

April 01, 2024 12:00:00 PM MDT

Object	Right ascens	Declination	Earth distance	Sun distance
Sun	00h 45m 57.6s	+04° 56' 02"	0	0
Mercury	01h 36m 12.4s	+13° 31' 54"	106,318,682	54,403,860
Venus	23h 46m 50.1s	-03° 01' 52"	243,137,265	108,892,738
Mars	22h 38m 58.1s	-09° 51' 29"	312,304,134	208,103,906
Ceres	19h 10m 07.0s	-23° 28' 34"	406,906,208	423,361,974
Jupiter	03h 01m 09.6s	+16° 16' 18"	866,140,480	748,647,016
Saturn	23h 02m 27.3s	-07° 57' 24"	1,582,019,701	1,452,852,818
Uranus	03h 13m 50.9s	+17° 41' 47"	3,047,744,185	2,931,921,853
Neptune	23h 54m 21.7s	-01° 56' 26"	4,617,705,468	4,473,178,162
Pluto	20h 19m 21.6s	-22° 36' 38"	5,281,388,419	5,233,737,850
Moon	18h 31m 35.8s	-29° 03' 52"	381,197	0

(Distances in km)

Object	Rise:	Tran	Set:	Phase	Constl	Magnitud
Sun	06:43	13:04	19:25	0.00%	Psc	unknown
Mercury	07:05	13:53	20:42	15.04%	Psc	1.7
Venus	06:12	12:04	17:58	95.90%	Psc	-3.9
Mars	05:27	10:57	16:26	95.58%	Aqr	1.2
Ceres	02:52	07:30	12:08	99.50%	Sgr	8.8
Jupiter	08:20	15:18	22:16	99.67%	Ari	-2.1
Saturn	05:45	11:20	16:56	99.94%	Aqr	1.1
Uranus	08:27	15:31	22:34	99.97%	Ari	5.8
Neptune	06:16	12:12	18:07	100.00%	Psc	8.0
Pluto	03:55	08:36	13:17	99.98%	Cap	14.5
Moon	02:18	06:39	11:02	54.31%	Sgr	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: 3/19/24 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
4/1/24	02:18	11:02	06:43	19:25	05:11	20:58
4/2/24	03:13	12:08	06:41	19:26	05:09	20:59
4/3/24	03:59	13:22	06:40	19:27	05:07	21:00
4/4/24	04:37	14:39	06:38	19:28	05:05	21:01
4/5/24	05:09	15:58	06:37	19:29	05:03	21:03
4/6/24	05:37	17:15	06:35	19:30	05:01	21:04
4/7/24	06:03	18:32	06:33	19:31	05:00	21:05
4/8/24	06:29	19:50	06:32	19:32	04:58	21:07
4/9/24	06:56	21:08	06:30	19:33	04:56	21:08
4/10/24	07:27	22:26	06:29	19:34	04:54	21:09
4/11/24	08:03	23:41	06:27	19:35	04:52	21:10
4/12/24	08:47	-----	06:26	19:36	04:50	21:12
4/13/24	09:39	00:50	06:24	19:37	04:49	21:13
4/14/24	10:38	01:49	06:23	19:38	04:47	21:15
4/15/24	11:41	02:37	06:21	19:39	04:45	21:16
4/16/24	12:45	03:16	06:20	19:40	04:43	21:17
4/17/24	13:49	03:47	06:18	19:41	04:41	21:19
4/18/24	14:50	04:12	06:17	19:42	04:39	21:20
4/19/24	15:51	04:34	06:15	19:43	04:37	21:21
4/20/24	16:50	04:54	06:14	19:44	04:36	21:23
4/21/24	17:49	05:14	06:13	19:45	04:34	21:24
4/22/24	18:49	05:33	06:11	19:46	04:32	21:26
4/23/24	19:51	05:54	06:10	19:47	04:30	21:27
4/24/24	20:56	06:17	06:09	19:48	04:28	21:29
4/25/24	22:03	06:46	06:07	19:49	04:27	21:30
4/26/24	23:09	07:20	06:06	19:50	04:25	21:31
4/27/24	-----	08:03	06:05	19:51	04:23	21:33
4/28/24	00:12	08:56	06:03	19:52	04:21	21:34
4/29/24	01:09	09:59	06:02	19:53	04:20	21:36
4/30/24	01:57	11:10	06:01	19:54	04:18	21:37

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