

Sun

Satun

Location: E 99°51'28.8", N 6°41'38.4", 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)	05:43	06:32	113	12:24	61S	18:16	247	19:05
2025	Jan	02 (Thu)	05:44	06:32	113	12:25	61S	18:17	247	19:06
2025	Jan	03 (Fri)	05:44	06:33	113	12:25	61S	18:18	247	19:06
2025	Jan	04 (Sat)	05:44	06:33	113	12:26	61S	18:18	247	19:07
2025	Jan	05 (Sun)	05:45	06:33	113	12:26	61S	18:19	247	19:07
2025	Jan	06 (Mon)	05:45	06:34	113	12:26	62S	18:19	248	19:08
2025	Jan	07 (Tue)	05:46	06:34	112	12:27	62S	18:20	248	19:08
2025	Jan	08 (Wed)	05:46	06:35	112	12:27	62S	18:20	248	19:08
2025	Jan	09 (Thu)	05:47	06:35	112	12:28	62S	18:21	248	19:09
2025	Jan	10 (Fri)	05:47	06:35	112	12:28	62S	18:21	248	19:09
2025	Jan	11 (Sat)	05:47	06:36	112	12:28	62S	18:21	248	19:10
2025	Jan	12 (Sun)	05:48	06:36	112	12:29	62S	18:22	248	19:10
2025	Jan	13 (Mon)	05:48	06:36	112	12:29	63S	18:22	249	19:11
2025	Jan	14 (Tue)	05:48	06:36	111	12:30	63S	18:23	249	19:11
2025	Jan	15 (Wed)	05:49	06:37	111	12:30	63S	18:23	249	19:11
2025	Jan	16 (Thu)	05:49	06:37	111	12:30	63S	18:24	249	19:12
2025	Jan	17 (Fri)	05:49	06:37	111	12:31	63S	18:24	249	19:12
2025	Jan	18 (Sat)	05:50	06:37	111	12:31	64S	18:25	250	19:12
2025	Jan	19 (Sun)	05:50	06:38	110	12:31	64S	18:25	250	19:13
2025	Jan	20 (Mon)	05:50	06:38	110	12:32	64S	18:25	250	19:13
2025	Jan	21 (Tue)	05:50	06:38	110	12:32	64S	18:26	250	19:13
2025	Jan	22 (Wed)	05:51	06:38	110	12:32	64S	18:26	250	19:14
2025	Jan	23 (Thu)	05:51	06:38	109	12:32	65S	18:27	251	19:14
2025	Jan	24 (Fri)	05:51	06:38	109	12:33	65S	18:27	251	19:14
2025	Jan	25 (Sat)	05:51	06:38	109	12:33	65S	18:27	251	19:15
2025	Jan	26 (Sun)	05:51	06:39	109	12:33	65S	18:28	251	19:15
2025	Jan	27 (Mon)	05:51	06:39	108	12:33	66S	18:28	252	19:15
2025	Jan	28 (Tue)	05:52	06:39	108	12:33	66S	18:28	252	19:15
2025	Jan	29 (Wed)	05:52	06:39	108	12:34	66S	18:29	252	19:16
2025	Jan	30 (Thu)	05:52	06:39	108	12:34	66S	18:29	252	19:16
2025	Jan	31 (Fri)	05:52	06:39	107	12:34	67S	18:29	253	19:16
2025	Feb	01 (Sat)	05:52	06:39	107	12:34	67S	18:29	253	19:16
2025	Feb	02 (Sun)	05:52	06:39	107	12:34	67S	18:30	253	19:17
2025	Feb	03 (Mon)	05:52	06:39	107	12:34	68S	18:30	254	19:17
2025	Feb	04 (Tue)	05:52	06:39	106	12:34	68S	18:30	254	19:17
2025	Feb	05 (Wed)	05:52	06:39	106	12:35	68S	18:30	254	19:17
2025	Feb	06 (Thu)	05:52	06:39	106	12:35	68S	18:31	255	19:17
2025	Feb	07 (Fri)	05:52	06:39	105	12:35	69S	18:31	255	19:17
2025	Feb	08 (Sat)	05:52	06:38	105	12:35	69S	18:31	255	19:17
2025	Feb	09 (Sun)	05:52	06:38	105	12:35	69S	18:31	255	19:18
2025	Feb	10 (Mon)	05:52	06:38	104	12:35	70S	18:31	256	19:18
2025	Feb	11 (Tue)	05:52	06:38	104	12:35	70S	18:32	256	19:18
2025	Feb	12 (Wed)	05:52	06:38	104	12:35	70S	18:32	256	19:18
2025	Feb	13 (Thu)	05:52	06:38	103	12:35	71S	18:32	257	19:18
2025	Feb	14 (Fri)	05:51	06:37	103	12:35	71S	18:32	257	19:18
2025	Feb	15 (Sat)	05:51	06:37	103	12:35	71S	18:32	258	19:18
2025	Feb	16 (Sun)	05:51	06:37	102	12:35	72S	18:32	258	19:18
2025	Feb	17 (Mon)	05:51	06:37	102	12:35	72S	18:32	258	19:18
2025	Feb	18 (Tue)	05:51	06:37	102	12:34	72S	18:32	259	19:18
2025	Feb	19 (Wed)	05:51	06:36	101	12:34	73S	18:32	259	19:18
2025	Feb	20 (Thu)	05:50	06:36	101	12:34	73S	18:33	259	19:18
2025	Feb	21 (Fri)	05:50	06:36	101	12:34	74S	18:33	260	19:18
2025	Feb	22 (Sat)	05:50	06:35	100	12:34	74S	18:33	260	19:18
2025	Feb	23 (Sun)	05:50	06:35	100	12:34	74S	18:33	260	19:18
2025	Feb	24 (Mon)	05:49	06:35	99	12:34	75S	18:33	261	19:18
2025	Feb	25 (Tue)	05:49	06:35	99	12:34	75S	18:33	261	19:18
2025	Feb	26 (Wed)	05:49	06:34	99	12:33	75S	18:33	262	19:18
2025	Feb	27 (Thu)	05:48	06:34	98	12:33	76S	18:33	262	19:18
2025	Feb	28 (Fri)	05:48	06:33	98	12:33	76S	18:33	262	19:18
2025	Mar	01 (Sat)	05:48	06:33	98	12:33	77S	18:33	263	19:18

2025	Mar	02	(Sun)	05:47	06:33	97	12:33	77S	18:33	263	19:18
2025	Mar	03	(Mon)	05:47	06:32	97	12:32	77S	18:33	263	19:18
2025	Mar	04	(Tue)	05:47	06:32	96	12:32	78S	18:33	264	19:18
2025	Mar	05	(Wed)	05:46	06:32	96	12:32	78S	18:33	264	19:18
2025	Mar	06	(Thu)	05:46	06:31	96	12:32	78S	18:33	265	19:18
2025	Mar	07	(Fri)	05:46	06:31	95	12:32	79S	18:32	265	19:18
2025	Mar	08	(Sat)	05:45	06:30	95	12:31	79S	18:32	265	19:17
2025	Mar	09	(Sun)	05:45	06:30	94	12:31	80S	18:32	266	19:17
2025	Mar	10	(Mon)	05:44	06:29	94	12:31	80S	18:32	266	19:17
2025	Mar	11	(Tue)	05:44	06:29	94	12:31	80S	18:32	267	19:17
2025	Mar	12	(Wed)	05:44	06:29	93	12:30	81S	18:32	267	19:17
2025	Mar	13	(Thu)	05:43	06:28	93	12:30	81S	18:32	267	19:17
2025	Mar	14	(Fri)	05:43	06:28	92	12:30	82S	18:32	268	19:17
2025	Mar	15	(Sat)	05:42	06:27	92	12:29	82S	18:32	268	19:17
2025	Mar	16	(Sun)	05:42	06:27	92	12:29	82S	18:32	269	19:17
2025	Mar	17	(Mon)	05:41	06:26	91	12:29	83S	18:32	269	19:17
2025	Mar	18	(Tue)	05:41	06:26	91	12:29	83S	18:32	269	19:16
2025	Mar	19	(Wed)	05:40	06:25	90	12:28	84S	18:31	270	19:16
2025	Mar	20	(Thu)	05:40	06:25	90	12:28	84S	18:31	270	19:16
2025	Mar	21	(Fri)	05:39	06:24	90	12:28	84S	18:31	271	19:16
2025	Mar	22	(Sat)	05:39	06:24	89	12:27	85S	18:31	271	19:16
2025	Mar	23	(Sun)	05:38	06:23	89	12:27	85S	18:31	271	19:16
2025	Mar	24	(Mon)	05:38	06:23	88	12:27	86S	18:31	272	19:16
2025	Mar	25	(Tue)	05:37	06:22	88	12:27	86S	18:31	272	19:16
2025	Mar	26	(Wed)	05:37	06:22	88	12:26	86S	18:31	273	19:16
2025	Mar	27	(Thu)	05:36	06:21	87	12:26	87S	18:31	273	19:16
2025	Mar	28	(Fri)	05:36	06:21	87	12:26	87S	18:30	273	19:15
2025	Mar	29	(Sat)	05:35	06:20	86	12:25	87S	18:30	274	19:15
2025	Mar	30	(Sun)	05:35	06:20	86	12:25	88S	18:30	274	19:15
2025	Mar	31	(Mon)	05:34	06:19	86	12:25	88S	18:30	274	19:15
2025	Apr	01	(Tue)	05:34	06:19	85	12:24	89S	18:30	275	19:15
2025	Apr	02	(Wed)	05:33	06:19	85	12:24	89S	18:30	275	19:15
2025	Apr	03	(Thu)	05:33	06:18	85	12:24	89S	18:30	276	19:15
2025	Apr	04	(Fri)	05:32	06:18	84	12:24	90S	18:30	276	19:15
2025	Apr	05	(Sat)	05:32	06:17	84	12:23	90S	18:30	276	19:15
2025	Apr	06	(Sun)	05:31	06:17	83	12:23	91S	18:29	277	19:15
2025	Apr	07	(Mon)	05:31	06:16	83	12:23	90N	18:29	277	19:15
2025	Apr	08	(Tue)	05:30	06:16	83	12:22	90N	18:29	278	19:15
2025	Apr	09	(Wed)	05:30	06:15	82	12:22	90N	18:29	278	19:15
2025	Apr	10	(Thu)	05:29	06:15	82	12:22	89N	18:29	278	19:15
2025	Apr	11	(Fri)	05:29	06:14	82	12:22	89N	18:29	279	19:15
2025	Apr	12	(Sat)	05:28	06:14	81	12:21	89N	18:29	279	19:14
2025	Apr	13	(Sun)	05:28	06:13	81	12:21	88N	18:29	279	19:14
2025	Apr	14	(Mon)	05:27	06:13	80	12:21	88N	18:29	280	19:14
2025	Apr	15	(Tue)	05:27	06:13	80	12:21	88N	18:29	280	19:14
2025	Apr	16	(Wed)	05:26	06:12	80	12:20	87N	18:29	280	19:14
2025	Apr	17	(Thu)	05:26	06:12	79	12:20	87N	18:29	281	19:14
2025	Apr	18	(Fri)	05:25	06:11	79	12:20	86N	18:28	281	19:14
2025	Apr	19	(Sat)	05:25	06:11	79	12:20	86N	18:28	282	19:14
2025	Apr	20	(Sun)	05:25	06:11	78	12:19	86N	18:28	282	19:14
2025	Apr	21	(Mon)	05:24	06:10	78	12:19	85N	18:28	282	19:15
2025	Apr	22	(Tue)	05:24	06:10	78	12:19	85N	18:28	283	19:15
2025	Apr	23	(Wed)	05:23	06:10	77	12:19	85N	18:28	283	19:15
2025	Apr	24	(Thu)	05:23	06:09	77	12:19	84N	18:28	283	19:15
2025	Apr	25	(Fri)	05:22	06:09	77	12:19	84N	18:28	284	19:15
2025	Apr	26	(Sat)	05:22	06:08	76	12:18	84N	18:28	284	19:15
2025	Apr	27	(Sun)	05:22	06:08	76	12:18	83N	18:28	284	19:15
2025	Apr	28	(Mon)	05:21	06:08	76	12:18	83N	18:28	285	19:15
2025	Apr	29	(Tue)	05:21	06:08	75	12:18	83N	18:28	285	19:15
2025	Apr	30	(Wed)	05:21	06:07	75	12:18	83N	18:28	285	19:15
2025	May	01	(Thu)	05:20	06:07	75	12:18	82N	18:28	285	19:15
2025	May	02	(Fri)	05:20	06:07	74	12:18	82N	18:28	286	19:15
2025	May	03	(Sat)	05:19	06:06	74	12:17	82N	18:29	286	19:16
2025	May	04	(Sun)	05:19	06:06	74	12:17	81N	18:29	286	19:16
2025	May	05	(Mon)	05:19	06:06	74	12:17	81N	18:29	287	19:16
2025	May	06	(Tue)	05:19	06:06	73	12:17	81N	18:29	287	19:16
2025	May	07	(Wed)	05:18	06:06	73	12:17	81N	18:29	287	19:16
2025	May	08	(Thu)	05:18	06:05	73	12:17	80N	18:29	287	19:16
2025	May	09	(Fri)	05:18	06:05	72	12:17	80N	18:29	288	19:16
2025	May	10	(Sat)	05:17	06:05	72	12:17	80N	18:29	288	19:17
2025	May	11	(Sun)	05:17	06:05	72	12:17	79N	18:29	288	19:17
2025	May	12	(Mon)	05:17	06:05	72	12:17	79N	18:29	288	19:17

2025	May	13	(Tue)	05:17	06:04	71	12:17	79N	18:29	289	19:17
2025	May	14	(Wed)	05:17	06:04	71	12:17	79N	18:30	289	19:17
2025	May	15	(Thu)	05:16	06:04	71	12:17	78N	18:30	289	19:18
2025	May	16	(Fri)	05:16	06:04	71	12:17	78N	18:30	289	19:18
2025	May	17	(Sat)	05:16	06:04	70	12:17	78N	18:30	290	19:18
2025	May	18	(Sun)	05:16	06:04	70	12:17	78N	18:30	290	19:18
2025	May	19	(Mon)	05:16	06:04	70	12:17	78N	18:30	290	19:19
2025	May	20	(Tue)	05:16	06:04	70	12:17	77N	18:30	290	19:19
2025	May	21	(Wed)	05:15	06:04	70	12:17	77N	18:31	291	19:19
2025	May	22	(Thu)	05:15	06:04	69	12:17	77N	18:31	291	19:19
2025	May	23	(Fri)	05:15	06:04	69	12:17	77N	18:31	291	19:20
2025	May	24	(Sat)	05:15	06:04	69	12:17	77N	18:31	291	19:20
2025	May	25	(Sun)	05:15	06:04	69	12:18	76N	18:31	291	19:20
2025	May	26	(Mon)	05:15	06:04	69	12:18	76N	18:32	291	19:20
2025	May	27	(Tue)	05:15	06:04	68	12:18	76N	18:32	292	19:21
2025	May	28	(Wed)	05:15	06:04	68	12:18	76N	18:32	292	19:21
2025	May	29	(Thu)	05:15	06:04	68	12:18	76N	18:32	292	19:21
2025	May	30	(Fri)	05:15	06:04	68	12:18	76N	18:33	292	19:21
2025	May	31	(Sat)	05:15	06:04	68	12:18	75N	18:33	292	19:22
2025	Jun	01	(Sun)	05:15	06:04	68	12:18	75N	18:33	292	19:22
2025	Jun	02	(Mon)	05:15	06:04	68	12:19	75N	18:33	293	19:22
2025	Jun	03	(Tue)	05:15	06:04	67	12:19	75N	18:33	293	19:23
2025	Jun	04	(Wed)	05:15	06:04	67	12:19	75N	18:34	293	19:23
2025	Jun	05	(Thu)	05:15	06:04	67	12:19	75N	18:34	293	19:23
2025	Jun	06	(Fri)	05:15	06:04	67	12:19	75N	18:34	293	19:23
2025	Jun	07	(Sat)	05:15	06:05	67	12:19	75N	18:34	293	19:24
2025	Jun	08	(Sun)	05:15	06:05	67	12:20	75N	18:35	293	19:24
2025	Jun	09	(Mon)	05:15	06:05	67	12:20	74N	18:35	293	19:24
2025	Jun	10	(Tue)	05:16	06:05	67	12:20	74N	18:35	293	19:25
2025	Jun	11	(Wed)	05:16	06:05	67	12:20	74N	18:35	293	19:25
2025	Jun	12	(Thu)	05:16	06:05	67	12:20	74N	18:36	293	19:25
2025	Jun	13	(Fri)	05:16	06:05	67	12:21	74N	18:36	294	19:25
2025	Jun	14	(Sat)	05:16	06:06	66	12:21	74N	18:36	294	19:26
2025	Jun	15	(Sun)	05:16	06:06	66	12:21	74N	18:36	294	19:26
2025	Jun	16	(Mon)	05:17	06:06	66	12:21	74N	18:37	294	19:26
2025	Jun	17	(Tue)	05:17	06:06	66	12:21	74N	18:37	294	19:26
2025	Jun	18	(Wed)	05:17	06:06	66	12:22	74N	18:37	294	19:27
2025	Jun	19	(Thu)	05:17	06:07	66	12:22	74N	18:37	294	19:27
2025	Jun	20	(Fri)	05:17	06:07	66	12:22	74N	18:38	294	19:27
2025	Jun	21	(Sat)	05:17	06:07	66	12:22	74N	18:38	294	19:27
2025	Jun	22	(Sun)	05:18	06:07	66	12:23	74N	18:38	294	19:27
2025	Jun	23	(Mon)	05:18	06:07	66	12:23	74N	18:38	294	19:28
2025	Jun	24	(Tue)	05:18	06:08	66	12:23	74N	18:38	294	19:28
2025	Jun	25	(Wed)	05:18	06:08	66	12:23	74N	18:39	294	19:28
2025	Jun	26	(Thu)	05:19	06:08	66	12:23	74N	18:39	294	19:28
2025	Jun	27	(Fri)	05:19	06:08	66	12:24	74N	18:39	294	19:28
2025	Jun	28	(Sat)	05:19	06:09	66	12:24	74N	18:39	294	19:29
2025	Jun	29	(Sun)	05:19	06:09	66	12:24	74N	18:39	293	19:29
2025	Jun	30	(Mon)	05:20	06:09	67	12:24	74N	18:39	293	19:29
2025	Jul	01	(Tue)	05:20	06:09	67	12:24	74N	18:40	293	19:29
2025	Jul	02	(Wed)	05:20	06:10	67	12:25	74N	18:40	293	19:29
2025	Jul	03	(Thu)	05:20	06:10	67	12:25	74N	18:40	293	19:29
2025	Jul	04	(Fri)	05:21	06:10	67	12:25	75N	18:40	293	19:29
2025	Jul	05	(Sat)	05:21	06:10	67	12:25	75N	18:40	293	19:29
2025	Jul	06	(Sun)	05:21	06:10	67	12:25	75N	18:40	293	19:29
2025	Jul	07	(Mon)	05:22	06:11	67	12:26	75N	18:40	293	19:29
2025	Jul	08	(Tue)	05:22	06:11	67	12:26	75N	18:40	293	19:30
2025	Jul	09	(Wed)	05:22	06:11	67	12:26	75N	18:41	293	19:30
2025	Jul	10	(Thu)	05:22	06:11	68	12:26	75N	18:41	292	19:30
2025	Jul	11	(Fri)	05:23	06:12	68	12:26	75N	18:41	292	19:30
2025	Jul	12	(Sat)	05:23	06:12	68	12:26	75N	18:41	292	19:30
2025	Jul	13	(Sun)	05:23	06:12	68	12:26	76N	18:41	292	19:30
2025	Jul	14	(Mon)	05:23	06:12	68	12:26	76N	18:41	292	19:30
2025	Jul	15	(Tue)	05:24	06:12	68	12:27	76N	18:41	292	19:29
2025	Jul	16	(Wed)	05:24	06:13	68	12:27	76N	18:41	292	19:29
2025	Jul	17	(Thu)	05:24	06:13	69	12:27	76N	18:41	291	19:29
2025	Jul	18	(Fri)	05:24	06:13	69	12:27	76N	18:41	291	19:29
2025	Jul	19	(Sat)	05:25	06:13	69	12:27	77N	18:41	291	19:29
2025	Jul	20	(Sun)	05:25	06:13	69	12:27	77N	18:41	291	19:29
2025	Jul	21	(Mon)	05:25	06:13	69	12:27	77N	18:41	291	19:29
2025	Jul	22	(Tue)	05:25	06:14	69	12:27	77N	18:41	290	19:29
2025	Jul	23	(Wed)	05:25	06:14	70	12:27	77N	18:40	290	19:29

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

2025	Oct	04	(Sat)	05:23	06:08	94	12:09	80S	18:10	266	18:56
2025	Oct	05	(Sun)	05:23	06:08	95	12:09	79S	18:10	265	18:55
2025	Oct	06	(Mon)	05:23	06:08	95	12:09	79S	18:09	265	18:55
2025	Oct	07	(Tue)	05:23	06:08	95	12:08	78S	18:09	264	18:54
2025	Oct	08	(Wed)	05:22	06:08	96	12:08	78S	18:09	264	18:54
2025	Oct	09	(Thu)	05:22	06:08	96	12:08	78S	18:08	264	18:53
2025	Oct	10	(Fri)	05:22	06:07	97	12:08	77S	18:08	263	18:53
2025	Oct	11	(Sat)	05:22	06:07	97	12:07	77S	18:07	263	18:52
2025	Oct	12	(Sun)	05:22	06:07	97	12:07	77S	18:07	262	18:52
2025	Oct	13	(Mon)	05:22	06:07	98	12:07	76S	18:06	262	18:52
2025	Oct	14	(Tue)	05:22	06:07	98	12:07	76S	18:06	262	18:51
2025	Oct	15	(Wed)	05:22	06:07	98	12:06	75S	18:06	261	18:51
2025	Oct	16	(Thu)	05:22	06:07	99	12:06	75S	18:05	261	18:51
2025	Oct	17	(Fri)	05:21	06:07	99	12:06	75S	18:05	261	18:50
2025	Oct	18	(Sat)	05:21	06:07	100	12:06	74S	18:04	260	18:50
2025	Oct	19	(Sun)	05:21	06:07	100	12:06	74S	18:04	260	18:50
2025	Oct	20	(Mon)	05:21	06:07	100	12:05	74S	18:04	260	18:49
2025	Oct	21	(Tue)	05:21	06:07	101	12:05	73S	18:03	259	18:49
2025	Oct	22	(Wed)	05:21	06:07	101	12:05	73S	18:03	259	18:49
2025	Oct	23	(Thu)	05:21	06:07	101	12:05	73S	18:03	258	18:49
2025	Oct	24	(Fri)	05:21	06:07	102	12:05	72S	18:02	258	18:48
2025	Oct	25	(Sat)	05:21	06:07	102	12:05	72S	18:02	258	18:48
2025	Oct	26	(Sun)	05:21	06:07	102	12:05	71S	18:02	257	18:48
2025	Oct	27	(Mon)	05:21	06:07	103	12:04	71S	18:02	257	18:48
2025	Oct	28	(Tue)	05:21	06:07	103	12:04	71S	18:01	257	18:48
2025	Oct	29	(Wed)	05:21	06:07	103	12:04	70S	18:01	256	18:47
2025	Oct	30	(Thu)	05:21	06:07	104	12:04	70S	18:01	256	18:47
2025	Oct	31	(Fri)	05:21	06:08	104	12:04	70S	18:01	256	18:47
2025	Nov	01	(Sat)	05:21	06:08	104	12:04	70S	18:01	255	18:47
2025	Nov	02	(Sun)	05:21	06:08	105	12:04	69S	18:00	255	18:47
2025	Nov	03	(Mon)	05:21	06:08	105	12:04	69S	18:00	255	18:47
2025	Nov	04	(Tue)	05:22	06:08	105	12:04	69S	18:00	254	18:47
2025	Nov	05	(Wed)	05:22	06:08	106	12:04	68S	18:00	254	18:47
2025	Nov	06	(Thu)	05:22	06:08	106	12:04	68S	18:00	254	18:47
2025	Nov	07	(Fri)	05:22	06:09	106	12:04	68S	18:00	254	18:47
2025	Nov	08	(Sat)	05:22	06:09	107	12:04	67S	18:00	253	18:47
2025	Nov	09	(Sun)	05:22	06:09	107	12:04	67S	18:00	253	18:47
2025	Nov	10	(Mon)	05:22	06:09	107	12:04	67S	18:00	253	18:47
2025	Nov	11	(Tue)	05:22	06:09	107	12:05	67S	18:00	252	18:47
2025	Nov	12	(Wed)	05:23	06:10	108	12:05	66S	18:00	252	18:47
2025	Nov	13	(Thu)	05:23	06:10	108	12:05	66S	18:00	252	18:47
2025	Nov	14	(Fri)	05:23	06:10	108	12:05	66S	18:00	252	18:47
2025	Nov	15	(Sat)	05:23	06:11	109	12:05	65S	18:00	251	18:47
2025	Nov	16	(Sun)	05:24	06:11	109	12:05	65S	18:00	251	18:47
2025	Nov	17	(Mon)	05:24	06:11	109	12:06	65S	18:00	251	18:47
2025	Nov	18	(Tue)	05:24	06:11	109	12:06	65S	18:00	251	18:47
2025	Nov	19	(Wed)	05:24	06:12	109	12:06	64S	18:00	250	18:48
2025	Nov	20	(Thu)	05:25	06:12	110	12:06	64S	18:00	250	18:48
2025	Nov	21	(Fri)	05:25	06:13	110	12:06	64S	18:00	250	18:48
2025	Nov	22	(Sat)	05:25	06:13	110	12:07	64S	18:00	250	18:48
2025	Nov	23	(Sun)	05:25	06:13	110	12:07	64S	18:01	250	18:48
2025	Nov	24	(Mon)	05:26	06:14	111	12:07	63S	18:01	249	18:49
2025	Nov	25	(Tue)	05:26	06:14	111	12:08	63S	18:01	249	18:49
2025	Nov	26	(Wed)	05:26	06:14	111	12:08	63S	18:01	249	18:49
2025	Nov	27	(Thu)	05:27	06:15	111	12:08	63S	18:01	249	18:50
2025	Nov	28	(Fri)	05:27	06:15	111	12:09	63S	18:02	249	18:50
2025	Nov	29	(Sat)	05:28	06:16	112	12:09	62S	18:02	248	18:50
2025	Nov	30	(Sun)	05:28	06:16	112	12:09	62S	18:02	248	18:50
2025	Dec	01	(Mon)	05:28	06:17	112	12:10	62S	18:02	248	18:51
2025	Dec	02	(Tue)	05:29	06:17	112	12:10	62S	18:03	248	18:51
2025	Dec	03	(Wed)	05:29	06:18	112	12:10	62S	18:03	248	18:52
2025	Dec	04	(Thu)	05:30	06:18	112	12:11	62S	18:03	248	18:52
2025	Dec	05	(Fri)	05:30	06:18	112	12:11	62S	18:04	248	18:52
2025	Dec	06	(Sat)	05:30	06:19	113	12:12	61S	18:04	247	18:53
2025	Dec	07	(Sun)	05:31	06:19	113	12:12	61S	18:05	247	18:53
2025	Dec	08	(Mon)	05:31	06:20	113	12:12	61S	18:05	247	18:54
2025	Dec	09	(Tue)	05:32	06:20	113	12:13	61S	18:05	247	18:54
2025	Dec	10	(Wed)	05:32	06:21	113	12:13	61S	18:06	247	18:54
2025	Dec	11	(Thu)	05:33	06:21	113	12:14	61S	18:06	247	18:55
2025	Dec	12	(Fri)	05:33	06:22	113	12:14	61S	18:07	247	18:55
2025	Dec	13	(Sat)	05:34	06:22	113	12:15	61S	18:07	247	18:56
2025	Dec	14	(Sun)	05:34	06:23	113	12:15	61S	18:07	247	18:56

2025	Dec	15	(Mon)	05:35	06:23	113	12:16	61S	18:08	247	18:57
2025	Dec	16	(Tue)	05:35	06:24	113	12:16	61S	18:08	247	18:57
2025	Dec	17	(Wed)	05:36	06:24	113	12:17	61S	18:09	247	18:58
2025	Dec	18	(Thu)	05:36	06:25	113	12:17	61S	18:09	247	18:58
2025	Dec	19	(Fri)	05:37	06:25	113	12:18	61S	18:10	247	18:59
2025	Dec	20	(Sat)	05:37	06:26	113	12:18	61S	18:10	247	18:59
2025	Dec	21	(Sun)	05:38	06:26	114	12:19	61S	18:11	246	19:00
2025	Dec	22	(Mon)	05:38	06:27	114	12:19	61S	18:11	246	19:00
2025	Dec	23	(Tue)	05:39	06:27	113	12:20	61S	18:12	247	19:01
2025	Dec	24	(Wed)	05:39	06:28	113	12:20	61S	18:12	247	19:01
2025	Dec	25	(Thu)	05:40	06:28	113	12:21	61S	18:13	247	19:02
2025	Dec	26	(Fri)	05:40	06:29	113	12:21	61S	18:13	247	19:02
2025	Dec	27	(Sat)	05:41	06:29	113	12:22	61S	18:14	247	19:03
2025	Dec	28	(Sun)	05:41	06:30	113	12:22	61S	18:14	247	19:03
2025	Dec	29	(Mon)	05:42	06:30	113	12:23	61S	18:15	247	19:04
2025	Dec	30	(Tue)	05:42	06:31	113	12:23	61S	18:15	247	19:04
2025	Dec	31	(Wed)	05:43	06:31	113	12:24	61S	18:16	247	19:05

Sun

Satun

Location: E 99°51'28.8", N 6°41'38.4", 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)	06:09		06:32	113		12:24	61S		18:16	247		18:39		
2025	Jan	02	(Thu)	06:10		06:32	113		12:25	61S		18:17	247		18:40		
2025	Jan	03	(Fri)	06:10		06:33	113		12:25	61S		18:18	247		18:40		
2025	Jan	04	(Sat)	06:11		06:33	113		12:26	61S		18:18	247		18:41		
2025	Jan	05	(Sun)	06:11		06:33	113		12:26	61S		18:19	247		18:41		
2025	Jan	06	(Mon)	06:11		06:34	113		12:26	62S		18:19	248		18:42		
2025	Jan	07	(Tue)	06:12		06:34	112		12:27	62S		18:20	248		18:42		
2025	Jan	08	(Wed)	06:12		06:35	112		12:27	62S		18:20	248		18:42		
2025	Jan	09	(Thu)	06:12		06:35	112		12:28	62S		18:21	248		18:43		
2025	Jan	10	(Fri)	06:13		06:35	112		12:28	62S		18:21	248		18:43		
2025	Jan	11	(Sat)	06:13		06:36	112		12:28	62S		18:21	248		18:44		
2025	Jan	12	(Sun)	06:13		06:36	112		12:29	62S		18:22	248		18:44		
2025	Jan	13	(Mon)	06:14		06:36	112		12:29	63S		18:22	249		18:45		
2025	Jan	14	(Tue)	06:14		06:36	111		12:30	63S		18:23	249		18:45		
2025	Jan	15	(Wed)	06:14		06:37	111		12:30	63S		18:23	249		18:46		
2025	Jan	16	(Thu)	06:15		06:37	111		12:30	63S		18:24	249		18:46		
2025	Jan	17	(Fri)	06:15		06:37	111		12:31	63S		18:24	249		18:46		
2025	Jan	18	(Sat)	06:15		06:37	111		12:31	64S		18:25	250		18:47		
2025	Jan	19	(Sun)	06:15		06:38	110		12:31	64S		18:25	250		18:47		
2025	Jan	20	(Mon)	06:16		06:38	110		12:32	64S		18:25	250		18:48		
2025	Jan	21	(Tue)	06:16		06:38	110		12:32	64S		18:26	250		18:48		
2025	Jan	22	(Wed)	06:16		06:38	110		12:32	64S		18:26	250		18:48		
2025	Jan	23	(Thu)	06:16		06:38	109		12:32	65S		18:27	251		18:49		
2025	Jan	24	(Fri)	06:16		06:38	109		12:33	65S		18:27	251		18:49		
2025	Jan	25	(Sat)	06:17		06:38	109		12:33	65S		18:27	251		18:49		
2025	Jan	26	(Sun)	06:17		06:39	109		12:33	65S		18:28	251		18:50		
2025	Jan	27	(Mon)	06:17		06:39	108		12:33	66S		18:28	252		18:50		
2025	Jan	28	(Tue)	06:17		06:39	108		12:33	66S		18:28	252		18:50		
2025	Jan	29	(Wed)	06:17		06:39	108		12:34	66S		18:29	252		18:50		
2025	Jan	30	(Thu)	06:17		06:39	108		12:34	66S		18:29	252		18:51		
2025	Jan	31	(Fri)	06:17		06:39	107		12:34	67S		18:29	253		18:51		
2025	Feb	01	(Sat)	06:17		06:39	107		12:34	67S		18:29	253		18:51		
2025	Feb	02	(Sun)	06:17		06:39	107		12:34	67S		18:30	253		18:51		
2025	Feb	03	(Mon)	06:17		06:39	107		12:34	68S		18:30	254		18:52		
2025	Feb	04	(Tue)	06:17		06:39	106		12:34	68S		18:30	254		18:52		
2025	Feb	05	(Wed)	06:17		06:39	106		12:35	68S		18:30	254		18:52		
2025	Feb	06	(Thu)	06:17		06:39	106		12:35	68S		18:31	255		18:52		
2025	Feb	07	(Fri)	06:17		06:39	105		12:35	69S		18:31	255		18:52		
2025	Feb	08	(Sat)	06:17		06:38	105		12:35	69S		18:31	255		18:53		
2025	Feb	09	(Sun)	06:17		06:38	105		12:35	69S		18:31	255		18:53		
2025	Feb	10	(Mon)	06:17		06:38	104		12:35	70S		18:31	256		18:53		
2025	Feb	11	(Tue)	06:17		06:38	104		12:35	70S		18:32	256		18:53		

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

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

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

2025	Sep	16	(Tue)	05:50	06:11	87	12:15	87S	18:20	273	18:41
2025	Sep	17	(Wed)	05:50	06:11	88	12:15	86S	18:19	272	18:40
2025	Sep	18	(Thu)	05:50	06:11	88	12:15	86S	18:19	272	18:40
2025	Sep	19	(Fri)	05:50	06:10	88	12:14	85S	18:18	271	18:39
2025	Sep	20	(Sat)	05:49	06:10	89	12:14	85S	18:18	271	18:39
2025	Sep	21	(Sun)	05:49	06:10	89	12:14	85S	18:17	271	18:38
2025	Sep	22	(Mon)	05:49	06:10	90	12:13	84S	18:17	270	18:37
2025	Sep	23	(Tue)	05:49	06:10	90	12:13	84S	18:16	270	18:37
2025	Sep	24	(Wed)	05:49	06:10	90	12:13	83S	18:16	269	18:36
2025	Sep	25	(Thu)	05:49	06:09	91	12:12	83S	18:15	269	18:36
2025	Sep	26	(Fri)	05:48	06:09	91	12:12	83S	18:15	269	18:35
2025	Sep	27	(Sat)	05:48	06:09	92	12:12	82S	18:14	268	18:35
2025	Sep	28	(Sun)	05:48	06:09	92	12:11	82S	18:13	268	18:34
2025	Sep	29	(Mon)	05:48	06:09	92	12:11	82S	18:13	267	18:34
2025	Sep	30	(Tue)	05:48	06:09	93	12:11	81S	18:12	267	18:33
2025	Oct	01	(Wed)	05:48	06:08	93	12:10	81S	18:12	267	18:33
2025	Oct	02	(Thu)	05:48	06:08	94	12:10	80S	18:11	266	18:32
2025	Oct	03	(Fri)	05:47	06:08	94	12:10	80S	18:11	266	18:32
2025	Oct	04	(Sat)	05:47	06:08	94	12:09	80S	18:10	266	18:31
2025	Oct	05	(Sun)	05:47	06:08	95	12:09	79S	18:10	265	18:31
2025	Oct	06	(Mon)	05:47	06:08	95	12:09	79S	18:09	265	18:30
2025	Oct	07	(Tue)	05:47	06:08	95	12:08	78S	18:09	264	18:30
2025	Oct	08	(Wed)	05:47	06:08	96	12:08	78S	18:09	264	18:29
2025	Oct	09	(Thu)	05:47	06:08	96	12:08	78S	18:08	264	18:29
2025	Oct	10	(Fri)	05:46	06:07	97	12:08	77S	18:08	263	18:29
2025	Oct	11	(Sat)	05:46	06:07	97	12:07	77S	18:07	263	18:28
2025	Oct	12	(Sun)	05:46	06:07	97	12:07	77S	18:07	262	18:28
2025	Oct	13	(Mon)	05:46	06:07	98	12:07	76S	18:06	262	18:27
2025	Oct	14	(Tue)	05:46	06:07	98	12:07	76S	18:06	262	18:27
2025	Oct	15	(Wed)	05:46	06:07	98	12:06	75S	18:06	261	18:27
2025	Oct	16	(Thu)	05:46	06:07	99	12:06	75S	18:05	261	18:26
2025	Oct	17	(Fri)	05:46	06:07	99	12:06	75S	18:05	261	18:26
2025	Oct	18	(Sat)	05:46	06:07	100	12:06	74S	18:04	260	18:26
2025	Oct	19	(Sun)	05:46	06:07	100	12:06	74S	18:04	260	18:25
2025	Oct	20	(Mon)	05:46	06:07	100	12:05	74S	18:04	260	18:25
2025	Oct	21	(Tue)	05:46	06:07	101	12:05	73S	18:03	259	18:25
2025	Oct	22	(Wed)	05:46	06:07	101	12:05	73S	18:03	259	18:24
2025	Oct	23	(Thu)	05:46	06:07	101	12:05	73S	18:03	258	18:24
2025	Oct	24	(Fri)	05:46	06:07	102	12:05	72S	18:02	258	18:24
2025	Oct	25	(Sat)	05:46	06:07	102	12:05	72S	18:02	258	18:23
2025	Oct	26	(Sun)	05:46	06:07	102	12:05	71S	18:02	257	18:23
2025	Oct	27	(Mon)	05:46	06:07	103	12:04	71S	18:02	257	18:23
2025	Oct	28	(Tue)	05:46	06:07	103	12:04	71S	18:01	257	18:23
2025	Oct	29	(Wed)	05:46	06:07	103	12:04	70S	18:01	256	18:23
2025	Oct	30	(Thu)	05:46	06:07	104	12:04	70S	18:01	256	18:22
2025	Oct	31	(Fri)	05:46	06:08	104	12:04	70S	18:01	256	18:22
2025	Nov	01	(Sat)	05:46	06:08	104	12:04	70S	18:01	255	18:22
2025	Nov	02	(Sun)	05:46	06:08	105	12:04	69S	18:00	255	18:22
2025	Nov	03	(Mon)	05:46	06:08	105	12:04	69S	18:00	255	18:22
2025	Nov	04	(Tue)	05:47	06:08	105	12:04	69S	18:00	254	18:22
2025	Nov	05	(Wed)	05:47	06:08	106	12:04	68S	18:00	254	18:22
2025	Nov	06	(Thu)	05:47	06:08	106	12:04	68S	18:00	254	18:22
2025	Nov	07	(Fri)	05:47	06:09	106	12:04	68S	18:00	254	18:21
2025	Nov	08	(Sat)	05:47	06:09	107	12:04	67S	18:00	253	18:21
2025	Nov	09	(Sun)	05:47	06:09	107	12:04	67S	18:00	253	18:21
2025	Nov	10	(Mon)	05:48	06:09	107	12:04	67S	18:00	253	18:21
2025	Nov	11	(Tue)	05:48	06:09	107	12:05	67S	18:00	252	18:21
2025	Nov	12	(Wed)	05:48	06:10	108	12:05	66S	18:00	252	18:21
2025	Nov	13	(Thu)	05:48	06:10	108	12:05	66S	18:00	252	18:21
2025	Nov	14	(Fri)	05:48	06:10	108	12:05	66S	18:00	252	18:22
2025	Nov	15	(Sat)	05:49	06:11	109	12:05	65S	18:00	251	18:22
2025	Nov	16	(Sun)	05:49	06:11	109	12:05	65S	18:00	251	18:22
2025	Nov	17	(Mon)	05:49	06:11	109	12:06	65S	18:00	251	18:22
2025	Nov	18	(Tue)	05:50	06:11	109	12:06	65S	18:00	251	18:22
2025	Nov	19	(Wed)	05:50	06:12	109	12:06	64S	18:00	250	18:22
2025	Nov	20	(Thu)	05:50	06:12	110	12:06	64S	18:00	250	18:22
2025	Nov	21	(Fri)	05:50	06:13	110	12:06	64S	18:00	250	18:22
2025	Nov	22	(Sat)	05:51	06:13	110	12:07	64S	18:00	250	18:23
2025	Nov	23	(Sun)	05:51	06:13	110	12:07	64S	18:01	250	18:23
2025	Nov	24	(Mon)	05:51	06:14	111	12:07	63S	18:01	249	18:23
2025	Nov	25	(Tue)	05:52	06:14	111	12:08	63S	18:01	249	18:23
2025	Nov	26	(Wed)	05:52	06:14	111	12:08	63S	18:01	249	18:23

2025	Nov	27	(Thu)	05:53	06:15	111	12:08	63S	18:01	249	18:24
2025	Nov	28	(Fri)	05:53	06:15	111	12:09	63S	18:02	249	18:24
2025	Nov	29	(Sat)	05:53	06:16	112	12:09	62S	18:02	248	18:24
2025	Nov	30	(Sun)	05:54	06:16	112	12:09	62S	18:02	248	18:25
2025	Dec	01	(Mon)	05:54	06:17	112	12:10	62S	18:02	248	18:25
2025	Dec	02	(Tue)	05:55	06:17	112	12:10	62S	18:03	248	18:25
2025	Dec	03	(Wed)	05:55	06:18	112	12:10	62S	18:03	248	18:26
2025	Dec	04	(Thu)	05:56	06:18	112	12:11	62S	18:03	248	18:26
2025	Dec	05	(Fri)	05:56	06:18	112	12:11	62S	18:04	248	18:26
2025	Dec	06	(Sat)	05:56	06:19	113	12:12	61S	18:04	247	18:27
2025	Dec	07	(Sun)	05:57	06:19	113	12:12	61S	18:05	247	18:27
2025	Dec	08	(Mon)	05:57	06:20	113	12:12	61S	18:05	247	18:27
2025	Dec	09	(Tue)	05:58	06:20	113	12:13	61S	18:05	247	18:28
2025	Dec	10	(Wed)	05:58	06:21	113	12:13	61S	18:06	247	18:28
2025	Dec	11	(Thu)	05:59	06:21	113	12:14	61S	18:06	247	18:29
2025	Dec	12	(Fri)	05:59	06:22	113	12:14	61S	18:07	247	18:29
2025	Dec	13	(Sat)	06:00	06:22	113	12:15	61S	18:07	247	18:30
2025	Dec	14	(Sun)	06:00	06:23	113	12:15	61S	18:07	247	18:30
2025	Dec	15	(Mon)	06:01	06:23	113	12:16	61S	18:08	247	18:30
2025	Dec	16	(Tue)	06:01	06:24	113	12:16	61S	18:08	247	18:31
2025	Dec	17	(Wed)	06:02	06:24	113	12:17	61S	18:09	247	18:31
2025	Dec	18	(Thu)	06:02	06:25	113	12:17	61S	18:09	247	18:32
2025	Dec	19	(Fri)	06:03	06:25	113	12:18	61S	18:10	247	18:32
2025	Dec	20	(Sat)	06:03	06:26	113	12:18	61S	18:10	247	18:33
2025	Dec	21	(Sun)	06:04	06:26	114	12:19	61S	18:11	246	18:33
2025	Dec	22	(Mon)	06:04	06:27	114	12:19	61S	18:11	246	18:34
2025	Dec	23	(Tue)	06:05	06:27	113	12:20	61S	18:12	247	18:34
2025	Dec	24	(Wed)	06:05	06:28	113	12:20	61S	18:12	247	18:35
2025	Dec	25	(Thu)	06:06	06:28	113	12:21	61S	18:13	247	18:35
2025	Dec	26	(Fri)	06:06	06:29	113	12:21	61S	18:13	247	18:36
2025	Dec	27	(Sat)	06:07	06:29	113	12:22	61S	18:14	247	18:36
2025	Dec	28	(Sun)	06:07	06:30	113	12:22	61S	18:14	247	18:37
2025	Dec	29	(Mon)	06:08	06:30	113	12:23	61S	18:15	247	18:37
2025	Dec	30	(Tue)	06:08	06:31	113	12:23	61S	18:15	247	18:38
2025	Dec	31	(Wed)	06:09	06:31	113	12:24	61S	18:16	247	18:38

Moon

Saturn

Location: E 99°51'28.8", N 6°41'38.4", 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	°	h	m	°
2025	Jan	01	(Wed)	07:39	116		19:39	246	
2025	Jan	02	(Thu)	08:32	112		20:36	250	
2025	Jan	03	(Fri)	09:21	107		21:30	256	
2025	Jan	04	(Sat)	10:08	101		22:21	262	
2025	Jan	05	(Sun)	10:52	94		23:12	269	
2025	Jan	06	(Mon)	11:36	87				
2025	Jan	07	(Tue)	12:20	81		00:02	276	
2025	Jan	08	(Wed)	13:07	74		00:54	283	
2025	Jan	09	(Thu)	13:57	69		01:49	289	
2025	Jan	10	(Fri)	14:52	64		02:47	294	
2025	Jan	11	(Sat)	15:51	62		03:48	297	
2025	Jan	12	(Sun)	16:52	61		04:51	299	
2025	Jan	13	(Mon)	17:53	63		05:52	298	
2025	Jan	14	(Tue)	18:51	66	00:21	06:48	296	71N
2025	Jan	15	(Wed)	19:45	70	01:17	07:40	292	74N
2025	Jan	16	(Thu)	20:35	75	02:07	08:27	287	79N
2025	Jan	17	(Fri)	21:21	81	02:53	09:09	282	84N
2025	Jan	18	(Sat)	22:04	87	03:35	09:48	276	90N
2025	Jan	19	(Sun)	22:47	93	04:15	10:25	270	85S
2025	Jan	20	(Mon)	23:29	99	04:55	11:01	264	79S
2025	Jan	21	(Tue)			05:34	11:38	258	74S
2025	Jan	22	(Wed)	00:12	104	06:15	12:17	253	68S
2025	Jan	23	(Thu)	00:57	109	06:58	12:59	249	64S
2025	Jan	24	(Fri)	01:46	113	07:45	13:44	245	60S
2025	Jan	25	(Sat)	02:37	117	08:36	14:35	242	57S

2025	Jan	26	(Sun)	03:32	118	09:31	55S	15:29	241
2025	Jan	27	(Mon)	04:29	119	10:28	55S	16:27	242
2025	Jan	28	(Tue)	05:26	117	11:26	57S	17:26	244
2025	Jan	29	(Wed)	06:21	114	12:22	61S	18:24	248
2025	Jan	30	(Thu)	07:13	109	13:16	66S	19:20	254
2025	Jan	31	(Fri)	08:02	103	14:08	72S	20:14	260
2025	Feb	01	(Sat)	08:48	97	14:57	79S	21:07	267
2025	Feb	02	(Sun)	09:33	89	15:45	86S	21:59	274
2025	Feb	03	(Mon)	10:18	82	16:34	88N	22:51	281
2025	Feb	04	(Tue)	11:05	76	17:24	82N	23:45	287
2025	Feb	05	(Wed)	11:54	70	18:17	76N		
2025	Feb	06	(Thu)	12:47	65	19:14	72N	00:42	293
2025	Feb	07	(Fri)	13:44	62	20:13	69N	01:41	296
2025	Feb	08	(Sat)	14:43	61	21:13	68N	02:42	298
2025	Feb	09	(Sun)	15:43	62	22:12	70N	03:42	299
2025	Feb	10	(Mon)	16:41	64	23:07	73N	04:40	297
2025	Feb	11	(Tue)	17:36	68	23:59	77N	05:32	294
2025	Feb	12	(Wed)	18:27	73			06:20	289
2025	Feb	13	(Thu)	19:14	79	00:46	82N	07:03	284
2025	Feb	14	(Fri)	19:58	85	01:29	88N	07:43	278
2025	Feb	15	(Sat)	20:41	91	02:11	88S	08:21	272
2025	Feb	16	(Sun)	21:23	97	02:50	82S	08:58	266
2025	Feb	17	(Mon)	22:06	102	03:30	76S	09:35	261
2025	Feb	18	(Tue)	22:50	107	04:10	70S	10:13	255
2025	Feb	19	(Wed)	23:37	112	04:52	65S	10:53	250
2025	Feb	20	(Thu)			05:37	61S	11:36	246
2025	Feb	21	(Fri)	00:27	115	06:26	58S	12:24	243
2025	Feb	22	(Sat)	01:20	118	07:18	55S	13:16	241
2025	Feb	23	(Sun)	02:15	119	08:13	55S	14:11	241
2025	Feb	24	(Mon)	03:11	118	09:10	56S	15:09	243
2025	Feb	25	(Tue)	04:06	116	10:06	59S	16:07	246
2025	Feb	26	(Wed)	05:00	112	11:02	63S	17:05	251
2025	Feb	27	(Thu)	05:50	106	11:55	69S	18:00	257
2025	Feb	28	(Fri)	06:39	100	12:46	76S	18:55	264
2025	Mar	01	(Sat)	07:25	93	13:36	83S	19:48	271
2025	Mar	02	(Sun)	08:12	85	14:26	91S	20:42	278
2025	Mar	03	(Mon)	08:59	78	15:17	84N	21:37	285
2025	Mar	04	(Tue)	09:49	72	16:11	78N	22:35	291
2025	Mar	05	(Wed)	10:42	67	17:08	73N	23:35	296
2025	Mar	06	(Thu)	11:39	63	18:07	70N		
2025	Mar	07	(Fri)	12:38	61	19:08	68N	00:37	298
2025	Mar	08	(Sat)	13:38	61	20:07	69N	01:37	299
2025	Mar	09	(Sun)	14:36	63	21:03	71N	02:35	298
2025	Mar	10	(Mon)	15:31	67	21:55	75N	03:29	295
2025	Mar	11	(Tue)	16:22	71	22:42	80N	04:17	291
2025	Mar	12	(Wed)	17:10	77	23:26	85N	05:01	286
2025	Mar	13	(Thu)	17:54	82			05:42	280
2025	Mar	14	(Fri)	18:37	88	00:08	90S	06:20	275
2025	Mar	15	(Sat)	19:20	94	00:48	84S	06:56	269
2025	Mar	16	(Sun)	20:02	100	01:27	78S	07:33	263
2025	Mar	17	(Mon)	20:46	106	02:07	72S	08:11	257
2025	Mar	18	(Tue)	21:32	110	02:48	67S	08:50	252
2025	Mar	19	(Wed)	22:20	114	03:32	62S	09:32	248
2025	Mar	20	(Thu)	23:11	117	04:19	59S	10:17	244
2025	Mar	21	(Fri)			05:09	56S	11:07	242
2025	Mar	22	(Sat)	00:04	119	06:02	55S	12:00	241
2025	Mar	23	(Sun)	00:59	119	06:57	55S	12:55	242
2025	Mar	24	(Mon)	01:53	117	07:52	57S	13:52	244
2025	Mar	25	(Tue)	02:46	114	08:47	61S	14:48	248
2025	Mar	26	(Wed)	03:37	109	09:39	66S	15:44	253
2025	Mar	27	(Thu)	04:25	103	10:31	72S	16:38	260
2025	Mar	28	(Fri)	05:13	96	11:21	79S	17:32	267
2025	Mar	29	(Sat)	05:59	89	12:12	87S	18:26	275
2025	Mar	30	(Sun)	06:47	82	13:04	87N	19:22	282
2025	Mar	31	(Mon)	07:37	75	13:58	80N	20:21	289
2025	Apr	01	(Tue)	08:31	69	14:56	75N	21:22	294
2025	Apr	02	(Wed)	09:28	64	15:56	71N	22:26	297
2025	Apr	03	(Thu)	10:29	62	16:59	69N	23:29	299
2025	Apr	04	(Fri)	11:30	61	18:00	69N		
2025	Apr	05	(Sat)	12:30	63	18:58	70N	00:29	298
2025	Apr	06	(Sun)	13:27	66	19:52	74N	01:25	296
2025	Apr	07	(Mon)	14:19	70	20:41	78N	02:15	292

2025 Apr 08 (Tue)	15:08 75	21:25 84N	03:01 288
2025 Apr 09 (Wed)	15:53 81	22:07 89N	03:42 282
2025 Apr 10 (Thu)	16:36 86	22:47 86S	04:20 276
2025 Apr 11 (Fri)	17:18 92	23:26 80S	04:57 271
2025 Apr 12 (Sat)	18:00 98		05:33 265
2025 Apr 13 (Sun)	18:43 104	00:06 74S	06:10 259
2025 Apr 14 (Mon)	19:28 109	00:47 69S	06:49 254
2025 Apr 15 (Tue)	20:16 113	01:30 64S	07:30 249
2025 Apr 16 (Wed)	21:06 116	02:15 60S	08:14 245
2025 Apr 17 (Thu)	21:58 118	03:04 57S	09:02 243
2025 Apr 18 (Fri)	22:52 119	03:56 55S	09:53 241
2025 Apr 19 (Sat)	23:45 118	04:49 55S	10:47 241
2025 Apr 20 (Sun)		05:43 56S	11:42 243
2025 Apr 21 (Mon)	00:37 115	06:37 59S	12:37 246
2025 Apr 22 (Tue)	01:27 111	07:29 63S	13:31 251
2025 Apr 23 (Wed)	02:15 106	08:19 69S	14:24 257
2025 Apr 24 (Thu)	03:01 100	09:08 76S	15:16 263
2025 Apr 25 (Fri)	03:47 93	09:57 83S	16:09 271
2025 Apr 26 (Sat)	04:33 86	10:47 90S	17:03 278
2025 Apr 27 (Sun)	05:22 78	11:40 84N	18:01 285
2025 Apr 28 (Mon)	06:14 72	12:37 77N	19:02 291
2025 Apr 29 (Tue)	07:11 66	13:38 72N	20:06 296
2025 Apr 30 (Wed)	08:12 63	14:42 69N	21:12 298
2025 May 01 (Thu)	09:16 61	15:46 68N	22:17 299
2025 May 02 (Fri)	10:19 62	16:48 70N	23:16 297
2025 May 03 (Sat)	11:19 64	17:45 73N	
2025 May 04 (Sun)	12:14 68	18:37 77N	00:10 294
2025 May 05 (Mon)	13:05 73	19:24 82N	00:58 289
2025 May 06 (Tue)	13:51 79	20:07 88N	01:41 284
2025 May 07 (Wed)	14:35 85	20:47 88S	02:20 278
2025 May 08 (Thu)	15:17 91	21:26 82S	02:58 272
2025 May 09 (Fri)	15:59 96	22:05 76S	03:34 266
2025 May 10 (Sat)	16:42 102	22:46 70S	04:10 261
2025 May 11 (Sun)	17:26 107	23:28 65S	04:48 255
2025 May 12 (Mon)	18:13 112		05:29 251
2025 May 13 (Tue)	19:02 115	00:13 61S	06:12 246
2025 May 14 (Wed)	19:54 118	01:01 58S	06:59 243
2025 May 15 (Thu)	20:47 119	01:52 56S	07:50 242
2025 May 16 (Fri)	21:41 118	02:45 55S	08:43 241
2025 May 17 (Sat)	22:33 116	03:39 56S	09:37 243
2025 May 18 (Sun)	23:23 113	04:32 58S	10:32 245
2025 May 19 (Mon)		05:23 62S	11:25 249
2025 May 20 (Tue)	00:10 108	06:13 67S	12:17 255
2025 May 21 (Wed)	00:55 102	07:00 73S	13:07 261
2025 May 22 (Thu)	01:39 96	07:48 80S	13:58 268
2025 May 23 (Fri)	02:23 89	08:36 87S	14:49 275
2025 May 24 (Sat)	03:09 82	09:25 87N	15:44 282
2025 May 25 (Sun)	03:58 75	10:19 81N	16:42 288
2025 May 26 (Mon)	04:52 69	11:17 75N	17:44 294
2025 May 27 (Tue)	05:51 64	12:20 71N	18:50 297
2025 May 28 (Wed)	06:55 62	13:25 69N	19:56 299
2025 May 29 (Thu)	08:00 61	14:30 69N	21:00 298
2025 May 30 (Fri)	09:04 63	15:32 71N	21:59 295
2025 May 31 (Sat)	10:03 67	16:27 75N	22:50 291
2025 Jun 01 (Sun)	10:57 71	17:18 80N	23:37 286
2025 Jun 02 (Mon)	11:46 77	18:03 86N	
2025 Jun 03 (Tue)	12:31 83	18:45 90S	00:18 280
2025 Jun 04 (Wed)	13:15 89	19:25 84S	00:57 274
2025 Jun 05 (Thu)	13:57 95	20:04 78S	01:33 268
2025 Jun 06 (Fri)	14:39 100	20:44 72S	02:10 263
2025 Jun 07 (Sat)	15:23 106	21:25 67S	02:47 257
2025 Jun 08 (Sun)	16:09 110	22:09 62S	03:27 252
2025 Jun 09 (Mon)	16:57 114	22:57 59S	04:09 248
2025 Jun 10 (Tue)	17:49 117	23:47 56S	04:55 244
2025 Jun 11 (Wed)	18:42 118		05:45 242
2025 Jun 12 (Thu)	19:36 118	00:40 55S	06:38 241
2025 Jun 13 (Fri)	20:29 117	01:34 56S	07:33 242
2025 Jun 14 (Sat)	21:20 114	02:28 58S	08:28 244
2025 Jun 15 (Sun)	22:08 109	03:20 61S	09:21 248
2025 Jun 16 (Mon)	22:54 104	04:10 66S	10:13 253
2025 Jun 17 (Tue)	23:37 98	04:58 71S	11:04 259
2025 Jun 18 (Wed)		05:44 78S	11:53 266

2025 Jun 19 (Thu)	00:20 91	06:30 85S	12:43 272
2025 Jun 20 (Fri)	01:04 84	07:18 90N	13:34 279
2025 Jun 21 (Sat)	01:50 77	08:08 83N	14:28 286
2025 Jun 22 (Sun)	02:40 71	09:02 77N	15:27 292
2025 Jun 23 (Mon)	03:35 66	10:02 72N	16:30 296
2025 Jun 24 (Tue)	04:35 63	11:05 69N	17:35 298
2025 Jun 25 (Wed)	05:39 61	12:10 69N	18:41 298
2025 Jun 26 (Thu)	06:44 62	13:14 70N	19:42 297
2025 Jun 27 (Fri)	07:47 65	14:13 73N	20:38 293
2025 Jun 28 (Sat)	08:44 69	15:07 78N	21:28 288
2025 Jun 29 (Sun)	09:36 75	15:55 83N	22:12 282
2025 Jun 30 (Mon)	10:24 80	16:39 89N	22:53 276
2025 Jul 01 (Tue)	11:09 87	17:21 86S	23:31 270
2025 Jul 02 (Wed)	11:53 93	18:01 80S	
2025 Jul 03 (Thu)	12:35 98	18:41 74S	00:08 264
2025 Jul 04 (Fri)	13:19 104	19:22 69S	00:45 259
2025 Jul 05 (Sat)	14:04 109	20:05 64S	01:24 254
2025 Jul 06 (Sun)	14:51 113	20:51 60S	02:05 249
2025 Jul 07 (Mon)	15:42 116	21:40 57S	02:50 245
2025 Jul 08 (Tue)	16:34 118	22:33 55S	03:38 243
2025 Jul 09 (Wed)	17:29 119	23:27 55S	04:30 241
2025 Jul 10 (Thu)	18:23 118		05:25 242
2025 Jul 11 (Fri)	19:15 115	00:22 57S	06:21 244
2025 Jul 12 (Sat)	20:05 111	01:15 60S	07:16 247
2025 Jul 13 (Sun)	20:52 106	02:07 64S	08:09 252
2025 Jul 14 (Mon)	21:36 99	02:56 70S	09:01 257
2025 Jul 15 (Tue)	22:19 93	03:43 76S	09:51 264
2025 Jul 16 (Wed)	23:02 86	04:29 83S	10:40 271
2025 Jul 17 (Thu)	23:47 79	05:15 90S	11:30 277
2025 Jul 18 (Fri)		06:04 85N	12:23 284
2025 Jul 19 (Sat)	00:34 73	06:55 79N	13:18 290
2025 Jul 20 (Sun)	01:26 68	07:51 74N	14:18 295
2025 Jul 21 (Mon)	02:23 64	08:51 70N	15:21 298
2025 Jul 22 (Tue)	03:24 62	09:54 69N	16:25 299
2025 Jul 23 (Wed)	04:28 62	10:58 69N	17:27 298
2025 Jul 24 (Thu)	05:30 64	11:58 72N	18:25 295
2025 Jul 25 (Fri)	06:30 67	12:54 76N	19:17 290
2025 Jul 26 (Sat)	07:25 72	13:45 81N	20:04 285
2025 Jul 27 (Sun)	08:15 78	14:32 87N	20:46 279
2025 Jul 28 (Mon)	09:02 84	15:15 88S	21:26 273
2025 Jul 29 (Tue)	09:46 90	15:56 82S	22:04 267
2025 Jul 30 (Wed)	10:29 96	16:36 76S	22:41 261
2025 Jul 31 (Thu)	11:13 102	17:17 71S	23:20 255
2025 Aug 01 (Fri)	11:57 107	17:59 65S	
2025 Aug 02 (Sat)	12:44 112	18:44 61S	00:00 251
2025 Aug 03 (Sun)	13:33 115	19:32 58S	00:43 247
2025 Aug 04 (Mon)	14:25 118	20:23 56S	01:30 243
2025 Aug 05 (Tue)	15:19 119	21:16 55S	02:21 242
2025 Aug 06 (Wed)	16:13 118	22:11 56S	03:14 241
2025 Aug 07 (Thu)	17:06 116	23:06 58S	04:10 243
2025 Aug 08 (Fri)	17:58 113	23:59 62S	05:06 245
2025 Aug 09 (Sat)	18:46 108		06:01 250
2025 Aug 10 (Sun)	19:33 102	00:50 67S	06:54 255
2025 Aug 11 (Mon)	20:17 95	01:38 74S	07:45 262
2025 Aug 12 (Tue)	21:01 88	02:26 81S	08:36 268
2025 Aug 13 (Wed)	21:45 81	03:13 88S	09:27 275
2025 Aug 14 (Thu)	22:32 75	04:01 87N	10:19 282
2025 Aug 15 (Fri)	23:22 69	04:52 80N	11:14 288
2025 Aug 16 (Sat)		05:46 75N	12:12 293
2025 Aug 17 (Sun)	00:17 65	06:44 71N	13:13 297
2025 Aug 18 (Mon)	01:16 62	07:45 69N	14:16 299
2025 Aug 19 (Tue)	02:18 61	08:48 69N	15:17 298
2025 Aug 20 (Wed)	03:19 63	09:48 70N	16:15 296
2025 Aug 21 (Thu)	04:19 66	10:45 74N	17:09 292
2025 Aug 22 (Fri)	05:15 70	11:37 79N	17:57 287
2025 Aug 23 (Sat)	06:06 75	12:24 84N	18:41 282
2025 Aug 24 (Sun)	06:54 81	13:08 90N	19:21 275
2025 Aug 25 (Mon)	07:39 88	13:50 85S	20:00 269
2025 Aug 26 (Tue)	08:23 94	14:31 79S	20:38 263
2025 Aug 27 (Wed)	09:07 100	15:12 73S	21:16 258
2025 Aug 28 (Thu)	09:51 105	15:54 67S	21:55 252
2025 Aug 29 (Fri)	10:37 110	16:38 63S	22:37 248

2025 Aug 30 (Sat)	11:25 114	17:24 59S	23:22 244
2025 Aug 31 (Sun)	12:15 117	18:13 56S	
2025 Sep 01 (Mon)	13:08 119	19:05 55S	00:11 242
2025 Sep 02 (Tue)	14:01 119	19:59 55S	01:03 241
2025 Sep 03 (Wed)	14:55 117	20:53 57S	01:57 242
2025 Sep 04 (Thu)	15:47 114	21:47 60S	02:53 244
2025 Sep 05 (Fri)	16:36 110	22:39 65S	03:48 247
2025 Sep 06 (Sat)	17:24 105	23:28 71S	04:42 252
2025 Sep 07 (Sun)	18:10 98		05:35 259
2025 Sep 08 (Mon)	18:55 91	00:17 78S	06:26 265
2025 Sep 09 (Tue)	19:40 84	01:06 85S	07:18 273
2025 Sep 10 (Wed)	20:27 77	01:55 89N	08:11 280
2025 Sep 11 (Thu)	21:18 71	02:46 83N	09:07 286
2025 Sep 12 (Fri)	22:12 66	03:41 77N	10:05 292
2025 Sep 13 (Sat)	23:10 63	04:39 72N	11:07 296
2025 Sep 14 (Sun)		05:40 69N	12:09 298
2025 Sep 15 (Mon)	00:12 61	06:42 68N	13:12 299
2025 Sep 16 (Tue)	01:13 62	07:42 70N	14:10 297
2025 Sep 17 (Wed)	02:13 64	08:39 73N	15:04 294
2025 Sep 18 (Thu)	03:09 68	09:32 77N	15:53 289
2025 Sep 19 (Fri)	04:01 73	10:20 82N	16:38 284
2025 Sep 20 (Sat)	04:49 79	11:05 88N	17:19 278
2025 Sep 21 (Sun)	05:35 85	11:47 87S	17:57 272
2025 Sep 22 (Mon)	06:19 91	12:28 81S	18:35 266
2025 Sep 23 (Tue)	07:02 97	13:08 75S	19:13 260
2025 Sep 24 (Wed)	07:46 103	13:50 69S	19:52 254
2025 Sep 25 (Thu)	08:31 108	14:33 64S	20:33 250
2025 Sep 26 (Fri)	09:18 113	15:18 60S	21:17 246
2025 Sep 27 (Sat)	10:08 116	16:06 57S	22:04 243
2025 Sep 28 (Sun)	10:59 118	16:56 55S	22:54 241
2025 Sep 29 (Mon)	11:51 119	17:49 55S	23:46 241
2025 Sep 30 (Tue)	12:44 118	18:42 56S	
2025 Oct 01 (Wed)	13:35 116	19:35 59S	00:40 243
2025 Oct 02 (Thu)	14:25 112	20:26 63S	01:34 246
2025 Oct 03 (Fri)	15:13 107	21:16 68S	02:28 250
2025 Oct 04 (Sat)	15:59 101	22:05 74S	03:20 255
2025 Oct 05 (Sun)	16:44 95	22:53 81S	04:12 262
2025 Oct 06 (Mon)	17:29 87	23:42 88S	05:04 269
2025 Oct 07 (Tue)	18:16 80		05:57 276
2025 Oct 08 (Wed)	19:07 73	00:34 86N	06:53 283
2025 Oct 09 (Thu)	20:01 68	01:28 79N	07:52 290
2025 Oct 10 (Fri)	21:00 64	02:27 74N	08:54 295
2025 Oct 11 (Sat)	22:03 62	03:29 70N	09:59 298
2025 Oct 12 (Sun)	23:06 62	04:33 69N	11:04 299
2025 Oct 13 (Mon)		05:36 69N	12:05 298
2025 Oct 14 (Tue)	00:07 64	06:35 72N	13:01 295
2025 Oct 15 (Wed)	01:05 67	07:29 76N	13:52 291
2025 Oct 16 (Thu)	01:58 72	08:18 81N	14:37 285
2025 Oct 17 (Fri)	02:47 77	09:03 86N	15:18 280
2025 Oct 18 (Sat)	03:32 83	09:46 89S	15:57 274
2025 Oct 19 (Sun)	04:16 89	10:26 83S	16:35 268
2025 Oct 20 (Mon)	04:59 95	11:07 77S	17:12 262
2025 Oct 21 (Tue)	05:43 101	11:47 71S	17:51 256
2025 Oct 22 (Wed)	06:27 106	12:30 66S	18:31 251
2025 Oct 23 (Thu)	07:14 111	13:14 62S	19:14 247
2025 Oct 24 (Fri)	08:02 115	14:01 58S	19:59 244
2025 Oct 25 (Sat)	08:53 117	14:51 56S	20:48 242
2025 Oct 26 (Sun)	09:45 119	15:42 55S	21:40 241
2025 Oct 27 (Mon)	10:37 118	16:34 56S	22:32 242
2025 Oct 28 (Tue)	11:28 117	17:26 58S	23:25 244
2025 Oct 29 (Wed)	12:17 114	18:17 61S	
2025 Oct 30 (Thu)	13:04 110	19:06 65S	00:17 248
2025 Oct 31 (Fri)	13:49 104	19:53 71S	01:09 253
2025 Nov 01 (Sat)	14:33 98	20:40 78S	01:59 259
2025 Nov 02 (Sun)	15:17 91	21:28 85S	02:49 265
2025 Nov 03 (Mon)	16:02 84	22:17 90N	03:40 272
2025 Nov 04 (Tue)	16:51 77	23:10 83N	04:34 280
2025 Nov 05 (Wed)	17:44 71		05:32 286
2025 Nov 06 (Thu)	18:42 66	00:08 76N	06:34 292
2025 Nov 07 (Fri)	19:46 62	01:10 72N	07:39 296
2025 Nov 08 (Sat)	20:51 61	02:16 69N	08:47 298
2025 Nov 09 (Sun)	21:56 63	03:22 69N	09:52 298

2025 Nov 10 (Mon)	22:57 66	04:25 71N	10:53 296
2025 Nov 11 (Tue)	23:53 70	05:23 74N	11:47 292
2025 Nov 12 (Wed)		06:15 79N	12:35 287
2025 Nov 13 (Thu)	00:44 76	07:02 85N	13:18 281
2025 Nov 14 (Fri)	01:31 82	07:45 91N	13:58 275
2025 Nov 15 (Sat)	02:15 88	08:26 85S	14:36 269
2025 Nov 16 (Sun)	02:58 94	09:06 79S	15:13 263
2025 Nov 17 (Mon)	03:41 99	09:47 73S	15:51 258
2025 Nov 18 (Tue)	04:25 105	10:28 68S	16:30 253
2025 Nov 19 (Wed)	05:11 110	11:12 63S	17:12 248
2025 Nov 20 (Thu)	05:59 114	11:58 59S	17:57 245
2025 Nov 21 (Fri)	06:49 116	12:47 57S	18:45 243
2025 Nov 22 (Sat)	07:40 118	13:38 55S	19:35 242
2025 Nov 23 (Sun)	08:32 118	14:30 55S	20:28 242
2025 Nov 24 (Mon)	09:24 117	15:22 57S	21:20 244
2025 Nov 25 (Tue)	10:13 115	16:12 60S	22:12 247
2025 Nov 26 (Wed)	11:00 111	17:00 64S	23:02 251
2025 Nov 27 (Thu)	11:44 106	17:47 69S	23:51 257
2025 Nov 28 (Fri)	12:27 100	18:32 75S	
2025 Nov 29 (Sat)	13:09 94	19:18 82S	00:40 263
2025 Nov 30 (Sun)	13:52 87	20:05 89S	01:28 269
2025 Dec 01 (Mon)	14:37 80	20:54 86N	02:19 276
2025 Dec 02 (Tue)	15:26 74	21:48 80N	03:13 283
2025 Dec 03 (Wed)	16:21 68	22:47 74N	04:11 289
2025 Dec 04 (Thu)	17:22 64	23:51 70N	05:14 294
2025 Dec 05 (Fri)	18:28 62		06:22 298
2025 Dec 06 (Sat)	19:35 62	00:59 69N	07:30 298
2025 Dec 07 (Sun)	20:41 64	02:06 70N	08:35 297
2025 Dec 08 (Mon)	21:41 68	03:08 73N	09:35 294
2025 Dec 09 (Tue)	22:36 74	04:05 77N	10:27 289
2025 Dec 10 (Wed)	23:26 80	04:56 83N	11:13 283
2025 Dec 11 (Thu)		05:41 89N	11:55 277
2025 Dec 12 (Fri)	00:12 86	06:24 87S	12:35 271
2025 Dec 13 (Sat)	00:56 92	07:05 81S	13:12 265
2025 Dec 14 (Sun)	01:39 98	07:45 75S	13:50 259
2025 Dec 15 (Mon)	02:23 103	08:27 69S	14:29 254
2025 Dec 16 (Tue)	03:08 108	09:09 64S	15:10 250
2025 Dec 17 (Wed)	03:55 112	09:55 60S	15:54 246
2025 Dec 18 (Thu)	04:44 116	10:43 57S	16:41 243
2025 Dec 19 (Fri)	05:36 118	11:33 56S	17:31 242
2025 Dec 20 (Sat)	06:28 118	12:26 55S	18:23 242
2025 Dec 21 (Sun)	07:20 118	13:18 56S	19:16 243
2025 Dec 22 (Mon)	08:10 116	14:09 59S	20:09 246
2025 Dec 23 (Tue)	08:58 112	14:58 63S	21:00 250
2025 Dec 24 (Wed)	09:43 107	15:45 68S	21:49 255
2025 Dec 25 (Thu)	10:25 102	16:30 73S	22:36 261
2025 Dec 26 (Fri)	11:07 96	17:14 80S	23:24 267
2025 Dec 27 (Sat)	11:48 89	17:59 86S	
2025 Dec 28 (Sun)	12:31 83	18:46 88N	00:12 274
2025 Dec 29 (Mon)	13:16 76	19:35 82N	01:02 281
2025 Dec 30 (Tue)	14:06 70	20:30 76N	01:56 287
2025 Dec 31 (Wed)	15:02 66	21:30 72N	02:55 292