

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
2024 Jan 01 (Mon)	05:53	06:43 113		12:29 58S	18:16 247		19:05
2024 Jan 02 (Tue)	05:54	06:43 113		12:30 58S	18:17 247		19:06
2024 Jan 03 (Wed)	05:54	06:43 113		12:30 58S	18:17 247		19:06
2024 Jan 04 (Thu)	05:55	06:44 113		12:31 58S	18:18 247		19:07
2024 Jan 05 (Fri)	05:55	06:44 113		12:31 58S	18:18 247		19:07
2024 Jan 06 (Sat)	05:56	06:44 113		12:32 58S	18:19 247		19:08
2024 Jan 07 (Sun)	05:56	06:45 113		12:32 58S	18:20 247		19:08
2024 Jan 08 (Mon)	05:56	06:45 113		12:33 59S	18:20 248		19:09
2024 Jan 09 (Tue)	05:57	06:45 112		12:33 59S	18:21 248		19:09
2024 Jan 10 (Wed)	05:57	06:46 112		12:33 59S	18:21 248		19:10
2024 Jan 11 (Thu)	05:57	06:46 112		12:34 59S	18:22 248		19:10
2024 Jan 12 (Fri)	05:58	06:46 112		12:34 59S	18:22 248		19:11
2024 Jan 13 (Sat)	05:58	06:47 112		12:35 59S	18:23 248		19:11
2024 Jan 14 (Sun)	05:58	06:47 112		12:35 59S	18:23 248		19:12
2024 Jan 15 (Mon)	05:59	06:47 111		12:35 60S	18:24 249		19:12
2024 Jan 16 (Tue)	05:59	06:47 111		12:36 60S	18:24 249		19:12
2024 Jan 17 (Wed)	05:59	06:47 111		12:36 60S	18:25 249		19:13
2024 Jan 18 (Thu)	05:59	06:48 111		12:36 60S	18:25 249		19:13
2024 Jan 19 (Fri)	06:00	06:48 111		12:37 60S	18:26 249		19:14
2024 Jan 20 (Sat)	06:00	06:48 110		12:37 61S	18:26 250		19:14
2024 Jan 21 (Sun)	06:00	06:48 110		12:37 61S	18:27 250		19:15
2024 Jan 22 (Mon)	06:00	06:48 110		12:38 61S	18:27 250		19:15
2024 Jan 23 (Tue)	06:00	06:48 110		12:38 61S	18:27 250		19:15
2024 Jan 24 (Wed)	06:01	06:48 110		12:38 62S	18:28 251		19:16
2024 Jan 25 (Thu)	06:01	06:48 109		12:38 62S	18:28 251		19:16
2024 Jan 26 (Fri)	06:01	06:49 109		12:39 62S	18:29 251		19:16
2024 Jan 27 (Sat)	06:01	06:49 109		12:39 62S	18:29 251		19:17
2024 Jan 28 (Sun)	06:01	06:49 109		12:39 63S	18:29 252		19:17
2024 Jan 29 (Mon)	06:01	06:49 108		12:39 63S	18:30 252		19:17
2024 Jan 30 (Tue)	06:01	06:49 108		12:39 63S	18:30 252		19:18
2024 Jan 31 (Wed)	06:01	06:49 108		12:39 63S	18:31 252		19:18
2024 Feb 01 (Thu)	06:01	06:48 107		12:40 64S	18:31 253		19:18
2024 Feb 02 (Fri)	06:01	06:48 107		12:40 64S	18:31 253		19:18
2024 Feb 03 (Sat)	06:01	06:48 107		12:40 64S	18:32 253		19:19
2024 Feb 04 (Sun)	06:01	06:48 107		12:40 65S	18:32 254		19:19
2024 Feb 05 (Mon)	06:01	06:48 106		12:40 65S	18:32 254		19:19
2024 Feb 06 (Tue)	06:01	06:48 106		12:40 65S	18:33 254		19:19
2024 Feb 07 (Wed)	06:01	06:48 106		12:40 65S	18:33 255		19:20
2024 Feb 08 (Thu)	06:01	06:48 105		12:40 66S	18:33 255		19:20
2024 Feb 09 (Fri)	06:01	06:47 105		12:40 66S	18:33 255		19:20
2024 Feb 10 (Sat)	06:01	06:47 105		12:40 66S	18:34 255		19:20
2024 Feb 11 (Sun)	06:00	06:47 104		12:40 67S	18:34 256		19:20
2024 Feb 12 (Mon)	06:00	06:47 104		12:40 67S	18:34 256		19:21
2024 Feb 13 (Tue)	06:00	06:47 104		12:40 67S	18:34 257		19:21
2024 Feb 14 (Wed)	06:00	06:46 103		12:40 68S	18:35 257		19:21
2024 Feb 15 (Thu)	06:00	06:46 103		12:40 68S	18:35 257		19:21
2024 Feb 16 (Fri)	05:59	06:46 103		12:40 68S	18:35 258		19:21
2024 Feb 17 (Sat)	05:59	06:45 102		12:40 69S	18:35 258		19:21
2024 Feb 18 (Sun)	05:59	06:45 102		12:40 69S	18:35 258		19:22
2024 Feb 19 (Mon)	05:59	06:45 102		12:40 69S	18:36 259		19:22
2024 Feb 20 (Tue)	05:58	06:44 101		12:40 70S	18:36 259		19:22
2024 Feb 21 (Wed)	05:58	06:44 101		12:40 70S	18:36 259		19:22
2024 Feb 22 (Thu)	05:58	06:44 100		12:40 71S	18:36 260		19:22
2024 Feb 23 (Fri)	05:57	06:43 100		12:40 71S	18:36 260		19:22
2024 Feb 24 (Sat)	05:57	06:43 100		12:39 71S	18:36 260		19:22

2024	Feb	25	(Sun)	05:57	06:43	99	12:39	72S	18:36	261	19:22
2024	Feb	26	(Mon)	05:56	06:42	99	12:39	72S	18:36	261	19:22
2024	Feb	27	(Tue)	05:56	06:42	99	12:39	72S	18:37	262	19:22
2024	Feb	28	(Wed)	05:56	06:41	98	12:39	73S	18:37	262	19:22
2024	Feb	29	(Thu)	05:55	06:41	98	12:39	73S	18:37	262	19:22
2024	Mar	01	(Fri)	05:55	06:40	97	12:38	73S	18:37	263	19:22
2024	Mar	02	(Sat)	05:54	06:40	97	12:38	74S	18:37	263	19:22
2024	Mar	03	(Sun)	05:54	06:39	97	12:38	74S	18:37	264	19:22
2024	Mar	04	(Mon)	05:53	06:39	96	12:38	75S	18:37	264	19:22
2024	Mar	05	(Tue)	05:53	06:38	96	12:38	75S	18:37	264	19:22
2024	Mar	06	(Wed)	05:52	06:38	96	12:37	75S	18:37	265	19:22
2024	Mar	07	(Thu)	05:52	06:37	95	12:37	76S	18:37	265	19:22
2024	Mar	08	(Fri)	05:51	06:37	95	12:37	76S	18:37	265	19:22
2024	Mar	09	(Sat)	05:51	06:36	94	12:37	77S	18:37	266	19:22
2024	Mar	10	(Sun)	05:50	06:36	94	12:36	77S	18:37	266	19:22
2024	Mar	11	(Mon)	05:50	06:35	94	12:36	77S	18:37	267	19:22
2024	Mar	12	(Tue)	05:49	06:35	93	12:36	78S	18:37	267	19:22
2024	Mar	13	(Wed)	05:49	06:34	93	12:36	78S	18:37	267	19:22
2024	Mar	14	(Thu)	05:48	06:34	92	12:35	79S	18:37	268	19:22
2024	Mar	15	(Fri)	05:48	06:33	92	12:35	79S	18:37	268	19:22
2024	Mar	16	(Sat)	05:47	06:33	92	12:35	79S	18:37	269	19:22
2024	Mar	17	(Sun)	05:47	06:32	91	12:34	80S	18:37	269	19:22
2024	Mar	18	(Mon)	05:46	06:31	91	12:34	80S	18:37	269	19:22
2024	Mar	19	(Tue)	05:46	06:31	90	12:34	81S	18:37	270	19:22
2024	Mar	20	(Wed)	05:45	06:30	90	12:34	81S	18:37	270	19:22
2024	Mar	21	(Thu)	05:44	06:30	90	12:33	81S	18:37	271	19:22
2024	Mar	22	(Fri)	05:44	06:29	89	12:33	82S	18:37	271	19:22
2024	Mar	23	(Sat)	05:43	06:29	89	12:33	82S	18:37	271	19:22
2024	Mar	24	(Sun)	05:43	06:28	88	12:32	82S	18:37	272	19:22
2024	Mar	25	(Mon)	05:42	06:27	88	12:32	83S	18:37	272	19:22
2024	Mar	26	(Tue)	05:41	06:27	88	12:32	83S	18:37	273	19:22
2024	Mar	27	(Wed)	05:41	06:26	87	12:31	84S	18:37	273	19:22
2024	Mar	28	(Thu)	05:40	06:26	87	12:31	84S	18:37	273	19:22
2024	Mar	29	(Fri)	05:40	06:25	86	12:31	84S	18:37	274	19:22
2024	Mar	30	(Sat)	05:39	06:25	86	12:31	85S	18:37	274	19:22
2024	Mar	31	(Sun)	05:39	06:24	86	12:30	85S	18:37	275	19:22
2024	Apr	01	(Mon)	05:38	06:23	85	12:30	86S	18:37	275	19:22
2024	Apr	02	(Tue)	05:37	06:23	85	12:30	86S	18:37	275	19:22
2024	Apr	03	(Wed)	05:37	06:22	84	12:29	86S	18:37	276	19:22
2024	Apr	04	(Thu)	05:36	06:22	84	12:29	87S	18:37	276	19:22
2024	Apr	05	(Fri)	05:36	06:21	84	12:29	87S	18:37	277	19:22
2024	Apr	06	(Sat)	05:35	06:21	83	12:29	88S	18:37	277	19:22
2024	Apr	07	(Sun)	05:34	06:20	83	12:28	88S	18:37	277	19:22
2024	Apr	08	(Mon)	05:34	06:20	82	12:28	88S	18:37	278	19:22
2024	Apr	09	(Tue)	05:33	06:19	82	12:28	89S	18:37	278	19:22
2024	Apr	10	(Wed)	05:33	06:19	82	12:27	89S	18:37	278	19:23
2024	Apr	11	(Thu)	05:32	06:18	81	12:27	89S	18:37	279	19:23
2024	Apr	12	(Fri)	05:31	06:17	81	12:27	90S	18:37	279	19:23
2024	Apr	13	(Sat)	05:31	06:17	81	12:27	90S	18:37	280	19:23
2024	Apr	14	(Sun)	05:30	06:16	80	12:26	90S	18:37	280	19:23
2024	Apr	15	(Mon)	05:30	06:16	80	12:26	91N	18:37	280	19:23
2024	Apr	16	(Tue)	05:29	06:15	79	12:26	90N	18:37	281	19:23
2024	Apr	17	(Wed)	05:29	06:15	79	12:26	90N	18:37	281	19:23
2024	Apr	18	(Thu)	05:28	06:14	79	12:25	90N	18:37	281	19:23
2024	Apr	19	(Fri)	05:28	06:14	78	12:25	89N	18:37	282	19:23
2024	Apr	20	(Sat)	05:27	06:14	78	12:25	89N	18:37	282	19:23
2024	Apr	21	(Sun)	05:26	06:13	78	12:25	89N	18:37	282	19:23
2024	Apr	22	(Mon)	05:26	06:13	77	12:25	88N	18:37	283	19:24
2024	Apr	23	(Tue)	05:25	06:12	77	12:24	88N	18:37	283	19:24
2024	Apr	24	(Wed)	05:25	06:12	77	12:24	88N	18:37	283	19:24
2024	Apr	25	(Thu)	05:24	06:11	76	12:24	87N	18:37	284	19:24
2024	Apr	26	(Fri)	05:24	06:11	76	12:24	87N	18:37	284	19:24
2024	Apr	27	(Sat)	05:24	06:11	76	12:24	87N	18:37	284	19:24
2024	Apr	28	(Sun)	05:23	06:10	75	12:24	86N	18:37	285	19:24
2024	Apr	29	(Mon)	05:23	06:10	75	12:24	86N	18:37	285	19:25
2024	Apr	30	(Tue)	05:22	06:09	75	12:23	86N	18:37	285	19:25
2024	May	01	(Wed)	05:22	06:09	74	12:23	85N	18:38	286	19:25

2024	May	02	(Thu)	05:21	06:09	74	12:23	85N	18:38	286	19:25
2024	May	03	(Fri)	05:21	06:08	74	12:23	85N	18:38	286	19:25
2024	May	04	(Sat)	05:20	06:08	74	12:23	84N	18:38	287	19:26
2024	May	05	(Sun)	05:20	06:08	73	12:23	84N	18:38	287	19:26
2024	May	06	(Mon)	05:20	06:07	73	12:23	84N	18:38	287	19:26
2024	May	07	(Tue)	05:19	06:07	73	12:23	84N	18:38	287	19:26
2024	May	08	(Wed)	05:19	06:07	72	12:23	83N	18:39	288	19:27
2024	May	09	(Thu)	05:19	06:07	72	12:23	83N	18:39	288	19:27
2024	May	10	(Fri)	05:18	06:06	72	12:23	83N	18:39	288	19:27
2024	May	11	(Sat)	05:18	06:06	72	12:23	83N	18:39	289	19:27
2024	May	12	(Sun)	05:18	06:06	71	12:23	82N	18:39	289	19:28
2024	May	13	(Mon)	05:17	06:06	71	12:23	82N	18:39	289	19:28
2024	May	14	(Tue)	05:17	06:06	71	12:23	82N	18:40	289	19:28
2024	May	15	(Wed)	05:17	06:05	71	12:23	82N	18:40	289	19:28
2024	May	16	(Thu)	05:17	06:05	70	12:23	81N	18:40	290	19:29
2024	May	17	(Fri)	05:16	06:05	70	12:23	81N	18:40	290	19:29
2024	May	18	(Sat)	05:16	06:05	70	12:23	81N	18:40	290	19:29
2024	May	19	(Sun)	05:16	06:05	70	12:23	81N	18:41	290	19:30
2024	May	20	(Mon)	05:16	06:05	70	12:23	80N	18:41	291	19:30
2024	May	21	(Tue)	05:16	06:05	69	12:23	80N	18:41	291	19:30
2024	May	22	(Wed)	05:16	06:04	69	12:23	80N	18:41	291	19:30
2024	May	23	(Thu)	05:15	06:04	69	12:23	80N	18:42	291	19:31
2024	May	24	(Fri)	05:15	06:04	69	12:23	80N	18:42	291	19:31
2024	May	25	(Sat)	05:15	06:04	69	12:23	80N	18:42	292	19:31
2024	May	26	(Sun)	05:15	06:04	68	12:23	79N	18:42	292	19:32
2024	May	27	(Mon)	05:15	06:04	68	12:23	79N	18:43	292	19:32
2024	May	28	(Tue)	05:15	06:04	68	12:24	79N	18:43	292	19:32
2024	May	29	(Wed)	05:15	06:04	68	12:24	79N	18:43	292	19:33
2024	May	30	(Thu)	05:15	06:04	68	12:24	79N	18:43	292	19:33
2024	May	31	(Fri)	05:15	06:04	68	12:24	79N	18:44	293	19:33
2024	Jun	01	(Sat)	05:15	06:04	67	12:24	78N	18:44	293	19:34
2024	Jun	02	(Sun)	05:15	06:04	67	12:24	78N	18:44	293	19:34
2024	Jun	03	(Mon)	05:15	06:04	67	12:24	78N	18:44	293	19:34
2024	Jun	04	(Tue)	05:15	06:04	67	12:25	78N	18:45	293	19:35
2024	Jun	05	(Wed)	05:15	06:05	67	12:25	78N	18:45	293	19:35
2024	Jun	06	(Thu)	05:15	06:05	67	12:25	78N	18:45	293	19:35
2024	Jun	07	(Fri)	05:15	06:05	67	12:25	78N	18:46	293	19:35
2024	Jun	08	(Sat)	05:15	06:05	67	12:25	78N	18:46	293	19:36
2024	Jun	09	(Sun)	05:15	06:05	67	12:26	78N	18:46	294	19:36
2024	Jun	10	(Mon)	05:15	06:05	66	12:26	77N	18:46	294	19:36
2024	Jun	11	(Tue)	05:15	06:05	66	12:26	77N	18:47	294	19:37
2024	Jun	12	(Wed)	05:15	06:05	66	12:26	77N	18:47	294	19:37
2024	Jun	13	(Thu)	05:16	06:06	66	12:26	77N	18:47	294	19:37
2024	Jun	14	(Fri)	05:16	06:06	66	12:27	77N	18:47	294	19:38
2024	Jun	15	(Sat)	05:16	06:06	66	12:27	77N	18:48	294	19:38
2024	Jun	16	(Sun)	05:16	06:06	66	12:27	77N	18:48	294	19:38
2024	Jun	17	(Mon)	05:16	06:06	66	12:27	77N	18:48	294	19:38
2024	Jun	18	(Tue)	05:16	06:06	66	12:27	77N	18:48	294	19:39
2024	Jun	19	(Wed)	05:17	06:07	66	12:28	77N	18:49	294	19:39
2024	Jun	20	(Thu)	05:17	06:07	66	12:28	77N	18:49	294	19:39
2024	Jun	21	(Fri)	05:17	06:07	66	12:28	77N	18:49	294	19:39
2024	Jun	22	(Sat)	05:17	06:07	66	12:28	77N	18:49	294	19:39
2024	Jun	23	(Sun)	05:17	06:08	66	12:29	77N	18:49	294	19:40
2024	Jun	24	(Mon)	05:18	06:08	66	12:29	77N	18:50	294	19:40
2024	Jun	25	(Tue)	05:18	06:08	66	12:29	77N	18:50	294	19:40
2024	Jun	26	(Wed)	05:18	06:08	66	12:29	77N	18:50	294	19:40
2024	Jun	27	(Thu)	05:18	06:08	66	12:29	77N	18:50	294	19:40
2024	Jun	28	(Fri)	05:19	06:09	66	12:30	77N	18:50	294	19:40
2024	Jun	29	(Sat)	05:19	06:09	66	12:30	77N	18:50	294	19:41
2024	Jun	30	(Sun)	05:19	06:09	66	12:30	77N	18:51	294	19:41
2024	Jul	01	(Mon)	05:19	06:09	66	12:30	77N	18:51	294	19:41
2024	Jul	02	(Tue)	05:20	06:10	66	12:30	78N	18:51	293	19:41
2024	Jul	03	(Wed)	05:20	06:10	67	12:31	78N	18:51	293	19:41
2024	Jul	04	(Thu)	05:20	06:10	67	12:31	78N	18:51	293	19:41
2024	Jul	05	(Fri)	05:21	06:10	67	12:31	78N	18:51	293	19:41
2024	Jul	06	(Sat)	05:21	06:11	67	12:31	78N	18:51	293	19:41
2024	Jul	07	(Sun)	05:21	06:11	67	12:31	78N	18:51	293	19:41

2024	Jul	08	(Mon)	05:22	06:11	67	12:31	78N	18:51	293	19:41
2024	Jul	09	(Tue)	05:22	06:12	67	12:32	78N	18:51	293	19:41
2024	Jul	10	(Wed)	05:22	06:12	67	12:32	78N	18:51	293	19:41
2024	Jul	11	(Thu)	05:22	06:12	67	12:32	79N	18:52	292	19:41
2024	Jul	12	(Fri)	05:23	06:12	68	12:32	79N	18:52	292	19:41
2024	Jul	13	(Sat)	05:23	06:12	68	12:32	79N	18:52	292	19:41
2024	Jul	14	(Sun)	05:23	06:13	68	12:32	79N	18:51	292	19:41
2024	Jul	15	(Mon)	05:24	06:13	68	12:32	79N	18:51	292	19:41
2024	Jul	16	(Tue)	05:24	06:13	68	12:32	79N	18:51	292	19:41
2024	Jul	17	(Wed)	05:24	06:13	68	12:32	79N	18:51	292	19:41
2024	Jul	18	(Thu)	05:24	06:14	69	12:32	80N	18:51	291	19:40
2024	Jul	19	(Fri)	05:25	06:14	69	12:33	80N	18:51	291	19:40
2024	Jul	20	(Sat)	05:25	06:14	69	12:33	80N	18:51	291	19:40
2024	Jul	21	(Sun)	05:25	06:14	69	12:33	80N	18:51	291	19:40
2024	Jul	22	(Mon)	05:26	06:14	69	12:33	80N	18:51	291	19:40
2024	Jul	23	(Tue)	05:26	06:15	70	12:33	81N	18:51	290	19:39
2024	Jul	24	(Wed)	05:26	06:15	70	12:33	81N	18:51	290	19:39
2024	Jul	25	(Thu)	05:26	06:15	70	12:33	81N	18:50	290	19:39
2024	Jul	26	(Fri)	05:27	06:15	70	12:33	81N	18:50	290	19:39
2024	Jul	27	(Sat)	05:27	06:15	70	12:33	81N	18:50	289	19:38
2024	Jul	28	(Sun)	05:27	06:16	71	12:33	82N	18:50	289	19:38
2024	Jul	29	(Mon)	05:27	06:16	71	12:33	82N	18:50	289	19:38
2024	Jul	30	(Tue)	05:28	06:16	71	12:33	82N	18:49	289	19:38
2024	Jul	31	(Wed)	05:28	06:16	71	12:33	82N	18:49	289	19:37
2024	Aug	01	(Thu)	05:28	06:16	72	12:33	83N	18:49	288	19:37
2024	Aug	02	(Fri)	05:28	06:16	72	12:32	83N	18:49	288	19:37
2024	Aug	03	(Sat)	05:28	06:16	72	12:32	83N	18:48	288	19:36
2024	Aug	04	(Sun)	05:29	06:17	72	12:32	83N	18:48	287	19:36
2024	Aug	05	(Mon)	05:29	06:17	73	12:32	84N	18:48	287	19:35
2024	Aug	06	(Tue)	05:29	06:17	73	12:32	84N	18:47	287	19:35
2024	Aug	07	(Wed)	05:29	06:17	73	12:32	84N	18:47	287	19:35
2024	Aug	08	(Thu)	05:29	06:17	74	12:32	85N	18:47	286	19:34
2024	Aug	09	(Fri)	05:30	06:17	74	12:32	85N	18:46	286	19:34
2024	Aug	10	(Sat)	05:30	06:17	74	12:32	85N	18:46	286	19:33
2024	Aug	11	(Sun)	05:30	06:17	74	12:31	85N	18:46	285	19:33
2024	Aug	12	(Mon)	05:30	06:17	75	12:31	86N	18:45	285	19:32
2024	Aug	13	(Tue)	05:30	06:17	75	12:31	86N	18:45	285	19:32
2024	Aug	14	(Wed)	05:30	06:17	75	12:31	86N	18:44	284	19:31
2024	Aug	15	(Thu)	05:30	06:17	76	12:31	87N	18:44	284	19:31
2024	Aug	16	(Fri)	05:30	06:17	76	12:30	87N	18:43	284	19:30
2024	Aug	17	(Sat)	05:31	06:17	76	12:30	87N	18:43	284	19:30
2024	Aug	18	(Sun)	05:31	06:17	77	12:30	88N	18:42	283	19:29
2024	Aug	19	(Mon)	05:31	06:17	77	12:30	88N	18:42	283	19:29
2024	Aug	20	(Tue)	05:31	06:17	77	12:30	88N	18:42	283	19:28
2024	Aug	21	(Wed)	05:31	06:17	78	12:29	89N	18:41	282	19:28
2024	Aug	22	(Thu)	05:31	06:17	78	12:29	89N	18:41	282	19:27
2024	Aug	23	(Fri)	05:31	06:17	78	12:29	89N	18:40	281	19:26
2024	Aug	24	(Sat)	05:31	06:17	79	12:29	90N	18:39	281	19:26
2024	Aug	25	(Sun)	05:31	06:17	79	12:28	90N	18:39	281	19:25
2024	Aug	26	(Mon)	05:31	06:17	79	12:28	90N	18:38	280	19:25
2024	Aug	27	(Tue)	05:31	06:17	80	12:28	91N	18:38	280	19:24
2024	Aug	28	(Wed)	05:31	06:17	80	12:27	90S	18:37	280	19:23
2024	Aug	29	(Thu)	05:31	06:17	80	12:27	90S	18:37	279	19:23
2024	Aug	30	(Fri)	05:31	06:17	81	12:27	90S	18:36	279	19:22
2024	Aug	31	(Sat)	05:31	06:17	81	12:26	89S	18:36	279	19:22
2024	Sep	01	(Sun)	05:31	06:17	82	12:26	89S	18:35	278	19:21
2024	Sep	02	(Mon)	05:31	06:17	82	12:26	89S	18:34	278	19:20
2024	Sep	03	(Tue)	05:31	06:17	82	12:25	88S	18:34	278	19:20
2024	Sep	04	(Wed)	05:31	06:17	83	12:25	88S	18:33	277	19:19
2024	Sep	05	(Thu)	05:31	06:17	83	12:25	87S	18:33	277	19:18
2024	Sep	06	(Fri)	05:31	06:17	83	12:24	87S	18:32	276	19:18
2024	Sep	07	(Sat)	05:31	06:17	84	12:24	87S	18:31	276	19:17
2024	Sep	08	(Sun)	05:31	06:17	84	12:24	86S	18:31	276	19:16
2024	Sep	09	(Mon)	05:31	06:17	85	12:23	86S	18:30	275	19:16
2024	Sep	10	(Tue)	05:31	06:16	85	12:23	86S	18:30	275	19:15
2024	Sep	11	(Wed)	05:31	06:16	85	12:23	85S	18:29	274	19:15
2024	Sep	12	(Thu)	05:31	06:16	86	12:22	85S	18:28	274	19:14

2024	Sep	13	(Fri)	05:31	06:16	86	12:22	84S	18:28	274	19:13
2024	Sep	14	(Sat)	05:31	06:16	86	12:22	84S	18:27	273	19:13
2024	Sep	15	(Sun)	05:31	06:16	87	12:21	84S	18:27	273	19:12
2024	Sep	16	(Mon)	05:30	06:16	87	12:21	83S	18:26	273	19:11
2024	Sep	17	(Tue)	05:30	06:16	88	12:21	83S	18:25	272	19:11
2024	Sep	18	(Wed)	05:30	06:16	88	12:20	83S	18:25	272	19:10
2024	Sep	19	(Thu)	05:30	06:16	88	12:20	82S	18:24	271	19:09
2024	Sep	20	(Fri)	05:30	06:16	89	12:20	82S	18:23	271	19:09
2024	Sep	21	(Sat)	05:30	06:15	89	12:19	81S	18:23	271	19:08
2024	Sep	22	(Sun)	05:30	06:15	90	12:19	81S	18:22	270	19:07
2024	Sep	23	(Mon)	05:30	06:15	90	12:18	81S	18:22	270	19:07
2024	Sep	24	(Tue)	05:30	06:15	90	12:18	80S	18:21	269	19:06
2024	Sep	25	(Wed)	05:30	06:15	91	12:18	80S	18:20	269	19:06
2024	Sep	26	(Thu)	05:30	06:15	91	12:17	79S	18:20	269	19:05
2024	Sep	27	(Fri)	05:30	06:15	92	12:17	79S	18:19	268	19:04
2024	Sep	28	(Sat)	05:30	06:15	92	12:17	79S	18:18	268	19:04
2024	Sep	29	(Sun)	05:30	06:15	92	12:16	78S	18:18	267	19:03
2024	Sep	30	(Mon)	05:29	06:15	93	12:16	78S	18:17	267	19:03
2024	Oct	01	(Tue)	05:29	06:15	93	12:16	77S	18:17	267	19:02
2024	Oct	02	(Wed)	05:29	06:15	94	12:15	77S	18:16	266	19:01
2024	Oct	03	(Thu)	05:29	06:15	94	12:15	77S	18:16	266	19:01
2024	Oct	04	(Fri)	05:29	06:15	94	12:15	76S	18:15	265	19:00
2024	Oct	05	(Sat)	05:29	06:15	95	12:15	76S	18:14	265	19:00
2024	Oct	06	(Sun)	05:29	06:15	95	12:14	76S	18:14	265	18:59
2024	Oct	07	(Mon)	05:29	06:15	96	12:14	75S	18:13	264	18:59
2024	Oct	08	(Tue)	05:29	06:15	96	12:14	75S	18:13	264	18:58
2024	Oct	09	(Wed)	05:29	06:15	96	12:13	74S	18:12	264	18:58
2024	Oct	10	(Thu)	05:29	06:15	97	12:13	74S	18:12	263	18:57
2024	Oct	11	(Fri)	05:29	06:15	97	12:13	74S	18:11	263	18:57
2024	Oct	12	(Sat)	05:29	06:15	97	12:13	73S	18:11	262	18:56
2024	Oct	13	(Sun)	05:29	06:15	98	12:12	73S	18:10	262	18:56
2024	Oct	14	(Mon)	05:29	06:15	98	12:12	73S	18:10	262	18:55
2024	Oct	15	(Tue)	05:29	06:15	99	12:12	72S	18:09	261	18:55
2024	Oct	16	(Wed)	05:29	06:15	99	12:12	72S	18:09	261	18:54
2024	Oct	17	(Thu)	05:29	06:15	99	12:12	71S	18:08	260	18:54
2024	Oct	18	(Fri)	05:29	06:15	100	12:11	71S	18:08	260	18:54
2024	Oct	19	(Sat)	05:29	06:15	100	12:11	71S	18:07	260	18:53
2024	Oct	20	(Sun)	05:29	06:15	100	12:11	70S	18:07	259	18:53
2024	Oct	21	(Mon)	05:29	06:15	101	12:11	70S	18:06	259	18:53
2024	Oct	22	(Tue)	05:29	06:15	101	12:11	70S	18:06	259	18:52
2024	Oct	23	(Wed)	05:29	06:15	102	12:10	69S	18:06	258	18:52
2024	Oct	24	(Thu)	05:29	06:15	102	12:10	69S	18:05	258	18:52
2024	Oct	25	(Fri)	05:29	06:15	102	12:10	69S	18:05	258	18:51
2024	Oct	26	(Sat)	05:29	06:16	103	12:10	68S	18:05	257	18:51
2024	Oct	27	(Sun)	05:29	06:16	103	12:10	68S	18:04	257	18:51
2024	Oct	28	(Mon)	05:29	06:16	103	12:10	68S	18:04	257	18:50
2024	Oct	29	(Tue)	05:30	06:16	104	12:10	67S	18:04	256	18:50
2024	Oct	30	(Wed)	05:30	06:16	104	12:10	67S	18:03	256	18:50
2024	Oct	31	(Thu)	05:30	06:16	104	12:10	67S	18:03	256	18:50
2024	Nov	01	(Fri)	05:30	06:17	105	12:10	66S	18:03	255	18:50
2024	Nov	02	(Sat)	05:30	06:17	105	12:10	66S	18:03	255	18:49
2024	Nov	03	(Sun)	05:30	06:17	105	12:10	66S	18:02	255	18:49
2024	Nov	04	(Mon)	05:30	06:17	106	12:10	65S	18:02	254	18:49
2024	Nov	05	(Tue)	05:31	06:17	106	12:10	65S	18:02	254	18:49
2024	Nov	06	(Wed)	05:31	06:18	106	12:10	65S	18:02	254	18:49
2024	Nov	07	(Thu)	05:31	06:18	106	12:10	64S	18:02	253	18:49
2024	Nov	08	(Fri)	05:31	06:18	107	12:10	64S	18:02	253	18:49
2024	Nov	09	(Sat)	05:31	06:19	107	12:10	64S	18:01	253	18:49
2024	Nov	10	(Sun)	05:32	06:19	107	12:10	64S	18:01	253	18:49
2024	Nov	11	(Mon)	05:32	06:19	108	12:10	63S	18:01	252	18:49
2024	Nov	12	(Tue)	05:32	06:20	108	12:10	63S	18:01	252	18:49
2024	Nov	13	(Wed)	05:32	06:20	108	12:11	63S	18:01	252	18:49
2024	Nov	14	(Thu)	05:33	06:20	108	12:11	63S	18:01	251	18:49
2024	Nov	15	(Fri)	05:33	06:21	109	12:11	62S	18:01	251	18:49
2024	Nov	16	(Sat)	05:33	06:21	109	12:11	62S	18:01	251	18:49
2024	Nov	17	(Sun)	05:34	06:21	109	12:11	62S	18:01	251	18:49
2024	Nov	18	(Mon)	05:34	06:22	109	12:11	62S	18:01	250	18:49

2024	Nov	19	(Tue)	05:34	06:22	110	12:12	61S	18:01	250	18:49
2024	Nov	20	(Wed)	05:35	06:22	110	12:12	61S	18:01	250	18:49
2024	Nov	21	(Thu)	05:35	06:23	110	12:12	61S	18:01	250	18:49
2024	Nov	22	(Fri)	05:35	06:23	110	12:12	61S	18:01	250	18:49
2024	Nov	23	(Sat)	05:36	06:24	111	12:13	60S	18:01	249	18:50
2024	Nov	24	(Sun)	05:36	06:24	111	12:13	60S	18:02	249	18:50
2024	Nov	25	(Mon)	05:36	06:25	111	12:13	60S	18:02	249	18:50
2024	Nov	26	(Tue)	05:37	06:25	111	12:14	60S	18:02	249	18:50
2024	Nov	27	(Wed)	05:37	06:26	111	12:14	60S	18:02	249	18:51
2024	Nov	28	(Thu)	05:38	06:26	112	12:14	59S	18:02	248	18:51
2024	Nov	29	(Fri)	05:38	06:26	112	12:15	59S	18:03	248	18:51
2024	Nov	30	(Sat)	05:38	06:27	112	12:15	59S	18:03	248	18:51
2024	Dec	01	(Sun)	05:39	06:27	112	12:15	59S	18:03	248	18:52
2024	Dec	02	(Mon)	05:39	06:28	112	12:16	59S	18:03	248	18:52
2024	Dec	03	(Tue)	05:40	06:28	112	12:16	59S	18:04	248	18:52
2024	Dec	04	(Wed)	05:40	06:29	112	12:16	59S	18:04	247	18:53
2024	Dec	05	(Thu)	05:41	06:30	113	12:17	58S	18:04	247	18:53
2024	Dec	06	(Fri)	05:41	06:30	113	12:17	58S	18:05	247	18:53
2024	Dec	07	(Sat)	05:42	06:31	113	12:18	58S	18:05	247	18:54
2024	Dec	08	(Sun)	05:42	06:31	113	12:18	58S	18:05	247	18:54
2024	Dec	09	(Mon)	05:43	06:32	113	12:19	58S	18:06	247	18:55
2024	Dec	10	(Tue)	05:43	06:32	113	12:19	58S	18:06	247	18:55
2024	Dec	11	(Wed)	05:44	06:33	113	12:20	58S	18:06	247	18:55
2024	Dec	12	(Thu)	05:44	06:33	113	12:20	58S	18:07	247	18:56
2024	Dec	13	(Fri)	05:45	06:34	113	12:20	58S	18:07	247	18:56
2024	Dec	14	(Sat)	05:45	06:34	113	12:21	58S	18:08	247	18:57
2024	Dec	15	(Sun)	05:46	06:35	113	12:21	58S	18:08	246	18:57
2024	Dec	16	(Mon)	05:46	06:35	114	12:22	58S	18:09	246	18:58
2024	Dec	17	(Tue)	05:47	06:36	114	12:22	58S	18:09	246	18:58
2024	Dec	18	(Wed)	05:47	06:36	114	12:23	57S	18:09	246	18:59
2024	Dec	19	(Thu)	05:48	06:37	114	12:23	57S	18:10	246	18:59
2024	Dec	20	(Fri)	05:48	06:37	114	12:24	57S	18:10	246	19:00
2024	Dec	21	(Sat)	05:49	06:38	114	12:24	57S	18:11	246	19:00
2024	Dec	22	(Sun)	05:49	06:38	114	12:25	57S	18:11	246	19:01
2024	Dec	23	(Mon)	05:50	06:39	114	12:25	57S	18:12	246	19:01
2024	Dec	24	(Tue)	05:50	06:39	114	12:26	57S	18:12	246	19:02
2024	Dec	25	(Wed)	05:51	06:40	114	12:26	57S	18:13	246	19:02
2024	Dec	26	(Thu)	05:51	06:40	114	12:27	58S	18:14	246	19:03
2024	Dec	27	(Fri)	05:52	06:41	114	12:27	58S	18:14	246	19:03
2024	Dec	28	(Sat)	05:52	06:41	113	12:28	58S	18:15	247	19:04
2024	Dec	29	(Sun)	05:52	06:42	113	12:28	58S	18:15	247	19:04
2024	Dec	30	(Mon)	05:53	06:42	113	12:29	58S	18:16	247	19:05
2024	Dec	31	(Tue)	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	Rise	Az.	Transit Alt.	Set	Az.	End Civil Twilight
				h m	h m	°	h m °	h m °		h m
2024	Jan	01	(Mon)	06:20	06:43	113	12:29 58S	18:16 247		18:39
2024	Jan	02	(Tue)	06:20	06:43	113	12:30 58S	18:17 247		18:40
2024	Jan	03	(Wed)	06:21	06:43	113	12:30 58S	18:17 247		18:40
2024	Jan	04	(Thu)	06:21	06:44	113	12:31 58S	18:18 247		18:41
2024	Jan	05	(Fri)	06:21	06:44	113	12:31 58S	18:18 247		18:41
2024	Jan	06	(Sat)	06:22	06:44	113	12:32 58S	18:19 247		18:42
2024	Jan	07	(Sun)	06:22	06:45	113	12:32 58S	18:20 247		18:42
2024	Jan	08	(Mon)	06:22	06:45	113	12:33 59S	18:20 248		18:43
2024	Jan	09	(Tue)	06:23	06:45	112	12:33 59S	18:21 248		18:43
2024	Jan	10	(Wed)	06:23	06:46	112	12:33 59S	18:21 248		18:44
2024	Jan	11	(Thu)	06:23	06:46	112	12:34 59S	18:22 248		18:44

2024	Jan	12	(Fri)	06:24	06:46	112	12:34	59S	18:22	248	18:45
2024	Jan	13	(Sat)	06:24	06:47	112	12:35	59S	18:23	248	18:45
2024	Jan	14	(Sun)	06:24	06:47	112	12:35	59S	18:23	248	18:46
2024	Jan	15	(Mon)	06:25	06:47	111	12:35	60S	18:24	249	18:46
2024	Jan	16	(Tue)	06:25	06:47	111	12:36	60S	18:24	249	18:47
2024	Jan	17	(Wed)	06:25	06:47	111	12:36	60S	18:25	249	18:47
2024	Jan	18	(Thu)	06:25	06:48	111	12:36	60S	18:25	249	18:48
2024	Jan	19	(Fri)	06:25	06:48	111	12:37	60S	18:26	249	18:48
2024	Jan	20	(Sat)	06:26	06:48	110	12:37	61S	18:26	250	18:48
2024	Jan	21	(Sun)	06:26	06:48	110	12:37	61S	18:27	250	18:49
2024	Jan	22	(Mon)	06:26	06:48	110	12:38	61S	18:27	250	18:49
2024	Jan	23	(Tue)	06:26	06:48	110	12:38	61S	18:27	250	18:50
2024	Jan	24	(Wed)	06:26	06:48	110	12:38	62S	18:28	251	18:50
2024	Jan	25	(Thu)	06:26	06:48	109	12:38	62S	18:28	251	18:50
2024	Jan	26	(Fri)	06:26	06:49	109	12:39	62S	18:29	251	18:51
2024	Jan	27	(Sat)	06:26	06:49	109	12:39	62S	18:29	251	18:51
2024	Jan	28	(Sun)	06:27	06:49	109	12:39	63S	18:29	252	18:52
2024	Jan	29	(Mon)	06:27	06:49	108	12:39	63S	18:30	252	18:52
2024	Jan	30	(Tue)	06:27	06:49	108	12:39	63S	18:30	252	18:52
2024	Jan	31	(Wed)	06:27	06:49	108	12:39	63S	18:31	252	18:53
2024	Feb	01	(Thu)	06:27	06:48	107	12:40	64S	18:31	253	18:53
2024	Feb	02	(Fri)	06:26	06:48	107	12:40	64S	18:31	253	18:53
2024	Feb	03	(Sat)	06:26	06:48	107	12:40	64S	18:32	253	18:53
2024	Feb	04	(Sun)	06:26	06:48	107	12:40	65S	18:32	254	18:54
2024	Feb	05	(Mon)	06:26	06:48	106	12:40	65S	18:32	254	18:54
2024	Feb	06	(Tue)	06:26	06:48	106	12:40	65S	18:33	254	18:54
2024	Feb	07	(Wed)	06:26	06:48	106	12:40	65S	18:33	255	18:55
2024	Feb	08	(Thu)	06:26	06:48	105	12:40	66S	18:33	255	18:55
2024	Feb	09	(Fri)	06:26	06:47	105	12:40	66S	18:33	255	18:55
2024	Feb	10	(Sat)	06:26	06:47	105	12:40	66S	18:34	255	18:55
2024	Feb	11	(Sun)	06:25	06:47	104	12:40	67S	18:34	256	18:55
2024	Feb	12	(Mon)	06:25	06:47	104	12:40	67S	18:34	256	18:56
2024	Feb	13	(Tue)	06:25	06:47	104	12:40	67S	18:34	257	18:56
2024	Feb	14	(Wed)	06:25	06:46	103	12:40	68S	18:35	257	18:56
2024	Feb	15	(Thu)	06:25	06:46	103	12:40	68S	18:35	257	18:56
2024	Feb	16	(Fri)	06:24	06:46	103	12:40	68S	18:35	258	18:56
2024	Feb	17	(Sat)	06:24	06:45	102	12:40	69S	18:35	258	18:57
2024	Feb	18	(Sun)	06:24	06:45	102	12:40	69S	18:35	258	18:57
2024	Feb	19	(Mon)	06:23	06:45	102	12:40	69S	18:36	259	18:57
2024	Feb	20	(Tue)	06:23	06:44	101	12:40	70S	18:36	259	18:57
2024	Feb	21	(Wed)	06:23	06:44	101	12:40	70S	18:36	259	18:57
2024	Feb	22	(Thu)	06:22	06:44	100	12:40	71S	18:36	260	18:57
2024	Feb	23	(Fri)	06:22	06:43	100	12:40	71S	18:36	260	18:57
2024	Feb	24	(Sat)	06:22	06:43	100	12:39	71S	18:36	260	18:57
2024	Feb	25	(Sun)	06:21	06:43	99	12:39	72S	18:36	261	18:58
2024	Feb	26	(Mon)	06:21	06:42	99	12:39	72S	18:36	261	18:58
2024	Feb	27	(Tue)	06:20	06:42	99	12:39	72S	18:37	262	18:58
2024	Feb	28	(Wed)	06:20	06:41	98	12:39	73S	18:37	262	18:58
2024	Feb	29	(Thu)	06:20	06:41	98	12:39	73S	18:37	262	18:58
2024	Mar	01	(Fri)	06:19	06:40	97	12:38	73S	18:37	263	18:58
2024	Mar	02	(Sat)	06:19	06:40	97	12:38	74S	18:37	263	18:58
2024	Mar	03	(Sun)	06:18	06:39	97	12:38	74S	18:37	264	18:58
2024	Mar	04	(Mon)	06:18	06:39	96	12:38	75S	18:37	264	18:58
2024	Mar	05	(Tue)	06:17	06:38	96	12:38	75S	18:37	264	18:58
2024	Mar	06	(Wed)	06:17	06:38	96	12:37	75S	18:37	265	18:58
2024	Mar	07	(Thu)	06:16	06:37	95	12:37	76S	18:37	265	18:58
2024	Mar	08	(Fri)	06:16	06:37	95	12:37	76S	18:37	265	18:58
2024	Mar	09	(Sat)	06:15	06:36	94	12:37	77S	18:37	266	18:58
2024	Mar	10	(Sun)	06:15	06:36	94	12:36	77S	18:37	266	18:58
2024	Mar	11	(Mon)	06:14	06:35	94	12:36	77S	18:37	267	18:58
2024	Mar	12	(Tue)	06:14	06:35	93	12:36	78S	18:37	267	18:58
2024	Mar	13	(Wed)	06:13	06:34	93	12:36	78S	18:37	267	18:58
2024	Mar	14	(Thu)	06:13	06:34	92	12:35	79S	18:37	268	18:58
2024	Mar	15	(Fri)	06:12	06:33	92	12:35	79S	18:37	268	18:58
2024	Mar	16	(Sat)	06:12	06:33	92	12:35	79S	18:37	269	18:58
2024	Mar	17	(Sun)	06:11	06:32	91	12:34	80S	18:37	269	18:58
2024	Mar	18	(Mon)	06:11	06:31	91	12:34	80S	18:37	269	18:58

2024	Mar	19	(Tue)	06:10	06:31	90	12:34	81S	18:37	270	18:58
2024	Mar	20	(Wed)	06:09	06:30	90	12:34	81S	18:37	270	18:58
2024	Mar	21	(Thu)	06:09	06:30	90	12:33	81S	18:37	271	18:58
2024	Mar	22	(Fri)	06:08	06:29	89	12:33	82S	18:37	271	18:58
2024	Mar	23	(Sat)	06:08	06:29	89	12:33	82S	18:37	271	18:58
2024	Mar	24	(Sun)	06:07	06:28	88	12:32	82S	18:37	272	18:58
2024	Mar	25	(Mon)	06:06	06:27	88	12:32	83S	18:37	272	18:58
2024	Mar	26	(Tue)	06:06	06:27	88	12:32	83S	18:37	273	18:58
2024	Mar	27	(Wed)	06:05	06:26	87	12:31	84S	18:37	273	18:58
2024	Mar	28	(Thu)	06:05	06:26	87	12:31	84S	18:37	273	18:58
2024	Mar	29	(Fri)	06:04	06:25	86	12:31	84S	18:37	274	18:58
2024	Mar	30	(Sat)	06:04	06:25	86	12:31	85S	18:37	274	18:58
2024	Mar	31	(Sun)	06:03	06:24	86	12:30	85S	18:37	275	18:58
2024	Apr	01	(Mon)	06:02	06:23	85	12:30	86S	18:37	275	18:58
2024	Apr	02	(Tue)	06:02	06:23	85	12:30	86S	18:37	275	18:58
2024	Apr	03	(Wed)	06:01	06:22	84	12:29	86S	18:37	276	18:58
2024	Apr	04	(Thu)	06:01	06:22	84	12:29	87S	18:37	276	18:58
2024	Apr	05	(Fri)	06:00	06:21	84	12:29	87S	18:37	277	18:58
2024	Apr	06	(Sat)	06:00	06:21	83	12:29	88S	18:37	277	18:58
2024	Apr	07	(Sun)	05:59	06:20	83	12:28	88S	18:37	277	18:58
2024	Apr	08	(Mon)	05:58	06:20	82	12:28	88S	18:37	278	18:58
2024	Apr	09	(Tue)	05:58	06:19	82	12:28	89S	18:37	278	18:58
2024	Apr	10	(Wed)	05:57	06:19	82	12:27	89S	18:37	278	18:58
2024	Apr	11	(Thu)	05:57	06:18	81	12:27	89S	18:37	279	18:58
2024	Apr	12	(Fri)	05:56	06:17	81	12:27	90S	18:37	279	18:58
2024	Apr	13	(Sat)	05:56	06:17	81	12:27	90S	18:37	280	18:58
2024	Apr	14	(Sun)	05:55	06:16	80	12:26	90S	18:37	280	18:58
2024	Apr	15	(Mon)	05:55	06:16	80	12:26	91N	18:37	280	18:58
2024	Apr	16	(Tue)	05:54	06:15	79	12:26	90N	18:37	281	18:58
2024	Apr	17	(Wed)	05:54	06:15	79	12:26	90N	18:37	281	18:58
2024	Apr	18	(Thu)	05:53	06:14	79	12:25	90N	18:37	281	18:58
2024	Apr	19	(Fri)	05:53	06:14	78	12:25	89N	18:37	282	18:58
2024	Apr	20	(Sat)	05:52	06:14	78	12:25	89N	18:37	282	18:58
2024	Apr	21	(Sun)	05:52	06:13	78	12:25	89N	18:37	282	18:58
2024	Apr	22	(Mon)	05:51	06:13	77	12:25	88N	18:37	283	18:58
2024	Apr	23	(Tue)	05:51	06:12	77	12:24	88N	18:37	283	18:58
2024	Apr	24	(Wed)	05:50	06:12	77	12:24	88N	18:37	283	18:59
2024	Apr	25	(Thu)	05:50	06:11	76	12:24	87N	18:37	284	18:59
2024	Apr	26	(Fri)	05:49	06:11	76	12:24	87N	18:37	284	18:59
2024	Apr	27	(Sat)	05:49	06:11	76	12:24	87N	18:37	284	18:59
2024	Apr	28	(Sun)	05:48	06:10	75	12:24	86N	18:37	285	18:59
2024	Apr	29	(Mon)	05:48	06:10	75	12:24	86N	18:37	285	18:59
2024	Apr	30	(Tue)	05:48	06:09	75	12:23	86N	18:37	285	18:59
2024	May	01	(Wed)	05:47	06:09	74	12:23	85N	18:38	286	18:59
2024	May	02	(Thu)	05:47	06:09	74	12:23	85N	18:38	286	19:00
2024	May	03	(Fri)	05:46	06:08	74	12:23	85N	18:38	286	19:00
2024	May	04	(Sat)	05:46	06:08	74	12:23	84N	18:38	287	19:00
2024	May	05	(Sun)	05:46	06:08	73	12:23	84N	18:38	287	19:00
2024	May	06	(Mon)	05:45	06:07	73	12:23	84N	18:38	287	19:00
2024	May	07	(Tue)	05:45	06:07	73	12:23	84N	18:38	287	19:00
2024	May	08	(Wed)	05:45	06:07	72	12:23	83N	18:39	288	19:01
2024	May	09	(Thu)	05:45	06:07	72	12:23	83N	18:39	288	19:01
2024	May	10	(Fri)	05:44	06:06	72	12:23	83N	18:39	288	19:01
2024	May	11	(Sat)	05:44	06:06	72	12:23	83N	18:39	289	19:01
2024	May	12	(Sun)	05:44	06:06	71	12:23	82N	18:39	289	19:02
2024	May	13	(Mon)	05:44	06:06	71	12:23	82N	18:39	289	19:02
2024	May	14	(Tue)	05:43	06:06	71	12:23	82N	18:40	289	19:02
2024	May	15	(Wed)	05:43	06:05	71	12:23	82N	18:40	289	19:02
2024	May	16	(Thu)	05:43	06:05	70	12:23	81N	18:40	290	19:02
2024	May	17	(Fri)	05:43	06:05	70	12:23	81N	18:40	290	19:03
2024	May	18	(Sat)	05:43	06:05	70	12:23	81N	18:40	290	19:03
2024	May	19	(Sun)	05:42	06:05	70	12:23	81N	18:41	290	19:03
2024	May	20	(Mon)	05:42	06:05	70	12:23	80N	18:41	291	19:03
2024	May	21	(Tue)	05:42	06:05	69	12:23	80N	18:41	291	19:04
2024	May	22	(Wed)	05:42	06:04	69	12:23	80N	18:41	291	19:04
2024	May	23	(Thu)	05:42	06:04	69	12:23	80N	18:42	291	19:04
2024	May	24	(Fri)	05:42	06:04	69	12:23	80N	18:42	291	19:05

2024	May	25	(Sat)	05:42	06:04	69	12:23	80N	18:42	292	19:05
2024	May	26	(Sun)	05:42	06:04	68	12:23	79N	18:42	292	19:05
2024	May	27	(Mon)	05:42	06:04	68	12:23	79N	18:43	292	19:05
2024	May	28	(Tue)	05:41	06:04	68	12:24	79N	18:43	292	19:06
2024	May	29	(Wed)	05:41	06:04	68	12:24	79N	18:43	292	19:06
2024	May	30	(Thu)	05:41	06:04	68	12:24	79N	18:43	292	19:06
2024	May	31	(Fri)	05:41	06:04	68	12:24	79N	18:44	293	19:06
2024	Jun	01	(Sat)	05:41	06:04	67	12:24	78N	18:44	293	19:07
2024	Jun	02	(Sun)	05:41	06:04	67	12:24	78N	18:44	293	19:07
2024	Jun	03	(Mon)	05:42	06:04	67	12:24	78N	18:44	293	19:07
2024	Jun	04	(Tue)	05:42	06:04	67	12:25	78N	18:45	293	19:08
2024	Jun	05	(Wed)	05:42	06:05	67	12:25	78N	18:45	293	19:08
2024	Jun	06	(Thu)	05:42	06:05	67	12:25	78N	18:45	293	19:08
2024	Jun	07	(Fri)	05:42	06:05	67	12:25	78N	18:46	293	19:09
2024	Jun	08	(Sat)	05:42	06:05	67	12:25	78N	18:46	293	19:09
2024	Jun	09	(Sun)	05:42	06:05	67	12:26	78N	18:46	294	19:09
2024	Jun	10	(Mon)	05:42	06:05	66	12:26	77N	18:46	294	19:09
2024	Jun	11	(Tue)	05:42	06:05	66	12:26	77N	18:47	294	19:10
2024	Jun	12	(Wed)	05:42	06:05	66	12:26	77N	18:47	294	19:10
2024	Jun	13	(Thu)	05:43	06:06	66	12:26	77N	18:47	294	19:10
2024	Jun	14	(Fri)	05:43	06:06	66	12:27	77N	18:47	294	19:10
2024	Jun	15	(Sat)	05:43	06:06	66	12:27	77N	18:48	294	19:11
2024	Jun	16	(Sun)	05:43	06:06	66	12:27	77N	18:48	294	19:11
2024	Jun	17	(Mon)	05:43	06:06	66	12:27	77N	18:48	294	19:11
2024	Jun	18	(Tue)	05:43	06:06	66	12:27	77N	18:48	294	19:11
2024	Jun	19	(Wed)	05:44	06:07	66	12:28	77N	18:49	294	19:12
2024	Jun	20	(Thu)	05:44	06:07	66	12:28	77N	18:49	294	19:12
2024	Jun	21	(Fri)	05:44	06:07	66	12:28	77N	18:49	294	19:12
2024	Jun	22	(Sat)	05:44	06:07	66	12:28	77N	18:49	294	19:12
2024	Jun	23	(Sun)	05:44	06:08	66	12:29	77N	18:49	294	19:13
2024	Jun	24	(Mon)	05:45	06:08	66	12:29	77N	18:50	294	19:13
2024	Jun	25	(Tue)	05:45	06:08	66	12:29	77N	18:50	294	19:13
2024	Jun	26	(Wed)	05:45	06:08	66	12:29	77N	18:50	294	19:13
2024	Jun	27	(Thu)	05:45	06:08	66	12:29	77N	18:50	294	19:13
2024	Jun	28	(Fri)	05:46	06:09	66	12:30	77N	18:50	294	19:13
2024	Jun	29	(Sat)	05:46	06:09	66	12:30	77N	18:50	294	19:14
2024	Jun	30	(Sun)	05:46	06:09	66	12:30	77N	18:51	294	19:14
2024	Jul	01	(Mon)	05:46	06:09	66	12:30	77N	18:51	294	19:14
2024	Jul	02	(Tue)	05:47	06:10	66	12:30	78N	18:51	293	19:14
2024	Jul	03	(Wed)	05:47	06:10	67	12:31	78N	18:51	293	19:14
2024	Jul	04	(Thu)	05:47	06:10	67	12:31	78N	18:51	293	19:14
2024	Jul	05	(Fri)	05:48	06:10	67	12:31	78N	18:51	293	19:14
2024	Jul	06	(Sat)	05:48	06:11	67	12:31	78N	18:51	293	19:14
2024	Jul	07	(Sun)	05:48	06:11	67	12:31	78N	18:51	293	19:14
2024	Jul	08	(Mon)	05:48	06:11	67	12:31	78N	18:51	293	19:14
2024	Jul	09	(Tue)	05:49	06:12	67	12:32	78N	18:51	293	19:14
2024	Jul	10	(Wed)	05:49	06:12	67	12:32	78N	18:51	293	19:14
2024	Jul	11	(Thu)	05:49	06:12	67	12:32	79N	18:52	292	19:14
2024	Jul	12	(Fri)	05:49	06:12	68	12:32	79N	18:52	292	19:14
2024	Jul	13	(Sat)	05:50	06:12	68	12:32	79N	18:52	292	19:14
2024	Jul	14	(Sun)	05:50	06:13	68	12:32	79N	18:51	292	19:14
2024	Jul	15	(Mon)	05:50	06:13	68	12:32	79N	18:51	292	19:14
2024	Jul	16	(Tue)	05:50	06:13	68	12:32	79N	18:51	292	19:14
2024	Jul	17	(Wed)	05:51	06:13	68	12:32	79N	18:51	292	19:14
2024	Jul	18	(Thu)	05:51	06:14	69	12:32	80N	18:51	291	19:14
2024	Jul	19	(Fri)	05:51	06:14	69	12:33	80N	18:51	291	19:14
2024	Jul	20	(Sat)	05:51	06:14	69	12:33	80N	18:51	291	19:14
2024	Jul	21	(Sun)	05:52	06:14	69	12:33	80N	18:51	291	19:14
2024	Jul	22	(Mon)	05:52	06:14	69	12:33	80N	18:51	291	19:13
2024	Jul	23	(Tue)	05:52	06:15	70	12:33	81N	18:51	290	19:13
2024	Jul	24	(Wed)	05:52	06:15	70	12:33	81N	18:51	290	19:13
2024	Jul	25	(Thu)	05:53	06:15	70	12:33	81N	18:50	290	19:13
2024	Jul	26	(Fri)	05:53	06:15	70	12:33	81N	18:50	290	19:13
2024	Jul	27	(Sat)	05:53	06:15	70	12:33	81N	18:50	289	19:12
2024	Jul	28	(Sun)	05:53	06:16	71	12:33	82N	18:50	289	19:12
2024	Jul	29	(Mon)	05:53	06:16	71	12:33	82N	18:50	289	19:12
2024	Jul	30	(Tue)	05:54	06:16	71	12:33	82N	18:49	289	19:12

2024	Jul	31	(Wed)	05:54	06:16	71	12:33	82N	18:49	289	19:11
2024	Aug	01	(Thu)	05:54	06:16	72	12:33	83N	18:49	288	19:11
2024	Aug	02	(Fri)	05:54	06:16	72	12:32	83N	18:49	288	19:11
2024	Aug	03	(Sat)	05:54	06:16	72	12:32	83N	18:48	288	19:10
2024	Aug	04	(Sun)	05:54	06:17	72	12:32	83N	18:48	287	19:10
2024	Aug	05	(Mon)	05:55	06:17	73	12:32	84N	18:48	287	19:10
2024	Aug	06	(Tue)	05:55	06:17	73	12:32	84N	18:47	287	19:09
2024	Aug	07	(Wed)	05:55	06:17	73	12:32	84N	18:47	287	19:09
2024	Aug	08	(Thu)	05:55	06:17	74	12:32	85N	18:47	286	19:09
2024	Aug	09	(Fri)	05:55	06:17	74	12:32	85N	18:46	286	19:08
2024	Aug	10	(Sat)	05:55	06:17	74	12:32	85N	18:46	286	19:08
2024	Aug	11	(Sun)	05:55	06:17	74	12:31	85N	18:46	285	19:07
2024	Aug	12	(Mon)	05:55	06:17	75	12:31	86N	18:45	285	19:07
2024	Aug	13	(Tue)	05:56	06:17	75	12:31	86N	18:45	285	19:06
2024	Aug	14	(Wed)	05:56	06:17	75	12:31	86N	18:44	284	19:06
2024	Aug	15	(Thu)	05:56	06:17	76	12:31	87N	18:44	284	19:06
2024	Aug	16	(Fri)	05:56	06:17	76	12:30	87N	18:43	284	19:05
2024	Aug	17	(Sat)	05:56	06:17	76	12:30	87N	18:43	284	19:05
2024	Aug	18	(Sun)	05:56	06:17	77	12:30	88N	18:42	283	19:04
2024	Aug	19	(Mon)	05:56	06:17	77	12:30	88N	18:42	283	19:04
2024	Aug	20	(Tue)	05:56	06:17	77	12:30	88N	18:42	283	19:03
2024	Aug	21	(Wed)	05:56	06:17	78	12:29	89N	18:41	282	19:03
2024	Aug	22	(Thu)	05:56	06:17	78	12:29	89N	18:41	282	19:02
2024	Aug	23	(Fri)	05:56	06:17	78	12:29	89N	18:40	281	19:01
2024	Aug	24	(Sat)	05:56	06:17	79	12:29	90N	18:39	281	19:01
2024	Aug	25	(Sun)	05:56	06:17	79	12:28	90N	18:39	281	19:00
2024	Aug	26	(Mon)	05:56	06:17	79	12:28	90N	18:38	280	19:00
2024	Aug	27	(Tue)	05:56	06:17	80	12:28	91N	18:38	280	18:59
2024	Aug	28	(Wed)	05:56	06:17	80	12:27	90S	18:37	280	18:59
2024	Aug	29	(Thu)	05:56	06:17	80	12:27	90S	18:37	279	18:58
2024	Aug	30	(Fri)	05:56	06:17	81	12:27	90S	18:36	279	18:57
2024	Aug	31	(Sat)	05:56	06:17	81	12:26	89S	18:36	279	18:57
2024	Sep	01	(Sun)	05:56	06:17	82	12:26	89S	18:35	278	18:56
2024	Sep	02	(Mon)	05:56	06:17	82	12:26	89S	18:34	278	18:56
2024	Sep	03	(Tue)	05:56	06:17	82	12:25	88S	18:34	278	18:55
2024	Sep	04	(Wed)	05:56	06:17	83	12:25	88S	18:33	277	18:54
2024	Sep	05	(Thu)	05:56	06:17	83	12:25	87S	18:33	277	18:54
2024	Sep	06	(Fri)	05:56	06:17	83	12:24	87S	18:32	276	18:53
2024	Sep	07	(Sat)	05:56	06:17	84	12:24	87S	18:31	276	18:53
2024	Sep	08	(Sun)	05:56	06:17	84	12:24	86S	18:31	276	18:52
2024	Sep	09	(Mon)	05:55	06:17	85	12:23	86S	18:30	275	18:51
2024	Sep	10	(Tue)	05:55	06:16	85	12:23	86S	18:30	275	18:51
2024	Sep	11	(Wed)	05:55	06:16	85	12:23	85S	18:29	274	18:50
2024	Sep	12	(Thu)	05:55	06:16	86	12:22	85S	18:28	274	18:49
2024	Sep	13	(Fri)	05:55	06:16	86	12:22	84S	18:28	274	18:49
2024	Sep	14	(Sat)	05:55	06:16	86	12:22	84S	18:27	273	18:48
2024	Sep	15	(Sun)	05:55	06:16	87	12:21	84S	18:27	273	18:48
2024	Sep	16	(Mon)	05:55	06:16	87	12:21	83S	18:26	273	18:47
2024	Sep	17	(Tue)	05:55	06:16	88	12:21	83S	18:25	272	18:46
2024	Sep	18	(Wed)	05:55	06:16	88	12:20	83S	18:25	272	18:46
2024	Sep	19	(Thu)	05:55	06:16	88	12:20	82S	18:24	271	18:45
2024	Sep	20	(Fri)	05:55	06:16	89	12:20	82S	18:23	271	18:44
2024	Sep	21	(Sat)	05:55	06:15	89	12:19	81S	18:23	271	18:44
2024	Sep	22	(Sun)	05:54	06:15	90	12:19	81S	18:22	270	18:43
2024	Sep	23	(Mon)	05:54	06:15	90	12:18	81S	18:22	270	18:42
2024	Sep	24	(Tue)	05:54	06:15	90	12:18	80S	18:21	269	18:42
2024	Sep	25	(Wed)	05:54	06:15	91	12:18	80S	18:20	269	18:41
2024	Sep	26	(Thu)	05:54	06:15	91	12:17	79S	18:20	269	18:41
2024	Sep	27	(Fri)	05:54	06:15	92	12:17	79S	18:19	268	18:40
2024	Sep	28	(Sat)	05:54	06:15	92	12:17	79S	18:18	268	18:39
2024	Sep	29	(Sun)	05:54	06:15	92	12:16	78S	18:18	267	18:39
2024	Sep	30	(Mon)	05:54	06:15	93	12:16	78S	18:17	267	18:38
2024	Oct	01	(Tue)	05:54	06:15	93	12:16	77S	18:17	267	18:38
2024	Oct	02	(Wed)	05:54	06:15	94	12:15	77S	18:16	266	18:37
2024	Oct	03	(Thu)	05:54	06:15	94	12:15	77S	18:16	266	18:37
2024	Oct	04	(Fri)	05:54	06:15	94	12:15	76S	18:15	265	18:36
2024	Oct	05	(Sat)	05:54	06:15	95	12:15	76S	18:14	265	18:35

2024	Oct	06	(Sun)	05:54	06:15	95	12:14	76S	18:14	265	18:35
2024	Oct	07	(Mon)	05:53	06:15	96	12:14	75S	18:13	264	18:34
2024	Oct	08	(Tue)	05:53	06:15	96	12:14	75S	18:13	264	18:34
2024	Oct	09	(Wed)	05:53	06:15	96	12:13	74S	18:12	264	18:33
2024	Oct	10	(Thu)	05:53	06:15	97	12:13	74S	18:12	263	18:33
2024	Oct	11	(Fri)	05:53	06:15	97	12:13	74S	18:11	263	18:32
2024	Oct	12	(Sat)	05:53	06:15	97	12:13	73S	18:11	262	18:32
2024	Oct	13	(Sun)	05:53	06:15	98	12:12	73S	18:10	262	18:31
2024	Oct	14	(Mon)	05:53	06:15	98	12:12	73S	18:10	262	18:31
2024	Oct	15	(Tue)	05:53	06:15	99	12:12	72S	18:09	261	18:30
2024	Oct	16	(Wed)	05:53	06:15	99	12:12	72S	18:09	261	18:30
2024	Oct	17	(Thu)	05:53	06:15	99	12:12	71S	18:08	260	18:29
2024	Oct	18	(Fri)	05:53	06:15	100	12:11	71S	18:08	260	18:29
2024	Oct	19	(Sat)	05:54	06:15	100	12:11	71S	18:07	260	18:29
2024	Oct	20	(Sun)	05:54	06:15	100	12:11	70S	18:07	259	18:28
2024	Oct	21	(Mon)	05:54	06:15	101	12:11	70S	18:06	259	18:28
2024	Oct	22	(Tue)	05:54	06:15	101	12:11	70S	18:06	259	18:27
2024	Oct	23	(Wed)	05:54	06:15	102	12:10	69S	18:06	258	18:27
2024	Oct	24	(Thu)	05:54	06:15	102	12:10	69S	18:05	258	18:27
2024	Oct	25	(Fri)	05:54	06:15	102	12:10	69S	18:05	258	18:26
2024	Oct	26	(Sat)	05:54	06:16	103	12:10	68S	18:05	257	18:26
2024	Oct	27	(Sun)	05:54	06:16	103	12:10	68S	18:04	257	18:26
2024	Oct	28	(Mon)	05:54	06:16	103	12:10	68S	18:04	257	18:25
2024	Oct	29	(Tue)	05:54	06:16	104	12:10	67S	18:04	256	18:25
2024	Oct	30	(Wed)	05:55	06:16	104	12:10	67S	18:03	256	18:25
2024	Oct	31	(Thu)	05:55	06:16	104	12:10	67S	18:03	256	18:25
2024	Nov	01	(Fri)	05:55	06:17	105	12:10	66S	18:03	255	18:25
2024	Nov	02	(Sat)	05:55	06:17	105	12:10	66S	18:03	255	18:24
2024	Nov	03	(Sun)	05:55	06:17	105	12:10	66S	18:02	255	18:24
2024	Nov	04	(Mon)	05:56	06:17	106	12:10	65S	18:02	254	18:24
2024	Nov	05	(Tue)	05:56	06:17	106	12:10	65S	18:02	254	18:24
2024	Nov	06	(Wed)	05:56	06:18	106	12:10	65S	18:02	254	18:24
2024	Nov	07	(Thu)	05:56	06:18	106	12:10	64S	18:02	253	18:23
2024	Nov	08	(Fri)	05:56	06:18	107	12:10	64S	18:02	253	18:23
2024	Nov	09	(Sat)	05:57	06:19	107	12:10	64S	18:01	253	18:23
2024	Nov	10	(Sun)	05:57	06:19	107	12:10	64S	18:01	253	18:23
2024	Nov	11	(Mon)	05:57	06:19	108	12:10	63S	18:01	252	18:23
2024	Nov	12	(Tue)	05:58	06:20	108	12:10	63S	18:01	252	18:23
2024	Nov	13	(Wed)	05:58	06:20	108	12:11	63S	18:01	252	18:23
2024	Nov	14	(Thu)	05:58	06:20	108	12:11	63S	18:01	251	18:23
2024	Nov	15	(Fri)	05:58	06:21	109	12:11	62S	18:01	251	18:23
2024	Nov	16	(Sat)	05:59	06:21	109	12:11	62S	18:01	251	18:23
2024	Nov	17	(Sun)	05:59	06:21	109	12:11	62S	18:01	251	18:23
2024	Nov	18	(Mon)	05:59	06:22	109	12:11	62S	18:01	250	18:23
2024	Nov	19	(Tue)	06:00	06:22	110	12:12	61S	18:01	250	18:23
2024	Nov	20	(Wed)	06:00	06:22	110	12:12	61S	18:01	250	18:23
2024	Nov	21	(Thu)	06:01	06:23	110	12:12	61S	18:01	250	18:24
2024	Nov	22	(Fri)	06:01	06:23	110	12:12	61S	18:01	250	18:24
2024	Nov	23	(Sat)	06:01	06:24	111	12:13	60S	18:01	249	18:24
2024	Nov	24	(Sun)	06:02	06:24	111	12:13	60S	18:02	249	18:24
2024	Nov	25	(Mon)	06:02	06:25	111	12:13	60S	18:02	249	18:24
2024	Nov	26	(Tue)	06:03	06:25	111	12:14	60S	18:02	249	18:24
2024	Nov	27	(Wed)	06:03	06:26	111	12:14	60S	18:02	249	18:25
2024	Nov	28	(Thu)	06:04	06:26	112	12:14	59S	18:02	248	18:25
2024	Nov	29	(Fri)	06:04	06:26	112	12:15	59S	18:03	248	18:25
2024	Nov	30	(Sat)	06:04	06:27	112	12:15	59S	18:03	248	18:25
2024	Dec	01	(Sun)	06:05	06:27	112	12:15	59S	18:03	248	18:26
2024	Dec	02	(Mon)	06:05	06:28	112	12:16	59S	18:03	248	18:26
2024	Dec	03	(Tue)	06:06	06:28	112	12:16	59S	18:04	248	18:26
2024	Dec	04	(Wed)	06:06	06:29	112	12:16	59S	18:04	247	18:27
2024	Dec	05	(Thu)	06:07	06:30	113	12:17	58S	18:04	247	18:27
2024	Dec	06	(Fri)	06:07	06:30	113	12:17	58S	18:05	247	18:27
2024	Dec	07	(Sat)	06:08	06:31	113	12:18	58S	18:05	247	18:28
2024	Dec	08	(Sun)	06:08	06:31	113	12:18	58S	18:05	247	18:28
2024	Dec	09	(Mon)	06:09	06:32	113	12:19	58S	18:06	247	18:28
2024	Dec	10	(Tue)	06:09	06:32	113	12:19	58S	18:06	247	18:29
2024	Dec	11	(Wed)	06:10	06:33	113	12:20	58S	18:06	247	18:29

2024	Dec 12	(Thu)	06:10	06:33	113	12:20	58S	18:07	247	18:30
2024	Dec 13	(Fri)	06:11	06:34	113	12:20	58S	18:07	247	18:30
2024	Dec 14	(Sat)	06:11	06:34	113	12:21	58S	18:08	247	18:30
2024	Dec 15	(Sun)	06:12	06:35	113	12:21	58S	18:08	246	18:31
2024	Dec 16	(Mon)	06:12	06:35	114	12:22	58S	18:09	246	18:31
2024	Dec 17	(Tue)	06:13	06:36	114	12:22	58S	18:09	246	18:32
2024	Dec 18	(Wed)	06:13	06:36	114	12:23	57S	18:09	246	18:32
2024	Dec 19	(Thu)	06:14	06:37	114	12:23	57S	18:10	246	18:33
2024	Dec 20	(Fri)	06:14	06:37	114	12:24	57S	18:10	246	18:33
2024	Dec 21	(Sat)	06:15	06:38	114	12:24	57S	18:11	246	18:34
2024	Dec 22	(Sun)	06:15	06:38	114	12:25	57S	18:11	246	18:34
2024	Dec 23	(Mon)	06:16	06:39	114	12:25	57S	18:12	246	18:35
2024	Dec 24	(Tue)	06:16	06:39	114	12:26	57S	18:12	246	18:35
2024	Dec 25	(Wed)	06:17	06:40	114	12:26	57S	18:13	246	18:36
2024	Dec 26	(Thu)	06:17	06:40	114	12:27	58S	18:14	246	18:36
2024	Dec 27	(Fri)	06:18	06:41	114	12:27	58S	18:14	246	18:37
2024	Dec 28	(Sat)	06:18	06:41	113	12:28	58S	18:15	247	18:37
2024	Dec 29	(Sun)	06:19	06:42	113	12:28	58S	18:15	247	18:38
2024	Dec 30	(Mon)	06:19	06:42	113	12:29	58S	18:16	247	18:38
2024	Dec 31	(Tue)	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	°
2024	Jan	01	(Mon)	22:42	81	04:18	87N	10:36	282
2024	Jan	02	(Tue)	23:25	86	04:58	89S	11:12	276
2024	Jan	03	(Wed)			05:37	83S	11:47	271
2024	Jan	04	(Thu)	00:08	92	06:16	77S	12:22	265
2024	Jan	05	(Fri)	00:52	98	06:57	71S	12:59	259
2024	Jan	06	(Sat)	01:39	104	07:39	66S	13:38	254
2024	Jan	07	(Sun)	02:29	109	08:26	61S	14:22	249
2024	Jan	08	(Mon)	03:23	114	09:18	56S	15:12	245
2024	Jan	09	(Tue)	04:22	117	10:15	53S	16:08	242
2024	Jan	10	(Wed)	05:24	119	11:17	52S	17:10	241
2024	Jan	11	(Thu)	06:27	118	12:21	53S	18:15	243
2024	Jan	12	(Fri)	07:28	116	13:23	56S	19:20	246
2024	Jan	13	(Sat)	08:25	111	14:23	61S	20:23	251
2024	Jan	14	(Sun)	09:17	106	15:18	67S	21:22	258
2024	Jan	15	(Mon)	10:04	99	16:10	73S	22:17	265
2024	Jan	16	(Tue)	10:48	92	16:58	81S	23:11	272
2024	Jan	17	(Wed)	11:31	85	17:46	88S		
2024	Jan	18	(Thu)	12:14	78	18:34	87N	00:04	279
2024	Jan	19	(Fri)	12:59	72	19:24	82N	00:56	285
2024	Jan	20	(Sat)	13:46	67	20:15	77N	01:51	290
2024	Jan	21	(Sun)	14:36	64	21:09	74N	02:46	295
2024	Jan	22	(Mon)	15:29	62	22:04	72N	03:43	297
2024	Jan	23	(Tue)	16:24	61	22:59	72N	04:40	299
2024	Jan	24	(Wed)	17:19	63	23:53	74N	05:34	298
2024	Jan	25	(Thu)	18:13	65			06:25	296
2024	Jan	26	(Fri)	19:04	69	00:43	77N	07:12	293
2024	Jan	27	(Sat)	19:52	74	01:30	81N	07:55	289
2024	Jan	28	(Sun)	20:37	79	02:14	85N	08:34	284
2024	Jan	29	(Mon)	21:21	84	02:55	91S	09:10	278
2024	Jan	30	(Tue)	22:04	90	03:34	85S	09:46	273
2024	Jan	31	(Wed)	22:47	96	04:13	79S	10:20	267
2024	Feb	01	(Thu)	23:32	102	04:52	73S	10:56	261
2024	Feb	02	(Fri)			05:33	68S	11:33	256
2024	Feb	03	(Sat)	00:19	107	06:17	62S	12:14	251
2024	Feb	04	(Sun)	01:10	112	07:05	58S	13:00	246

2024 Feb 05 (Mon)	02:05 116	07:59 54S	13:51 243
2024 Feb 06 (Tue)	03:04 118	08:57 52S	14:49 241
2024 Feb 07 (Wed)	04:06 119	09:59 52S	15:52 242
2024 Feb 08 (Thu)	05:08 117	11:02 54S	16:57 244
2024 Feb 09 (Fri)	06:07 114	12:04 58S	18:02 248
2024 Feb 10 (Sat)	07:02 109	13:02 63S	19:04 254
2024 Feb 11 (Sun)	07:53 102	13:57 70S	20:03 261
2024 Feb 12 (Mon)	08:40 95	14:49 78S	21:00 269
2024 Feb 13 (Tue)	09:25 88	15:39 85S	21:55 276
2024 Feb 14 (Wed)	10:10 80	16:28 89N	22:50 283
2024 Feb 15 (Thu)	10:55 74	17:19 83N	23:45 289
2024 Feb 16 (Fri)	11:43 69	18:11 78N	
2024 Feb 17 (Sat)	12:32 65	19:05 74N	00:41 294
2024 Feb 18 (Sun)	13:25 62	20:00 72N	01:38 297
2024 Feb 19 (Mon)	14:20 61	20:55 72N	02:35 299
2024 Feb 20 (Tue)	15:14 62	21:49 73N	03:30 299
2024 Feb 21 (Wed)	16:08 64	22:40 76N	04:22 297
2024 Feb 22 (Thu)	16:59 67	23:27 79N	05:10 294
2024 Feb 23 (Fri)	17:48 72		05:53 290
2024 Feb 24 (Sat)	18:34 77	00:12 84N	06:33 286
2024 Feb 25 (Sun)	19:18 83	00:53 89N	07:10 280
2024 Feb 26 (Mon)	20:02 88	01:33 87S	07:46 275
2024 Feb 27 (Tue)	20:45 94	02:12 81S	08:21 269
2024 Feb 28 (Wed)	21:28 100	02:51 75S	08:56 263
2024 Feb 29 (Thu)	22:14 105	03:31 69S	09:32 257
2024 Mar 01 (Fri)	23:03 110	04:14 64S	10:11 252
2024 Mar 02 (Sat)	23:55 115	04:59 59S	10:54 248
2024 Mar 03 (Sun)		05:49 55S	11:42 244
2024 Mar 04 (Mon)	00:51 117	06:44 53S	12:35 242
2024 Mar 05 (Tue)	01:50 119	07:42 52S	13:34 241
2024 Mar 06 (Wed)	02:50 118	08:43 53S	14:36 242
2024 Mar 07 (Thu)	03:49 116	09:44 56S	15:40 246
2024 Mar 08 (Fri)	04:45 112	10:43 60S	16:42 251
2024 Mar 09 (Sat)	05:38 106	11:39 66S	17:43 257
2024 Mar 10 (Sun)	06:27 99	12:33 74S	18:41 265
2024 Mar 11 (Mon)	07:13 91	13:24 81S	19:38 272
2024 Mar 12 (Tue)	07:59 84	14:16 89S	20:35 280
2024 Mar 13 (Wed)	08:46 77	15:08 86N	21:32 286
2024 Mar 14 (Thu)	09:34 71	16:01 80N	22:30 292
2024 Mar 15 (Fri)	10:25 66	16:56 76N	23:29 296
2024 Mar 16 (Sat)	11:18 63	17:53 73N	
2024 Mar 17 (Sun)	12:13 61	18:49 72N	00:28 298
2024 Mar 18 (Mon)	13:09 61	19:44 72N	01:25 299
2024 Mar 19 (Tue)	14:04 63	20:36 74N	02:19 298
2024 Mar 20 (Wed)	14:56 66	21:25 78N	03:08 295
2024 Mar 21 (Thu)	15:45 70	22:10 82N	03:52 292
2024 Mar 22 (Fri)	16:32 75	22:53 87N	04:33 287
2024 Mar 23 (Sat)	17:17 81	23:33 89S	05:11 282
2024 Mar 24 (Sun)	18:00 86		05:47 276
2024 Mar 25 (Mon)	18:43 92	00:12 83S	06:22 271
2024 Mar 26 (Tue)	19:27 98	00:51 77S	06:57 265
2024 Mar 27 (Wed)	20:12 104	01:31 71S	07:33 259
2024 Mar 28 (Thu)	21:00 109	02:12 66S	08:11 254
2024 Mar 29 (Fri)	21:51 113	02:57 61S	08:52 249
2024 Mar 30 (Sat)	22:45 117	03:45 56S	09:38 245
2024 Mar 31 (Sun)	23:42 119	04:37 53S	10:29 242
2024 Apr 01 (Mon)		05:33 52S	11:25 241
2024 Apr 02 (Tue)	00:40 119	06:32 52S	12:24 242
2024 Apr 03 (Wed)	01:38 117	07:31 54S	13:25 244
2024 Apr 04 (Thu)	02:33 114	08:29 58S	14:26 248
2024 Apr 05 (Fri)	03:25 109	09:24 63S	15:25 254
2024 Apr 06 (Sat)	04:14 103	10:17 70S	16:23 261
2024 Apr 07 (Sun)	05:00 95	11:09 77S	17:19 268
2024 Apr 08 (Mon)	05:46 88	12:00 85S	18:16 276
2024 Apr 09 (Tue)	06:32 80	12:51 89N	19:13 283
2024 Apr 10 (Wed)	07:20 74	13:45 83N	20:12 289
2024 Apr 11 (Thu)	08:11 68	14:41 77N	21:13 294

2024 Apr 12 (Fri)	09:05 64	15:39 74N	22:14 298
2024 Apr 13 (Sat)	10:02 62	16:38 72N	23:14 299
2024 Apr 14 (Sun)	10:59 61	17:35 72N	
2024 Apr 15 (Mon)	11:56 62	18:30 73N	00:11 299
2024 Apr 16 (Tue)	12:50 65	19:21 76N	01:03 297
2024 Apr 17 (Wed)	13:41 69	20:07 81N	01:50 293
2024 Apr 18 (Thu)	14:29 73	20:51 85N	02:32 289
2024 Apr 19 (Fri)	15:14 79	21:32 91S	03:11 284
2024 Apr 20 (Sat)	15:58 84	22:11 85S	03:47 278
2024 Apr 21 (Sun)	16:41 90	22:50 79S	04:22 273
2024 Apr 22 (Mon)	17:24 96	23:29 73S	04:57 267
2024 Apr 23 (Tue)	18:09 102		05:33 261
2024 Apr 24 (Wed)	18:56 107	00:10 67S	06:10 255
2024 Apr 25 (Thu)	19:47 112	00:54 62S	06:51 250
2024 Apr 26 (Fri)	20:40 116	01:42 58S	07:36 246
2024 Apr 27 (Sat)	21:37 118	02:33 54S	08:26 243
2024 Apr 28 (Sun)	22:35 119	03:29 52S	09:20 241
2024 Apr 29 (Mon)	23:32 118	04:26 52S	10:18 241
2024 Apr 30 (Tue)		05:25 53S	11:18 243
2024 May 01 (Wed)	00:27 115	06:22 56S	12:17 247
2024 May 02 (Thu)	01:19 111	07:16 61S	13:15 252
2024 May 03 (Fri)	02:07 105	08:08 67S	14:12 258
2024 May 04 (Sat)	02:53 99	08:58 74S	15:06 265
2024 May 05 (Sun)	03:37 91	09:48 81S	16:01 272
2024 May 06 (Mon)	04:21 84	10:38 89S	16:57 280
2024 May 07 (Tue)	05:08 77	11:29 86N	17:54 286
2024 May 08 (Wed)	05:57 71	12:24 80N	18:54 292
2024 May 09 (Thu)	06:49 66	13:21 75N	19:55 296
2024 May 10 (Fri)	07:46 63	14:21 73N	20:57 298
2024 May 11 (Sat)	08:44 61	15:21 72N	21:57 299
2024 May 12 (Sun)	09:43 62	16:18 73N	22:53 297
2024 May 13 (Mon)	10:40 64	17:12 75N	23:43 295
2024 May 14 (Tue)	11:33 67	18:01 79N	
2024 May 15 (Wed)	12:23 72	18:47 84N	00:28 291
2024 May 16 (Thu)	13:09 77	19:29 89N	01:08 286
2024 May 17 (Fri)	13:54 82	20:08 87S	01:46 280
2024 May 18 (Sat)	14:37 88	20:47 81S	02:21 275
2024 May 19 (Sun)	15:20 94	21:26 75S	02:56 269
2024 May 20 (Mon)	16:04 100	22:07 69S	03:31 263
2024 May 21 (Tue)	16:50 105	22:50 64S	04:08 257
2024 May 22 (Wed)	17:40 110	23:37 59S	04:48 252
2024 May 23 (Thu)	18:33 115		05:32 247
2024 May 24 (Fri)	19:30 117	00:27 55S	06:20 244
2024 May 25 (Sat)	20:28 119	01:22 53S	07:14 242
2024 May 26 (Sun)	21:27 118	02:20 52S	08:12 241
2024 May 27 (Mon)	22:23 116	03:19 53S	09:12 242
2024 May 28 (Tue)	23:16 112	04:17 55S	10:12 246
2024 May 29 (Wed)		05:12 60S	11:11 250
2024 May 30 (Thu)	00:05 107	06:05 65S	12:07 256
2024 May 31 (Fri)	00:50 101	06:54 72S	13:01 263
2024 Jun 01 (Sat)	01:34 94	07:42 79S	13:54 270
2024 Jun 02 (Sun)	02:17 87	08:30 86S	14:47 277
2024 Jun 03 (Mon)	03:01 80	09:20 89N	15:42 284
2024 Jun 04 (Tue)	03:47 73	10:12 82N	16:39 290
2024 Jun 05 (Wed)	04:37 68	11:07 77N	17:39 294
2024 Jun 06 (Thu)	05:31 64	12:05 74N	18:40 298
2024 Jun 07 (Fri)	06:28 62	13:05 72N	19:41 299
2024 Jun 08 (Sat)	07:28 61	14:04 72N	20:40 298
2024 Jun 09 (Sun)	08:26 63	15:00 74N	21:33 296
2024 Jun 10 (Mon)	09:22 66	15:52 77N	22:21 292
2024 Jun 11 (Tue)	10:14 70	16:40 82N	23:04 288
2024 Jun 12 (Wed)	11:02 75	17:24 87N	23:43 283
2024 Jun 13 (Thu)	11:48 80	18:04 89S	
2024 Jun 14 (Fri)	12:31 86	18:44 83S	00:19 277
2024 Jun 15 (Sat)	13:14 92	19:23 77S	00:54 271
2024 Jun 16 (Sun)	13:58 98	20:02 72S	01:29 265
2024 Jun 17 (Mon)	14:43 103	20:44 66S	02:05 260

2024 Jun 18 (Tue)	15:31 109	21:29 61S	02:43 254
2024 Jun 19 (Wed)	16:23 113	22:18 57S	03:25 249
2024 Jun 20 (Thu)	17:19 116	23:12 54S	04:12 245
2024 Jun 21 (Fri)	18:17 118		05:04 242
2024 Jun 22 (Sat)	19:17 119	00:09 52S	06:01 241
2024 Jun 23 (Sun)	20:16 117	01:09 52S	07:02 242
2024 Jun 24 (Mon)	21:11 113	02:09 54S	08:04 244
2024 Jun 25 (Tue)	22:02 108	03:07 58S	09:04 249
2024 Jun 26 (Wed)	22:49 102	04:01 64S	10:02 254
2024 Jun 27 (Thu)	23:33 96	04:52 70S	10:57 261
2024 Jun 28 (Fri)		05:40 77S	11:50 268
2024 Jun 29 (Sat)	00:16 89	06:28 84S	12:43 275
2024 Jun 30 (Sun)	00:59 82	07:16 91N	13:36 282
2024 Jul 01 (Mon)	01:43 75	08:06 84N	14:31 288
2024 Jul 02 (Tue)	02:31 70	08:59 79N	15:29 293
2024 Jul 03 (Wed)	03:22 65	09:54 75N	16:29 297
2024 Jul 04 (Thu)	04:17 62	10:53 72N	17:29 299
2024 Jul 05 (Fri)	05:15 61	11:52 72N	18:28 299
2024 Jul 06 (Sat)	06:14 62	12:49 73N	19:23 297
2024 Jul 07 (Sun)	07:11 64	13:43 76N	20:13 294
2024 Jul 08 (Mon)	08:04 68	14:32 80N	20:58 290
2024 Jul 09 (Tue)	08:55 73	15:18 85N	21:39 285
2024 Jul 10 (Wed)	09:41 78	16:00 90N	22:16 279
2024 Jul 11 (Thu)	10:26 84	16:40 85S	22:51 273
2024 Jul 12 (Fri)	11:09 90	17:19 80S	23:26 267
2024 Jul 13 (Sat)	11:52 96	17:58 74S	
2024 Jul 14 (Sun)	12:36 101	18:38 68S	00:01 262
2024 Jul 15 (Mon)	13:22 107	19:21 63S	00:38 256
2024 Jul 16 (Tue)	14:12 111	20:08 58S	01:18 251
2024 Jul 17 (Wed)	15:05 115	20:59 55S	02:02 247
2024 Jul 18 (Thu)	16:02 118	21:55 52S	02:52 243
2024 Jul 19 (Fri)	17:02 119	22:54 52S	03:47 241
2024 Jul 20 (Sat)	18:02 118	23:55 53S	04:47 241
2024 Jul 21 (Sun)	19:00 115		05:49 243
2024 Jul 22 (Mon)	19:54 111	00:55 57S	06:52 247
2024 Jul 23 (Tue)	20:44 105	01:52 61S	07:52 252
2024 Jul 24 (Wed)	21:30 98	02:46 68S	08:50 259
2024 Jul 25 (Thu)	22:14 91	03:36 75S	09:45 266
2024 Jul 26 (Fri)	22:57 84	04:25 82S	10:39 273
2024 Jul 27 (Sat)	23:42 77	05:14 89S	11:32 280
2024 Jul 28 (Sun)		06:03 86N	12:27 286
2024 Jul 29 (Mon)	00:28 71	06:55 80N	13:24 292
2024 Jul 30 (Tue)	01:18 66	07:49 76N	14:22 296
2024 Jul 31 (Wed)	02:11 63	08:46 73N	15:22 298
2024 Aug 01 (Thu)	03:08 61	09:44 72N	16:20 299
2024 Aug 02 (Fri)	04:05 61	10:41 72N	17:16 298
2024 Aug 03 (Sat)	05:02 63	11:35 75N	18:07 295
2024 Aug 04 (Sun)	05:57 67	12:26 78N	18:53 291
2024 Aug 05 (Mon)	06:48 71	13:13 83N	19:35 286
2024 Aug 06 (Tue)	07:36 76	13:56 88N	20:14 281
2024 Aug 07 (Wed)	08:21 82	14:37 88S	20:50 275
2024 Aug 08 (Thu)	09:05 88	15:16 82S	21:25 269
2024 Aug 09 (Fri)	09:48 93	15:55 76S	21:59 264
2024 Aug 10 (Sat)	10:31 99	16:34 70S	22:35 258
2024 Aug 11 (Sun)	11:16 105	17:15 65S	23:13 253
2024 Aug 12 (Mon)	12:03 110	18:00 60S	23:55 248
2024 Aug 13 (Tue)	12:54 114	18:48 56S	
2024 Aug 14 (Wed)	13:48 117	19:41 53S	00:41 244
2024 Aug 15 (Thu)	14:46 119	20:38 52S	01:32 242
2024 Aug 16 (Fri)	15:45 119	21:37 52S	02:29 241
2024 Aug 17 (Sat)	16:44 117	22:38 55S	03:30 242
2024 Aug 18 (Sun)	17:40 113	23:36 59S	04:33 245
2024 Aug 19 (Mon)	18:32 108		05:35 249
2024 Aug 20 (Tue)	19:21 101	00:32 65S	06:35 256
2024 Aug 21 (Wed)	20:07 94	01:26 72S	07:33 263
2024 Aug 22 (Thu)	20:52 86	02:17 79S	08:29 270
2024 Aug 23 (Fri)	21:38 79	03:07 86S	09:24 278

2024 Aug 24 (Sat)	22:25	73	03:58	88N	10:20	284
2024 Aug 25 (Sun)	23:14	67	04:50	82N	11:18	290
2024 Aug 26 (Mon)			05:44	77N	12:17	295
2024 Aug 27 (Tue)	00:07	63	06:41	73N	13:17	298
2024 Aug 28 (Wed)	01:03	61	07:39	72N	14:16	299
2024 Aug 29 (Thu)	02:00	61	08:36	72N	15:12	298
2024 Aug 30 (Fri)	02:57	62	09:31	74N	16:04	296
2024 Aug 31 (Sat)	03:52	65	10:23	77N	16:51	293
2024 Sep 01 (Sun)	04:44	69	11:10	81N	17:34	288
2024 Sep 02 (Mon)	05:32	74	11:54	86N	18:13	283
2024 Sep 03 (Tue)	06:18	80	12:35	90S	18:50	277
2024 Sep 04 (Wed)	07:02	86	13:14	84S	19:25	271
2024 Sep 05 (Thu)	07:45	92	13:53	78S	19:59	266
2024 Sep 06 (Fri)	08:28	97	14:32	72S	20:35	260
2024 Sep 07 (Sat)	09:12	103	15:13	66S	21:11	254
2024 Sep 08 (Sun)	09:58	108	15:55	61S	21:51	250
2024 Sep 09 (Mon)	10:47	113	16:41	57S	22:35	246
2024 Sep 10 (Tue)	11:39	116	17:31	54S	23:23	243
2024 Sep 11 (Wed)	12:34	118	18:25	52S		
2024 Sep 12 (Thu)	13:31	119	19:22	52S	00:16	241
2024 Sep 13 (Fri)	14:29	118	20:21	53S	01:14	241
2024 Sep 14 (Sat)	15:25	115	21:19	56S	02:14	243
2024 Sep 15 (Sun)	16:18	111	22:16	61S	03:15	247
2024 Sep 16 (Mon)	17:08	105	23:10	68S	04:16	252
2024 Sep 17 (Tue)	17:55	97			05:14	259
2024 Sep 18 (Wed)	18:41	90	00:02	75S	06:12	266
2024 Sep 19 (Thu)	19:28	82	00:54	83S	07:09	274
2024 Sep 20 (Fri)	20:15	75	01:45	90S	08:06	281
2024 Sep 21 (Sat)	21:06	69	02:39	84N	09:05	288
2024 Sep 22 (Sun)	21:59	65	03:35	79N	10:06	293
2024 Sep 23 (Mon)	22:56	62	04:33	74N	11:07	297
2024 Sep 24 (Tue)	23:54	61	05:32	72N	12:09	299
2024 Sep 25 (Wed)			06:31	72N	13:07	299
2024 Sep 26 (Thu)	00:52	62	07:27	73N	14:01	297
2024 Sep 27 (Fri)	01:48	64	08:20	76N	14:50	294
2024 Sep 28 (Sat)	02:41	68	09:08	80N	15:34	290
2024 Sep 29 (Sun)	03:30	73	09:53	85N	16:14	285
2024 Sep 30 (Mon)	04:16	78	10:35	90N	16:51	279
2024 Oct 01 (Tue)	05:00	84	11:14	86S	17:26	273
2024 Oct 02 (Wed)	05:43	90	11:53	80S	18:00	268
2024 Oct 03 (Thu)	06:26	95	12:32	74S	18:35	262
2024 Oct 04 (Fri)	07:10	101	13:12	68S	19:12	256
2024 Oct 05 (Sat)	07:55	107	13:54	63S	19:50	251
2024 Oct 06 (Sun)	08:43	111	14:38	58S	20:32	247
2024 Oct 07 (Mon)	09:34	115	15:27	55S	21:19	243
2024 Oct 08 (Tue)	10:27	118	16:19	53S	22:10	241
2024 Oct 09 (Wed)	11:23	119	17:14	52S	23:04	241
2024 Oct 10 (Thu)	12:19	119	18:10	52S		
2024 Oct 11 (Fri)	13:13	117	19:07	55S	00:02	242
2024 Oct 12 (Sat)	14:06	113	20:02	59S	01:01	245
2024 Oct 13 (Sun)	14:56	108	20:55	65S	01:59	249
2024 Oct 14 (Mon)	15:43	101	21:47	71S	02:57	255
2024 Oct 15 (Tue)	16:28	94	22:38	79S	03:53	262
2024 Oct 16 (Wed)	17:14	86	23:29	86S	04:49	270
2024 Oct 17 (Thu)	18:01	79			05:46	277
2024 Oct 18 (Fri)	18:51	72	00:22	88N	06:45	285
2024 Oct 19 (Sat)	19:45	67	01:18	81N	07:47	291
2024 Oct 20 (Sun)	20:42	63	02:16	76N	08:50	296
2024 Oct 21 (Mon)	21:42	61	03:18	73N	09:54	298
2024 Oct 22 (Tue)	22:42	61	04:19	72N	10:56	299
2024 Oct 23 (Wed)	23:41	63	05:19	72N	11:54	298
2024 Oct 24 (Thu)			06:14	75N	12:46	295
2024 Oct 25 (Fri)	00:35	67	07:05	78N	13:32	291
2024 Oct 26 (Sat)	01:26	71	07:51	83N	14:13	286
2024 Oct 27 (Sun)	02:14	76	08:34	88N	14:51	281
2024 Oct 28 (Mon)	02:58	82	09:14	88S	15:27	275
2024 Oct 29 (Tue)	03:42	88	09:53	82S	16:02	269

2024	Oct	30	(Wed)	04:24	94	10:31	76S	16:36	264
2024	Oct	31	(Thu)	05:08	99	11:11	70S	17:12	258
2024	Nov	01	(Fri)	05:53	105	11:52	65S	17:50	253
2024	Nov	02	(Sat)	06:40	110	12:36	60S	18:31	248
2024	Nov	03	(Sun)	07:30	114	13:24	56S	19:17	244
2024	Nov	04	(Mon)	08:23	117	14:15	53S	20:06	242
2024	Nov	05	(Tue)	09:18	119	15:09	52S	21:00	241
2024	Nov	06	(Wed)	10:14	119	16:05	52S	21:56	242
2024	Nov	07	(Thu)	11:08	117	17:00	54S	22:54	244
2024	Nov	08	(Fri)	12:00	114	17:55	57S	23:51	248
2024	Nov	09	(Sat)	12:49	110	18:47	62S		
2024	Nov	10	(Sun)	13:35	104	19:37	68S	00:46	253
2024	Nov	11	(Mon)	14:20	97	20:26	75S	01:41	259
2024	Nov	12	(Tue)	15:03	90	21:15	83S	02:35	266
2024	Nov	13	(Wed)	15:48	83	22:06	90S	03:29	274
2024	Nov	14	(Thu)	16:36	76	22:59	85N	04:26	281
2024	Nov	15	(Fri)	17:27	69	23:56	79N	05:25	288
2024	Nov	16	(Sat)	18:23	65			06:28	293
2024	Nov	17	(Sun)	19:23	62	00:57	74N	07:33	297
2024	Nov	18	(Mon)	20:25	61	02:00	72N	08:37	299
2024	Nov	19	(Tue)	21:27	62	03:02	72N	09:39	299
2024	Nov	20	(Wed)	22:25	65	04:02	74N	10:35	296
2024	Nov	21	(Thu)	23:19	69	04:56	77N	11:25	293
2024	Nov	22	(Fri)			05:45	81N	12:10	288
2024	Nov	23	(Sat)	00:08	74	06:30	86N	12:49	283
2024	Nov	24	(Sun)	00:55	80	07:11	89S	13:26	277
2024	Nov	25	(Mon)	01:38	86	07:51	84S	14:01	271
2024	Nov	26	(Tue)	02:21	92	08:30	78S	14:36	266
2024	Nov	27	(Wed)	03:04	97	09:09	72S	15:11	260
2024	Nov	28	(Thu)	03:49	103	09:49	66S	15:48	254
2024	Nov	29	(Fri)	04:35	108	10:33	61S	16:29	250
2024	Nov	30	(Sat)	05:24	113	11:19	57S	17:13	246
2024	Dec	01	(Sun)	06:17	116	12:10	54S	18:02	243
2024	Dec	02	(Mon)	07:12	118	13:04	52S	18:55	241
2024	Dec	03	(Tue)	08:09	119	14:00	52S	19:51	241
2024	Dec	04	(Wed)	09:04	118	14:56	53S	20:49	243
2024	Dec	05	(Thu)	09:57	115	15:51	56S	21:46	247
2024	Dec	06	(Fri)	10:47	111	16:44	61S	22:42	251
2024	Dec	07	(Sat)	11:33	106	17:33	67S	23:36	257
2024	Dec	08	(Sun)	12:17	99	18:21	73S		
2024	Dec	09	(Mon)	12:59	92	19:09	80S	00:28	264
2024	Dec	10	(Tue)	13:42	85	19:57	87S	01:21	271
2024	Dec	11	(Wed)	14:26	79	20:47	87N	02:14	278
2024	Dec	12	(Thu)	15:14	72	21:40	81N	03:10	285
2024	Dec	13	(Fri)	16:06	67	22:38	76N	04:09	291
2024	Dec	14	(Sat)	17:04	63	23:39	73N	05:12	295
2024	Dec	15	(Sun)	18:05	61			06:16	298
2024	Dec	16	(Mon)	19:08	62	00:42	72N	07:20	299
2024	Dec	17	(Tue)	20:09	64	01:44	73N	08:20	298
2024	Dec	18	(Wed)	21:06	67	02:42	75N	09:14	294
2024	Dec	19	(Thu)	21:59	72	03:35	79N	10:01	290
2024	Dec	20	(Fri)	22:47	78	04:22	84N	10:44	285
2024	Dec	21	(Sat)	23:33	83	05:06	90N	11:23	279
2024	Dec	22	(Sun)			05:47	86S	11:59	274
2024	Dec	23	(Mon)	00:16	89	06:26	80S	12:34	268
2024	Dec	24	(Tue)	00:59	95	07:05	74S	13:09	262
2024	Dec	25	(Wed)	01:43	101	07:45	68S	13:45	256
2024	Dec	26	(Thu)	02:28	106	08:27	63S	14:24	251
2024	Dec	27	(Fri)	03:16	111	09:12	59S	15:06	247
2024	Dec	28	(Sat)	04:08	115	10:01	55S	15:53	244
2024	Dec	29	(Sun)	05:02	118	10:54	53S	16:45	242
2024	Dec	30	(Mon)	05:59	119	11:50	52S	17:42	241
2024	Dec	31	(Tue)	06:56	118	12:48	53S	18:40	242