

2002 - May

Calendar for Mauna Kea - Hawai'i

2002 - May

Longitude: W 155 28  
Latitude : N 19 50

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

Zone Time = UT - 10h 00m

| Date    | J.D. at<br>Oh UT<br>245 | LMST<br>at Oh UT<br>h m s | Moon  |       | Moon Transit<br>Dec. Phase<br>o ' o | Morning     |             |             | Sun   |       | Evening     |             |             |       |
|---------|-------------------------|---------------------------|-------|-------|-------------------------------------|-------------|-------------|-------------|-------|-------|-------------|-------------|-------------|-------|
|         |                         |                           | Rise  | Set   |                                     | Astr. Twil. | Naut. Twil. | Civil Twil. | Rise  | Set   | Civil Twil. | Naut. Twil. | Astr. Twil. |       |
|         |                         |                           | h m   | h m   |                                     | h m         | h m         | h m         | h m   | h m   | h m         | h m         | h m         | h m   |
| Wed 1   | 2395.5                  | 04 13 08                  | 23 37 | 10 11 | -25 38                              | 0.76        | 04 35       | 05 03       | 05 30 | 05 43 | 18 55       | 19 08       | 19 35       | 20 03 |
| Thur 2  | 2396.5                  | 04 17 04                  | .. .. | 11 07 | -25 02                              | 0.66        | 04 34       | 05 02       | 05 29 | 05 42 | 18 56       | 19 09       | 19 36       | 20 04 |
| Fri 3   | 2397.5                  | 04 21 01                  | 00 27 | 12 02 | -23 07                              | 0.56        | 04 34       | 05 01       | 05 29 | 05 41 | 18 56       | 19 09       | 19 36       | 20 04 |
| Sat 4   | 2398.5                  | 04 24 57                  | 01 12 | 12 55 | -20 06                              | 0.46        | 04 33       | 05 01       | 05 28 | 05 41 | 18 57       | 19 10       | 19 37       | 20 05 |
| Sun 5   | 2399.5                  | 04 28 54                  | 01 52 | 13 46 | -16 16                              | 0.36        | 04 32       | 05 00       | 05 27 | 05 40 | 18 57       | 19 10       | 19 37       | 20 05 |
| Mon 6   | 2400.5                  | 04 32 51                  | 02 29 | 14 35 | -11 49                              | 0.27        | 04 31       | 04 59       | 05 27 | 05 40 | 18 57       | 19 10       | 19 38       | 20 06 |
| Tues 7  | 2401.5                  | 04 36 47                  | 03 03 | 15 24 | -06 56                              | 0.19        | 04 31       | 04 59       | 05 26 | 05 39 | 18 58       | 19 11       | 19 38       | 20 06 |
| Wed 8   | 2402.5                  | 04 40 44                  | 03 36 | 16 11 | -01 47                              | 0.12        | 04 30       | 04 58       | 05 26 | 05 39 | 18 58       | 19 11       | 19 39       | 20 07 |
| Thur 9  | 2403.5                  | 04 44 40                  | 04 09 | 17 00 | +03 27                              | 0.06        | 04 29       | 04 58       | 05 25 | 05 38 | 18 59       | 19 12       | 19 39       | 20 08 |
| Fri 10  | 2404.5                  | 04 48 37                  | 04 42 | 17 49 | +08 37                              | 0.02        | 04 29       | 04 57       | 05 25 | 05 38 | 18 59       | 19 12       | 19 40       | 20 08 |
| Sat 11  | 2405.5                  | 04 52 33                  | 05 18 | 18 41 | +13 30                              | 0.00        | 04 28       | 04 56       | 05 24 | 05 37 | 18 59       | 19 12       | 19 40       | 20 09 |
| Sun 12  | 2406.5                  | 04 56 30                  | 05 56 | 19 35 | +17 52                              | 0.00        | 04 28       | 04 56       | 05 24 | 05 37 | 19 00       | 19 13       | 19 41       | 20 09 |
| Mon 13  | 2407.5                  | 05 00 26                  | 06 38 | 20 31 | +21 26                              | 0.02        | 04 27       | 04 55       | 05 23 | 05 36 | 19 00       | 19 13       | 19 41       | 20 10 |
| Tues 14 | 2408.5                  | 05 04 23                  | 07 24 | 21 29 | +23 56                              | 0.07        | 04 26       | 04 55       | 05 23 | 05 36 | 19 01       | 19 14       | 19 42       | 20 10 |
| Wed 15  | 2409.5                  | 05 08 20                  | 08 16 | 22 26 | +25 05                              | 0.13        | 04 26       | 04 54       | 05 22 | 05 36 | 19 01       | 19 14       | 19 42       | 20 11 |
| Thur 16 | 2410.5                  | 05 12 16                  | 09 12 | 23 21 | +24 42                              | 0.22        | 04 25       | 04 54       | 05 22 | 05 35 | 19 01       | 19 15       | 19 43       | 20 11 |
| Fri 17  | 2411.5                  | 05 16 13                  | 10 12 | .. .. | +22 45                              | 0.32        | 04 25       | 04 54       | 05 22 | 05 35 | 19 02       | 19 15       | 19 43       | 20 12 |
| Sat 18  | 2412.5                  | 05 20 09                  | 11 13 | 00 13 | +19 19                              | 0.43        | 04 24       | 04 53       | 05 21 | 05 34 | 19 02       | 19 16       | 19 44       | 20 13 |
| Sun 19  | 2413.5                  | 05 24 06                  | 12 15 | 01 01 | +14 39                              | 0.54        | 04 24       | 04 53       | 05 21 | 05 34 | 19 03       | 19 16       | 19 44       | 20 13 |
| Mon 20  | 2414.5                  | 05 28 02                  | 13 16 | 01 46 | +09 02                              | 0.66        | 04 23       | 04 52       | 05 21 | 05 34 | 19 03       | 19 16       | 19 45       | 20 14 |
| Tues 21 | 2415.5                  | 05 31 59                  | 14 16 | 02 28 | +02 48                              | 0.77        | 04 23       | 04 52       | 05 20 | 05 34 | 19 04       | 19 17       | 19 45       | 20 14 |
| Wed 22  | 2416.5                  | 05 35 55                  | 15 16 | 03 09 | -03 40                              | 0.86        | 04 22       | 04 52       | 05 20 | 05 33 | 19 04       | 19 17       | 19 46       | 20 15 |
| Thur 23 | 2417.5                  | 05 39 52                  | 16 17 | 03 51 | -09 58                              | 0.94        | 04 22       | 04 51       | 05 20 | 05 33 | 19 04       | 19 18       | 19 46       | 20 15 |
| Fri 24  | 2418.5                  | 05 43 49                  | 17 19 | 04 34 | -15 40                              | 0.98        | 04 22       | 04 51       | 05 19 | 05 33 | 19 05       | 19 18       | 19 47       | 20 16 |
| Sat 25  | 2419.5                  | 05 47 45                  | 18 21 | 05 19 | .. ..                               | ....        | 04 21       | 04 51       | 05 19 | 05 32 | 19 05       | 19 19       | 19 47       | 20 17 |
| Sun 26  | 2420.5                  | 05 51 42                  | 19 24 | 06 08 | -20 22                              | 1.00        | 04 21       | 04 50       | 05 19 | 05 32 | 19 06       | 19 19       | 19 48       | 20 17 |
| Mon 27  | 2421.5                  | 05 55 38                  | 20 26 | 07 01 | -23 42                              | 0.99        | 04 21       | 04 50       | 05 19 | 05 32 | 19 06       | 19 20       | 19 48       | 20 18 |
| Tues 28 | 2422.5                  | 05 59 35                  | 21 24 | 07 56 | -25 27                              | 0.95        | 04 20       | 04 50       | 05 18 | 05 32 | 19 06       | 19 20       | 19 49       | 20 18 |
| Wed 29  | 2423.5                  | 06 03 31                  | 22 18 | 08 54 | -25 35                              | 0.89        | 04 20       | 04 50       | 05 18 | 05 32 | 19 07       | 19 20       | 19 49       | 20 19 |
| Thur 30 | 2424.5                  | 06 07 28                  | 23 06 | 09 50 | -24 13                              | 0.81        | 04 20       | 04 49       | 05 18 | 05 32 | 19 07       | 19 21       | 19 50       | 20 19 |
| Fri 31  | 2425.5                  | 06 11 24                  | 23 49 | 10 45 | -21 35                              | 0.72        | 04 20       | 04 49       | 05 18 | 05 32 | 19 08       | 19 21       | 19 50       | 20 20 |