

July 01, 2021 12:00:00 PM MDT

Object	Right ascens	Declination	Earth distance	Sun distance
Sun	06h 43m 49.1s	+23° 03' 16"	0	0
Mercury	05h 14m 09.1s	+19° 23' 02"	116,451,932	60,553,030
Venus	08h 33m 05.1s	+20° 28' 56"	222,730,249	107,576,836
Mars	09h 01m 06.5s	+18° 15' 23"	363,834,773	249,128,641
Ceres	03h 17m 36.4s	+11° 33' 31"	510,128,739	427,849,910
Jupiter	22h 17m 24.9s	-11° 42' 45"	650,385,807	753,759,239
Saturn	21h 00m 03.4s	-17° 47' 30"	1,358,573,163	1,489,392,082
Uranus	02h 45m 58.2s	+15° 35' 56"	3,036,058,362	2,954,261,334
Neptune	23h 36m 47.1s	-03° 44' 34"	4,429,986,162	4,476,518,451
Pluto	19h 52m 59.0s	-22° 28' 31"	4,986,674,888	5,133,092,350
Moon	00h 34m 32.4s	-01° 38' 42"	396,712	0

(Distances in km)

Object	Rise:	Tran	Set:	Phase	Constl	Magnitud
Sun	05:36	13:04	20:31	0.00%	Gem	unknown
Mercury	04:24	11:34	18:45	29.05%	Tau	0.9
Venus	07:38	14:53	22:08	89.70%	Cnc	-3.9
Mars	08:15	15:21	22:27	97.25%	Cnc	1.8
Ceres	02:58	09:39	16:20	99.50%	Ari	9.3
Jupiter	23:12	04:35	10:01	99.37%	Aqr	-2.7
Saturn	22:16	03:17	08:22	99.93%	Cap	0.4
Uranus	02:11	09:06	16:02	99.95%	Ari	5.8
Neptune	00:04	05:54	11:47	99.97%	Aqr	7.9
Pluto	21:27	02:09	06:56	100.00%	Sgr	14.3
Moon	00:51	06:50	12:57	51.86%	Cet	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
7/1/21	00:51	12:58	05:37	20:31	03:36	22:31
7/2/21	01:15	13:57	05:37	20:31	03:37	22:31
7/3/21	01:38	14:56	05:38	20:31	03:38	22:30
7/4/21	02:02	15:56	05:38	20:30	03:39	22:30
7/5/21	02:28	16:55	05:39	20:30	03:40	22:29
7/6/21	02:59	17:55	05:39	20:30	03:40	22:29
7/7/21	03:34	18:54	05:40	20:30	03:41	22:28
7/8/21	04:15	19:50	05:41	20:29	03:42	22:27
7/9/21	05:05	20:41	05:41	20:29	03:43	22:26
7/10/21	06:00	21:27	05:42	20:28	03:44	22:26
7/11/21	07:02	22:06	05:43	20:28	03:45	22:25
7/12/21	08:06	22:40	05:43	20:28	03:47	22:24
7/13/21	09:13	23:10	05:44	20:27	03:48	22:23
7/14/21	10:19	23:38	05:45	20:27	03:49	22:22
7/15/21	11:27	-----	05:46	20:26	03:50	22:21
7/16/21	12:35	00:04	05:46	20:25	03:51	22:20
7/17/21	13:45	00:30	05:47	20:25	03:52	22:19
7/18/21	14:57	00:59	05:48	20:24	03:54	22:18
7/19/21	16:11	01:32	05:49	20:23	03:55	22:17
7/20/21	17:27	02:11	05:50	20:23	03:56	22:15
7/21/21	18:38	02:58	05:50	20:22	03:57	22:14
7/22/21	19:43	03:55	05:51	20:21	03:59	22:13
7/23/21	20:36	05:01	05:52	20:20	04:00	22:12
7/24/21	21:21	06:12	05:53	20:20	04:01	22:10
7/25/21	21:56	07:24	05:54	20:19	04:03	22:09
7/26/21	22:26	08:33	05:55	20:18	04:04	22:08
7/27/21	22:52	09:41	05:55	20:17	04:05	22:06
7/28/21	23:17	10:44	05:56	20:16	04:07	22:05
7/29/21	23:40	11:46	05:57	20:15	04:08	22:03
7/30/21	-----	12:45	05:58	20:14	04:10	22:02
7/31/21	00:04	13:45	05:59	20:13	04:11	22:00

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