

May 01, 2021 12:00:00 PM MDT

Object	Right ascens	Declination	Earth distance	Sun distance
Sun	02h 36m 24.3s	+15° 17' 25"	0	0
Mercury	03h 31m 03.7s	+20° 40' 44"	175,679,549	47,011,633
Venus	03h 14m 18.2s	+17° 40' 31"	253,810,348	107,930,131
Mars	06h 21m 58.6s	+24° 47' 13"	303,168,234	245,411,690
Ceres	01h 50m 22.7s	+04° 07' 10"	577,447,781	433,833,825
Jupiter	22h 03m 30.2s	-12° 42' 52"	786,459,578	756,467,513
Saturn	21h 03m 05.7s	-17° 25' 52"	1,487,601,562	1,491,032,568
Uranus	02h 33m 45.8s	+14° 39' 28"	3,106,219,108	2,955,490,426
Neptune	23h 33m 50.2s	-04° 00' 41"	4,573,863,966	4,476,683,088
Pluto	19h 56m 31.9s	-22° 11' 20"	5,086,634,176	5,127,042,439
Moon	19h 01m 55.6s	-26° 06' 37"	370,860	0

(Distances in km)

Object	Rise:	Tran	Set:	Phase	Constl	Magnitud
Sun	06:00	12:57	19:54	0.00%	Ari	unknown
Mercury	06:35	13:52	21:10	81.35%	Tau	-1.1
Venus	06:31	13:35	20:40	98.68%	Ari	-3.9
Mars	09:10	16:42	00:16	93.49%	Gem	1.6
Ceres	05:56	12:12	18:28	99.50%	Psc	9.2
Jupiter	03:05	08:24	13:44	99.08%	Aqr	-2.3
Saturn	02:22	07:24	12:26	99.74%	Cap	0.7
Uranus	06:02	12:54	19:46	100.00%	Ari	5.9
Neptune	04:06	09:55	15:43	99.98%	Aqr	7.9
Pluto	01:33	06:17	11:00	99.98%	Sgr	14.3
Moon	00:34	05:11	09:49	72.65%	Sgr	unknown

Meteor Radiant Report

Name	Month/Day	RA	Decl	Hourly Rate
Phi Bootids	05/01	16.0	51.0	6
Alpha Scorpiids	05/03	16.0	-22.0	6
Eta Aquarids	05/03	22.4	-1.9	60

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

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