

Sun

Sakaeo

Location: E102°04'37.1", N13°48'10.8", 0m
(Longitude referred to Greenwich meridian)

Time Zone: 7h 00m east of Greenwich

Date (Zone)			Begin Nautical Twilight	Rise	Az.	Transit Alt.	Set	Az.	End Nautical Twilight
			h m	h m	°	h m °	h m °		h m
2025	Jan	01 (Wed)	05:46	06:35	114	12:15 54S	17:55	247	18:45
2025	Jan	02 (Thu)	05:46	06:36	113	12:16 54S	17:56	247	18:45
2025	Jan	03 (Fri)	05:46	06:36	113	12:16 54S	17:56	247	18:46
2025	Jan	04 (Sat)	05:47	06:36	113	12:17 54S	17:57	247	18:46
2025	Jan	05 (Sun)	05:47	06:37	113	12:17 54S	17:58	247	18:47
2025	Jan	06 (Mon)	05:48	06:37	113	12:18 54S	17:58	247	18:48
2025	Jan	07 (Tue)	05:48	06:37	113	12:18 55S	17:59	247	18:48
2025	Jan	08 (Wed)	05:48	06:38	113	12:18 55S	17:59	247	18:49
2025	Jan	09 (Thu)	05:49	06:38	113	12:19 55S	18:00	247	18:49
2025	Jan	10 (Fri)	05:49	06:38	112	12:19 55S	18:00	248	18:50
2025	Jan	11 (Sat)	05:49	06:38	112	12:20 55S	18:01	248	18:50
2025	Jan	12 (Sun)	05:49	06:39	112	12:20 55S	18:02	248	18:51
2025	Jan	13 (Mon)	05:50	06:39	112	12:20 55S	18:02	248	18:51
2025	Jan	14 (Tue)	05:50	06:39	112	12:21 56S	18:03	248	18:52
2025	Jan	15 (Wed)	05:50	06:39	112	12:21 56S	18:03	249	18:52
2025	Jan	16 (Thu)	05:50	06:39	111	12:21 56S	18:04	249	18:53
2025	Jan	17 (Fri)	05:50	06:39	111	12:22 56S	18:04	249	18:53
2025	Jan	18 (Sat)	05:51	06:39	111	12:22 56S	18:05	249	18:54
2025	Jan	19 (Sun)	05:51	06:40	111	12:22 57S	18:05	249	18:54
2025	Jan	20 (Mon)	05:51	06:40	111	12:23 57S	18:06	250	18:55
2025	Jan	21 (Tue)	05:51	06:40	110	12:23 57S	18:06	250	18:55
2025	Jan	22 (Wed)	05:51	06:40	110	12:23 57S	18:07	250	18:55
2025	Jan	23 (Thu)	05:51	06:40	110	12:24 58S	18:07	250	18:56
2025	Jan	24 (Fri)	05:51	06:40	110	12:24 58S	18:08	251	18:56
2025	Jan	25 (Sat)	05:51	06:40	109	12:24 58S	18:08	251	18:57
2025	Jan	26 (Sun)	05:51	06:40	109	12:24 58S	18:09	251	18:57
2025	Jan	27 (Mon)	05:51	06:40	109	12:24 59S	18:09	251	18:58
2025	Jan	28 (Tue)	05:51	06:39	109	12:25 59S	18:10	252	18:58
2025	Jan	29 (Wed)	05:51	06:39	108	12:25 59S	18:10	252	18:58
2025	Jan	30 (Thu)	05:51	06:39	108	12:25 59S	18:11	252	18:59
2025	Jan	31 (Fri)	05:51	06:39	108	12:25 60S	18:11	252	18:59
2025	Feb	01 (Sat)	05:51	06:39	107	12:25 60S	18:12	253	19:00
2025	Feb	02 (Sun)	05:51	06:39	107	12:25 60S	18:12	253	19:00
2025	Feb	03 (Mon)	05:51	06:39	107	12:25 60S	18:13	253	19:00
2025	Feb	04 (Tue)	05:51	06:38	107	12:26 61S	18:13	254	19:01
2025	Feb	05 (Wed)	05:51	06:38	106	12:26 61S	18:13	254	19:01
2025	Feb	06 (Thu)	05:50	06:38	106	12:26 61S	18:14	254	19:01
2025	Feb	07 (Fri)	05:50	06:38	106	12:26 62S	18:14	255	19:02
2025	Feb	08 (Sat)	05:50	06:37	105	12:26 62S	18:14	255	19:02
2025	Feb	09 (Sun)	05:50	06:37	105	12:26 62S	18:15	255	19:02
2025	Feb	10 (Mon)	05:50	06:37	105	12:26 63S	18:15	256	19:02
2025	Feb	11 (Tue)	05:49	06:36	104	12:26 63S	18:16	256	19:03
2025	Feb	12 (Wed)	05:49	06:36	104	12:26 63S	18:16	256	19:03
2025	Feb	13 (Thu)	05:49	06:36	104	12:26 64S	18:16	257	19:03
2025	Feb	14 (Fri)	05:48	06:35	103	12:26 64S	18:16	257	19:03
2025	Feb	15 (Sat)	05:48	06:35	103	12:26 64S	18:17	257	19:04
2025	Feb	16 (Sun)	05:48	06:35	102	12:26 65S	18:17	258	19:04
2025	Feb	17 (Mon)	05:47	06:34	102	12:26 65S	18:17	258	19:04
2025	Feb	18 (Tue)	05:47	06:34	102	12:26 65S	18:18	258	19:04
2025	Feb	19 (Wed)	05:47	06:33	101	12:25 66S	18:18	259	19:05
2025	Feb	20 (Thu)	05:46	06:33	101	12:25 66S	18:18	259	19:05
2025	Feb	21 (Fri)	05:46	06:32	101	12:25 66S	18:18	260	19:05
2025	Feb	22 (Sat)	05:45	06:32	100	12:25 67S	18:19	260	19:05
2025	Feb	23 (Sun)	05:45	06:31	100	12:25 67S	18:19	260	19:05
2025	Feb	24 (Mon)	05:44	06:31	100	12:25 68S	18:19	261	19:06
2025	Feb	25 (Tue)	05:44	06:30	99	12:25 68S	18:19	261	19:06
2025	Feb	26 (Wed)	05:43	06:30	99	12:25 68S	18:20	261	19:06
2025	Feb	27 (Thu)	05:43	06:29	98	12:24 69S	18:20	262	19:06
2025	Feb	28 (Fri)	05:42	06:29	98	12:24 69S	18:20	262	19:06
2025	Mar	01 (Sat)	05:42	06:28	98	12:24 69S	18:20	263	19:06

2025	Mar	02	(Sun)	05:41	06:28	97	12:24	70S	18:20	263	19:07
2025	Mar	03	(Mon)	05:41	06:27	97	12:24	70S	18:20	263	19:07
2025	Mar	04	(Tue)	05:40	06:26	96	12:23	71S	18:21	264	19:07
2025	Mar	05	(Wed)	05:40	06:26	96	12:23	71S	18:21	264	19:07
2025	Mar	06	(Thu)	05:39	06:25	96	12:23	71S	18:21	265	19:07
2025	Mar	07	(Fri)	05:38	06:25	95	12:23	72S	18:21	265	19:07
2025	Mar	08	(Sat)	05:38	06:24	95	12:22	72S	18:21	265	19:07
2025	Mar	09	(Sun)	05:37	06:23	94	12:22	73S	18:21	266	19:07
2025	Mar	10	(Mon)	05:37	06:23	94	12:22	73S	18:21	266	19:08
2025	Mar	11	(Tue)	05:36	06:22	94	12:22	73S	18:22	267	19:08
2025	Mar	12	(Wed)	05:35	06:21	93	12:21	74S	18:22	267	19:08
2025	Mar	13	(Thu)	05:35	06:21	93	12:21	74S	18:22	267	19:08
2025	Mar	14	(Fri)	05:34	06:20	92	12:21	74S	18:22	268	19:08
2025	Mar	15	(Sat)	05:33	06:19	92	12:21	75S	18:22	268	19:08
2025	Mar	16	(Sun)	05:33	06:19	92	12:20	75S	18:22	269	19:08
2025	Mar	17	(Mon)	05:32	06:18	91	12:20	76S	18:22	269	19:08
2025	Mar	18	(Tue)	05:31	06:17	91	12:20	76S	18:22	269	19:08
2025	Mar	19	(Wed)	05:31	06:17	90	12:19	76S	18:22	270	19:08
2025	Mar	20	(Thu)	05:30	06:16	90	12:19	77S	18:23	270	19:09
2025	Mar	21	(Fri)	05:29	06:15	90	12:19	77S	18:23	271	19:09
2025	Mar	22	(Sat)	05:29	06:15	89	12:19	78S	18:23	271	19:09
2025	Mar	23	(Sun)	05:28	06:14	89	12:18	78S	18:23	271	19:09
2025	Mar	24	(Mon)	05:27	06:13	88	12:18	78S	18:23	272	19:09
2025	Mar	25	(Tue)	05:26	06:13	88	12:18	79S	18:23	272	19:09
2025	Mar	26	(Wed)	05:26	06:12	88	12:17	79S	18:23	273	19:09
2025	Mar	27	(Thu)	05:25	06:11	87	12:17	80S	18:23	273	19:09
2025	Mar	28	(Fri)	05:24	06:10	87	12:17	80S	18:23	273	19:09
2025	Mar	29	(Sat)	05:24	06:10	86	12:16	80S	18:23	274	19:10
2025	Mar	30	(Sun)	05:23	06:09	86	12:16	81S	18:23	274	19:10
2025	Mar	31	(Mon)	05:22	06:08	86	12:16	81S	18:23	275	19:10
2025	Apr	01	(Tue)	05:21	06:08	85	12:16	82S	18:24	275	19:10
2025	Apr	02	(Wed)	05:21	06:07	85	12:15	82S	18:24	275	19:10
2025	Apr	03	(Thu)	05:20	06:06	84	12:15	82S	18:24	276	19:10
2025	Apr	04	(Fri)	05:19	06:06	84	12:15	83S	18:24	276	19:10
2025	Apr	05	(Sat)	05:19	06:05	84	12:14	83S	18:24	277	19:10
2025	Apr	06	(Sun)	05:18	06:04	83	12:14	83S	18:24	277	19:11
2025	Apr	07	(Mon)	05:17	06:04	83	12:14	84S	18:24	277	19:11
2025	Apr	08	(Tue)	05:16	06:03	82	12:14	84S	18:24	278	19:11
2025	Apr	09	(Wed)	05:16	06:02	82	12:13	85S	18:24	278	19:11
2025	Apr	10	(Thu)	05:15	06:02	82	12:13	85S	18:24	279	19:11
2025	Apr	11	(Fri)	05:14	06:01	81	12:13	85S	18:25	279	19:11
2025	Apr	12	(Sat)	05:14	06:00	81	12:12	86S	18:25	279	19:11
2025	Apr	13	(Sun)	05:13	06:00	80	12:12	86S	18:25	280	19:12
2025	Apr	14	(Mon)	05:12	05:59	80	12:12	86S	18:25	280	19:12
2025	Apr	15	(Tue)	05:12	05:59	80	12:12	87S	18:25	280	19:12
2025	Apr	16	(Wed)	05:11	05:58	79	12:11	87S	18:25	281	19:12
2025	Apr	17	(Thu)	05:10	05:57	79	12:11	87S	18:25	281	19:12
2025	Apr	18	(Fri)	05:10	05:57	79	12:11	88S	18:25	282	19:13
2025	Apr	19	(Sat)	05:09	05:56	78	12:11	88S	18:26	282	19:13
2025	Apr	20	(Sun)	05:08	05:56	78	12:11	89S	18:26	282	19:13
2025	Apr	21	(Mon)	05:08	05:55	78	12:10	89S	18:26	283	19:13
2025	Apr	22	(Tue)	05:07	05:55	77	12:10	89S	18:26	283	19:14
2025	Apr	23	(Wed)	05:06	05:54	77	12:10	90S	18:26	283	19:14
2025	Apr	24	(Thu)	05:06	05:54	77	12:10	90S	18:26	284	19:14
2025	Apr	25	(Fri)	05:05	05:53	76	12:10	90S	18:26	284	19:14
2025	Apr	26	(Sat)	05:05	05:52	76	12:09	91S	18:27	284	19:15
2025	Apr	27	(Sun)	05:04	05:52	76	12:09	91N	18:27	285	19:15
2025	Apr	28	(Mon)	05:04	05:51	75	12:09	90N	18:27	285	19:15
2025	Apr	29	(Tue)	05:03	05:51	75	12:09	90N	18:27	285	19:15
2025	Apr	30	(Wed)	05:02	05:51	75	12:09	90N	18:27	286	19:16
2025	May	01	(Thu)	05:02	05:50	74	12:09	89N	18:28	286	19:16
2025	May	02	(Fri)	05:01	05:50	74	12:09	89N	18:28	286	19:16
2025	May	03	(Sat)	05:01	05:49	74	12:09	89N	18:28	287	19:16
2025	May	04	(Sun)	05:00	05:49	73	12:08	88N	18:28	287	19:17
2025	May	05	(Mon)	05:00	05:48	73	12:08	88N	18:29	287	19:17
2025	May	06	(Tue)	04:59	05:48	73	12:08	88N	18:29	287	19:17
2025	May	07	(Wed)	04:59	05:48	72	12:08	88N	18:29	288	19:18
2025	May	08	(Thu)	04:59	05:47	72	12:08	87N	18:29	288	19:18
2025	May	09	(Fri)	04:58	05:47	72	12:08	87N	18:29	288	19:18
2025	May	10	(Sat)	04:58	05:47	72	12:08	87N	18:30	289	19:19
2025	May	11	(Sun)	04:57	05:46	71	12:08	87N	18:30	289	19:19
2025	May	12	(Mon)	04:57	05:46	71	12:08	86N	18:30	289	19:19

2025	May	13	(Tue)	04:56	05:46	71	12:08	86N	18:31	289	19:20
2025	May	14	(Wed)	04:56	05:45	71	12:08	86N	18:31	290	19:20
2025	May	15	(Thu)	04:56	05:45	70	12:08	86N	18:31	290	19:21
2025	May	16	(Fri)	04:55	05:45	70	12:08	85N	18:31	290	19:21
2025	May	17	(Sat)	04:55	05:45	70	12:08	85N	18:32	290	19:21
2025	May	18	(Sun)	04:55	05:44	70	12:08	85N	18:32	290	19:22
2025	May	19	(Mon)	04:55	05:44	69	12:08	85N	18:32	291	19:22
2025	May	20	(Tue)	04:54	05:44	69	12:08	84N	18:32	291	19:22
2025	May	21	(Wed)	04:54	05:44	69	12:08	84N	18:33	291	19:23
2025	May	22	(Thu)	04:54	05:44	69	12:08	84N	18:33	291	19:23
2025	May	23	(Fri)	04:54	05:44	69	12:08	84N	18:33	292	19:23
2025	May	24	(Sat)	04:53	05:43	68	12:09	84N	18:34	292	19:24
2025	May	25	(Sun)	04:53	05:43	68	12:09	84N	18:34	292	19:24
2025	May	26	(Mon)	04:53	05:43	68	12:09	83N	18:34	292	19:25
2025	May	27	(Tue)	04:53	05:43	68	12:09	83N	18:35	292	19:25
2025	May	28	(Wed)	04:53	05:43	68	12:09	83N	18:35	292	19:25
2025	May	29	(Thu)	04:53	05:43	67	12:09	83N	18:35	293	19:26
2025	May	30	(Fri)	04:52	05:43	67	12:09	83N	18:36	293	19:26
2025	May	31	(Sat)	04:52	05:43	67	12:09	83N	18:36	293	19:27
2025	Jun	01	(Sun)	04:52	05:43	67	12:10	82N	18:36	293	19:27
2025	Jun	02	(Mon)	04:52	05:43	67	12:10	82N	18:37	293	19:27
2025	Jun	03	(Tue)	04:52	05:43	67	12:10	82N	18:37	293	19:28
2025	Jun	04	(Wed)	04:52	05:43	67	12:10	82N	18:37	293	19:28
2025	Jun	05	(Thu)	04:52	05:43	67	12:10	82N	18:37	294	19:28
2025	Jun	06	(Fri)	04:52	05:43	66	12:10	82N	18:38	294	19:29
2025	Jun	07	(Sat)	04:52	05:43	66	12:11	82N	18:38	294	19:29
2025	Jun	08	(Sun)	04:52	05:43	66	12:11	82N	18:38	294	19:29
2025	Jun	09	(Mon)	04:52	05:43	66	12:11	82N	18:39	294	19:30
2025	Jun	10	(Tue)	04:52	05:43	66	12:11	81N	18:39	294	19:30
2025	Jun	11	(Wed)	04:52	05:44	66	12:11	81N	18:39	294	19:30
2025	Jun	12	(Thu)	04:53	05:44	66	12:12	81N	18:40	294	19:31
2025	Jun	13	(Fri)	04:53	05:44	66	12:12	81N	18:40	294	19:31
2025	Jun	14	(Sat)	04:53	05:44	66	12:12	81N	18:40	294	19:31
2025	Jun	15	(Sun)	04:53	05:44	66	12:12	81N	18:40	294	19:32
2025	Jun	16	(Mon)	04:53	05:44	66	12:12	81N	18:41	294	19:32
2025	Jun	17	(Tue)	04:53	05:44	66	12:13	81N	18:41	294	19:32
2025	Jun	18	(Wed)	04:53	05:45	66	12:13	81N	18:41	294	19:32
2025	Jun	19	(Thu)	04:54	05:45	66	12:13	81N	18:41	294	19:33
2025	Jun	20	(Fri)	04:54	05:45	66	12:13	81N	18:42	294	19:33
2025	Jun	21	(Sat)	04:54	05:45	66	12:13	81N	18:42	294	19:33
2025	Jun	22	(Sun)	04:54	05:45	66	12:14	81N	18:42	294	19:33
2025	Jun	23	(Mon)	04:54	05:46	66	12:14	81N	18:42	294	19:33
2025	Jun	24	(Tue)	04:55	05:46	66	12:14	81N	18:42	294	19:34
2025	Jun	25	(Wed)	04:55	05:46	66	12:14	81N	18:43	294	19:34
2025	Jun	26	(Thu)	04:55	05:46	66	12:15	81N	18:43	294	19:34
2025	Jun	27	(Fri)	04:55	05:47	66	12:15	81N	18:43	294	19:34
2025	Jun	28	(Sat)	04:56	05:47	66	12:15	81N	18:43	294	19:34
2025	Jun	29	(Sun)	04:56	05:47	66	12:15	81N	18:43	294	19:34
2025	Jun	30	(Mon)	04:56	05:47	66	12:15	81N	18:43	294	19:34
2025	Jul	01	(Tue)	04:57	05:48	66	12:16	81N	18:43	294	19:35
2025	Jul	02	(Wed)	04:57	05:48	66	12:16	81N	18:44	294	19:35
2025	Jul	03	(Thu)	04:57	05:48	66	12:16	82N	18:44	294	19:35
2025	Jul	04	(Fri)	04:58	05:49	66	12:16	82N	18:44	294	19:35
2025	Jul	05	(Sat)	04:58	05:49	66	12:16	82N	18:44	294	19:35
2025	Jul	06	(Sun)	04:58	05:49	66	12:16	82N	18:44	294	19:35
2025	Jul	07	(Mon)	04:59	05:49	66	12:17	82N	18:44	293	19:35
2025	Jul	08	(Tue)	04:59	05:50	67	12:17	82N	18:44	293	19:35
2025	Jul	09	(Wed)	04:59	05:50	67	12:17	82N	18:44	293	19:35
2025	Jul	10	(Thu)	05:00	05:50	67	12:17	82N	18:44	293	19:35
2025	Jul	11	(Fri)	05:00	05:51	67	12:17	82N	18:44	293	19:34
2025	Jul	12	(Sat)	05:00	05:51	67	12:17	83N	18:44	293	19:34
2025	Jul	13	(Sun)	05:01	05:51	67	12:17	83N	18:44	293	19:34
2025	Jul	14	(Mon)	05:01	05:51	67	12:18	83N	18:44	292	19:34
2025	Jul	15	(Tue)	05:01	05:52	68	12:18	83N	18:44	292	19:34
2025	Jul	16	(Wed)	05:02	05:52	68	12:18	83N	18:43	292	19:34
2025	Jul	17	(Thu)	05:02	05:52	68	12:18	83N	18:43	292	19:34
2025	Jul	18	(Fri)	05:02	05:53	68	12:18	84N	18:43	292	19:33
2025	Jul	19	(Sat)	05:03	05:53	68	12:18	84N	18:43	292	19:33
2025	Jul	20	(Sun)	05:03	05:53	68	12:18	84N	18:43	291	19:33
2025	Jul	21	(Mon)	05:03	05:53	69	12:18	84N	18:43	291	19:33
2025	Jul	22	(Tue)	05:04	05:54	69	12:18	84N	18:43	291	19:32
2025	Jul	23	(Wed)	05:04	05:54	69	12:18	84N	18:42	291	19:32

2025	Jul	24	(Thu)	05:04	05:54	69	12:18	85N	18:42	291	19:32
2025	Jul	25	(Fri)	05:05	05:55	70	12:18	85N	18:42	290	19:32
2025	Jul	26	(Sat)	05:05	05:55	70	12:18	85N	18:42	290	19:31
2025	Jul	27	(Sun)	05:05	05:55	70	12:18	85N	18:41	290	19:31
2025	Jul	28	(Mon)	05:06	05:55	70	12:18	86N	18:41	290	19:30
2025	Jul	29	(Tue)	05:06	05:55	70	12:18	86N	18:41	289	19:30
2025	Jul	30	(Wed)	05:06	05:56	71	12:18	86N	18:40	289	19:30
2025	Jul	31	(Thu)	05:07	05:56	71	12:18	86N	18:40	289	19:29
2025	Aug	01	(Fri)	05:07	05:56	71	12:18	87N	18:40	289	19:29
2025	Aug	02	(Sat)	05:07	05:56	71	12:18	87N	18:39	288	19:28
2025	Aug	03	(Sun)	05:08	05:57	72	12:18	87N	18:39	288	19:28
2025	Aug	04	(Mon)	05:08	05:57	72	12:18	87N	18:39	288	19:28
2025	Aug	05	(Tue)	05:08	05:57	72	12:18	88N	18:38	288	19:27
2025	Aug	06	(Wed)	05:08	05:57	73	12:18	88N	18:38	287	19:27
2025	Aug	07	(Thu)	05:09	05:57	73	12:18	88N	18:37	287	19:26
2025	Aug	08	(Fri)	05:09	05:58	73	12:17	88N	18:37	287	19:25
2025	Aug	09	(Sat)	05:09	05:58	73	12:17	89N	18:37	286	19:25
2025	Aug	10	(Sun)	05:10	05:58	74	12:17	89N	18:36	286	19:24
2025	Aug	11	(Mon)	05:10	05:58	74	12:17	89N	18:36	286	19:24
2025	Aug	12	(Tue)	05:10	05:58	74	12:17	90N	18:35	285	19:23
2025	Aug	13	(Wed)	05:10	05:58	75	12:17	90N	18:35	285	19:23
2025	Aug	14	(Thu)	05:10	05:59	75	12:16	90N	18:34	285	19:22
2025	Aug	15	(Fri)	05:11	05:59	75	12:16	91N	18:34	285	19:21
2025	Aug	16	(Sat)	05:11	05:59	76	12:16	91S	18:33	284	19:21
2025	Aug	17	(Sun)	05:11	05:59	76	12:16	90S	18:33	284	19:20
2025	Aug	18	(Mon)	05:11	05:59	76	12:16	90S	18:32	284	19:20
2025	Aug	19	(Tue)	05:12	05:59	77	12:15	90S	18:31	283	19:19
2025	Aug	20	(Wed)	05:12	05:59	77	12:15	89S	18:31	283	19:18
2025	Aug	21	(Thu)	05:12	05:59	77	12:15	89S	18:30	283	19:18
2025	Aug	22	(Fri)	05:12	05:59	78	12:15	89S	18:30	282	19:17
2025	Aug	23	(Sat)	05:12	06:00	78	12:14	88S	18:29	282	19:16
2025	Aug	24	(Sun)	05:12	06:00	78	12:14	88S	18:28	281	19:16
2025	Aug	25	(Mon)	05:13	06:00	79	12:14	88S	18:28	281	19:15
2025	Aug	26	(Tue)	05:13	06:00	79	12:14	87S	18:27	281	19:14
2025	Aug	27	(Wed)	05:13	06:00	79	12:13	87S	18:26	280	19:13
2025	Aug	28	(Thu)	05:13	06:00	80	12:13	87S	18:26	280	19:13
2025	Aug	29	(Fri)	05:13	06:00	80	12:13	86S	18:25	280	19:12
2025	Aug	30	(Sat)	05:13	06:00	81	12:12	86S	18:24	279	19:11
2025	Aug	31	(Sun)	05:13	06:00	81	12:12	85S	18:24	279	19:11
2025	Sep	01	(Mon)	05:13	06:00	81	12:12	85S	18:23	279	19:10
2025	Sep	02	(Tue)	05:14	06:00	82	12:11	85S	18:22	278	19:09
2025	Sep	03	(Wed)	05:14	06:00	82	12:11	84S	18:22	278	19:08
2025	Sep	04	(Thu)	05:14	06:00	82	12:11	84S	18:21	277	19:08
2025	Sep	05	(Fri)	05:14	06:00	83	12:10	84S	18:20	277	19:07
2025	Sep	06	(Sat)	05:14	06:00	83	12:10	83S	18:20	277	19:06
2025	Sep	07	(Sun)	05:14	06:00	84	12:10	83S	18:19	276	19:05
2025	Sep	08	(Mon)	05:14	06:00	84	12:09	82S	18:18	276	19:05
2025	Sep	09	(Tue)	05:14	06:00	84	12:09	82S	18:17	275	19:04
2025	Sep	10	(Wed)	05:14	06:01	85	12:09	82S	18:17	275	19:03
2025	Sep	11	(Thu)	05:14	06:01	85	12:08	81S	18:16	275	19:02
2025	Sep	12	(Fri)	05:14	06:01	85	12:08	81S	18:15	274	19:01
2025	Sep	13	(Sat)	05:14	06:01	86	12:08	81S	18:15	274	19:01
2025	Sep	14	(Sun)	05:14	06:01	86	12:07	80S	18:14	274	19:00
2025	Sep	15	(Mon)	05:14	06:01	87	12:07	80S	18:13	273	18:59
2025	Sep	16	(Tue)	05:15	06:01	87	12:07	79S	18:12	273	18:58
2025	Sep	17	(Wed)	05:15	06:01	87	12:06	79S	18:12	272	18:58
2025	Sep	18	(Thu)	05:15	06:01	88	12:06	79S	18:11	272	18:57
2025	Sep	19	(Fri)	05:15	06:01	88	12:06	78S	18:10	272	18:56
2025	Sep	20	(Sat)	05:15	06:01	89	12:05	78S	18:09	271	18:55
2025	Sep	21	(Sun)	05:15	06:01	89	12:05	78S	18:09	271	18:55
2025	Sep	22	(Mon)	05:15	06:01	89	12:04	77S	18:08	270	18:54
2025	Sep	23	(Tue)	05:15	06:01	90	12:04	77S	18:07	270	18:53
2025	Sep	24	(Wed)	05:15	06:01	90	12:04	76S	18:06	270	18:52
2025	Sep	25	(Thu)	05:15	06:01	91	12:03	76S	18:06	269	18:52
2025	Sep	26	(Fri)	05:15	06:01	91	12:03	76S	18:05	269	18:51
2025	Sep	27	(Sat)	05:15	06:01	91	12:03	75S	18:04	268	18:50
2025	Sep	28	(Sun)	05:15	06:01	92	12:02	75S	18:04	268	18:50
2025	Sep	29	(Mon)	05:15	06:01	92	12:02	74S	18:03	268	18:49
2025	Sep	30	(Tue)	05:15	06:01	93	12:02	74S	18:02	267	18:48
2025	Oct	01	(Wed)	05:15	06:01	93	12:01	74S	18:01	267	18:47
2025	Oct	02	(Thu)	05:15	06:01	93	12:01	73S	18:01	266	18:47
2025	Oct	03	(Fri)	05:15	06:01	94	12:01	73S	18:00	266	18:46

2025	Oct	04	(Sat)	05:15	06:01	94	12:00	72S	17:59	266	18:45
2025	Oct	05	(Sun)	05:15	06:01	95	12:00	72S	17:59	265	18:45
2025	Oct	06	(Mon)	05:15	06:02	95	12:00	72S	17:58	265	18:44
2025	Oct	07	(Tue)	05:15	06:02	95	12:00	71S	17:57	264	18:43
2025	Oct	08	(Wed)	05:16	06:02	96	11:59	71S	17:57	264	18:43
2025	Oct	09	(Thu)	05:16	06:02	96	11:59	71S	17:56	264	18:42
2025	Oct	10	(Fri)	05:16	06:02	97	11:59	70S	17:55	263	18:42
2025	Oct	11	(Sat)	05:16	06:02	97	11:58	70S	17:55	263	18:41
2025	Oct	12	(Sun)	05:16	06:02	97	11:58	69S	17:54	262	18:40
2025	Oct	13	(Mon)	05:16	06:02	98	11:58	69S	17:53	262	18:40
2025	Oct	14	(Tue)	05:16	06:02	98	11:58	69S	17:53	262	18:39
2025	Oct	15	(Wed)	05:16	06:03	99	11:57	68S	17:52	261	18:39
2025	Oct	16	(Thu)	05:16	06:03	99	11:57	68S	17:52	261	18:38
2025	Oct	17	(Fri)	05:16	06:03	99	11:57	68S	17:51	260	18:38
2025	Oct	18	(Sat)	05:16	06:03	100	11:57	67S	17:51	260	18:37
2025	Oct	19	(Sun)	05:17	06:03	100	11:57	67S	17:50	260	18:37
2025	Oct	20	(Mon)	05:17	06:03	100	11:57	66S	17:49	259	18:36
2025	Oct	21	(Tue)	05:17	06:04	101	11:56	66S	17:49	259	18:36
2025	Oct	22	(Wed)	05:17	06:04	101	11:56	66S	17:48	259	18:35
2025	Oct	23	(Thu)	05:17	06:04	102	11:56	65S	17:48	258	18:35
2025	Oct	24	(Fri)	05:17	06:04	102	11:56	65S	17:47	258	18:34
2025	Oct	25	(Sat)	05:18	06:04	102	11:56	65S	17:47	258	18:34
2025	Oct	26	(Sun)	05:18	06:05	103	11:56	64S	17:47	257	18:33
2025	Oct	27	(Mon)	05:18	06:05	103	11:56	64S	17:46	257	18:33
2025	Oct	28	(Tue)	05:18	06:05	103	11:56	64S	17:46	257	18:33
2025	Oct	29	(Wed)	05:18	06:05	104	11:55	63S	17:45	256	18:32
2025	Oct	30	(Thu)	05:19	06:06	104	11:55	63S	17:45	256	18:32
2025	Oct	31	(Fri)	05:19	06:06	104	11:55	63S	17:45	256	18:32
2025	Nov	01	(Sat)	05:19	06:06	105	11:55	62S	17:44	255	18:31
2025	Nov	02	(Sun)	05:19	06:07	105	11:55	62S	17:44	255	18:31
2025	Nov	03	(Mon)	05:19	06:07	105	11:55	62S	17:44	255	18:31
2025	Nov	04	(Tue)	05:20	06:07	106	11:55	61S	17:43	254	18:31
2025	Nov	05	(Wed)	05:20	06:08	106	11:55	61S	17:43	254	18:30
2025	Nov	06	(Thu)	05:20	06:08	106	11:55	61S	17:43	254	18:30
2025	Nov	07	(Fri)	05:21	06:08	107	11:55	61S	17:42	253	18:30
2025	Nov	08	(Sat)	05:21	06:09	107	11:55	60S	17:42	253	18:30
2025	Nov	09	(Sun)	05:21	06:09	107	11:56	60S	17:42	253	18:30
2025	Nov	10	(Mon)	05:21	06:09	107	11:56	60S	17:42	252	18:30
2025	Nov	11	(Tue)	05:22	06:10	108	11:56	59S	17:42	252	18:30
2025	Nov	12	(Wed)	05:22	06:10	108	11:56	59S	17:41	252	18:29
2025	Nov	13	(Thu)	05:22	06:11	108	11:56	59S	17:41	252	18:29
2025	Nov	14	(Fri)	05:23	06:11	109	11:56	59S	17:41	251	18:29
2025	Nov	15	(Sat)	05:23	06:11	109	11:56	58S	17:41	251	18:29
2025	Nov	16	(Sun)	05:24	06:12	109	11:56	58S	17:41	251	18:29
2025	Nov	17	(Mon)	05:24	06:12	109	11:57	58S	17:41	251	18:29
2025	Nov	18	(Tue)	05:24	06:13	110	11:57	58S	17:41	250	18:29
2025	Nov	19	(Wed)	05:25	06:13	110	11:57	57S	17:41	250	18:29
2025	Nov	20	(Thu)	05:25	06:14	110	11:57	57S	17:41	250	18:29
2025	Nov	21	(Fri)	05:26	06:14	110	11:58	57S	17:41	250	18:29
2025	Nov	22	(Sat)	05:26	06:15	111	11:58	57S	17:41	249	18:30
2025	Nov	23	(Sun)	05:26	06:15	111	11:58	57S	17:41	249	18:30
2025	Nov	24	(Mon)	05:27	06:16	111	11:58	56S	17:41	249	18:30
2025	Nov	25	(Tue)	05:27	06:16	111	11:59	56S	17:41	249	18:30
2025	Nov	26	(Wed)	05:28	06:17	111	11:59	56S	17:41	249	18:30
2025	Nov	27	(Thu)	05:28	06:17	112	11:59	56S	17:41	248	18:30
2025	Nov	28	(Fri)	05:29	06:18	112	12:00	56S	17:41	248	18:30
2025	Nov	29	(Sat)	05:29	06:18	112	12:00	55S	17:42	248	18:31
2025	Nov	30	(Sun)	05:30	06:19	112	12:00	55S	17:42	248	18:31
2025	Dec	01	(Mon)	05:30	06:19	112	12:01	55S	17:42	248	18:31
2025	Dec	02	(Tue)	05:31	06:20	112	12:01	55S	17:42	248	18:31
2025	Dec	03	(Wed)	05:31	06:21	113	12:01	55S	17:42	247	18:32
2025	Dec	04	(Thu)	05:32	06:21	113	12:02	55S	17:43	247	18:32
2025	Dec	05	(Fri)	05:32	06:22	113	12:02	55S	17:43	247	18:32
2025	Dec	06	(Sat)	05:33	06:22	113	12:03	54S	17:43	247	18:33
2025	Dec	07	(Sun)	05:33	06:23	113	12:03	54S	17:43	247	18:33
2025	Dec	08	(Mon)	05:34	06:23	113	12:04	54S	17:44	247	18:33
2025	Dec	09	(Tue)	05:34	06:24	113	12:04	54S	17:44	247	18:34
2025	Dec	10	(Wed)	05:35	06:24	113	12:04	54S	17:44	247	18:34
2025	Dec	11	(Thu)	05:35	06:25	113	12:05	54S	17:45	246	18:34
2025	Dec	12	(Fri)	05:36	06:26	114	12:05	54S	17:45	246	18:35
2025	Dec	13	(Sat)	05:36	06:26	114	12:06	54S	17:46	246	18:35
2025	Dec	14	(Sun)	05:37	06:27	114	12:06	54S	17:46	246	18:36

2025	Dec	15	(Mon)	05:37	06:27	114	12:07	54S	17:46	246	18:36
2025	Dec	16	(Tue)	05:38	06:28	114	12:07	54S	17:47	246	18:37
2025	Dec	17	(Wed)	05:38	06:28	114	12:08	54S	17:47	246	18:37
2025	Dec	18	(Thu)	05:39	06:29	114	12:08	54S	17:48	246	18:38
2025	Dec	19	(Fri)	05:39	06:29	114	12:09	53S	17:48	246	18:38
2025	Dec	20	(Sat)	05:40	06:30	114	12:09	53S	17:49	246	18:39
2025	Dec	21	(Sun)	05:40	06:30	114	12:10	53S	17:49	246	18:39
2025	Dec	22	(Mon)	05:41	06:31	114	12:10	53S	17:50	246	18:40
2025	Dec	23	(Tue)	05:41	06:31	114	12:11	53S	17:50	246	18:40
2025	Dec	24	(Wed)	05:42	06:32	114	12:11	53S	17:51	246	18:41
2025	Dec	25	(Thu)	05:42	06:32	114	12:12	54S	17:51	246	18:41
2025	Dec	26	(Fri)	05:43	06:33	114	12:12	54S	17:52	246	18:42
2025	Dec	27	(Sat)	05:43	06:33	114	12:13	54S	17:52	246	18:42
2025	Dec	28	(Sun)	05:44	06:34	114	12:13	54S	17:53	246	18:43
2025	Dec	29	(Mon)	05:44	06:34	114	12:14	54S	17:53	246	18:43
2025	Dec	30	(Tue)	05:45	06:34	114	12:14	54S	17:54	246	18:44
2025	Dec	31	(Wed)	05:45	06:35	114	12:15	54S	17:55	246	18:44

Sun

Sakaeo

Location: E102°04'37.1", N13°48'10.8", 0m
(Longitude referred to Greenwich meridian)

Time Zone: 7h 00m east of Greenwich

Date (Zone)				Begin Civil Twilight	Rise	Az.	Transit Alt.	Set	Az.	End Civil Twilight
				h m	h m	°	h m °	h m °		h m
2025	Jan	01	(Wed)	06:12	06:35	114	12:15 54S	17:55	247	18:18
2025	Jan	02	(Thu)	06:13	06:36	113	12:16 54S	17:56	247	18:19
2025	Jan	03	(Fri)	06:13	06:36	113	12:16 54S	17:56	247	18:19
2025	Jan	04	(Sat)	06:13	06:36	113	12:17 54S	17:57	247	18:20
2025	Jan	05	(Sun)	06:14	06:37	113	12:17 54S	17:58	247	18:21
2025	Jan	06	(Mon)	06:14	06:37	113	12:18 54S	17:58	247	18:21
2025	Jan	07	(Tue)	06:14	06:37	113	12:18 55S	17:59	247	18:22
2025	Jan	08	(Wed)	06:15	06:38	113	12:18 55S	17:59	247	18:22
2025	Jan	09	(Thu)	06:15	06:38	113	12:19 55S	18:00	247	18:23
2025	Jan	10	(Fri)	06:15	06:38	112	12:19 55S	18:00	248	18:23
2025	Jan	11	(Sat)	06:15	06:38	112	12:20 55S	18:01	248	18:24
2025	Jan	12	(Sun)	06:16	06:39	112	12:20 55S	18:02	248	18:24
2025	Jan	13	(Mon)	06:16	06:39	112	12:20 55S	18:02	248	18:25
2025	Jan	14	(Tue)	06:16	06:39	112	12:21 56S	18:03	248	18:25
2025	Jan	15	(Wed)	06:16	06:39	112	12:21 56S	18:03	249	18:26
2025	Jan	16	(Thu)	06:16	06:39	111	12:21 56S	18:04	249	18:26
2025	Jan	17	(Fri)	06:17	06:39	111	12:22 56S	18:04	249	18:27
2025	Jan	18	(Sat)	06:17	06:39	111	12:22 56S	18:05	249	18:27
2025	Jan	19	(Sun)	06:17	06:40	111	12:22 57S	18:05	249	18:28
2025	Jan	20	(Mon)	06:17	06:40	111	12:23 57S	18:06	250	18:28
2025	Jan	21	(Tue)	06:17	06:40	110	12:23 57S	18:06	250	18:29
2025	Jan	22	(Wed)	06:17	06:40	110	12:23 57S	18:07	250	18:29
2025	Jan	23	(Thu)	06:17	06:40	110	12:24 58S	18:07	250	18:30
2025	Jan	24	(Fri)	06:17	06:40	110	12:24 58S	18:08	251	18:30
2025	Jan	25	(Sat)	06:17	06:40	109	12:24 58S	18:08	251	18:31
2025	Jan	26	(Sun)	06:17	06:40	109	12:24 58S	18:09	251	18:31
2025	Jan	27	(Mon)	06:17	06:40	109	12:24 59S	18:09	251	18:32
2025	Jan	28	(Tue)	06:17	06:39	109	12:25 59S	18:10	252	18:32
2025	Jan	29	(Wed)	06:17	06:39	108	12:25 59S	18:10	252	18:33
2025	Jan	30	(Thu)	06:17	06:39	108	12:25 59S	18:11	252	18:33
2025	Jan	31	(Fri)	06:17	06:39	108	12:25 60S	18:11	252	18:33
2025	Feb	01	(Sat)	06:17	06:39	107	12:25 60S	18:12	253	18:34
2025	Feb	02	(Sun)	06:17	06:39	107	12:25 60S	18:12	253	18:34
2025	Feb	03	(Mon)	06:16	06:39	107	12:25 60S	18:13	253	18:35
2025	Feb	04	(Tue)	06:16	06:38	107	12:26 61S	18:13	254	18:35
2025	Feb	05	(Wed)	06:16	06:38	106	12:26 61S	18:13	254	18:35
2025	Feb	06	(Thu)	06:16	06:38	106	12:26 61S	18:14	254	18:36
2025	Feb	07	(Fri)	06:16	06:38	106	12:26 62S	18:14	255	18:36
2025	Feb	08	(Sat)	06:15	06:37	105	12:26 62S	18:14	255	18:36
2025	Feb	09	(Sun)	06:15	06:37	105	12:26 62S	18:15	255	18:37
2025	Feb	10	(Mon)	06:15	06:37	105	12:26 63S	18:15	256	18:37
2025	Feb	11	(Tue)	06:15	06:36	104	12:26 63S	18:16	256	18:37

2025	Feb	12	(Wed)	06:14	06:36	104	12:26	63S	18:16	256	18:38
2025	Feb	13	(Thu)	06:14	06:36	104	12:26	64S	18:16	257	18:38
2025	Feb	14	(Fri)	06:14	06:35	103	12:26	64S	18:16	257	18:38
2025	Feb	15	(Sat)	06:13	06:35	103	12:26	64S	18:17	257	18:39
2025	Feb	16	(Sun)	06:13	06:35	102	12:26	65S	18:17	258	18:39
2025	Feb	17	(Mon)	06:12	06:34	102	12:26	65S	18:17	258	18:39
2025	Feb	18	(Tue)	06:12	06:34	102	12:26	65S	18:18	258	18:39
2025	Feb	19	(Wed)	06:12	06:33	101	12:25	66S	18:18	259	18:40
2025	Feb	20	(Thu)	06:11	06:33	101	12:25	66S	18:18	259	18:40
2025	Feb	21	(Fri)	06:11	06:32	101	12:25	66S	18:18	260	18:40
2025	Feb	22	(Sat)	06:10	06:32	100	12:25	67S	18:19	260	18:40
2025	Feb	23	(Sun)	06:10	06:31	100	12:25	67S	18:19	260	18:40
2025	Feb	24	(Mon)	06:09	06:31	100	12:25	68S	18:19	261	18:41
2025	Feb	25	(Tue)	06:09	06:30	99	12:25	68S	18:19	261	18:41
2025	Feb	26	(Wed)	06:08	06:30	99	12:25	68S	18:20	261	18:41
2025	Feb	27	(Thu)	06:08	06:29	98	12:24	69S	18:20	262	18:41
2025	Feb	28	(Fri)	06:07	06:29	98	12:24	69S	18:20	262	18:41
2025	Mar	01	(Sat)	06:07	06:28	98	12:24	69S	18:20	263	18:42
2025	Mar	02	(Sun)	06:06	06:28	97	12:24	70S	18:20	263	18:42
2025	Mar	03	(Mon)	06:06	06:27	97	12:24	70S	18:20	263	18:42
2025	Mar	04	(Tue)	06:05	06:26	96	12:23	71S	18:21	264	18:42
2025	Mar	05	(Wed)	06:04	06:26	96	12:23	71S	18:21	264	18:42
2025	Mar	06	(Thu)	06:04	06:25	96	12:23	71S	18:21	265	18:42
2025	Mar	07	(Fri)	06:03	06:25	95	12:23	72S	18:21	265	18:42
2025	Mar	08	(Sat)	06:03	06:24	95	12:22	72S	18:21	265	18:43
2025	Mar	09	(Sun)	06:02	06:23	94	12:22	73S	18:21	266	18:43
2025	Mar	10	(Mon)	06:01	06:23	94	12:22	73S	18:21	266	18:43
2025	Mar	11	(Tue)	06:01	06:22	94	12:22	73S	18:22	267	18:43
2025	Mar	12	(Wed)	06:00	06:21	93	12:21	74S	18:22	267	18:43
2025	Mar	13	(Thu)	05:59	06:21	93	12:21	74S	18:22	267	18:43
2025	Mar	14	(Fri)	05:59	06:20	92	12:21	74S	18:22	268	18:43
2025	Mar	15	(Sat)	05:58	06:19	92	12:21	75S	18:22	268	18:43
2025	Mar	16	(Sun)	05:57	06:19	92	12:20	75S	18:22	269	18:43
2025	Mar	17	(Mon)	05:57	06:18	91	12:20	76S	18:22	269	18:44
2025	Mar	18	(Tue)	05:56	06:17	91	12:20	76S	18:22	269	18:44
2025	Mar	19	(Wed)	05:55	06:17	90	12:19	76S	18:22	270	18:44
2025	Mar	20	(Thu)	05:55	06:16	90	12:19	77S	18:23	270	18:44
2025	Mar	21	(Fri)	05:54	06:15	90	12:19	77S	18:23	271	18:44
2025	Mar	22	(Sat)	05:53	06:15	89	12:19	78S	18:23	271	18:44
2025	Mar	23	(Sun)	05:53	06:14	89	12:18	78S	18:23	271	18:44
2025	Mar	24	(Mon)	05:52	06:13	88	12:18	78S	18:23	272	18:44
2025	Mar	25	(Tue)	05:51	06:13	88	12:18	79S	18:23	272	18:44
2025	Mar	26	(Wed)	05:51	06:12	88	12:17	79S	18:23	273	18:44
2025	Mar	27	(Thu)	05:50	06:11	87	12:17	80S	18:23	273	18:44
2025	Mar	28	(Fri)	05:49	06:10	87	12:17	80S	18:23	273	18:45
2025	Mar	29	(Sat)	05:48	06:10	86	12:16	80S	18:23	274	18:45
2025	Mar	30	(Sun)	05:48	06:09	86	12:16	81S	18:23	274	18:45
2025	Mar	31	(Mon)	05:47	06:08	86	12:16	81S	18:23	275	18:45
2025	Apr	01	(Tue)	05:46	06:08	85	12:16	82S	18:24	275	18:45
2025	Apr	02	(Wed)	05:46	06:07	85	12:15	82S	18:24	275	18:45
2025	Apr	03	(Thu)	05:45	06:06	84	12:15	82S	18:24	276	18:45
2025	Apr	04	(Fri)	05:44	06:06	84	12:15	83S	18:24	276	18:45
2025	Apr	05	(Sat)	05:44	06:05	84	12:14	83S	18:24	277	18:45
2025	Apr	06	(Sun)	05:43	06:04	83	12:14	83S	18:24	277	18:46
2025	Apr	07	(Mon)	05:42	06:04	83	12:14	84S	18:24	277	18:46
2025	Apr	08	(Tue)	05:42	06:03	82	12:14	84S	18:24	278	18:46
2025	Apr	09	(Wed)	05:41	06:02	82	12:13	85S	18:24	278	18:46
2025	Apr	10	(Thu)	05:40	06:02	82	12:13	85S	18:24	279	18:46
2025	Apr	11	(Fri)	05:40	06:01	81	12:13	85S	18:25	279	18:46
2025	Apr	12	(Sat)	05:39	06:00	81	12:12	86S	18:25	279	18:46
2025	Apr	13	(Sun)	05:38	06:00	80	12:12	86S	18:25	280	18:46
2025	Apr	14	(Mon)	05:38	05:59	80	12:12	86S	18:25	280	18:47
2025	Apr	15	(Tue)	05:37	05:59	80	12:12	87S	18:25	280	18:47
2025	Apr	16	(Wed)	05:36	05:58	79	12:11	87S	18:25	281	18:47
2025	Apr	17	(Thu)	05:36	05:57	79	12:11	87S	18:25	281	18:47
2025	Apr	18	(Fri)	05:35	05:57	79	12:11	88S	18:25	282	18:47
2025	Apr	19	(Sat)	05:34	05:56	78	12:11	88S	18:26	282	18:47
2025	Apr	20	(Sun)	05:34	05:56	78	12:11	89S	18:26	282	18:48
2025	Apr	21	(Mon)	05:33	05:55	78	12:10	89S	18:26	283	18:48
2025	Apr	22	(Tue)	05:33	05:55	77	12:10	89S	18:26	283	18:48
2025	Apr	23	(Wed)	05:32	05:54	77	12:10	90S	18:26	283	18:48
2025	Apr	24	(Thu)	05:32	05:54	77	12:10	90S	18:26	284	18:48

2025	Apr	25	(Fri)	05:31	05:53	76	12:10	90S	18:26	284	18:49
2025	Apr	26	(Sat)	05:30	05:52	76	12:09	91S	18:27	284	18:49
2025	Apr	27	(Sun)	05:30	05:52	76	12:09	91N	18:27	285	18:49
2025	Apr	28	(Mon)	05:29	05:51	75	12:09	90N	18:27	285	18:49
2025	Apr	29	(Tue)	05:29	05:51	75	12:09	90N	18:27	285	18:49
2025	Apr	30	(Wed)	05:28	05:51	75	12:09	90N	18:27	286	18:50
2025	May	01	(Thu)	05:28	05:50	74	12:09	89N	18:28	286	18:50
2025	May	02	(Fri)	05:27	05:50	74	12:09	89N	18:28	286	18:50
2025	May	03	(Sat)	05:27	05:49	74	12:09	89N	18:28	287	18:50
2025	May	04	(Sun)	05:27	05:49	73	12:08	88N	18:28	287	18:51
2025	May	05	(Mon)	05:26	05:48	73	12:08	88N	18:29	287	18:51
2025	May	06	(Tue)	05:26	05:48	73	12:08	88N	18:29	287	18:51
2025	May	07	(Wed)	05:25	05:48	72	12:08	88N	18:29	288	18:51
2025	May	08	(Thu)	05:25	05:47	72	12:08	87N	18:29	288	18:52
2025	May	09	(Fri)	05:24	05:47	72	12:08	87N	18:29	288	18:52
2025	May	10	(Sat)	05:24	05:47	72	12:08	87N	18:30	289	18:52
2025	May	11	(Sun)	05:24	05:46	71	12:08	87N	18:30	289	18:53
2025	May	12	(Mon)	05:23	05:46	71	12:08	86N	18:30	289	18:53
2025	May	13	(Tue)	05:23	05:46	71	12:08	86N	18:31	289	18:53
2025	May	14	(Wed)	05:23	05:45	71	12:08	86N	18:31	290	18:53
2025	May	15	(Thu)	05:22	05:45	70	12:08	86N	18:31	290	18:54
2025	May	16	(Fri)	05:22	05:45	70	12:08	85N	18:31	290	18:54
2025	May	17	(Sat)	05:22	05:45	70	12:08	85N	18:32	290	18:54
2025	May	18	(Sun)	05:22	05:44	70	12:08	85N	18:32	290	18:55
2025	May	19	(Mon)	05:21	05:44	69	12:08	85N	18:32	291	18:55
2025	May	20	(Tue)	05:21	05:44	69	12:08	84N	18:32	291	18:55
2025	May	21	(Wed)	05:21	05:44	69	12:08	84N	18:33	291	18:56
2025	May	22	(Thu)	05:21	05:44	69	12:08	84N	18:33	291	18:56
2025	May	23	(Fri)	05:21	05:44	69	12:08	84N	18:33	292	18:56
2025	May	24	(Sat)	05:20	05:43	68	12:09	84N	18:34	292	18:57
2025	May	25	(Sun)	05:20	05:43	68	12:09	84N	18:34	292	18:57
2025	May	26	(Mon)	05:20	05:43	68	12:09	83N	18:34	292	18:57
2025	May	27	(Tue)	05:20	05:43	68	12:09	83N	18:35	292	18:58
2025	May	28	(Wed)	05:20	05:43	68	12:09	83N	18:35	292	18:58
2025	May	29	(Thu)	05:20	05:43	67	12:09	83N	18:35	293	18:58
2025	May	30	(Fri)	05:20	05:43	67	12:09	83N	18:36	293	18:59
2025	May	31	(Sat)	05:20	05:43	67	12:09	83N	18:36	293	18:59
2025	Jun	01	(Sun)	05:20	05:43	67	12:10	82N	18:36	293	18:59
2025	Jun	02	(Mon)	05:20	05:43	67	12:10	82N	18:37	293	19:00
2025	Jun	03	(Tue)	05:20	05:43	67	12:10	82N	18:37	293	19:00
2025	Jun	04	(Wed)	05:20	05:43	67	12:10	82N	18:37	293	19:00
2025	Jun	05	(Thu)	05:20	05:43	67	12:10	82N	18:37	294	19:01
2025	Jun	06	(Fri)	05:20	05:43	66	12:10	82N	18:38	294	19:01
2025	Jun	07	(Sat)	05:20	05:43	66	12:11	82N	18:38	294	19:01
2025	Jun	08	(Sun)	05:20	05:43	66	12:11	82N	18:38	294	19:02
2025	Jun	09	(Mon)	05:20	05:43	66	12:11	82N	18:39	294	19:02
2025	Jun	10	(Tue)	05:20	05:43	66	12:11	81N	18:39	294	19:02
2025	Jun	11	(Wed)	05:20	05:44	66	12:11	81N	18:39	294	19:03
2025	Jun	12	(Thu)	05:20	05:44	66	12:12	81N	18:40	294	19:03
2025	Jun	13	(Fri)	05:20	05:44	66	12:12	81N	18:40	294	19:03
2025	Jun	14	(Sat)	05:20	05:44	66	12:12	81N	18:40	294	19:04
2025	Jun	15	(Sun)	05:21	05:44	66	12:12	81N	18:40	294	19:04
2025	Jun	16	(Mon)	05:21	05:44	66	12:12	81N	18:41	294	19:04
2025	Jun	17	(Tue)	05:21	05:44	66	12:13	81N	18:41	294	19:04
2025	Jun	18	(Wed)	05:21	05:45	66	12:13	81N	18:41	294	19:05
2025	Jun	19	(Thu)	05:21	05:45	66	12:13	81N	18:41	294	19:05
2025	Jun	20	(Fri)	05:21	05:45	66	12:13	81N	18:42	294	19:05
2025	Jun	21	(Sat)	05:22	05:45	66	12:13	81N	18:42	294	19:05
2025	Jun	22	(Sun)	05:22	05:45	66	12:14	81N	18:42	294	19:05
2025	Jun	23	(Mon)	05:22	05:46	66	12:14	81N	18:42	294	19:06
2025	Jun	24	(Tue)	05:22	05:46	66	12:14	81N	18:42	294	19:06
2025	Jun	25	(Wed)	05:23	05:46	66	12:14	81N	18:43	294	19:06
2025	Jun	26	(Thu)	05:23	05:46	66	12:15	81N	18:43	294	19:06
2025	Jun	27	(Fri)	05:23	05:47	66	12:15	81N	18:43	294	19:06
2025	Jun	28	(Sat)	05:23	05:47	66	12:15	81N	18:43	294	19:07
2025	Jun	29	(Sun)	05:24	05:47	66	12:15	81N	18:43	294	19:07
2025	Jun	30	(Mon)	05:24	05:47	66	12:15	81N	18:43	294	19:07
2025	Jul	01	(Tue)	05:24	05:48	66	12:16	81N	18:43	294	19:07
2025	Jul	02	(Wed)	05:25	05:48	66	12:16	81N	18:44	294	19:07
2025	Jul	03	(Thu)	05:25	05:48	66	12:16	82N	18:44	294	19:07
2025	Jul	04	(Fri)	05:25	05:49	66	12:16	82N	18:44	294	19:07
2025	Jul	05	(Sat)	05:25	05:49	66	12:16	82N	18:44	294	19:07

2025	Jul	06	(Sun)	05:26	05:49	66	12:16	82N	18:44	294	19:07
2025	Jul	07	(Mon)	05:26	05:49	66	12:17	82N	18:44	293	19:07
2025	Jul	08	(Tue)	05:26	05:50	67	12:17	82N	18:44	293	19:07
2025	Jul	09	(Wed)	05:27	05:50	67	12:17	82N	18:44	293	19:07
2025	Jul	10	(Thu)	05:27	05:50	67	12:17	82N	18:44	293	19:07
2025	Jul	11	(Fri)	05:27	05:51	67	12:17	82N	18:44	293	19:07
2025	Jul	12	(Sat)	05:28	05:51	67	12:17	83N	18:44	293	19:07
2025	Jul	13	(Sun)	05:28	05:51	67	12:17	83N	18:44	293	19:07
2025	Jul	14	(Mon)	05:28	05:51	67	12:18	83N	18:44	292	19:07
2025	Jul	15	(Tue)	05:29	05:52	68	12:18	83N	18:44	292	19:07
2025	Jul	16	(Wed)	05:29	05:52	68	12:18	83N	18:43	292	19:07
2025	Jul	17	(Thu)	05:29	05:52	68	12:18	83N	18:43	292	19:06
2025	Jul	18	(Fri)	05:30	05:53	68	12:18	84N	18:43	292	19:06
2025	Jul	19	(Sat)	05:30	05:53	68	12:18	84N	18:43	292	19:06
2025	Jul	20	(Sun)	05:30	05:53	68	12:18	84N	18:43	291	19:06
2025	Jul	21	(Mon)	05:30	05:53	69	12:18	84N	18:43	291	19:06
2025	Jul	22	(Tue)	05:31	05:54	69	12:18	84N	18:43	291	19:05
2025	Jul	23	(Wed)	05:31	05:54	69	12:18	84N	18:42	291	19:05
2025	Jul	24	(Thu)	05:31	05:54	69	12:18	85N	18:42	291	19:05
2025	Jul	25	(Fri)	05:32	05:55	70	12:18	85N	18:42	290	19:05
2025	Jul	26	(Sat)	05:32	05:55	70	12:18	85N	18:42	290	19:04
2025	Jul	27	(Sun)	05:32	05:55	70	12:18	85N	18:41	290	19:04
2025	Jul	28	(Mon)	05:33	05:55	70	12:18	86N	18:41	290	19:04
2025	Jul	29	(Tue)	05:33	05:55	70	12:18	86N	18:41	289	19:03
2025	Jul	30	(Wed)	05:33	05:56	71	12:18	86N	18:40	289	19:03
2025	Jul	31	(Thu)	05:33	05:56	71	12:18	86N	18:40	289	19:03
2025	Aug	01	(Fri)	05:34	05:56	71	12:18	87N	18:40	289	19:02
2025	Aug	02	(Sat)	05:34	05:56	71	12:18	87N	18:39	288	19:02
2025	Aug	03	(Sun)	05:34	05:57	72	12:18	87N	18:39	288	19:02
2025	Aug	04	(Mon)	05:34	05:57	72	12:18	87N	18:39	288	19:01
2025	Aug	05	(Tue)	05:35	05:57	72	12:18	88N	18:38	288	19:01
2025	Aug	06	(Wed)	05:35	05:57	73	12:18	88N	18:38	287	19:00
2025	Aug	07	(Thu)	05:35	05:57	73	12:18	88N	18:37	287	19:00
2025	Aug	08	(Fri)	05:35	05:58	73	12:17	88N	18:37	287	18:59
2025	Aug	09	(Sat)	05:35	05:58	73	12:17	89N	18:37	286	18:59
2025	Aug	10	(Sun)	05:36	05:58	74	12:17	89N	18:36	286	18:58
2025	Aug	11	(Mon)	05:36	05:58	74	12:17	89N	18:36	286	18:58
2025	Aug	12	(Tue)	05:36	05:58	74	12:17	90N	18:35	285	18:57
2025	Aug	13	(Wed)	05:36	05:58	75	12:17	90N	18:35	285	18:57
2025	Aug	14	(Thu)	05:36	05:59	75	12:16	90N	18:34	285	18:56
2025	Aug	15	(Fri)	05:37	05:59	75	12:16	91N	18:34	285	18:56
2025	Aug	16	(Sat)	05:37	05:59	76	12:16	91S	18:33	284	18:55
2025	Aug	17	(Sun)	05:37	05:59	76	12:16	90S	18:33	284	18:55
2025	Aug	18	(Mon)	05:37	05:59	76	12:16	90S	18:32	284	18:54
2025	Aug	19	(Tue)	05:37	05:59	77	12:15	90S	18:31	283	18:53
2025	Aug	20	(Wed)	05:37	05:59	77	12:15	89S	18:31	283	18:53
2025	Aug	21	(Thu)	05:37	05:59	77	12:15	89S	18:30	283	18:52
2025	Aug	22	(Fri)	05:38	05:59	78	12:15	89S	18:30	282	18:51
2025	Aug	23	(Sat)	05:38	06:00	78	12:14	88S	18:29	282	18:51
2025	Aug	24	(Sun)	05:38	06:00	78	12:14	88S	18:28	281	18:50
2025	Aug	25	(Mon)	05:38	06:00	79	12:14	88S	18:28	281	18:49
2025	Aug	26	(Tue)	05:38	06:00	79	12:14	87S	18:27	281	18:49
2025	Aug	27	(Wed)	05:38	06:00	79	12:13	87S	18:26	280	18:48
2025	Aug	28	(Thu)	05:38	06:00	80	12:13	87S	18:26	280	18:47
2025	Aug	29	(Fri)	05:38	06:00	80	12:13	86S	18:25	280	18:47
2025	Aug	30	(Sat)	05:38	06:00	81	12:12	86S	18:24	279	18:46
2025	Aug	31	(Sun)	05:39	06:00	81	12:12	85S	18:24	279	18:45
2025	Sep	01	(Mon)	05:39	06:00	81	12:12	85S	18:23	279	18:45
2025	Sep	02	(Tue)	05:39	06:00	82	12:11	85S	18:22	278	18:44
2025	Sep	03	(Wed)	05:39	06:00	82	12:11	84S	18:22	278	18:43
2025	Sep	04	(Thu)	05:39	06:00	82	12:11	84S	18:21	277	18:43
2025	Sep	05	(Fri)	05:39	06:00	83	12:10	84S	18:20	277	18:42
2025	Sep	06	(Sat)	05:39	06:00	83	12:10	83S	18:20	277	18:41
2025	Sep	07	(Sun)	05:39	06:00	84	12:10	83S	18:19	276	18:40
2025	Sep	08	(Mon)	05:39	06:00	84	12:09	82S	18:18	276	18:40
2025	Sep	09	(Tue)	05:39	06:00	84	12:09	82S	18:17	275	18:39
2025	Sep	10	(Wed)	05:39	06:01	85	12:09	82S	18:17	275	18:38
2025	Sep	11	(Thu)	05:39	06:01	85	12:08	81S	18:16	275	18:37
2025	Sep	12	(Fri)	05:39	06:01	85	12:08	81S	18:15	274	18:37
2025	Sep	13	(Sat)	05:39	06:01	86	12:08	81S	18:15	274	18:36
2025	Sep	14	(Sun)	05:39	06:01	86	12:07	80S	18:14	274	18:35
2025	Sep	15	(Mon)	05:39	06:01	87	12:07	80S	18:13	273	18:34

2025	Sep	16	(Tue)	05:39	06:01	87	12:07	79S	18:12	273	18:34
2025	Sep	17	(Wed)	05:39	06:01	87	12:06	79S	18:12	272	18:33
2025	Sep	18	(Thu)	05:39	06:01	88	12:06	79S	18:11	272	18:32
2025	Sep	19	(Fri)	05:39	06:01	88	12:06	78S	18:10	272	18:31
2025	Sep	20	(Sat)	05:39	06:01	89	12:05	78S	18:09	271	18:31
2025	Sep	21	(Sun)	05:39	06:01	89	12:05	78S	18:09	271	18:30
2025	Sep	22	(Mon)	05:40	06:01	89	12:04	77S	18:08	270	18:29
2025	Sep	23	(Tue)	05:40	06:01	90	12:04	77S	18:07	270	18:28
2025	Sep	24	(Wed)	05:40	06:01	90	12:04	76S	18:06	270	18:28
2025	Sep	25	(Thu)	05:40	06:01	91	12:03	76S	18:06	269	18:27
2025	Sep	26	(Fri)	05:40	06:01	91	12:03	76S	18:05	269	18:26
2025	Sep	27	(Sat)	05:40	06:01	91	12:03	75S	18:04	268	18:26
2025	Sep	28	(Sun)	05:40	06:01	92	12:02	75S	18:04	268	18:25
2025	Sep	29	(Mon)	05:40	06:01	92	12:02	74S	18:03	268	18:24
2025	Sep	30	(Tue)	05:40	06:01	93	12:02	74S	18:02	267	18:23
2025	Oct	01	(Wed)	05:40	06:01	93	12:01	74S	18:01	267	18:23
2025	Oct	02	(Thu)	05:40	06:01	93	12:01	73S	18:01	266	18:22
2025	Oct	03	(Fri)	05:40	06:01	94	12:01	73S	18:00	266	18:21
2025	Oct	04	(Sat)	05:40	06:01	94	12:00	72S	17:59	266	18:21
2025	Oct	05	(Sun)	05:40	06:01	95	12:00	72S	17:59	265	18:20
2025	Oct	06	(Mon)	05:40	06:02	95	12:00	72S	17:58	265	18:19
2025	Oct	07	(Tue)	05:40	06:02	95	12:00	71S	17:57	264	18:19
2025	Oct	08	(Wed)	05:40	06:02	96	11:59	71S	17:57	264	18:18
2025	Oct	09	(Thu)	05:40	06:02	96	11:59	71S	17:56	264	18:17
2025	Oct	10	(Fri)	05:40	06:02	97	11:59	70S	17:55	263	18:17
2025	Oct	11	(Sat)	05:41	06:02	97	11:58	70S	17:55	263	18:16
2025	Oct	12	(Sun)	05:41	06:02	97	11:58	69S	17:54	262	18:16
2025	Oct	13	(Mon)	05:41	06:02	98	11:58	69S	17:53	262	18:15
2025	Oct	14	(Tue)	05:41	06:02	98	11:58	69S	17:53	262	18:14
2025	Oct	15	(Wed)	05:41	06:03	99	11:57	68S	17:52	261	18:14
2025	Oct	16	(Thu)	05:41	06:03	99	11:57	68S	17:52	261	18:13
2025	Oct	17	(Fri)	05:41	06:03	99	11:57	68S	17:51	260	18:13
2025	Oct	18	(Sat)	05:41	06:03	100	11:57	67S	17:51	260	18:12
2025	Oct	19	(Sun)	05:42	06:03	100	11:57	67S	17:50	260	18:12
2025	Oct	20	(Mon)	05:42	06:03	100	11:57	66S	17:49	259	18:11
2025	Oct	21	(Tue)	05:42	06:04	101	11:56	66S	17:49	259	18:11
2025	Oct	22	(Wed)	05:42	06:04	101	11:56	66S	17:48	259	18:10
2025	Oct	23	(Thu)	05:42	06:04	102	11:56	65S	17:48	258	18:10
2025	Oct	24	(Fri)	05:42	06:04	102	11:56	65S	17:47	258	18:09
2025	Oct	25	(Sat)	05:43	06:04	102	11:56	65S	17:47	258	18:09
2025	Oct	26	(Sun)	05:43	06:05	103	11:56	64S	17:47	257	18:08
2025	Oct	27	(Mon)	05:43	06:05	103	11:56	64S	17:46	257	18:08
2025	Oct	28	(Tue)	05:43	06:05	103	11:56	64S	17:46	257	18:08
2025	Oct	29	(Wed)	05:44	06:05	104	11:55	63S	17:45	256	18:07
2025	Oct	30	(Thu)	05:44	06:06	104	11:55	63S	17:45	256	18:07
2025	Oct	31	(Fri)	05:44	06:06	104	11:55	63S	17:45	256	18:06
2025	Nov	01	(Sat)	05:44	06:06	105	11:55	62S	17:44	255	18:06
2025	Nov	02	(Sun)	05:45	06:07	105	11:55	62S	17:44	255	18:06
2025	Nov	03	(Mon)	05:45	06:07	105	11:55	62S	17:44	255	18:06
2025	Nov	04	(Tue)	05:45	06:07	106	11:55	61S	17:43	254	18:05
2025	Nov	05	(Wed)	05:45	06:08	106	11:55	61S	17:43	254	18:05
2025	Nov	06	(Thu)	05:46	06:08	106	11:55	61S	17:43	254	18:05
2025	Nov	07	(Fri)	05:46	06:08	107	11:55	61S	17:42	253	18:05
2025	Nov	08	(Sat)	05:46	06:09	107	11:55	60S	17:42	253	18:04
2025	Nov	09	(Sun)	05:47	06:09	107	11:56	60S	17:42	253	18:04
2025	Nov	10	(Mon)	05:47	06:09	107	11:56	60S	17:42	252	18:04
2025	Nov	11	(Tue)	05:47	06:10	108	11:56	59S	17:42	252	18:04
2025	Nov	12	(Wed)	05:48	06:10	108	11:56	59S	17:41	252	18:04
2025	Nov	13	(Thu)	05:48	06:11	108	11:56	59S	17:41	252	18:04
2025	Nov	14	(Fri)	05:49	06:11	109	11:56	59S	17:41	251	18:03
2025	Nov	15	(Sat)	05:49	06:11	109	11:56	58S	17:41	251	18:03
2025	Nov	16	(Sun)	05:49	06:12	109	11:56	58S	17:41	251	18:03
2025	Nov	17	(Mon)	05:50	06:12	109	11:57	58S	17:41	251	18:03
2025	Nov	18	(Tue)	05:50	06:13	110	11:57	58S	17:41	250	18:03
2025	Nov	19	(Wed)	05:51	06:13	110	11:57	57S	17:41	250	18:03
2025	Nov	20	(Thu)	05:51	06:14	110	11:57	57S	17:41	250	18:03
2025	Nov	21	(Fri)	05:52	06:14	110	11:58	57S	17:41	250	18:03
2025	Nov	22	(Sat)	05:52	06:15	111	11:58	57S	17:41	249	18:03
2025	Nov	23	(Sun)	05:53	06:15	111	11:58	57S	17:41	249	18:03
2025	Nov	24	(Mon)	05:53	06:16	111	11:58	56S	17:41	249	18:04
2025	Nov	25	(Tue)	05:54	06:16	111	11:59	56S	17:41	249	18:04
2025	Nov	26	(Wed)	05:54	06:17	111	11:59	56S	17:41	249	18:04

2025	Nov	27	(Thu)	05:55	06:17	112	11:59	56S	17:41	248	18:04
2025	Nov	28	(Fri)	05:55	06:18	112	12:00	56S	17:41	248	18:04
2025	Nov	29	(Sat)	05:56	06:18	112	12:00	55S	17:42	248	18:04
2025	Nov	30	(Sun)	05:56	06:19	112	12:00	55S	17:42	248	18:05
2025	Dec	01	(Mon)	05:57	06:19	112	12:01	55S	17:42	248	18:05
2025	Dec	02	(Tue)	05:57	06:20	112	12:01	55S	17:42	248	18:05
2025	Dec	03	(Wed)	05:58	06:21	113	12:01	55S	17:42	247	18:05
2025	Dec	04	(Thu)	05:58	06:21	113	12:02	55S	17:43	247	18:06
2025	Dec	05	(Fri)	05:59	06:22	113	12:02	55S	17:43	247	18:06
2025	Dec	06	(Sat)	05:59	06:22	113	12:03	54S	17:43	247	18:06
2025	Dec	07	(Sun)	06:00	06:23	113	12:03	54S	17:43	247	18:06
2025	Dec	08	(Mon)	06:00	06:23	113	12:04	54S	17:44	247	18:07
2025	Dec	09	(Tue)	06:01	06:24	113	12:04	54S	17:44	247	18:07
2025	Dec	10	(Wed)	06:01	06:24	113	12:04	54S	17:44	247	18:07
2025	Dec	11	(Thu)	06:02	06:25	113	12:05	54S	17:45	246	18:08
2025	Dec	12	(Fri)	06:02	06:26	114	12:05	54S	17:45	246	18:08
2025	Dec	13	(Sat)	06:03	06:26	114	12:06	54S	17:46	246	18:09
2025	Dec	14	(Sun)	06:03	06:27	114	12:06	54S	17:46	246	18:09
2025	Dec	15	(Mon)	06:04	06:27	114	12:07	54S	17:46	246	18:10
2025	Dec	16	(Tue)	06:05	06:28	114	12:07	54S	17:47	246	18:10
2025	Dec	17	(Wed)	06:05	06:28	114	12:08	54S	17:47	246	18:10
2025	Dec	18	(Thu)	06:06	06:29	114	12:08	54S	17:48	246	18:11
2025	Dec	19	(Fri)	06:06	06:29	114	12:09	53S	17:48	246	18:11
2025	Dec	20	(Sat)	06:07	06:30	114	12:09	53S	17:49	246	18:12
2025	Dec	21	(Sun)	06:07	06:30	114	12:10	53S	17:49	246	18:12
2025	Dec	22	(Mon)	06:08	06:31	114	12:10	53S	17:50	246	18:13
2025	Dec	23	(Tue)	06:08	06:31	114	12:11	53S	17:50	246	18:13
2025	Dec	24	(Wed)	06:09	06:32	114	12:11	53S	17:51	246	18:14
2025	Dec	25	(Thu)	06:09	06:32	114	12:12	54S	17:51	246	18:14
2025	Dec	26	(Fri)	06:10	06:33	114	12:12	54S	17:52	246	18:15
2025	Dec	27	(Sat)	06:10	06:33	114	12:13	54S	17:52	246	18:15
2025	Dec	28	(Sun)	06:10	06:34	114	12:13	54S	17:53	246	18:16
2025	Dec	29	(Mon)	06:11	06:34	114	12:14	54S	17:53	246	18:17
2025	Dec	30	(Tue)	06:11	06:34	114	12:14	54S	17:54	246	18:17
2025	Dec	31	(Wed)	06:12	06:35	114	12:15	54S	17:55	246	18:18

Moon

Sakaeo

Location: E102°04'37.1", N13°48'10.8", 0m
(Longitude referred to Greenwich meridian)

Time Zone: 7h 00m east of Greenwich

Date (Zone)	Rise	Az.	Transit	Alt.	Set	Az.
	h	m	°	h	m	°
2025 Jan 01 (Wed)	07:44	117	13:29	51S	19:16	245
2025 Jan 02 (Thu)	08:35	113	14:24	55S	20:15	250
2025 Jan 03 (Fri)	09:21	107	15:16	61S	21:13	255
2025 Jan 04 (Sat)	10:04	101	16:05	67S	22:08	262
2025 Jan 05 (Sun)	10:45	94	16:52	74S	23:02	269
2025 Jan 06 (Mon)	11:25	87	17:39	81S	23:56	276
2025 Jan 07 (Tue)	12:06	80	18:27	88S		
2025 Jan 08 (Wed)	12:49	74	19:18	87N	00:52	283
2025 Jan 09 (Thu)	13:36	68	20:12	82N	01:50	289
2025 Jan 10 (Fri)	14:29	64	21:11	78N	02:51	294
2025 Jan 11 (Sat)	15:26	61	22:11	76N	03:55	298
2025 Jan 12 (Sun)	16:26	61	23:13	76N	04:58	299
2025 Jan 13 (Mon)	17:28	62			05:59	299
2025 Jan 14 (Tue)	18:28	65	00:12	78N	06:54	296
2025 Jan 15 (Wed)	19:25	70	01:07	81N	07:43	293
2025 Jan 16 (Thu)	20:18	75	01:58	86N	08:27	288
2025 Jan 17 (Fri)	21:07	81	02:43	90S	09:06	282
2025 Jan 18 (Sat)	21:54	87	03:26	84S	09:42	276
2025 Jan 19 (Sun)	22:39	93	04:06	78S	10:16	270
2025 Jan 20 (Mon)	23:24	99	04:45	72S	10:49	264
2025 Jan 21 (Tue)			05:25	66S	11:23	258
2025 Jan 22 (Wed)	00:10	105	06:06	61S	11:59	253
2025 Jan 23 (Thu)	00:59	110	06:49	56S	12:38	248
2025 Jan 24 (Fri)	01:49	114	07:36	52S	13:21	244
2025 Jan 25 (Sat)	02:43	117	08:27	49S	14:09	242

2025	Jan	26	(Sun)	03:40	119	09:22	48S	15:03	241
2025	Jan	27	(Mon)	04:37	119	10:19	48S	16:01	241
2025	Jan	28	(Tue)	05:33	118	11:16	50S	17:02	243
2025	Jan	29	(Wed)	06:26	115	12:13	53S	18:03	248
2025	Jan	30	(Thu)	07:15	110	13:07	59S	19:02	253
2025	Jan	31	(Fri)	08:00	104	13:58	65S	20:00	260
2025	Feb	01	(Sat)	08:43	97	14:48	72S	20:56	267
2025	Feb	02	(Sun)	09:24	90	15:36	79S	21:51	274
2025	Feb	03	(Mon)	10:05	82	16:25	86S	22:48	281
2025	Feb	04	(Tue)	10:48	76	17:15	89N	23:45	288
2025	Feb	05	(Wed)	11:34	70	18:08	83N		
2025	Feb	06	(Thu)	12:24	65	19:04	79N	00:45	293
2025	Feb	07	(Fri)	13:19	62	20:04	76N	01:47	297
2025	Feb	08	(Sat)	14:17	61	21:04	76N	02:50	299
2025	Feb	09	(Sun)	15:18	61	22:03	77N	03:50	299
2025	Feb	10	(Mon)	16:17	64	22:58	80N	04:46	298
2025	Feb	11	(Tue)	17:14	68	23:50	84N	05:36	294
2025	Feb	12	(Wed)	18:08	73			06:21	290
2025	Feb	13	(Thu)	18:59	78	00:37	89N	07:02	284
2025	Feb	14	(Fri)	19:46	85	01:20	87S	07:39	278
2025	Feb	15	(Sat)	20:32	91	02:01	81S	08:13	272
2025	Feb	16	(Sun)	21:18	97	02:41	75S	08:47	266
2025	Feb	17	(Mon)	22:03	103	03:21	69S	09:21	260
2025	Feb	18	(Tue)	22:51	108	04:01	63S	09:56	255
2025	Feb	19	(Wed)	23:40	112	04:43	58S	10:33	250
2025	Feb	20	(Thu)			05:28	54S	11:14	246
2025	Feb	21	(Fri)	00:32	116	06:16	50S	11:59	243
2025	Feb	22	(Sat)	01:26	119	07:09	48S	12:50	241
2025	Feb	23	(Sun)	02:22	120	08:04	48S	13:45	240
2025	Feb	24	(Mon)	03:18	119	09:00	49S	14:44	242
2025	Feb	25	(Tue)	04:12	117	09:57	51S	15:44	245
2025	Feb	26	(Wed)	05:03	112	10:52	56S	16:45	250
2025	Feb	27	(Thu)	05:50	107	11:45	62S	17:44	256
2025	Feb	28	(Fri)	06:35	100	12:37	68S	18:42	263
2025	Mar	01	(Sat)	07:18	93	13:27	76S	19:39	271
2025	Mar	02	(Sun)	08:00	85	14:17	83S	20:37	279
2025	Mar	03	(Mon)	08:44	78	15:08	90S	21:36	286
2025	Mar	04	(Tue)	09:30	71	16:02	85N	22:38	292
2025	Mar	05	(Wed)	10:20	66	16:59	80N	23:40	296
2025	Mar	06	(Thu)	11:14	62	17:58	77N		
2025	Mar	07	(Fri)	12:12	61	18:58	76N	00:44	299
2025	Mar	08	(Sat)	13:12	61	19:57	76N	01:45	300
2025	Mar	09	(Sun)	14:11	63	20:54	79N	02:42	298
2025	Mar	10	(Mon)	15:09	66	21:45	82N	03:33	296
2025	Mar	11	(Tue)	16:03	71	22:33	87N	04:19	291
2025	Mar	12	(Wed)	16:53	76	23:17	89S	05:01	286
2025	Mar	13	(Thu)	17:41	82	23:59	83S	05:38	281
2025	Mar	14	(Fri)	18:28	88			06:13	275
2025	Mar	15	(Sat)	19:13	95	00:39	77S	06:47	269
2025	Mar	16	(Sun)	19:59	100	01:18	71S	07:20	263
2025	Mar	17	(Mon)	20:45	106	01:58	65S	07:55	257
2025	Mar	18	(Tue)	21:34	111	02:39	60S	08:31	252
2025	Mar	19	(Wed)	22:24	115	03:23	55S	09:10	247
2025	Mar	20	(Thu)	23:17	118	04:10	51S	09:54	244
2025	Mar	21	(Fri)			05:00	49S	10:41	241
2025	Mar	22	(Sat)	00:12	119	05:53	48S	11:34	240
2025	Mar	23	(Sun)	01:06	120	06:48	48S	12:30	241
2025	Mar	24	(Mon)	01:59	118	07:43	50S	13:28	243
2025	Mar	25	(Tue)	02:50	115	08:37	53S	14:27	247
2025	Mar	26	(Wed)	03:38	110	09:30	59S	15:25	253
2025	Mar	27	(Thu)	04:23	104	10:22	65S	16:23	260
2025	Mar	28	(Fri)	05:07	97	11:12	72S	17:21	267
2025	Mar	29	(Sat)	05:50	89	12:03	79S	18:19	275
2025	Mar	30	(Sun)	06:33	82	12:54	87S	19:19	282
2025	Mar	31	(Mon)	07:20	74	13:49	88N	20:22	289
2025	Apr	01	(Tue)	08:10	68	14:46	82N	21:26	294
2025	Apr	02	(Wed)	09:04	64	15:47	78N	22:32	298
2025	Apr	03	(Thu)	10:03	61	16:49	76N	23:36	300
2025	Apr	04	(Fri)	11:04	60	17:51	76N		
2025	Apr	05	(Sat)	12:05	62	18:49	78N	00:37	299
2025	Apr	06	(Sun)	13:04	65	19:43	81N	01:31	297
2025	Apr	07	(Mon)	13:59	69	20:32	86N	02:19	293

2025 Apr 08 (Tue)	14:50 75	21:16 91S	03:01 288
2025 Apr 09 (Wed)	15:39 80	21:58 85S	03:39 283
2025 Apr 10 (Thu)	16:25 86	22:38 79S	04:14 277
2025 Apr 11 (Fri)	17:10 92	23:17 73S	04:48 271
2025 Apr 12 (Sat)	17:55 98	23:57 67S	05:21 265
2025 Apr 13 (Sun)	18:42 104		05:55 259
2025 Apr 14 (Mon)	19:29 109	00:37 62S	06:31 253
2025 Apr 15 (Tue)	20:19 114	01:20 57S	07:09 249
2025 Apr 16 (Wed)	21:11 117	02:06 53S	07:51 245
2025 Apr 17 (Thu)	22:05 119	02:55 50S	08:37 242
2025 Apr 18 (Fri)	22:59 120	03:47 48S	09:28 241
2025 Apr 19 (Sat)	23:52 119	04:40 48S	10:21 241
2025 Apr 20 (Sun)		05:34 49S	11:18 242
2025 Apr 21 (Mon)	00:42 116	06:28 52S	12:15 246
2025 Apr 22 (Tue)	01:30 112	07:19 56S	13:11 250
2025 Apr 23 (Wed)	02:15 107	08:10 62S	14:08 256
2025 Apr 24 (Thu)	02:57 100	08:59 68S	15:04 263
2025 Apr 25 (Fri)	03:39 93	09:48 76S	16:00 271
2025 Apr 26 (Sat)	04:22 86	10:38 83S	16:59 278
2025 Apr 27 (Sun)	05:06 78	11:31 90S	18:00 286
2025 Apr 28 (Mon)	05:55 71	12:28 85N	19:04 292
2025 Apr 29 (Tue)	06:48 66	13:29 80N	20:12 296
2025 Apr 30 (Wed)	07:47 62	14:32 77N	21:19 299
2025 May 01 (Thu)	08:50 61	15:37 76N	22:24 299
2025 May 02 (Fri)	09:53 61	16:39 77N	23:23 298
2025 May 03 (Sat)	10:55 64	17:36 80N	
2025 May 04 (Sun)	11:53 68	18:28 84N	00:14 294
2025 May 05 (Mon)	12:46 73	19:14 89N	00:59 290
2025 May 06 (Tue)	13:36 79	19:57 87S	01:39 284
2025 May 07 (Wed)	14:23 85	20:38 81S	02:16 278
2025 May 08 (Thu)	15:08 91	21:17 75S	02:50 272
2025 May 09 (Fri)	15:53 97	21:56 69S	03:23 266
2025 May 10 (Sat)	16:39 102	22:36 63S	03:56 261
2025 May 11 (Sun)	17:26 108	23:19 58S	04:31 255
2025 May 12 (Mon)	18:15 112		05:09 250
2025 May 13 (Tue)	19:07 116	00:04 54S	05:50 246
2025 May 14 (Wed)	20:00 118	00:52 51S	06:35 243
2025 May 15 (Thu)	20:55 119	01:43 48S	07:24 241
2025 May 16 (Fri)	21:48 119	02:36 48S	08:17 241
2025 May 17 (Sat)	22:39 117	03:30 49S	09:12 242
2025 May 18 (Sun)	23:26 113	04:23 51S	10:08 245
2025 May 19 (Mon)		05:14 55S	11:04 249
2025 May 20 (Tue)	00:11 108	06:03 60S	11:59 254
2025 May 21 (Wed)	00:53 103	06:51 66S	12:53 261
2025 May 22 (Thu)	01:33 96	07:39 73S	13:47 268
2025 May 23 (Fri)	02:14 89	08:26 80S	14:43 275
2025 May 24 (Sat)	02:56 82	09:16 87S	15:41 282
2025 May 25 (Sun)	03:41 75	10:10 88N	16:42 289
2025 May 26 (Mon)	04:31 68	11:08 82N	17:48 294
2025 May 27 (Tue)	05:27 64	12:11 78N	18:56 298
2025 May 28 (Wed)	06:29 61	13:16 76N	20:04 299
2025 May 29 (Thu)	07:34 61	14:21 76N	21:07 298
2025 May 30 (Fri)	08:39 63	15:23 79N	22:04 296
2025 May 31 (Sat)	09:41 66	16:18 82N	22:53 291
2025 Jun 01 (Sun)	10:37 71	17:08 87N	23:36 286
2025 Jun 02 (Mon)	11:30 77	17:54 88S	
2025 Jun 03 (Tue)	12:18 83	18:36 83S	00:14 280
2025 Jun 04 (Wed)	13:05 89	19:16 77S	00:50 274
2025 Jun 05 (Thu)	13:50 95	19:55 71S	01:23 268
2025 Jun 06 (Fri)	14:36 101	20:35 65S	01:57 262
2025 Jun 07 (Sat)	15:22 106	21:16 60S	02:31 257
2025 Jun 08 (Sun)	16:11 111	22:00 55S	03:08 252
2025 Jun 09 (Mon)	17:02 115	22:47 52S	03:48 247
2025 Jun 10 (Tue)	17:55 118	23:38 49S	04:32 244
2025 Jun 11 (Wed)	18:49 119		05:20 241
2025 Jun 12 (Thu)	19:43 119	00:31 48S	06:12 241
2025 Jun 13 (Fri)	20:35 117	01:25 48S	07:07 241
2025 Jun 14 (Sat)	21:24 114	02:19 50S	08:04 244
2025 Jun 15 (Sun)	22:10 110	03:11 54S	09:00 248
2025 Jun 16 (Mon)	22:52 104	04:01 58S	09:55 253
2025 Jun 17 (Tue)	23:32 98	04:49 64S	10:49 259
2025 Jun 18 (Wed)		05:35 71S	11:42 265

2025 Jun 19 (Thu)	00:11 91	06:21 77S	12:35 272
2025 Jun 20 (Fri)	00:51 84	07:09 84S	13:30 280
2025 Jun 21 (Sat)	01:34 77	07:59 90N	14:28 286
2025 Jun 22 (Sun)	02:20 71	08:53 84N	15:30 292
2025 Jun 23 (Mon)	03:12 66	09:52 80N	16:35 296
2025 Jun 24 (Tue)	04:10 62	10:56 77N	17:43 299
2025 Jun 25 (Wed)	05:13 61	12:01 76N	18:48 299
2025 Jun 26 (Thu)	06:19 62	13:05 77N	19:48 297
2025 Jun 27 (Fri)	07:23 64	14:04 81N	20:42 293
2025 Jun 28 (Sat)	08:23 69	14:58 85N	21:28 288
2025 Jun 29 (Sun)	09:19 74	15:46 91N	22:10 283
2025 Jun 30 (Mon)	10:10 80	16:30 85S	22:47 277
2025 Jul 01 (Tue)	10:58 86	17:12 79S	23:22 270
2025 Jul 02 (Wed)	11:45 93	17:52 73S	23:56 264
2025 Jul 03 (Thu)	12:30 99	18:32 67S	
2025 Jul 04 (Fri)	13:17 104	19:13 61S	00:30 259
2025 Jul 05 (Sat)	14:05 109	19:56 57S	01:06 253
2025 Jul 06 (Sun)	14:55 114	20:42 53S	01:44 249
2025 Jul 07 (Mon)	15:47 117	21:31 50S	02:27 245
2025 Jul 08 (Tue)	16:42 119	22:23 48S	03:13 242
2025 Jul 09 (Wed)	17:36 119	23:18 48S	04:05 241
2025 Jul 10 (Thu)	18:30 118		05:00 241
2025 Jul 11 (Fri)	19:20 115	00:13 49S	05:57 243
2025 Jul 12 (Sat)	20:07 111	01:06 52S	06:54 246
2025 Jul 13 (Sun)	20:51 106	01:58 57S	07:50 251
2025 Jul 14 (Mon)	21:32 100	02:46 62S	08:45 257
2025 Jul 15 (Tue)	22:12 93	03:34 69S	09:38 264
2025 Jul 16 (Wed)	22:51 86	04:20 76S	10:31 271
2025 Jul 17 (Thu)	23:32 79	05:06 82S	11:25 278
2025 Jul 18 (Fri)		05:55 89S	12:21 284
2025 Jul 19 (Sat)	00:16 73	06:46 86N	13:20 290
2025 Jul 20 (Sun)	01:04 67	07:42 81N	14:22 295
2025 Jul 21 (Mon)	01:59 63	08:42 77N	15:27 298
2025 Jul 22 (Tue)	02:58 61	09:45 76N	16:32 299
2025 Jul 23 (Wed)	04:02 61	10:48 76N	17:34 298
2025 Jul 24 (Thu)	05:06 63	11:49 79N	18:30 295
2025 Jul 25 (Fri)	06:08 67	12:45 83N	19:19 291
2025 Jul 26 (Sat)	07:06 72	13:36 88N	20:03 285
2025 Jul 27 (Sun)	07:59 78	14:22 87S	20:42 279
2025 Jul 28 (Mon)	08:49 84	15:06 81S	21:18 273
2025 Jul 29 (Tue)	09:37 90	15:47 75S	21:53 267
2025 Jul 30 (Wed)	10:24 96	16:27 69S	22:28 261
2025 Jul 31 (Thu)	11:10 102	17:08 63S	23:03 255
2025 Aug 01 (Fri)	11:57 108	17:50 58S	23:40 250
2025 Aug 02 (Sat)	12:47 112	18:35 54S	
2025 Aug 03 (Sun)	13:38 116	19:23 51S	00:21 246
2025 Aug 04 (Mon)	14:32 118	20:14 48S	01:06 243
2025 Aug 05 (Tue)	15:26 119	21:07 48S	01:55 241
2025 Aug 06 (Wed)	16:20 119	22:02 49S	02:49 241
2025 Aug 07 (Thu)	17:12 117	22:57 51S	03:45 242
2025 Aug 08 (Fri)	18:01 113	23:50 55S	04:43 245
2025 Aug 09 (Sat)	18:47 108		05:40 249
2025 Aug 10 (Sun)	19:30 102	00:40 60S	06:37 255
2025 Aug 11 (Mon)	20:10 95	01:29 66S	07:32 261
2025 Aug 12 (Tue)	20:51 88	02:16 73S	08:26 268
2025 Aug 13 (Wed)	21:31 81	03:04 80S	09:20 276
2025 Aug 14 (Thu)	22:15 74	03:52 87S	10:16 282
2025 Aug 15 (Fri)	23:02 69	04:43 88N	11:15 289
2025 Aug 16 (Sat)	23:53 64	05:37 82N	12:16 294
2025 Aug 17 (Sun)		06:35 78N	13:19 298
2025 Aug 18 (Mon)	00:50 61	07:36 76N	14:23 299
2025 Aug 19 (Tue)	01:51 61	08:38 76N	15:24 299
2025 Aug 20 (Wed)	02:54 62	09:39 78N	16:21 297
2025 Aug 21 (Thu)	03:56 65	10:35 81N	17:12 293
2025 Aug 22 (Fri)	04:54 69	11:27 86N	17:57 288
2025 Aug 23 (Sat)	05:49 75	12:15 90S	18:38 282
2025 Aug 24 (Sun)	06:40 81	12:59 84S	19:15 276
2025 Aug 25 (Mon)	07:29 88	13:41 78S	19:50 269
2025 Aug 26 (Tue)	08:16 94	14:22 71S	20:25 263
2025 Aug 27 (Wed)	09:03 100	15:03 66S	21:00 257
2025 Aug 28 (Thu)	09:50 106	15:45 60S	21:37 252
2025 Aug 29 (Fri)	10:39 110	16:28 56S	22:16 247

2025 Aug 30 (Sat)	11:29 115	17:15 52S	22:59 244
2025 Aug 31 (Sun)	12:21 118	18:04 49S	23:46 241
2025 Sep 01 (Mon)	13:15 119	18:56 48S	
2025 Sep 02 (Tue)	14:09 119	19:50 48S	00:37 240
2025 Sep 03 (Wed)	15:01 118	20:44 50S	01:32 241
2025 Sep 04 (Thu)	15:51 115	21:38 53S	02:28 243
2025 Sep 05 (Fri)	16:38 111	22:29 58S	03:26 247
2025 Sep 06 (Sat)	17:23 105	23:19 64S	04:23 252
2025 Sep 07 (Sun)	18:05 98		05:19 258
2025 Sep 08 (Mon)	18:46 91	00:08 70S	06:15 265
2025 Sep 09 (Tue)	19:28 84	00:56 77S	07:10 273
2025 Sep 10 (Wed)	20:11 77	01:46 85S	08:07 280
2025 Sep 11 (Thu)	20:58 70	02:37 90N	09:07 287
2025 Sep 12 (Fri)	21:49 65	03:31 84N	10:08 292
2025 Sep 13 (Sat)	22:45 62	04:29 79N	11:12 297
2025 Sep 14 (Sun)	23:46 61	05:30 76N	12:17 299
2025 Sep 15 (Mon)		06:32 76N	13:19 299
2025 Sep 16 (Tue)	00:48 61	07:33 77N	14:17 298
2025 Sep 17 (Wed)	01:49 64	08:30 80N	15:09 294
2025 Sep 18 (Thu)	02:47 68	09:23 84N	15:55 290
2025 Sep 19 (Fri)	03:42 73	10:11 89N	16:36 284
2025 Sep 20 (Sat)	04:34 79	10:55 86S	17:14 278
2025 Sep 21 (Sun)	05:23 85	11:38 80S	17:49 272
2025 Sep 22 (Mon)	06:10 91	12:18 74S	18:24 266
2025 Sep 23 (Tue)	06:57 98	12:59 68S	18:59 260
2025 Sep 24 (Wed)	07:44 103	13:40 62S	19:35 254
2025 Sep 25 (Thu)	08:32 109	14:23 57S	20:13 249
2025 Sep 26 (Fri)	09:22 113	15:09 53S	20:54 245
2025 Sep 27 (Sat)	10:13 117	15:57 50S	21:39 242
2025 Sep 28 (Sun)	11:06 119	16:47 48S	22:28 241
2025 Sep 29 (Mon)	11:59 120	17:40 48S	23:21 241
2025 Sep 30 (Tue)	12:51 119	18:33 49S	
2025 Oct 01 (Wed)	13:41 117	19:25 51S	00:15 242
2025 Oct 02 (Thu)	14:28 113	20:17 55S	01:11 245
2025 Oct 03 (Fri)	15:13 108	21:07 61S	02:08 249
2025 Oct 04 (Sat)	15:56 102	21:55 67S	03:03 255
2025 Oct 05 (Sun)	16:37 95	22:44 74S	03:59 262
2025 Oct 06 (Mon)	17:19 87	23:33 81S	04:54 269
2025 Oct 07 (Tue)	18:02 80		05:51 276
2025 Oct 08 (Wed)	18:49 73	00:24 88S	06:51 284
2025 Oct 09 (Thu)	19:40 67	01:19 86N	07:53 290
2025 Oct 10 (Fri)	20:36 63	02:18 81N	08:59 295
2025 Oct 11 (Sat)	21:37 61	03:20 77N	10:06 298
2025 Oct 12 (Sun)	22:40 61	04:24 76N	11:11 299
2025 Oct 13 (Mon)	23:43 63	05:27 76N	12:12 298
2025 Oct 14 (Tue)		06:26 79N	13:06 295
2025 Oct 15 (Wed)	00:43 67	07:20 83N	13:54 291
2025 Oct 16 (Thu)	01:39 71	08:09 88N	14:36 286
2025 Oct 17 (Fri)	02:31 77	08:54 88S	15:14 280
2025 Oct 18 (Sat)	03:20 83	09:37 82S	15:50 274
2025 Oct 19 (Sun)	04:07 89	10:17 76S	16:25 268
2025 Oct 20 (Mon)	04:53 95	10:57 70S	16:59 262
2025 Oct 21 (Tue)	05:40 101	11:38 64S	17:34 256
2025 Oct 22 (Wed)	06:27 107	12:21 59S	18:12 251
2025 Oct 23 (Thu)	07:16 112	13:05 55S	18:52 247
2025 Oct 24 (Fri)	08:07 115	13:52 51S	19:36 243
2025 Oct 25 (Sat)	08:59 118	14:42 49S	20:23 241
2025 Oct 26 (Sun)	09:52 119	15:33 48S	21:14 241
2025 Oct 27 (Mon)	10:44 119	16:25 48S	22:07 241
2025 Oct 28 (Tue)	11:34 117	17:17 50S	23:01 244
2025 Oct 29 (Wed)	12:21 114	18:07 54S	23:56 248
2025 Oct 30 (Thu)	13:05 110	18:56 58S	
2025 Oct 31 (Fri)	13:47 105	19:44 64S	00:50 252
2025 Nov 01 (Sat)	14:28 98	20:31 70S	01:44 258
2025 Nov 02 (Sun)	15:08 91	21:19 77S	02:37 265
2025 Nov 03 (Mon)	15:50 84	22:08 85S	03:33 272
2025 Nov 04 (Tue)	16:35 77	23:01 90N	04:30 280
2025 Nov 05 (Wed)	17:24 70	23:59 84N	05:31 287
2025 Nov 06 (Thu)	18:19 65		06:37 293
2025 Nov 07 (Fri)	19:20 62	01:01 79N	07:45 297
2025 Nov 08 (Sat)	20:25 61	02:07 76N	08:54 299
2025 Nov 09 (Sun)	21:31 62	03:13 76N	10:00 299

2025 Nov 10 (Mon)	22:34 65	04:16 78N	10:58 296
2025 Nov 11 (Tue)	23:33 70	05:14 81N	11:50 292
2025 Nov 12 (Wed)		06:06 86N	12:35 287
2025 Nov 13 (Thu)	00:27 75	06:53 90S	13:15 282
2025 Nov 14 (Fri)	01:17 81	07:36 84S	13:51 276
2025 Nov 15 (Sat)	02:05 88	08:17 78S	14:26 269
2025 Nov 16 (Sun)	02:51 94	08:57 72S	15:00 263
2025 Nov 17 (Mon)	03:37 100	09:37 66S	15:35 258
2025 Nov 18 (Tue)	04:24 105	10:19 61S	16:11 252
2025 Nov 19 (Wed)	05:12 110	11:03 56S	16:51 248
2025 Nov 20 (Thu)	06:03 114	11:49 52S	17:33 244
2025 Nov 21 (Fri)	06:55 117	12:38 50S	18:20 242
2025 Nov 22 (Sat)	07:47 119	13:29 48S	19:10 241
2025 Nov 23 (Sun)	08:40 119	14:21 48S	20:02 241
2025 Nov 24 (Mon)	09:30 118	15:12 50S	20:56 243
2025 Nov 25 (Tue)	10:18 115	16:03 53S	21:50 246
2025 Nov 26 (Wed)	11:02 111	16:51 57S	22:43 251
2025 Nov 27 (Thu)	11:43 106	17:38 62S	23:35 256
2025 Nov 28 (Fri)	12:23 101	18:23 68S	
2025 Nov 29 (Sat)	13:02 94	19:09 74S	00:27 263
2025 Nov 30 (Sun)	13:41 87	19:55 81S	01:19 269
2025 Dec 01 (Mon)	14:23 80	20:45 88S	02:13 276
2025 Dec 02 (Tue)	15:08 73	21:38 87N	03:10 283
2025 Dec 03 (Wed)	16:00 68	22:38 81N	04:12 290
2025 Dec 04 (Thu)	16:58 63	23:42 78N	05:19 295
2025 Dec 05 (Fri)	18:02 61		06:28 298
2025 Dec 06 (Sat)	19:10 61	00:49 76N	07:37 299
2025 Dec 07 (Sun)	20:17 64	01:56 77N	08:42 298
2025 Dec 08 (Mon)	21:20 68	02:59 80N	09:39 294
2025 Dec 09 (Tue)	22:18 73	03:56 84N	10:28 289
2025 Dec 10 (Wed)	23:11 79	04:46 90N	11:11 284
2025 Dec 11 (Thu)		05:32 86S	11:50 278
2025 Dec 12 (Fri)	00:01 86	06:15 80S	12:26 271
2025 Dec 13 (Sat)	00:48 92	06:56 73S	13:01 265
2025 Dec 14 (Sun)	01:34 98	07:36 68S	13:35 259
2025 Dec 15 (Mon)	02:21 104	08:17 62S	14:11 254
2025 Dec 16 (Tue)	03:09 109	09:00 57S	14:50 249
2025 Dec 17 (Wed)	03:58 113	09:46 53S	15:31 245
2025 Dec 18 (Thu)	04:50 116	10:34 50S	16:16 243
2025 Dec 19 (Fri)	05:42 118	11:24 48S	17:06 241
2025 Dec 20 (Sat)	06:35 119	12:16 48S	17:58 241
2025 Dec 21 (Sun)	07:27 118	13:09 49S	18:52 242
2025 Dec 22 (Mon)	08:15 116	14:00 52S	19:46 245
2025 Dec 23 (Tue)	09:01 113	14:49 56S	20:39 250
2025 Dec 24 (Wed)	09:43 108	15:36 60S	21:31 255
2025 Dec 25 (Thu)	10:23 102	16:21 66S	22:22 261
2025 Dec 26 (Fri)	11:01 96	17:05 72S	23:13 267
2025 Dec 27 (Sat)	11:39 89	17:50 79S	
2025 Dec 28 (Sun)	12:18 83	18:36 86S	00:05 274
2025 Dec 29 (Mon)	13:00 76	19:26 89N	00:59 281
2025 Dec 30 (Tue)	13:46 70	20:20 84N	01:56 287
2025 Dec 31 (Wed)	14:39 65	21:20 79N	02:58 293