

April 01, 2019 12:00:00 PM MDT

Object	Right ascens	Declination	Earth distance	Sun distance
Sun	00h 42m 57.0s	+04° 36' 55"	0	0
Mercury	23h 12m 16.8s	-05° 32' 47"	108,754,379	68,279,069
Venus	22h 36m 37.2s	-09° 46' 49"	191,216,103	108,863,150
Mars	03h 54m 27.8s	+21° 15' 03"	302,986,543	234,660,829
Ceres	16h 52m 47.1s	-16° 33' 10"	315,651,507	406,906,208
Jupiter	17h 34m 57.1s	-22° 40' 41"	738,475,455	796,194,874
Saturn	19h 25m 44.1s	-21° 33' 36"	1,518,341,971	1,504,342,146
Uranus	01h 57m 24.8s	+11° 28' 21"	3,110,108,302	2,969,753,621
Neptune	23h 14m 05.8s	-05° 58' 51"	4,614,050,490	4,478,537,976
Pluto	19h 39m 34.2s	-21° 42' 55"	5,079,401,807	5,052,133,793
Moon	22h 16m 37.5s	-14° 41' 19"	405,332	0

(Distances in km)

Object	Rise:	Tran	Set:	Phase	Constl	Magnitud
Sun	06:44	13:04	19:24	0.00%	Psc	unknown
Mercury	05:49	11:33	17:17	30.27%	Aqr	0.9
Venus	05:27	10:58	16:28	81.30%	Aqr	-4.0
Mars	08:57	16:15	23:33	93.78%	Tau	1.5
Ceres	00:07	05:16	10:21	99.50%	Oph	8.1
Jupiter	01:15	05:57	10:39	99.19%	Oph	-2.3
Saturn	03:01	07:47	12:34	99.76%	Sgr	0.6
Uranus	07:37	14:18	20:58	99.99%	Ari	5.9
Neptune	05:53	11:35	17:17	100.00%	Aqr	8.0
Pluto	03:14	08:00	12:45	99.98%	Sgr	14.3
Moon	05:18	10:37	16:01	12.16%	Aqr	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

April 01, 2019 12:00:00 PM MDT

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

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