

February 01, 2020 12:00:00 PM MST

Object	Right ascens	Declination	Earth distance	Sun distance
Sun	20h 59m 21.3s	-17° 05' 20"	0	0
Mercury	21h 59m 28.5s	-13° 26' 12"	175,732,048	50,564,247
Venus	23h 35m 05.3s	-03° 36' 10"	162,212,988	108,034,166
Mars	17h 16m 11.9s	-23° 03' 22"	290,498,420	232,186,563
Ceres	20h 14m 26.7s	-24° 42' 23"	581,935,717	438,321,761
Jupiter	19h 00m 06.5s	-22° 40' 42"	906,612,431	780,298,085
Saturn	19h 48m 19.4s	-21° 05' 29"	1,640,776,872	1,500,634,991
Uranus	02h 03m 15.4s	+12° 00' 45"	2,985,071,324	2,964,246,135
Neptune	23h 14m 08.4s	-06° 01' 45"	4,598,150,688	4,477,816,459
Pluto	19h 41m 41.0s	-22° 05' 33"	5,221,309,997	5,082,122,860
Moon	02h 36m 05.7s	+09° 48' 21"	400,343	0

(Distances in km)

Object	Rise:	Tran	Set:	Phase	Constl	Magnitud
Sun	07:07	12:13	17:19	0.00%	Cap	unknown
Mercury	07:55	13:13	18:32	82.97%	Aqr	-1.0
Venus	08:58	14:49	20:40	73.20%	Aqr	-4.1
Mars	03:49	08:30	13:11	93.21%	Oph	1.4
Ceres	06:55	11:29	16:03	99.50%	Cap	9.0
Jupiter	05:32	10:14	14:56	99.80%	Sgr	-1.9
Saturn	06:14	11:02	15:50	99.98%	Sgr	0.6
Uranus	10:33	17:16	00:02	99.94%	Ari	5.8
Neptune	08:45	14:27	20:09	99.99%	Aqr	7.9
Pluto	06:10	10:54	15:38	100.00%	Sgr	14.4
Moon	11:11	17:56	00:48	47.43%	Cet	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
2/1/20	11:12	-----	07:07	17:19	05:35	18:51
2/2/20	11:41	00:51	07:06	17:20	05:34	18:52
2/3/20	12:14	01:52	07:05	17:21	05:34	18:53
2/4/20	12:53	02:55	07:04	17:23	05:33	18:54
2/5/20	13:41	03:58	07:03	17:24	05:32	18:55
2/6/20	14:37	04:59	07:02	17:25	05:31	18:56
2/7/20	15:42	05:56	07:01	17:26	05:30	18:57
2/8/20	16:53	06:47	07:00	17:27	05:29	18:58
2/9/20	18:08	07:32	06:59	17:29	05:28	18:59
2/10/20	19:24	08:11	06:58	17:30	05:27	19:00
2/11/20	20:38	08:45	06:57	17:31	05:26	19:02
2/12/20	21:51	09:18	06:55	17:32	05:25	19:03
2/13/20	23:03	09:49	06:54	17:33	05:24	19:04
2/14/20	-----	10:21	06:53	17:34	05:23	19:05
2/15/20	00:13	10:56	06:52	17:36	05:22	19:06
2/16/20	01:22	11:34	06:51	17:37	05:21	19:07
2/17/20	02:28	12:16	06:49	17:38	05:19	19:08
2/18/20	03:30	13:05	06:48	17:39	05:18	19:09
2/19/20	04:25	13:58	06:47	17:40	05:17	19:10
2/20/20	05:15	14:55	06:45	17:41	05:16	19:11
2/21/20	05:57	15:54	06:44	17:42	05:14	19:12
2/22/20	06:33	16:54	06:43	17:44	05:13	19:13
2/23/20	07:05	17:53	06:41	17:45	05:12	19:14
2/24/20	07:33	18:51	06:40	17:46	05:11	19:15
2/25/20	07:59	19:49	06:38	17:47	05:09	19:16
2/26/20	08:23	20:46	06:37	17:48	05:08	19:17
2/27/20	08:48	21:44	06:35	17:49	05:06	19:19
2/28/20	09:13	22:42	06:34	17:50	05:05	19:20
2/29/20	09:41	23:41	06:32	17:51	05:03	19:21

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