

2018 - September

Calendar for Mauna Kea - Hawai'i

2018 - September

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 | |
| Sat 1 | 8362.5 | 12 18 34 | 23 01 | 11 40 | +12 54 | 0.66 | 04 52 | 05 18 | 05 44 | 05 57 | 18 47 | 18 59 | 19 25 | 19 51 |
| Sun 2 | 8363.5 | 12 22 30 | 23 50 | 12 38 | +16 29 | 0.55 | 04 52 | 05 18 | 05 44 | 05 57 | 18 46 | 18 58 | 19 24 | 19 50 |
| Mon 3 | 8364.5 | 12 26 27 | | 13 38 | +19 10 | 0.43 | 04 52 | 05 19 | 05 45 | 05 57 | 18 45 | 18 57 | 19 23 | 19 49 |
| Tues 4 | 8365.5 | 12 30 24 | 00 44 | 14 39 | +20 39 | 0.32 | 04 53 | 05 19 | 05 45 | 05 57 | 18 44 | 18 56 | 19 22 | 19 48 |
| Wed 5 | 8366.5 | 12 34 20 | 01 43 | 15 39 | +20 41 | 0.21 | 04 53 | 05 19 | 05 45 | 05 57 | 18 43 | 18 55 | 19 21 | 19 48 |
| Thur 6 | 8367.5 | 12 38 17 | 02 45 | 16 36 | +19 11 | 0.12 | 04 53 | 05 19 | 05 45 | 05 58 | 18 42 | 18 55 | 19 20 | 19 47 |
| Fri 7 | 8368.5 | 12 42 13 | 03 50 | 17 30 | +16 14 | 0.05 | 04 54 | 05 20 | 05 46 | 05 58 | 18 41 | 18 54 | 19 19 | 19 46 |
| Sat 8 | 8369.5 | 12 46 10 | 04 55 | 18 20 | +12 06 | 0.01 | 04 54 | 05 20 | 05 46 | 05 58 | 18 40 | 18 53 | 19 19 | 19 45 |
| Sun 9 | 8370.5 | 12 50 06 | 05 58 | 19 06 | +07 09 | 0.00 | 04 54 | 05 20 | 05 46 | 05 58 | 18 39 | 18 52 | 19 18 | 19 44 |
| Mon 10 | 8371.5 | 12 54 03 | 06 59 | 19 51 | +01 51 | 0.02 | 04 54 | 05 20 | 05 46 | 05 59 | 18 39 | 18 51 | 19 17 | 19 43 |
| Tues 11 | 8372.5 | 12 57 59 | 07 59 | 20 33 | -03 27 | 0.07 | 04 55 | 05 21 | 05 46 | 05 59 | 18 38 | 18 50 | 19 16 | 19 42 |
| Wed 12 | 8373.5 | 13 01 56 | 08 56 | 21 16 | -08 25 | 0.14 | 04 55 | 05 21 | 05 47 | 05 59 | 18 37 | 18 49 | 19 15 | 19 41 |
| Thur 13 | 8374.5 | 13 05 53 | 09 52 | 21 59 | -12 47 | 0.23 | 04 55 | 05 21 | 05 47 | 05 59 | 18 36 | 18 48 | 19 14 | 19 40 |
| Fri 14 | 8375.5 | 13 09 49 | 10 46 | 22 42 | -16 23 | 0.32 | 04 56 | 05 21 | 05 47 | 05 59 | 18 35 | 18 47 | 19 13 | 19 39 |
| Sat 15 | 8376.5 | 13 13 46 | 11 40 | 23 27 | -19 05 | 0.42 | 04 56 | 05 22 | 05 47 | 06 00 | 18 34 | 18 46 | 19 12 | 19 38 |
| Sun 16 | 8377.5 | 13 17 42 | 12 32 | | -20 47 | 0.52 | 04 56 | 05 22 | 05 48 | 06 00 | 18 33 | 18 45 | 19 11 | 19 37 |
| Mon 17 | 8378.5 | 13 21 39 | 13 22 | 00 14 | -21 29 | 0.62 | 04 56 | 05 22 | 05 48 | 06 00 | 18 32 | 18 44 | 19 10 | 19 36 |
| Tues 18 | 8379.5 | 13 25 35 | 14 10 | 01 02 | -21 09 | 0.71 | 04 57 | 05 22 | 05 48 | 06 00 | 18 31 | 18 43 | 19 09 | 19 35 |
| Wed 19 | 8380.5 | 13 29 32 | 14 57 | 01 51 | -19 50 | 0.79 | 04 57 | 05 23 | 05 48 | 06 00 | 18 30 | 18 43 | 19 08 | 19 34 |
| Thur 20 | 8381.5 | 13 33 28 | 15 40 | 02 41 | -17 37 | 0.87 | 04 57 | 05 23 | 05 48 | 06 01 | 18 29 | 18 42 | 19 07 | 19 33 |
| Fri 21 | 8382.5 | 13 37 25 | 16 22 | 03 31 | -14 35 | 0.93 | 04 57 | 05 23 | 05 49 | 06 01 | 18 28 | 18 41 | 19 06 | 19 32 |
| Sat 22 | 8383.5 | 13 41 22 | 17 02 | 04 22 | -10 53 | 0.97 | 04 58 | 05 23 | 05 49 | 06 01 | 18 28 | 18 40 | 19 05 | 19 31 |
| Sun 23 | 8384.5 | 13 45 18 | 17 40 | 05 12 | -06 39 | 0.99 | 04 58 | 05 23 | 05 49 | 06 01 | 18 27 | 18 39 | 19 04 | 19 30 |
| Mon 24 | 8385.5 | 13 49 15 | 18 18 | 06 03 | | | 04 58 | 05 24 | 05 49 | 06 01 | 18 26 | 18 38 | 19 03 | 19 29 |
| Tues 25 | 8386.5 | 13 53 11 | 18 56 | 06 54 | -02 03 | 1.00 | 04 58 | 05 24 | 05 49 | 06 02 | 18 25 | 18 37 | 19 03 | 19 28 |
| Wed 26 | 8387.5 | 13 57 08 | 19 35 | 07 47 | +02 43 | 0.98 | 04 59 | 05 24 | 05 50 | 06 02 | 18 24 | 18 36 | 19 02 | 19 27 |
| Thur 27 | 8388.5 | 14 01 04 | 20 16 | 08 40 | +07 25 | 0.94 | 04 59 | 05 24 | 05 50 | 06 02 | 18 23 | 18 35 | 19 01 | 19 26 |
| Fri 28 | 8389.5 | 14 05 01 | 20 59 | 09 36 | +11 50 | 0.88 | 04 59 | 05 25 | 05 50 | 06 02 | 18 22 | 18 34 | 19 00 | 19 25 |
| Sat 29 | 8390.5 | 14 08 57 | 21 47 | 10 34 | +15 40 | 0.79 | 04 59 | 05 25 | 05 50 | 06 03 | 18 21 | 18 33 | 18 59 | 19 25 |
| Sun 30 | 8391.5 | 14 12 54 | 22 39 | 11 33 | +18 40 | 0.70 | 04 59 | 05 25 | 05 51 | 06 03 | 18 20 | 18 33 | 18 58 | 19 24 |