

May 01, 2024 12:00:00 PM MDT

Object	Right ascens	Declination	Earth distance	Sun distance
Sun	02h 37m 27.4s	+15° 22' 23"	0	0
Mercury	01h 08m 17.2s	+04° 36' 22"	105,849,546	69,795,884
Venus	02h 03m 51.5s	+11° 17' 11"	254,654,301	108,479,198
Mars	00h 05m 00.5s	-00° 50' 09"	295,310,091	206,719,387
Ceres	19h 31m 03.0s	-24° 20' 59"	350,059,017	427,849,910
Jupiter	03h 28m 27.6s	+18° 06' 33"	896,183,777	749,721,934
Saturn	23h 13m 47.2s	-06° 51' 39"	1,532,487,520	1,451,554,918
Uranus	03h 20m 21.8s	+18° 07' 11"	3,079,228,174	2,931,193,890
Neptune	23h 58m 06.7s	-01° 32' 54"	4,582,386,421	4,473,063,042
Pluto	20h 20m 23.9s	-22° 38' 31"	5,209,289,096	5,236,772,336
Moon	21h 12m 11.9s	-21° 30' 33"	372,761	0

(Distances in km)

Object	Rise:	Tran	Set:	Phase	Constl	Magnitud
Sun	06:00	12:57	19:55	0.00%	Ari	unknown
Mercury	05:10	11:28	17:46	27.48%	Psc	1.1
Venus	05:42	12:23	19:05	98.77%	Ari	-3.9
Mars	04:25	10:25	16:25	93.91%	Psc	1.1
Ceres	01:18	05:53	10:27	99.50%	Sgr	8.4
Jupiter	06:42	13:47	20:53	99.95%	Tau	-2.0
Saturn	03:54	09:33	15:13	99.82%	Aqr	1.2
Uranus	06:34	13:39	20:45	100.00%	Ari	5.8
Neptune	04:21	10:18	16:15	99.99%	Psc	7.9
Pluto	01:58	06:39	11:20	99.98%	Cap	14.4
Moon	02:37	07:26	12:23	47.53%	Cap	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

Equinox/Solstice Report

Vernal equinox: 3/19/24 8:07 PM STD
Summer solstice: 6/20/24 1:52 PM STD
Autumnal equinox: 9/22/24 5:44 AM STD
Winter solstice: 12/21/24 2:21 AM STD

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

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