

Introduction to Reports Generated by Astronomy Lab 2

In all reports, times and dates are in standard time (not daylight savings time or summer time). Times are in 24 hour format.

Abbreviations used in reports:

AU	Astronomical Units
D	Degrees
DEC	Declination
DIST	Distance
DSO	December Solstice
E	East
FM	Full Moon
FQ	First Quarter Moon
H	Hours
ILL FR, ILLUM FRAC	Illuminated Fraction
JSO	June Solstice
KM	Kilometers
LE	Lunar Eclipse
LQ	Last Quarter Moon
M	Minutes
MEQ	March Equinox
MR	Moon Rise
MS	Moon Set
N	North
NM	New Moon
RA	Right Ascension
S	South, Seconds
SE	Solar Eclipse
SEQ	September Equinox
SR	Sunrise
SS	Sunset
UT	Universal Time
W	West
ZHR	Zenithal Hourly Rate

Calendar Report for 1/ 1/2025 to 12/31/2025

January 2025

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1 SR: 7:49 SS: 17:10 MR: 9:35 MS: 19:06	2 SR: 7:49 SS: 17:11 MR: 10:08 MS: 20:20	3 SR: 7:50 SS: 17:12 MR: 10:36 MS: 21:33	4 SR: 7:50 SS: 17:13 MR: 11:01 MS: 22:45
5 SR: 7:50 SS: 17:14 MR: 11:24 MS: 23:57	6 SR: 7:49 SS: 17:15 MR: 11:47 MS: None FQ: 16:58	7 SR: 7:49 SS: 17:16 MR: 12:12 MS: 1:10	8 SR: 7:49 SS: 17:17 MR: 12:41 MS: 2:24	9 SR: 7:49 SS: 17:18 MR: 13:16 MS: 3:41	10 SR: 7:49 SS: 17:19 MR: 13:59 MS: 4:57	11 SR: 7:49 SS: 17:20 MR: 14:53 MS: 6:09
12 SR: 7:48 SS: 17:21 MR: 15:57 MS: 7:11	13 SR: 7:48 SS: 17:22 MR: 17:06 MS: 8:02 FM: 15:28	14 SR: 7:48 SS: 17:23 MR: 18:18 MS: 8:43	15 SR: 7:47 SS: 17:24 MR: 19:27 MS: 9:15	16 SR: 7:47 SS: 17:25 MR: 20:33 MS: 9:40	17 SR: 7:46 SS: 17:27 MR: 21:36 MS: 10:02	18 SR: 7:46 SS: 17:28 MR: 22:37 MS: 10:22
19 SR: 7:45 SS: 17:29 MR: 23:37 MS: 10:41	20 SR: 7:45 SS: 17:30 MR: None MS: 11:00	21 SR: 7:44 SS: 17:31 MR: 0:37 MS: 11:21 LQ: 13:32	22 SR: 7:43 SS: 17:32 MR: 1:39 MS: 11:45	23 SR: 7:43 SS: 17:34 MR: 2:42 MS: 12:14	24 SR: 7:42 SS: 17:35 MR: 3:47 MS: 12:49	25 SR: 7:41 SS: 17:36 MR: 4:51 MS: 13:33
26 SR: 7:40 SS: 17:37 MR: 5:51 MS: 14:28	27 SR: 7:40 SS: 17:38 MR: 6:45 MS: 15:34	28 SR: 7:39 SS: 17:40 MR: 7:30 MS: 16:46	29 SR: 7:38 SS: 17:41 MR: 8:07 MS: 18:02 NM: 5:37	30 SR: 7:37 SS: 17:42 MR: 8:37 MS: 19:18	31 SR: 7:36 SS: 17:43 MR: 9:04 MS: 20:32	

February 2025

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						1 SR: 7:35 SS: 17:45 MR: 9:28 MS: 21:46
2 SR: 7:34 SS: 17:46 MR: 9:51 MS: 23:00	3 SR: 7:33 SS: 17:47 MR: 10:16 MS: None	4 SR: 7:32 SS: 17:48 MR: 10:44 MS: 0:15	5 SR: 7:31 SS: 17:49 MR: 11:16 MS: 1:31 FQ: 1:04	6 SR: 7:30 SS: 17:51 MR: 11:56 MS: 2:47	7 SR: 7:29 SS: 17:52 MR: 12:45 MS: 3:59	8 SR: 7:28 SS: 17:53 MR: 13:44 MS: 5:04
9 SR: 7:26 SS: 17:54 MR: 14:51 MS: 5:57	10 SR: 7:25 SS: 17:56 MR: 16:01 MS: 6:40	11 SR: 7:24 SS: 17:57 MR: 17:10 MS: 7:15	12 SR: 7:23 SS: 17:58 MR: 18:18 MS: 7:42 FM: 6:54	13 SR: 7:22 SS: 17:59 MR: 19:22 MS: 8:05	14 SR: 7:20 SS: 18:00 MR: 20:24 MS: 8:26	15 SR: 7:19 SS: 18:02 MR: 21:24 MS: 8:45
16 SR: 7:18 SS: 18:03 MR: 22:25 MS: 9:04	17 SR: 7:16 SS: 18:04 MR: 23:26 MS: 9:24	18 SR: 7:15 SS: 18:05 MR: None MS: 9:46	19 SR: 7:14 SS: 18:06 MR: 0:29 MS: 10:12	20 SR: 7:12 SS: 18:07 MR: 1:32 MS: 10:44 LQ: 10:35	21 SR: 7:11 SS: 18:09 MR: 2:36 MS: 11:23	22 SR: 7:09 SS: 18:10 MR: 3:37 MS: 12:13
23 SR: 7:08 SS: 18:11 MR: 4:33 MS: 13:12	24 SR: 7:06 SS: 18:12 MR: 5:21 MS: 14:21	25 SR: 7:05 SS: 18:13 MR: 6:01 MS: 15:35	26 SR: 7:04 SS: 18:14 MR: 6:35 MS: 16:52	27 SR: 7:02 SS: 18:16 MR: 7:03 MS: 18:09 NM: 17:47	28 SR: 7:01 SS: 18:17 MR: 7:29 MS: 19:25	

March 2025

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						1 SR: 6:59 SS: 18:18 MR: 7:53 MS: 20:42
2 SR: 6:58 SS: 18:19 MR: 8:18 MS: 21:59	3 SR: 6:56 SS: 18:20 MR: 8:45 MS: 23:18	4 SR: 6:54 SS: 18:21 MR: 9:17 MS: None	5 SR: 6:53 SS: 18:22 MR: 9:55 MS: 0:36	6 SR: 6:51 SS: 18:23 MR: 10:42 MS: 1:51 FQ: 9:34	7 SR: 6:50 SS: 18:25 MR: 11:38 MS: 2:58	8 SR: 6:48 SS: 18:26 MR: 12:42 MS: 3:55
9 SR: 6:47 SS: 18:27 MR: 13:51 MS: 4:41	10 SR: 6:45 SS: 18:28 MR: 15:00 MS: 5:17	11 SR: 6:43 SS: 18:29 MR: 16:07 MS: 5:46	12 SR: 6:42 SS: 18:30 MR: 17:11 MS: 6:10	13 SR: 6:40 SS: 18:31 MR: 18:13 MS: 6:31 FM: 23:56	14 SR: 6:38 SS: 18:32 MR: 19:14 MS: 6:50 LE: 0:02	15 SR: 6:37 SS: 18:33 MR: 20:14 MS: 7:09
16 SR: 6:35 SS: 18:34 MR: 21:15 MS: 7:28	17 SR: 6:34 SS: 18:35 MR: 22:17 MS: 7:49	18 SR: 6:32 SS: 18:36 MR: 23:21 MS: 8:14	19 SR: 6:30 SS: 18:37 MR: None MS: 8:43	20 SR: 6:29 SS: 18:38 MR: 0:24 MS: 9:19 MEQ: 1:57	21 SR: 6:27 SS: 18:40 MR: 1:26 MS: 10:03	22 SR: 6:25 SS: 18:41 MR: 2:23 MS: 10:57 LQ: 4:32
23 SR: 6:24 SS: 18:42 MR: 3:13 MS: 12:01	24 SR: 6:22 SS: 18:43 MR: 3:55 MS: 13:11	25 SR: 6:20 SS: 18:44 MR: 4:31 MS: 14:25	26 SR: 6:19 SS: 18:45 MR: 5:01 MS: 15:40	27 SR: 6:17 SS: 18:46 MR: 5:27 MS: 16:57	28 SR: 6:15 SS: 18:47 MR: 5:52 MS: 18:14	29 SR: 6:14 SS: 18:48 MR: 6:17 MS: 19:32 NM: 4:00 SE: 3:47
30 SR: 6:12 SS: 18:49 MR: 6:43 MS: 20:53	31 SR: 6:11 SS: 18:50 MR: 7:14 MS: 22:15					

April 2025

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		1 SR: 6:09 SS: 18:51 MR: 7:50 MS: 23:35	2 SR: 6:07 SS: 18:52 MR: 8:35 MS: None	3 SR: 6:06 SS: 18:53 MR: 9:30 MS: 0:48	4 SR: 6:04 SS: 18:54 MR: 10:33 MS: 1:50 FQ: 19:17	5 SR: 6:02 SS: 18:55 MR: 11:42 MS: 2:40
6 SR: 6:01 SS: 18:56 MR: 12:51 MS: 3:19	7 SR: 5:59 SS: 18:57 MR: 13:59 MS: 3:50	8 SR: 5:58 SS: 18:58 MR: 15:04 MS: 4:15	9 SR: 5:56 SS: 18:59 MR: 16:06 MS: 4:37	10 SR: 5:55 SS: 19:00 MR: 17:06 MS: 4:56	11 SR: 5:53 SS: 19:01 MR: 18:06 MS: 5:15	12 SR: 5:51 SS: 19:02 MR: 19:07 MS: 5:34 FM: 17:24
13 SR: 5:50 SS: 19:03 MR: 20:09 MS: 5:55	14 SR: 5:48 SS: 19:04 MR: 21:11 MS: 6:18	15 SR: 5:47 SS: 19:06 MR: 22:15 MS: 6:45	16 SR: 5:45 SS: 19:07 MR: 23:17 MS: 7:19	17 SR: 5:44 SS: 19:08 MR: None MS: 8:00	18 SR: 5:42 SS: 19:09 MR: 0:15 MS: 8:50	19 SR: 5:41 SS: 19:10 MR: 1:07 MS: 9:49
20 SR: 5:39 SS: 19:11 MR: 1:51 MS: 10:55 LQ: 18:38	21 SR: 5:38 SS: 19:12 MR: 2:28 MS: 12:05	22 SR: 5:37 SS: 19:13 MR: 2:59 MS: 13:18	23 SR: 5:35 SS: 19:14 MR: 3:26 MS: 14:31	24 SR: 5:34 SS: 19:15 MR: 3:51 MS: 15:46	25 SR: 5:32 SS: 19:16 MR: 4:15 MS: 17:02	26 SR: 5:31 SS: 19:17 MR: 4:41 MS: 18:21
27 SR: 5:30 SS: 19:18 MR: 5:09 MS: 19:43 NM: 12:33	28 SR: 5:28 SS: 19:19 MR: 5:43 MS: 21:07	29 SR: 5:27 SS: 19:20 MR: 6:24 MS: 22:26	30 SR: 5:26 SS: 19:21 MR: 7:17 MS: 23:36			

June 2025

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1 SR: 4:57 SS: 19:51 MR: 10:43 MS: 0:20	2 SR: 4:57 SS: 19:51 MR: 11:49 MS: 0:45 FQ: 20:42	3 SR: 4:57 SS: 19:52 MR: 12:51 MS: 1:06	4 SR: 4:56 SS: 19:53 MR: 13:52 MS: 1:26	5 SR: 4:56 SS: 19:53 MR: 14:52 MS: 1:45	6 SR: 4:56 SS: 19:54 MR: 15:53 MS: 2:05	7 SR: 4:56 SS: 19:55 MR: 16:55 MS: 2:26
8 SR: 4:55 SS: 19:55 MR: 17:58 MS: 2:51	9 SR: 4:55 SS: 19:56 MR: 19:01 MS: 3:21	10 SR: 4:55 SS: 19:56 MR: 20:02 MS: 3:58	11 SR: 4:55 SS: 19:57 MR: 20:59 MS: 4:43 FM: 0:46	12 SR: 4:55 SS: 19:57 MR: 21:48 MS: 5:37	13 SR: 4:55 SS: 19:58 MR: 22:29 MS: 6:39	14 SR: 4:55 SS: 19:58 MR: 23:03 MS: 7:47
15 SR: 4:55 SS: 19:58 MR: 23:31 MS: 8:56	16 SR: 4:55 SS: 19:59 MR: 23:56 MS: 10:06	17 SR: 4:55 SS: 19:59 MR: None MS: 11:16	18 SR: 4:55 SS: 19:59 MR: 0:19 MS: 12:26 LQ: 12:21	19 SR: 4:55 SS: 20:00 MR: 0:42 MS: 13:38	20 SR: 4:55 SS: 20:00 MR: 1:06 MS: 14:53 JSO:19:38	21 SR: 4:56 SS: 20:00 MR: 1:33 MS: 16:11
22 SR: 4:56 SS: 20:00 MR: 2:06 MS: 17:31	23 SR: 4:56 SS: 20:00 MR: 2:48 MS: 18:49	24 SR: 4:56 SS: 20:00 MR: 3:40 MS: 19:59	25 SR: 4:57 SS: 20:01 MR: 4:44 MS: 20:57 NM: 3:34	26 SR: 4:57 SS: 20:01 MR: 5:57 MS: 21:42	27 SR: 4:58 SS: 20:01 MR: 7:12 MS: 22:17	28 SR: 4:58 SS: 20:01 MR: 8:24 MS: 22:45
29 SR: 4:58 SS: 20:01 MR: 9:33 MS: 23:09	30 SR: 4:59 SS: 20:00 MR: 10:39 MS: 23:29					

July 2025

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		1 SR: 4:59 SS: 20:00 MR: 11:41 MS: 23:49	2 SR: 5:00 SS: 20:00 MR: 12:42 MS: None FQ: 12:30	3 SR: 5:00 SS: 20:00 MR: 13:43 MS: 0:08	4 SR: 5:01 SS: 20:00 MR: 14:44 MS: 0:29	5 SR: 5:02 SS: 19:59 MR: 15:47 MS: 0:53
6 SR: 5:02 SS: 19:59 MR: 16:50 MS: 1:21	7 SR: 5:03 SS: 19:59 MR: 17:53 MS: 1:55	8 SR: 5:03 SS: 19:58 MR: 18:51 MS: 2:37	9 SR: 5:04 SS: 19:58 MR: 19:43 MS: 3:29	10 SR: 5:05 SS: 19:58 MR: 20:27 MS: 4:29 FM: 13:39	11 SR: 5:06 SS: 19:57 MR: 21:04 MS: 5:36	12 SR: 5:06 SS: 19:57 MR: 21:34 MS: 6:46
13 SR: 5:07 SS: 19:56 MR: 22:00 MS: 7:57	14 SR: 5:08 SS: 19:56 MR: 22:24 MS: 9:08	15 SR: 5:09 SS: 19:55 MR: 22:47 MS: 10:18	16 SR: 5:09 SS: 19:54 MR: 23:10 MS: 11:29	17 SR: 5:10 SS: 19:54 MR: 23:35 MS: 12:42 LQ: 17:40	18 SR: 5:11 SS: 19:53 MR: None MS: 13:57	19 SR: 5:12 SS: 19:52 MR: 0:05 MS: 15:14
20 SR: 5:13 SS: 19:52 MR: 0:42 MS: 16:31	21 SR: 5:14 SS: 19:51 MR: 1:29 MS: 17:43	22 SR: 5:14 SS: 19:50 MR: 2:27 MS: 18:45	23 SR: 5:15 SS: 19:49 MR: 3:35 MS: 19:35	24 SR: 5:16 SS: 19:48 MR: 4:49 MS: 20:14 NM: 12:12	25 SR: 5:17 SS: 19:47 MR: 6:03 MS: 20:45	26 SR: 5:18 SS: 19:46 MR: 7:14 MS: 21:10
27 SR: 5:19 SS: 19:46 MR: 8:22 MS: 21:32	28 SR: 5:20 SS: 19:45 MR: 9:27 MS: 21:52	29 SR: 5:21 SS: 19:44 MR: 10:29 MS: 22:11	30 SR: 5:22 SS: 19:43 MR: 11:30 MS: 22:32	31 SR: 5:23 SS: 19:41 MR: 12:32 MS: 22:54		

August 2025

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1 SR: 5:24 SS: 19:40 MR: 13:34 MS: 23:20 FQ: 5:41	2 SR: 5:24 SS: 19:39 MR: 14:38 MS: 23:51
3 SR: 5:25 SS: 19:38 MR: 15:40 MS: None	4 SR: 5:26 SS: 19:37 MR: 16:41 MS: 0:30	5 SR: 5:27 SS: 19:36 MR: 17:35 MS: 1:18	6 SR: 5:28 SS: 19:35 MR: 18:23 MS: 2:15	7 SR: 5:29 SS: 19:33 MR: 19:02 MS: 3:20	8 SR: 5:30 SS: 19:32 MR: 19:35 MS: 4:30	9 SR: 5:31 SS: 19:31 MR: 20:03 MS: 5:42 FM: 0:57
10 SR: 5:32 SS: 19:30 MR: 20:28 MS: 6:55	11 SR: 5:33 SS: 19:28 MR: 20:51 MS: 8:07	12 SR: 5:34 SS: 19:27 MR: 21:14 MS: 9:19	13 SR: 5:35 SS: 19:26 MR: 21:39 MS: 10:32	14 SR: 5:36 SS: 19:24 MR: 22:08 MS: 11:47	15 SR: 5:37 SS: 19:23 MR: 22:42 MS: 13:04 LQ: 22:14	16 SR: 5:38 SS: 19:22 MR: 23:25 MS: 14:21
17 SR: 5:39 SS: 19:20 MR: None MS: 15:33	18 SR: 5:40 SS: 19:19 MR: 0:18 MS: 16:37	19 SR: 5:41 SS: 19:17 MR: 1:21 MS: 17:30	20 SR: 5:42 SS: 19:16 MR: 2:32 MS: 18:12	21 SR: 5:43 SS: 19:14 MR: 3:45 MS: 18:45	22 SR: 5:44 SS: 19:13 MR: 4:57 MS: 19:12 NM: 23:07	23 SR: 5:45 SS: 19:11 MR: 6:06 MS: 19:34
24 SR: 5:46 SS: 19:10 MR: 7:11 MS: 19:55	25 SR: 5:47 SS: 19:08 MR: 8:15 MS: 20:15	26 SR: 5:48 SS: 19:07 MR: 9:17 MS: 20:35	27 SR: 5:49 SS: 19:05 MR: 10:19 MS: 20:56	28 SR: 5:50 SS: 19:04 MR: 11:21 MS: 21:21	29 SR: 5:51 SS: 19:02 MR: 12:24 MS: 21:50	30 SR: 5:52 SS: 19:00 MR: 13:27 MS: 22:25 FQ: 23:26
31 SR: 5:53 SS: 18:59 MR: 14:28 MS: 23:08						

September 2025

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1 SR: 5:54 SS: 18:57 MR: 15:25 MS: None	2 SR: 5:55 SS: 18:56 MR: 16:15 MS: 0:00	3 SR: 5:56 SS: 18:54 MR: 16:57 MS: 1:01	4 SR: 5:56 SS: 18:52 MR: 17:33 MS: 2:09	5 SR: 5:57 SS: 18:51 MR: 18:03 MS: 3:21	6 SR: 5:58 SS: 18:49 MR: 18:29 MS: 4:34
7 SR: 5:59 SS: 18:47 MR: 18:53 MS: 5:47 FM: 11:11 LE: 11:11	8 SR: 6:00 SS: 18:46 MR: 19:17 MS: 7:01	9 SR: 6:01 SS: 18:44 MR: 19:42 MS: 8:16	10 SR: 6:02 SS: 18:42 MR: 20:10 MS: 9:33	11 SR: 6:03 SS: 18:41 MR: 20:42 MS: 10:51	12 SR: 6:04 SS: 18:39 MR: 21:23 MS: 12:10	13 SR: 6:05 SS: 18:37 MR: 22:13 MS: 13:25
14 SR: 6:06 SS: 18:36 MR: 23:14 MS: 14:32 LQ: 3:35	15 SR: 6:07 SS: 18:34 MR: None MS: 15:28	16 SR: 6:08 SS: 18:32 MR: 0:22 MS: 16:12	17 SR: 6:09 SS: 18:31 MR: 1:34 MS: 16:47	18 SR: 6:10 SS: 18:29 MR: 2:45 MS: 17:15	19 SR: 6:11 SS: 18:27 MR: 3:53 MS: 17:39	20 SR: 6:12 SS: 18:26 MR: 4:59 MS: 18:00
21 SR: 6:13 SS: 18:24 MR: 6:03 MS: 18:19 NM: 12:55 SE: 12:43	22 SR: 6:14 SS: 18:22 MR: 7:05 MS: 18:39 SEQ:11:18	23 SR: 6:15 SS: 18:21 MR: 8:07 MS: 19:00	24 SR: 6:16 SS: 18:19 MR: 9:09 MS: 19:23	25 SR: 6:17 SS: 18:17 MR: 10:12 MS: 19:50	26 SR: 6:18 SS: 18:16 MR: 11:15 MS: 20:23	27 SR: 6:19 SS: 18:14 MR: 12:17 MS: 21:02
28 SR: 6:20 SS: 18:12 MR: 13:15 MS: 21:50	29 SR: 6:21 SS: 18:11 MR: 14:07 MS: 22:47 FQ: 16:55	30 SR: 6:22 SS: 18:09 MR: 14:51 MS: 23:50				

October 2025

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1 SR: 6:23 SS: 18:07 MR: 15:29 MS: None	2 SR: 6:24 SS: 18:06 MR: 16:01 MS: 0:59	3 SR: 6:25 SS: 18:04 MR: 16:28 MS: 2:10	4 SR: 6:26 SS: 18:02 MR: 16:53 MS: 3:22
5 SR: 6:27 SS: 18:01 MR: 17:17 MS: 4:36	6 SR: 6:28 SS: 17:59 MR: 17:42 MS: 5:51 FM: 20:49	7 SR: 6:29 SS: 17:58 MR: 18:09 MS: 7:08	8 SR: 6:30 SS: 17:56 MR: 18:40 MS: 8:28	9 SR: 6:31 SS: 17:54 MR: 19:19 MS: 9:50	10 SR: 6:32 SS: 17:53 MR: 20:07 MS: 11:10	11 SR: 6:33 SS: 17:51 MR: 21:06 MS: 12:22
12 SR: 6:34 SS: 17:50 MR: 22:13 MS: 13:24	13 SR: 6:35 SS: 17:48 MR: 23:25 MS: 14:12 LQ: 11:15	14 SR: 6:36 SS: 17:47 MR: None MS: 14:50	15 SR: 6:37 SS: 17:45 MR: 0:36 MS: 15:19	16 SR: 6:38 SS: 17:44 MR: 1:45 MS: 15:44	17 SR: 6:40 SS: 17:42 MR: 2:51 MS: 16:05	18 SR: 6:41 SS: 17:41 MR: 3:54 MS: 16:25
19 SR: 6:42 SS: 17:39 MR: 4:56 MS: 16:45	20 SR: 6:43 SS: 17:38 MR: 5:58 MS: 17:05	21 SR: 6:44 SS: 17:36 MR: 7:00 MS: 17:27 NM: 5:26	22 SR: 6:45 SS: 17:35 MR: 8:02 MS: 17:53	23 SR: 6:46 SS: 17:34 MR: 9:05 MS: 18:23	24 SR: 6:47 SS: 17:32 MR: 10:07 MS: 19:00	25 SR: 6:48 SS: 17:31 MR: 11:06 MS: 19:45
26 SR: 6:50 SS: 17:30 MR: 12:00 MS: 20:38	27 SR: 6:51 SS: 17:28 MR: 12:47 MS: 21:38	28 SR: 6:52 SS: 17:27 MR: 13:26 MS: 22:43	29 SR: 6:53 SS: 17:26 MR: 13:59 MS: 23:51 FQ: 9:22	30 SR: 6:54 SS: 17:25 MR: 14:27 MS: None	31 SR: 6:55 SS: 17:23 MR: 14:53 MS: 1:00	

November 2025

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						1 SR: 6:56 SS: 17:22 MR: 15:16 MS: 2:11
2 SR: 6:58 SS: 17:21 MR: 15:40 MS: 3:23	3 SR: 6:59 SS: 17:20 MR: 16:05 MS: 4:38	4 SR: 7:00 SS: 17:19 MR: 16:35 MS: 5:57	5 SR: 7:01 SS: 17:18 MR: 17:10 MS: 7:19 FM: 6:20	6 SR: 7:02 SS: 17:16 MR: 17:55 MS: 8:42	7 SR: 7:03 SS: 17:15 MR: 18:51 MS: 10:01	8 SR: 7:05 SS: 17:14 MR: 19:58 MS: 11:10
9 SR: 7:06 SS: 17:13 MR: 21:11 MS: 12:06	10 SR: 7:07 SS: 17:12 MR: 22:25 MS: 12:49	11 SR: 7:08 SS: 17:11 MR: 23:36 MS: 13:22 LQ: 22:30	12 SR: 7:09 SS: 17:11 MR: None MS: 13:48	13 SR: 7:10 SS: 17:10 MR: 0:44 MS: 14:11	14 SR: 7:12 SS: 17:09 MR: 1:48 MS: 14:31	15 SR: 7:13 SS: 17:08 MR: 2:50 MS: 14:51
16 SR: 7:14 SS: 17:07 MR: 3:51 MS: 15:11	17 SR: 7:15 SS: 17:07 MR: 4:52 MS: 15:32	18 SR: 7:16 SS: 17:06 MR: 5:54 MS: 15:57	19 SR: 7:17 SS: 17:05 MR: 6:57 MS: 16:25 NM: 23:48	20 SR: 7:19 SS: 17:04 MR: 7:59 MS: 17:00	21 SR: 7:20 SS: 17:04 MR: 9:00 MS: 17:43	22 SR: 7:21 SS: 17:03 MR: 9:55 MS: 18:33
23 SR: 7:22 SS: 17:03 MR: 10:44 MS: 19:31	24 SR: 7:23 SS: 17:02 MR: 11:25 MS: 20:34	25 SR: 7:24 SS: 17:02 MR: 11:59 MS: 21:40	26 SR: 7:25 SS: 17:01 MR: 12:29 MS: 22:47	27 SR: 7:26 SS: 17:01 MR: 12:54 MS: 23:55 FQ: 24:00	28 SR: 7:27 SS: 17:01 MR: 13:17 MS: None	29 SR: 7:28 SS: 17:00 MR: 13:40 MS: 1:03
30 SR: 7:29 SS: 17:00 MR: 14:03 MS: 2:14						

December 2025

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1 SR: 7:30 SS: 17:00 MR: 14:30 MS: 3:28	2 SR: 7:31 SS: 16:59 MR: 15:01 MS: 4:46	3 SR: 7:32 SS: 16:59 MR: 15:40 MS: 6:08	4 SR: 7:33 SS: 16:59 MR: 16:31 MS: 7:30 FM: 16:15	5 SR: 7:34 SS: 16:59 MR: 17:34 MS: 8:46	6 SR: 7:35 SS: 16:59 MR: 18:47 MS: 9:50
7 SR: 7:36 SS: 16:59 MR: 20:04 MS: 10:41	8 SR: 7:37 SS: 16:59 MR: 21:20 MS: 11:19	9 SR: 7:38 SS: 16:59 MR: 22:31 MS: 11:49	10 SR: 7:39 SS: 16:59 MR: 23:38 MS: 12:14	11 SR: 7:39 SS: 16:59 MR: None MS: 12:35 LQ: 13:53	12 SR: 7:40 SS: 16:59 MR: 0:42 MS: 12:55	13 SR: 7:41 SS: 17:00 MR: 1:44 MS: 13:15
14 SR: 7:42 SS: 17:00 MR: 2:45 MS: 13:36	15 SR: 7:42 SS: 17:00 MR: 3:46 MS: 14:00	16 SR: 7:43 SS: 17:00 MR: 4:49 MS: 14:27	17 SR: 7:44 SS: 17:01 MR: 5:51 MS: 15:00	18 SR: 7:44 SS: 17:01 MR: 6:53 MS: 15:40	19 SR: 7:45 SS: 17:02 MR: 7:50 MS: 16:29 NM: 18:44	20 SR: 7:46 SS: 17:02 MR: 8:41 MS: 17:25
21 SR: 7:46 SS: 17:03 MR: 9:25 MS: 18:27 DSO: 8:00	22 SR: 7:47 SS: 17:03 MR: 10:01 MS: 19:33	23 SR: 7:47 SS: 17:04 MR: 10:32 MS: 20:40	24 SR: 7:47 SS: 17:04 MR: 10:58 MS: 21:46	25 SR: 7:48 SS: 17:05 MR: 11:21 MS: 22:53	26 SR: 7:48 SS: 17:05 MR: 11:43 MS: None	27 SR: 7:48 SS: 17:06 MR: 12:05 MS: 0:01 FQ: 12:11
28 SR: 7:49 SS: 17:07 MR: 12:29 MS: 1:11	29 SR: 7:49 SS: 17:08 MR: 12:57 MS: 2:24	30 SR: 7:49 SS: 17:08 MR: 13:31 MS: 3:41	31 SR: 7:49 SS: 17:09 MR: 14:14 MS: 5:01			

Midway, UT (JMC) Latitude: 40°30'43" N Longitude: 111°28'40" W
Local Time = UT - 7.00 hours Elevation: 1706 meters Year 2025
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Seasons Report for 2025

MEQ: 3/20/2025 1:57 Winter Length: 88.99 days
JSO: 6/20/2025 19:38 Spring Length: 92.74 days
SEQ: 9/22/2025 11:18 Summer Length: 93.65 days
DSO: 12/21/2025 8:00 Autumn Length: 89.86 days

Dates of Easter Report for 2025

4/20/2025

Midway, UT (JMC) Latitude: 40°30'43" N Longitude: 111°28'40" W
Local Time = UT - 7.00 hours Elevation: 1706 meters

Lunar Eclipse Report for 2025

Lunar eclipse on 3/14/2025
Moon rise: 19:14
Moon set: 6:50
Magnitude: 1.18
Partial phase begins: 22:14
Total phase begins: 23:30
Time of maximum eclipse: 0:02
Total phase ends: 0:35
Partial phase ends: 1:51

Lunar eclipse on 9/7/2025
Moon rise: 18:53
Moon set: 5:47
Magnitude: 1.36
Partial phase begins: 9:27
Total phase begins: 10:30
Time of maximum eclipse: 11:11
Total phase ends: 11:51
Partial phase ends: 12:55

Solar Eclipse Report for 2025

Solar eclipse on 3/29/2025
Sun rise: 6:14
Sun set: 18:48
Time of maximum eclipse: 3:47
Eclipse is partial, maximum magnitude = 0.93
Eclipse is visible in the northern hemisphere

Solar eclipse on 9/21/2025
Sun rise: 6:13
Sun set: 18:24
Time of maximum eclipse: 12:43
Eclipse is partial, maximum magnitude = 0.86
Eclipse is visible in the southern hemisphere

The time of maximum eclipse (above) does not necessarily specify when the eclipse will be maximal when viewed from the specified location.

Planet View Info Report for 1/ 1/2025 to 12/31/2025

Mercury

Date	Rise	Set	RA	Dec	Elongation	Ill Fr	DIST(AU)
1/ 1/2025	6:17	15:42	17h16m18s	-21°56'43"	20°58'08"	0.773	1.14807
1/ 8/2025	6:36	15:51	17h57m20s	-23°17'01"	18°33'58"	0.858	1.25290
1/15/2025	6:56	16:07	18h41m56s	-23°47'12"	15°30'42"	0.912	1.32975
1/22/2025	7:12	16:29	19h28m37s	-23°16'37"	12°00'40"	0.949	1.38109
1/29/2025	7:25	16:57	20h16m29s	-21°39'21"	8°05'58"	0.976	1.40787
2/ 5/2025	7:35	17:30	21h04m58s	-18°51'54"	3°53'07"	0.994	1.40860
2/12/2025	7:40	18:07	21h53m39s	-14°52'57"	2°45'43"	0.996	1.37836
2/19/2025	7:42	18:46	22h41m59s	-9°46'10"	7°51'27"	0.962	1.30764
2/26/2025	7:39	19:25	23h28m06s	-3°50'45"	13°31'40"	0.846	1.18433
3/ 5/2025	7:30	19:53	0h06m37s	1°56'44"	17°39'39"	0.603	1.00869
3/12/2025	7:09	19:56	0h28m09s	5°57'04"	17°20'58"	0.298	0.81719
3/19/2025	6:36	19:24	0h26m13s	6°39'42"	10°36'33"	0.070	0.66856
3/26/2025	5:59	18:27	0h07m37s	4°04'59"	3°42'57"	0.007	0.60066
4/ 2/2025	5:28	17:33	23h51m15s	0°31'14"	14°22'10"	0.090	0.61238
4/ 9/2025	5:07	16:59	23h49m26s	-1°37'15"	22°28'16"	0.227	0.67657
4/16/2025	4:53	16:47	0h02m12s	-1°42'51"	26°29'39"	0.360	0.76721
4/23/2025	4:43	16:50	0h25m37s	-0°03'33"	27°21'19"	0.475	0.86964
4/30/2025	4:36	17:06	0h56m40s	2°56'09"	25°53'08"	0.579	0.97701
5/ 7/2025	4:33	17:31	1h34m00s	6°56'03"	22°32'37"	0.684	1.08527
5/14/2025	4:32	18:05	2h17m48s	11°37'43"	17°29'57"	0.797	1.18871
5/21/2025	4:38	18:49	3h09m13s	16°37'01"	10°47'25"	0.914	1.27476
5/28/2025	4:52	19:41	4h08m58s	21°11'42"	2°40'47"	0.994	1.32005
6/ 4/2025	5:17	20:32	5h14m18s	24°19'46"	6°05'24"	0.969	1.30076
6/11/2025	5:49	21:10	6h18m04s	25°18'47"	13°52'14"	0.847	1.22049
6/18/2025	6:22	21:31	7h14m03s	24°20'04"	19°53'17"	0.701	1.10750
6/25/2025	6:50	21:37	7h59m49s	22°02'50"	23°54'16"	0.568	0.98592
7/ 2/2025	7:08	21:30	8h34m44s	19°06'39"	25°48'39"	0.447	0.86810
7/ 9/2025	7:15	21:12	8h58m02s	16°07'04"	25°17'54"	0.329	0.76051
7/16/2025	7:05	20:43	9h08m07s	13°40'13"	21°47'49"	0.206	0.66964
7/23/2025	6:36	20:05	9h03m25s	12°25'09"	14°48'56"	0.089	0.60649
7/30/2025	5:49	19:22	8h46m13s	12°50'06"	5°59'33"	0.015	0.58873
8/ 6/2025	4:57	18:44	8h27m54s	14°36'33"	9°11'37"	0.043	0.63509
8/13/2025	4:20	18:24	8h24m20s	16°33'43"	16°19'26"	0.193	0.75129
8/20/2025	4:10	18:21	8h43m44s	17°24'18"	18°33'51"	0.442	0.92179
8/27/2025	4:29	18:30	9h23m35s	16°11'23"	15°50'11"	0.721	1.10833
9/ 3/2025	5:06	18:39	10h14m03s	12°43'22"	10°02'47"	0.918	1.26095
9/10/2025	5:47	18:44	11h05m11s	7°46'03"	3°37'33"	0.992	1.35393
9/17/2025	6:26	18:45	11h52m49s	2°15'46"	3°22'19"	0.994	1.39387
9/24/2025	7:01	18:42	12h36m49s	-3°12'44"	8°32'09"	0.969	1.39537
10/ 1/2025	7:33	18:38	13h18m11s	-8°22'00"	13°06'56"	0.933	1.36848
10/ 8/2025	8:01	18:33	13h57m50s	-13°02'20"	17°01'01"	0.889	1.31811
10/15/2025	8:27	18:29	14h36m17s	-17°06'15"	20°14'27"	0.834	1.24575
10/22/2025	8:49	18:25	15h13m11s	-20°25'34"	22°39'50"	0.759	1.15088
10/29/2025	9:04	18:21	15h46m41s	-22°48'57"	23°51'46"	0.648	1.03278
11/ 5/2025	9:05	18:12	16h11m38s	-23°58'17"	22°43'03"	0.474	0.89474
11/12/2025	8:36	17:50	16h17m02s	-23°19'26"	16°44'19"	0.221	0.75632
11/19/2025	7:27	17:08	15h52m04s	-20°07'21"	3°16'12"	0.008	0.67815
11/26/2025	6:16	16:26	15h20m38s	-16°15'19"	12°08'41"	0.129	0.73540
12/ 3/2025	5:49	16:03	15h19m27s	-15°38'29"	19°39'08"	0.446	0.89215
12/10/2025	5:54	15:54	15h43m43s	-17°34'49"	20°34'50"	0.684	1.05861
12/17/2025	6:14	15:53	16h20m06s	-20°09'18"	18°41'26"	0.821	1.19588
12/24/2025	6:38	15:59	17h02m12s	-22°23'29"	15°45'53"	0.898	1.29854
12/31/2025	7:02	16:11	17h47m29s	-23°52'09"	12°25'21"	0.944	1.36981

Venus

Date	Rise	Set	RA	Dec	Elongation	Ill Fr	DIST(AU)
1/ 1/2025	10:27	21:01	22h01m36s	-13°35'11"	46°54'51"	0.555	0.75081
1/ 8/2025	10:16	21:12	22h29m00s	-10°26'36"	47°09'06"	0.521	0.69906
1/15/2025	10:02	21:21	22h54m32s	-7°10'34"	47°05'10"	0.484	0.64714
1/22/2025	9:46	21:28	23h18m01s	-3°52'02"	46°38'00"	0.444	0.59541
1/29/2025	9:28	21:33	23h39m14s	-0°36'00"	45°41'24"	0.400	0.54422
2/ 5/2025	9:08	21:34	23h57m45s	2°31'55"	44°07'00"	0.351	0.49401
2/12/2025	8:46	21:30	0h12m51s	5°25'00"	41°42'55"	0.297	0.44548
2/19/2025	8:20	21:21	0h23m35s	7°54'52"	38°13'59"	0.238	0.39975
2/26/2025	7:50	21:04	0h28m49s	9°50'49"	33°23'20"	0.174	0.35831
3/ 5/2025	7:17	20:37	0h27m26s	10°58'42"	26°56'23"	0.110	0.32315
3/12/2025	6:41	20:00	0h19m03s	11°02'38"	18°56'13"	0.053	0.29691
3/19/2025	6:04	19:14	0h05m13s	9°54'19"	10°45'10"	0.017	0.28258
3/26/2025	5:29	18:23	23h49m57s	7°47'19"	9°25'32"	0.013	0.28226
4/ 2/2025	4:58	17:36	23h38m04s	5°18'03"	16°55'21"	0.042	0.29611
4/ 9/2025	4:33	16:57	23h32m40s	3°06'10"	25°01'41"	0.095	0.32245
4/16/2025	4:13	16:28	23h34m34s	1°36'12"	31°41'22"	0.158	0.35864
4/23/2025	3:57	16:08	23h42m59s	0°55'21"	36°42'37"	0.221	0.40195
4/30/2025	3:42	15:55	23h56m34s	1°00'06"	40°19'11"	0.281	0.45015
5/ 7/2025	3:30	15:48	0h13m59s	1°43'09"	42°48'43"	0.336	0.50168
5/14/2025	3:18	15:45	0h34m17s	2°56'53"	44°26'07"	0.386	0.55549
5/21/2025	3:08	15:46	0h56m48s	4°34'16"	45°23'10"	0.431	0.61071
5/28/2025	2:58	15:50	1h21m03s	6°28'35"	45°49'17"	0.473	0.66665
6/ 4/2025	2:49	15:55	1h46m44s	8°33'42"	45°51'23"	0.511	0.72286
6/11/2025	2:40	16:03	2h13m41s	10°44'12"	45°34'17"	0.547	0.77905
6/18/2025	2:33	16:11	2h41m52s	12°55'02"	45°01'38"	0.580	0.83490
6/25/2025	2:27	16:21	3h11m13s	15°01'17"	44°16'34"	0.611	0.89007
7/ 2/2025	2:23	16:32	3h41m44s	16°58'13"	43°21'27"	0.641	0.94434
7/ 9/2025	2:20	16:43	4h13m22s	18°41'23"	42°17'53"	0.669	0.99759
7/16/2025	2:19	16:53	4h46m05s	20°06'42"	41°07'07"	0.696	1.04966
7/23/2025	2:21	17:04	5h19m46s	21°10'23"	39°50'25"	0.721	1.10032
7/30/2025	2:25	17:13	5h54m14s	21°49'11"	38°28'50"	0.745	1.14941
8/ 6/2025	2:32	17:21	6h29m15s	22°00'40"	37°02'59"	0.768	1.19685
8/13/2025	2:41	17:28	7h04m35s	21°43'19"	35°33'22"	0.789	1.24258
8/20/2025	2:53	17:32	7h39m58s	20°56'35"	34°00'38"	0.810	1.28645
8/27/2025	3:05	17:34	8h15m09s	19°40'59"	32°25'24"	0.830	1.32830
9/ 3/2025	3:20	17:34	8h49m55s	17°58'02"	30°47'56"	0.848	1.36810
9/10/2025	3:35	17:32	9h24m07s	15°50'03"	29°08'30"	0.866	1.40584
9/17/2025	3:50	17:28	9h57m45s	13°19'55"	27°27'29"	0.882	1.44145
9/24/2025	4:06	17:23	10h30m47s	10°31'02"	25°45'18"	0.897	1.47480
10/ 1/2025	4:22	17:17	11h03m20s	7°27'09"	24°02'10"	0.912	1.50588
10/ 8/2025	4:38	17:10	11h35m30s	4°12'11"	22°18'11"	0.925	1.53473
10/15/2025	4:54	17:03	12h07m30s	0°50'04"	20°33'38"	0.937	1.56136
10/22/2025	5:10	16:56	12h39m31s	-2°35'04"	18°48'51"	0.947	1.58569
10/29/2025	5:26	16:49	13h11m46s	-5°58'59"	17°03'57"	0.957	1.60771
11/ 5/2025	5:43	16:43	13h44m28s	-9°17'18"	15°19'00"	0.966	1.62751
11/12/2025	6:00	16:37	14h17m49s	-12°25'38"	13°34'11"	0.973	1.64515
11/19/2025	6:17	16:33	14h51m59s	-15°19'27"	11°49'45"	0.980	1.66062
11/26/2025	6:35	16:31	15h27m05s	-17°54'08"	10°05'47"	0.985	1.67389
12/ 3/2025	6:52	16:31	16h03m10s	-20°05'11"	8°22'16"	0.990	1.68505
12/10/2025	7:08	16:34	16h40m11s	-21°48'27"	6°39'21"	0.994	1.69421
12/17/2025	7:23	16:40	17h17m58s	-23°00'19"	4°57'20"	0.997	1.70138
12/24/2025	7:36	16:48	17h56m17s	-23°38'04"	3°16'42"	0.998	1.70652
12/31/2025	7:47	16:59	18h34m46s	-23°40'08"	1°39'43"	1.000	1.70967

Mars

Date	Rise	Set	RA	Dec	Elongation	Ill Fr	DIST(AU)
1/ 1/2025	18:26	9:30	8h20m30s	23°32'53"	158°33'51"	0.987	0.65673
1/ 8/2025	17:44	8:56	8h10m04s	24°18'53"	167°50'04"	0.996	0.64458
1/15/2025	17:02	8:20	7h58m20s	25°01'06"	175°27'02"	0.999	0.64294
1/22/2025	16:20	7:43	7h46m26s	25°35'13"	170°37'46"	0.998	0.65218
1/29/2025	15:40	7:06	7h35m30s	25°58'45"	161°34'23"	0.991	0.67214
2/ 5/2025	15:03	6:31	7h26m33s	26°11'14"	152°38'05"	0.981	0.70206
2/12/2025	14:30	5:58	7h20m11s	26°13'58"	144°13'41"	0.968	0.74066
2/19/2025	13:59	5:26	7h16m40s	26°08'52"	136°26'53"	0.955	0.78655
2/26/2025	13:32	4:57	7h15m55s	25°57'39"	129°17'58"	0.943	0.83843
3/ 5/2025	13:08	4:31	7h17m48s	25°41'28"	122°45'15"	0.932	0.89508
3/12/2025	12:47	4:06	7h21m59s	25°21'00"	116°45'35"	0.923	0.95527
3/19/2025	12:28	3:43	7h28m09s	24°56'33"	111°14'44"	0.915	1.01804
3/26/2025	12:10	3:21	7h36m00s	24°28'02"	106°08'43"	0.909	1.08265
4/ 2/2025	11:54	3:00	7h45m16s	23°55'13"	101°24'30"	0.904	1.14845
4/ 9/2025	11:40	2:40	7h55m42s	23°17'51"	96°59'26"	0.901	1.21476
4/16/2025	11:27	2:21	8h07m06s	22°35'43"	92°50'44"	0.899	1.28110
4/23/2025	11:15	2:02	8h19m15s	21°48'36"	88°55'58"	0.899	1.34713
4/30/2025	11:04	1:44	8h32m04s	20°56'19"	85°13'30"	0.899	1.41252
5/ 7/2025	10:54	1:26	8h45m23s	19°58'47"	81°42'06"	0.900	1.47689
5/14/2025	10:45	1:08	8h59m06s	18°56'02"	78°20'20"	0.902	1.53998
5/21/2025	10:36	0:50	9h13m09s	17°48'08"	75°06'49"	0.904	1.60163
5/28/2025	10:27	0:32	9h27m27s	16°35'09"	72°00'40"	0.907	1.66168
6/ 4/2025	10:19	0:14	9h41m58s	15°17'16"	69°01'19"	0.910	1.71990
6/11/2025	10:11	23:53	9h56m39s	13°54'44"	66°08'05"	0.913	1.77611
6/18/2025	10:04	23:35	10h11m28s	12°27'50"	63°20'06"	0.917	1.83027
6/25/2025	9:57	23:17	10h26m25s	10°56'49"	60°36'46"	0.921	1.88232
7/ 2/2025	9:50	22:58	10h41m29s	9°21'59"	57°57'50"	0.925	1.93208
7/ 9/2025	9:44	22:40	10h56m39s	7°43'46"	55°22'58"	0.929	1.97946
7/16/2025	9:37	22:22	11h11m57s	6°02'33"	52°51'37"	0.934	2.02446
7/23/2025	9:31	22:04	11h27m22s	4°18'43"	50°23'19"	0.938	2.06709
7/30/2025	9:25	21:46	11h42m56s	2°32'39"	47°57'57"	0.942	2.10723
8/ 6/2025	9:19	21:28	11h58m40s	0°44'52"	45°35'23"	0.946	2.14482
8/13/2025	9:14	21:10	12h14m36s	-1°04'07"	43°15'15"	0.951	2.17991
8/20/2025	9:09	20:52	12h30m45s	-2°53'49"	40°57'13"	0.955	2.21255
8/27/2025	9:04	20:35	12h47m09s	-4°43'42"	38°41'10"	0.959	2.24268
9/ 3/2025	8:59	20:18	13h03m50s	-6°33'10"	36°27'07"	0.962	2.27025
9/10/2025	8:55	20:01	13h20m51s	-8°21'31"	34°14'54"	0.966	2.29534
9/17/2025	8:51	19:45	13h38m12s	-10°08'08"	32°04'13"	0.970	2.31806
9/24/2025	8:48	19:29	13h55m57s	-11°52'18"	29°55'00"	0.973	2.33838
10/ 1/2025	8:44	19:13	14h14m08s	-13°33'14"	27°47'22"	0.977	2.35629
10/ 8/2025	8:41	18:59	14h32m46s	-15°10'03"	25°41'17"	0.980	2.37189
10/15/2025	8:39	18:44	14h51m53s	-16°41'56"	23°36'33"	0.983	2.38532
10/22/2025	8:36	18:31	15h11m30s	-18°07'58"	21°33'07"	0.985	2.39661
10/29/2025	8:34	18:18	15h31m38s	-19°27'12"	19°31'09"	0.988	2.40577
11/ 5/2025	8:32	18:07	15h52m17s	-20°38'39"	17°30'44"	0.990	2.41291
11/12/2025	8:30	17:56	16h13m26s	-21°41'21"	15°31'49"	0.992	2.41822
11/19/2025	8:27	17:47	16h35m05s	-22°34'23"	13°34'20"	0.994	2.42176
11/26/2025	8:25	17:38	16h57m12s	-23°16'51"	11°38'29"	0.995	2.42358
12/ 3/2025	8:22	17:31	17h19m41s	-23°47'57"	9°44'30"	0.997	2.42379
12/10/2025	8:19	17:25	17h42m31s	-24°06'59"	7°52'26"	0.998	2.42260
12/17/2025	8:15	17:20	18h05m37s	-24°13'25"	6°02'25"	0.999	2.42011
12/24/2025	8:10	17:17	18h28m52s	-24°06'52"	4°15'01"	0.999	2.41637
12/31/2025	8:04	17:14	18h52m13s	-23°47'12"	2°32'13"	1.000	2.41150

Jupiter

Date	Rise	Set	RA	Dec	Elongation	Ill Fr	DIST(AU)
1/ 1/2025	15:02	5:51	4h47m28s	21°47'20"	152°22'11"	0.998	4.18899
1/ 8/2025	14:32	5:20	4h44m32s	21°43'34"	144°33'08"	0.997	4.24983
1/15/2025	14:03	4:50	4h42m11s	21°40'44"	136°52'32"	0.996	4.32277
1/22/2025	13:34	4:21	4h40m28s	21°39'03"	129°21'18"	0.994	4.40633
1/29/2025	13:05	3:52	4h39m27s	21°38'37"	122°00'04"	0.993	4.49901
2/ 5/2025	12:37	3:25	4h39m08s	21°39'32"	114°49'38"	0.992	4.59913
2/12/2025	12:10	2:58	4h39m33s	21°41'49"	107°50'20"	0.991	4.70491
2/19/2025	11:44	2:31	4h40m38s	21°45'21"	101°01'54"	0.991	4.81473
2/26/2025	11:18	2:06	4h42m24s	21°50'04"	94°23'54"	0.991	4.92706
3/ 5/2025	10:52	1:41	4h44m48s	21°55'47"	87°56'07"	0.990	5.04039
3/12/2025	10:27	1:17	4h47m47s	22°02'21"	81°38'16"	0.991	5.15320
3/19/2025	10:03	0:54	4h51m19s	22°09'32"	75°29'40"	0.991	5.26425
3/26/2025	9:39	0:31	4h55m22s	22°17'08"	69°29'29"	0.992	5.37241
4/ 2/2025	9:15	0:08	4h59m52s	22°24'58"	63°37'10"	0.992	5.47659
4/ 9/2025	8:52	23:43	5h04m48s	22°32'48"	57°52'19"	0.993	5.57574
4/16/2025	8:29	23:22	5h10m05s	22°40'27"	52°14'15"	0.994	5.66903
4/23/2025	8:07	23:00	5h15m42s	22°47'44"	46°42'06"	0.995	5.75579
4/30/2025	7:45	22:39	5h21m37s	22°54'29"	41°15'13"	0.996	5.83532
5/ 7/2025	7:23	22:18	5h27m46s	23°00'33"	35°53'15"	0.997	5.90696
5/14/2025	7:01	21:57	5h34m09s	23°05'48"	30°35'36"	0.997	5.97028
5/21/2025	6:40	21:37	5h40m42s	23°10'07"	25°21'29"	0.998	6.02493
5/28/2025	6:19	21:16	5h47m24s	23°13'26"	20°10'13"	0.999	6.07052
6/ 4/2025	5:58	20:56	5h54m13s	23°15'40"	15°01'24"	0.999	6.10672
6/11/2025	5:37	20:35	6h01m07s	23°16'46"	9°54'38"	1.000	6.13338
6/18/2025	5:17	20:14	6h08m03s	23°16'42"	4°49'11"	1.000	6.15041
6/25/2025	4:56	19:54	6h15m01s	23°15'27"	0°17'57"	1.000	6.15769
7/ 2/2025	4:36	19:33	6h21m58s	23°13'03"	5°20'50"	1.000	6.15513
7/ 9/2025	4:15	19:12	6h28m52s	23°09'30"	10°25'52"	1.000	6.14281
7/16/2025	3:55	18:51	6h35m43s	23°04'53"	15°31'51"	0.999	6.12089
7/23/2025	3:35	18:30	6h42m27s	22°59'14"	20°39'34"	0.999	6.08948
7/30/2025	3:14	18:08	6h49m03s	22°52'40"	25°49'30"	0.998	6.04872
8/ 6/2025	2:54	17:47	6h55m30s	22°45'16"	31°02'04"	0.997	5.99895
8/13/2025	2:33	17:25	7h01m45s	22°37'11"	36°17'51"	0.997	5.94057
8/20/2025	2:12	17:02	7h07m46s	22°28'32"	41°37'43"	0.996	5.87394
8/27/2025	1:51	16:40	7h13m32s	22°19'30"	47°02'20"	0.995	5.79948
9/ 3/2025	1:29	16:17	7h18m59s	22°10'16"	52°32'07"	0.994	5.71783
9/10/2025	1:08	15:54	7h24m07s	22°01'01"	58°07'38"	0.993	5.62970
9/17/2025	0:45	15:31	7h28m52s	21°51'57"	63°49'47"	0.992	5.53579
9/24/2025	0:23	15:07	7h33m12s	21°43'19"	69°39'23"	0.992	5.43687
10/ 1/2025	23:56	14:42	7h37m05s	21°35'19"	75°36'53"	0.991	5.33397
10/ 8/2025	23:33	14:18	7h40m28s	21°28'12"	81°42'48"	0.991	5.22819
10/15/2025	23:08	13:52	7h43m18s	21°22'10"	87°57'57"	0.991	5.12066
10/22/2025	22:43	13:27	7h45m34s	21°17'27"	94°23'08"	0.991	5.01259
10/29/2025	22:17	13:01	7h47m13s	21°14'14"	100°58'43"	0.991	4.90545
11/ 5/2025	21:51	12:34	7h48m12s	21°12'39"	107°44'54"	0.992	4.80079
11/12/2025	21:23	12:07	7h48m32s	21°12'50"	114°42'03"	0.992	4.70012
11/19/2025	20:55	11:39	7h48m10s	21°14'49"	121°50'34"	0.993	4.60505
11/26/2025	20:26	11:10	7h47m07s	21°18'35"	129°10'09"	0.995	4.51734
12/ 3/2025	19:57	10:42	7h45m24s	21°24'01"	136°40'03"	0.996	4.43871
12/10/2025	19:26	10:12	7h43m04s	21°30'55"	144°19'34"	0.997	4.37068
12/17/2025	18:55	9:42	7h40m11s	21°39'01"	152°07'51"	0.998	4.31471
12/24/2025	18:23	9:12	7h36m49s	21°48'00"	160°03'21"	0.999	4.27218
12/31/2025	17:51	8:41	7h33m05s	21°57'28"	168°03'53"	1.000	4.24416

Saturn

Date	Rise	Set	RA	Dec	Elongation	Ill Fr	DIST(AU)
1/ 1/2025	11:10	22:20	23h06m14s	-7°54'09"	63°46'03"	0.998	10.04746
1/ 8/2025	10:44	21:55	23h08m18s	-7°40'20"	57°11'47"	0.998	10.14837
1/15/2025	10:18	21:31	23h10m35s	-7°25'11"	50°41'28"	0.998	10.24204
1/22/2025	9:52	21:07	23h13m03s	-7°08'52"	44°14'43"	0.999	10.32742
1/29/2025	9:26	20:43	23h15m42s	-6°51'30"	37°51'16"	0.999	10.40351
2/ 5/2025	9:00	20:19	23h18m30s	-6°33'16"	31°31'10"	0.999	10.46933
2/12/2025	8:34	19:56	23h21m26s	-6°14'19"	25°14'30"	1.000	10.52419
2/19/2025	8:09	19:33	23h24m28s	-5°54'49"	19°01'08"	1.000	10.56758
2/26/2025	7:43	19:09	23h27m34s	-5°34'54"	12°51'27"	1.000	10.59906
3/ 5/2025	7:17	18:46	23h30m43s	-5°14'45"	6°48'58"	1.000	10.61823
3/12/2025	6:52	18:23	23h33m54s	-4°54'31"	1°57'35"	1.000	10.62497
3/19/2025	6:26	18:00	23h37m05s	-4°34'22"	6°01'15"	1.000	10.61935
3/26/2025	6:01	17:36	23h40m14s	-4°14'27"	11°57'11"	1.000	10.60144
4/ 2/2025	5:35	17:13	23h43m22s	-3°54'55"	17°58'43"	1.000	10.57141
4/ 9/2025	5:10	16:50	23h46m25s	-3°35'55"	24°01'08"	1.000	10.52964
4/16/2025	4:44	16:26	23h49m23s	-3°17'37"	30°03'52"	0.999	10.47669
4/23/2025	4:19	16:02	23h52m14s	-3°00'08"	36°07'14"	0.999	10.41313
4/30/2025	3:53	15:39	23h54m57s	-2°43'38"	42°11'36"	0.999	10.33956
5/ 7/2025	3:27	15:14	23h57m32s	-2°28'15"	48°17'04"	0.998	10.25684
5/14/2025	3:01	14:50	23h59m55s	-2°14'08"	54°23'57"	0.998	10.16594
5/21/2025	2:35	14:25	0h02m08s	-2°01'22"	60°32'54"	0.998	10.06783
5/28/2025	2:09	14:00	0h04m07s	-1°50'07"	66°44'30"	0.998	9.96351
6/ 4/2025	1:42	13:35	0h05m53s	-1°40'28"	72°58'58"	0.997	9.85421
6/11/2025	1:16	13:10	0h07m23s	-1°32'33"	79°16'34"	0.997	9.74126
6/18/2025	0:49	12:44	0h08m38s	-1°26'24"	85°37'53"	0.997	9.62594
6/25/2025	0:22	12:17	0h09m36s	-1°22'08"	92°03'31"	0.997	9.50959
7/ 2/2025	23:52	11:50	0h10m17s	-1°19'48"	98°33'40"	0.997	9.39371
7/ 9/2025	23:24	11:23	0h10m40s	-1°19'26"	105°08'24"	0.997	9.27988
7/16/2025	22:57	10:56	0h10m44s	-1°21'00"	111°48'02"	0.998	9.16957
7/23/2025	22:29	10:28	0h10m31s	-1°24'29"	118°33'00"	0.998	9.06425
7/30/2025	22:02	9:59	0h10m00s	-1°29'51"	125°23'18"	0.998	8.96553
8/ 6/2025	21:34	9:31	0h09m11s	-1°36'59"	132°18'34"	0.998	8.87496
8/13/2025	21:06	9:01	0h08m07s	-1°45'43"	139°18'40"	0.999	8.79391
8/20/2025	20:37	8:32	0h06m47s	-1°55'52"	146°23'30"	0.999	8.72365
8/27/2025	20:09	8:02	0h05m15s	-2°07'14"	153°32'30"	0.999	8.66545
9/ 3/2025	19:40	7:32	0h03m32s	-2°19'32"	160°44'15"	1.000	8.62039
9/10/2025	19:12	7:02	0h01m41s	-2°32'26"	167°56'00"	1.000	8.58924
9/17/2025	18:43	6:32	23h59m45s	-2°45'40"	174°52'59"	1.000	8.57254
9/24/2025	18:14	6:02	23h57m46s	-2°58'52"	176°08'47"	1.000	8.57074
10/ 1/2025	17:45	5:32	23h55m48s	-3°11'41"	169°22'27"	1.000	8.58396
10/ 8/2025	17:17	5:01	23h53m54s	-3°23'47"	162°05'33"	1.000	8.61191
10/15/2025	16:48	4:32	23h52m06s	-3°34'51"	154°44'37"	1.000	8.65410
10/22/2025	16:20	4:02	23h50m29s	-3°44'37"	147°23'10"	0.999	8.70990
10/29/2025	15:51	3:33	23h49m04s	-3°52'49"	140°02'56"	0.999	8.77835
11/ 5/2025	15:23	3:03	23h47m53s	-3°59'15"	132°45'02"	0.999	8.85817
11/12/2025	14:55	2:35	23h46m59s	-4°03'45"	125°29'59"	0.998	8.94798
11/19/2025	14:27	2:07	23h46m22s	-4°06'14"	118°18'04"	0.998	9.04637
11/26/2025	13:59	1:39	23h46m04s	-4°06'36"	111°09'53"	0.998	9.15172
12/ 3/2025	13:31	1:11	23h46m05s	-4°04'50"	104°06'00"	0.997	9.26223
12/10/2025	13:04	0:44	23h46m26s	-4°00'57"	97°06'28"	0.997	9.37619
12/17/2025	12:37	0:18	23h47m06s	-3°55'02"	90°11'13"	0.997	9.49196
12/24/2025	12:10	23:48	23h48m04s	-3°47'07"	83°20'22"	0.997	9.60782
12/31/2025	11:43	23:23	23h49m21s	-3°37'18"	76°34'12"	0.997	9.72203

Uranus

Date	Rise	Set	RA	Dec	Elongation	Ill Fr	DIST(AU)
1/ 1/2025	13:55	4:15	3h25m14s	18°26'14"	132°48'09"	1.000	18.87404
1/ 8/2025	13:27	3:47	3h24m37s	18°24'06"	125°30'53"	1.000	18.96670
1/15/2025	12:59	3:19	3h24m09s	18°22'31"	118°16'15"	1.000	19.06808
1/22/2025	12:31	2:51	3h23m50s	18°21'33"	111°04'21"	0.999	19.17653
1/29/2025	12:03	2:23	3h23m42s	18°21'13"	103°55'22"	0.999	19.29040
2/ 5/2025	11:36	1:56	3h23m45s	18°21'32"	96°49'44"	0.999	19.40785
2/12/2025	11:09	1:29	3h23m58s	18°22'30"	89°47'51"	0.999	19.52698
2/19/2025	10:41	1:02	3h24m22s	18°24'06"	82°49'39"	0.999	19.64604
2/26/2025	10:14	0:35	3h24m56s	18°26'19"	75°55'01"	0.999	19.76337
3/ 5/2025	9:47	0:08	3h25m39s	18°29'07"	69°04'06"	0.999	19.87722
3/12/2025	9:20	23:38	3h26m32s	18°32'28"	62°17'07"	0.999	19.98596
3/19/2025	8:54	23:12	3h27m33s	18°36'17"	55°33'51"	1.000	20.08816
3/26/2025	8:27	22:46	3h28m43s	18°40'33"	48°53'59"	1.000	20.18257
4/ 2/2025	8:00	22:20	3h29m59s	18°45'12"	42°17'21"	1.000	20.26791
4/ 9/2025	7:34	21:54	3h31m22s	18°50'11"	35°44'02"	1.000	20.34308
4/16/2025	7:08	21:28	3h32m50s	18°55'24"	29°13'47"	1.000	20.40724
4/23/2025	6:41	21:03	3h34m22s	19°00'50"	22°46'05"	1.000	20.45971
4/30/2025	6:15	20:37	3h35m58s	19°06'24"	16°20'36"	1.000	20.49982
5/ 7/2025	5:49	20:12	3h37m37s	19°12'03"	9°57'17"	1.000	20.52711
5/14/2025	5:22	19:46	3h39m17s	19°17'43"	3°36'03"	1.000	20.54137
5/21/2025	4:56	19:21	3h40m58s	19°23'21"	2°45'00"	1.000	20.54253
5/28/2025	4:30	18:55	3h42m38s	19°28'54"	9°04'02"	1.000	20.53055
6/ 4/2025	4:04	18:30	3h44m18s	19°34'18"	15°22'42"	1.000	20.50555
6/11/2025	3:37	18:04	3h45m55s	19°39'31"	21°40'58"	1.000	20.46794
6/18/2025	3:11	17:38	3h47m29s	19°44'31"	27°59'24"	1.000	20.41822
6/25/2025	2:45	17:13	3h48m59s	19°49'14"	34°18'35"	1.000	20.35689
7/ 2/2025	2:18	16:47	3h50m25s	19°53'39"	40°38'43"	1.000	20.28465
7/ 9/2025	1:52	16:21	3h51m44s	19°57'43"	47°00'00"	1.000	20.20245
7/16/2025	1:25	15:55	3h52m57s	20°01'26"	53°22'54"	1.000	20.11128
7/23/2025	0:59	15:29	3h54m03s	20°04'43"	59°48'01"	0.999	20.01215
7/30/2025	0:32	15:02	3h55m01s	20°07'35"	66°15'38"	0.999	19.90623
8/ 6/2025	0:05	14:36	3h55m50s	20°10'00"	72°45'49"	0.999	19.79494
8/13/2025	23:34	14:09	3h56m30s	20°11'57"	79°18'54"	0.999	19.67968
8/20/2025	23:07	13:42	3h57m00s	20°13'25"	85°55'24"	0.999	19.56184
8/27/2025	22:40	13:15	3h57m21s	20°14'24"	92°35'34"	0.999	19.44298
9/ 3/2025	22:12	12:47	3h57m30s	20°14'52"	99°19'20"	0.999	19.32478
9/10/2025	21:45	12:20	3h57m30s	20°14'50"	106°06'46"	0.999	19.20890
9/17/2025	21:17	11:52	3h57m19s	20°14'18"	112°58'14"	0.999	19.09691
9/24/2025	20:49	11:24	3h56m58s	20°13'17"	119°53'50"	1.000	18.99046
10/ 1/2025	20:21	10:56	3h56m28s	20°11'47"	126°53'19"	1.000	18.89125
10/ 8/2025	19:53	10:28	3h55m48s	20°09'50"	133°56'25"	1.000	18.80084
10/15/2025	19:25	9:59	3h55m00s	20°07'29"	141°03'14"	1.000	18.72058
10/22/2025	18:57	9:31	3h54m05s	20°04'45"	148°13'40"	1.000	18.65182
10/29/2025	18:28	9:02	3h53m03s	20°01'41"	155°27'15"	1.000	18.59583
11/ 5/2025	18:00	8:33	3h51m56s	19°58'21"	162°43'22"	1.000	18.55354
11/12/2025	17:32	8:04	3h50m46s	19°54'49"	170°01'47"	1.000	18.52566
11/19/2025	17:03	7:35	3h49m33s	19°51'09"	177°22'00"	1.000	18.51273
11/26/2025	16:35	7:06	3h48m20s	19°47'25"	175°15'15"	1.000	18.51511
12/ 3/2025	16:06	6:37	3h47m09s	19°43'44"	167°52'45"	1.000	18.53275
12/10/2025	15:38	6:08	3h45m59s	19°40'10"	160°29'56"	1.000	18.56533
12/17/2025	15:09	5:39	3h44m54s	19°36'48"	153°07'09"	1.000	18.61233
12/24/2025	14:41	5:11	3h43m54s	19°33'43"	145°45'03"	1.000	18.67305
12/31/2025	14:13	4:42	3h43m02s	19°30'59"	138°24'25"	1.000	18.74640

Neptune

Date	Rise	Set	RA	Dec	Elongation	Ill Fr	DIST(AU)
1/ 1/2025	11:36	23:25	23h52m09s	-2°15'04"	76°29'22"	1.000	30.10886
1/ 8/2025	11:09	22:58	23h52m33s	-2°12'13"	69°27'57"	1.000	30.22497
1/15/2025	10:42	22:31	23h53m03s	-2°08'47"	62°28'25"	1.000	30.33591
1/22/2025	10:14	22:04	23h53m37s	-2°04'47"	55°30'40"	1.000	30.44015
1/29/2025	9:47	21:38	23h54m17s	-2°00'17"	48°34'38"	1.000	30.53623
2/ 5/2025	9:20	21:11	23h55m01s	-1°55'19"	41°40'35"	1.000	30.62272
2/12/2025	8:53	20:45	23h55m49s	-1°49'58"	34°48'48"	1.000	30.69844
2/19/2025	8:26	20:19	23h56m40s	-1°44'18"	27°59'08"	1.000	30.76246
2/26/2025	7:59	19:52	23h57m35s	-1°38'21"	21°11'29"	1.000	30.81396
3/ 5/2025	7:32	19:26	23h58m31s	-1°32'14"	14°26'14"	1.000	30.85222
3/12/2025	7:05	19:00	23h59m28s	-1°25'58"	7°44'52"	1.000	30.87679
3/19/2025	6:39	18:34	0h00m27s	-1°19'41"	1°34'20"	1.000	30.88750
3/26/2025	6:12	18:07	0h01m25s	-1°13'24"	5°52'54"	1.000	30.88429
4/ 2/2025	5:45	17:41	0h02m23s	-1°07'12"	12°28'03"	1.000	30.86718
4/ 9/2025	5:18	17:15	0h03m20s	-1°01'10"	19°04'45"	1.000	30.83650
4/16/2025	4:51	16:49	0h04m15s	-0°55'22"	25°40'51"	1.000	30.79282
4/23/2025	4:24	16:22	0h05m08s	-0°49'50"	32°16'23"	1.000	30.73674
4/30/2025	3:57	15:56	0h05m58s	-0°44'40"	38°51'28"	1.000	30.66897
5/ 7/2025	3:30	15:29	0h06m45s	-0°39'53"	45°26'01"	1.000	30.59048
5/14/2025	3:03	15:03	0h07m27s	-0°35'33"	52°00'09"	1.000	30.50243
5/21/2025	2:36	14:36	0h08m06s	-0°31'42"	58°34'20"	1.000	30.40596
5/28/2025	2:09	14:09	0h08m39s	-0°28'24"	65°08'56"	1.000	30.30228
6/ 4/2025	1:41	13:42	0h09m08s	-0°25'40"	71°43'58"	1.000	30.19281
6/11/2025	1:14	13:15	0h09m31s	-0°23'32"	78°19'30"	1.000	30.07910
6/18/2025	0:47	12:48	0h09m49s	-0°22'01"	84°55'56"	1.000	29.96261
6/25/2025	0:19	12:21	0h10m01s	-0°21'07"	91°33'42"	1.000	29.84485
7/ 2/2025	23:48	11:54	0h10m07s	-0°20'52"	98°12'50"	1.000	29.72745
7/ 9/2025	23:21	11:26	0h10m07s	-0°21'15"	104°53'17"	1.000	29.61211
7/16/2025	22:53	10:58	0h10m01s	-0°22'16"	111°35'20"	1.000	29.50036
7/23/2025	22:25	10:31	0h09m50s	-0°23'52"	118°19'23"	1.000	29.39370
7/30/2025	21:58	10:03	0h09m33s	-0°26'03"	125°05'27"	1.000	29.29373
8/ 6/2025	21:30	9:35	0h09m11s	-0°28'45"	131°53'20"	1.000	29.20197
8/13/2025	21:02	9:06	0h08m44s	-0°31'57"	138°43'07"	1.000	29.11969
8/20/2025	20:34	8:38	0h08m13s	-0°35'35"	145°35'05"	1.000	29.04810
8/27/2025	20:06	8:10	0h07m39s	-0°39'34"	152°29'10"	1.000	28.98838
9/ 3/2025	19:38	7:41	0h07m01s	-0°43'51"	159°24'53"	1.000	28.94152
9/10/2025	19:11	7:13	0h06m21s	-0°48'21"	166°21'43"	1.000	28.90825
9/17/2025	18:43	6:44	0h05m39s	-0°52'59"	173°17'33"	1.000	28.88908
9/24/2025	18:15	6:16	0h04m57s	-0°57'40"	178°32'52"	1.000	28.88447
10/ 1/2025	17:47	5:47	0h04m14s	-1°02'18"	172°20'38"	1.000	28.89462
10/ 8/2025	17:19	5:19	0h03m33s	-1°06'48"	165°19'21"	1.000	28.91938
10/15/2025	16:51	4:51	0h02m53s	-1°11'05"	158°14'30"	1.000	28.95839
10/22/2025	16:23	4:22	0h02m15s	-1°15'05"	151°07'50"	1.000	29.01121
10/29/2025	15:55	3:54	0h01m40s	-1°18'41"	144°00'11"	1.000	29.07711
11/ 5/2025	15:27	3:26	0h01m10s	-1°21'50"	136°52'07"	1.000	29.15503
11/12/2025	14:59	2:58	0h00m43s	-1°24'28"	129°43'44"	1.000	29.24376
11/19/2025	14:32	2:30	0h00m22s	-1°26'32"	122°35'08"	1.000	29.34207
11/26/2025	14:04	2:02	0h00m06s	-1°27'59"	115°26'41"	1.000	29.44845
12/ 3/2025	13:36	1:34	23h59m56s	-1°28'47"	108°18'54"	1.000	29.56119
12/10/2025	13:09	1:06	23h59m52s	-1°28'55"	101°11'56"	1.000	29.67855
12/17/2025	12:41	0:39	23h59m54s	-1°28'23"	94°05'43"	1.000	29.79885
12/24/2025	12:14	0:12	0h00m03s	-1°27'09"	87°00'35"	1.000	29.92025
12/31/2025	11:46	23:41	0h00m18s	-1°25'15"	79°56'57"	1.000	30.04083

Pluto

Date	Rise	Set	RA	Dec	Elongation	Ill Fr	DIST(AU)
1/ 1/2025	9:18	18:32	20h16m16s	-23°06'59"	20°30'02"	1.000	36.09105
1/ 8/2025	8:51	18:06	20h17m11s	-23°04'26"	13°43'18"	1.000	36.13095
1/15/2025	8:25	17:40	20h18m08s	-23°01'52"	7°12'48"	1.000	36.15683
1/22/2025	7:58	17:13	20h19m06s	-22°59'19"	3°19'52"	1.000	36.16846
1/29/2025	7:31	16:47	20h20m04s	-22°56'50"	8°04'22"	1.000	36.16571
2/ 5/2025	7:04	16:20	20h21m01s	-22°54'27"	14°37'31"	1.000	36.14866
2/12/2025	6:38	15:54	20h21m57s	-22°52'12"	21°22'16"	1.000	36.11772
2/19/2025	6:11	15:28	20h22m50s	-22°50'07"	28°09'50"	1.000	36.07349
2/26/2025	5:44	15:01	20h23m42s	-22°48'14"	34°58'25"	1.000	36.01662
3/ 5/2025	5:17	14:34	20h24m30s	-22°46'35"	41°47'09"	1.000	35.94799
3/12/2025	4:50	14:08	20h25m14s	-22°45'12"	48°35'33"	1.000	35.86872
3/19/2025	4:23	13:41	20h25m54s	-22°44'05"	55°23'31"	1.000	35.78010
3/26/2025	3:56	13:14	20h26m30s	-22°43'17"	62°11'18"	1.000	35.68337
4/ 2/2025	3:29	12:47	20h27m00s	-22°42'48"	68°58'50"	1.000	35.57995
4/ 9/2025	3:02	12:20	20h27m25s	-22°42'39"	75°45'55"	1.000	35.47147
4/16/2025	2:35	11:53	20h27m45s	-22°42'51"	82°32'33"	1.000	35.35956
4/23/2025	2:08	11:25	20h27m59s	-22°43'23"	89°19'05"	1.000	35.24579
4/30/2025	1:40	10:58	20h28m07s	-22°44'15"	96°05'36"	1.000	35.13180
5/ 7/2025	1:13	10:30	20h28m09s	-22°45'28"	102°51'56"	1.000	35.01936
5/14/2025	0:45	10:03	20h28m06s	-22°46'59"	109°38'01"	1.000	34.91014
5/21/2025	0:18	9:35	20h27m57s	-22°48'48"	116°24'11"	1.000	34.80564
5/28/2025	23:46	9:07	20h27m42s	-22°50'54"	123°10'34"	1.000	34.70741
6/ 4/2025	23:19	8:39	20h27m23s	-22°53'14"	129°56'57"	1.000	34.61698
6/11/2025	22:51	8:11	20h26m59s	-22°55'47"	136°43'09"	1.000	34.53572
6/18/2025	22:23	7:42	20h26m30s	-22°58'31"	143°29'13"	1.000	34.46477
6/25/2025	21:55	7:14	20h25m58s	-23°01'22"	150°15'04"	1.000	34.40520
7/ 2/2025	21:27	6:46	20h25m23s	-23°04'19"	156°59'50"	1.000	34.35806
7/ 9/2025	20:59	6:18	20h24m45s	-23°07'18"	163°41'20"	1.000	34.32406
7/16/2025	20:31	5:49	20h24m05s	-23°10'18"	170°12'26"	1.000	34.30371
7/23/2025	20:03	5:21	20h23m24s	-23°13'15"	175°38'47"	1.000	34.29741
7/30/2025	19:35	4:52	20h22m43s	-23°16'07"	174°01'36"	1.000	34.30543
8/ 6/2025	19:07	4:24	20h22m02s	-23°18'51"	167°54'02"	1.000	34.32772
8/13/2025	18:39	3:56	20h21m23s	-23°21'25"	161°15'20"	1.000	34.36398
8/20/2025	18:11	3:27	20h20m45s	-23°23'47"	154°29'04"	1.000	34.41381
8/27/2025	17:43	2:59	20h20m10s	-23°25'55"	147°39'36"	1.000	34.47668
9/ 3/2025	17:16	2:31	20h19m38s	-23°27'46"	140°48'35"	1.000	34.55172
9/10/2025	16:48	2:03	20h19m09s	-23°29'21"	133°56'37"	1.000	34.63787
9/17/2025	16:20	1:35	20h18m45s	-23°30'37"	127°03'44"	1.000	34.73402
9/24/2025	15:52	1:07	20h18m26s	-23°31'35"	120°10'02"	1.000	34.83893
10/ 1/2025	15:24	0:39	20h18m13s	-23°32'12"	113°15'52"	1.000	34.95111
10/ 8/2025	14:57	0:11	20h18m04s	-23°32'29"	106°21'28"	1.000	35.06895
10/15/2025	14:29	23:40	20h18m02s	-23°32'26"	99°26'40"	1.000	35.19086
10/22/2025	14:02	23:12	20h18m05s	-23°32'03"	92°31'22"	1.000	35.31520
10/29/2025	13:34	22:45	20h18m15s	-23°31'20"	85°35'52"	1.000	35.44019
11/ 5/2025	13:07	22:18	20h18m31s	-23°30'20"	78°40'26"	1.000	35.56401
11/12/2025	12:40	21:51	20h18m52s	-23°29'01"	71°44'56"	1.000	35.68498
11/19/2025	12:13	21:24	20h19m19s	-23°27'26"	64°49'15"	1.000	35.80147
11/26/2025	11:45	20:57	20h19m51s	-23°25'36"	57°53'40"	1.000	35.91179
12/ 3/2025	11:18	20:30	20h20m28s	-23°23'33"	50°58'30"	1.000	36.01434
12/10/2025	10:51	20:04	20h21m10s	-23°21'18"	44°03'51"	1.000	36.10777
12/17/2025	10:24	19:37	20h21m56s	-23°18'53"	37°09'43"	1.000	36.19085
12/24/2025	9:58	19:11	20h22m45s	-23°16'20"	30°16'34"	1.000	36.26237
12/31/2025	9:31	18:44	20h23m37s	-23°13'42"	23°25'28"	1.000	36.32133

Midway, UT (JMC) Latitude: 40°30'43" N Longitude: 111°28'40" W
Local Time = UT - 7.00 hours Elevation: 1706 meters Year 2025
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Planet Apsides Report for 2025

Earth

1/ 3/2025	Perihelion	Distance from Sun:	0.98 AU
7/ 4/2025	Aphelion	Distance from Sun:	1.02 AU

Mercury

3/ 4/2025	Perihelion	Distance from Sun:	0.31 AU
5/31/2025	Perihelion	Distance from Sun:	0.31 AU
8/27/2025	Perihelion	Distance from Sun:	0.31 AU
11/23/2025	Perihelion	Distance from Sun:	0.31 AU
1/19/2025	Aphelion	Distance from Sun:	0.47 AU
4/17/2025	Aphelion	Distance from Sun:	0.47 AU
7/14/2025	Aphelion	Distance from Sun:	0.47 AU
10/10/2025	Aphelion	Distance from Sun:	0.47 AU

Venus

2/19/2025	Perihelion	Distance from Sun:	0.72 AU
10/ 2/2025	Perihelion	Distance from Sun:	0.72 AU
6/11/2025	Aphelion	Distance from Sun:	0.73 AU

Mars

4/16/2025	Aphelion	Distance from Sun:	1.67 AU
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Jupiter

No Apsis

Saturn

No Apsis

Planet Conjunction/Opposition Report for 1/ 1/2025 to 12/31/2025

Mercury

Date	Hour	Event
2/ 9/2025	5	Superior Conjunction
3/24/2025	17	Inferior Conjunction
5/29/2025	21	Superior Conjunction
7/31/2025	17	Inferior Conjunction
9/13/2025	4	Superior Conjunction
11/20/2025	2	Inferior Conjunction

Venus

Date	Hour	Event
3/22/2025	18	Inferior Conjunction

Mars

Date	Hour	Event
1/15/2025	20	Opposition

Jupiter

Date	Hour	Event
6/24/2025	17	Conjunction (Occultation)

Saturn

Date	Hour	Event
3/12/2025	4	Conjunction
9/20/2025	23	Opposition

Uranus

Date	Hour	Event
5/17/2025	17	Conjunction (Occultation)
11/21/2025	17	Opposition

Neptune

Date	Hour	Event
3/19/2025	17	Conjunction
9/23/2025	17	Opposition

Pluto

Date	Hour	Event
1/21/2025	17	Conjunction
7/25/2025	0	Opposition

Midway, UT (JMC) Latitude: 40°30'43" N Longitude: 111°28'40" W
 Local Time = UT - 7.00 hours Elevation: 1706 meters Year 2025
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Planet Data Report

Planet	Mean Dist From Sun (AU)	Period of Revolution	Inclination	Equatorial Diameter (km)
Mercury	0.39	88 days	7°	4880
Venus	0.72	224.7 days	3.4°	12100
Earth	1.00	365.24 days	0°	12756
Mars	1.52	687 days	1.9°	6794
Jupiter	5.20	11.86 years	1.3°	143200
Saturn	9.54	29.46 years	2.5°	120000
Uranus	19.18	84 years	0.8°	52290
Neptune	30.06	165 years	1.8°	50450
Pluto	39.44	248 years	17.2°	2200-2300

Moon Apisdes Report for 1/ 1/2025 to 12/31/2025

Date	Hour	Apsis	Distance (km)	Diameter
1/ 7/2025	17	Perigee	370189	0.5380°
1/20/2025	22	Apogee	404300	0.4926°
2/ 1/2025	20	Perigee	367464	0.5420°
2/17/2025	18	Apogee	404872	0.4919°
3/ 1/2025	14	Perigee	361968	0.5502°
3/17/2025	9	Apogee	405758	0.4908°
3/29/2025	22	Perigee	358134	0.5561°
4/13/2025	16	Apogee	406300	0.4902°
4/27/2025	9	Perigee	357127	0.5577°
5/10/2025	18	Apogee	406225	0.4903°
5/25/2025	18	Perigee	359035	0.5547°
6/ 7/2025	3	Apogee	405558	0.4911°
6/22/2025	22	Perigee	363190	0.5484°
7/ 4/2025	20	Apogee	404642	0.4922°
7/20/2025	7	Perigee	368039	0.5411°
8/ 1/2025	14	Apogee	404167	0.4928°
8/14/2025	11	Perigee	369284	0.5393°
8/29/2025	8	Apogee	404559	0.4923°
9/10/2025	5	Perigee	364775	0.5460°
9/26/2025	3	Apogee	405565	0.4911°
10/ 8/2025	6	Perigee	359813	0.5535°
10/23/2025	17	Apogee	406453	0.4900°
11/ 5/2025	16	Perigee	356847	0.5581°
11/19/2025	20	Apogee	406693	0.4897°
12/ 4/2025	4	Perigee	356991	0.5579°
12/16/2025	23	Apogee	406311	0.4902°

Moon Nodes Report for 1/ 1/2025 to 12/31/2025

Date	Time	Node	Illuminated Fraction
1/ 5/2025	12:45	Ascending	0.34
1/18/2025	18:47	Descending	0.78
2/ 1/2025	15:05	Ascending	0.12
2/14/2025	23:52	Descending	0.94
2/28/2025	22:39	Ascending	0.01
3/14/2025	6:44	Descending	1.00
3/28/2025	9:28	Ascending	0.02
4/10/2025	12:55	Descending	0.95

