

April 01, 2023 12:00:00 PM MDT

Object	Right ascens	Declination	Earth distance	Sun distance
Sun	00h 43m 03.1s	+04° 37' 37"	0	0
Mercury	01h 37m 01.7s	+11° 15' 35"	169,713,246	46,039,555
Venus	03h 04m 24.7s	+18° 23' 13"	177,577,605	107,548,629
Mars	06h 15m 44.6s	+25° 26' 58"	218,518,066	246,650,789
Ceres	12h 18m 06.6s	+16° 09' 07"	242,348,551	384,466,528
Jupiter	01h 12m 50.8s	+06° 33' 40"	888,753,518	740,881,330
Saturn	22h 20m 58.5s	-11° 43' 10"	1,581,209,458	1,467,927,311
Uranus	02h 57m 50.8s	+16° 33' 24"	3,061,518,636	2,940,527,639
Neptune	23h 46m 14.6s	-02° 46' 02"	4,618,023,169	4,474,527,756
Pluto	20h 11m 34.1s	-22° 29' 07"	5,242,146,773	5,196,843,459
Moon	09h 41m 13.1s	+18° 27' 55"	404,046	0

(Distances in km)

Object	Rise:	Tran	Set:	Phase	Constl	Magnitud
Sun	06:44	13:04	19:24	0.00%	Psc	unknown
Mercury	07:17	13:58	20:41	77.48%	Psc	-1.1
Venus	08:18	15:25	22:34	77.18%	Ari	-4.0
Mars	11:00	18:36	02:14	90.00%	Gem	1.0
Ceres	17:41	00:38	07:39	99.50%	Com	8.1
Jupiter	07:09	13:33	19:57	99.98%	Psc	-2.1
Saturn	05:19	10:42	16:04	99.90%	Aqr	1.0
Uranus	08:19	15:18	22:17	99.98%	Ari	5.8
Neptune	06:14	12:07	18:00	100.00%	Psc	8.0
Pluto	03:50	08:31	13:13	99.98%	Cap	14.4
Moon	15:04	22:20	05:01	81.64%	Leo	unknown

Meteor Radiant Report

Name	Month/Day	RA	Decl	Hourly Rate
Alpha Virginids	04/09	13.3	-13.0	8
Sigma Leonids	04/17	13.0	-5.0	12
April Lyrids	04/22	18.1	33.6	12
Pi Puppids	04/23	7.3	-45.0	10
Mu Virginids	04/25	14.7	-5.0	7
Alpha Bootids	04/28	14.5	19.0	8

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

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

*Daylight Saving Time begins for most of US.