

February 01, 2023 12:00:00 PM MST

Object	Right ascens	Declination	Earth distance	Sun distance
Sun	21h 00m 26.2s	-17° 00' 52"	0	0
Mercury	19h 16m 55.5s	-21° 41' 33"	156,072,745	65,782,462
Venus	22h 37m 24.9s	-10° 18' 26"	223,933,718	108,574,575
Mars	04h 33m 39.8s	+24° 41' 14"	132,090,134	239,411,914
Ceres	12h 47m 36.2s	+10° 43' 49"	279,478,018	381,474,570
Jupiter	00h 24m 38.5s	+01° 23' 03"	818,648,974	740,666,028
Saturn	21h 54m 31.4s	-14° 02' 39"	1,613,216,205	1,470,193,765
Uranus	02h 50m 29.6s	+16° 00' 07"	2,932,172,539	2,941,862,052
Neptune	23h 38m 26.5s	-03° 36' 35"	4,584,950,760	4,474,732,384
Pluto	20h 05m 16.7s	-22° 40' 08"	5,333,749,050	5,190,933,819
Moon	05h 59m 26.8s	+26° 34' 35"	403,937	0

(Distances in km)

Object	Rise:	Tran	Set:	Phase	Constl	Magnitud
Sun	07:08	12:14	17:20	0.00%	Cap	unknown
Mercury	05:44	10:30	15:16	66.93%	Sgr	-0.1
Venus	08:22	13:51	19:19	91.35%	Aqr	-3.9
Mars	12:13	19:46	03:21	91.93%	Tau	-0.2
Ceres	21:21	04:03	10:41	99.50%	Vir	7.6
Jupiter	09:31	15:37	21:44	99.35%	Psc	-2.2
Saturn	07:53	13:07	18:22	99.99%	Cap	0.8
Uranus	11:05	18:03	01:04	99.94%	Ari	5.7
Neptune	09:01	14:51	20:41	99.99%	Aqr	7.9
Pluto	06:36	11:17	15:58	100.00%	Sgr	14.5
Moon	13:32	21:29	04:34	86.40%	Tau	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

Equinox/Solstice Report

Vernal equinox:	3/20/23	2:25 PM STD
Summer solstice:	6/21/23	7:58 AM STD
Autumnal equinox:	9/22/23	11:51 PM STD
Winter solstice:	12/21/23	8:28 PM STD

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Date	Moonrise	Moonset	Sunrise	Sunset	Begin Twilight	End Twilight
2/1/23	13:33	04:34	07:08	17:20	05:36	18:52
2/2/23	14:24	05:28	07:07	17:21	05:35	18:53
2/3/23	15:21	06:14	07:06	17:22	05:34	18:54
2/4/23	16:21	06:54	07:05	17:23	05:33	18:55
2/5/23	17:23	07:27	07:04	17:25	05:32	18:56
2/6/23	18:25	07:55	07:03	17:26	05:32	18:57
2/7/23	19:26	08:19	07:02	17:27	05:31	18:58
2/8/23	20:26	08:42	07:01	17:28	05:30	18:59
2/9/23	21:28	09:03	07:00	17:29	05:29	19:00
2/10/23	22:30	09:24	06:59	17:31	05:28	19:01
2/11/23	23:35	09:47	06:57	17:32	05:27	19:03
2/12/23	-----	10:12	06:56	17:33	05:26	19:04
2/13/23	00:43	10:43	06:55	17:34	05:25	19:05
2/14/23	01:55	11:22	06:54	17:35	05:23	19:06
2/15/23	03:07	12:10	06:52	17:36	05:22	19:07
2/16/23	04:16	13:12	06:51	17:38	05:21	19:08
2/17/23	05:18	14:24	06:50	17:39	05:20	19:09
2/18/23	06:08	15:44	06:49	17:40	05:19	19:10
2/19/23	06:49	17:05	06:47	17:41	05:17	19:11
2/20/23	07:23	18:24	06:46	17:42	05:16	19:12
2/21/23	07:52	19:40	06:44	17:43	05:15	19:13
2/22/23	08:17	20:53	06:43	17:44	05:14	19:14
2/23/23	08:42	22:03	06:42	17:45	05:12	19:15
2/24/23	09:08	23:13	06:40	17:47	05:11	19:16
2/25/23	09:36	-----	06:39	17:48	05:10	19:17
2/26/23	10:08	00:20	06:37	17:49	05:08	19:19
2/27/23	10:44	01:26	06:36	17:50	05:07	19:20
2/28/23	11:28	02:28	06:34	17:51	05:05	19:21\

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

*Daylight Saving Time ends for most of US.