

Sun

Ranong

Location: E 98°27'00.0", N 9°49'58.8", 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)	05:54	06:43 113		12:30 58S	18:17 247		19:06
2025 Jan 02 (Thu)	05:54	06:43 113		12:30 58S	18:17 247		19:06
2025 Jan 03 (Fri)	05:55	06:44 113		12:31 58S	18:18 247		19:07
2025 Jan 04 (Sat)	05:55	06:44 113		12:31 58S	18:18 247		19:07
2025 Jan 05 (Sun)	05:55	06:44 113		12:32 58S	18:19 247		19:08
2025 Jan 06 (Mon)	05:56	06:45 113		12:32 58S	18:19 247		19:08
2025 Jan 07 (Tue)	05:56	06:45 113		12:32 59S	18:20 247		19:09
2025 Jan 08 (Wed)	05:57	06:45 112		12:33 59S	18:20 248		19:09
2025 Jan 09 (Thu)	05:57	06:46 112		12:33 59S	18:21 248		19:10
2025 Jan 10 (Fri)	05:57	06:46 112		12:34 59S	18:22 248		19:10
2025 Jan 11 (Sat)	05:58	06:46 112		12:34 59S	18:22 248		19:11
2025 Jan 12 (Sun)	05:58	06:47 112		12:35 59S	18:23 248		19:11
2025 Jan 13 (Mon)	05:58	06:47 112		12:35 59S	18:23 248		19:12
2025 Jan 14 (Tue)	05:59	06:47 111		12:35 60S	18:24 249		19:12
2025 Jan 15 (Wed)	05:59	06:47 111		12:36 60S	18:24 249		19:12
2025 Jan 16 (Thu)	05:59	06:47 111		12:36 60S	18:25 249		19:13
2025 Jan 17 (Fri)	05:59	06:48 111		12:36 60S	18:25 249		19:13
2025 Jan 18 (Sat)	06:00	06:48 111		12:37 60S	18:25 249		19:14
2025 Jan 19 (Sun)	06:00	06:48 110		12:37 61S	18:26 250		19:14
2025 Jan 20 (Mon)	06:00	06:48 110		12:37 61S	18:26 250		19:14
2025 Jan 21 (Tue)	06:00	06:48 110		12:37 61S	18:27 250		19:15
2025 Jan 22 (Wed)	06:00	06:48 110		12:38 61S	18:27 250		19:15
2025 Jan 23 (Thu)	06:01	06:48 110		12:38 61S	18:28 251		19:16
2025 Jan 24 (Fri)	06:01	06:48 109		12:38 62S	18:28 251		19:16
2025 Jan 25 (Sat)	06:01	06:49 109		12:38 62S	18:29 251		19:16
2025 Jan 26 (Sun)	06:01	06:49 109		12:39 62S	18:29 251		19:17
2025 Jan 27 (Mon)	06:01	06:49 109		12:39 62S	18:29 252		19:17
2025 Jan 28 (Tue)	06:01	06:49 108		12:39 63S	18:30 252		19:17
2025 Jan 29 (Wed)	06:01	06:49 108		12:39 63S	18:30 252		19:18
2025 Jan 30 (Thu)	06:01	06:49 108		12:39 63S	18:31 252		19:18
2025 Jan 31 (Fri)	06:01	06:48 107		12:40 64S	18:31 253		19:18
2025 Feb 01 (Sat)	06:01	06:48 107		12:40 64S	18:31 253		19:18
2025 Feb 02 (Sun)	06:01	06:48 107		12:40 64S	18:32 253		19:19
2025 Feb 03 (Mon)	06:01	06:48 107		12:40 64S	18:32 254		19:19
2025 Feb 04 (Tue)	06:01	06:48 106		12:40 65S	18:32 254		19:19
2025 Feb 05 (Wed)	06:01	06:48 106		12:40 65S	18:32 254		19:19
2025 Feb 06 (Thu)	06:01	06:48 106		12:40 65S	18:33 254		19:20
2025 Feb 07 (Fri)	06:01	06:48 105		12:40 66S	18:33 255		19:20
2025 Feb 08 (Sat)	06:01	06:47 105		12:40 66S	18:33 255		19:20
2025 Feb 09 (Sun)	06:01	06:47 105		12:40 66S	18:34 255		19:20
2025 Feb 10 (Mon)	06:00	06:47 104		12:40 67S	18:34 256		19:20
2025 Feb 11 (Tue)	06:00	06:47 104		12:40 67S	18:34 256		19:21
2025 Feb 12 (Wed)	06:00	06:47 104		12:40 67S	18:34 256		19:21
2025 Feb 13 (Thu)	06:00	06:46 103		12:40 68S	18:35 257		19:21
2025 Feb 14 (Fri)	06:00	06:46 103		12:40 68S	18:35 257		19:21
2025 Feb 15 (Sat)	05:59	06:46 103		12:40 68S	18:35 257		19:21
2025 Feb 16 (Sun)	05:59	06:45 102		12:40 69S	18:35 258		19:21
2025 Feb 17 (Mon)	05:59	06:45 102		12:40 69S	18:35 258		19:21
2025 Feb 18 (Tue)	05:59	06:45 102		12:40 69S	18:35 259		19:22
2025 Feb 19 (Wed)	05:58	06:44 101		12:40 70S	18:36 259		19:22
2025 Feb 20 (Thu)	05:58	06:44 101		12:40 70S	18:36 259		19:22
2025 Feb 21 (Fri)	05:58	06:44 101		12:40 70S	18:36 260		19:22
2025 Feb 22 (Sat)	05:57	06:43 100		12:40 71S	18:36 260		19:22
2025 Feb 23 (Sun)	05:57	06:43 100		12:40 71S	18:36 260		19:22
2025 Feb 24 (Mon)	05:57	06:43 99		12:39 72S	18:36 261		19:22

2025	Feb	25	(Tue)	05:56	06:42	99	12:39	72S	18:36	261	19:22
2025	Feb	26	(Wed)	05:56	06:42	99	12:39	72S	18:36	261	19:22
2025	Feb	27	(Thu)	05:56	06:41	98	12:39	73S	18:37	262	19:22
2025	Feb	28	(Fri)	05:55	06:41	98	12:39	73S	18:37	262	19:22
2025	Mar	01	(Sat)	05:55	06:40	98	12:39	73S	18:37	263	19:22
2025	Mar	02	(Sun)	05:54	06:40	97	12:38	74S	18:37	263	19:22
2025	Mar	03	(Mon)	05:54	06:40	97	12:38	74S	18:37	263	19:22
2025	Mar	04	(Tue)	05:54	06:39	96	12:38	75S	18:37	264	19:22
2025	Mar	05	(Wed)	05:53	06:39	96	12:38	75S	18:37	264	19:22
2025	Mar	06	(Thu)	05:53	06:38	96	12:37	75S	18:37	265	19:22
2025	Mar	07	(Fri)	05:52	06:38	95	12:37	76S	18:37	265	19:22
2025	Mar	08	(Sat)	05:52	06:37	95	12:37	76S	18:37	265	19:22
2025	Mar	09	(Sun)	05:51	06:37	94	12:37	76S	18:37	266	19:22
2025	Mar	10	(Mon)	05:51	06:36	94	12:36	77S	18:37	266	19:22
2025	Mar	11	(Tue)	05:50	06:35	94	12:36	77S	18:37	267	19:22
2025	Mar	12	(Wed)	05:50	06:35	93	12:36	78S	18:37	267	19:22
2025	Mar	13	(Thu)	05:49	06:34	93	12:36	78S	18:37	267	19:22
2025	Mar	14	(Fri)	05:48	06:34	92	12:35	78S	18:37	268	19:22
2025	Mar	15	(Sat)	05:48	06:33	92	12:35	79S	18:37	268	19:22
2025	Mar	16	(Sun)	05:47	06:33	92	12:35	79S	18:37	269	19:22
2025	Mar	17	(Mon)	05:47	06:32	91	12:35	80S	18:37	269	19:22
2025	Mar	18	(Tue)	05:46	06:32	91	12:34	80S	18:37	269	19:22
2025	Mar	19	(Wed)	05:46	06:31	90	12:34	80S	18:37	270	19:22
2025	Mar	20	(Thu)	05:45	06:30	90	12:34	81S	18:37	270	19:22
2025	Mar	21	(Fri)	05:45	06:30	90	12:33	81S	18:37	271	19:22
2025	Mar	22	(Sat)	05:44	06:29	89	12:33	82S	18:37	271	19:22
2025	Mar	23	(Sun)	05:43	06:29	89	12:33	82S	18:37	271	19:22
2025	Mar	24	(Mon)	05:43	06:28	88	12:32	82S	18:37	272	19:22
2025	Mar	25	(Tue)	05:42	06:28	88	12:32	83S	18:37	272	19:22
2025	Mar	26	(Wed)	05:42	06:27	88	12:32	83S	18:37	273	19:22
2025	Mar	27	(Thu)	05:41	06:26	87	12:32	84S	18:37	273	19:22
2025	Mar	28	(Fri)	05:40	06:26	87	12:31	84S	18:37	273	19:22
2025	Mar	29	(Sat)	05:40	06:25	86	12:31	84S	18:37	274	19:22
2025	Mar	30	(Sun)	05:39	06:25	86	12:31	85S	18:37	274	19:22
2025	Mar	31	(Mon)	05:39	06:24	86	12:30	85S	18:37	275	19:22
2025	Apr	01	(Tue)	05:38	06:24	85	12:30	86S	18:37	275	19:22
2025	Apr	02	(Wed)	05:37	06:23	85	12:30	86S	18:37	275	19:22
2025	Apr	03	(Thu)	05:37	06:22	84	12:29	86S	18:37	276	19:22
2025	Apr	04	(Fri)	05:36	06:22	84	12:29	87S	18:37	276	19:22
2025	Apr	05	(Sat)	05:36	06:21	84	12:29	87S	18:37	277	19:22
2025	Apr	06	(Sun)	05:35	06:21	83	12:29	87S	18:37	277	19:22
2025	Apr	07	(Mon)	05:34	06:20	83	12:28	88S	18:37	277	19:22
2025	Apr	08	(Tue)	05:34	06:20	83	12:28	88S	18:37	278	19:22
2025	Apr	09	(Wed)	05:33	06:19	82	12:28	89S	18:37	278	19:22
2025	Apr	10	(Thu)	05:33	06:19	82	12:28	89S	18:37	278	19:22
2025	Apr	11	(Fri)	05:32	06:18	81	12:27	89S	18:37	279	19:23
2025	Apr	12	(Sat)	05:32	06:18	81	12:27	90S	18:37	279	19:23
2025	Apr	13	(Sun)	05:31	06:17	81	12:27	90S	18:37	280	19:23
2025	Apr	14	(Mon)	05:30	06:17	80	12:26	90S	18:37	280	19:23
2025	Apr	15	(Tue)	05:30	06:16	80	12:26	91N	18:37	280	19:23
2025	Apr	16	(Wed)	05:29	06:16	80	12:26	90N	18:37	281	19:23
2025	Apr	17	(Thu)	05:29	06:15	79	12:26	90N	18:37	281	19:23
2025	Apr	18	(Fri)	05:28	06:15	79	12:26	90N	18:37	281	19:23
2025	Apr	19	(Sat)	05:28	06:14	79	12:25	89N	18:37	282	19:23
2025	Apr	20	(Sun)	05:27	06:14	78	12:25	89N	18:37	282	19:23
2025	Apr	21	(Mon)	05:27	06:13	78	12:25	89N	18:37	282	19:23
2025	Apr	22	(Tue)	05:26	06:13	77	12:25	88N	18:37	283	19:24
2025	Apr	23	(Wed)	05:26	06:12	77	12:25	88N	18:37	283	19:24
2025	Apr	24	(Thu)	05:25	06:12	77	12:24	88N	18:37	283	19:24
2025	Apr	25	(Fri)	05:25	06:11	76	12:24	87N	18:37	284	19:24
2025	Apr	26	(Sat)	05:24	06:11	76	12:24	87N	18:37	284	19:24
2025	Apr	27	(Sun)	05:24	06:11	76	12:24	87N	18:37	284	19:24
2025	Apr	28	(Mon)	05:23	06:10	75	12:24	86N	18:37	285	19:24
2025	Apr	29	(Tue)	05:23	06:10	75	12:24	86N	18:37	285	19:25
2025	Apr	30	(Wed)	05:22	06:09	75	12:23	86N	18:37	285	19:25
2025	May	01	(Thu)	05:22	06:09	75	12:23	85N	18:38	286	19:25
2025	May	02	(Fri)	05:21	06:09	74	12:23	85N	18:38	286	19:25

2025 May 03 (Sat)	05:21	06:08	74	12:23	85N	18:38	286	19:25
2025 May 04 (Sun)	05:21	06:08	74	12:23	84N	18:38	287	19:26
2025 May 05 (Mon)	05:20	06:08	73	12:23	84N	18:38	287	19:26
2025 May 06 (Tue)	05:20	06:08	73	12:23	84N	18:38	287	19:26
2025 May 07 (Wed)	05:19	06:07	73	12:23	84N	18:38	287	19:26
2025 May 08 (Thu)	05:19	06:07	72	12:23	83N	18:39	288	19:26
2025 May 09 (Fri)	05:19	06:07	72	12:23	83N	18:39	288	19:27
2025 May 10 (Sat)	05:18	06:06	72	12:23	83N	18:39	288	19:27
2025 May 11 (Sun)	05:18	06:06	72	12:23	83N	18:39	288	19:27
2025 May 12 (Mon)	05:18	06:06	71	12:23	82N	18:39	289	19:27
2025 May 13 (Tue)	05:18	06:06	71	12:23	82N	18:39	289	19:28
2025 May 14 (Wed)	05:17	06:06	71	12:23	82N	18:40	289	19:28
2025 May 15 (Thu)	05:17	06:05	71	12:23	82N	18:40	289	19:28
2025 May 16 (Fri)	05:17	06:05	70	12:23	81N	18:40	290	19:29
2025 May 17 (Sat)	05:16	06:05	70	12:23	81N	18:40	290	19:29
2025 May 18 (Sun)	05:16	06:05	70	12:23	81N	18:40	290	19:29
2025 May 19 (Mon)	05:16	06:05	70	12:23	81N	18:41	290	19:29
2025 May 20 (Tue)	05:16	06:05	70	12:23	81N	18:41	291	19:30
2025 May 21 (Wed)	05:16	06:05	69	12:23	80N	18:41	291	19:30
2025 May 22 (Thu)	05:16	06:04	69	12:23	80N	18:41	291	19:30
2025 May 23 (Fri)	05:15	06:04	69	12:23	80N	18:42	291	19:31
2025 May 24 (Sat)	05:15	06:04	69	12:23	80N	18:42	291	19:31
2025 May 25 (Sun)	05:15	06:04	69	12:23	80N	18:42	292	19:31
2025 May 26 (Mon)	05:15	06:04	68	12:23	79N	18:42	292	19:32
2025 May 27 (Tue)	05:15	06:04	68	12:23	79N	18:43	292	19:32
2025 May 28 (Wed)	05:15	06:04	68	12:23	79N	18:43	292	19:32
2025 May 29 (Thu)	05:15	06:04	68	12:24	79N	18:43	292	19:33
2025 May 30 (Fri)	05:15	06:04	68	12:24	79N	18:43	292	19:33
2025 May 31 (Sat)	05:15	06:04	68	12:24	79N	18:44	292	19:33
2025 Jun 01 (Sun)	05:15	06:04	67	12:24	78N	18:44	293	19:34
2025 Jun 02 (Mon)	05:15	06:04	67	12:24	78N	18:44	293	19:34
2025 Jun 03 (Tue)	05:15	06:04	67	12:24	78N	18:44	293	19:34
2025 Jun 04 (Wed)	05:15	06:04	67	12:25	78N	18:45	293	19:34
2025 Jun 05 (Thu)	05:15	06:05	67	12:25	78N	18:45	293	19:35
2025 Jun 06 (Fri)	05:15	06:05	67	12:25	78N	18:45	293	19:35
2025 Jun 07 (Sat)	05:15	06:05	67	12:25	78N	18:46	293	19:35
2025 Jun 08 (Sun)	05:15	06:05	67	12:25	78N	18:46	293	19:36
2025 Jun 09 (Mon)	05:15	06:05	67	12:25	78N	18:46	293	19:36
2025 Jun 10 (Tue)	05:15	06:05	66	12:26	78N	18:46	294	19:36
2025 Jun 11 (Wed)	05:15	06:05	66	12:26	77N	18:47	294	19:37
2025 Jun 12 (Thu)	05:15	06:05	66	12:26	77N	18:47	294	19:37
2025 Jun 13 (Fri)	05:15	06:06	66	12:26	77N	18:47	294	19:37
2025 Jun 14 (Sat)	05:16	06:06	66	12:26	77N	18:47	294	19:37
2025 Jun 15 (Sun)	05:16	06:06	66	12:27	77N	18:48	294	19:38
2025 Jun 16 (Mon)	05:16	06:06	66	12:27	77N	18:48	294	19:38
2025 Jun 17 (Tue)	05:16	06:06	66	12:27	77N	18:48	294	19:38
2025 Jun 18 (Wed)	05:16	06:06	66	12:27	77N	18:48	294	19:38
2025 Jun 19 (Thu)	05:16	06:07	66	12:28	77N	18:49	294	19:39
2025 Jun 20 (Fri)	05:17	06:07	66	12:28	77N	18:49	294	19:39
2025 Jun 21 (Sat)	05:17	06:07	66	12:28	77N	18:49	294	19:39
2025 Jun 22 (Sun)	05:17	06:07	66	12:28	77N	18:49	294	19:39
2025 Jun 23 (Mon)	05:17	06:07	66	12:28	77N	18:49	294	19:40
2025 Jun 24 (Tue)	05:18	06:08	66	12:29	77N	18:50	294	19:40
2025 Jun 25 (Wed)	05:18	06:08	66	12:29	77N	18:50	294	19:40
2025 Jun 26 (Thu)	05:18	06:08	66	12:29	77N	18:50	294	19:40
2025 Jun 27 (Fri)	05:18	06:08	66	12:29	77N	18:50	294	19:40
2025 Jun 28 (Sat)	05:19	06:09	66	12:30	77N	18:50	294	19:40
2025 Jun 29 (Sun)	05:19	06:09	66	12:30	77N	18:50	294	19:41
2025 Jun 30 (Mon)	05:19	06:09	66	12:30	77N	18:51	294	19:41
2025 Jul 01 (Tue)	05:19	06:09	66	12:30	77N	18:51	294	19:41
2025 Jul 02 (Wed)	05:20	06:10	66	12:30	78N	18:51	294	19:41
2025 Jul 03 (Thu)	05:20	06:10	67	12:30	78N	18:51	293	19:41
2025 Jul 04 (Fri)	05:20	06:10	67	12:31	78N	18:51	293	19:41
2025 Jul 05 (Sat)	05:21	06:10	67	12:31	78N	18:51	293	19:41
2025 Jul 06 (Sun)	05:21	06:11	67	12:31	78N	18:51	293	19:41
2025 Jul 07 (Mon)	05:21	06:11	67	12:31	78N	18:51	293	19:41
2025 Jul 08 (Tue)	05:21	06:11	67	12:31	78N	18:51	293	19:41

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

2025 Sep 14 (Sun)	05:31	06:16	86	12:22	84S	18:27	273	19:13
2025 Sep 15 (Mon)	05:31	06:16	87	12:21	84S	18:27	273	19:12
2025 Sep 16 (Tue)	05:31	06:16	87	12:21	83S	18:26	273	19:11
2025 Sep 17 (Wed)	05:30	06:16	88	12:21	83S	18:25	272	19:11
2025 Sep 18 (Thu)	05:30	06:16	88	12:20	83S	18:25	272	19:10
2025 Sep 19 (Fri)	05:30	06:16	88	12:20	82S	18:24	271	19:10
2025 Sep 20 (Sat)	05:30	06:16	89	12:20	82S	18:24	271	19:09
2025 Sep 21 (Sun)	05:30	06:16	89	12:19	81S	18:23	271	19:08
2025 Sep 22 (Mon)	05:30	06:15	90	12:19	81S	18:22	270	19:08
2025 Sep 23 (Tue)	05:30	06:15	90	12:19	81S	18:22	270	19:07
2025 Sep 24 (Wed)	05:30	06:15	90	12:18	80S	18:21	269	19:06
2025 Sep 25 (Thu)	05:30	06:15	91	12:18	80S	18:20	269	19:06
2025 Sep 26 (Fri)	05:30	06:15	91	12:18	80S	18:20	269	19:05
2025 Sep 27 (Sat)	05:30	06:15	92	12:17	79S	18:19	268	19:05
2025 Sep 28 (Sun)	05:30	06:15	92	12:17	79S	18:19	268	19:04
2025 Sep 29 (Mon)	05:30	06:15	92	12:17	78S	18:18	267	19:03
2025 Sep 30 (Tue)	05:30	06:15	93	12:16	78S	18:17	267	19:03
2025 Oct 01 (Wed)	05:29	06:15	93	12:16	78S	18:17	267	19:02
2025 Oct 02 (Thu)	05:29	06:15	93	12:16	77S	18:16	266	19:02
2025 Oct 03 (Fri)	05:29	06:15	94	12:15	77S	18:16	266	19:01
2025 Oct 04 (Sat)	05:29	06:15	94	12:15	76S	18:15	266	19:00
2025 Oct 05 (Sun)	05:29	06:15	95	12:15	76S	18:15	265	19:00
2025 Oct 06 (Mon)	05:29	06:15	95	12:14	76S	18:14	265	18:59
2025 Oct 07 (Tue)	05:29	06:15	95	12:14	75S	18:13	264	18:59
2025 Oct 08 (Wed)	05:29	06:15	96	12:14	75S	18:13	264	18:58
2025 Oct 09 (Thu)	05:29	06:15	96	12:13	75S	18:12	264	18:58
2025 Oct 10 (Fri)	05:29	06:15	97	12:13	74S	18:12	263	18:57
2025 Oct 11 (Sat)	05:29	06:15	97	12:13	74S	18:11	263	18:57
2025 Oct 12 (Sun)	05:29	06:15	97	12:13	73S	18:11	262	18:56
2025 Oct 13 (Mon)	05:29	06:15	98	12:12	73S	18:10	262	18:56
2025 Oct 14 (Tue)	05:29	06:15	98	12:12	73S	18:10	262	18:55
2025 Oct 15 (Wed)	05:29	06:15	99	12:12	72S	18:09	261	18:55
2025 Oct 16 (Thu)	05:29	06:15	99	12:12	72S	18:09	261	18:55
2025 Oct 17 (Fri)	05:29	06:15	99	12:12	72S	18:08	261	18:54
2025 Oct 18 (Sat)	05:29	06:15	100	12:11	71S	18:08	260	18:54
2025 Oct 19 (Sun)	05:29	06:15	100	12:11	71S	18:07	260	18:53
2025 Oct 20 (Mon)	05:29	06:15	100	12:11	70S	18:07	259	18:53
2025 Oct 21 (Tue)	05:29	06:15	101	12:11	70S	18:07	259	18:53
2025 Oct 22 (Wed)	05:29	06:15	101	12:11	70S	18:06	259	18:52
2025 Oct 23 (Thu)	05:29	06:15	101	12:11	69S	18:06	258	18:52
2025 Oct 24 (Fri)	05:29	06:15	102	12:10	69S	18:05	258	18:52
2025 Oct 25 (Sat)	05:29	06:15	102	12:10	69S	18:05	258	18:51
2025 Oct 26 (Sun)	05:29	06:16	102	12:10	68S	18:05	257	18:51
2025 Oct 27 (Mon)	05:29	06:16	103	12:10	68S	18:04	257	18:51
2025 Oct 28 (Tue)	05:29	06:16	103	12:10	68S	18:04	257	18:50
2025 Oct 29 (Wed)	05:30	06:16	104	12:10	67S	18:04	256	18:50
2025 Oct 30 (Thu)	05:30	06:16	104	12:10	67S	18:03	256	18:50
2025 Oct 31 (Fri)	05:30	06:16	104	12:10	67S	18:03	256	18:50
2025 Nov 01 (Sat)	05:30	06:17	105	12:10	66S	18:03	255	18:50
2025 Nov 02 (Sun)	05:30	06:17	105	12:10	66S	18:03	255	18:49
2025 Nov 03 (Mon)	05:30	06:17	105	12:10	66S	18:02	255	18:49
2025 Nov 04 (Tue)	05:30	06:17	105	12:10	65S	18:02	254	18:49
2025 Nov 05 (Wed)	05:31	06:17	106	12:10	65S	18:02	254	18:49
2025 Nov 06 (Thu)	05:31	06:18	106	12:10	65S	18:02	254	18:49
2025 Nov 07 (Fri)	05:31	06:18	106	12:10	65S	18:02	253	18:49
2025 Nov 08 (Sat)	05:31	06:18	107	12:10	64S	18:02	253	18:49
2025 Nov 09 (Sun)	05:31	06:19	107	12:10	64S	18:01	253	18:49
2025 Nov 10 (Mon)	05:32	06:19	107	12:10	64S	18:01	253	18:49
2025 Nov 11 (Tue)	05:32	06:19	108	12:10	63S	18:01	252	18:49
2025 Nov 12 (Wed)	05:32	06:19	108	12:10	63S	18:01	252	18:49
2025 Nov 13 (Thu)	05:32	06:20	108	12:10	63S	18:01	252	18:49
2025 Nov 14 (Fri)	05:33	06:20	108	12:11	63S	18:01	252	18:49
2025 Nov 15 (Sat)	05:33	06:20	109	12:11	62S	18:01	251	18:49
2025 Nov 16 (Sun)	05:33	06:21	109	12:11	62S	18:01	251	18:49
2025 Nov 17 (Mon)	05:33	06:21	109	12:11	62S	18:01	251	18:49
2025 Nov 18 (Tue)	05:34	06:22	109	12:11	62S	18:01	251	18:49
2025 Nov 19 (Wed)	05:34	06:22	110	12:12	61S	18:01	250	18:49

2025 Nov 20 (Thu)	05:34	06:22	110	12:12	61S	18:01	250	18:49
2025 Nov 21 (Fri)	05:35	06:23	110	12:12	61S	18:01	250	18:49
2025 Nov 22 (Sat)	05:35	06:23	110	12:12	61S	18:01	250	18:49
2025 Nov 23 (Sun)	05:36	06:24	111	12:13	60S	18:01	249	18:50
2025 Nov 24 (Mon)	05:36	06:24	111	12:13	60S	18:02	249	18:50
2025 Nov 25 (Tue)	05:36	06:25	111	12:13	60S	18:02	249	18:50
2025 Nov 26 (Wed)	05:37	06:25	111	12:13	60S	18:02	249	18:50
2025 Nov 27 (Thu)	05:37	06:25	111	12:14	60S	18:02	249	18:51
2025 Nov 28 (Fri)	05:37	06:26	111	12:14	60S	18:02	248	18:51
2025 Nov 29 (Sat)	05:38	06:26	112	12:14	59S	18:03	248	18:51
2025 Nov 30 (Sun)	05:38	06:27	112	12:15	59S	18:03	248	18:51
2025 Dec 01 (Mon)	05:39	06:27	112	12:15	59S	18:03	248	18:52
2025 Dec 02 (Tue)	05:39	06:28	112	12:16	59S	18:03	248	18:52
2025 Dec 03 (Wed)	05:40	06:28	112	12:16	59S	18:04	248	18:52
2025 Dec 04 (Thu)	05:40	06:29	112	12:16	59S	18:04	248	18:53
2025 Dec 05 (Fri)	05:41	06:29	113	12:17	58S	18:04	247	18:53
2025 Dec 06 (Sat)	05:41	06:30	113	12:17	58S	18:04	247	18:53
2025 Dec 07 (Sun)	05:42	06:30	113	12:18	58S	18:05	247	18:54
2025 Dec 08 (Mon)	05:42	06:31	113	12:18	58S	18:05	247	18:54
2025 Dec 09 (Tue)	05:42	06:31	113	12:19	58S	18:06	247	18:55
2025 Dec 10 (Wed)	05:43	06:32	113	12:19	58S	18:06	247	18:55
2025 Dec 11 (Thu)	05:43	06:32	113	12:19	58S	18:06	247	18:55
2025 Dec 12 (Fri)	05:44	06:33	113	12:20	58S	18:07	247	18:56
2025 Dec 13 (Sat)	05:44	06:34	113	12:20	58S	18:07	247	18:56
2025 Dec 14 (Sun)	05:45	06:34	113	12:21	58S	18:08	247	18:57
2025 Dec 15 (Mon)	05:45	06:35	113	12:21	58S	18:08	246	18:57
2025 Dec 16 (Tue)	05:46	06:35	114	12:22	58S	18:08	246	18:58
2025 Dec 17 (Wed)	05:46	06:36	114	12:22	58S	18:09	246	18:58
2025 Dec 18 (Thu)	05:47	06:36	114	12:23	57S	18:09	246	18:59
2025 Dec 19 (Fri)	05:47	06:37	114	12:23	57S	18:10	246	18:59
2025 Dec 20 (Sat)	05:48	06:37	114	12:24	57S	18:10	246	19:00
2025 Dec 21 (Sun)	05:49	06:38	114	12:24	57S	18:11	246	19:00
2025 Dec 22 (Mon)	05:49	06:38	114	12:25	57S	18:11	246	19:01
2025 Dec 23 (Tue)	05:49	06:39	114	12:25	57S	18:12	246	19:01
2025 Dec 24 (Wed)	05:50	06:39	114	12:26	57S	18:12	246	19:02
2025 Dec 25 (Thu)	05:50	06:40	114	12:26	57S	18:13	246	19:02
2025 Dec 26 (Fri)	05:51	06:40	114	12:27	58S	18:13	246	19:03
2025 Dec 27 (Sat)	05:51	06:41	114	12:27	58S	18:14	246	19:03
2025 Dec 28 (Sun)	05:52	06:41	113	12:28	58S	18:14	247	19:04
2025 Dec 29 (Mon)	05:52	06:41	113	12:28	58S	18:15	247	19:04
2025 Dec 30 (Tue)	05:53	06:42	113	12:29	58S	18:16	247	19:05
2025 Dec 31 (Wed)	05:53	06:42	113	12:29	58S	18:16	247	19:05

Sun

Ranong

Location: E 98°27'00.0", N 9°49'58.8", 0m
(Longitude referred to Greenwich meridian)

Time Zone: 7h 00m east of Greenwich

Date (Zone)	Begin Civil Twilight h m	Rise h m °	Az. °	Transit Alt. h m °	Set h m °	Az. °	End Civil Twilight h m	
2025 Jan 01 (Wed)	06:20	06:43	113	12:30	58S	18:17	247	18:39
2025 Jan 02 (Thu)	06:21	06:43	113	12:30	58S	18:17	247	18:40
2025 Jan 03 (Fri)	06:21	06:44	113	12:31	58S	18:18	247	18:41
2025 Jan 04 (Sat)	06:21	06:44	113	12:31	58S	18:18	247	18:41
2025 Jan 05 (Sun)	06:22	06:44	113	12:32	58S	18:19	247	18:42
2025 Jan 06 (Mon)	06:22	06:45	113	12:32	58S	18:19	247	18:42
2025 Jan 07 (Tue)	06:22	06:45	113	12:32	59S	18:20	247	18:43
2025 Jan 08 (Wed)	06:23	06:45	112	12:33	59S	18:20	248	18:43
2025 Jan 09 (Thu)	06:23	06:46	112	12:33	59S	18:21	248	18:44
2025 Jan 10 (Fri)	06:23	06:46	112	12:34	59S	18:22	248	18:44
2025 Jan 11 (Sat)	06:24	06:46	112	12:34	59S	18:22	248	18:45
2025 Jan 12 (Sun)	06:24	06:47	112	12:35	59S	18:23	248	18:45

2025	Jan	13	(Mon)	06:24	06:47	112	12:35	59S	18:23	248	18:46
2025	Jan	14	(Tue)	06:25	06:47	111	12:35	60S	18:24	249	18:46
2025	Jan	15	(Wed)	06:25	06:47	111	12:36	60S	18:24	249	18:46
2025	Jan	16	(Thu)	06:25	06:47	111	12:36	60S	18:25	249	18:47
2025	Jan	17	(Fri)	06:25	06:48	111	12:36	60S	18:25	249	18:47
2025	Jan	18	(Sat)	06:25	06:48	111	12:37	60S	18:25	249	18:48
2025	Jan	19	(Sun)	06:26	06:48	110	12:37	61S	18:26	250	18:48
2025	Jan	20	(Mon)	06:26	06:48	110	12:37	61S	18:26	250	18:49
2025	Jan	21	(Tue)	06:26	06:48	110	12:37	61S	18:27	250	18:49
2025	Jan	22	(Wed)	06:26	06:48	110	12:38	61S	18:27	250	18:50
2025	Jan	23	(Thu)	06:26	06:48	110	12:38	61S	18:28	251	18:50
2025	Jan	24	(Fri)	06:26	06:48	109	12:38	62S	18:28	251	18:50
2025	Jan	25	(Sat)	06:26	06:49	109	12:38	62S	18:29	251	18:51
2025	Jan	26	(Sun)	06:26	06:49	109	12:39	62S	18:29	251	18:51
2025	Jan	27	(Mon)	06:26	06:49	109	12:39	62S	18:29	252	18:51
2025	Jan	28	(Tue)	06:27	06:49	108	12:39	63S	18:30	252	18:52
2025	Jan	29	(Wed)	06:27	06:49	108	12:39	63S	18:30	252	18:52
2025	Jan	30	(Thu)	06:27	06:49	108	12:39	63S	18:31	252	18:52
2025	Jan	31	(Fri)	06:27	06:48	107	12:40	64S	18:31	253	18:53
2025	Feb	01	(Sat)	06:27	06:48	107	12:40	64S	18:31	253	18:53
2025	Feb	02	(Sun)	06:26	06:48	107	12:40	64S	18:32	253	18:53
2025	Feb	03	(Mon)	06:26	06:48	107	12:40	64S	18:32	254	18:54
2025	Feb	04	(Tue)	06:26	06:48	106	12:40	65S	18:32	254	18:54
2025	Feb	05	(Wed)	06:26	06:48	106	12:40	65S	18:32	254	18:54
2025	Feb	06	(Thu)	06:26	06:48	106	12:40	65S	18:33	254	18:55
2025	Feb	07	(Fri)	06:26	06:48	105	12:40	66S	18:33	255	18:55
2025	Feb	08	(Sat)	06:26	06:47	105	12:40	66S	18:33	255	18:55
2025	Feb	09	(Sun)	06:26	06:47	105	12:40	66S	18:34	255	18:55
2025	Feb	10	(Mon)	06:25	06:47	104	12:40	67S	18:34	256	18:55
2025	Feb	11	(Tue)	06:25	06:47	104	12:40	67S	18:34	256	18:56
2025	Feb	12	(Wed)	06:25	06:47	104	12:40	67S	18:34	256	18:56
2025	Feb	13	(Thu)	06:25	06:46	103	12:40	68S	18:35	257	18:56
2025	Feb	14	(Fri)	06:25	06:46	103	12:40	68S	18:35	257	18:56
2025	Feb	15	(Sat)	06:24	06:46	103	12:40	68S	18:35	257	18:56
2025	Feb	16	(Sun)	06:24	06:45	102	12:40	69S	18:35	258	18:57
2025	Feb	17	(Mon)	06:24	06:45	102	12:40	69S	18:35	258	18:57
2025	Feb	18	(Tue)	06:23	06:45	102	12:40	69S	18:35	259	18:57
2025	Feb	19	(Wed)	06:23	06:44	101	12:40	70S	18:36	259	18:57
2025	Feb	20	(Thu)	06:23	06:44	101	12:40	70S	18:36	259	18:57
2025	Feb	21	(Fri)	06:22	06:44	101	12:40	70S	18:36	260	18:57
2025	Feb	22	(Sat)	06:22	06:43	100	12:40	71S	18:36	260	18:57
2025	Feb	23	(Sun)	06:22	06:43	100	12:40	71S	18:36	260	18:57
2025	Feb	24	(Mon)	06:21	06:43	99	12:39	72S	18:36	261	18:57
2025	Feb	25	(Tue)	06:21	06:42	99	12:39	72S	18:36	261	18:58
2025	Feb	26	(Wed)	06:21	06:42	99	12:39	72S	18:36	261	18:58
2025	Feb	27	(Thu)	06:20	06:41	98	12:39	73S	18:37	262	18:58
2025	Feb	28	(Fri)	06:20	06:41	98	12:39	73S	18:37	262	18:58
2025	Mar	01	(Sat)	06:19	06:40	98	12:39	73S	18:37	263	18:58
2025	Mar	02	(Sun)	06:19	06:40	97	12:38	74S	18:37	263	18:58
2025	Mar	03	(Mon)	06:18	06:40	97	12:38	74S	18:37	263	18:58
2025	Mar	04	(Tue)	06:18	06:39	96	12:38	75S	18:37	264	18:58
2025	Mar	05	(Wed)	06:17	06:39	96	12:38	75S	18:37	264	18:58
2025	Mar	06	(Thu)	06:17	06:38	96	12:37	75S	18:37	265	18:58
2025	Mar	07	(Fri)	06:16	06:38	95	12:37	76S	18:37	265	18:58
2025	Mar	08	(Sat)	06:16	06:37	95	12:37	76S	18:37	265	18:58
2025	Mar	09	(Sun)	06:15	06:37	94	12:37	76S	18:37	266	18:58
2025	Mar	10	(Mon)	06:15	06:36	94	12:36	77S	18:37	266	18:58
2025	Mar	11	(Tue)	06:14	06:35	94	12:36	77S	18:37	267	18:58
2025	Mar	12	(Wed)	06:14	06:35	93	12:36	78S	18:37	267	18:58
2025	Mar	13	(Thu)	06:13	06:34	93	12:36	78S	18:37	267	18:58
2025	Mar	14	(Fri)	06:13	06:34	92	12:35	78S	18:37	268	18:58
2025	Mar	15	(Sat)	06:12	06:33	92	12:35	79S	18:37	268	18:58
2025	Mar	16	(Sun)	06:12	06:33	92	12:35	79S	18:37	269	18:58
2025	Mar	17	(Mon)	06:11	06:32	91	12:35	80S	18:37	269	18:58
2025	Mar	18	(Tue)	06:11	06:32	91	12:34	80S	18:37	269	18:58
2025	Mar	19	(Wed)	06:10	06:31	90	12:34	80S	18:37	270	18:58
2025	Mar	20	(Thu)	06:09	06:30	90	12:34	81S	18:37	270	18:58

2025	Mar	21	(Fri)	06:09	06:30	90	12:33	81S	18:37	271	18:58
2025	Mar	22	(Sat)	06:08	06:29	89	12:33	82S	18:37	271	18:58
2025	Mar	23	(Sun)	06:08	06:29	89	12:33	82S	18:37	271	18:58
2025	Mar	24	(Mon)	06:07	06:28	88	12:32	82S	18:37	272	18:58
2025	Mar	25	(Tue)	06:07	06:28	88	12:32	83S	18:37	272	18:58
2025	Mar	26	(Wed)	06:06	06:27	88	12:32	83S	18:37	273	18:58
2025	Mar	27	(Thu)	06:05	06:26	87	12:32	84S	18:37	273	18:58
2025	Mar	28	(Fri)	06:05	06:26	87	12:31	84S	18:37	273	18:58
2025	Mar	29	(Sat)	06:04	06:25	86	12:31	84S	18:37	274	18:58
2025	Mar	30	(Sun)	06:04	06:25	86	12:31	85S	18:37	274	18:58
2025	Mar	31	(Mon)	06:03	06:24	86	12:30	85S	18:37	275	18:58
2025	Apr	01	(Tue)	06:03	06:24	85	12:30	86S	18:37	275	18:58
2025	Apr	02	(Wed)	06:02	06:23	85	12:30	86S	18:37	275	18:58
2025	Apr	03	(Thu)	06:01	06:22	84	12:29	86S	18:37	276	18:58
2025	Apr	04	(Fri)	06:01	06:22	84	12:29	87S	18:37	276	18:58
2025	Apr	05	(Sat)	06:00	06:21	84	12:29	87S	18:37	277	18:58
2025	Apr	06	(Sun)	06:00	06:21	83	12:29	87S	18:37	277	18:58
2025	Apr	07	(Mon)	05:59	06:20	83	12:28	88S	18:37	277	18:58
2025	Apr	08	(Tue)	05:59	06:20	83	12:28	88S	18:37	278	18:58
2025	Apr	09	(Wed)	05:58	06:19	82	12:28	89S	18:37	278	18:58
2025	Apr	10	(Thu)	05:57	06:19	82	12:28	89S	18:37	278	18:58
2025	Apr	11	(Fri)	05:57	06:18	81	12:27	89S	18:37	279	18:58
2025	Apr	12	(Sat)	05:56	06:18	81	12:27	90S	18:37	279	18:58
2025	Apr	13	(Sun)	05:56	06:17	81	12:27	90S	18:37	280	18:58
2025	Apr	14	(Mon)	05:55	06:17	80	12:26	90S	18:37	280	18:58
2025	Apr	15	(Tue)	05:55	06:16	80	12:26	91N	18:37	280	18:58
2025	Apr	16	(Wed)	05:54	06:16	80	12:26	90N	18:37	281	18:58
2025	Apr	17	(Thu)	05:54	06:15	79	12:26	90N	18:37	281	18:58
2025	Apr	18	(Fri)	05:53	06:15	79	12:26	90N	18:37	281	18:58
2025	Apr	19	(Sat)	05:53	06:14	79	12:25	89N	18:37	282	18:58
2025	Apr	20	(Sun)	05:52	06:14	78	12:25	89N	18:37	282	18:58
2025	Apr	21	(Mon)	05:52	06:13	78	12:25	89N	18:37	282	18:58
2025	Apr	22	(Tue)	05:51	06:13	77	12:25	88N	18:37	283	18:58
2025	Apr	23	(Wed)	05:51	06:12	77	12:25	88N	18:37	283	18:58
2025	Apr	24	(Thu)	05:50	06:12	77	12:24	88N	18:37	283	18:59
2025	Apr	25	(Fri)	05:50	06:11	76	12:24	87N	18:37	284	18:59
2025	Apr	26	(Sat)	05:49	06:11	76	12:24	87N	18:37	284	18:59
2025	Apr	27	(Sun)	05:49	06:11	76	12:24	87N	18:37	284	18:59
2025	Apr	28	(Mon)	05:49	06:10	75	12:24	86N	18:37	285	18:59
2025	Apr	29	(Tue)	05:48	06:10	75	12:24	86N	18:37	285	18:59
2025	Apr	30	(Wed)	05:48	06:09	75	12:23	86N	18:37	285	18:59
2025	May	01	(Thu)	05:47	06:09	75	12:23	85N	18:38	286	18:59
2025	May	02	(Fri)	05:47	06:09	74	12:23	85N	18:38	286	19:00
2025	May	03	(Sat)	05:47	06:08	74	12:23	85N	18:38	286	19:00
2025	May	04	(Sun)	05:46	06:08	74	12:23	84N	18:38	287	19:00
2025	May	05	(Mon)	05:46	06:08	73	12:23	84N	18:38	287	19:00
2025	May	06	(Tue)	05:46	06:08	73	12:23	84N	18:38	287	19:00
2025	May	07	(Wed)	05:45	06:07	73	12:23	84N	18:38	287	19:00
2025	May	08	(Thu)	05:45	06:07	72	12:23	83N	18:39	288	19:01
2025	May	09	(Fri)	05:45	06:07	72	12:23	83N	18:39	288	19:01
2025	May	10	(Sat)	05:44	06:06	72	12:23	83N	18:39	288	19:01
2025	May	11	(Sun)	05:44	06:06	72	12:23	83N	18:39	288	19:01
2025	May	12	(Mon)	05:44	06:06	71	12:23	82N	18:39	289	19:01
2025	May	13	(Tue)	05:44	06:06	71	12:23	82N	18:39	289	19:02
2025	May	14	(Wed)	05:43	06:06	71	12:23	82N	18:40	289	19:02
2025	May	15	(Thu)	05:43	06:05	71	12:23	82N	18:40	289	19:02
2025	May	16	(Fri)	05:43	06:05	70	12:23	81N	18:40	290	19:02
2025	May	17	(Sat)	05:43	06:05	70	12:23	81N	18:40	290	19:03
2025	May	18	(Sun)	05:43	06:05	70	12:23	81N	18:40	290	19:03
2025	May	19	(Mon)	05:42	06:05	70	12:23	81N	18:41	290	19:03
2025	May	20	(Tue)	05:42	06:05	70	12:23	81N	18:41	291	19:03
2025	May	21	(Wed)	05:42	06:05	69	12:23	80N	18:41	291	19:04
2025	May	22	(Thu)	05:42	06:04	69	12:23	80N	18:41	291	19:04
2025	May	23	(Fri)	05:42	06:04	69	12:23	80N	18:42	291	19:04
2025	May	24	(Sat)	05:42	06:04	69	12:23	80N	18:42	291	19:04
2025	May	25	(Sun)	05:42	06:04	69	12:23	80N	18:42	292	19:05
2025	May	26	(Mon)	05:42	06:04	68	12:23	79N	18:42	292	19:05

2025	May	27	(Tue)	05:42	06:04	68	12:23	79N	18:43	292	19:05
2025	May	28	(Wed)	05:41	06:04	68	12:23	79N	18:43	292	19:06
2025	May	29	(Thu)	05:41	06:04	68	12:24	79N	18:43	292	19:06
2025	May	30	(Fri)	05:41	06:04	68	12:24	79N	18:43	292	19:06
2025	May	31	(Sat)	05:41	06:04	68	12:24	79N	18:44	292	19:06
2025	Jun	01	(Sun)	05:41	06:04	67	12:24	78N	18:44	293	19:07
2025	Jun	02	(Mon)	05:41	06:04	67	12:24	78N	18:44	293	19:07
2025	Jun	03	(Tue)	05:42	06:04	67	12:24	78N	18:44	293	19:07
2025	Jun	04	(Wed)	05:42	06:04	67	12:25	78N	18:45	293	19:08
2025	Jun	05	(Thu)	05:42	06:05	67	12:25	78N	18:45	293	19:08
2025	Jun	06	(Fri)	05:42	06:05	67	12:25	78N	18:45	293	19:08
2025	Jun	07	(Sat)	05:42	06:05	67	12:25	78N	18:46	293	19:08
2025	Jun	08	(Sun)	05:42	06:05	67	12:25	78N	18:46	293	19:09
2025	Jun	09	(Mon)	05:42	06:05	67	12:25	78N	18:46	293	19:09
2025	Jun	10	(Tue)	05:42	06:05	66	12:26	78N	18:46	294	19:09
2025	Jun	11	(Wed)	05:42	06:05	66	12:26	77N	18:47	294	19:10
2025	Jun	12	(Thu)	05:42	06:05	66	12:26	77N	18:47	294	19:10
2025	Jun	13	(Fri)	05:42	06:06	66	12:26	77N	18:47	294	19:10
2025	Jun	14	(Sat)	05:43	06:06	66	12:26	77N	18:47	294	19:10
2025	Jun	15	(Sun)	05:43	06:06	66	12:27	77N	18:48	294	19:11
2025	Jun	16	(Mon)	05:43	06:06	66	12:27	77N	18:48	294	19:11
2025	Jun	17	(Tue)	05:43	06:06	66	12:27	77N	18:48	294	19:11
2025	Jun	18	(Wed)	05:43	06:06	66	12:27	77N	18:48	294	19:11
2025	Jun	19	(Thu)	05:44	06:07	66	12:28	77N	18:49	294	19:12
2025	Jun	20	(Fri)	05:44	06:07	66	12:28	77N	18:49	294	19:12
2025	Jun	21	(Sat)	05:44	06:07	66	12:28	77N	18:49	294	19:12
2025	Jun	22	(Sun)	05:44	06:07	66	12:28	77N	18:49	294	19:12
2025	Jun	23	(Mon)	05:44	06:07	66	12:28	77N	18:49	294	19:12
2025	Jun	24	(Tue)	05:45	06:08	66	12:29	77N	18:50	294	19:13
2025	Jun	25	(Wed)	05:45	06:08	66	12:29	77N	18:50	294	19:13
2025	Jun	26	(Thu)	05:45	06:08	66	12:29	77N	18:50	294	19:13
2025	Jun	27	(Fri)	05:45	06:08	66	12:29	77N	18:50	294	19:13
2025	Jun	28	(Sat)	05:46	06:09	66	12:30	77N	18:50	294	19:13
2025	Jun	29	(Sun)	05:46	06:09	66	12:30	77N	18:50	294	19:13
2025	Jun	30	(Mon)	05:46	06:09	66	12:30	77N	18:51	294	19:14
2025	Jul	01	(Tue)	05:46	06:09	66	12:30	77N	18:51	294	19:14
2025	Jul	02	(Wed)	05:47	06:10	66	12:30	78N	18:51	294	19:14
2025	Jul	03	(Thu)	05:47	06:10	67	12:30	78N	18:51	293	19:14
2025	Jul	04	(Fri)	05:47	06:10	67	12:31	78N	18:51	293	19:14
2025	Jul	05	(Sat)	05:47	06:10	67	12:31	78N	18:51	293	19:14
2025	Jul	06	(Sun)	05:48	06:11	67	12:31	78N	18:51	293	19:14
2025	Jul	07	(Mon)	05:48	06:11	67	12:31	78N	18:51	293	19:14
2025	Jul	08	(Tue)	05:48	06:11	67	12:31	78N	18:51	293	19:14
2025	Jul	09	(Wed)	05:49	06:11	67	12:31	78N	18:51	293	19:14
2025	Jul	10	(Thu)	05:49	06:12	67	12:32	78N	18:51	293	19:14
2025	Jul	11	(Fri)	05:49	06:12	67	12:32	78N	18:52	293	19:14
2025	Jul	12	(Sat)	05:49	06:12	68	12:32	79N	18:52	292	19:14
2025	Jul	13	(Sun)	05:50	06:12	68	12:32	79N	18:52	292	19:14
2025	Jul	14	(Mon)	05:50	06:13	68	12:32	79N	18:51	292	19:14
2025	Jul	15	(Tue)	05:50	06:13	68	12:32	79N	18:51	292	19:14
2025	Jul	16	(Wed)	05:50	06:13	68	12:32	79N	18:51	292	19:14
2025	Jul	17	(Thu)	05:51	06:13	68	12:32	79N	18:51	292	19:14
2025	Jul	18	(Fri)	05:51	06:14	68	12:32	80N	18:51	291	19:14
2025	Jul	19	(Sat)	05:51	06:14	69	12:33	80N	18:51	291	19:14
2025	Jul	20	(Sun)	05:51	06:14	69	12:33	80N	18:51	291	19:14
2025	Jul	21	(Mon)	05:52	06:14	69	12:33	80N	18:51	291	19:14
2025	Jul	22	(Tue)	05:52	06:14	69	12:33	80N	18:51	291	19:13
2025	Jul	23	(Wed)	05:52	06:15	69	12:33	81N	18:51	290	19:13
2025	Jul	24	(Thu)	05:52	06:15	70	12:33	81N	18:51	290	19:13
2025	Jul	25	(Fri)	05:53	06:15	70	12:33	81N	18:50	290	19:13
2025	Jul	26	(Sat)	05:53	06:15	70	12:33	81N	18:50	290	19:13
2025	Jul	27	(Sun)	05:53	06:15	70	12:33	81N	18:50	290	19:12
2025	Jul	28	(Mon)	05:53	06:16	71	12:33	82N	18:50	289	19:12
2025	Jul	29	(Tue)	05:53	06:16	71	12:33	82N	18:50	289	19:12
2025	Jul	30	(Wed)	05:54	06:16	71	12:33	82N	18:49	289	19:12
2025	Jul	31	(Thu)	05:54	06:16	71	12:33	82N	18:49	289	19:11
2025	Aug	01	(Fri)	05:54	06:16	72	12:33	83N	18:49	288	19:11

2025 Aug 02 (Sat)	05:54	06:16	72	12:33	83N	18:49	288	19:11
2025 Aug 03 (Sun)	05:54	06:16	72	12:32	83N	18:48	288	19:10
2025 Aug 04 (Mon)	05:54	06:17	72	12:32	83N	18:48	288	19:10
2025 Aug 05 (Tue)	05:55	06:17	73	12:32	84N	18:48	287	19:10
2025 Aug 06 (Wed)	05:55	06:17	73	12:32	84N	18:47	287	19:09
2025 Aug 07 (Thu)	05:55	06:17	73	12:32	84N	18:47	287	19:09
2025 Aug 08 (Fri)	05:55	06:17	73	12:32	84N	18:47	286	19:09
2025 Aug 09 (Sat)	05:55	06:17	74	12:32	85N	18:46	286	19:08
2025 Aug 10 (Sun)	05:55	06:17	74	12:32	85N	18:46	286	19:08
2025 Aug 11 (Mon)	05:55	06:17	74	12:31	85N	18:46	285	19:07
2025 Aug 12 (Tue)	05:55	06:17	75	12:31	86N	18:45	285	19:07
2025 Aug 13 (Wed)	05:55	06:17	75	12:31	86N	18:45	285	19:07
2025 Aug 14 (Thu)	05:56	06:17	75	12:31	86N	18:44	285	19:06
2025 Aug 15 (Fri)	05:56	06:17	76	12:31	87N	18:44	284	19:06
2025 Aug 16 (Sat)	05:56	06:17	76	12:31	87N	18:44	284	19:05
2025 Aug 17 (Sun)	05:56	06:17	76	12:30	87N	18:43	284	19:05
2025 Aug 18 (Mon)	05:56	06:17	77	12:30	88N	18:43	283	19:04
2025 Aug 19 (Tue)	05:56	06:17	77	12:30	88N	18:42	283	19:04
2025 Aug 20 (Wed)	05:56	06:17	77	12:30	88N	18:42	283	19:03
2025 Aug 21 (Thu)	05:56	06:17	78	12:29	89N	18:41	282	19:03
2025 Aug 22 (Fri)	05:56	06:17	78	12:29	89N	18:41	282	19:02
2025 Aug 23 (Sat)	05:56	06:17	78	12:29	89N	18:40	282	19:02
2025 Aug 24 (Sun)	05:56	06:17	79	12:29	90N	18:40	281	19:01
2025 Aug 25 (Mon)	05:56	06:17	79	12:28	90N	18:39	281	19:00
2025 Aug 26 (Tue)	05:56	06:17	79	12:28	90N	18:39	281	19:00
2025 Aug 27 (Wed)	05:56	06:17	80	12:28	91N	18:38	280	18:59
2025 Aug 28 (Thu)	05:56	06:17	80	12:27	90S	18:37	280	18:59
2025 Aug 29 (Fri)	05:56	06:17	80	12:27	90S	18:37	279	18:58
2025 Aug 30 (Sat)	05:56	06:17	81	12:27	90S	18:36	279	18:58
2025 Aug 31 (Sun)	05:56	06:17	81	12:27	89S	18:36	279	18:57
2025 Sep 01 (Mon)	05:56	06:17	81	12:26	89S	18:35	278	18:56
2025 Sep 02 (Tue)	05:56	06:17	82	12:26	89S	18:35	278	18:56
2025 Sep 03 (Wed)	05:56	06:17	82	12:26	88S	18:34	278	18:55
2025 Sep 04 (Thu)	05:56	06:17	83	12:25	88S	18:33	277	18:55
2025 Sep 05 (Fri)	05:56	06:17	83	12:25	88S	18:33	277	18:54
2025 Sep 06 (Sat)	05:56	06:17	83	12:25	87S	18:32	276	18:53
2025 Sep 07 (Sun)	05:56	06:17	84	12:24	87S	18:32	276	18:53
2025 Sep 08 (Mon)	05:56	06:17	84	12:24	86S	18:31	276	18:52
2025 Sep 09 (Tue)	05:55	06:17	84	12:24	86S	18:30	275	18:51
2025 Sep 10 (Wed)	05:55	06:16	85	12:23	86S	18:30	275	18:51
2025 Sep 11 (Thu)	05:55	06:16	85	12:23	85S	18:29	275	18:50
2025 Sep 12 (Fri)	05:55	06:16	86	12:22	85S	18:29	274	18:50
2025 Sep 13 (Sat)	05:55	06:16	86	12:22	85S	18:28	274	18:49
2025 Sep 14 (Sun)	05:55	06:16	86	12:22	84S	18:27	273	18:48
2025 Sep 15 (Mon)	05:55	06:16	87	12:21	84S	18:27	273	18:48
2025 Sep 16 (Tue)	05:55	06:16	87	12:21	83S	18:26	273	18:47
2025 Sep 17 (Wed)	05:55	06:16	88	12:21	83S	18:25	272	18:46
2025 Sep 18 (Thu)	05:55	06:16	88	12:20	83S	18:25	272	18:46
2025 Sep 19 (Fri)	05:55	06:16	88	12:20	82S	18:24	271	18:45
2025 Sep 20 (Sat)	05:55	06:16	89	12:20	82S	18:24	271	18:45
2025 Sep 21 (Sun)	05:55	06:16	89	12:19	81S	18:23	271	18:44
2025 Sep 22 (Mon)	05:54	06:15	90	12:19	81S	18:22	270	18:43
2025 Sep 23 (Tue)	05:54	06:15	90	12:19	81S	18:22	270	18:43
2025 Sep 24 (Wed)	05:54	06:15	90	12:18	80S	18:21	269	18:42
2025 Sep 25 (Thu)	05:54	06:15	91	12:18	80S	18:20	269	18:41
2025 Sep 26 (Fri)	05:54	06:15	91	12:18	80S	18:20	269	18:41
2025 Sep 27 (Sat)	05:54	06:15	92	12:17	79S	18:19	268	18:40
2025 Sep 28 (Sun)	05:54	06:15	92	12:17	79S	18:19	268	18:40
2025 Sep 29 (Mon)	05:54	06:15	92	12:17	78S	18:18	267	18:39
2025 Sep 30 (Tue)	05:54	06:15	93	12:16	78S	18:17	267	18:38
2025 Oct 01 (Wed)	05:54	06:15	93	12:16	78S	18:17	267	18:38
2025 Oct 02 (Thu)	05:54	06:15	93	12:16	77S	18:16	266	18:37
2025 Oct 03 (Fri)	05:54	06:15	94	12:15	77S	18:16	266	18:37
2025 Oct 04 (Sat)	05:54	06:15	94	12:15	76S	18:15	266	18:36
2025 Oct 05 (Sun)	05:54	06:15	95	12:15	76S	18:15	265	18:36
2025 Oct 06 (Mon)	05:54	06:15	95	12:14	76S	18:14	265	18:35
2025 Oct 07 (Tue)	05:54	06:15	95	12:14	75S	18:13	264	18:34

2025	Oct	08	(Wed)	05:53	06:15	96	12:14	75S	18:13	264	18:34
2025	Oct	09	(Thu)	05:53	06:15	96	12:13	75S	18:12	264	18:33
2025	Oct	10	(Fri)	05:53	06:15	97	12:13	74S	18:12	263	18:33
2025	Oct	11	(Sat)	05:53	06:15	97	12:13	74S	18:11	263	18:32
2025	Oct	12	(Sun)	05:53	06:15	97	12:13	73S	18:11	262	18:32
2025	Oct	13	(Mon)	05:53	06:15	98	12:12	73S	18:10	262	18:31
2025	Oct	14	(Tue)	05:53	06:15	98	12:12	73S	18:10	262	18:31
2025	Oct	15	(Wed)	05:53	06:15	99	12:12	72S	18:09	261	18:30
2025	Oct	16	(Thu)	05:53	06:15	99	12:12	72S	18:09	261	18:30
2025	Oct	17	(Fri)	05:53	06:15	99	12:12	72S	18:08	261	18:30
2025	Oct	18	(Sat)	05:53	06:15	100	12:11	71S	18:08	260	18:29
2025	Oct	19	(Sun)	05:54	06:15	100	12:11	71S	18:07	260	18:29
2025	Oct	20	(Mon)	05:54	06:15	100	12:11	70S	18:07	259	18:28
2025	Oct	21	(Tue)	05:54	06:15	101	12:11	70S	18:07	259	18:28
2025	Oct	22	(Wed)	05:54	06:15	101	12:11	70S	18:06	259	18:28
2025	Oct	23	(Thu)	05:54	06:15	101	12:11	69S	18:06	258	18:27
2025	Oct	24	(Fri)	05:54	06:15	102	12:10	69S	18:05	258	18:27
2025	Oct	25	(Sat)	05:54	06:15	102	12:10	69S	18:05	258	18:27
2025	Oct	26	(Sun)	05:54	06:16	102	12:10	68S	18:05	257	18:26
2025	Oct	27	(Mon)	05:54	06:16	103	12:10	68S	18:04	257	18:26
2025	Oct	28	(Tue)	05:54	06:16	103	12:10	68S	18:04	257	18:26
2025	Oct	29	(Wed)	05:54	06:16	104	12:10	67S	18:04	256	18:25
2025	Oct	30	(Thu)	05:55	06:16	104	12:10	67S	18:03	256	18:25
2025	Oct	31	(Fri)	05:55	06:16	104	12:10	67S	18:03	256	18:25
2025	Nov	01	(Sat)	05:55	06:17	105	12:10	66S	18:03	255	18:25
2025	Nov	02	(Sun)	05:55	06:17	105	12:10	66S	18:03	255	18:24
2025	Nov	03	(Mon)	05:55	06:17	105	12:10	66S	18:02	255	18:24
2025	Nov	04	(Tue)	05:55	06:17	105	12:10	65S	18:02	254	18:24
2025	Nov	05	(Wed)	05:56	06:17	106	12:10	65S	18:02	254	18:24
2025	Nov	06	(Thu)	05:56	06:18	106	12:10	65S	18:02	254	18:24
2025	Nov	07	(Fri)	05:56	06:18	106	12:10	65S	18:02	253	18:24
2025	Nov	08	(Sat)	05:56	06:18	107	12:10	64S	18:02	253	18:23
2025	Nov	09	(Sun)	05:57	06:19	107	12:10	64S	18:01	253	18:23
2025	Nov	10	(Mon)	05:57	06:19	107	12:10	64S	18:01	253	18:23
2025	Nov	11	(Tue)	05:57	06:19	108	12:10	63S	18:01	252	18:23
2025	Nov	12	(Wed)	05:57	06:19	108	12:10	63S	18:01	252	18:23
2025	Nov	13	(Thu)	05:58	06:20	108	12:10	63S	18:01	252	18:23
2025	Nov	14	(Fri)	05:58	06:20	108	12:11	63S	18:01	252	18:23
2025	Nov	15	(Sat)	05:58	06:20	109	12:11	62S	18:01	251	18:23
2025	Nov	16	(Sun)	05:59	06:21	109	12:11	62S	18:01	251	18:23
2025	Nov	17	(Mon)	05:59	06:21	109	12:11	62S	18:01	251	18:23
2025	Nov	18	(Tue)	05:59	06:22	109	12:11	62S	18:01	251	18:23
2025	Nov	19	(Wed)	06:00	06:22	110	12:12	61S	18:01	250	18:23
2025	Nov	20	(Thu)	06:00	06:22	110	12:12	61S	18:01	250	18:23
2025	Nov	21	(Fri)	06:01	06:23	110	12:12	61S	18:01	250	18:24
2025	Nov	22	(Sat)	06:01	06:23	110	12:12	61S	18:01	250	18:24
2025	Nov	23	(Sun)	06:01	06:24	111	12:13	60S	18:01	249	18:24
2025	Nov	24	(Mon)	06:02	06:24	111	12:13	60S	18:02	249	18:24
2025	Nov	25	(Tue)	06:02	06:25	111	12:13	60S	18:02	249	18:24
2025	Nov	26	(Wed)	06:03	06:25	111	12:13	60S	18:02	249	18:24
2025	Nov	27	(Thu)	06:03	06:25	111	12:14	60S	18:02	249	18:25
2025	Nov	28	(Fri)	06:03	06:26	111	12:14	60S	18:02	248	18:25
2025	Nov	29	(Sat)	06:04	06:26	112	12:14	59S	18:03	248	18:25
2025	Nov	30	(Sun)	06:04	06:27	112	12:15	59S	18:03	248	18:25
2025	Dec	01	(Mon)	06:05	06:27	112	12:15	59S	18:03	248	18:26
2025	Dec	02	(Tue)	06:05	06:28	112	12:16	59S	18:03	248	18:26
2025	Dec	03	(Wed)	06:06	06:28	112	12:16	59S	18:04	248	18:26
2025	Dec	04	(Thu)	06:06	06:29	112	12:16	59S	18:04	248	18:26
2025	Dec	05	(Fri)	06:07	06:29	113	12:17	58S	18:04	247	18:27
2025	Dec	06	(Sat)	06:07	06:30	113	12:17	58S	18:04	247	18:27
2025	Dec	07	(Sun)	06:08	06:30	113	12:18	58S	18:05	247	18:27
2025	Dec	08	(Mon)	06:08	06:31	113	12:18	58S	18:05	247	18:28
2025	Dec	09	(Tue)	06:09	06:31	113	12:19	58S	18:06	247	18:28
2025	Dec	10	(Wed)	06:09	06:32	113	12:19	58S	18:06	247	18:29
2025	Dec	11	(Thu)	06:10	06:32	113	12:19	58S	18:06	247	18:29
2025	Dec	12	(Fri)	06:10	06:33	113	12:20	58S	18:07	247	18:29
2025	Dec	13	(Sat)	06:11	06:34	113	12:20	58S	18:07	247	18:30

2025	Dec 14	(Sun)	06:11	06:34	113	12:21	58S	18:08	247	18:30
2025	Dec 15	(Mon)	06:12	06:35	113	12:21	58S	18:08	246	18:31
2025	Dec 16	(Tue)	06:12	06:35	114	12:22	58S	18:08	246	18:31
2025	Dec 17	(Wed)	06:13	06:36	114	12:22	58S	18:09	246	18:32
2025	Dec 18	(Thu)	06:13	06:36	114	12:23	57S	18:09	246	18:32
2025	Dec 19	(Fri)	06:14	06:37	114	12:23	57S	18:10	246	18:33
2025	Dec 20	(Sat)	06:14	06:37	114	12:24	57S	18:10	246	18:33
2025	Dec 21	(Sun)	06:15	06:38	114	12:24	57S	18:11	246	18:34
2025	Dec 22	(Mon)	06:15	06:38	114	12:25	57S	18:11	246	18:34
2025	Dec 23	(Tue)	06:16	06:39	114	12:25	57S	18:12	246	18:35
2025	Dec 24	(Wed)	06:16	06:39	114	12:26	57S	18:12	246	18:35
2025	Dec 25	(Thu)	06:17	06:40	114	12:26	57S	18:13	246	18:36
2025	Dec 26	(Fri)	06:17	06:40	114	12:27	58S	18:13	246	18:36
2025	Dec 27	(Sat)	06:18	06:41	114	12:27	58S	18:14	246	18:37
2025	Dec 28	(Sun)	06:18	06:41	113	12:28	58S	18:14	247	18:37
2025	Dec 29	(Mon)	06:19	06:41	113	12:28	58S	18:15	247	18:38
2025	Dec 30	(Tue)	06:19	06:42	113	12:29	58S	18:16	247	18:38
2025	Dec 31	(Wed)	06:20	06:42	113	12:29	58S	18:16	247	18:39

Moon

Ranong

Location: E 98°27'00.0", N 9°49'58.8", 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)	07:51	116	13:45	55S	19:39	245
2025 Jan 02 (Thu)	08:43	112	14:39	59S	20:37	250
2025 Jan 03 (Fri)	09:31	107	15:31	65S	21:32	256
2025 Jan 04 (Sat)	10:16	101	16:20	71S	22:25	262
2025 Jan 05 (Sun)	10:59	94	17:07	78S	23:17	269
2025 Jan 06 (Mon)	11:41	87	17:54	85S		
2025 Jan 07 (Tue)	12:24	80	18:42	89N	00:10	276
2025 Jan 08 (Wed)	13:09	74	19:33	83N	01:03	283
2025 Jan 09 (Thu)	13:58	68	20:27	78N	02:00	289
2025 Jan 10 (Fri)	14:52	64	21:26	74N	02:59	294
2025 Jan 11 (Sat)	15:50	62	22:27	72N	04:01	297
2025 Jan 12 (Sun)	16:51	61	23:28	72N	05:04	299
2025 Jan 13 (Mon)	17:52	63			06:04	298
2025 Jan 14 (Tue)	18:51	66	00:27	74N	07:01	296
2025 Jan 15 (Wed)	19:46	70	01:22	77N	07:51	292
2025 Jan 16 (Thu)	20:37	75	02:13	82N	08:37	287
2025 Jan 17 (Fri)	21:25	81	02:58	87N	09:17	282
2025 Jan 18 (Sat)	22:09	87	03:41	88S	09:55	276
2025 Jan 19 (Sun)	22:53	93	04:21	82S	10:30	270
2025 Jan 20 (Mon)	23:37	99	05:00	76S	11:06	264
2025 Jan 21 (Tue)			05:40	70S	11:41	258
2025 Jan 22 (Wed)	00:21	104	06:21	65S	12:19	253
2025 Jan 23 (Thu)	01:08	109	07:04	60S	12:59	249
2025 Jan 24 (Fri)	01:57	114	07:51	56S	13:44	245
2025 Jan 25 (Sat)	02:50	117	08:42	53S	14:33	242
2025 Jan 26 (Sun)	03:45	119	09:37	52S	15:28	241
2025 Jan 27 (Mon)	04:42	119	10:34	52S	16:26	242
2025 Jan 28 (Tue)	05:39	117	11:32	54S	17:25	244
2025 Jan 29 (Wed)	06:33	114	12:28	58S	18:25	248
2025 Jan 30 (Thu)	07:24	109	13:22	63S	19:22	253
2025 Jan 31 (Fri)	08:11	103	14:13	69S	20:18	260
2025 Feb 01 (Sat)	08:56	97	15:03	76S	21:12	267
2025 Feb 02 (Sun)	09:39	89	15:51	83S	22:05	274
2025 Feb 03 (Mon)	10:23	82	16:40	90S	22:59	281
2025 Feb 04 (Tue)	11:07	76	17:30	85N	23:55	288
2025 Feb 05 (Wed)	11:55	70	18:23	79N		
2025 Feb 06 (Thu)	12:47	65	19:20	75N	00:53	293

2025 Feb 07 (Fri)	13:43	62	20:19	72N	01:54	297
2025 Feb 08 (Sat)	14:42	61	21:19	72N	02:55	299
2025 Feb 09 (Sun)	15:42	62	22:18	73N	03:55	299
2025 Feb 10 (Mon)	16:41	64	23:13	76N	04:52	297
2025 Feb 11 (Tue)	17:36	68			05:44	294
2025 Feb 12 (Wed)	18:28	73	00:05	80N	06:30	289
2025 Feb 13 (Thu)	19:17	79	00:52	85N	07:13	284
2025 Feb 14 (Fri)	20:03	85	01:35	91S	07:51	278
2025 Feb 15 (Sat)	20:47	91	02:16	85S	08:28	272
2025 Feb 16 (Sun)	21:31	97	02:56	79S	09:03	266
2025 Feb 17 (Mon)	22:15	102	03:35	73S	09:38	260
2025 Feb 18 (Tue)	23:00	108	04:16	67S	10:15	255
2025 Feb 19 (Wed)	23:48	112	04:58	62S	10:54	250
2025 Feb 20 (Thu)			05:43	58S	11:36	246
2025 Feb 21 (Fri)	00:39	116	06:31	54S	12:23	243
2025 Feb 22 (Sat)	01:32	118	07:24	52S	13:14	241
2025 Feb 23 (Sun)	02:28	119	08:19	52S	14:10	241
2025 Feb 24 (Mon)	03:24	119	09:15	53S	15:08	242
2025 Feb 25 (Tue)	04:19	116	10:12	55S	16:07	246
2025 Feb 26 (Wed)	05:11	112	11:07	60S	17:06	250
2025 Feb 27 (Thu)	06:00	106	12:00	66S	18:03	257
2025 Feb 28 (Fri)	06:47	100	12:52	73S	18:59	264
2025 Mar 01 (Sat)	07:32	93	13:42	80S	19:54	271
2025 Mar 02 (Sun)	08:16	85	14:32	87S	20:50	279
2025 Mar 03 (Mon)	09:02	78	15:23	87N	21:47	285
2025 Mar 04 (Tue)	09:50	72	16:17	81N	22:46	291
2025 Mar 05 (Wed)	10:42	66	17:14	76N	23:47	296
2025 Mar 06 (Thu)	11:38	63	18:13	73N		
2025 Mar 07 (Fri)	12:36	61	19:13	72N	00:50	298
2025 Mar 08 (Sat)	13:36	61	20:13	72N	01:50	299
2025 Mar 09 (Sun)	14:35	63	21:09	75N	02:48	298
2025 Mar 10 (Mon)	15:31	67	22:01	78N	03:41	295
2025 Mar 11 (Tue)	16:23	71	22:48	83N	04:28	291
2025 Mar 12 (Wed)	17:12	77	23:32	89N	05:11	286
2025 Mar 13 (Thu)	17:59	82			05:50	280
2025 Mar 14 (Fri)	18:43	88	00:14	87S	06:27	275
2025 Mar 15 (Sat)	19:27	94	00:54	81S	07:02	269
2025 Mar 16 (Sun)	20:10	100	01:33	75S	07:37	263
2025 Mar 17 (Mon)	20:55	106	02:13	69S	08:13	257
2025 Mar 18 (Tue)	21:42	111	02:54	64S	08:51	252
2025 Mar 19 (Wed)	22:32	115	03:38	59S	09:32	247
2025 Mar 20 (Thu)	23:23	117	04:25	55S	10:17	244
2025 Mar 21 (Fri)			05:15	53S	11:06	242
2025 Mar 22 (Sat)	00:17	119	06:08	52S	11:58	241
2025 Mar 23 (Sun)	01:12	119	07:03	52S	12:54	242
2025 Mar 24 (Mon)	02:06	117	07:58	54S	13:51	244
2025 Mar 25 (Tue)	02:58	114	08:52	58S	14:49	248
2025 Mar 26 (Wed)	03:47	109	09:45	63S	15:46	253
2025 Mar 27 (Thu)	04:34	103	10:37	69S	16:41	260
2025 Mar 28 (Fri)	05:20	97	11:27	76S	17:37	267
2025 Mar 29 (Sat)	06:05	89	12:18	84S	18:33	275
2025 Mar 30 (Sun)	06:51	82	13:09	90N	19:31	282
2025 Mar 31 (Mon)	07:39	74	14:04	83N	20:31	289
2025 Apr 01 (Tue)	08:31	68	15:02	78N	21:34	294
2025 Apr 02 (Wed)	09:28	64	16:02	74N	22:38	298
2025 Apr 03 (Thu)	10:28	61	17:05	72N	23:42	299
2025 Apr 04 (Fri)	11:29	61	18:06	72N		
2025 Apr 05 (Sat)	12:29	62	19:04	74N	00:42	299
2025 Apr 06 (Sun)	13:27	65	19:58	77N	01:37	296
2025 Apr 07 (Mon)	14:20	70	20:47	82N	02:27	292
2025 Apr 08 (Tue)	15:10	75	21:31	87N	03:10	288
2025 Apr 09 (Wed)	15:57	81	22:13	89S	03:50	282
2025 Apr 10 (Thu)	16:41	86	22:53	83S	04:27	276
2025 Apr 11 (Fri)	17:24	92	23:32	77S	05:03	271
2025 Apr 12 (Sat)	18:08	98			05:38	265
2025 Apr 13 (Sun)	18:52	104	00:12	71S	06:13	259
2025 Apr 14 (Mon)	19:39	109	00:52	66S	06:51	254

2025 Apr 15 (Tue)	20:27 113	01:35 61S	07:31 249
2025 Apr 16 (Wed)	21:18 116	02:21 57S	08:14 245
2025 Apr 17 (Thu)	22:11 119	03:10 54S	09:01 242
2025 Apr 18 (Fri)	23:05 119	04:02 52S	09:52 241
2025 Apr 19 (Sat)	23:58 118	04:55 52S	10:46 241
2025 Apr 20 (Sun)		05:49 53S	11:41 243
2025 Apr 21 (Mon)	00:49 116	06:43 56S	12:37 246
2025 Apr 22 (Tue)	01:38 112	07:34 60S	13:32 251
2025 Apr 23 (Wed)	02:25 106	08:25 66S	14:27 257
2025 Apr 24 (Thu)	03:09 100	09:14 72S	15:21 263
2025 Apr 25 (Fri)	03:53 93	10:03 80S	16:15 271
2025 Apr 26 (Sat)	04:38 85	10:53 87S	17:11 278
2025 Apr 27 (Sun)	05:25 78	11:46 87N	18:10 285
2025 Apr 28 (Mon)	06:15 72	12:43 81N	19:13 291
2025 Apr 29 (Tue)	07:11 66	13:44 76N	20:19 296
2025 Apr 30 (Wed)	08:11 62	14:48 73N	21:25 299
2025 May 01 (Thu)	09:14 61	15:52 72N	22:30 299
2025 May 02 (Fri)	10:18 62	16:54 73N	23:29 297
2025 May 03 (Sat)	11:18 64	17:51 76N	
2025 May 04 (Sun)	12:15 68	18:43 80N	00:22 294
2025 May 05 (Mon)	13:06 73	19:29 85N	01:08 289
2025 May 06 (Tue)	13:54 79	20:12 90S	01:50 284
2025 May 07 (Wed)	14:39 85	20:53 85S	02:28 278
2025 May 08 (Thu)	15:23 91	21:32 79S	03:04 272
2025 May 09 (Fri)	16:06 97	22:11 73S	03:39 266
2025 May 10 (Sat)	16:50 102	22:51 67S	04:14 261
2025 May 11 (Sun)	17:36 107	23:34 62S	04:51 255
2025 May 12 (Mon)	18:24 112		05:30 250
2025 May 13 (Tue)	19:14 115	00:19 58S	06:12 246
2025 May 14 (Wed)	20:07 118	01:07 55S	06:58 243
2025 May 15 (Thu)	21:00 119	01:58 52S	07:48 241
2025 May 16 (Fri)	21:54 118	02:51 52S	08:41 241
2025 May 17 (Sat)	22:45 116	03:45 53S	09:36 242
2025 May 18 (Sun)	23:34 113	04:38 55S	10:31 245
2025 May 19 (Mon)		05:29 59S	11:26 249
2025 May 20 (Tue)	00:20 108	06:18 64S	12:19 255
2025 May 21 (Wed)	01:04 102	07:06 70S	13:11 261
2025 May 22 (Thu)	01:46 96	07:53 77S	14:03 268
2025 May 23 (Fri)	02:29 89	08:41 84S	14:56 275
2025 May 24 (Sat)	03:13 82	09:31 90N	15:52 282
2025 May 25 (Sun)	04:01 75	10:25 84N	16:52 289
2025 May 26 (Mon)	04:53 69	11:23 78N	17:56 294
2025 May 27 (Tue)	05:51 64	12:26 74N	19:02 297
2025 May 28 (Wed)	06:54 62	13:31 72N	20:10 299
2025 May 29 (Thu)	07:59 61	14:36 72N	21:13 298
2025 May 30 (Fri)	09:03 63	15:38 75N	22:11 295
2025 May 31 (Sat)	10:03 67	16:33 78N	23:01 291
2025 Jun 01 (Sun)	10:58 71	17:23 83N	23:46 286
2025 Jun 02 (Mon)	11:49 77	18:09 89N	
2025 Jun 03 (Tue)	12:36 83	18:51 87S	00:26 280
2025 Jun 04 (Wed)	13:20 89	19:31 80S	01:03 274
2025 Jun 05 (Thu)	14:04 95	20:10 75S	01:39 268
2025 Jun 06 (Fri)	14:47 100	20:50 69S	02:14 262
2025 Jun 07 (Sat)	15:32 106	21:31 64S	02:50 257
2025 Jun 08 (Sun)	16:19 111	22:15 59S	03:28 252
2025 Jun 09 (Mon)	17:09 114	23:02 56S	04:10 248
2025 Jun 10 (Tue)	18:01 117	23:53 53S	04:55 244
2025 Jun 11 (Wed)	18:55 119		05:44 242
2025 Jun 12 (Thu)	19:49 119	00:46 52S	06:37 241
2025 Jun 13 (Fri)	20:42 117	01:40 52S	07:32 242
2025 Jun 14 (Sat)	21:32 114	02:34 54S	08:27 244
2025 Jun 15 (Sun)	22:19 109	03:26 58S	09:22 248
2025 Jun 16 (Mon)	23:03 104	04:16 62S	10:15 253
2025 Jun 17 (Tue)	23:45 98	05:04 68S	11:07 259
2025 Jun 18 (Wed)		05:50 75S	11:58 266
2025 Jun 19 (Thu)	00:26 91	06:36 81S	12:49 272
2025 Jun 20 (Fri)	01:08 84	07:24 88S	13:42 279

2025 Jun 21 (Sat)	01:53	77	08:14	86N	14:38	286
2025 Jun 22 (Sun)	02:41	71	09:08	80N	15:38	292
2025 Jun 23 (Mon)	03:35	66	10:07	76N	16:42	296
2025 Jun 24 (Tue)	04:34	63	11:11	73N	17:48	298
2025 Jun 25 (Wed)	05:38	61	12:16	72N	18:54	299
2025 Jun 26 (Thu)	06:43	62	13:20	73N	19:55	297
2025 Jun 27 (Fri)	07:46	65	14:19	77N	20:50	293
2025 Jun 28 (Sat)	08:45	69	15:13	81N	21:38	288
2025 Jun 29 (Sun)	09:39	75	16:01	87N	22:21	282
2025 Jun 30 (Mon)	10:28	80	16:45	89S	23:00	276
2025 Jul 01 (Tue)	11:14	87	17:27	83S	23:37	270
2025 Jul 02 (Wed)	11:59	93	18:07	77S		
2025 Jul 03 (Thu)	12:43	99	18:47	71S	00:12	264
2025 Jul 04 (Fri)	13:28	104	19:28	65S	00:48	259
2025 Jul 05 (Sat)	14:14	109	20:11	61S	01:26	253
2025 Jul 06 (Sun)	15:03	113	20:57	57S	02:06	249
2025 Jul 07 (Mon)	15:54	116	21:46	54S	02:50	245
2025 Jul 08 (Tue)	16:47	118	22:38	52S	03:37	242
2025 Jul 09 (Wed)	17:42	119	23:33	52S	04:29	241
2025 Jul 10 (Thu)	18:36	118			05:24	241
2025 Jul 11 (Fri)	19:27	115	00:28	54S	06:20	243
2025 Jul 12 (Sat)	20:16	111	01:21	57S	07:16	247
2025 Jul 13 (Sun)	21:01	106	02:13	61S	08:11	251
2025 Jul 14 (Mon)	21:44	100	03:01	67S	09:04	257
2025 Jul 15 (Tue)	22:26	93	03:49	73S	09:55	264
2025 Jul 16 (Wed)	23:07	86	04:35	80S	10:46	271
2025 Jul 17 (Thu)	23:50	79	05:21	87S	11:38	278
2025 Jul 18 (Fri)			06:10	88N	12:32	284
2025 Jul 19 (Sat)	00:36	73	07:01	82N	13:29	290
2025 Jul 20 (Sun)	01:27	68	07:57	77N	14:30	295
2025 Jul 21 (Mon)	02:22	64	08:57	73N	15:33	298
2025 Jul 22 (Tue)	03:23	61	10:00	72N	16:38	299
2025 Jul 23 (Wed)	04:26	61	11:04	72N	17:40	298
2025 Jul 24 (Thu)	05:30	63	12:04	75N	18:37	295
2025 Jul 25 (Fri)	06:30	67	13:00	79N	19:28	290
2025 Jul 26 (Sat)	07:26	72	13:51	84N	20:13	285
2025 Jul 27 (Sun)	08:18	78	14:37	90N	20:54	279
2025 Jul 28 (Mon)	09:06	84	15:20	85S	21:32	273
2025 Jul 29 (Tue)	09:52	90	16:02	79S	22:09	267
2025 Jul 30 (Wed)	10:37	96	16:42	73S	22:45	261
2025 Jul 31 (Thu)	11:21	102	17:23	67S	23:22	255
2025 Aug 01 (Fri)	12:07	107	18:05	62S		
2025 Aug 02 (Sat)	12:55	112	18:50	58S	00:01	250
2025 Aug 03 (Sun)	13:45	115	19:38	55S	00:43	246
2025 Aug 04 (Mon)	14:38	118	20:29	52S	01:29	243
2025 Aug 05 (Tue)	15:32	119	21:22	52S	02:19	241
2025 Aug 06 (Wed)	16:26	119	22:17	53S	03:13	241
2025 Aug 07 (Thu)	17:19	116	23:12	55S	04:09	242
2025 Aug 08 (Fri)	18:09	113			05:06	245
2025 Aug 09 (Sat)	18:56	108	00:05	59S	06:02	249
2025 Aug 10 (Sun)	19:41	102	00:55	64S	06:56	255
2025 Aug 11 (Mon)	20:24	95	01:44	71S	07:49	261
2025 Aug 12 (Tue)	21:06	88	02:31	77S	08:41	268
2025 Aug 13 (Wed)	21:49	81	03:19	84S	09:34	276
2025 Aug 14 (Thu)	22:34	75	04:07	90N	10:28	282
2025 Aug 15 (Fri)	23:23	69	04:58	84N	11:24	289
2025 Aug 16 (Sat)			05:52	78N	12:23	294
2025 Aug 17 (Sun)	00:17	64	06:50	74N	13:26	297
2025 Aug 18 (Mon)	01:15	62	07:51	72N	14:29	299
2025 Aug 19 (Tue)	02:16	61	08:53	72N	15:30	299
2025 Aug 20 (Wed)	03:18	62	09:54	74N	16:28	296
2025 Aug 21 (Thu)	04:19	65	10:50	77N	17:20	292
2025 Aug 22 (Fri)	05:16	70	11:42	82N	18:07	287
2025 Aug 23 (Sat)	06:08	75	12:30	87N	18:49	282
2025 Aug 24 (Sun)	06:58	81	13:14	88S	19:28	275
2025 Aug 25 (Mon)	07:45	88	13:56	82S	20:05	269
2025 Aug 26 (Tue)	08:30	94	14:37	75S	20:42	263

2025 Aug 27 (Wed)	09:15 100	15:18 70S	21:19 257
2025 Aug 28 (Thu)	10:00 105	16:00 64S	21:57 252
2025 Aug 29 (Fri)	10:47 110	16:43 60S	22:38 248
2025 Aug 30 (Sat)	11:36 114	17:30 56S	23:22 244
2025 Aug 31 (Sun)	12:28 117	18:19 53S	
2025 Sep 01 (Mon)	13:21 119	19:11 52S	00:10 242
2025 Sep 02 (Tue)	14:14 119	20:05 52S	01:02 241
2025 Sep 03 (Wed)	15:07 118	20:59 54S	01:56 241
2025 Sep 04 (Thu)	15:59 115	21:53 57S	02:52 244
2025 Sep 05 (Fri)	16:47 110	22:44 62S	03:48 247
2025 Sep 06 (Sat)	17:33 105	23:34 68S	04:44 252
2025 Sep 07 (Sun)	18:17 98		05:38 258
2025 Sep 08 (Mon)	19:01 91	00:23 74S	06:31 265
2025 Sep 09 (Tue)	19:44 84	01:11 82S	07:25 273
2025 Sep 10 (Wed)	20:30 77	02:01 89S	08:20 280
2025 Sep 11 (Thu)	21:19 71	02:52 86N	09:17 287
2025 Sep 12 (Fri)	22:12 66	03:46 80N	10:16 292
2025 Sep 13 (Sat)	23:09 62	04:44 75N	11:19 296
2025 Sep 14 (Sun)		05:45 72N	12:23 299
2025 Sep 15 (Mon)	00:10 61	06:48 72N	13:25 299
2025 Sep 16 (Tue)	01:12 62	07:48 73N	14:23 297
2025 Sep 17 (Wed)	02:12 64	08:45 76N	15:16 294
2025 Sep 18 (Thu)	03:09 68	09:38 80N	16:04 289
2025 Sep 19 (Fri)	04:03 73	10:26 85N	16:47 284
2025 Sep 20 (Sat)	04:52 79	11:10 90S	17:26 278
2025 Sep 21 (Sun)	05:39 85	11:53 84S	18:04 272
2025 Sep 22 (Mon)	06:25 91	12:33 78S	18:40 266
2025 Sep 23 (Tue)	07:10 98	13:14 72S	19:16 260
2025 Sep 24 (Wed)	07:55 103	13:55 66S	19:54 254
2025 Sep 25 (Thu)	08:41 108	14:38 61S	20:34 249
2025 Sep 26 (Fri)	09:30 113	15:24 57S	21:17 246
2025 Sep 27 (Sat)	10:20 116	16:12 54S	22:03 243
2025 Sep 28 (Sun)	11:12 118	17:02 52S	22:53 241
2025 Sep 29 (Mon)	12:04 119	17:55 52S	23:45 241
2025 Sep 30 (Tue)	12:57 118	18:48 53S	
2025 Oct 01 (Wed)	13:48 116	19:40 55S	00:39 242
2025 Oct 02 (Thu)	14:36 112	20:32 59S	01:34 245
2025 Oct 03 (Fri)	15:23 107	21:22 65S	02:29 250
2025 Oct 04 (Sat)	16:07 101	22:10 71S	03:23 255
2025 Oct 05 (Sun)	16:51 95	22:59 78S	04:16 262
2025 Oct 06 (Mon)	17:34 87	23:48 85S	05:10 269
2025 Oct 07 (Tue)	18:20 80		06:05 276
2025 Oct 08 (Wed)	19:09 73	00:39 89N	07:02 284
2025 Oct 09 (Thu)	20:02 68	01:34 82N	08:02 290
2025 Oct 10 (Fri)	21:00 63	02:33 77N	09:06 295
2025 Oct 11 (Sat)	22:02 61	03:35 73N	10:12 298
2025 Oct 12 (Sun)	23:05 61	04:39 72N	11:17 299
2025 Oct 13 (Mon)		05:42 72N	12:18 298
2025 Oct 14 (Tue)	00:07 63	06:41 75N	13:13 295
2025 Oct 15 (Wed)	01:05 67	07:35 79N	14:02 291
2025 Oct 16 (Thu)	01:59 72	08:24 84N	14:46 286
2025 Oct 17 (Fri)	02:50 77	09:09 89N	15:26 280
2025 Oct 18 (Sat)	03:37 83	09:51 86S	16:04 274
2025 Oct 19 (Sun)	04:22 89	10:32 80S	16:40 268
2025 Oct 20 (Mon)	05:07 95	11:12 74S	17:16 262
2025 Oct 21 (Tue)	05:51 101	11:53 68S	17:53 256
2025 Oct 22 (Wed)	06:37 107	12:35 63S	18:32 251
2025 Oct 23 (Thu)	07:25 111	13:20 59S	19:14 247
2025 Oct 24 (Fri)	08:14 115	14:07 55S	19:59 244
2025 Oct 25 (Sat)	09:05 118	14:57 53S	20:47 242
2025 Oct 26 (Sun)	09:58 119	15:48 52S	21:38 241
2025 Oct 27 (Mon)	10:50 119	16:40 52S	22:31 242
2025 Oct 28 (Tue)	11:40 117	17:32 54S	23:25 244
2025 Oct 29 (Wed)	12:28 114	18:22 58S	
2025 Oct 30 (Thu)	13:14 110	19:11 62S	00:18 248
2025 Oct 31 (Fri)	13:58 104	19:59 68S	01:10 253
2025 Nov 01 (Sat)	14:40 98	20:46 74S	02:02 259

2025 Nov 02 (Sun)	15:23 91	21:34 81S	02:54 265
2025 Nov 03 (Mon)	16:07 84	22:23 89S	03:47 273
2025 Nov 04 (Tue)	16:54 77	23:16 86N	04:42 280
2025 Nov 05 (Wed)	17:45 70		05:41 287
2025 Nov 06 (Thu)	18:42 65	00:14 80N	06:45 292
2025 Nov 07 (Fri)	19:44 62	01:16 75N	07:52 297
2025 Nov 08 (Sat)	20:50 61	02:22 72N	09:00 299
2025 Nov 09 (Sun)	21:55 62	03:28 72N	10:05 298
2025 Nov 10 (Mon)	22:57 66	04:31 74N	11:05 296
2025 Nov 11 (Tue)	23:54 70	05:29 77N	11:58 292
2025 Nov 12 (Wed)		06:21 82N	12:45 287
2025 Nov 13 (Thu)	00:46 76	07:08 88N	13:26 281
2025 Nov 14 (Fri)	01:35 82	07:51 88S	14:05 275
2025 Nov 15 (Sat)	02:21 88	08:32 82S	14:41 269
2025 Nov 16 (Sun)	03:05 94	09:12 76S	15:17 263
2025 Nov 17 (Mon)	03:49 100	09:52 70S	15:53 258
2025 Nov 18 (Tue)	04:34 105	10:34 65S	16:32 253
2025 Nov 19 (Wed)	05:21 110	11:18 60S	17:12 248
2025 Nov 20 (Thu)	06:10 114	12:04 56S	17:56 245
2025 Nov 21 (Fri)	07:01 117	12:53 54S	18:44 242
2025 Nov 22 (Sat)	07:53 118	13:44 52S	19:34 241
2025 Nov 23 (Sun)	08:45 119	14:36 52S	20:27 242
2025 Nov 24 (Mon)	09:36 118	15:28 54S	21:20 244
2025 Nov 25 (Tue)	10:25 115	16:18 57S	22:12 247
2025 Nov 26 (Wed)	11:10 111	17:06 61S	23:04 251
2025 Nov 27 (Thu)	11:53 106	17:53 66S	23:54 257
2025 Nov 28 (Fri)	12:35 100	18:38 72S	
2025 Nov 29 (Sat)	13:16 94	19:24 78S	00:44 263
2025 Nov 30 (Sun)	13:57 87	20:10 85S	01:34 269
2025 Dec 01 (Mon)	14:41 80	21:00 89N	02:26 276
2025 Dec 02 (Tue)	15:28 74	21:54 83N	03:22 283
2025 Dec 03 (Wed)	16:22 68	22:53 77N	04:21 289
2025 Dec 04 (Thu)	17:21 64	23:57 74N	05:26 295
2025 Dec 05 (Fri)	18:26 62		06:35 298
2025 Dec 06 (Sat)	19:34 62	01:05 72N	07:43 299
2025 Dec 07 (Sun)	20:40 64	02:12 73N	08:48 297
2025 Dec 08 (Mon)	21:42 68	03:14 76N	09:46 294
2025 Dec 09 (Tue)	22:38 74	04:11 80N	10:37 289
2025 Dec 10 (Wed)	23:29 80	05:01 86N	11:22 283
2025 Dec 11 (Thu)		05:47 90S	12:03 277
2025 Dec 12 (Fri)	00:17 86	06:30 83S	12:41 271
2025 Dec 13 (Sat)	01:02 92	07:11 77S	13:17 265
2025 Dec 14 (Sun)	01:47 98	07:51 71S	13:53 259
2025 Dec 15 (Mon)	02:32 103	08:32 66S	14:31 254
2025 Dec 16 (Tue)	03:18 108	09:15 61S	15:11 249
2025 Dec 17 (Wed)	04:06 113	10:01 57S	15:54 246
2025 Dec 18 (Thu)	04:56 116	10:49 54S	16:40 243
2025 Dec 19 (Fri)	05:48 118	11:39 52S	17:30 241
2025 Dec 20 (Sat)	06:41 119	12:31 52S	18:22 241
2025 Dec 21 (Sun)	07:33 118	13:24 53S	19:16 243
2025 Dec 22 (Mon)	08:22 116	14:15 56S	20:09 246
2025 Dec 23 (Tue)	09:09 112	15:04 60S	21:01 250
2025 Dec 24 (Wed)	09:53 108	15:51 64S	21:51 255
2025 Dec 25 (Thu)	10:34 102	16:36 70S	22:40 261
2025 Dec 26 (Fri)	11:14 96	17:20 76S	23:29 267
2025 Dec 27 (Sat)	11:54 89	18:05 83S	
2025 Dec 28 (Sun)	12:35 83	18:51 90S	00:19 274
2025 Dec 29 (Mon)	13:19 76	19:41 85N	01:10 281
2025 Dec 30 (Tue)	14:07 70	20:35 80N	02:06 287
2025 Dec 31 (Wed)	15:02 65	21:35 75N	03:06 292