

July 01, 2020 12:00:00 PM MDT

Object	Right ascens	Declination	Earth distance	Sun distance
Sun	06h 44m 50.1s	+23° 02' 09"	0	0
Mercury	06h 39m 32.1s	+18° 35' 16"	84,402,929	68,303,479
Venus	04h 19m 51.9s	+17° 14' 05"	58,604,365	108,919,984
Mars	00h 13m 00.9s	-02° 01' 26"	121,741,730	207,793,810
Ceres	23h 14m 28.6s	-17° 57' 30"	356,042,932	445,801,655
Jupiter	19h 43m 28.7s	-21° 36' 35"	623,369,268	772,015,003
Saturn	20h 08m 59.0s	-20° 20' 33"	1,353,916,473	1,497,980,106
Uranus	02h 30m 30.8s	+14° 20' 55"	3,033,545,760	2,961,419,296
Neptune	23h 28m 24.8s	-04° 34' 59"	4,424,720,610	4,477,454,592
Pluto	19h 44m 35.4s	-22° 15' 24"	4,949,147,425	5,096,983,551
Moon	15h 34m 45.2s	-16° 32' 59"	369,899	0

(Distances in km)

Object	Rise:	Tran	Set:	Phase	Constl	Magnitud
Sun	05:36	13:03	20:31	0.00%	Gem	unknown
Mercury	05:51	12:57	20:03	0.81%	Gem	5.0
Venus	03:36	10:38	17:40	19.31%	Tau	-4.5
Mars	00:36	06:32	12:28	84.46%	Psc	-0.5
Ceres	00:30	05:31	10:35	99.50%	Aqr	8.6
Jupiter	21:13	01:59	06:49	99.95%	Sgr	-2.7
Saturn	21:34	02:25	07:20	99.97%	Cap	0.2
Uranus	01:58	08:49	15:40	99.95%	Ari	5.8
Neptune	23:57	05:44	11:34	99.97%	Aqr	7.9
Pluto	21:16	01:59	06:46	100.00%	Sgr	14.3
Moon	17:03	22:15	02:44	85.21%	Lib	unknown

Meteor Radiant Report

Name	Month/Day	RA	Decl	Hourly Rate
Epsilon Pegasids	07/09	22.7	15.0	8
July Phoenicids	07/14	2.1	-47.9	30
Omicron Draconids	07/16	18.1	59.0	3
Capricornids	07/22	20.9	-23.0	4
Southern Delta Aquarids	07/29	22.2	-16.5	30
Alpha Capricornids	07/30	20.5	-10.0	30

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Date	Moonrise	Moonset	Sunrise	Sunset	Begin Twilight	End Twilight
7/1/20	17:06	02:44	05:36	20:30	03:36	22:31
7/2/20	18:17	03:22	05:37	20:30	03:36	22:30
7/3/20	19:25	04:06	05:37	20:30	03:37	22:30
7/4/20	20:26	04:57	05:38	20:30	03:38	22:29
7/5/20	21:20	05:54	05:38	20:29	03:39	22:29
7/6/20	22:05	06:56	05:39	20:29	03:40	22:28
7/7/20	22:42	08:00	05:39	20:29	03:41	22:27
7/8/20	23:14	09:03	05:40	20:29	03:42	22:27
7/9/20	23:42	10:04	05:41	20:28	03:43	22:26
7/10/20	-----	11:04	05:41	20:28	03:44	22:25
7/11/20	00:07	12:03	05:42	20:27	03:45	22:24
7/12/20	00:31	13:00	05:43	20:27	03:46	22:23
7/13/20	00:55	13:58	05:43	20:26	03:47	22:22
7/14/20	01:20	14:57	05:44	20:26	03:48	22:21
7/15/20	01:47	15:57	05:45	20:25	03:49	22:20
7/16/20	02:18	16:58	05:46	20:25	03:51	22:19
7/17/20	02:55	18:00	05:46	20:24	03:52	22:18
7/18/20	03:39	19:00	05:47	20:23	03:53	22:17
7/19/20	04:30	19:57	05:48	20:23	03:54	22:16
7/20/20	05:31	20:47	05:49	20:22	03:56	22:15
7/21/20	06:37	21:31	05:50	20:21	03:57	22:13
7/22/20	07:48	22:09	05:51	20:20	03:58	22:12
7/23/20	09:00	22:43	05:51	20:20	03:59	22:11
7/24/20	10:12	23:14	05:52	20:19	04:01	22:10
7/25/20	11:23	23:44	05:53	20:18	04:02	22:08
7/26/20	12:34	-----	05:54	20:17	04:03	22:07
7/27/20	13:45	00:13	05:55	20:16	04:05	22:05
7/28/20	14:55	00:45	05:56	20:15	04:06	22:04
7/29/20	16:06	01:21	05:57	20:14	04:08	22:03
7/30/20	17:14	02:02	05:57	20:13	04:09	22:01
7/31/20	18:16	02:49	05:58	20:12	04:10	22:00

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