

February 01, 2022 12:00:00 PM MST

Object	Right ascens	Declination	Earth distance	Sun distance
Sun	21h 01m 25.5s	-16° 56' 41"	0	0
Mercury	19h 44m 24.9s	-18° 09' 50"	108,820,161	55,937,675
Venus	18h 46m 49.0s	-16° 16' 43"	51,370,617	107,504,283
Mars	18h 26m 16.5s	-23° 48' 06"	323,360,995	223,687,320
Ceres	03h 46m 06.6s	+19° 39' 27"	336,595,209	402,418,272
Jupiter	22h 37m 50.1s	-09° 41' 51"	877,547,221	745,941,447
Saturn	21h 13m 12.7s	-16° 58' 27"	1,630,217,708	1,482,996,474
Uranus	02h 34m 25.7s	+14° 43' 33"	2,951,254,834	2,949,817,083
Neptune	23h 30m 23.0s	-04° 25' 10"	4,590,204,396	4,475,904,763
Pluto	19h 57m 33.1s	-22° 30' 06"	5,296,008,794	5,154,471,585
Moon	21h 38m 30.2s	-20° 15' 19"	367,044	0

(Distances in km)

Object	Rise:	Tran	Set:	Phase	Constl	Magnitud
Sun	07:07	12:14	17:20	0.00%	Cap	unknown
Mercury	05:57	10:57	15:56	22.21%	Sgr	1.1
Venus	04:52	09:59	15:06	15.88%	Sgr	-4.6
Mars	05:01	09:38	14:16	95.92%	Sgr	1.4
Ceres	11:47	18:58	02:13	99.50%	Tau	8.5
Jupiter	08:20	13:50	19:19	99.83%	Aqr	-2.1
Saturn	07:21	12:25	17:29	100.00%	Cap	0.7
Uranus	10:53	17:46	00:42	99.94%	Ari	5.8
Neptune	08:55	14:42	20:29	99.99%	Aqr	7.9
Pluto	06:26	11:08	15:51	100.00%	Sgr	14.4
Moon	07:52	12:51	17:59	0.61%	Cap	unknown

Meteor Radiant Report

Name	Month/Day	RA	Decl	Hourly Rate
Alpha Centaurids	02/08	14.0	-59.0	10
Delta Leonids	02/26	10.6	19.0	24

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Date	Moonrise	Moonset	Sunrise	Sunset	Begin Twilight	End Twilight
2/1/22	07:52	17:59	07:07	17:20	05:35	18:52
2/2/22	08:27	19:13	07:06	17:22	05:35	18:53
2/3/22	08:57	20:23	07:05	17:23	05:34	18:54
2/4/22	09:23	21:30	07:04	17:24	05:33	18:55
2/5/22	09:47	22:33	07:03	17:25	05:32	18:57
2/6/22	10:11	23:36	07:02	17:26	05:31	18:58
2/7/22	10:35	-----	07:01	17:28	05:30	18:59
2/8/22	11:03	00:38	07:00	17:29	05:29	19:00
2/9/22	11:33	01:39	06:59	17:30	05:28	19:01
2/10/22	12:08	02:39	06:58	17:31	05:27	19:02
2/11/22	12:50	03:38	06:57	17:32	05:26	19:03
2/12/22	13:39	04:32	06:56	17:33	05:25	19:04
2/13/22	14:34	05:22	06:54	17:35	05:24	19:05
2/14/22	15:35	06:05	06:53	17:36	05:23	19:06
2/15/22	16:39	06:43	06:52	17:37	05:22	19:07
2/16/22	17:44	07:15	06:51	17:38	05:21	19:08
2/17/22	18:50	07:44	06:49	17:39	05:20	19:09
2/18/22	19:56	08:09	06:48	17:40	05:18	19:10
2/19/22	21:02	08:34	06:47	17:41	05:17	19:11
2/20/22	22:10	08:59	06:45	17:43	05:16	19:12
2/21/22	23:20	09:26	06:44	17:44	05:15	19:13
2/22/22	-----	09:55	06:43	17:45	05:13	19:14
2/23/22	00:32	10:31	06:41	17:46	05:12	19:16
2/24/22	01:46	11:14	06:40	17:47	05:11	19:17
2/25/22	02:57	12:07	06:38	17:48	05:09	19:18
2/26/22	04:02	13:10	06:37	17:49	05:08	19:19
2/27/22	04:59	14:21	06:35	17:50	05:06	19:20
2/28/22	05:45	15:36	06:34	17:51	05:05	19:21

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