

2004 - November

Calendar for Mauna Kea - Hawai'i

2004 - November

Longitude: W 155 28
Latitude : N 19 50

Height: 4215m
Time Zone: -10h 00m

Zone Time = UT - 10h 00m

| Date | J.D. at Oh UT 245 | LMST at Oh UT h m s | Moon | | Moon Transit Dec. Phase o ' o | Morning | | | Sun | | Evening | | | | |
|------|-------------------------|---------------------------|-------------|------------|-------------------------------------|--------------------|--------------------|--------------------|-------------|------------|--------------------|--------------------|--------------------|-------|-------|
| | | | Rise h m | Set h m | | Astr. Twil. h m | Naut. Twil. h m | Civil Twil. h m | Rise h m | Set h m | Civil Twil. h m | Naut. Twil. h m | Astr. Twil. h m | | |
| Mon | 1 | 3310.5 | 16 20 36 | 21 16 | 10 44 | +28 01 | 0.82 | 05 09 | 05 35 | 06 01 | 06 13 | 17 57 | 18 10 | 18 36 | 19 02 |
| Tues | 2 | 3311.5 | 16 24 33 | 22 09 | 11 35 | +27 59 | 0.74 | 05 09 | 05 35 | 06 01 | 06 14 | 17 57 | 18 09 | 18 36 | 19 02 |
| Wed | 3 | 3312.5 | 16 28 30 | 23 03 | 12 21 | +26 34 | 0.65 | 05 09 | 05 35 | 06 02 | 06 14 | 17 56 | 18 09 | 18 35 | 19 01 |
| Thur | 4 | 3313.5 | 16 32 26 | 23 57 | 13 04 | +23 52 | 0.55 | 05 10 | 05 36 | 06 02 | 06 15 | 17 56 | 18 09 | 18 35 | 19 01 |
| Fri | 5 | 3314.5 | 16 36 23 | | 13 43 | +20 02 | 0.46 | 05 10 | 05 36 | 06 03 | 06 15 | 17 56 | 18 08 | 18 34 | 19 01 |
| Sat | 6 | 3315.5 | 16 40 19 | 00 50 | 14 19 | +15 13 | 0.36 | 05 11 | 05 37 | 06 03 | 06 16 | 17 55 | 18 08 | 18 34 | 19 00 |
| Sun | 7 | 3316.5 | 16 44 16 | 01 43 | 14 54 | +09 37 | 0.26 | 05 11 | 05 37 | 06 04 | 06 16 | 17 55 | 18 07 | 18 34 | 19 00 |
| Mon | 8 | 3317.5 | 16 48 12 | 02 36 | 15 28 | +03 25 | 0.17 | 05 11 | 05 38 | 06 04 | 06 17 | 17 54 | 18 07 | 18 34 | 19 00 |
| Tues | 9 | 3318.5 | 16 52 09 | 03 30 | 16 04 | -03 10 | 0.10 | 05 12 | 05 38 | 06 05 | 06 17 | 17 54 | 18 07 | 18 33 | 18 59 |
| Wed | 10 | 3319.5 | 16 56 05 | 04 26 | 16 42 | -09 49 | 0.04 | 05 12 | 05 39 | 06 05 | 06 18 | 17 54 | 18 07 | 18 33 | 18 59 |
| Thur | 11 | 3320.5 | 17 00 02 | 05 26 | 17 24 | -16 12 | 0.01 | 05 13 | 05 39 | 06 06 | 06 18 | 17 53 | 18 06 | 18 33 | 18 59 |
| Fri | 12 | 3321.5 | 17 03 59 | 06 29 | 18 12 | -21 46 | 0.00 | 05 13 | 05 40 | 06 06 | 06 19 | 17 53 | 18 06 | 18 33 | 18 59 |
| Sat | 13 | 3322.5 | 17 07 55 | 07 36 | 19 07 | -26 01 | 0.03 | 05 14 | 05 40 | 06 07 | 06 19 | 17 53 | 18 06 | 18 32 | 18 59 |
| Sun | 14 | 3323.5 | 17 11 52 | 08 45 | 20 08 | -28 22 | 0.08 | 05 14 | 05 40 | 06 07 | 06 20 | 17 53 | 18 06 | 18 32 | 18 59 |
| Mon | 15 | 3324.5 | 17 15 48 | 09 52 | 21 14 | -28 33 | 0.16 | 05 15 | 05 41 | 06 08 | 06 21 | 17 53 | 18 05 | 18 32 | 18 58 |
| Tues | 16 | 3325.5 | 17 19 45 | 10 53 | 22 22 | -26 35 | 0.27 | 05 15 | 05 42 | 06 08 | 06 21 | 17 52 | 18 05 | 18 32 | 18 58 |
| Wed | 17 | 3326.5 | 17 23 41 | 11 48 | 23 26 | -22 50 | 0.38 | 05 16 | 05 42 | 06 09 | 06 22 | 17 52 | 18 05 | 18 32 | 18 58 |
| Thur | 18 | 3327.5 | 17 27 38 | 12 35 | | -17 46 | 0.49 | 05 16 | 05 43 | 06 09 | 06 22 | 17 52 | 18 05 | 18 32 | 18 58 |
| Fri | 19 | 3328.5 | 17 31 34 | 13 16 | 00 27 | -11 52 | 0.61 | 05 17 | 05 43 | 06 10 | 06 23 | 17 52 | 18 05 | 18 32 | 18 58 |
| Sat | 20 | 3329.5 | 17 35 31 | 13 54 | 01 25 | -05 32 | 0.71 | 05 17 | 05 44 | 06 10 | 06 23 | 17 52 | 18 05 | 18 32 | 18 58 |
| Sun | 21 | 3330.5 | 17 39 28 | 14 28 | 02 20 | +00 53 | 0.81 | 05 18 | 05 44 | 06 11 | 06 24 | 17 52 | 18 05 | 18 32 | 18 58 |
| Mon | 22 | 3331.5 | 17 43 24 | 15 02 | 03 13 | +07 09 | 0.88 | 05 18 | 05 45 | 06 12 | 06 25 | 17 52 | 18 05 | 18 32 | 18 58 |
| Tues | 23 | 3332.5 | 17 47 21 | 15 36 | 04 05 | +12 59 | 0.94 | 05 19 | 05 45 | 06 12 | 06 25 | 17 52 | 18 05 | 18 32 | 18 58 |
| Wed | 24 | 3333.5 | 17 51 17 | 16 12 | 04 58 | +18 11 | 0.98 | 05 19 | 05 46 | 06 13 | 06 26 | 17 52 | 18 05 | 18 32 | 18 58 |
| Thur | 25 | 3334.5 | 17 55 14 | 16 51 | 05 52 | +22 29 | 1.00 | 05 20 | 05 46 | 06 13 | 06 26 | 17 52 | 18 05 | 18 32 | 18 58 |
| Fri | 26 | 3335.5 | 17 59 10 | 17 33 | 06 47 | | | 05 20 | 05 47 | 06 14 | 06 27 | 17 52 | 18 05 | 18 32 | 18 59 |
| Sat | 27 | 3336.5 | 18 03 07 | 18 19 | 07 42 | +25 41 | 1.00 | 05 21 | 05 47 | 06 15 | 06 28 | 17 52 | 18 05 | 18 32 | 18 59 |
| Sun | 28 | 3337.5 | 18 07 03 | 19 09 | 08 36 | +27 35 | 0.97 | 05 21 | 05 48 | 06 15 | 06 28 | 17 52 | 18 05 | 18 32 | 18 59 |
| Mon | 29 | 3338.5 | 18 11 00 | 20 01 | 09 28 | +28 05 | 0.93 | 05 22 | 05 49 | 06 16 | 06 29 | 17 52 | 18 05 | 18 32 | 18 59 |
| Tues | 30 | 3339.5 | 18 14 57 | 20 55 | 10 16 | +27 10 | 0.88 | 05 22 | 05 49 | 06 16 | 06 29 | 17 52 | 18 05 | 18 32 | 18 59 |