

2019 - January

Calendar for ESO - La Silla

2019 - January

Longitude: W 070 44  
Latitude : S 29 15

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

Zone Time = UT - 04h 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 ' " | 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   |
| Tues 1  | 8484.5                  | 01 58 30                  | 02 30 | 16 01 | -12 38                              | 0.19        | 04 12       | 04 47       | 05 20 | 05 43 | 19 49       | 20 13       | 20 46       | 21 20 |
| Wed 2   | 8485.5                  | 02 02 26                  | 03 09 | 16 58 | -16 17                              | 0.11        | 04 13       | 04 48       | 05 21 | 05 44 | 19 50       | 20 13       | 20 46       | 21 21 |
| Thur 3  | 8486.5                  | 02 06 23                  | 03 50 | 17 54 | -19 02                              | 0.06        | 04 14       | 04 49       | 05 21 | 05 45 | 19 50       | 20 13       | 20 46       | 21 21 |
| Fri 4   | 8487.5                  | 02 10 19                  | 04 34 | 18 48 | -20 46                              | 0.02        | 04 15       | 04 50       | 05 22 | 05 46 | 19 50       | 20 13       | 20 46       | 21 21 |
| Sat 5   | 8488.5                  | 02 14 16                  | 05 22 | 19 38 | -21 25                              | 0.00        | 04 16       | 04 50       | 05 23 | 05 46 | 19 50       | 20 13       | 20 46       | 21 21 |
| Sun 6   | 8489.5                  | 02 18 12                  | 06 12 | 20 26 | -20 59                              | 0.00        | 04 17       | 04 51       | 05 24 | 05 47 | 19 50       | 20 13       | 20 46       | 21 20 |
| Mon 7   | 8490.5                  | 02 22 09                  | 07 03 | 21 09 | -19 30                              | 0.03        | 04 18       | 04 52       | 05 25 | 05 48 | 19 50       | 20 14       | 20 46       | 21 20 |
| Tues 8  | 8491.5                  | 02 26 06                  | 07 56 | 21 48 | -17 07                              | 0.07        | 04 19       | 04 53       | 05 25 | 05 49 | 19 50       | 20 14       | 20 46       | 21 20 |
| Wed 9   | 8492.5                  | 02 30 02                  | 08 49 | 22 24 | -13 58                              | 0.12        | 04 20       | 04 54       | 05 26 | 05 49 | 19 50       | 20 14       | 20 46       | 21 20 |
| Thur 10 | 8493.5                  | 02 33 59                  | 09 42 | 22 58 | -10 12                              | 0.19        | 04 21       | 04 55       | 05 27 | 05 50 | 19 50       | 20 13       | 20 46       | 21 20 |
| Fri 11  | 8494.5                  | 02 37 55                  | 10 34 | 23 31 | -05 59                              | 0.27        | 04 22       | 04 56       | 05 28 | 05 51 | 19 50       | 20 13       | 20 46       | 21 20 |
| Sat 12  | 8495.5                  | 02 41 52                  | 11 27 | .. .. | -01 26                              | 0.37        | 04 23       | 04 57       | 05 29 | 05 52 | 19 50       | 20 13       | 20 45       | 21 19 |
| Sun 13  | 8496.5                  | 02 45 48                  | 12 20 | 00 03 | +03 16                              | 0.47        | 04 24       | 04 58       | 05 30 | 05 53 | 19 50       | 20 13       | 20 45       | 21 19 |
| Mon 14  | 8497.5                  | 02 49 45                  | 13 15 | 00 35 | +07 58                              | 0.57        | 04 25       | 04 59       | 05 31 | 05 54 | 19 50       | 20 13       | 20 45       | 21 19 |
| Tues 15 | 8498.5                  | 02 53 41                  | 14 13 | 01 10 | +12 28                              | 0.67        | 04 26       | 05 00       | 05 31 | 05 54 | 19 50       | 20 13       | 20 45       | 21 18 |
| Wed 16  | 8499.5                  | 02 57 38                  | 15 13 | 01 47 | +16 30                              | 0.77        | 04 27       | 05 01       | 05 32 | 05 55 | 19 50       | 20 13       | 20 44       | 21 18 |
| Thur 17 | 8500.5                  | 03 01 35                  | 16 16 | 02 30 | +19 44                              | 0.86        | 04 28       | 05 01       | 05 33 | 05 56 | 19 50       | 20 12       | 20 44       | 21 18 |
| Fri 18  | 8501.5                  | 03 05 31                  | 17 20 | 03 18 | +21 48                              | 0.94        | 04 29       | 05 02       | 05 34 | 05 57 | 19 49       | 20 12       | 20 44       | 21 17 |
| Sat 19  | 8502.5                  | 03 09 28                  | 18 25 | 04 13 | +22 20                              | 0.98        | 04 30       | 05 03       | 05 35 | 05 58 | 19 49       | 20 12       | 20 43       | 21 17 |
| Sun 20  | 8503.5                  | 03 13 24                  | 19 26 | 05 16 | .. ..                               | ....        | 04 31       | 05 04       | 05 36 | 05 59 | 19 49       | 20 11       | 20 43       | 21 16 |
| Mon 21  | 8504.5                  | 03 17 21                  | 20 22 | 06 23 | +21 10                              | 1.00        | 04 32       | 05 05       | 05 37 | 06 00 | 19 48       | 20 11       | 20 42       | 21 15 |
| Tues 22 | 8505.5                  | 03 21 17                  | 21 13 | 07 33 | +18 22                              | 0.98        | 04 33       | 05 06       | 05 38 | 06 00 | 19 48       | 20 11       | 20 42       | 21 15 |
| Wed 23  | 8506.5                  | 03 25 14                  | 21 58 | 08 42 | +14 16                              | 0.94        | 04 35       | 05 08       | 05 39 | 06 01 | 19 48       | 20 10       | 20 42       | 21 14 |
| Thur 24 | 8507.5                  | 03 29 10                  | 22 39 | 09 50 | +09 17                              | 0.86        | 04 36       | 05 09       | 05 40 | 06 02 | 19 47       | 20 10       | 20 41       | 21 14 |
| Fri 25  | 8508.5                  | 03 33 07                  | 23 17 | 10 54 | +03 53                              | 0.77        | 04 37       | 05 10       | 05 41 | 06 03 | 19 47       | 20 09       | 20 40       | 21 13 |
| Sat 26  | 8509.5                  | 03 37 04                  | 23 54 | 11 56 | -01 33                              | 0.66        | 04 38       | 05 11       | 05 42 | 06 04 | 19 47       | 20 09       | 20 40       | 21 12 |
| Sun 27  | 8510.5                  | 03 41 00                  | .. .. | 12 57 | -06 42                              | 0.55        | 04 39       | 05 12       | 05 43 | 06 05 | 19 46       | 20 08       | 20 39       | 21 12 |
| Mon 28  | 8511.5                  | 03 44 57                  | 00 31 | 13 56 | -11 20                              | 0.44        | 04 40       | 05 13       | 05 43 | 06 06 | 19 46       | 20 08       | 20 39       | 21 11 |
| Tues 29 | 8512.5                  | 03 48 53                  | 01 09 | 14 53 | -15 14                              | 0.33        | 04 41       | 05 14       | 05 44 | 06 07 | 19 45       | 20 07       | 20 38       | 21 10 |
| Wed 30  | 8513.5                  | 03 52 50                  | 01 50 | 15 49 | -18 17                              | 0.24        | 04 43       | 05 15       | 05 45 | 06 07 | 19 45       | 20 07       | 20 37       | 21 09 |
| Thur 31 | 8514.5                  | 03 56 46                  | 02 33 | 16 43 | -20 20                              | 0.16        | 04 44       | 05 16       | 05 46 | 06 08 | 19 44       | 20 06       | 20 37       | 21 08 |