3.14 | |
| | | 7:20 | 0.34 | |
| | | 13:20 | 2.72 | |
| | | 18:40 | 0.56 | |
| 23 | Dom | 1:00 | 3.09 | |
| | | 7:50 | 0.43 | |
| | | 13:50 | 2.62 | |
| | | 19:10 | 0.61 | |
| 24 | Seg | 1:40 | 3.04 | |
| | | 8:20 | 0.54 | |
| | | 14:20 | 2.54 | |
| | | 19:50 | 0.66 | |
| 25 | Ter | 2:10 | 2.97 | |
| | | 9:00 | 0.65 | |
| | | 15:00 | 2.48 | |
| | | 20:30 | 0.74 | |
| 26 | Qua | 3:00 | 2.87 | |
| | | 9:40 | 0.74 | |
| | | 15:40 | 2.44 | |
| | | 21:20 | 0.84 | |
| 27 | Qui | 3:40 | 2.78 | |
| | | 10:30 | 0.81 | |
| | | 16:40 | 2.4 | |
| | | 22:20 | 0.93 | |
| 28 | Sex | 4:40 | 2.68 | |
| | | 11:30 | 0.84 | |
| | | 17:50 | 2.42 | |
| | | 23:40 | 0.95 | |
| 29 | Sab | 5:50 | 2.63 | |
| | | 12:30 | 0.84 | |
| | | 19:00 | 2.53 | |
| 30 | Dom | 1:00 | 0.92 | |
| | | 7:10 | 2.67 | |
| | | 13:30 | 0.81 | |
| | | 20:00 | 2.72 | |

| Dia | Dezembro | Hora | Altura (m) | Fase Lunar |
|-----|----------|-------|------------|------------|
| 1 | Seg | 2:20 | 0.83 | |
| | | 8:20 | 2.77 | |
| | | 14:30 | 0.76 | |
| | | 21:00 | 2.93 | |
| 2 | Ter | 3:30 | 0.66 | |
| | | 9:40 | 2.91 | |
| | | 15:30 | 0.7 | |
| | | 21:50 | 3.13 | |
| 3 | Qua | 4:30 | 0.48 | |
| | | 10:40 | 3.03 | |
| | | 16:20 | 0.66 | |
| | | 22:40 | 3.29 | |
| 4 | Qui | 5:20 | 0.35 | |
| | | 11:30 | 3.12 | |
| | | 17:10 | 0.62 | |
| | | 23:20 | 3.37 | |
| 5 | Sex | 6:10 | 0.29 | |
| | | 12:20 | 3.14 | |
| | | 17:50 | 0.63 | |
| | | 0:10 | 3.4 | |
| | | 7:00 | 0.31 | |
| | | 13:10 | 3.09 | |
| | | 18:40 | 0.62 | |
| 7 | Dom | 0:50 | 3.35 | |
| | | 7:50 | 0.39 | |
| | | 13:50 | 3.01 | |
| | | 19:20 | 0.67 | |
| 8 | Seg | 1:40 | 3.25 | |
| | | 8:30 | 0.55 | |
| | | 14:40 | 2.88 | |
| | | 20:00 | 0.74 | |
| 9 | Ter | 2:30 | 3.1 | |
| | | 9:20 | 0.66 | |
| | | 15:20 | 2.76 | |
| | | 20:50 | 0.81 | |
| 10 | Qua | 3:10 | 2.93 | |
| | | 10:10 | 0.76 | |
| | | 16:20 | 2.64 | |
| | | 21:50 | 0.89 | |
| 11 | Qui | 4:00 | 2.77 | |
| | | 11:00 | 0.83 | |
| | | 17:10 | 2.57 | |
| | | 22:50 | 0.98 | |
| 12 | Sex | 5:00 | 2.62 | |
| | | 11:50 | 0.87 | |
| | | 18:10 | 2.54 | |
| 13 | Sab | 0:00 | 1.05 | |
| | | 6:00 | 2.52 | |
| | | 12:40 | 0.88 | |
| | | 19:10 | 2.57 | |
| 14 | Dom | 1:10 | 1.08 | |
| | | 7:10 | 2.49 | |
| | | 13:30 | 0.87 | |
| | | 20:00 | 2.64 | |
| 15 | Seg | 2:20 | 1.01 | |
| | | 8:20 | 2.5 | |
| | | 14:20 | 0.84 | |
| | | 20:50 | 2.74 | |
| 16 | Ter | 3:20 | 0.85 | |
| | | 9:30 | 2.55 | |
| | | 15:10 | 0.8 | |
| | | 21:30 | 2.84 | |
| 17 | Qua | 4:10 | 0.68 | |
| | | 10:20 | 2.62 | |
| | | 15:50 | 0.75 | |
| | | 22:10 | 2.94 | |
| 18 | Qui | 5:00 | 0.54 | |
| | | 11:10 | 2.66 | |
| | | 16:30 | 0.68 | |
| | | 22:50 | 3.01 | |
| 19 | Sex | 5:40 | 0.46 | |
| | | 11:50 | 2.68 | |
| | | 17:10 | 0.61 | |
| | | 23:30 | 3.06 | |
| 20 | Sab | 6:20 | 0.43 | |
| | | 12:30 | 2.67 | |
| | | 17:40 | 0.57 | |
| 21 | Dom | 0:10 | 3.08 | |
| | | 7:00 | 0.45 | |
| | | 13:00 | 2.65 | |
| | | 18:20 | 0.55 | |
| 22 | Seg | 0:50 | 3.08 | |
| | | 7:30 | 0.5 | |
| | | 13:30 | 2.63 | |
| | | 19:00 | 0.56 | |
| 23 | Ter | 1:20 | 3.06 | |
| | | 8:10 | 0.54 | |
| | | 14:10 | 2.61 | |
| | | 19:40 | 0.61 | |
| 24 | Qua | 2:00 | 3.03 | |
| | | 8:40 | 0.58 | |
| | | 14:50 | 2.61 | |
| | | 20:20 | 0.69 | |
| 25 | Qui | 2:40 | 2.99 | |
| | | 9:20 | 0.62 | |
| | | 15:30 | 2.61 | |
| | | 21:10 | 0.76 | |
| 26 | Sex | 3:30 | 2.92 | |
| | | 10:00 | 0.66 | |
| | | 16:20 | 2.62 | |
| | | 22:10 | 0.82 | |
| 27 | Sab | 4:20 | 2.83 | |
| | | 10:50 | 0.71 | |
| | | 17:20 | 2.64 | |
| | | 23:20 | 0.84 | |
| 28 | Dom | 5:20 | 2.75 | |
| | | 11:50 | 0.77 | |
| | | 18:10 | 2.7 | |
| 29 | Seg | 0:30 | 0.85 | |
| | | 6:40 | 2.7 | |
| | | 12:40 | 0.84 | |
| | | 19:10 | 2.79 | |
| 30 | Ter | 1:50 | 0.84 | |
| | | 8:00 | 2.71 | |
| | | 13:50 | 0.87 | |
| | | 20:10 | 2.91 | |
| 31 | Qua | 3:00 | 0.76 | |
| | | 9:10 | 2.78 | |
| | | 14:50 | 0.87 | |

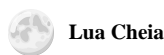
Simbologia das fases lunares:
 Horários no padrão local (Fuso Horário UTC -3:00)
 Dados de nível sem Georreferenciamento



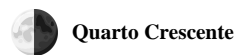
Lua Nova



Quarto Minguante



Lua Cheia



Quarto Crescente