

1998 - August

Calendar for Mauna Kea - Hawai'i

1998 - 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 | |
| Sat 1 | 1026.5 | 10 15 44 | 13 31 | 00 47 | -15 18 | 0.66 | 04 38 | 05 06 | 05 34 | 05 47 | 19 09 | 19 22 | 19 50 | 20 18 |
| Sun 2 | 1027.5 | 10 19 41 | 14 22 | 01 29 | -17 35 | 0.76 | 04 39 | 05 07 | 05 35 | 05 48 | 19 08 | 19 21 | 19 49 | 20 17 |
| Mon 3 | 1028.5 | 10 23 37 | 15 14 | 02 14 | -19 04 | 0.84 | 04 39 | 05 07 | 05 35 | 05 48 | 19 08 | 19 21 | 19 48 | 20 17 |
| Tues 4 | 1029.5 | 10 27 34 | 16 07 | 03 02 | -19 34 | 0.91 | 04 40 | 05 08 | 05 35 | 05 48 | 19 07 | 19 20 | 19 48 | 20 16 |
| Wed 5 | 1030.5 | 10 31 30 | 17 00 | 03 55 | -18 57 | 0.96 | 04 40 | 05 08 | 05 36 | 05 49 | 19 07 | 19 20 | 19 47 | 20 15 |
| Thur 6 | 1031.5 | 10 35 27 | 17 52 | 04 51 | -17 10 | 0.99 | 04 41 | 05 09 | 05 36 | 05 49 | 19 06 | 19 19 | 19 46 | 20 14 |
| Fri 7 | 1032.5 | 10 39 24 | 18 43 | 05 49 | | | 04 41 | 05 09 | 05 36 | 05 49 | 19 06 | 19 18 | 19 46 | 20 14 |
| Sat 8 | 1033.5 | 10 43 20 | 19 33 | 06 48 | -14 16 | 1.00 | 04 42 | 05 09 | 05 37 | 05 50 | 19 05 | 19 18 | 19 45 | 20 13 |
| Sun 9 | 1034.5 | 10 47 17 | 20 20 | 07 49 | -10 27 | 0.97 | 04 42 | 05 10 | 05 37 | 05 50 | 19 04 | 19 17 | 19 44 | 20 12 |
| Mon 10 | 1035.5 | 10 51 13 | 21 06 | 08 49 | -05 56 | 0.92 | 04 43 | 05 10 | 05 37 | 05 50 | 19 04 | 19 17 | 19 44 | 20 11 |
| Tues 11 | 1036.5 | 10 55 10 | 21 51 | 09 49 | -01 03 | 0.85 | 04 43 | 05 11 | 05 38 | 05 51 | 19 03 | 19 16 | 19 43 | 20 11 |
| Wed 12 | 1037.5 | 10 59 06 | 22 37 | 10 49 | +03 52 | 0.75 | 04 43 | 05 11 | 05 38 | 05 51 | 19 02 | 19 15 | 19 42 | 20 10 |
| Thur 13 | 1038.5 | 11 03 03 | 23 24 | 11 49 | +08 30 | 0.64 | 04 44 | 05 11 | 05 39 | 05 51 | 19 02 | 19 15 | 19 41 | 20 09 |
| Fri 14 | 1039.5 | 11 06 59 | | 12 49 | +12 32 | 0.52 | 04 44 | 05 12 | 05 39 | 05 52 | 19 01 | 19 14 | 19 41 | 20 08 |
| Sat 15 | 1040.5 | 11 10 56 | 00 13 | 13 48 | +15 44 | 0.40 | 04 45 | 05 12 | 05 39 | 05 52 | 19 00 | 19 13 | 19 40 | 20 07 |
| Sun 16 | 1041.5 | 11 14 52 | 01 04 | 14 47 | +17 53 | 0.29 | 04 45 | 05 13 | 05 40 | 05 52 | 19 00 | 19 12 | 19 39 | 20 06 |
| Mon 17 | 1042.5 | 11 18 49 | 01 57 | 15 43 | +18 53 | 0.19 | 04 46 | 05 13 | 05 40 | 05 53 | 18 59 | 19 12 | 19 38 | 20 06 |
| Tues 18 | 1043.5 | 11 22 46 | 02 51 | 16 37 | +18 41 | 0.11 | 04 46 | 05 13 | 05 40 | 05 53 | 18 58 | 19 11 | 19 38 | 20 05 |
| Wed 19 | 1044.5 | 11 26 42 | 03 47 | 17 27 | +17 22 | 0.05 | 04 47 | 05 14 | 05 40 | 05 53 | 18 57 | 19 10 | 19 37 | 20 04 |
| Thur 20 | 1045.5 | 11 30 39 | 04 42 | 18 13 | +15 05 | 0.01 | 04 47 | 05 14 | 05 41 | 05 53 | 18 57 | 19 09 | 19 36 | 20 03 |
| Fri 21 | 1046.5 | 11 34 35 | 05 36 | 18 56 | +12 03 | 0.00 | 04 47 | 05 14 | 05 41 | 05 54 | 18 56 | 19 08 | 19 35 | 20 02 |
| Sat 22 | 1047.5 | 11 38 32 | 06 28 | 19 36 | +08 28 | 0.01 | 04 48 | 05 15 | 05 41 | 05 54 | 18 55 | 19 08 | 19 34 | 20 01 |
| Sun 23 | 1048.5 | 11 42 28 | 07 19 | 20 15 | +04 33 | 0.04 | 04 48 | 05 15 | 05 42 | 05 54 | 18 54 | 19 07 | 19 33 | 20 00 |
| Mon 24 | 1049.5 | 11 46 25 | 08 09 | 20 52 | +00 29 | 0.08 | 04 49 | 05 15 | 05 42 | 05 55 | 18 53 | 19 06 | 19 32 | 19 59 |
| Tues 25 | 1050.5 | 11 50 21 | 08 57 | 21 28 | -03 33 | 0.14 | 04 49 | 05 16 | 05 42 | 05 55 | 18 53 | 19 05 | 19 32 | 19 58 |
| Wed 26 | 1051.5 | 11 54 18 | 09 45 | 22 05 | -07 26 | 0.22 | 04 49 | 05 16 | 05 42 | 05 55 | 18 52 | 19 04 | 19 31 | 19 57 |
| Thur 27 | 1052.5 | 11 58 15 | 10 34 | 22 43 | -11 00 | 0.30 | 04 50 | 05 16 | 05 43 | 05 55 | 18 51 | 19 04 | 19 30 | 19 56 |
| Fri 28 | 1053.5 | 12 02 11 | 11 23 | 23 24 | -14 07 | 0.40 | 04 50 | 05 17 | 05 43 | 05 56 | 18 50 | 19 03 | 19 29 | 19 55 |
| Sat 29 | 1054.5 | 12 06 08 | 12 12 | | -16 40 | 0.50 | 04 51 | 05 17 | 05 43 | 05 56 | 18 49 | 19 02 | 19 28 | 19 54 |
| Sun 30 | 1055.5 | 12 10 04 | 13 03 | 00 07 | -18 30 | 0.60 | 04 51 | 05 17 | 05 44 | 05 56 | 18 48 | 19 01 | 19 27 | 19 54 |
| Mon 31 | 1056.5 | 12 14 01 | 13 55 | 00 53 | -19 26 | 0.70 | 04 51 | 05 18 | 05 44 | 05 56 | 18 48 | 19 00 | 19 26 | 19 53 |