

September 01, 2023 12:00:00 PM MDT

Object	Right ascens	Declination	Earth distance	Sun distance
Sun	10h 42m 34.4s	+08° 10' 34"	0	0
Mercury	11h 08m 57.9s	+00° 38' 43"	94,369,841	60,300,485
Venus	08h 50m 47.6s	+10° 04' 55"	50,531,261	108,775,162
Mars	12h 13m 15.1s	-00° 44' 49"	372,405,801	242,885,831
Ceres	13h 37m 33.4s	-04° 07' 06"	489,185,037	397,930,336
Jupiter	02h 53m 59.9s	+15° 14' 19"	669,661,918	742,831,789
Saturn	22h 24m 02.3s	-11° 54' 52"	1,311,560,146	1,461,818,185
Uranus	03h 23m 01.9s	+18° 13' 54"	2,891,832,306	2,936,995,302
Neptune	23h 50m 06.1s	-02° 27' 30"	4,329,943,430	4,473,978,396
Pluto	20h 03m 44.7s	-23° 11' 02"	5,097,168,446	5,212,229,858
Moon	00h 11m 45.3s	-01° 19' 56"	361,321	0

(Distances in km)

Object	Rise:	Tran	Set:	Phase	Constl	Magnitud
Sun	06:28	13:00	19:31	0.00%	Leo	unknown
Mercury	07:23	13:26	19:30	4.97%	Leo	3.3
Venus	04:33	11:08	17:44	11.75%	Cnc	-4.4
Mars	08:30	14:30	20:30	98.34%	Vir	1.7
Ceres	10:07	15:55	21:43	99.50%	Vir	8.8
Jupiter	22:15	05:12	12:06	99.12%	Ari	-2.7
Saturn	19:17	00:39	06:05	100.00%	Aqr	0.4
Uranus	22:32	05:41	12:47	99.94%	Ari	5.7
Neptune	20:11	02:05	08:03	100.00%	Psc	7.8
Pluto	17:38	22:18	03:01	99.99%	Sgr	14.4
Moon	20:43	02:59	08:15	95.75%	Psc	unknown

Meteor Radiant Report

Name	Month/Day	RA	Decl	Hourly Rate
Aurigids	09/01	5.7	42.0	30
Northern Tau Aquarids	09/20	21.8	-6.0	15
Southern Piscids	09/20	0.4	0.0	10
Kappa Aquarids	09/21	22.5	-5.0	5
Daytime Sextantids	09/29	10.1	0.0	30

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

September 01, 2023 12:00:00 PM MDT

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

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

*Daylight Saving Time begins for most of US.