

September 01, 2021 12:00:00 PM MDT

Object	Right ascens	Declination	Earth distance	Sun distance
Sun	10h 44m 09.4s	+08° 01' 02"	0	0
Mercury	12h 11m 24.9s	-02° 09' 36"	170,193,614	69,430,278
Venus	13h 11m 16.3s	-07° 47' 31"	165,010,397	108,681,112
Mars	11h 29m 59.8s	+04° 13' 23"	392,983,055	247,330,826
Ceres	04h 28m 33.4s	+15° 19' 34"	390,450,443	421,865,995
Jupiter	21h 53m 05.7s	-14° 06' 57"	603,809,861	751,209,308
Saturn	20h 42m 55.7s	-19° 01' 28"	1,356,703,816	1,487,644,414
Uranus	02h 49m 34.1s	+15° 51' 13"	2,886,613,795	2,952,998,082
Neptune	23h 32m 56.8s	-04° 11' 38"	4,328,958,964	4,476,347,039
Pluto	19h 47m 18.5s	-22° 48' 18"	5,031,224,739	5,139,247,519
Moon	06h 23m 57.4s	+25° 32' 21"	399,865	0

(Distances in km)

Object	Rise:	Tran	Set:	Phase	Constl	Magnitud
Sun	06:29	13:00	19:30	0.00%	Leo	unknown
Mercury	08:31	14:27	20:22	73.28%	Vir	-0.0
Venus	09:50	15:27	21:03	72.66%	Vir	-4.0
Mars	07:29	13:45	20:02	99.60%	Leo	1.8
Ceres	23:48	06:46	13:41	99.50%	Tau	8.9
Jupiter	18:52	00:07	05:25	99.94%	Cap	-2.9
Saturn	18:00	22:57	03:57	99.93%	Cap	0.3
Uranus	22:06	05:06	12:02	99.95%	Ari	5.7
Neptune	19:58	01:46	07:38	100.00%	Aqr	7.8
Pluto	17:19	22:00	02:45	99.99%	Sgr	14.3
Moon	00:48	08:36	16:24	27.96%	Gem	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

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

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