

April 01, 2022 12:00:00 PM MDT

Object	Right ascens	Declination	Earth distance	Sun distance
Sun	00h 44m 05.3s	+04° 44' 11"	0	0
Mercury	00h 41m 16.2s	+03° 07' 54"	201,198,252	51,970,477
Venus	21h 51m 22.0s	-12° 08' 52"	115,870,695	108,462,313
Mars	21h 30m 48.3s	-16° 00' 28"	269,419,668	213,200,483
Ceres	04h 46m 00.5s	+24° 23' 49"	445,801,655	396,434,357
Jupiter	23h 30m 16.2s	-04° 18' 31"	882,504,634	744,353,957
Saturn	21h 39m 09.2s	-15° 02' 07"	1,572,991,898	1,481,085,666
Uranus	02h 42m 22.2s	+15° 22' 04"	3,075,784,237	2,948,567,932
Neptune	23h 38m 15.7s	-03° 34' 31"	4,617,312,819	4,475,726,786
Pluto	20h 03m 44.2s	-22° 20' 02"	5,200,588,108	5,160,345,221
Moon	01h 11m 18.7s	+03° 40' 21"	388,097	0

(Distances in km)

Object	Rise:	Tran	Set:	Phase	Constl	Magnitud
Sun	06:44	13:04	19:24	0.00%	Psc	unknown
Mercury	06:48	13:01	19:16	99.81%	Psc	-1.9
Venus	04:49	10:11	15:33	55.65%	Cap	-4.3
Mars	04:43	09:51	14:59	91.65%	Cap	1.1
Ceres	09:36	17:06	00:36	99.50%	Tau	9.0
Jupiter	06:02	11:50	17:38	99.88%	Aqr	-2.1
Saturn	04:48	09:59	15:10	99.85%	Cap	0.9
Uranus	08:07	15:01	21:56	99.98%	Ari	5.8
Neptune	06:08	11:58	17:48	100.00%	Aqr	8.0
Pluto	03:40	08:23	13:06	99.98%	Sgr	14.4
Moon	07:12	13:32	20:02	0.32%	Psc	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: 3/20/22 8:34 AM STD
Summer solstice: 6/21/22 2:14 AM STD
Autumnal equinox: 9/22/22 6:05 PM STD
Winter solstice: 12/21/22 2:49 PM STD

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

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