

2009 - November

Calendar for ESO - La Silla

2009 - November

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<br>h m | Set<br>h m |                                     | Astr. Twil.<br>h m | Naut. Twil.<br>h m | Civil Twil.<br>h m | Rise<br>h m | Set<br>h m | Civil Twil.<br>h m | Naut. Twil.<br>h m | Astr. Twil.<br>h m |       |
| Sun 1   | 5136.5                  | 21 58 44                  | 18 10       | 04 43      | +17 27                              | 0.99               | 04 24              | 04 54              | 05 24       | 05 46      | 19 08              | 19 29              | 19 59              | 20 30 |
| Mon 2   | 5137.5                  | 22 02 41                  | 19 13       | 05 21      | .. ..                               | ....               | 04 23              | 04 53              | 05 23       | 05 45      | 19 08              | 19 30              | 20 00              | 20 31 |
| Tues 3  | 5138.5                  | 22 06 37                  | 20 19       | 06 04      | +21 51                              | 1.00               | 04 22              | 04 53              | 05 22       | 05 44      | 19 09              | 19 31              | 20 01              | 20 32 |
| Wed 4   | 5139.5                  | 22 10 34                  | 21 25       | 06 54      | +25 01                              | 0.97               | 04 21              | 04 52              | 05 22       | 05 43      | 19 10              | 19 32              | 20 02              | 20 33 |
| Thur 5  | 5140.5                  | 22 14 30                  | 22 27       | 07 51      | +26 35                              | 0.92               | 04 20              | 04 51              | 05 21       | 05 43      | 19 11              | 19 33              | 20 03              | 20 34 |
| Fri 6   | 5141.5                  | 22 18 27                  | 23 23       | 08 55      | +26 18                              | 0.85               | 04 19              | 04 50              | 05 20       | 05 42      | 19 12              | 19 34              | 20 04              | 20 35 |
| Sat 7   | 5142.5                  | 22 22 23                  | .. ..       | 10 02      | +24 12                              | 0.75               | 04 18              | 04 49              | 05 19       | 05 41      | 19 12              | 19 34              | 20 05              | 20 36 |
| Sun 8   | 5143.5                  | 22 26 20                  | 00 12       | 11 10      | +20 29                              | 0.64               | 04 17              | 04 48              | 05 19       | 05 41      | 19 13              | 19 35              | 20 06              | 20 37 |
| Mon 9   | 5144.5                  | 22 30 16                  | 00 55       | 12 16      | +15 33                              | 0.53               | 04 16              | 04 48              | 05 18       | 05 40      | 19 14              | 19 36              | 20 07              | 20 38 |
| Tues 10 | 5145.5                  | 22 34 13                  | 01 33       | 13 20      | +09 47                              | 0.41               | 04 15              | 04 47              | 05 17       | 05 39      | 19 15              | 19 37              | 20 08              | 20 39 |
| Wed 11  | 5146.5                  | 22 38 10                  | 02 08       | 14 23      | +03 34                              | 0.30               | 04 14              | 04 46              | 05 17       | 05 39      | 19 16              | 19 38              | 20 09              | 20 41 |
| Thur 12 | 5147.5                  | 22 42 06                  | 02 41       | 15 25      | -02 45                              | 0.20               | 04 13              | 04 45              | 05 16       | 05 38      | 19 16              | 19 39              | 20 09              | 20 42 |
| Fri 13  | 5148.5                  | 22 46 03                  | 03 14       | 16 27      | -08 50                              | 0.12               | 04 12              | 04 45              | 05 15       | 05 38      | 19 17              | 19 40              | 20 10              | 20 43 |
| Sat 14  | 5149.5                  | 22 49 59                  | 03 49       | 17 29      | -14 22                              | 0.06               | 04 12              | 04 44              | 05 15       | 05 37      | 19 18              | 19 40              | 20 11              | 20 44 |
| Sun 15  | 5150.5                  | 22 53 56                  | 04 26       | 18 31      | -19 04                              | 0.02               | 04 11              | 04 43              | 05 14       | 05 37      | 19 19              | 19 41              | 20 12              | 20 45 |
| Mon 16  | 5151.5                  | 22 57 52                  | 05 07       | 19 32      | -22 39                              | 0.00               | 04 10              | 04 43              | 05 14       | 05 36      | 19 20              | 19 42              | 20 13              | 20 46 |
| Tues 17 | 5152.5                  | 23 01 49                  | 05 52       | 20 31      | -24 54                              | 0.01               | 04 09              | 04 42              | 05 13       | 05 36      | 19 21              | 19 43              | 20 14              | 20 47 |
| Wed 18  | 5153.5                  | 23 05 45                  | 06 42       | 21 25      | -25 44                              | 0.04               | 04 09              | 04 42              | 05 13       | 05 35      | 19 21              | 19 44              | 20 15              | 20 48 |
| Thur 19 | 5154.5                  | 23 09 42                  | 07 35       | 22 14      | -25 08                              | 0.09               | 04 08              | 04 41              | 05 12       | 05 35      | 19 22              | 19 45              | 20 16              | 20 49 |
| Fri 20  | 5155.5                  | 23 13 39                  | 08 31       | 22 57      | -23 15                              | 0.15               | 04 08              | 04 40              | 05 12       | 05 34      | 19 23              | 19 46              | 20 17              | 20 50 |
| Sat 21  | 5156.5                  | 23 17 35                  | 09 27       | 23 35      | -20 16                              | 0.23               | 04 07              | 04 40              | 05 11       | 05 34      | 19 24              | 19 47              | 20 18              | 20 51 |
| Sun 22  | 5157.5                  | 23 21 32                  | 10 22       | .. ..      | -16 24                              | 0.31               | 04 06              | 04 40              | 05 11       | 05 34      | 19 25              | 19 48              | 20 19              | 20 53 |
| Mon 23  | 5158.5                  | 23 25 28                  | 11 16       | 00 09      | -11 51                              | 0.41               | 04 06              | 04 39              | 05 11       | 05 34      | 19 26              | 19 48              | 20 20              | 20 54 |
| Tues 24 | 5159.5                  | 23 29 25                  | 12 10       | 00 40      | -06 48                              | 0.50               | 04 05              | 04 39              | 05 10       | 05 33      | 19 26              | 19 49              | 20 21              | 20 55 |
| Wed 25  | 5160.5                  | 23 33 21                  | 13 03       | 01 09      | -01 23                              | 0.60               | 04 05              | 04 38              | 05 10       | 05 33      | 19 27              | 19 50              | 20 22              | 20 56 |
| Thur 26 | 5161.5                  | 23 37 18                  | 13 57       | 01 38      | +04 12                              | 0.70               | 04 04              | 04 38              | 05 10       | 05 33      | 19 28              | 19 51              | 20 23              | 20 57 |
| Fri 27  | 5162.5                  | 23 41 14                  | 14 53       | 02 07      | +09 47                              | 0.79               | 04 04              | 04 38              | 05 10       | 05 33      | 19 29              | 19 52              | 20 24              | 20 58 |
| Sat 28  | 5163.5                  | 23 45 11                  | 15 52       | 02 38      | +15 08                              | 0.87               | 04 04              | 04 38              | 05 10       | 05 33      | 19 30              | 19 53              | 20 25              | 20 59 |
| Sun 29  | 5164.5                  | 23 49 08                  | 16 54       | 03 13      | +19 54                              | 0.94               | 04 03              | 04 37              | 05 09       | 05 32      | 19 31              | 19 54              | 20 26              | 21 00 |
| Mon 30  | 5165.5                  | 23 53 04                  | 18 00       | 03 54      | +23 42                              | 0.98               | 04 03              | 04 37              | 05 09       | 05 32      | 19 31              | 19 54              | 20 27              | 21 01 |