

2019 - December

Calendar for ESO - La Silla

2019 - December

Longitude: W 070 44
Latitude : S 29 15

Height: 400m
Time Zone: -04h 00m

Zone Time = UT - 04h 00m

| Date | J.D. at Oh UT 245 | LMST at Oh UT h m s | Moon | | Moon Transit Dec. Phase 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 | 8818.5 | 23 55 19 | 10 01 | | -19 37 | 0.28 | 04 03 | 04 37 | 05 09 | 05 32 | 19 32 | 19 55 | 20 27 | 21 01 |
| Mon 2 | 8819.5 | 23 59 15 | 10 56 | 00 07 | -16 27 | 0.37 | 04 03 | 04 37 | 05 09 | 05 32 | 19 33 | 19 56 | 20 28 | 21 02 |
| Tues 3 | 8820.5 | 00 03 12 | 11 51 | 00 45 | -12 35 | 0.47 | 04 02 | 04 37 | 05 09 | 05 32 | 19 33 | 19 57 | 20 29 | 21 03 |
| Wed 4 | 8821.5 | 00 07 09 | 12 44 | 01 19 | -08 13 | 0.56 | 04 02 | 04 37 | 05 09 | 05 32 | 19 34 | 19 57 | 20 30 | 21 04 |
| Thur 5 | 8822.5 | 00 11 05 | 13 36 | 01 50 | -03 32 | 0.66 | 04 02 | 04 37 | 05 09 | 05 32 | 19 35 | 19 58 | 20 31 | 21 05 |
| Fri 6 | 8823.5 | 00 15 02 | 14 28 | 02 20 | +01 21 | 0.75 | 04 02 | 04 37 | 05 09 | 05 32 | 19 36 | 19 59 | 20 32 | 21 06 |
| Sat 7 | 8824.5 | 00 18 58 | 15 21 | 02 50 | +06 16 | 0.83 | 04 02 | 04 37 | 05 09 | 05 32 | 19 36 | 20 00 | 20 32 | 21 07 |
| Sun 8 | 8825.5 | 00 22 55 | 16 15 | 03 21 | +11 02 | 0.90 | 04 02 | 04 37 | 05 09 | 05 33 | 19 37 | 20 01 | 20 33 | 21 08 |
| Mon 9 | 8826.5 | 00 26 51 | 17 11 | 03 55 | +15 26 | 0.95 | 04 02 | 04 37 | 05 09 | 05 33 | 19 38 | 20 01 | 20 34 | 21 09 |
| Tues 10 | 8827.5 | 00 30 48 | 18 10 | 04 31 | +19 14 | 0.99 | 04 02 | 04 37 | 05 10 | 05 33 | 19 39 | 20 02 | 20 35 | 21 10 |
| Wed 11 | 8828.5 | 00 34 44 | 19 10 | 05 12 | | | 04 02 | 04 37 | 05 10 | 05 33 | 19 39 | 20 03 | 20 35 | 21 10 |
| Thur 12 | 8829.5 | 00 38 41 | 20 11 | 05 59 | +22 05 | 1.00 | 04 02 | 04 37 | 05 10 | 05 33 | 19 40 | 20 03 | 20 36 | 21 11 |
| Fri 13 | 8830.5 | 00 42 38 | 21 10 | 06 51 | +23 44 | 0.99 | 04 02 | 04 37 | 05 10 | 05 34 | 19 41 | 20 04 | 20 37 | 21 12 |
| Sat 14 | 8831.5 | 00 46 34 | 22 05 | 07 50 | +23 55 | 0.95 | 04 03 | 04 38 | 05 10 | 05 34 | 19 41 | 20 05 | 20 38 | 21 13 |
| Sun 15 | 8832.5 | 00 50 31 | 22 56 | 08 52 | +22 33 | 0.89 | 04 03 | 04 38 | 05 11 | 05 34 | 19 42 | 20 05 | 20 38 | 21 13 |
| Mon 16 | 8833.5 | 00 54 27 | 23 41 | 09 57 | +19 44 | 0.80 | 04 03 | 04 38 | 05 11 | 05 35 | 19 42 | 20 06 | 20 39 | 21 14 |
| Tues 17 | 8834.5 | 00 58 24 | | 11 02 | +15 41 | 0.70 | 04 03 | 04 38 | 05 11 | 05 35 | 19 43 | 20 07 | 20 40 | 21 15 |
| Wed 18 | 8835.5 | 01 02 20 | 00 23 | 12 07 | +10 42 | 0.59 | 04 04 | 04 39 | 05 12 | 05 35 | 19 44 | 20 07 | 20 40 | 21 15 |
| Thur 19 | 8836.5 | 01 06 17 | 01 01 | 13 10 | +05 08 | 0.47 | 04 04 | 04 39 | 05 12 | 05 36 | 19 44 | 20 08 | 20 41 | 21 16 |
| Fri 20 | 8837.5 | 01 10 14 | 01 38 | 14 13 | -00 41 | 0.35 | 04 04 | 04 40 | 05 13 | 05 36 | 19 45 | 20 08 | 20 41 | 21 16 |
| Sat 21 | 8838.5 | 01 14 10 | 02 14 | 15 16 | -06 26 | 0.25 | 04 05 | 04 40 | 05 13 | 05 37 | 19 45 | 20 09 | 20 42 | 21 17 |
| Sun 22 | 8839.5 | 01 18 07 | 02 52 | 16 20 | -11 46 | 0.15 | 04 05 | 04 41 | 05 14 | 05 37 | 19 46 | 20 09 | 20 42 | 21 17 |
| Mon 23 | 8840.5 | 01 22 03 | 03 32 | 17 24 | -16 22 | 0.08 | 04 06 | 04 41 | 05 14 | 05 38 | 19 46 | 20 10 | 20 43 | 21 18 |
| Tues 24 | 8841.5 | 01 26 00 | 04 16 | 18 27 | -19 56 | 0.03 | 04 06 | 04 42 | 05 15 | 05 38 | 19 47 | 20 10 | 20 43 | 21 18 |
| Wed 25 | 8842.5 | 01 29 56 | 05 03 | 19 28 | -22 14 | 0.00 | 04 07 | 04 42 | 05 15 | 05 39 | 19 47 | 20 11 | 20 44 | 21 19 |
| Thur 26 | 8843.5 | 01 33 53 | 05 55 | 20 24 | -23 07 | 0.00 | 04 08 | 04 43 | 05 16 | 05 39 | 19 47 | 20 11 | 20 44 | 21 19 |
| Fri 27 | 8844.5 | 01 37 49 | 06 50 | 21 15 | -22 36 | 0.03 | 04 08 | 04 43 | 05 16 | 05 40 | 19 48 | 20 11 | 20 44 | 21 19 |
| Sat 28 | 8845.5 | 01 41 46 | 07 47 | 22 01 | -20 49 | 0.07 | 04 09 | 04 44 | 05 17 | 05 41 | 19 48 | 20 12 | 20 45 | 21 20 |
| Sun 29 | 8846.5 | 01 45 43 | 08 44 | 22 41 | -17 59 | 0.13 | 04 10 | 04 45 | 05 18 | 05 41 | 19 49 | 20 12 | 20 45 | 21 20 |
| Mon 30 | 8847.5 | 01 49 39 | 09 39 | 23 17 | -14 22 | 0.20 | 04 10 | 04 46 | 05 18 | 05 42 | 19 49 | 20 12 | 20 45 | 21 20 |
| Tues 31 | 8848.5 | 01 53 36 | 10 33 | 23 50 | -10 10 | 0.29 | 04 11 | 04 46 | 05 19 | 05 43 | 19 49 | 20 13 | 20 45 | 21 20 |