

June 01, 2019 12:00:00 PM MDT

Object	Right ascens	Declination	Earth distance	Sun distance
Sun	04h 37m 33.6s	+22° 05' 00"	0	0
Mercury	05h 33m 44.7s	+25° 09' 19"	182,437,886	49,132,782
Venus	03h 16m 00.2s	+16° 48' 56"	237,987,913	108,443,583
Mars	06h 46m 57.1s	+24° 09' 30"	363,755,264	243,970,692
Ceres	16h 19m 53.4s	-17° 45' 11"	263,292,252	414,386,102
Jupiter	17h 19m 17.2s	-22° 30' 18"	643,260,481	793,225,889
Saturn	19h 24m 59.5s	-21° 37' 53"	1,382,422,199	1,503,783,654
Uranus	02h 10m 22.5s	+12° 37' 32"	3,089,636,201	2,968,679,003
Neptune	23h 19m 42.9s	-05° 25' 30"	4,496,064,325	4,478,393,680
Pluto	19h 38m 47.4s	-21° 51' 04"	4,944,077,746	5,058,096,536
Moon	03h 15m 09.8s	+13° 06' 41"	384,769	0

(Distances in km)

Object	Rise:	Tran	Set:	Phase	Constl	Magnitud
Sun	05:34	12:58	20:22	0.00%	Tau	unknown
Mercury	06:18	13:54	21:32	85.39%	Tau	-1.1
Venus	04:35	11:36	18:38	93.96%	Ari	-3.9
Mars	07:36	15:07	22:38	97.56%	Gem	1.8
Ceres	19:39	00:39	05:44	99.50%	Sco	7.0
Jupiter	20:55	01:41	06:23	99.97%	Oph	-2.6
Saturn	22:57	03:47	08:32	99.90%	Sgr	0.3
Uranus	03:46	10:31	17:16	99.98%	Ari	5.9
Neptune	01:57	07:41	13:25	99.97%	Aqr	7.9
Pluto	23:11	03:59	08:44	99.99%	Sgr	14.2
Moon	04:40	11:34	18:36	3.43%	Ari	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
6/1/19	04:40	18:38	05:34	20:22	03:36	22:20
6/2/19	05:15	19:45	05:34	20:22	03:36	22:21
6/3/19	05:56	20:51	05:34	20:23	03:35	22:22
6/4/19	06:44	21:55	05:33	20:24	03:34	22:23
6/5/19	07:40	22:54	05:33	20:24	03:34	22:24
6/6/19	08:43	23:46	05:33	20:25	03:33	22:25
6/7/19	09:52	-----	05:32	20:26	03:32	22:26
6/8/19	11:02	00:31	05:32	20:26	03:32	22:27
6/9/19	12:13	01:10	05:32	20:27	03:31	22:28
6/10/19	13:23	01:44	05:32	20:27	03:31	22:28
6/11/19	14:32	02:16	05:32	20:28	03:31	22:29
6/12/19	15:40	02:47	05:32	20:28	03:30	22:30
6/13/19	16:47	03:18	05:32	20:29	03:30	22:30
6/14/19	17:54	03:50	05:32	20:29	03:30	22:31
6/15/19	19:00	04:26	05:32	20:29	03:30	22:32
6/16/19	20:03	05:06	05:32	20:30	03:30	22:32
6/17/19	21:01	05:51	05:32	20:30	03:30	22:32
6/18/19	21:53	06:40	05:32	20:30	03:30	22:33
6/19/19	22:38	07:34	05:32	20:31	03:30	22:33
6/20/19	23:18	08:30	05:32	20:31	03:30	22:33
6/21/19	23:53	09:28	05:32	20:31	03:30	22:34
6/22/19	-----	10:25	05:33	20:31	03:30	22:34
6/23/19	00:23	11:24	05:33	20:32	03:30	22:34
6/24/19	00:51	12:21	05:33	20:32	03:31	22:34
6/25/19	01:17	13:19	05:33	20:32	03:31	22:34
6/26/19	01:43	14:17	05:34	20:32	03:32	22:34
6/27/19	02:10	15:18	05:34	20:32	03:32	22:34
6/28/19	02:38	16:20	05:35	20:32	03:33	22:34
6/29/19	03:11	17:26	05:35	20:32	03:33	22:33
6/30/19	03:48	18:32	05:35	20:32	03:34	

22:33'-----' means the event does not occur on this date.