

2004 - August

Calendar for Mauna Kea - Hawai'i

2004 - August

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 | |
| Sun 1 | 3218.5 | 10 17 53 | 20 09 | 07 10 | -20 15 | 0.99 | 04 38 | 05 07 | 05 34 | 05 47 | 19 09 | 19 22 | 19 49 | 20 18 |
| Mon 2 | 3219.5 | 10 21 50 | 20 50 | 08 12 | -14 30 | 0.96 | 04 39 | 05 07 | 05 35 | 05 48 | 19 08 | 19 21 | 19 49 | 20 17 |
| Tues 3 | 3220.5 | 10 25 47 | 21 28 | 09 10 | -08 07 | 0.90 | 04 39 | 05 08 | 05 35 | 05 48 | 19 08 | 19 21 | 19 48 | 20 16 |
| Wed 4 | 3221.5 | 10 29 43 | 22 03 | 10 05 | -01 34 | 0.82 | 04 40 | 05 08 | 05 35 | 05 48 | 19 07 | 19 20 | 19 47 | 20 15 |
| Thur 5 | 3222.5 | 10 33 40 | 22 37 | 10 59 | +04 50 | 0.72 | 04 40 | 05 08 | 05 36 | 05 49 | 19 06 | 19 19 | 19 47 | 20 15 |
| Fri 6 | 3223.5 | 10 37 36 | 23 12 | 11 51 | +10 48 | 0.63 | 04 41 | 05 09 | 05 36 | 05 49 | 19 06 | 19 19 | 19 46 | 20 14 |
| Sat 7 | 3224.5 | 10 41 33 | 23 49 | 12 44 | +16 08 | 0.52 | 04 41 | 05 09 | 05 37 | 05 50 | 19 05 | 19 18 | 19 45 | 20 13 |
| Sun 8 | 3225.5 | 10 45 29 | | 13 37 | +20 40 | 0.43 | 04 42 | 05 10 | 05 37 | 05 50 | 19 05 | 19 18 | 19 45 | 20 13 |
| Mon 9 | 3226.5 | 10 49 26 | 00 29 | 14 31 | +24 14 | 0.33 | 04 42 | 05 10 | 05 37 | 05 50 | 19 04 | 19 17 | 19 44 | 20 12 |
| Tues 10 | 3227.5 | 10 53 22 | 01 12 | 15 25 | +26 38 | 0.24 | 04 43 | 05 10 | 05 38 | 05 51 | 19 03 | 19 16 | 19 43 | 20 11 |
| Wed 11 | 3228.5 | 10 57 19 | 01 59 | 16 17 | +27 44 | 0.16 | 04 43 | 05 11 | 05 38 | 05 51 | 19 03 | 19 16 | 19 43 | 20 10 |
| Thur 12 | 3229.5 | 11 01 16 | 02 50 | 17 07 | +27 28 | 0.10 | 04 44 | 05 11 | 05 38 | 05 51 | 19 02 | 19 15 | 19 42 | 20 09 |
| Fri 13 | 3230.5 | 11 05 12 | 03 44 | 17 54 | +25 47 | 0.05 | 04 44 | 05 12 | 05 39 | 05 51 | 19 01 | 19 14 | 19 41 | 20 08 |
| Sat 14 | 3231.5 | 11 09 09 | 04 39 | 18 36 | +22 49 | 0.02 | 04 45 | 05 12 | 05 39 | 05 52 | 19 01 | 19 13 | 19 40 | 20 08 |
| Sun 15 | 3232.5 | 11 13 05 | 05 34 | 19 16 | +18 42 | 0.00 | 04 45 | 05 12 | 05 39 | 05 52 | 19 00 | 19 13 | 19 40 | 20 07 |
| Mon 16 | 3233.5 | 11 17 02 | 06 28 | 19 52 | +13 39 | 0.01 | 04 46 | 05 13 | 05 40 | 05 52 | 18 59 | 19 12 | 19 39 | 20 06 |
| Tues 17 | 3234.5 | 11 20 58 | 07 22 | 20 27 | +07 54 | 0.04 | 04 46 | 05 13 | 05 40 | 05 53 | 18 58 | 19 11 | 19 38 | 20 05 |
| Wed 18 | 3235.5 | 11 24 55 | 08 15 | 21 01 | +01 42 | 0.09 | 04 46 | 05 14 | 05 40 | 05 53 | 18 58 | 19 10 | 19 37 | 20 04 |
| Thur 19 | 3236.5 | 11 28 51 | 09 08 | 21 36 | -04 42 | 0.16 | 04 47 | 05 14 | 05 41 | 05 53 | 18 57 | 19 10 | 19 36 | 20 03 |
| Fri 20 | 3237.5 | 11 32 48 | 10 02 | 22 13 | -11 00 | 0.25 | 04 47 | 05 14 | 05 41 | 05 54 | 18 56 | 19 09 | 19 35 | 20 02 |
| Sat 21 | 3238.5 | 11 36 45 | 10 59 | 22 54 | -16 54 | 0.36 | 04 48 | 05 15 | 05 41 | 05 54 | 18 55 | 19 08 | 19 35 | 20 01 |
| Sun 22 | 3239.5 | 11 40 41 | 11 59 | 23 40 | -22 01 | 0.47 | 04 48 | 05 15 | 05 42 | 05 54 | 18 55 | 19 07 | 19 34 | 20 01 |
| Mon 23 | 3240.5 | 11 44 38 | 13 03 | | -25 55 | 0.59 | 04 48 | 05 15 | 05 42 | 05 54 | 18 54 | 19 06 | 19 33 | 20 00 |
| Tues 24 | 3241.5 | 11 48 34 | 14 08 | 00 32 | -28 08 | 0.70 | 04 49 | 05 16 | 05 42 | 05 55 | 18 53 | 19 06 | 19 32 | 19 59 |
| Wed 25 | 3242.5 | 11 52 31 | 15 13 | 01 32 | -28 20 | 0.81 | 04 49 | 05 16 | 05 42 | 05 55 | 18 52 | 19 05 | 19 31 | 19 58 |
| Thur 26 | 3243.5 | 11 56 27 | 16 15 | 02 37 | -26 26 | 0.89 | 04 50 | 05 16 | 05 43 | 05 55 | 18 51 | 19 04 | 19 30 | 19 57 |
| Fri 27 | 3244.5 | 12 00 24 | 17 10 | 03 44 | -22 38 | 0.96 | 04 50 | 05 17 | 05 43 | 05 55 | 18 51 | 19 03 | 19 29 | 19 56 |
| Sat 28 | 3245.5 | 12 04 20 | 17 59 | 04 50 | -17 24 | 0.99 | 04 50 | 05 17 | 05 43 | 05 56 | 18 50 | 19 02 | 19 28 | 19 55 |
| Sun 29 | 3246.5 | 12 08 17 | 18 42 | 05 54 | | | 04 51 | 05 17 | 05 43 | 05 56 | 18 49 | 19 01 | 19 27 | 19 54 |
| Mon 30 | 3247.5 | 12 12 14 | 19 21 | 06 54 | -11 14 | 1.00 | 04 51 | 05 18 | 05 44 | 05 56 | 18 48 | 19 00 | 19 27 | 19 53 |
| Tues 31 | 3248.5 | 12 16 10 | 19 58 | 07 51 | -04 37 | 0.97 | 04 51 | 05 18 | 05 44 | 05 56 | 18 47 | 19 00 | 19 26 | 19 52 |