

June 01, 2017 12:00:00 PM MDT

| Object | Right ascens | Declination | Earth distance | Sun distance |
|---------|--------------|--------------|----------------|---------------|
| Sun | 04h 39m 22s | +22° 08' 26" | 0 | 0 |
| Mercury | 03h 16m 32s | +15° 47' 56" | 161,824,707 | 56,818,781 |
| Venus | 01h 38m 00s | +07° 51' 27" | 102,621,234 | 108,908,014 |
| Mars | 05h 51m 19s | +24° 17' 36" | 379,110,863 | 237,787,679 |
| Ceres | 04h 48m 46s | +21° 36' 41" | 558,000,058 | 405,410,230 |
| Jupiter | 12h 51m 13s | -03° 55' 52" | 725,470,045 | 815,886,067 |
| Saturn | 17h 40m 36s | -21° 59' 36" | 1,357,036,316 | 1,504,585,794 |
| Uranus | 01h 41m 09s | +09° 53' 12" | 3,087,340,732 | 2,980,759,589 |
| Neptune | 23h 03m 11s | -07° 02' 13" | 4,485,148,757 | 4,480,255,308 |
| Pluto | 19h 21m 44s | -21° 16' 28" | 4,866,492,151 | 4,987,544,509 |
| Moon | 11h 03m 49s | +07° 06' 48" | 386,084 | 0 |

(Distances in km)

| Object | Rise: | Tran | Set: | Phase | Constl | Magnitud |
|---------|-------|-------|-------|--------|--------|----------|
| Sun | 05:34 | 12:58 | 20:22 | 0.00% | Tau | unknown |
| Mercury | 04:38 | 11:35 | 18:34 | 67.38% | Ari | -0.4 |
| Venus | 03:28 | 09:56 | 16:26 | 48.60% | Psc | -4.3 |
| Mars | 06:39 | 14:10 | 21:40 | 99.16% | Tau | 1.7 |
| Ceres | 05:49 | 13:08 | 20:26 | 99.50% | Tau | 8.5 |
| Jupiter | 15:19 | 21:08 | 03:01 | 99.37% | Vir | -2.3 |
| Saturn | 21:12 | 02:01 | 06:45 | 99.98% | Oph | 0.1 |
| Uranus | 03:25 | 10:00 | 16:35 | 99.97% | Psc | 5.9 |
| Neptune | 01:44 | 07:22 | 13:01 | 99.97% | Aqr | 7.9 |
| Pluto | 22:49 | 03:40 | 08:28 | 99.99% | Sgr | 14.2 |
| Moon | 12:59 | 19:35 | 01:32 | 51.99% | Leo | unknown |

Meteor Radiant Report

| Name | Month/Day | RA | Decl | Hourly Rate |
|-----------------------|-----------|------|-------|-------------|
| Tau Herculids | 06/03 | 15.2 | 39.0 | 15 |
| Chi Scorpiids | 06/05 | 16.5 | -13.0 | 10 |
| Daytime Arietids | 06/07 | 2.9 | 23.0 | 50 |
| Daytime Zeta Perseids | 06/07 | 4.1 | 23.0 | 40 |
| Librids | 06/08 | 15.2 | -28.3 | 10 |
| Sagittariids | 06/11 | 20.3 | -35.0 | 30 |
| Theta Ophiuchids | 06/13 | 17.8 | -28.0 | 2 |
| June Lyrids | 06/16 | 18.5 | 35.0 | 9 |
| Corvids | 06/26 | 12.8 | -19.1 | 13 |
| Draconids | 06/28 | 16.9 | 56.0 | 5 |
| June Bootids | 06/28 | 14.6 | 49.0 | 6 |
| Daytime Beta Taurids | 06/29 | 5.7 | 19.0 | 25 |

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| Date | Moonrise | Moonset | Sunrise | Sunset | Begin Twilight | End Twilight |
|---------|----------|---------|---------|--------|-------------------|-----------------|
| 6/1/17 | 13:00 | 01:32 | 05:35 | 20:21 | 03:37 | 22:19 |
| 6/2/17 | 14:00 | 02:05 | 05:34 | 20:22 | 03:37 | 22:20 |
| 6/3/17 | 14:59 | 02:35 | 05:34 | 20:23 | 03:36 | 22:21 |
| 6/4/17 | 15:57 | 03:05 | 05:34 | 20:23 | 03:35 | 22:22 |
| 6/5/17 | 16:54 | 03:35 | 05:33 | 20:24 | 03:35 | 22:23 |
| 6/6/17 | 17:51 | 04:06 | 05:33 | 20:25 | 03:34 | 22:24 |
| 6/7/17 | 18:46 | 04:39 | 05:33 | 20:25 | 03:33 | 22:25 |
| 6/8/17 | 19:41 | 05:15 | 05:33 | 20:26 | 03:33 | 22:26 |
| 6/9/17 | 20:33 | 05:55 | 05:33 | 20:26 | 03:33 | 22:26 |
| 6/10/17 | 21:23 | 06:38 | 05:32 | 20:27 | 03:32 | 22:27 |
| 6/11/17 | 22:09 | 07:26 | 05:32 | 20:27 | 03:32 | 22:28 |
| 6/12/17 | 22:52 | 08:17 | 05:32 | 20:28 | 03:32 | 22:29 |
| 6/13/17 | 23:32 | 09:12 | 05:32 | 20:28 | 03:31 | 22:29 |
| 6/14/17 | ----- | 10:09 | 05:32 | 20:29 | 03:31 | 22:30 |
| 6/15/17 | 00:08 | 11:09 | 05:32 | 20:29 | 03:31 | 22:30 |
| 6/16/17 | 00:42 | 12:10 | 05:32 | 20:29 | 03:31 | 22:31 |
| 6/17/17 | 01:15 | 13:14 | 05:32 | 20:30 | 03:31 | 22:31 |
| 6/18/17 | 01:48 | 14:19 | 05:33 | 20:30 | 03:31 | 22:31 |
| 6/19/17 | 02:22 | 15:27 | 05:33 | 20:30 | 03:31 | 22:32 |
| 6/20/17 | 02:59 | 16:37 | 05:33 | 20:30 | 03:31 | 22:32 |
| 6/21/17 | 03:40 | 17:49 | 05:33 | 20:31 | 03:32 | 22:32 |
| 6/22/17 | 04:26 | 19:00 | 05:33 | 20:31 | 03:32 | 22:32 |
| 6/23/17 | 05:20 | 20:07 | 05:34 | 20:31 | 03:32 | 22:32 |
| 6/24/17 | 06:19 | 21:09 | 05:34 | 20:31 | 03:32 | 22:32 |
| 6/25/17 | 07:25 | 22:03 | 05:34 | 20:31 | 03:33 | 22:32 |
| 6/26/17 | 08:32 | 22:50 | 05:35 | 20:31 | 03:33 | 22:32 |
| 6/27/17 | 09:41 | 23:31 | 05:35 | 20:31 | 03:34 | 22:32 |
| 6/28/17 | 10:46 | ----- | 05:35 | 20:31 | 03:34 | 22:32 |
| 6/29/17 | 11:50 | 00:06 | 05:36 | 20:31 | 03:35 | 22:32 |
| 6/30/17 | 12:51 | 00:38 | 05:36 | 20:31 | 03:36 | 22:31 |