

Sun

Phayao

Location: E 99°49'22.7", N19°08'27.5", 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)	06:03	06:54 114		12:24 49S	17:54 246		18:45
2024 Jan 02 (Tue)	06:03	06:54 114		12:24 49S	17:55 246		18:46
2024 Jan 03 (Wed)	06:04	06:55 114		12:25 49S	17:55 246		18:46
2024 Jan 04 (Thu)	06:04	06:55 114		12:25 49S	17:56 246		18:47
2024 Jan 05 (Fri)	06:04	06:55 114		12:26 49S	17:56 246		18:47
2024 Jan 06 (Sat)	06:05	06:55 114		12:26 49S	17:57 246		18:48
2024 Jan 07 (Sun)	06:05	06:56 114		12:27 49S	17:58 247		18:49
2024 Jan 08 (Mon)	06:05	06:56 113		12:27 49S	17:58 247		18:49
2024 Jan 09 (Tue)	06:05	06:56 113		12:27 49S	17:59 247		18:50
2024 Jan 10 (Wed)	06:06	06:56 113		12:28 50S	18:00 247		18:50
2024 Jan 11 (Thu)	06:06	06:56 113		12:28 50S	18:00 247		18:51
2024 Jan 12 (Fri)	06:06	06:57 113		12:29 50S	18:01 247		18:52
2024 Jan 13 (Sat)	06:06	06:57 113		12:29 50S	18:02 247		18:52
2024 Jan 14 (Sun)	06:06	06:57 112		12:29 50S	18:02 248		18:53
2024 Jan 15 (Mon)	06:07	06:57 112		12:30 50S	18:03 248		18:53
2024 Jan 16 (Tue)	06:07	06:57 112		12:30 51S	18:03 248		18:54
2024 Jan 17 (Wed)	06:07	06:57 112		12:31 51S	18:04 248		18:54
2024 Jan 18 (Thu)	06:07	06:57 112		12:31 51S	18:05 248		18:55
2024 Jan 19 (Fri)	06:07	06:57 111		12:31 51S	18:05 249		18:56
2024 Jan 20 (Sat)	06:07	06:57 111		12:31 51S	18:06 249		18:56
2024 Jan 21 (Sun)	06:07	06:57 111		12:32 52S	18:07 249		18:57
2024 Jan 22 (Mon)	06:07	06:57 111		12:32 52S	18:07 249		18:57
2024 Jan 23 (Tue)	06:07	06:57 111		12:32 52S	18:08 250		18:58
2024 Jan 24 (Wed)	06:07	06:57 110		12:33 52S	18:09 250		18:58
2024 Jan 25 (Thu)	06:07	06:57 110		12:33 52S	18:09 250		18:59
2024 Jan 26 (Fri)	06:07	06:57 110		12:33 53S	18:10 250		18:59
2024 Jan 27 (Sat)	06:07	06:56 109		12:33 53S	18:10 251		19:00
2024 Jan 28 (Sun)	06:07	06:56 109		12:33 53S	18:11 251		19:00
2024 Jan 29 (Mon)	06:07	06:56 109		12:34 54S	18:12 251		19:01
2024 Jan 30 (Tue)	06:06	06:56 109		12:34 54S	18:12 251		19:01
2024 Jan 31 (Wed)	06:06	06:56 108		12:34 54S	18:13 252		19:02
2024 Feb 01 (Thu)	06:06	06:55 108		12:34 54S	18:13 252		19:02
2024 Feb 02 (Fri)	06:06	06:55 108		12:34 55S	18:14 252		19:03
2024 Feb 03 (Sat)	06:06	06:55 107		12:34 55S	18:14 253		19:03
2024 Feb 04 (Sun)	06:05	06:54 107		12:35 55S	18:15 253		19:04
2024 Feb 05 (Mon)	06:05	06:54 107		12:35 55S	18:15 253		19:04
2024 Feb 06 (Tue)	06:05	06:54 106		12:35 56S	18:16 254		19:05
2024 Feb 07 (Wed)	06:04	06:53 106		12:35 56S	18:17 254		19:05
2024 Feb 08 (Thu)	06:04	06:53 106		12:35 56S	18:17 254		19:06
2024 Feb 09 (Fri)	06:04	06:52 106		12:35 57S	18:18 255		19:06
2024 Feb 10 (Sat)	06:03	06:52 105		12:35 57S	18:18 255		19:07
2024 Feb 11 (Sun)	06:03	06:52 105		12:35 57S	18:19 255		19:07
2024 Feb 12 (Mon)	06:03	06:51 104		12:35 58S	18:19 256		19:07
2024 Feb 13 (Tue)	06:02	06:51 104		12:35 58S	18:19 256		19:08
2024 Feb 14 (Wed)	06:02	06:50 104		12:35 58S	18:20 256		19:08
2024 Feb 15 (Thu)	06:01	06:50 103		12:35 59S	18:20 257		19:09
2024 Feb 16 (Fri)	06:01	06:49 103		12:35 59S	18:21 257		19:09
2024 Feb 17 (Sat)	06:00	06:48 103		12:35 59S	18:21 258		19:09
2024 Feb 18 (Sun)	06:00	06:48 102		12:35 60S	18:22 258		19:10
2024 Feb 19 (Mon)	05:59	06:47 102		12:35 60S	18:22 258		19:10
2024 Feb 20 (Tue)	05:59	06:47 102		12:34 60S	18:23 259		19:11
2024 Feb 21 (Wed)	05:58	06:46 101		12:34 61S	18:23 259		19:11
2024 Feb 22 (Thu)	05:58	06:45 101		12:34 61S	18:23 259		19:11
2024 Feb 23 (Fri)	05:57	06:45 100		12:34 62S	18:24 260		19:12
2024 Feb 24 (Sat)	05:56	06:44 100		12:34 62S	18:24 260		19:12

2024	Feb	25	(Sun)	05:56	06:43	100	12:34	62S	18:25	261	19:12
2024	Feb	26	(Mon)	05:55	06:43	99	12:34	63S	18:25	261	19:13
2024	Feb	27	(Tue)	05:54	06:42	99	12:34	63S	18:25	261	19:13
2024	Feb	28	(Wed)	05:54	06:41	98	12:33	63S	18:26	262	19:13
2024	Feb	29	(Thu)	05:53	06:41	98	12:33	64S	18:26	262	19:13
2024	Mar	01	(Fri)	05:52	06:40	98	12:33	64S	18:26	263	19:14
2024	Mar	02	(Sat)	05:52	06:39	97	12:33	65S	18:27	263	19:14
2024	Mar	03	(Sun)	05:51	06:38	97	12:33	65S	18:27	263	19:14
2024	Mar	04	(Mon)	05:50	06:38	96	12:32	65S	18:27	264	19:15
2024	Mar	05	(Tue)	05:50	06:37	96	12:32	66S	18:28	264	19:15
2024	Mar	06	(Wed)	05:49	06:36	96	12:32	66S	18:28	265	19:15
2024	Mar	07	(Thu)	05:48	06:35	95	12:32	66S	18:28	265	19:16
2024	Mar	08	(Fri)	05:47	06:35	95	12:31	67S	18:28	265	19:16
2024	Mar	09	(Sat)	05:47	06:34	94	12:31	67S	18:29	266	19:16
2024	Mar	10	(Sun)	05:46	06:33	94	12:31	68S	18:29	266	19:16
2024	Mar	11	(Mon)	05:45	06:32	94	12:31	68S	18:29	267	19:17
2024	Mar	12	(Tue)	05:44	06:31	93	12:30	68S	18:30	267	19:17
2024	Mar	13	(Wed)	05:43	06:31	93	12:30	69S	18:30	268	19:17
2024	Mar	14	(Thu)	05:42	06:30	92	12:30	69S	18:30	268	19:17
2024	Mar	15	(Fri)	05:42	06:29	92	12:30	70S	18:30	268	19:18
2024	Mar	16	(Sat)	05:41	06:28	91	12:29	70S	18:31	269	19:18
2024	Mar	17	(Sun)	05:40	06:27	91	12:29	70S	18:31	269	19:18
2024	Mar	18	(Mon)	05:39	06:26	91	12:29	71S	18:31	270	19:19
2024	Mar	19	(Tue)	05:38	06:26	90	12:28	71S	18:31	270	19:19
2024	Mar	20	(Wed)	05:37	06:25	90	12:28	72S	18:32	270	19:19
2024	Mar	21	(Thu)	05:37	06:24	89	12:28	72S	18:32	271	19:19
2024	Mar	22	(Fri)	05:36	06:23	89	12:28	72S	18:32	271	19:20
2024	Mar	23	(Sat)	05:35	06:22	89	12:27	73S	18:32	272	19:20
2024	Mar	24	(Sun)	05:34	06:21	88	12:27	73S	18:33	272	19:20
2024	Mar	25	(Mon)	05:33	06:21	88	12:27	74S	18:33	273	19:20
2024	Mar	26	(Tue)	05:32	06:20	87	12:26	74S	18:33	273	19:21
2024	Mar	27	(Wed)	05:31	06:19	87	12:26	74S	18:33	273	19:21
2024	Mar	28	(Thu)	05:30	06:18	86	12:26	75S	18:34	274	19:21
2024	Mar	29	(Fri)	05:30	06:17	86	12:25	75S	18:34	274	19:22
2024	Mar	30	(Sat)	05:29	06:16	86	12:25	76S	18:34	275	19:22
2024	Mar	31	(Sun)	05:28	06:15	85	12:25	76S	18:34	275	19:22
2024	Apr	01	(Mon)	05:27	06:15	85	12:24	76S	18:35	275	19:22
2024	Apr	02	(Tue)	05:26	06:14	84	12:24	77S	18:35	276	19:23
2024	Apr	03	(Wed)	05:25	06:13	84	12:24	77S	18:35	276	19:23
2024	Apr	04	(Thu)	05:24	06:12	84	12:24	77S	18:35	277	19:23
2024	Apr	05	(Fri)	05:23	06:11	83	12:23	78S	18:36	277	19:24
2024	Apr	06	(Sat)	05:23	06:10	83	12:23	78S	18:36	277	19:24
2024	Apr	07	(Sun)	05:22	06:10	82	12:23	79S	18:36	278	19:24
2024	Apr	08	(Mon)	05:21	06:09	82	12:22	79S	18:36	278	19:25
2024	Apr	09	(Tue)	05:20	06:08	82	12:22	79S	18:37	279	19:25
2024	Apr	10	(Wed)	05:19	06:07	81	12:22	80S	18:37	279	19:25
2024	Apr	11	(Thu)	05:18	06:06	81	12:22	80S	18:37	279	19:25
2024	Apr	12	(Fri)	05:17	06:06	80	12:21	80S	18:37	280	19:26
2024	Apr	13	(Sat)	05:17	06:05	80	12:21	81S	18:38	280	19:26
2024	Apr	14	(Sun)	05:16	06:04	80	12:21	81S	18:38	281	19:27
2024	Apr	15	(Mon)	05:15	06:03	79	12:21	82S	18:38	281	19:27
2024	Apr	16	(Tue)	05:14	06:03	79	12:20	82S	18:39	281	19:27
2024	Apr	17	(Wed)	05:13	06:02	79	12:20	82S	18:39	282	19:28
2024	Apr	18	(Thu)	05:12	06:01	78	12:20	83S	18:39	282	19:28
2024	Apr	19	(Fri)	05:12	06:00	78	12:20	83S	18:39	282	19:28
2024	Apr	20	(Sat)	05:11	06:00	77	12:20	83S	18:40	283	19:29
2024	Apr	21	(Sun)	05:10	05:59	77	12:19	84S	18:40	283	19:29
2024	Apr	22	(Mon)	05:09	05:58	77	12:19	84S	18:40	283	19:29
2024	Apr	23	(Tue)	05:08	05:58	76	12:19	84S	18:41	284	19:30
2024	Apr	24	(Wed)	05:08	05:57	76	12:19	85S	18:41	284	19:30
2024	Apr	25	(Thu)	05:07	05:56	76	12:19	85S	18:41	285	19:31
2024	Apr	26	(Fri)	05:06	05:56	75	12:18	85S	18:42	285	19:31
2024	Apr	27	(Sat)	05:06	05:55	75	12:18	86S	18:42	285	19:31
2024	Apr	28	(Sun)	05:05	05:54	75	12:18	86S	18:42	286	19:32
2024	Apr	29	(Mon)	05:04	05:54	74	12:18	86S	18:43	286	19:32
2024	Apr	30	(Tue)	05:03	05:53	74	12:18	86S	18:43	286	19:33
2024	May	01	(Wed)	05:03	05:53	74	12:18	87S	18:43	287	19:33

2024	May	02	(Thu)	05:02	05:52	73	12:18	87S	18:44	287	19:34
2024	May	03	(Fri)	05:01	05:51	73	12:18	87S	18:44	287	19:34
2024	May	04	(Sat)	05:01	05:51	73	12:17	88S	18:44	287	19:35
2024	May	05	(Sun)	05:00	05:50	72	12:17	88S	18:45	288	19:35
2024	May	06	(Mon)	05:00	05:50	72	12:17	88S	18:45	288	19:35
2024	May	07	(Tue)	04:59	05:49	72	12:17	89S	18:45	288	19:36
2024	May	08	(Wed)	04:58	05:49	72	12:17	89S	18:46	289	19:36
2024	May	09	(Thu)	04:58	05:48	71	12:17	89S	18:46	289	19:37
2024	May	10	(Fri)	04:57	05:48	71	12:17	89S	18:46	289	19:37
2024	May	11	(Sat)	04:57	05:48	71	12:17	90S	18:47	289	19:38
2024	May	12	(Sun)	04:56	05:47	70	12:17	90S	18:47	290	19:38
2024	May	13	(Mon)	04:56	05:47	70	12:17	90S	18:48	290	19:39
2024	May	14	(Tue)	04:55	05:46	70	12:17	90S	18:48	290	19:39
2024	May	15	(Wed)	04:55	05:46	70	12:17	91S	18:48	291	19:40
2024	May	16	(Thu)	04:54	05:46	69	12:17	91N	18:49	291	19:40
2024	May	17	(Fri)	04:54	05:45	69	12:17	90N	18:49	291	19:41
2024	May	18	(Sat)	04:53	05:45	69	12:17	90N	18:50	291	19:41
2024	May	19	(Sun)	04:53	05:45	69	12:17	90N	18:50	291	19:42
2024	May	20	(Mon)	04:53	05:44	68	12:17	90N	18:50	292	19:42
2024	May	21	(Tue)	04:52	05:44	68	12:17	90N	18:51	292	19:43
2024	May	22	(Wed)	04:52	05:44	68	12:17	89N	18:51	292	19:43
2024	May	23	(Thu)	04:52	05:44	68	12:17	89N	18:51	292	19:44
2024	May	24	(Fri)	04:51	05:43	68	12:18	89N	18:52	293	19:44
2024	May	25	(Sat)	04:51	05:43	67	12:18	89N	18:52	293	19:45
2024	May	26	(Sun)	04:51	05:43	67	12:18	89N	18:53	293	19:45
2024	May	27	(Mon)	04:51	05:43	67	12:18	88N	18:53	293	19:45
2024	May	28	(Tue)	04:50	05:43	67	12:18	88N	18:53	293	19:46
2024	May	29	(Wed)	04:50	05:43	67	12:18	88N	18:54	293	19:46
2024	May	30	(Thu)	04:50	05:43	67	12:18	88N	18:54	294	19:47
2024	May	31	(Fri)	04:50	05:42	66	12:18	88N	18:55	294	19:47
2024	Jun	01	(Sat)	04:50	05:42	66	12:19	88N	18:55	294	19:48
2024	Jun	02	(Sun)	04:50	05:42	66	12:19	88N	18:55	294	19:48
2024	Jun	03	(Mon)	04:49	05:42	66	12:19	87N	18:56	294	19:49
2024	Jun	04	(Tue)	04:49	05:42	66	12:19	87N	18:56	294	19:49
2024	Jun	05	(Wed)	04:49	05:42	66	12:19	87N	18:56	294	19:49
2024	Jun	06	(Thu)	04:49	05:42	66	12:19	87N	18:57	294	19:50
2024	Jun	07	(Fri)	04:49	05:42	65	12:20	87N	18:57	295	19:50
2024	Jun	08	(Sat)	04:49	05:42	65	12:20	87N	18:57	295	19:51
2024	Jun	09	(Sun)	04:49	05:42	65	12:20	87N	18:58	295	19:51
2024	Jun	10	(Mon)	04:49	05:42	65	12:20	87N	18:58	295	19:51
2024	Jun	11	(Tue)	04:49	05:42	65	12:20	87N	18:58	295	19:52
2024	Jun	12	(Wed)	04:49	05:43	65	12:21	87N	18:59	295	19:52
2024	Jun	13	(Thu)	04:49	05:43	65	12:21	87N	18:59	295	19:52
2024	Jun	14	(Fri)	04:49	05:43	65	12:21	87N	18:59	295	19:53
2024	Jun	15	(Sat)	04:50	05:43	65	12:21	87N	19:00	295	19:53
2024	Jun	16	(Sun)	04:50	05:43	65	12:21	86N	19:00	295	19:53
2024	Jun	17	(Mon)	04:50	05:43	65	12:22	86N	19:00	295	19:54
2024	Jun	18	(Tue)	04:50	05:43	65	12:22	86N	19:00	295	19:54
2024	Jun	19	(Wed)	04:50	05:44	65	12:22	86N	19:01	295	19:54
2024	Jun	20	(Thu)	04:50	05:44	65	12:22	86N	19:01	295	19:54
2024	Jun	21	(Fri)	04:51	05:44	65	12:23	86N	19:01	295	19:55
2024	Jun	22	(Sat)	04:51	05:44	65	12:23	86N	19:01	295	19:55
2024	Jun	23	(Sun)	04:51	05:45	65	12:23	86N	19:02	295	19:55
2024	Jun	24	(Mon)	04:51	05:45	65	12:23	86N	19:02	295	19:55
2024	Jun	25	(Tue)	04:52	05:45	65	12:23	86N	19:02	295	19:55
2024	Jun	26	(Wed)	04:52	05:45	65	12:24	87N	19:02	295	19:55
2024	Jun	27	(Thu)	04:52	05:46	65	12:24	87N	19:02	295	19:55
2024	Jun	28	(Fri)	04:52	05:46	65	12:24	87N	19:02	295	19:56
2024	Jun	29	(Sat)	04:53	05:46	65	12:24	87N	19:02	295	19:56
2024	Jun	30	(Sun)	04:53	05:46	65	12:24	87N	19:02	295	19:56
2024	Jul	01	(Mon)	04:53	05:47	65	12:25	87N	19:03	295	19:56
2024	Jul	02	(Tue)	04:54	05:47	65	12:25	87N	19:03	295	19:56
2024	Jul	03	(Wed)	04:54	05:47	65	12:25	87N	19:03	295	19:56
2024	Jul	04	(Thu)	04:55	05:48	65	12:25	87N	19:03	295	19:56
2024	Jul	05	(Fri)	04:55	05:48	66	12:25	87N	19:03	294	19:56
2024	Jul	06	(Sat)	04:55	05:48	66	12:26	87N	19:03	294	19:56
2024	Jul	07	(Sun)	04:56	05:49	66	12:26	87N	19:03	294	19:56

2024	Jul	08	(Mon)	04:56	05:49	66	12:26	87N	19:03	294	19:55
2024	Jul	09	(Tue)	04:57	05:49	66	12:26	88N	19:03	294	19:55
2024	Jul	10	(Wed)	04:57	05:50	66	12:26	88N	19:02	294	19:55
2024	Jul	11	(Thu)	04:57	05:50	66	12:26	88N	19:02	294	19:55
2024	Jul	12	(Fri)	04:58	05:50	66	12:26	88N	19:02	294	19:55
2024	Jul	13	(Sat)	04:58	05:51	67	12:27	88N	19:02	293	19:55
2024	Jul	14	(Sun)	04:59	05:51	67	12:27	88N	19:02	293	19:54
2024	Jul	15	(Mon)	04:59	05:52	67	12:27	88N	19:02	293	19:54
2024	Jul	16	(Tue)	05:00	05:52	67	12:27	89N	19:02	293	19:54
2024	Jul	17	(Wed)	05:00	05:52	67	12:27	89N	19:01	293	19:54
2024	Jul	18	(Thu)	05:00	05:53	67	12:27	89N	19:01	292	19:53
2024	Jul	19	(Fri)	05:01	05:53	68	12:27	89N	19:01	292	19:53
2024	Jul	20	(Sat)	05:01	05:53	68	12:27	89N	19:01	292	19:53
2024	Jul	21	(Sun)	05:02	05:54	68	12:27	89N	19:00	292	19:52
2024	Jul	22	(Mon)	05:02	05:54	68	12:27	90N	19:00	292	19:52
2024	Jul	23	(Tue)	05:03	05:54	68	12:27	90N	19:00	291	19:52
2024	Jul	24	(Wed)	05:03	05:55	69	12:27	90N	19:00	291	19:51
2024	Jul	25	(Thu)	05:04	05:55	69	12:27	90N	18:59	291	19:51
2024	Jul	26	(Fri)	05:04	05:55	69	12:27	91N	18:59	291	19:50
2024	Jul	27	(Sat)	05:04	05:56	69	12:27	91S	18:58	290	19:50
2024	Jul	28	(Sun)	05:05	05:56	70	12:27	90S	18:58	290	19:49
2024	Jul	29	(Mon)	05:05	05:57	70	12:27	90S	18:58	290	19:49
2024	Jul	30	(Tue)	05:06	05:57	70	12:27	90S	18:57	290	19:48
2024	Jul	31	(Wed)	05:06	05:57	70	12:27	90S	18:57	289	19:48
2024	Aug	01	(Thu)	05:07	05:58	71	12:27	89S	18:56	289	19:47
2024	Aug	02	(Fri)	05:07	05:58	71	12:27	89S	18:56	289	19:47
2024	Aug	03	(Sat)	05:07	05:58	71	12:27	89S	18:55	289	19:46
2024	Aug	04	(Sun)	05:08	05:59	71	12:27	89S	18:55	288	19:45
2024	Aug	05	(Mon)	05:08	05:59	72	12:27	88S	18:54	288	19:45
2024	Aug	06	(Tue)	05:09	05:59	72	12:27	88S	18:54	288	19:44
2024	Aug	07	(Wed)	05:09	05:59	72	12:26	88S	18:53	287	19:44
2024	Aug	08	(Thu)	05:10	06:00	73	12:26	88S	18:53	287	19:43
2024	Aug	09	(Fri)	05:10	06:00	73	12:26	87S	18:52	287	19:42
2024	Aug	10	(Sat)	05:10	06:00	73	12:26	87S	18:52	287	19:41
2024	Aug	11	(Sun)	05:11	06:01	74	12:26	87S	18:51	286	19:41
2024	Aug	12	(Mon)	05:11	06:01	74	12:26	86S	18:50	286	19:40
2024	Aug	13	(Tue)	05:11	06:01	74	12:26	86S	18:50	286	19:39
2024	Aug	14	(Wed)	05:12	06:02	75	12:25	86S	18:49	285	19:39
2024	Aug	15	(Thu)	05:12	06:02	75	12:25	85S	18:48	285	19:38
2024	Aug	16	(Fri)	05:13	06:02	75	12:25	85S	18:48	285	19:37
2024	Aug	17	(Sat)	05:13	06:02	76	12:25	85S	18:47	284	19:36
2024	Aug	18	(Sun)	05:13	06:03	76	12:25	84S	18:46	284	19:35
2024	Aug	19	(Mon)	05:14	06:03	76	12:24	84S	18:46	284	19:35
2024	Aug	20	(Tue)	05:14	06:03	77	12:24	84S	18:45	283	19:34
2024	Aug	21	(Wed)	05:14	06:03	77	12:24	84S	18:44	283	19:33
2024	Aug	22	(Thu)	05:15	06:04	77	12:24	83S	18:43	282	19:32
2024	Aug	23	(Fri)	05:15	06:04	78	12:23	83S	18:43	282	19:31
2024	Aug	24	(Sat)	05:15	06:04	78	12:23	82S	18:42	282	19:30
2024	Aug	25	(Sun)	05:16	06:04	78	12:23	82S	18:41	281	19:30
2024	Aug	26	(Mon)	05:16	06:04	79	12:22	82S	18:40	281	19:29
2024	Aug	27	(Tue)	05:16	06:05	79	12:22	81S	18:39	281	19:28
2024	Aug	28	(Wed)	05:16	06:05	80	12:22	81S	18:39	280	19:27
2024	Aug	29	(Thu)	05:17	06:05	80	12:22	81S	18:38	280	19:26
2024	Aug	30	(Fri)	05:17	06:05	80	12:21	80S	18:37	280	19:25
2024	Aug	31	(Sat)	05:17	06:06	81	12:21	80S	18:36	279	19:24
2024	Sep	01	(Sun)	05:18	06:06	81	12:21	80S	18:35	279	19:23
2024	Sep	02	(Mon)	05:18	06:06	81	12:20	79S	18:34	278	19:23
2024	Sep	03	(Tue)	05:18	06:06	82	12:20	79S	18:34	278	19:22
2024	Sep	04	(Wed)	05:18	06:06	82	12:20	79S	18:33	278	19:21
2024	Sep	05	(Thu)	05:19	06:07	83	12:19	78S	18:32	277	19:20
2024	Sep	06	(Fri)	05:19	06:07	83	12:19	78S	18:31	277	19:19
2024	Sep	07	(Sat)	05:19	06:07	83	12:19	77S	18:30	276	19:18
2024	Sep	08	(Sun)	05:19	06:07	84	12:18	77S	18:29	276	19:17
2024	Sep	09	(Mon)	05:20	06:07	84	12:18	77S	18:28	276	19:16
2024	Sep	10	(Tue)	05:20	06:07	85	12:18	76S	18:28	275	19:15
2024	Sep	11	(Wed)	05:20	06:08	85	12:17	76S	18:27	275	19:14
2024	Sep	12	(Thu)	05:20	06:08	85	12:17	76S	18:26	274	19:13

2024	Sep	13	(Fri)	05:20	06:08	86	12:17	75S	18:25	274	19:12
2024	Sep	14	(Sat)	05:21	06:08	86	12:16	75S	18:24	274	19:11
2024	Sep	15	(Sun)	05:21	06:08	87	12:16	74S	18:23	273	19:11
2024	Sep	16	(Mon)	05:21	06:09	87	12:15	74S	18:22	273	19:10
2024	Sep	17	(Tue)	05:21	06:09	87	12:15	74S	18:21	272	19:09
2024	Sep	18	(Wed)	05:21	06:09	88	12:15	73S	18:20	272	19:08
2024	Sep	19	(Thu)	05:22	06:09	88	12:14	73S	18:19	272	19:07
2024	Sep	20	(Fri)	05:22	06:09	89	12:14	72S	18:19	271	19:06
2024	Sep	21	(Sat)	05:22	06:09	89	12:14	72S	18:18	271	19:05
2024	Sep	22	(Sun)	05:22	06:10	89	12:13	72S	18:17	270	19:04
2024	Sep	23	(Mon)	05:22	06:10	90	12:13	71S	18:16	270	19:03
2024	Sep	24	(Tue)	05:23	06:10	90	12:13	71S	18:15	269	19:02
2024	Sep	25	(Wed)	05:23	06:10	91	12:12	71S	18:14	269	19:01
2024	Sep	26	(Thu)	05:23	06:10	91	12:12	70S	18:13	269	19:01
2024	Sep	27	(Fri)	05:23	06:11	92	12:12	70S	18:12	268	19:00
2024	Sep	28	(Sat)	05:23	06:11	92	12:11	69S	18:11	268	18:59
2024	Sep	29	(Sun)	05:24	06:11	92	12:11	69S	18:11	267	18:58
2024	Sep	30	(Mon)	05:24	06:11	93	12:11	69S	18:10	267	18:57
2024	Oct	01	(Tue)	05:24	06:11	93	12:10	68S	18:09	267	18:56
2024	Oct	02	(Wed)	05:24	06:12	94	12:10	68S	18:08	266	18:55
2024	Oct	03	(Thu)	05:25	06:12	94	12:10	67S	18:07	266	18:55
2024	Oct	04	(Fri)	05:25	06:12	94	12:09	67S	18:06	265	18:54
2024	Oct	05	(Sat)	05:25	06:12	95	12:09	67S	18:06	265	18:53
2024	Oct	06	(Sun)	05:25	06:13	95	12:09	66S	18:05	265	18:52
2024	Oct	07	(Mon)	05:25	06:13	96	12:08	66S	18:04	264	18:51
2024	Oct	08	(Tue)	05:26	06:13	96	12:08	65S	18:03	264	18:50
2024	Oct	09	(Wed)	05:26	06:13	96	12:08	65S	18:02	263	18:50
2024	Oct	10	(Thu)	05:26	06:14	97	12:08	65S	18:01	263	18:49
2024	Oct	11	(Fri)	05:26	06:14	97	12:07	64S	18:01	263	18:48
2024	Oct	12	(Sat)	05:27	06:14	98	12:07	64S	18:00	262	18:47
2024	Oct	13	(Sun)	05:27	06:14	98	12:07	64S	17:59	262	18:47
2024	Oct	14	(Mon)	05:27	06:15	98	12:07	63S	17:58	261	18:46
2024	Oct	15	(Tue)	05:27	06:15	99	12:06	63S	17:58	261	18:45
2024	Oct	16	(Wed)	05:28	06:15	99	12:06	63S	17:57	261	18:45
2024	Oct	17	(Thu)	05:28	06:16	100	12:06	62S	17:56	260	18:44
2024	Oct	18	(Fri)	05:28	06:16	100	12:06	62S	17:55	260	18:43
2024	Oct	19	(Sat)	05:28	06:16	100	12:06	61S	17:55	259	18:43
2024	Oct	20	(Sun)	05:29	06:17	101	12:05	61S	17:54	259	18:42
2024	Oct	21	(Mon)	05:29	06:17	101	12:05	61S	17:53	259	18:41
2024	Oct	22	(Tue)	05:29	06:17	102	12:05	60S	17:53	258	18:41
2024	Oct	23	(Wed)	05:30	06:18	102	12:05	60S	17:52	258	18:40
2024	Oct	24	(Thu)	05:30	06:18	102	12:05	60S	17:52	258	18:40
2024	Oct	25	(Fri)	05:30	06:18	103	12:05	59S	17:51	257	18:39
2024	Oct	26	(Sat)	05:31	06:19	103	12:05	59S	17:50	257	18:39
2024	Oct	27	(Sun)	05:31	06:19	103	12:05	59S	17:50	256	18:38
2024	Oct	28	(Mon)	05:31	06:20	104	12:04	58S	17:49	256	18:37
2024	Oct	29	(Tue)	05:32	06:20	104	12:04	58S	17:49	256	18:37
2024	Oct	30	(Wed)	05:32	06:20	104	12:04	58S	17:48	255	18:37
2024	Oct	31	(Thu)	05:32	06:21	105	12:04	57S	17:48	255	18:36
2024	Nov	01	(Fri)	05:33	06:21	105	12:04	57S	17:47	255	18:36
2024	Nov	02	(Sat)	05:33	06:22	105	12:04	57S	17:47	254	18:35
2024	Nov	03	(Sun)	05:33	06:22	106	12:04	56S	17:46	254	18:35
2024	Nov	04	(Mon)	05:34	06:23	106	12:04	56S	17:46	254	18:35
2024	Nov	05	(Tue)	05:34	06:23	106	12:04	56S	17:45	253	18:34
2024	Nov	06	(Wed)	05:35	06:24	107	12:04	55S	17:45	253	18:34
2024	Nov	07	(Thu)	05:35	06:24	107	12:04	55S	17:45	253	18:34
2024	Nov	08	(Fri)	05:36	06:25	107	12:04	55S	17:44	253	18:33
2024	Nov	09	(Sat)	05:36	06:25	108	12:05	55S	17:44	252	18:33
2024	Nov	10	(Sun)	05:36	06:26	108	12:05	54S	17:43	252	18:33
2024	Nov	11	(Mon)	05:37	06:26	108	12:05	54S	17:43	252	18:32
2024	Nov	12	(Tue)	05:37	06:27	109	12:05	54S	17:43	251	18:32
2024	Nov	13	(Wed)	05:38	06:27	109	12:05	53S	17:43	251	18:32
2024	Nov	14	(Thu)	05:38	06:28	109	12:05	53S	17:42	251	18:32
2024	Nov	15	(Fri)	05:39	06:28	109	12:05	53S	17:42	251	18:32
2024	Nov	16	(Sat)	05:39	06:29	110	12:06	53S	17:42	250	18:32
2024	Nov	17	(Sun)	05:40	06:29	110	12:06	52S	17:42	250	18:32
2024	Nov	18	(Mon)	05:40	06:30	110	12:06	52S	17:42	250	18:31

2024	Nov	19	(Tue)	05:41	06:31	110	12:06	52S	17:42	249	18:31
2024	Nov	20	(Wed)	05:41	06:31	111	12:06	52S	17:41	249	18:31
2024	Nov	21	(Thu)	05:42	06:32	111	12:07	52S	17:41	249	18:31
2024	Nov	22	(Fri)	05:42	06:32	111	12:07	51S	17:41	249	18:31
2024	Nov	23	(Sat)	05:43	06:33	111	12:07	51S	17:41	249	18:31
2024	Nov	24	(Sun)	05:43	06:34	112	12:07	51S	17:41	248	18:31
2024	Nov	25	(Mon)	05:44	06:34	112	12:08	51S	17:41	248	18:31
2024	Nov	26	(Tue)	05:44	06:35	112	12:08	51S	17:41	248	18:32
2024	Nov	27	(Wed)	05:45	06:35	112	12:08	50S	17:41	248	18:32
2024	Nov	28	(Thu)	05:46	06:36	112	12:09	50S	17:41	248	18:32
2024	Nov	29	(Fri)	05:46	06:37	113	12:09	50S	17:41	247	18:32
2024	Nov	30	(Sat)	05:47	06:37	113	12:09	50S	17:42	247	18:32
2024	Dec	01	(Sun)	05:47	06:38	113	12:10	50S	17:42	247	18:32
2024	Dec	02	(Mon)	05:48	06:38	113	12:10	50S	17:42	247	18:32
2024	Dec	03	(Tue)	05:48	06:39	113	12:11	49S	17:42	247	18:33
2024	Dec	04	(Wed)	05:49	06:40	113	12:11	49S	17:42	247	18:33
2024	Dec	05	(Thu)	05:49	06:40	113	12:11	49S	17:42	246	18:33
2024	Dec	06	(Fri)	05:50	06:41	114	12:12	49S	17:43	246	18:34
2024	Dec	07	(Sat)	05:51	06:42	114	12:12	49S	17:43	246	18:34
2024	Dec	08	(Sun)	05:51	06:42	114	12:13	49S	17:43	246	18:34
2024	Dec	09	(Mon)	05:52	06:43	114	12:13	49S	17:43	246	18:34
2024	Dec	10	(Tue)	05:52	06:43	114	12:14	49S	17:44	246	18:35
2024	Dec	11	(Wed)	05:53	06:44	114	12:14	49S	17:44	246	18:35
2024	Dec	12	(Thu)	05:53	06:45	114	12:15	48S	17:44	246	18:36
2024	Dec	13	(Fri)	05:54	06:45	114	12:15	48S	17:45	246	18:36
2024	Dec	14	(Sat)	05:55	06:46	114	12:15	48S	17:45	246	18:36
2024	Dec	15	(Sun)	05:55	06:46	114	12:16	48S	17:46	246	18:37
2024	Dec	16	(Mon)	05:56	06:47	114	12:16	48S	17:46	246	18:37
2024	Dec	17	(Tue)	05:56	06:47	115	12:17	48S	17:46	245	18:38
2024	Dec	18	(Wed)	05:57	06:48	115	12:17	48S	17:47	245	18:38
2024	Dec	19	(Thu)	05:57	06:48	115	12:18	48S	17:47	245	18:39
2024	Dec	20	(Fri)	05:58	06:49	115	12:18	48S	17:48	245	18:39
2024	Dec	21	(Sat)	05:58	06:49	115	12:19	48S	17:48	245	18:40
2024	Dec	22	(Sun)	05:59	06:50	115	12:19	48S	17:49	245	18:40
2024	Dec	23	(Mon)	05:59	06:50	115	12:20	48S	17:49	245	18:41
2024	Dec	24	(Tue)	06:00	06:51	115	12:20	48S	17:50	245	18:41
2024	Dec	25	(Wed)	06:00	06:51	115	12:21	48S	17:50	245	18:42
2024	Dec	26	(Thu)	06:01	06:52	114	12:21	48S	17:51	246	18:42
2024	Dec	27	(Fri)	06:01	06:52	114	12:22	48S	17:51	246	18:43
2024	Dec	28	(Sat)	06:01	06:53	114	12:22	48S	17:52	246	18:43
2024	Dec	29	(Sun)	06:02	06:53	114	12:23	48S	17:53	246	18:44
2024	Dec	30	(Mon)	06:02	06:53	114	12:23	48S	17:53	246	18:44
2024	Dec	31	(Tue)	06:03	06:54	114	12:24	49S	17:54	246	18:45

Sun

Phayao

Location: E 99°49'22.7", N19°08'27.5", 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)	06:30	06:54	114	12:24	49S	17:54	246	18:18
2024	Jan	02	(Tue)	06:30	06:54	114	12:24	49S	17:55	246	18:18
2024	Jan	03	(Wed)	06:31	06:55	114	12:25	49S	17:55	246	18:19
2024	Jan	04	(Thu)	06:31	06:55	114	12:25	49S	17:56	246	18:20
2024	Jan	05	(Fri)	06:31	06:55	114	12:26	49S	17:56	246	18:20
2024	Jan	06	(Sat)	06:32	06:55	114	12:26	49S	17:57	246	18:21
2024	Jan	07	(Sun)	06:32	06:56	114	12:27	49S	17:58	247	18:21
2024	Jan	08	(Mon)	06:32	06:56	113	12:27	49S	17:58	247	18:22
2024	Jan	09	(Tue)	06:32	06:56	113	12:27	49S	17:59	247	18:23
2024	Jan	10	(Wed)	06:33	06:56	113	12:28	50S	18:00	247	18:23
2024	Jan	11	(Thu)	06:33	06:56	113	12:28	50S	18:00	247	18:24

2024	Jan	12	(Fri)	06:33	06:57	113	12:29	50S	18:01	247	18:24
2024	Jan	13	(Sat)	06:33	06:57	113	12:29	50S	18:02	247	18:25
2024	Jan	14	(Sun)	06:33	06:57	112	12:29	50S	18:02	248	18:26
2024	Jan	15	(Mon)	06:34	06:57	112	12:30	50S	18:03	248	18:26
2024	Jan	16	(Tue)	06:34	06:57	112	12:30	51S	18:03	248	18:27
2024	Jan	17	(Wed)	06:34	06:57	112	12:31	51S	18:04	248	18:28
2024	Jan	18	(Thu)	06:34	06:57	112	12:31	51S	18:05	248	18:28
2024	Jan	19	(Fri)	06:34	06:57	111	12:31	51S	18:05	249	18:29
2024	Jan	20	(Sat)	06:34	06:57	111	12:31	51S	18:06	249	18:29
2024	Jan	21	(Sun)	06:34	06:57	111	12:32	52S	18:07	249	18:30
2024	Jan	22	(Mon)	06:34	06:57	111	12:32	52S	18:07	249	18:31
2024	Jan	23	(Tue)	06:34	06:57	111	12:32	52S	18:08	250	18:31
2024	Jan	24	(Wed)	06:34	06:57	110	12:33	52S	18:09	250	18:32
2024	Jan	25	(Thu)	06:34	06:57	110	12:33	52S	18:09	250	18:32
2024	Jan	26	(Fri)	06:33	06:57	110	12:33	53S	18:10	250	18:33
2024	Jan	27	(Sat)	06:33	06:56	109	12:33	53S	18:10	251	18:33
2024	Jan	28	(Sun)	06:33	06:56	109	12:33	53S	18:11	251	18:34
2024	Jan	29	(Mon)	06:33	06:56	109	12:34	54S	18:12	251	18:35
2024	Jan	30	(Tue)	06:33	06:56	109	12:34	54S	18:12	251	18:35
2024	Jan	31	(Wed)	06:33	06:56	108	12:34	54S	18:13	252	18:36
2024	Feb	01	(Thu)	06:32	06:55	108	12:34	54S	18:13	252	18:36
2024	Feb	02	(Fri)	06:32	06:55	108	12:34	55S	18:14	252	18:37
2024	Feb	03	(Sat)	06:32	06:55	107	12:34	55S	18:14	253	18:37
2024	Feb	04	(Sun)	06:32	06:54	107	12:35	55S	18:15	253	18:38
2024	Feb	05	(Mon)	06:31	06:54	107	12:35	55S	18:15	253	18:38
2024	Feb	06	(Tue)	06:31	06:54	106	12:35	56S	18:16	254	18:39
2024	Feb	07	(Wed)	06:31	06:53	106	12:35	56S	18:17	254	18:39
2024	Feb	08	(Thu)	06:30	06:53	106	12:35	56S	18:17	254	18:40
2024	Feb	09	(Fri)	06:30	06:52	106	12:35	57S	18:18	255	18:40
2024	Feb	10	(Sat)	06:29	06:52	105	12:35	57S	18:18	255	18:41
2024	Feb	11	(Sun)	06:29	06:52	105	12:35	57S	18:19	255	18:41
2024	Feb	12	(Mon)	06:29	06:51	104	12:35	58S	18:19	256	18:42
2024	Feb	13	(Tue)	06:28	06:51	104	12:35	58S	18:19	256	18:42
2024	Feb	14	(Wed)	06:28	06:50	104	12:35	58S	18:20	256	18:42
2024	Feb	15	(Thu)	06:27	06:50	103	12:35	59S	18:20	257	18:43
2024	Feb	16	(Fri)	06:27	06:49	103	12:35	59S	18:21	257	18:43
2024	Feb	17	(Sat)	06:26	06:48	103	12:35	59S	18:21	258	18:44
2024	Feb	18	(Sun)	06:26	06:48	102	12:35	60S	18:22	258	18:44
2024	Feb	19	(Mon)	06:25	06:47	102	12:35	60S	18:22	258	18:44
2024	Feb	20	(Tue)	06:24	06:47	102	12:34	60S	18:23	259	18:45
2024	Feb	21	(Wed)	06:24	06:46	101	12:34	61S	18:23	259	18:45
2024	Feb	22	(Thu)	06:23	06:45	101	12:34	61S	18:23	259	18:46
2024	Feb	23	(Fri)	06:23	06:45	100	12:34	62S	18:24	260	18:46
2024	Feb	24	(Sat)	06:22	06:44	100	12:34	62S	18:24	260	18:46
2024	Feb	25	(Sun)	06:21	06:43	100	12:34	62S	18:25	261	18:47
2024	Feb	26	(Mon)	06:21	06:43	99	12:34	63S	18:25	261	18:47
2024	Feb	27	(Tue)	06:20	06:42	99	12:34	63S	18:25	261	18:47
2024	Feb	28	(Wed)	06:19	06:41	98	12:33	63S	18:26	262	18:48
2024	Feb	29	(Thu)	06:19	06:41	98	12:33	64S	18:26	262	18:48
2024	Mar	01	(Fri)	06:18	06:40	98	12:33	64S	18:26	263	18:48
2024	Mar	02	(Sat)	06:17	06:39	97	12:33	65S	18:27	263	18:49
2024	Mar	03	(Sun)	06:16	06:38	97	12:33	65S	18:27	263	18:49
2024	Mar	04	(Mon)	06:16	06:38	96	12:32	65S	18:27	264	18:49
2024	Mar	05	(Tue)	06:15	06:37	96	12:32	66S	18:28	264	18:50
2024	Mar	06	(Wed)	06:14	06:36	96	12:32	66S	18:28	265	18:50
2024	Mar	07	(Thu)	06:13	06:35	95	12:32	66S	18:28	265	18:50
2024	Mar	08	(Fri)	06:13	06:35	95	12:31	67S	18:28	265	18:50
2024	Mar	09	(Sat)	06:12	06:34	94	12:31	67S	18:29	266	18:51
2024	Mar	10	(Sun)	06:11	06:33	94	12:31	68S	18:29	266	18:51
2024	Mar	11	(Mon)	06:10	06:32	94	12:31	68S	18:29	267	18:51
2024	Mar	12	(Tue)	06:10	06:31	93	12:30	68S	18:30	267	18:52
2024	Mar	13	(Wed)	06:09	06:31	93	12:30	69S	18:30	268	18:52
2024	Mar	14	(Thu)	06:08	06:30	92	12:30	69S	18:30	268	18:52
2024	Mar	15	(Fri)	06:07	06:29	92	12:30	70S	18:30	268	18:52
2024	Mar	16	(Sat)	06:06	06:28	91	12:29	70S	18:31	269	18:53
2024	Mar	17	(Sun)	06:05	06:27	91	12:29	70S	18:31	269	18:53
2024	Mar	18	(Mon)	06:05	06:26	91	12:29	71S	18:31	270	18:53

2024	Mar	19	(Tue)	06:04	06:26	90	12:28	71S	18:31	270	18:53
2024	Mar	20	(Wed)	06:03	06:25	90	12:28	72S	18:32	270	18:54
2024	Mar	21	(Thu)	06:02	06:24	89	12:28	72S	18:32	271	18:54
2024	Mar	22	(Fri)	06:01	06:23	89	12:28	72S	18:32	271	18:54
2024	Mar	23	(Sat)	06:00	06:22	89	12:27	73S	18:32	272	18:54
2024	Mar	24	(Sun)	05:59	06:21	88	12:27	73S	18:33	272	18:55
2024	Mar	25	(Mon)	05:59	06:21	88	12:27	74S	18:33	273	18:55
2024	Mar	26	(Tue)	05:58	06:20	87	12:26	74S	18:33	273	18:55
2024	Mar	27	(Wed)	05:57	06:19	87	12:26	74S	18:33	273	18:55
2024	Mar	28	(Thu)	05:56	06:18	86	12:26	75S	18:34	274	18:56
2024	Mar	29	(Fri)	05:55	06:17	86	12:25	75S	18:34	274	18:56
2024	Mar	30	(Sat)	05:54	06:16	86	12:25	76S	18:34	275	18:56
2024	Mar	31	(Sun)	05:53	06:15	85	12:25	76S	18:34	275	18:56
2024	Apr	01	(Mon)	05:53	06:15	85	12:24	76S	18:35	275	18:57
2024	Apr	02	(Tue)	05:52	06:14	84	12:24	77S	18:35	276	18:57
2024	Apr	03	(Wed)	05:51	06:13	84	12:24	77S	18:35	276	18:57
2024	Apr	04	(Thu)	05:50	06:12	84	12:24	77S	18:35	277	18:57
2024	Apr	05	(Fri)	05:49	06:11	83	12:23	78S	18:36	277	18:58
2024	Apr	06	(Sat)	05:48	06:10	83	12:23	78S	18:36	277	18:58
2024	Apr	07	(Sun)	05:48	06:10	82	12:23	79S	18:36	278	18:58
2024	Apr	08	(Mon)	05:47	06:09	82	12:22	79S	18:36	278	18:59
2024	Apr	09	(Tue)	05:46	06:08	82	12:22	79S	18:37	279	18:59
2024	Apr	10	(Wed)	05:45	06:07	81	12:22	80S	18:37	279	18:59
2024	Apr	11	(Thu)	05:44	06:06	81	12:22	80S	18:37	279	18:59
2024	Apr	12	(Fri)	05:43	06:06	80	12:21	80S	18:37	280	19:00
2024	Apr	13	(Sat)	05:43	06:05	80	12:21	81S	18:38	280	19:00
2024	Apr	14	(Sun)	05:42	06:04	80	12:21	81S	18:38	281	19:00
2024	Apr	15	(Mon)	05:41	06:03	79	12:21	82S	18:38	281	19:01
2024	Apr	16	(Tue)	05:40	06:03	79	12:20	82S	18:39	281	19:01
2024	Apr	17	(Wed)	05:39	06:02	79	12:20	82S	18:39	282	19:01
2024	Apr	18	(Thu)	05:39	06:01	78	12:20	83S	18:39	282	19:02
2024	Apr	19	(Fri)	05:38	06:00	78	12:20	83S	18:39	282	19:02
2024	Apr	20	(Sat)	05:37	06:00	77	12:20	83S	18:40	283	19:02
2024	Apr	21	(Sun)	05:36	05:59	77	12:19	84S	18:40	283	19:03
2024	Apr	22	(Mon)	05:36	05:58	77	12:19	84S	18:40	283	19:03
2024	Apr	23	(Tue)	05:35	05:58	76	12:19	84S	18:41	284	19:03
2024	Apr	24	(Wed)	05:34	05:57	76	12:19	85S	18:41	284	19:04
2024	Apr	25	(Thu)	05:34	05:56	76	12:19	85S	18:41	285	19:04
2024	Apr	26	(Fri)	05:33	05:56	75	12:18	85S	18:42	285	19:04
2024	Apr	27	(Sat)	05:32	05:55	75	12:18	86S	18:42	285	19:05
2024	Apr	28	(Sun)	05:32	05:54	75	12:18	86S	18:42	286	19:05
2024	Apr	29	(Mon)	05:31	05:54	74	12:18	86S	18:43	286	19:05
2024	Apr	30	(Tue)	05:30	05:53	74	12:18	86S	18:43	286	19:06
2024	May	01	(Wed)	05:30	05:53	74	12:18	87S	18:43	287	19:06
2024	May	02	(Thu)	05:29	05:52	73	12:18	87S	18:44	287	19:07
2024	May	03	(Fri)	05:28	05:51	73	12:18	87S	18:44	287	19:07
2024	May	04	(Sat)	05:28	05:51	73	12:17	88S	18:44	287	19:07
2024	May	05	(Sun)	05:27	05:50	72	12:17	88S	18:45	288	19:08
2024	May	06	(Mon)	05:27	05:50	72	12:17	88S	18:45	288	19:08
2024	May	07	(Tue)	05:26	05:49	72	12:17	89S	18:45	288	19:09
2024	May	08	(Wed)	05:26	05:49	72	12:17	89S	18:46	289	19:09
2024	May	09	(Thu)	05:25	05:48	71	12:17	89S	18:46	289	19:09
2024	May	10	(Fri)	05:25	05:48	71	12:17	89S	18:46	289	19:10
2024	May	11	(Sat)	05:24	05:48	71	12:17	90S	18:47	289	19:10
2024	May	12	(Sun)	05:24	05:47	70	12:17	90S	18:47	290	19:11
2024	May	13	(Mon)	05:23	05:47	70	12:17	90S	18:48	290	19:11
2024	May	14	(Tue)	05:23	05:46	70	12:17	90S	18:48	290	19:11
2024	May	15	(Wed)	05:22	05:46	70	12:17	91S	18:48	291	19:12
2024	May	16	(Thu)	05:22	05:46	69	12:17	91N	18:49	291	19:12
2024	May	17	(Fri)	05:22	05:45	69	12:17	90N	18:49	291	19:13
2024	May	18	(Sat)	05:21	05:45	69	12:17	90N	18:50	291	19:13
2024	May	19	(Sun)	05:21	05:45	69	12:17	90N	18:50	291	19:14
2024	May	20	(Mon)	05:21	05:44	68	12:17	90N	18:50	292	19:14
2024	May	21	(Tue)	05:20	05:44	68	12:17	90N	18:51	292	19:14
2024	May	22	(Wed)	05:20	05:44	68	12:17	89N	18:51	292	19:15
2024	May	23	(Thu)	05:20	05:44	68	12:17	89N	18:51	292	19:15
2024	May	24	(Fri)	05:20	05:43	68	12:18	89N	18:52	293	19:16

2024	May	25	(Sat)	05:19	05:43	67	12:18	89N	18:52	293	19:16
2024	May	26	(Sun)	05:19	05:43	67	12:18	89N	18:53	293	19:17
2024	May	27	(Mon)	05:19	05:43	67	12:18	88N	18:53	293	19:17
2024	May	28	(Tue)	05:19	05:43	67	12:18	88N	18:53	293	19:17
2024	May	29	(Wed)	05:19	05:43	67	12:18	88N	18:54	293	19:18
2024	May	30	(Thu)	05:18	05:43	67	12:18	88N	18:54	294	19:18
2024	May	31	(Fri)	05:18	05:42	66	12:18	88N	18:55	294	19:19
2024	Jun	01	(Sat)	05:18	05:42	66	12:19	88N	18:55	294	19:19
2024	Jun	02	(Sun)	05:18	05:42	66	12:19	88N	18:55	294	19:19
2024	Jun	03	(Mon)	05:18	05:42	66	12:19	87N	18:56	294	19:20
2024	Jun	04	(Tue)	05:18	05:42	66	12:19	87N	18:56	294	19:20
2024	Jun	05	(Wed)	05:18	05:42	66	12:19	87N	18:56	294	19:21
2024	Jun	06	(Thu)	05:18	05:42	66	12:19	87N	18:57	294	19:21
2024	Jun	07	(Fri)	05:18	05:42	65	12:20	87N	18:57	295	19:21
2024	Jun	08	(Sat)	05:18	05:42	65	12:20	87N	18:57	295	19:22
2024	Jun	09	(Sun)	05:18	05:42	65	12:20	87N	18:58	295	19:22
2024	Jun	10	(Mon)	05:18	05:42	65	12:20	87N	18:58	295	19:22
2024	Jun	11	(Tue)	05:18	05:42	65	12:20	87N	18:58	295	19:23
2024	Jun	12	(Wed)	05:18	05:43	65	12:21	87N	18:59	295	19:23
2024	Jun	13	(Thu)	05:18	05:43	65	12:21	87N	18:59	295	19:23
2024	Jun	14	(Fri)	05:18	05:43	65	12:21	87N	18:59	295	19:24
2024	Jun	15	(Sat)	05:19	05:43	65	12:21	87N	19:00	295	19:24
2024	Jun	16	(Sun)	05:19	05:43	65	12:21	86N	19:00	295	19:24
2024	Jun	17	(Mon)	05:19	05:43	65	12:22	86N	19:00	295	19:25
2024	Jun	18	(Tue)	05:19	05:43	65	12:22	86N	19:00	295	19:25
2024	Jun	19	(Wed)	05:19	05:44	65	12:22	86N	19:01	295	19:25
2024	Jun	20	(Thu)	05:19	05:44	65	12:22	86N	19:01	295	19:25
2024	Jun	21	(Fri)	05:20	05:44	65	12:23	86N	19:01	295	19:26
2024	Jun	22	(Sat)	05:20	05:44	65	12:23	86N	19:01	295	19:26
2024	Jun	23	(Sun)	05:20	05:45	65	12:23	86N	19:02	295	19:26
2024	Jun	24	(Mon)	05:20	05:45	65	12:23	86N	19:02	295	19:26
2024	Jun	25	(Tue)	05:21	05:45	65	12:23	86N	19:02	295	19:26
2024	Jun	26	(Wed)	05:21	05:45	65	12:24	87N	19:02	295	19:26
2024	Jun	27	(Thu)	05:21	05:46	65	12:24	87N	19:02	295	19:27
2024	Jun	28	(Fri)	05:21	05:46	65	12:24	87N	19:02	295	19:27
2024	Jun	29	(Sat)	05:22	05:46	65	12:24	87N	19:02	295	19:27
2024	Jun	30	(Sun)	05:22	05:46	65	12:24	87N	19:02	295	19:27
2024	Jul	01	(Mon)	05:22	05:47	65	12:25	87N	19:03	295	19:27
2024	Jul	02	(Tue)	05:23	05:47	65	12:25	87N	19:03	295	19:27
2024	Jul	03	(Wed)	05:23	05:47	65	12:25	87N	19:03	295	19:27
2024	Jul	04	(Thu)	05:23	05:48	65	12:25	87N	19:03	295	19:27
2024	Jul	05	(Fri)	05:24	05:48	66	12:25	87N	19:03	294	19:27
2024	Jul	06	(Sat)	05:24	05:48	66	12:26	87N	19:03	294	19:27
2024	Jul	07	(Sun)	05:24	05:49	66	12:26	87N	19:03	294	19:27
2024	Jul	08	(Mon)	05:25	05:49	66	12:26	87N	19:03	294	19:27
2024	Jul	09	(Tue)	05:25	05:49	66	12:26	88N	19:03	294	19:27
2024	Jul	10	(Wed)	05:26	05:50	66	12:26	88N	19:02	294	19:27
2024	Jul	11	(Thu)	05:26	05:50	66	12:26	88N	19:02	294	19:26
2024	Jul	12	(Fri)	05:26	05:50	66	12:26	88N	19:02	294	19:26
2024	Jul	13	(Sat)	05:27	05:51	67	12:27	88N	19:02	293	19:26
2024	Jul	14	(Sun)	05:27	05:51	67	12:27	88N	19:02	293	19:26
2024	Jul	15	(Mon)	05:28	05:52	67	12:27	88N	19:02	293	19:26
2024	Jul	16	(Tue)	05:28	05:52	67	12:27	89N	19:02	293	19:26
2024	Jul	17	(Wed)	05:28	05:52	67	12:27	89N	19:01	293	19:25
2024	Jul	18	(Thu)	05:29	05:53	67	12:27	89N	19:01	292	19:25
2024	Jul	19	(Fri)	05:29	05:53	68	12:27	89N	19:01	292	19:25
2024	Jul	20	(Sat)	05:30	05:53	68	12:27	89N	19:01	292	19:25
2024	Jul	21	(Sun)	05:30	05:54	68	12:27	89N	19:00	292	19:24
2024	Jul	22	(Mon)	05:30	05:54	68	12:27	90N	19:00	292	19:24
2024	Jul	23	(Tue)	05:31	05:54	68	12:27	90N	19:00	291	19:24
2024	Jul	24	(Wed)	05:31	05:55	69	12:27	90N	19:00	291	19:23
2024	Jul	25	(Thu)	05:31	05:55	69	12:27	90N	18:59	291	19:23
2024	Jul	26	(Fri)	05:32	05:55	69	12:27	91N	18:59	291	19:22
2024	Jul	27	(Sat)	05:32	05:56	69	12:27	91S	18:58	290	19:22
2024	Jul	28	(Sun)	05:33	05:56	70	12:27	90S	18:58	290	19:22
2024	Jul	29	(Mon)	05:33	05:57	70	12:27	90S	18:58	290	19:21
2024	Jul	30	(Tue)	05:33	05:57	70	12:27	90S	18:57	290	19:21

2024	Jul	31	(Wed)	05:34	05:57	70	12:27	90S	18:57	289	19:20
2024	Aug	01	(Thu)	05:34	05:58	71	12:27	89S	18:56	289	19:20
2024	Aug	02	(Fri)	05:35	05:58	71	12:27	89S	18:56	289	19:19
2024	Aug	03	(Sat)	05:35	05:58	71	12:27	89S	18:55	289	19:19
2024	Aug	04	(Sun)	05:35	05:59	71	12:27	89S	18:55	288	19:18
2024	Aug	05	(Mon)	05:36	05:59	72	12:27	88S	18:54	288	19:18
2024	Aug	06	(Tue)	05:36	05:59	72	12:27	88S	18:54	288	19:17
2024	Aug	07	(Wed)	05:36	05:59	72	12:26	88S	18:53	287	19:16
2024	Aug	08	(Thu)	05:37	06:00	73	12:26	88S	18:53	287	19:16
2024	Aug	09	(Fri)	05:37	06:00	73	12:26	87S	18:52	287	19:15
2024	Aug	10	(Sat)	05:37	06:00	73	12:26	87S	18:52	287	19:14
2024	Aug	11	(Sun)	05:38	06:01	74	12:26	87S	18:51	286	19:14
2024	Aug	12	(Mon)	05:38	06:01	74	12:26	86S	18:50	286	19:13
2024	Aug	13	(Tue)	05:38	06:01	74	12:26	86S	18:50	286	19:12
2024	Aug	14	(Wed)	05:39	06:02	75	12:25	86S	18:49	285	19:12
2024	Aug	15	(Thu)	05:39	06:02	75	12:25	85S	18:48	285	19:11
2024	Aug	16	(Fri)	05:39	06:02	75	12:25	85S	18:48	285	19:10
2024	Aug	17	(Sat)	05:40	06:02	76	12:25	85S	18:47	284	19:10
2024	Aug	18	(Sun)	05:40	06:03	76	12:25	84S	18:46	284	19:09
2024	Aug	19	(Mon)	05:40	06:03	76	12:24	84S	18:46	284	19:08
2024	Aug	20	(Tue)	05:40	06:03	77	12:24	84S	18:45	283	19:07
2024	Aug	21	(Wed)	05:41	06:03	77	12:24	84S	18:44	283	19:07
2024	Aug	22	(Thu)	05:41	06:04	77	12:24	83S	18:43	282	19:06
2024	Aug	23	(Fri)	05:41	06:04	78	12:23	83S	18:43	282	19:05
2024	Aug	24	(Sat)	05:42	06:04	78	12:23	82S	18:42	282	19:04
2024	Aug	25	(Sun)	05:42	06:04	78	12:23	82S	18:41	281	19:03
2024	Aug	26	(Mon)	05:42	06:04	79	12:22	82S	18:40	281	19:03
2024	Aug	27	(Tue)	05:42	06:05	79	12:22	81S	18:39	281	19:02
2024	Aug	28	(Wed)	05:43	06:05	80	12:22	81S	18:39	280	19:01
2024	Aug	29	(Thu)	05:43	06:05	80	12:22	81S	18:38	280	19:00
2024	Aug	30	(Fri)	05:43	06:05	80	12:21	80S	18:37	280	18:59
2024	Aug	31	(Sat)	05:43	06:06	81	12:21	80S	18:36	279	18:58
2024	Sep	01	(Sun)	05:44	06:06	81	12:21	80S	18:35	279	18:57
2024	Sep	02	(Mon)	05:44	06:06	81	12:20	79S	18:34	278	18:57
2024	Sep	03	(Tue)	05:44	06:06	82	12:20	79S	18:34	278	18:56
2024	Sep	04	(Wed)	05:44	06:06	82	12:20	79S	18:33	278	18:55
2024	Sep	05	(Thu)	05:44	06:07	83	12:19	78S	18:32	277	18:54
2024	Sep	06	(Fri)	05:45	06:07	83	12:19	78S	18:31	277	18:53
2024	Sep	07	(Sat)	05:45	06:07	83	12:19	77S	18:30	276	18:52
2024	Sep	08	(Sun)	05:45	06:07	84	12:18	77S	18:29	276	18:51
2024	Sep	09	(Mon)	05:45	06:07	84	12:18	77S	18:28	276	18:50
2024	Sep	10	(Tue)	05:45	06:07	85	12:18	76S	18:28	275	18:50
2024	Sep	11	(Wed)	05:46	06:08	85	12:17	76S	18:27	275	18:49
2024	Sep	12	(Thu)	05:46	06:08	85	12:17	76S	18:26	274	18:48
2024	Sep	13	(Fri)	05:46	06:08	86	12:17	75S	18:25	274	18:47
2024	Sep	14	(Sat)	05:46	06:08	86	12:16	75S	18:24	274	18:46
2024	Sep	15	(Sun)	05:46	06:08	87	12:16	74S	18:23	273	18:45
2024	Sep	16	(Mon)	05:47	06:09	87	12:15	74S	18:22	273	18:44
2024	Sep	17	(Tue)	05:47	06:09	87	12:15	74S	18:21	272	18:43
2024	Sep	18	(Wed)	05:47	06:09	88	12:15	73S	18:20	272	18:42
2024	Sep	19	(Thu)	05:47	06:09	88	12:14	73S	18:19	272	18:41
2024	Sep	20	(Fri)	05:47	06:09	89	12:14	72S	18:19	271	18:40
2024	Sep	21	(Sat)	05:48	06:09	89	12:14	72S	18:18	271	18:40
2024	Sep	22	(Sun)	05:48	06:10	89	12:13	72S	18:17	270	18:39
2024	Sep	23	(Mon)	05:48	06:10	90	12:13	71S	18:16	270	18:38
2024	Sep	24	(Tue)	05:48	06:10	90	12:13	71S	18:15	269	18:37
2024	Sep	25	(Wed)	05:48	06:10	91	12:12	71S	18:14	269	18:36
2024	Sep	26	(Thu)	05:48	06:10	91	12:12	70S	18:13	269	18:35
2024	Sep	27	(Fri)	05:49	06:11	92	12:12	70S	18:12	268	18:34
2024	Sep	28	(Sat)	05:49	06:11	92	12:11	69S	18:11	268	18:33
2024	Sep	29	(Sun)	05:49	06:11	92	12:11	69S	18:11	267	18:33
2024	Sep	30	(Mon)	05:49	06:11	93	12:11	69S	18:10	267	18:32
2024	Oct	01	(Tue)	05:50	06:11	93	12:10	68S	18:09	267	18:31
2024	Oct	02	(Wed)	05:50	06:12	94	12:10	68S	18:08	266	18:30
2024	Oct	03	(Thu)	05:50	06:12	94	12:10	67S	18:07	266	18:29
2024	Oct	04	(Fri)	05:50	06:12	94	12:09	67S	18:06	265	18:28
2024	Oct	05	(Sat)	05:50	06:12	95	12:09	67S	18:06	265	18:27

2024	Oct	06	(Sun)	05:51	06:13	95	12:09	66S	18:05	265	18:27
2024	Oct	07	(Mon)	05:51	06:13	96	12:08	66S	18:04	264	18:26
2024	Oct	08	(Tue)	05:51	06:13	96	12:08	65S	18:03	264	18:25
2024	Oct	09	(Wed)	05:51	06:13	96	12:08	65S	18:02	263	18:24
2024	Oct	10	(Thu)	05:52	06:14	97	12:08	65S	18:01	263	18:23
2024	Oct	11	(Fri)	05:52	06:14	97	12:07	64S	18:01	263	18:23
2024	Oct	12	(Sat)	05:52	06:14	98	12:07	64S	18:00	262	18:22
2024	Oct	13	(Sun)	05:52	06:14	98	12:07	64S	17:59	262	18:21
2024	Oct	14	(Mon)	05:53	06:15	98	12:07	63S	17:58	261	18:20
2024	Oct	15	(Tue)	05:53	06:15	99	12:06	63S	17:58	261	18:20
2024	Oct	16	(Wed)	05:53	06:15	99	12:06	63S	17:57	261	18:19
2024	Oct	17	(Thu)	05:53	06:16	100	12:06	62S	17:56	260	18:18
2024	Oct	18	(Fri)	05:54	06:16	100	12:06	62S	17:55	260	18:18
2024	Oct	19	(Sat)	05:54	06:16	100	12:06	61S	17:55	259	18:17
2024	Oct	20	(Sun)	05:54	06:17	101	12:05	61S	17:54	259	18:16
2024	Oct	21	(Mon)	05:55	06:17	101	12:05	61S	17:53	259	18:16
2024	Oct	22	(Tue)	05:55	06:17	102	12:05	60S	17:53	258	18:15
2024	Oct	23	(Wed)	05:55	06:18	102	12:05	60S	17:52	258	18:14
2024	Oct	24	(Thu)	05:56	06:18	102	12:05	60S	17:52	258	18:14
2024	Oct	25	(Fri)	05:56	06:18	103	12:05	59S	17:51	257	18:13
2024	Oct	26	(Sat)	05:56	06:19	103	12:05	59S	17:50	257	18:13
2024	Oct	27	(Sun)	05:57	06:19	103	12:05	59S	17:50	256	18:12
2024	Oct	28	(Mon)	05:57	06:20	104	12:04	58S	17:49	256	18:12
2024	Oct	29	(Tue)	05:57	06:20	104	12:04	58S	17:49	256	18:11
2024	Oct	30	(Wed)	05:58	06:20	104	12:04	58S	17:48	255	18:11
2024	Oct	31	(Thu)	05:58	06:21	105	12:04	57S	17:48	255	18:10
2024	Nov	01	(Fri)	05:59	06:21	105	12:04	57S	17:47	255	18:10
2024	Nov	02	(Sat)	05:59	06:22	105	12:04	57S	17:47	254	18:09
2024	Nov	03	(Sun)	06:00	06:22	106	12:04	56S	17:46	254	18:09
2024	Nov	04	(Mon)	06:00	06:23	106	12:04	56S	17:46	254	18:08
2024	Nov	05	(Tue)	06:00	06:23	106	12:04	56S	17:45	253	18:08
2024	Nov	06	(Wed)	06:01	06:24	107	12:04	55S	17:45	253	18:08
2024	Nov	07	(Thu)	06:01	06:24	107	12:04	55S	17:45	253	18:07
2024	Nov	08	(Fri)	06:02	06:25	107	12:04	55S	17:44	253	18:07
2024	Nov	09	(Sat)	06:02	06:25	108	12:05	55S	17:44	252	18:07
2024	Nov	10	(Sun)	06:03	06:26	108	12:05	54S	17:43	252	18:06
2024	Nov	11	(Mon)	06:03	06:26	108	12:05	54S	17:43	252	18:06
2024	Nov	12	(Tue)	06:04	06:27	109	12:05	54S	17:43	251	18:06
2024	Nov	13	(Wed)	06:04	06:27	109	12:05	53S	17:43	251	18:06
2024	Nov	14	(Thu)	06:05	06:28	109	12:05	53S	17:42	251	18:05
2024	Nov	15	(Fri)	06:05	06:28	109	12:05	53S	17:42	251	18:05
2024	Nov	16	(Sat)	06:06	06:29	110	12:06	53S	17:42	250	18:05
2024	Nov	17	(Sun)	06:06	06:29	110	12:06	52S	17:42	250	18:05
2024	Nov	18	(Mon)	06:07	06:30	110	12:06	52S	17:42	250	18:05
2024	Nov	19	(Tue)	06:07	06:31	110	12:06	52S	17:42	249	18:05
2024	Nov	20	(Wed)	06:08	06:31	111	12:06	52S	17:41	249	18:05
2024	Nov	21	(Thu)	06:08	06:32	111	12:07	52S	17:41	249	18:05
2024	Nov	22	(Fri)	06:09	06:32	111	12:07	51S	17:41	249	18:05
2024	Nov	23	(Sat)	06:10	06:33	111	12:07	51S	17:41	249	18:05
2024	Nov	24	(Sun)	06:10	06:34	112	12:07	51S	17:41	248	18:05
2024	Nov	25	(Mon)	06:11	06:34	112	12:08	51S	17:41	248	18:05
2024	Nov	26	(Tue)	06:11	06:35	112	12:08	51S	17:41	248	18:05
2024	Nov	27	(Wed)	06:12	06:35	112	12:08	50S	17:41	248	18:05
2024	Nov	28	(Thu)	06:12	06:36	112	12:09	50S	17:41	248	18:05
2024	Nov	29	(Fri)	06:13	06:37	113	12:09	50S	17:41	247	18:05
2024	Nov	30	(Sat)	06:14	06:37	113	12:09	50S	17:42	247	18:05
2024	Dec	01	(Sun)	06:14	06:38	113	12:10	50S	17:42	247	18:05
2024	Dec	02	(Mon)	06:15	06:38	113	12:10	50S	17:42	247	18:05
2024	Dec	03	(Tue)	06:15	06:39	113	12:11	49S	17:42	247	18:06
2024	Dec	04	(Wed)	06:16	06:40	113	12:11	49S	17:42	247	18:06
2024	Dec	05	(Thu)	06:17	06:40	113	12:11	49S	17:42	246	18:06
2024	Dec	06	(Fri)	06:17	06:41	114	12:12	49S	17:43	246	18:06
2024	Dec	07	(Sat)	06:18	06:42	114	12:12	49S	17:43	246	18:07
2024	Dec	08	(Sun)	06:18	06:42	114	12:13	49S	17:43	246	18:07
2024	Dec	09	(Mon)	06:19	06:43	114	12:13	49S	17:43	246	18:07
2024	Dec	10	(Tue)	06:20	06:43	114	12:14	49S	17:44	246	18:07
2024	Dec	11	(Wed)	06:20	06:44	114	12:14	49S	17:44	246	18:08

2024	Dec 12	(Thu)	06:21	06:45	114	12:15	48S	17:44	246	18:08
2024	Dec 13	(Fri)	06:21	06:45	114	12:15	48S	17:45	246	18:09
2024	Dec 14	(Sat)	06:22	06:46	114	12:15	48S	17:45	246	18:09
2024	Dec 15	(Sun)	06:22	06:46	114	12:16	48S	17:46	246	18:09
2024	Dec 16	(Mon)	06:23	06:47	114	12:16	48S	17:46	246	18:10
2024	Dec 17	(Tue)	06:24	06:47	115	12:17	48S	17:46	245	18:10
2024	Dec 18	(Wed)	06:24	06:48	115	12:17	48S	17:47	245	18:11
2024	Dec 19	(Thu)	06:25	06:48	115	12:18	48S	17:47	245	18:11
2024	Dec 20	(Fri)	06:25	06:49	115	12:18	48S	17:48	245	18:12
2024	Dec 21	(Sat)	06:26	06:49	115	12:19	48S	17:48	245	18:12
2024	Dec 22	(Sun)	06:26	06:50	115	12:19	48S	17:49	245	18:13
2024	Dec 23	(Mon)	06:27	06:50	115	12:20	48S	17:49	245	18:13
2024	Dec 24	(Tue)	06:27	06:51	115	12:20	48S	17:50	245	18:14
2024	Dec 25	(Wed)	06:28	06:51	115	12:21	48S	17:50	245	18:14
2024	Dec 26	(Thu)	06:28	06:52	114	12:21	48S	17:51	246	18:15
2024	Dec 27	(Fri)	06:28	06:52	114	12:22	48S	17:51	246	18:15
2024	Dec 28	(Sat)	06:29	06:53	114	12:22	48S	17:52	246	18:16
2024	Dec 29	(Sun)	06:29	06:53	114	12:23	48S	17:53	246	18:16
2024	Dec 30	(Mon)	06:30	06:53	114	12:23	48S	17:53	246	18:17
2024	Dec 31	(Tue)	06:30	06:54	114	12:24	49S	17:54	246	18:18

Moon

Phayao

Location: E 99°49'22.7", N19°08'27.5", 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)	22:29	80	04:12	85S	10:39	283
2024	Jan 02	(Tue)	23:17	86	04:52	79S	11:11	277
2024	Jan 03	(Wed)			05:31	73S	11:42	271
2024	Jan 04	(Thu)	00:04	92	06:11	68S	12:13	265
2024	Jan 05	(Fri)	00:53	98	06:51	62S	12:45	259
2024	Jan 06	(Sat)	01:43	104	07:34	56S	13:21	253
2024	Jan 07	(Sun)	02:37	110	08:21	51S	14:01	248
2024	Jan 08	(Mon)	03:35	115	09:12	47S	14:47	244
2024	Jan 09	(Tue)	04:37	118	10:09	44S	15:41	241
2024	Jan 10	(Wed)	05:41	120	11:11	43S	16:41	240
2024	Jan 11	(Thu)	06:43	120	12:15	43S	17:48	241
2024	Jan 12	(Fri)	07:42	117	13:18	46S	18:56	245
2024	Jan 13	(Sat)	08:35	112	14:17	51S	20:03	250
2024	Jan 14	(Sun)	09:22	106	15:12	57S	21:07	257
2024	Jan 15	(Mon)	10:05	99	16:04	64S	22:08	264
2024	Jan 16	(Tue)	10:44	92	16:53	71S	23:06	272
2024	Jan 17	(Wed)	11:22	85	17:40	78S		
2024	Jan 18	(Thu)	12:00	78	18:28	85S	00:04	279
2024	Jan 19	(Fri)	12:40	72	19:18	90S	01:02	286
2024	Jan 20	(Sat)	13:23	67	20:09	87N	02:00	291
2024	Jan 21	(Sun)	14:10	63	21:03	83N	02:59	296
2024	Jan 22	(Mon)	15:02	61	21:58	82N	03:59	299
2024	Jan 23	(Tue)	15:56	60	22:54	82N	04:56	300
2024	Jan 24	(Wed)	16:52	61	23:47	83N	05:50	299
2024	Jan 25	(Thu)	17:48	64			06:40	297
2024	Jan 26	(Fri)	18:42	68	00:38	86N	07:24	294
2024	Jan 27	(Sat)	19:34	73	01:24	90N	08:03	290
2024	Jan 28	(Sun)	20:23	78	02:08	86S	08:38	284
2024	Jan 29	(Mon)	21:11	84	02:49	81S	09:11	279
2024	Jan 30	(Tue)	21:58	90	03:29	75S	09:42	273
2024	Jan 31	(Wed)	22:46	96	04:07	70S	10:12	267
2024	Feb 01	(Thu)	23:35	102	04:47	64S	10:44	261
2024	Feb 02	(Fri)			05:28	58S	11:17	255
2024	Feb 03	(Sat)	00:26	108	06:12	53S	11:54	250
2024	Feb 04	(Sun)	01:20	113	07:00	48S	12:36	245

2024 Feb 05 (Mon)	02:19 117	07:53 45S	13:25 242
2024 Feb 06 (Tue)	03:20 119	08:51 43S	14:21 240
2024 Feb 07 (Wed)	04:23 120	09:53 43S	15:24 240
2024 Feb 08 (Thu)	05:24 119	10:56 45S	16:31 243
2024 Feb 09 (Fri)	06:20 115	11:58 48S	17:40 247
2024 Feb 10 (Sat)	07:11 110	12:57 54S	18:47 254
2024 Feb 11 (Sun)	07:56 103	13:51 61S	19:51 261
2024 Feb 12 (Mon)	08:38 95	14:43 68S	20:53 269
2024 Feb 13 (Tue)	09:18 88	15:33 76S	21:53 276
2024 Feb 14 (Wed)	09:57 80	16:23 83S	22:53 283
2024 Feb 15 (Thu)	10:38 73	17:13 89S	23:53 290
2024 Feb 16 (Fri)	11:21 68	18:05 88N	
2024 Feb 17 (Sat)	12:07 64	18:59 84N	00:54 295
2024 Feb 18 (Sun)	12:58 61	19:54 82N	01:54 298
2024 Feb 19 (Mon)	13:51 60	20:49 81N	02:52 300
2024 Feb 20 (Tue)	14:47 61	21:43 82N	03:47 300
2024 Feb 21 (Wed)	15:42 63	22:34 85N	04:37 298
2024 Feb 22 (Thu)	16:37 66	23:22 89N	05:22 295
2024 Feb 23 (Fri)	17:29 71		06:03 291
2024 Feb 24 (Sat)	18:19 76	00:06 88S	06:39 286
2024 Feb 25 (Sun)	19:07 82	00:48 83S	07:12 281
2024 Feb 26 (Mon)	19:55 88	01:28 77S	07:43 275
2024 Feb 27 (Tue)	20:42 94	02:06 72S	08:14 269
2024 Feb 28 (Wed)	21:30 100	02:45 66S	08:45 263
2024 Feb 29 (Thu)	22:20 106	03:26 60S	09:17 257
2024 Mar 01 (Fri)	23:12 111	04:08 55S	09:52 251
2024 Mar 02 (Sat)		04:54 50S	10:32 247
2024 Mar 03 (Sun)	00:08 116	05:43 46S	11:16 243
2024 Mar 04 (Mon)	01:07 119	06:38 43S	12:07 240
2024 Mar 05 (Tue)	02:07 120	07:36 42S	13:05 240
2024 Mar 06 (Wed)	03:07 120	08:37 43S	14:09 241
2024 Mar 07 (Thu)	04:04 117	09:38 46S	15:15 245
2024 Mar 08 (Fri)	04:56 113	10:37 51S	16:22 250
2024 Mar 09 (Sat)	05:43 107	11:33 57S	17:28 257
2024 Mar 10 (Sun)	06:27 99	12:27 64S	18:32 264
2024 Mar 11 (Mon)	07:09 91	13:19 72S	19:34 272
2024 Mar 12 (Tue)	07:49 84	14:10 79S	20:36 280
2024 Mar 13 (Wed)	08:30 76	15:02 86S	21:38 287
2024 Mar 14 (Thu)	09:14 70	15:55 89N	22:41 293
2024 Mar 15 (Fri)	10:01 65	16:50 85N	23:44 297
2024 Mar 16 (Sat)	10:51 61	17:47 82N	
2024 Mar 17 (Sun)	11:45 60	18:44 81N	00:45 300
2024 Mar 18 (Mon)	12:41 60	19:39 82N	01:42 300
2024 Mar 19 (Tue)	13:37 62	20:31 84N	02:34 299
2024 Mar 20 (Wed)	14:32 65	21:19 87N	03:21 297
2024 Mar 21 (Thu)	15:25 69	22:05 90S	04:03 293
2024 Mar 22 (Fri)	16:16 74	22:47 85S	04:40 288
2024 Mar 23 (Sat)	17:04 80	23:27 79S	05:14 283
2024 Mar 24 (Sun)	17:52 86		05:46 277
2024 Mar 25 (Mon)	18:39 92	00:06 73S	06:16 271
2024 Mar 26 (Tue)	19:27 99	00:45 68S	06:47 265
2024 Mar 27 (Wed)	20:16 104	01:25 62S	07:19 259
2024 Mar 28 (Thu)	21:08 110	02:07 56S	07:53 253
2024 Mar 29 (Fri)	22:03 115	02:51 51S	08:31 248
2024 Mar 30 (Sat)	23:00 118	03:39 47S	09:14 244
2024 Mar 31 (Sun)	23:59 120	04:32 44S	10:02 241
2024 Apr 01 (Mon)		05:28 42S	10:56 240
2024 Apr 02 (Tue)	00:57 120	06:26 43S	11:56 240
2024 Apr 03 (Wed)	01:53 119	07:25 45S	12:59 243
2024 Apr 04 (Thu)	02:45 115	08:23 48S	14:04 247
2024 Apr 05 (Fri)	03:33 110	09:18 54S	15:08 253
2024 Apr 06 (Sat)	04:17 103	10:11 60S	16:11 260
2024 Apr 07 (Sun)	04:59 96	11:03 68S	17:13 268
2024 Apr 08 (Mon)	05:39 88	11:54 75S	18:14 276
2024 Apr 09 (Tue)	06:20 80	12:46 83S	19:17 284
2024 Apr 10 (Wed)	07:03 73	13:39 89S	20:21 290
2024 Apr 11 (Thu)	07:49 67	14:35 87N	21:26 295

2024 Apr 12 (Fri)	08:39 63	15:33 83N	22:30 299
2024 Apr 13 (Sat)	09:34 60	16:32 81N	23:31 300
2024 Apr 14 (Sun)	10:31 60	17:30 81N	
2024 Apr 15 (Mon)	11:28 61	18:24 83N	00:27 300
2024 Apr 16 (Tue)	12:25 64	19:15 86N	01:17 298
2024 Apr 17 (Wed)	13:19 68	20:02 90N	02:01 294
2024 Apr 18 (Thu)	14:11 73	20:45 87S	02:40 290
2024 Apr 19 (Fri)	15:00 78	21:26 81S	03:15 285
2024 Apr 20 (Sat)	15:48 84	22:05 75S	03:47 279
2024 Apr 21 (Sun)	16:35 90	22:44 70S	04:18 273
2024 Apr 22 (Mon)	17:23 96	23:24 64S	04:49 267
2024 Apr 23 (Tue)	18:12 103		05:21 261
2024 Apr 24 (Wed)	19:03 108	00:05 58S	05:54 255
2024 Apr 25 (Thu)	19:57 113	00:49 53S	06:31 249
2024 Apr 26 (Fri)	20:54 117	01:36 48S	07:12 245
2024 Apr 27 (Sat)	21:53 120	02:28 45S	07:59 242
2024 Apr 28 (Sun)	22:52 120	03:23 43S	08:52 240
2024 Apr 29 (Mon)	23:48 119	04:21 42S	09:50 240
2024 Apr 30 (Tue)		05:19 44S	10:51 242
2024 May 01 (Wed)	00:41 116	06:16 47S	11:54 246
2024 May 02 (Thu)	01:29 112	07:10 52S	12:56 251
2024 May 03 (Fri)	02:12 106	08:03 58S	13:57 257
2024 May 04 (Sat)	02:53 99	08:53 64S	14:57 265
2024 May 05 (Sun)	03:32 91	09:42 72S	15:57 272
2024 May 06 (Mon)	04:12 84	10:32 79S	16:58 280
2024 May 07 (Tue)	04:53 77	11:24 86S	18:00 287
2024 May 08 (Wed)	05:37 70	12:18 90N	19:05 293
2024 May 09 (Thu)	06:25 65	13:16 85N	20:10 297
2024 May 10 (Fri)	07:19 61	14:15 82N	21:14 300
2024 May 11 (Sat)	08:16 60	15:15 81N	22:14 300
2024 May 12 (Sun)	09:15 60	16:13 82N	23:08 299
2024 May 13 (Mon)	10:14 62	17:06 85N	23:56 296
2024 May 14 (Tue)	11:10 66	17:56 88N	
2024 May 15 (Wed)	12:03 71	18:41 88S	00:37 291
2024 May 16 (Thu)	12:54 76	19:23 83S	01:14 286
2024 May 17 (Fri)	13:42 82	20:03 78S	01:48 281
2024 May 18 (Sat)	14:30 88	20:42 72S	02:19 275
2024 May 19 (Sun)	15:17 94	21:21 66S	02:50 269
2024 May 20 (Mon)	16:05 100	22:01 60S	03:21 263
2024 May 21 (Tue)	16:56 106	22:44 55S	03:53 257
2024 May 22 (Wed)	17:50 111	23:31 50S	04:29 251
2024 May 23 (Thu)	18:46 116		05:09 246
2024 May 24 (Fri)	19:45 119	00:22 46S	05:55 243
2024 May 25 (Sat)	20:45 120	01:16 43S	06:46 240
2024 May 26 (Sun)	21:44 120	02:14 42S	07:44 240
2024 May 27 (Mon)	22:38 117	03:14 43S	08:45 241
2024 May 28 (Tue)	23:27 113	04:11 46S	09:48 244
2024 May 29 (Wed)		05:07 50S	10:50 249
2024 May 30 (Thu)	00:11 108	05:59 56S	11:51 255
2024 May 31 (Fri)	00:52 101	06:49 62S	12:50 262
2024 Jun 01 (Sat)	01:31 94	07:37 69S	13:48 270
2024 Jun 02 (Sun)	02:09 87	08:25 76S	14:46 277
2024 Jun 03 (Mon)	02:48 79	09:14 83S	15:46 284
2024 Jun 04 (Tue)	03:29 73	10:06 89S	16:48 291
2024 Jun 05 (Wed)	04:15 67	11:01 87N	17:52 296
2024 Jun 06 (Thu)	05:05 63	11:59 83N	18:56 299
2024 Jun 07 (Fri)	06:01 60	12:59 81N	19:58 300
2024 Jun 08 (Sat)	06:59 60	13:58 82N	20:56 299
2024 Jun 09 (Sun)	07:59 61	14:55 83N	21:47 297
2024 Jun 10 (Mon)	08:58 65	15:47 87N	22:32 293
2024 Jun 11 (Tue)	09:53 69	16:34 90S	23:11 288
2024 Jun 12 (Wed)	10:46 74	17:18 85S	23:46 283
2024 Jun 13 (Thu)	11:35 80	17:59 80S	
2024 Jun 14 (Fri)	12:23 86	18:38 74S	00:18 277
2024 Jun 15 (Sat)	13:10 92	19:17 68S	00:49 271
2024 Jun 16 (Sun)	13:58 98	19:57 62S	01:20 265
2024 Jun 17 (Mon)	14:47 104	20:38 57S	01:51 259

2024 Jun 18 (Tue)	15:39 109	21:23 52S	02:26 253
2024 Jun 19 (Wed)	16:35 114	22:12 47S	03:04 248
2024 Jun 20 (Thu)	17:33 118	23:06 44S	03:47 244
2024 Jun 21 (Fri)	18:34 120		04:37 241
2024 Jun 22 (Sat)	19:34 120	00:04 43S	05:33 240
2024 Jun 23 (Sun)	20:31 118	01:04 43S	06:34 240
2024 Jun 24 (Mon)	21:23 115	02:04 45S	07:39 243
2024 Jun 25 (Tue)	22:10 109	03:01 49S	08:43 248
2024 Jun 26 (Wed)	22:52 103	03:55 54S	09:45 254
2024 Jun 27 (Thu)	23:31 96	04:46 60S	10:45 260
2024 Jun 28 (Fri)		05:35 67S	11:43 268
2024 Jun 29 (Sat)	00:09 89	06:22 74S	12:41 275
2024 Jun 30 (Sun)	00:47 81	07:10 81S	13:39 282
2024 Jul 01 (Mon)	01:27 75	08:00 88S	14:39 289
2024 Jul 02 (Tue)	02:10 69	08:53 88N	15:40 294
2024 Jul 03 (Wed)	02:57 64	09:49 84N	16:43 298
2024 Jul 04 (Thu)	03:50 61	10:47 82N	17:46 300
2024 Jul 05 (Fri)	04:47 60	11:46 81N	18:44 300
2024 Jul 06 (Sat)	05:46 61	12:43 83N	19:38 298
2024 Jul 07 (Sun)	06:45 63	13:37 85N	20:25 295
2024 Jul 08 (Mon)	07:42 67	14:27 89N	21:07 290
2024 Jul 09 (Tue)	08:36 72	15:12 87S	21:43 285
2024 Jul 10 (Wed)	09:27 78	15:54 82S	22:17 279
2024 Jul 11 (Thu)	10:16 84	16:34 76S	22:48 273
2024 Jul 12 (Fri)	11:03 90	17:13 70S	23:19 267
2024 Jul 13 (Sat)	11:50 96	17:52 64S	23:50 261
2024 Jul 14 (Sun)	12:39 102	18:32 59S	
2024 Jul 15 (Mon)	13:29 107	19:15 53S	00:23 256
2024 Jul 16 (Tue)	14:22 112	20:02 49S	00:58 250
2024 Jul 17 (Wed)	15:19 116	20:53 45S	01:39 246
2024 Jul 18 (Thu)	16:19 119	21:49 43S	02:25 242
2024 Jul 19 (Fri)	17:19 120	22:49 42S	03:19 240
2024 Jul 20 (Sat)	18:18 119	23:49 44S	04:18 240
2024 Jul 21 (Sun)	19:14 116		05:22 242
2024 Jul 22 (Mon)	20:04 111	00:49 47S	06:28 246
2024 Jul 23 (Tue)	20:49 105	01:46 52S	07:33 251
2024 Jul 24 (Wed)	21:30 98	02:40 58S	08:36 258
2024 Jul 25 (Thu)	22:09 91	03:30 65S	09:36 265
2024 Jul 26 (Fri)	22:47 83	04:19 72S	10:35 273
2024 Jul 27 (Sat)	23:27 76	05:08 80S	11:34 280
2024 Jul 28 (Sun)		05:57 86S	12:33 287
2024 Jul 29 (Mon)	00:09 70	06:49 90N	13:34 293
2024 Jul 30 (Tue)	00:54 65	07:44 85N	14:36 297
2024 Jul 31 (Wed)	01:45 62	08:40 82N	15:38 300
2024 Aug 01 (Thu)	02:40 60	09:38 81N	16:37 300
2024 Aug 02 (Fri)	03:37 60	10:35 82N	17:32 299
2024 Aug 03 (Sat)	04:36 62	11:30 84N	18:20 296
2024 Aug 04 (Sun)	05:33 65	12:20 88N	19:03 292
2024 Aug 05 (Mon)	06:28 70	13:07 89S	19:42 287
2024 Aug 06 (Tue)	07:20 75	13:50 84S	20:16 282
2024 Aug 07 (Wed)	08:10 81	14:31 78S	20:48 276
2024 Aug 08 (Thu)	08:57 87	15:10 72S	21:19 269
2024 Aug 09 (Fri)	09:44 94	15:49 66S	21:49 263
2024 Aug 10 (Sat)	10:32 100	16:28 61S	22:21 258
2024 Aug 11 (Sun)	11:21 105	17:10 55S	22:55 252
2024 Aug 12 (Mon)	12:12 111	17:54 51S	23:33 247
2024 Aug 13 (Tue)	13:06 115	18:42 47S	
2024 Aug 14 (Wed)	14:04 118	19:35 44S	00:16 243
2024 Aug 15 (Thu)	15:03 120	20:32 42S	01:05 241
2024 Aug 16 (Fri)	16:02 120	21:32 43S	02:01 240
2024 Aug 17 (Sat)	16:59 118	22:32 45S	03:02 240
2024 Aug 18 (Sun)	17:52 114	23:31 49S	04:08 243
2024 Aug 19 (Mon)	18:39 108		05:14 248
2024 Aug 20 (Tue)	19:23 101	00:27 55S	06:18 255
2024 Aug 21 (Wed)	20:04 94	01:20 62S	07:21 262
2024 Aug 22 (Thu)	20:44 86	02:11 69S	08:23 270
2024 Aug 23 (Fri)	21:24 79	03:01 77S	09:24 278

2024 Aug 24 (Sat)	22:06	72	03:52	84S	10:25	285
2024 Aug 25 (Sun)	22:52	66	04:44	90S	11:27	291
2024 Aug 26 (Mon)	23:41	62	05:39	86N	12:30	296
2024 Aug 27 (Tue)			06:36	83N	13:33	299
2024 Aug 28 (Wed)	00:35	60	07:33	81N	14:33	300
2024 Aug 29 (Thu)	01:32	60	08:31	81N	15:28	300
2024 Aug 30 (Fri)	02:30	61	09:26	83N	16:18	297
2024 Aug 31 (Sat)	03:27	64	10:17	86N	17:02	294
2024 Sep 01 (Sun)	04:23	68	11:04	91N	17:42	289
2024 Sep 02 (Mon)	05:15	74	11:48	86S	18:17	284
2024 Sep 03 (Tue)	06:05	79	12:29	80S	18:49	278
2024 Sep 04 (Wed)	06:53	85	13:09	74S	19:20	272
2024 Sep 05 (Thu)	07:40	92	13:47	68S	19:51	265
2024 Sep 06 (Fri)	08:27	98	14:27	63S	20:22	259
2024 Sep 07 (Sat)	09:16	104	15:07	57S	20:55	254
2024 Sep 08 (Sun)	10:06	109	15:50	52S	21:30	249
2024 Sep 09 (Mon)	10:58	114	16:36	48S	22:11	244
2024 Sep 10 (Tue)	11:53	117	17:26	45S	22:56	241
2024 Sep 11 (Wed)	12:50	120	18:20	43S	23:48	240
2024 Sep 12 (Thu)	13:48	121	19:17	42S		
2024 Sep 13 (Fri)	14:45	119	20:15	44S	00:45	240
2024 Sep 14 (Sat)	15:38	116	21:13	47S	01:48	242
2024 Sep 15 (Sun)	16:27	112	22:10	52S	02:52	246
2024 Sep 16 (Mon)	17:13	105	23:04	58S	03:57	251
2024 Sep 17 (Tue)	17:55	98	23:56	66S	05:00	258
2024 Sep 18 (Wed)	18:36	90			06:03	266
2024 Sep 19 (Thu)	19:17	82	00:48	73S	07:06	274
2024 Sep 20 (Fri)	19:59	75	01:40	81S	08:09	282
2024 Sep 21 (Sat)	20:45	68	02:33	88S	09:13	289
2024 Sep 22 (Sun)	21:34	64	03:29	88N	10:18	294
2024 Sep 23 (Mon)	22:28	61	04:27	84N	11:23	298
2024 Sep 24 (Tue)	23:26	59	05:26	81N	12:26	300
2024 Sep 25 (Wed)			06:25	81N	13:24	300
2024 Sep 26 (Thu)	00:24	60	07:21	82N	14:16	298
2024 Sep 27 (Fri)	01:22	63	08:14	85N	15:02	295
2024 Sep 28 (Sat)	02:18	67	09:03	89N	15:43	291
2024 Sep 29 (Sun)	03:11	72	09:47	87S	16:19	285
2024 Sep 30 (Mon)	04:02	77	10:29	82S	16:52	280
2024 Oct 01 (Tue)	04:50	83	11:09	76S	17:23	274
2024 Oct 02 (Wed)	05:37	90	11:47	70S	17:53	267
2024 Oct 03 (Thu)	06:24	96	12:26	64S	18:24	261
2024 Oct 04 (Fri)	07:12	102	13:06	59S	18:56	256
2024 Oct 05 (Sat)	08:02	107	13:48	54S	19:31	250
2024 Oct 06 (Sun)	08:53	112	14:33	49S	20:09	246
2024 Oct 07 (Mon)	09:47	116	15:21	45S	20:53	242
2024 Oct 08 (Tue)	10:43	119	16:13	43S	21:42	240
2024 Oct 09 (Wed)	11:40	121	17:08	42S	22:36	239
2024 Oct 10 (Thu)	12:35	120	18:04	43S	23:34	241
2024 Oct 11 (Fri)	13:28	118	19:01	45S		
2024 Oct 12 (Sat)	14:17	114	19:56	49S	00:36	244
2024 Oct 13 (Sun)	15:03	108	20:49	55S	01:38	248
2024 Oct 14 (Mon)	15:45	102	21:41	62S	02:40	255
2024 Oct 15 (Tue)	16:26	94	22:32	69S	03:42	262
2024 Oct 16 (Wed)	17:06	86	23:23	77S	04:44	270
2024 Oct 17 (Thu)	17:48	79			05:46	278
2024 Oct 18 (Fri)	18:32	72	00:16	84S	06:50	285
2024 Oct 19 (Sat)	19:21	66	01:12	91S	07:57	292
2024 Oct 20 (Sun)	20:15	62	02:11	86N	09:04	297
2024 Oct 21 (Mon)	21:13	60	03:12	82N	10:11	300
2024 Oct 22 (Tue)	22:14	60	04:13	81N	11:13	300
2024 Oct 23 (Wed)	23:14	62	05:13	82N	12:10	299
2024 Oct 24 (Thu)			06:08	84N	12:59	296
2024 Oct 25 (Fri)	00:12	65	06:59	88N	13:42	292
2024 Oct 26 (Sat)	01:07	70	07:45	89S	14:20	287
2024 Oct 27 (Sun)	01:58	75	08:28	84S	14:53	281
2024 Oct 28 (Mon)	02:47	81	09:08	78S	15:25	276
2024 Oct 29 (Tue)	03:34	87	09:47	72S	15:56	269

2024 Oct 30 (Wed)	04:21 94	10:26 66S	16:26 263
2024 Oct 31 (Thu)	05:09 100	11:05 61S	16:58 257
2024 Nov 01 (Fri)	05:58 105	11:47 55S	17:32 252
2024 Nov 02 (Sat)	06:49 111	12:31 50S	18:09 247
2024 Nov 03 (Sun)	07:42 115	13:18 47S	18:51 243
2024 Nov 04 (Mon)	08:38 118	14:09 44S	19:39 241
2024 Nov 05 (Tue)	09:35 120	15:03 42S	20:31 240
2024 Nov 06 (Wed)	10:31 120	15:59 43S	21:28 240
2024 Nov 07 (Thu)	11:24 119	16:55 45S	22:28 243
2024 Nov 08 (Fri)	12:13 115	17:49 48S	23:28 247
2024 Nov 09 (Sat)	12:58 111	18:41 53S	
2024 Nov 10 (Sun)	13:40 105	19:31 59S	00:28 252
2024 Nov 11 (Mon)	14:19 98	20:20 66S	01:28 259
2024 Nov 12 (Tue)	14:58 90	21:09 73S	02:27 266
2024 Nov 13 (Wed)	15:37 82	22:00 80S	03:26 274
2024 Nov 14 (Thu)	16:20 75	22:53 87S	04:28 281
2024 Nov 15 (Fri)	17:06 69	23:50 88N	05:32 288
2024 Nov 16 (Sat)	17:58 64		06:40 294
2024 Nov 17 (Sun)	18:55 61	00:51 84N	07:48 298
2024 Nov 18 (Mon)	19:57 60	01:54 82N	08:54 300
2024 Nov 19 (Tue)	20:59 61	02:57 81N	09:56 300
2024 Nov 20 (Wed)	22:00 64	03:56 83N	10:50 298
2024 Nov 21 (Thu)	22:58 68	04:50 86N	11:37 294
2024 Nov 22 (Fri)	23:51 74	05:40 91N	12:17 289
2024 Nov 23 (Sat)		06:24 86S	12:53 283
2024 Nov 24 (Sun)	00:42 79	07:06 80S	13:26 278
2024 Nov 25 (Mon)	01:30 85	07:45 74S	13:57 271
2024 Nov 26 (Tue)	02:17 92	08:24 68S	14:27 265
2024 Nov 27 (Wed)	03:04 98	09:03 63S	14:58 259
2024 Nov 28 (Thu)	03:52 104	09:44 57S	15:31 254
2024 Nov 29 (Fri)	04:43 109	10:27 52S	16:08 249
2024 Nov 30 (Sat)	05:36 114	11:14 48S	16:49 245
2024 Dec 01 (Sun)	06:31 117	12:04 45S	17:35 241
2024 Dec 02 (Mon)	07:29 120	12:58 43S	18:26 240
2024 Dec 03 (Tue)	08:26 120	13:54 43S	19:23 240
2024 Dec 04 (Wed)	09:20 119	14:50 44S	20:22 242
2024 Dec 05 (Thu)	10:11 116	15:45 47S	21:23 245
2024 Dec 06 (Fri)	10:57 112	16:38 51S	22:23 251
2024 Dec 07 (Sat)	11:39 106	17:28 57S	23:21 257
2024 Dec 08 (Sun)	12:18 100	18:16 64S	
2024 Dec 09 (Mon)	12:55 93	19:03 70S	00:18 264
2024 Dec 10 (Tue)	13:33 85	19:51 78S	01:16 271
2024 Dec 11 (Wed)	14:13 78	20:41 84S	02:14 278
2024 Dec 12 (Thu)	14:55 71	21:35 91S	03:15 286
2024 Dec 13 (Fri)	15:43 66	22:32 86N	04:19 292
2024 Dec 14 (Sat)	16:37 62	23:34 83N	05:25 297
2024 Dec 15 (Sun)	17:37 60		06:32 299
2024 Dec 16 (Mon)	18:40 60	00:37 81N	07:37 300
2024 Dec 17 (Tue)	19:43 62	01:38 82N	08:35 299
2024 Dec 18 (Wed)	20:43 66	02:36 85N	09:26 296
2024 Dec 19 (Thu)	21:40 71	03:29 89N	10:11 291
2024 Dec 20 (Fri)	22:33 77	04:17 88S	10:49 286
2024 Dec 21 (Sat)	23:22 83	05:00 82S	11:24 280
2024 Dec 22 (Sun)		05:41 76S	11:56 274
2024 Dec 23 (Mon)	00:10 89	06:20 70S	12:26 268
2024 Dec 24 (Tue)	00:57 96	06:59 65S	12:57 262
2024 Dec 25 (Wed)	01:45 101	07:39 59S	13:30 256
2024 Dec 26 (Thu)	02:34 107	08:21 54S	14:05 251
2024 Dec 27 (Fri)	03:26 112	09:06 49S	14:44 246
2024 Dec 28 (Sat)	04:21 116	09:55 46S	15:28 242
2024 Dec 29 (Sun)	05:18 119	10:48 43S	16:18 240
2024 Dec 30 (Mon)	06:16 120	11:45 42S	17:13 240
2024 Dec 31 (Tue)	07:12 120	12:42 43S	18:13 241