

Sun

Nong Khai

Location: E102°45'39.5", N17°53'24.0", 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)	05:49	06:40	114	12:12	50S	17:45	246	18:35
2024	Jan	02 (Tue)	05:49	06:40	114	12:13	50S	17:45	246	18:36
2024	Jan	03 (Wed)	05:50	06:40	114	12:13	50S	17:46	246	18:36
2024	Jan	04 (Thu)	05:50	06:41	114	12:14	50S	17:46	246	18:37
2024	Jan	05 (Fri)	05:51	06:41	114	12:14	50S	17:47	246	18:38
2024	Jan	06 (Sat)	05:51	06:41	114	12:14	50S	17:48	247	18:38
2024	Jan	07 (Sun)	05:51	06:42	113	12:15	50S	17:48	247	18:39
2024	Jan	08 (Mon)	05:51	06:42	113	12:15	51S	17:49	247	18:39
2024	Jan	09 (Tue)	05:52	06:42	113	12:16	51S	17:49	247	18:40
2024	Jan	10 (Wed)	05:52	06:42	113	12:16	51S	17:50	247	18:40
2024	Jan	11 (Thu)	05:52	06:43	113	12:17	51S	17:51	247	18:41
2024	Jan	12 (Fri)	05:52	06:43	113	12:17	51S	17:51	247	18:42
2024	Jan	13 (Sat)	05:53	06:43	112	12:17	51S	17:52	248	18:42
2024	Jan	14 (Sun)	05:53	06:43	112	12:18	51S	17:53	248	18:43
2024	Jan	15 (Mon)	05:53	06:43	112	12:18	52S	17:53	248	18:43
2024	Jan	16 (Tue)	05:53	06:43	112	12:18	52S	17:54	248	18:44
2024	Jan	17 (Wed)	05:53	06:43	112	12:19	52S	17:54	248	18:44
2024	Jan	18 (Thu)	05:53	06:43	112	12:19	52S	17:55	249	18:45
2024	Jan	19 (Fri)	05:54	06:43	111	12:19	52S	17:56	249	18:46
2024	Jan	20 (Sat)	05:54	06:43	111	12:20	53S	17:56	249	18:46
2024	Jan	21 (Sun)	05:54	06:43	111	12:20	53S	17:57	249	18:47
2024	Jan	22 (Mon)	05:54	06:43	111	12:20	53S	17:58	250	18:47
2024	Jan	23 (Tue)	05:54	06:43	110	12:21	53S	17:58	250	18:48
2024	Jan	24 (Wed)	05:54	06:43	110	12:21	53S	17:59	250	18:48
2024	Jan	25 (Thu)	05:54	06:43	110	12:21	54S	17:59	250	18:49
2024	Jan	26 (Fri)	05:54	06:43	110	12:21	54S	18:00	251	18:49
2024	Jan	27 (Sat)	05:54	06:43	109	12:22	54S	18:00	251	18:50
2024	Jan	28 (Sun)	05:53	06:43	109	12:22	54S	18:01	251	18:50
2024	Jan	29 (Mon)	05:53	06:42	109	12:22	55S	18:02	251	18:51
2024	Jan	30 (Tue)	05:53	06:42	109	12:22	55S	18:02	252	18:51
2024	Jan	31 (Wed)	05:53	06:42	108	12:22	55S	18:03	252	18:52
2024	Feb	01 (Thu)	05:53	06:42	108	12:22	56S	18:03	252	18:52
2024	Feb	02 (Fri)	05:53	06:42	108	12:23	56S	18:04	253	18:53
2024	Feb	03 (Sat)	05:53	06:41	107	12:23	56S	18:04	253	18:53
2024	Feb	04 (Sun)	05:52	06:41	107	12:23	56S	18:05	253	18:53
2024	Feb	05 (Mon)	05:52	06:41	107	12:23	57S	18:05	253	18:54
2024	Feb	06 (Tue)	05:52	06:40	106	12:23	57S	18:06	254	18:54
2024	Feb	07 (Wed)	05:52	06:40	106	12:23	57S	18:06	254	18:55
2024	Feb	08 (Thu)	05:51	06:40	106	12:23	58S	18:07	254	18:55
2024	Feb	09 (Fri)	05:51	06:39	105	12:23	58S	18:07	255	18:56
2024	Feb	10 (Sat)	05:51	06:39	105	12:23	58S	18:08	255	18:56
2024	Feb	11 (Sun)	05:50	06:38	105	12:23	59S	18:08	255	18:56
2024	Feb	12 (Mon)	05:50	06:38	104	12:23	59S	18:09	256	18:57
2024	Feb	13 (Tue)	05:49	06:37	104	12:23	59S	18:09	256	18:57
2024	Feb	14 (Wed)	05:49	06:37	104	12:23	60S	18:09	256	18:57
2024	Feb	15 (Thu)	05:49	06:37	103	12:23	60S	18:10	257	18:58
2024	Feb	16 (Fri)	05:48	06:36	103	12:23	60S	18:10	257	18:58
2024	Feb	17 (Sat)	05:48	06:35	103	12:23	61S	18:11	258	18:58
2024	Feb	18 (Sun)	05:47	06:35	102	12:23	61S	18:11	258	18:59
2024	Feb	19 (Mon)	05:47	06:34	102	12:23	61S	18:11	258	18:59
2024	Feb	20 (Tue)	05:46	06:34	101	12:23	62S	18:12	259	18:59
2024	Feb	21 (Wed)	05:46	06:33	101	12:23	62S	18:12	259	19:00
2024	Feb	22 (Thu)	05:45	06:33	101	12:23	62S	18:13	259	19:00
2024	Feb	23 (Fri)	05:45	06:32	100	12:22	63S	18:13	260	19:00
2024	Feb	24 (Sat)	05:44	06:31	100	12:22	63S	18:13	260	19:01
2024	Feb	25 (Sun)	05:43	06:31	100	12:22	64S	18:14	261	19:01
2024	Feb	26 (Mon)	05:43	06:30	99	12:22	64S	18:14	261	19:01
2024	Feb	27 (Tue)	05:42	06:29	99	12:22	64S	18:14	261	19:02
2024	Feb	28 (Wed)	05:42	06:29	98	12:22	65S	18:15	262	19:02
2024	Feb	29 (Thu)	05:41	06:28	98	12:21	65S	18:15	262	19:02

2024	Mar	01	(Fri)	05:40	06:27	98	12:21	65S	18:15	263	19:02
2024	Mar	02	(Sat)	05:40	06:27	97	12:21	66S	18:16	263	19:03
2024	Mar	03	(Sun)	05:39	06:26	97	12:21	66S	18:16	263	19:03
2024	Mar	04	(Mon)	05:38	06:25	96	12:21	67S	18:16	264	19:03
2024	Mar	05	(Tue)	05:38	06:25	96	12:20	67S	18:16	264	19:03
2024	Mar	06	(Wed)	05:37	06:24	96	12:20	67S	18:17	265	19:04
2024	Mar	07	(Thu)	05:36	06:23	95	12:20	68S	18:17	265	19:04
2024	Mar	08	(Fri)	05:35	06:22	95	12:20	68S	18:17	265	19:04
2024	Mar	09	(Sat)	05:35	06:22	94	12:19	69S	18:17	266	19:04
2024	Mar	10	(Sun)	05:34	06:21	94	12:19	69S	18:18	266	19:05
2024	Mar	11	(Mon)	05:33	06:20	94	12:19	69S	18:18	267	19:05
2024	Mar	12	(Tue)	05:32	06:19	93	12:19	70S	18:18	267	19:05
2024	Mar	13	(Wed)	05:32	06:19	93	12:18	70S	18:18	268	19:05
2024	Mar	14	(Thu)	05:31	06:18	92	12:18	70S	18:19	268	19:06
2024	Mar	15	(Fri)	05:30	06:17	92	12:18	71S	18:19	268	19:06
2024	Mar	16	(Sat)	05:29	06:16	91	12:18	71S	18:19	269	19:06
2024	Mar	17	(Sun)	05:29	06:15	91	12:17	72S	18:19	269	19:06
2024	Mar	18	(Mon)	05:28	06:15	91	12:17	72S	18:20	270	19:06
2024	Mar	19	(Tue)	05:27	06:14	90	12:17	72S	18:20	270	19:07
2024	Mar	20	(Wed)	05:26	06:13	90	12:16	73S	18:20	270	19:07
2024	Mar	21	(Thu)	05:25	06:12	89	12:16	73S	18:20	271	19:07
2024	Mar	22	(Fri)	05:24	06:11	89	12:16	74S	18:20	271	19:07
2024	Mar	23	(Sat)	05:24	06:11	89	12:15	74S	18:21	272	19:08
2024	Mar	24	(Sun)	05:23	06:10	88	12:15	74S	18:21	272	19:08
2024	Mar	25	(Mon)	05:22	06:09	88	12:15	75S	18:21	272	19:08
2024	Mar	26	(Tue)	05:21	06:08	87	12:15	75S	18:21	273	19:08
2024	Mar	27	(Wed)	05:20	06:07	87	12:14	76S	18:21	273	19:09
2024	Mar	28	(Thu)	05:19	06:07	86	12:14	76S	18:22	274	19:09
2024	Mar	29	(Fri)	05:19	06:06	86	12:14	76S	18:22	274	19:09
2024	Mar	30	(Sat)	05:18	06:05	86	12:13	77S	18:22	275	19:09
2024	Mar	31	(Sun)	05:17	06:04	85	12:13	77S	18:22	275	19:10
2024	Apr	01	(Mon)	05:16	06:03	85	12:13	78S	18:22	275	19:10
2024	Apr	02	(Tue)	05:15	06:03	84	12:12	78S	18:23	276	19:10
2024	Apr	03	(Wed)	05:14	06:02	84	12:12	78S	18:23	276	19:10
2024	Apr	04	(Thu)	05:14	06:01	84	12:12	79S	18:23	277	19:11
2024	Apr	05	(Fri)	05:13	06:00	83	12:12	79S	18:23	277	19:11
2024	Apr	06	(Sat)	05:12	05:59	83	12:11	79S	18:23	277	19:11
2024	Apr	07	(Sun)	05:11	05:59	82	12:11	80S	18:24	278	19:11
2024	Apr	08	(Mon)	05:10	05:58	82	12:11	80S	18:24	278	19:12
2024	Apr	09	(Tue)	05:09	05:57	82	12:10	81S	18:24	279	19:12
2024	Apr	10	(Wed)	05:09	05:56	81	12:10	81S	18:24	279	19:12
2024	Apr	11	(Thu)	05:08	05:56	81	12:10	81S	18:25	279	19:12
2024	Apr	12	(Fri)	05:07	05:55	81	12:10	82S	18:25	280	19:13
2024	Apr	13	(Sat)	05:06	05:54	80	12:09	82S	18:25	280	19:13
2024	Apr	14	(Sun)	05:05	05:53	80	12:09	82S	18:25	280	19:13
2024	Apr	15	(Mon)	05:05	05:53	79	12:09	83S	18:26	281	19:14
2024	Apr	16	(Tue)	05:04	05:52	79	12:09	83S	18:26	281	19:14
2024	Apr	17	(Wed)	05:03	05:51	79	12:08	83S	18:26	282	19:14
2024	Apr	18	(Thu)	05:02	05:50	78	12:08	84S	18:26	282	19:15
2024	Apr	19	(Fri)	05:01	05:50	78	12:08	84S	18:27	282	19:15
2024	Apr	20	(Sat)	05:01	05:49	78	12:08	85S	18:27	283	19:15
2024	Apr	21	(Sun)	05:00	05:48	77	12:08	85S	18:27	283	19:16
2024	Apr	22	(Mon)	04:59	05:48	77	12:07	85S	18:27	283	19:16
2024	Apr	23	(Tue)	04:58	05:47	76	12:07	86S	18:28	284	19:16
2024	Apr	24	(Wed)	04:58	05:47	76	12:07	86S	18:28	284	19:17
2024	Apr	25	(Thu)	04:57	05:46	76	12:07	86S	18:28	284	19:17
2024	Apr	26	(Fri)	04:56	05:45	75	12:07	86S	18:28	285	19:17
2024	Apr	27	(Sat)	04:56	05:45	75	12:07	87S	18:29	285	19:18
2024	Apr	28	(Sun)	04:55	05:44	75	12:06	87S	18:29	285	19:18
2024	Apr	29	(Mon)	04:54	05:44	74	12:06	87S	18:29	286	19:19
2024	Apr	30	(Tue)	04:54	05:43	74	12:06	88S	18:30	286	19:19
2024	May	01	(Wed)	04:53	05:42	74	12:06	88S	18:30	286	19:19
2024	May	02	(Thu)	04:52	05:42	73	12:06	88S	18:30	287	19:20
2024	May	03	(Fri)	04:52	05:41	73	12:06	89S	18:31	287	19:20
2024	May	04	(Sat)	04:51	05:41	73	12:06	89S	18:31	287	19:21
2024	May	05	(Sun)	04:51	05:40	73	12:06	89S	18:31	288	19:21
2024	May	06	(Mon)	04:50	05:40	72	12:06	89S	18:31	288	19:21
2024	May	07	(Tue)	04:49	05:39	72	12:05	90S	18:32	288	19:22
2024	May	08	(Wed)	04:49	05:39	72	12:05	90S	18:32	288	19:22
2024	May	09	(Thu)	04:48	05:38	71	12:05	90S	18:33	289	19:23
2024	May	10	(Fri)	04:48	05:38	71	12:05	91S	18:33	289	19:23
2024	May	11	(Sat)	04:47	05:38	71	12:05	91N	18:33	289	19:24

2024	May	12	(Sun)	04:47	05:37	71	12:05	90N	18:34	290	19:24
2024	May	13	(Mon)	04:46	05:37	70	12:05	90N	18:34	290	19:25
2024	May	14	(Tue)	04:46	05:37	70	12:05	90N	18:34	290	19:25
2024	May	15	(Wed)	04:45	05:36	70	12:05	90N	18:35	290	19:25
2024	May	16	(Thu)	04:45	05:36	70	12:05	89N	18:35	291	19:26
2024	May	17	(Fri)	04:45	05:36	69	12:05	89N	18:35	291	19:26
2024	May	18	(Sat)	04:44	05:35	69	12:05	89N	18:36	291	19:27
2024	May	19	(Sun)	04:44	05:35	69	12:05	89N	18:36	291	19:27
2024	May	20	(Mon)	04:44	05:35	69	12:06	89N	18:36	291	19:28
2024	May	21	(Tue)	04:43	05:35	68	12:06	88N	18:37	292	19:28
2024	May	22	(Wed)	04:43	05:34	68	12:06	88N	18:37	292	19:29
2024	May	23	(Thu)	04:43	05:34	68	12:06	88N	18:38	292	19:29
2024	May	24	(Fri)	04:42	05:34	68	12:06	88N	18:38	292	19:30
2024	May	25	(Sat)	04:42	05:34	68	12:06	88N	18:38	293	19:30
2024	May	26	(Sun)	04:42	05:34	67	12:06	87N	18:39	293	19:30
2024	May	27	(Mon)	04:42	05:33	67	12:06	87N	18:39	293	19:31
2024	May	28	(Tue)	04:41	05:33	67	12:06	87N	18:39	293	19:31
2024	May	29	(Wed)	04:41	05:33	67	12:06	87N	18:40	293	19:32
2024	May	30	(Thu)	04:41	05:33	67	12:07	87N	18:40	293	19:32
2024	May	31	(Fri)	04:41	05:33	67	12:07	87N	18:41	293	19:33
2024	Jun	01	(Sat)	04:41	05:33	66	12:07	86N	18:41	294	19:33
2024	Jun	02	(Sun)	04:41	05:33	66	12:07	86N	18:41	294	19:34
2024	Jun	03	(Mon)	04:41	05:33	66	12:07	86N	18:42	294	19:34
2024	Jun	04	(Tue)	04:40	05:33	66	12:07	86N	18:42	294	19:34
2024	Jun	05	(Wed)	04:40	05:33	66	12:08	86N	18:42	294	19:35
2024	Jun	06	(Thu)	04:40	05:33	66	12:08	86N	18:43	294	19:35
2024	Jun	07	(Fri)	04:40	05:33	66	12:08	86N	18:43	294	19:36
2024	Jun	08	(Sat)	04:40	05:33	66	12:08	86N	18:43	294	19:36
2024	Jun	09	(Sun)	04:40	05:33	66	12:08	86N	18:44	295	19:36
2024	Jun	10	(Mon)	04:40	05:33	65	12:08	86N	18:44	295	19:37
2024	Jun	11	(Tue)	04:41	05:33	65	12:09	85N	18:44	295	19:37
2024	Jun	12	(Wed)	04:41	05:33	65	12:09	85N	18:45	295	19:37
2024	Jun	13	(Thu)	04:41	05:33	65	12:09	85N	18:45	295	19:38
2024	Jun	14	(Fri)	04:41	05:34	65	12:09	85N	18:45	295	19:38
2024	Jun	15	(Sat)	04:41	05:34	65	12:10	85N	18:45	295	19:38
2024	Jun	16	(Sun)	04:41	05:34	65	12:10	85N	18:46	295	19:39
2024	Jun	17	(Mon)	04:41	05:34	65	12:10	85N	18:46	295	19:39
2024	Jun	18	(Tue)	04:41	05:34	65	12:10	85N	18:46	295	19:39
2024	Jun	19	(Wed)	04:42	05:34	65	12:10	85N	18:46	295	19:39
2024	Jun	20	(Thu)	04:42	05:35	65	12:11	85N	18:47	295	19:40
2024	Jun	21	(Fri)	04:42	05:35	65	12:11	85N	18:47	295	19:40
2024	Jun	22	(Sat)	04:42	05:35	65	12:11	85N	18:47	295	19:40
2024	Jun	23	(Sun)	04:42	05:35	65	12:11	85N	18:47	295	19:40
2024	Jun	24	(Mon)	04:43	05:35	65	12:11	85N	18:47	295	19:40
2024	Jun	25	(Tue)	04:43	05:36	65	12:12	85N	18:48	295	19:40
2024	Jun	26	(Wed)	04:43	05:36	65	12:12	85N	18:48	295	19:41
2024	Jun	27	(Thu)	04:43	05:36	65	12:12	85N	18:48	295	19:41
2024	Jun	28	(Fri)	04:44	05:37	65	12:12	85N	18:48	295	19:41
2024	Jun	29	(Sat)	04:44	05:37	65	12:13	85N	18:48	295	19:41
2024	Jun	30	(Sun)	04:44	05:37	65	12:13	85N	18:48	295	19:41
2024	Jul	01	(Mon)	04:45	05:37	65	12:13	86N	18:48	295	19:41
2024	Jul	02	(Tue)	04:45	05:38	65	12:13	86N	18:48	295	19:41
2024	Jul	03	(Wed)	04:45	05:38	66	12:13	86N	18:48	294	19:41
2024	Jul	04	(Thu)	04:46	05:38	66	12:13	86N	18:49	294	19:41
2024	Jul	05	(Fri)	04:46	05:39	66	12:14	86N	18:49	294	19:41
2024	Jul	06	(Sat)	04:47	05:39	66	12:14	86N	18:49	294	19:41
2024	Jul	07	(Sun)	04:47	05:39	66	12:14	86N	18:49	294	19:41
2024	Jul	08	(Mon)	04:47	05:40	66	12:14	86N	18:49	294	19:41
2024	Jul	09	(Tue)	04:48	05:40	66	12:14	86N	18:48	294	19:41
2024	Jul	10	(Wed)	04:48	05:40	66	12:14	86N	18:48	294	19:41
2024	Jul	11	(Thu)	04:48	05:41	66	12:15	87N	18:48	293	19:40
2024	Jul	12	(Fri)	04:49	05:41	67	12:15	87N	18:48	293	19:40
2024	Jul	13	(Sat)	04:49	05:41	67	12:15	87N	18:48	293	19:40
2024	Jul	14	(Sun)	04:50	05:42	67	12:15	87N	18:48	293	19:40
2024	Jul	15	(Mon)	04:50	05:42	67	12:15	87N	18:48	293	19:40
2024	Jul	16	(Tue)	04:51	05:42	67	12:15	87N	18:48	293	19:39
2024	Jul	17	(Wed)	04:51	05:43	67	12:15	87N	18:48	292	19:39
2024	Jul	18	(Thu)	04:51	05:43	68	12:15	88N	18:47	292	19:39
2024	Jul	19	(Fri)	04:52	05:43	68	12:15	88N	18:47	292	19:39
2024	Jul	20	(Sat)	04:52	05:44	68	12:15	88N	18:47	292	19:38
2024	Jul	21	(Sun)	04:53	05:44	68	12:15	88N	18:47	292	19:38
2024	Jul	22	(Mon)	04:53	05:44	68	12:15	88N	18:46	291	19:38

2024	Jul	23	(Tue)	04:54	05:45	69	12:15	89N	18:46	291	19:37
2024	Jul	24	(Wed)	04:54	05:45	69	12:16	89N	18:46	291	19:37
2024	Jul	25	(Thu)	04:54	05:45	69	12:16	89N	18:45	291	19:36
2024	Jul	26	(Fri)	04:55	05:46	69	12:16	89N	18:45	291	19:36
2024	Jul	27	(Sat)	04:55	05:46	70	12:16	90N	18:45	290	19:36
2024	Jul	28	(Sun)	04:56	05:46	70	12:15	90N	18:44	290	19:35
2024	Jul	29	(Mon)	04:56	05:47	70	12:15	90N	18:44	290	19:35
2024	Jul	30	(Tue)	04:56	05:47	70	12:15	90N	18:44	290	19:34
2024	Jul	31	(Wed)	04:57	05:47	71	12:15	90N	18:43	289	19:34
2024	Aug	01	(Thu)	04:57	05:48	71	12:15	91S	18:43	289	19:33
2024	Aug	02	(Fri)	04:58	05:48	71	12:15	90S	18:42	289	19:33
2024	Aug	03	(Sat)	04:58	05:48	71	12:15	90S	18:42	288	19:32
2024	Aug	04	(Sun)	04:58	05:49	72	12:15	90S	18:41	288	19:31
2024	Aug	05	(Mon)	04:59	05:49	72	12:15	90S	18:41	288	19:31
2024	Aug	06	(Tue)	04:59	05:49	72	12:15	89S	18:40	288	19:30
2024	Aug	07	(Wed)	05:00	05:49	73	12:15	89S	18:40	287	19:30
2024	Aug	08	(Thu)	05:00	05:50	73	12:15	89S	18:39	287	19:29
2024	Aug	09	(Fri)	05:00	05:50	73	12:14	89S	18:39	287	19:28
2024	Aug	10	(Sat)	05:01	05:50	73	12:14	88S	18:38	286	19:28
2024	Aug	11	(Sun)	05:01	05:50	74	12:14	88S	18:38	286	19:27
2024	Aug	12	(Mon)	05:01	05:51	74	12:14	88S	18:37	286	19:26
2024	Aug	13	(Tue)	05:02	05:51	74	12:14	87S	18:36	285	19:26
2024	Aug	14	(Wed)	05:02	05:51	75	12:14	87S	18:36	285	19:25
2024	Aug	15	(Thu)	05:02	05:51	75	12:13	87S	18:35	285	19:24
2024	Aug	16	(Fri)	05:03	05:52	75	12:13	86S	18:35	284	19:23
2024	Aug	17	(Sat)	05:03	05:52	76	12:13	86S	18:34	284	19:23
2024	Aug	18	(Sun)	05:03	05:52	76	12:13	86S	18:33	284	19:22
2024	Aug	19	(Mon)	05:04	05:52	76	12:13	85S	18:32	283	19:21
2024	Aug	20	(Tue)	05:04	05:53	77	12:12	85S	18:32	283	19:20
2024	Aug	21	(Wed)	05:04	05:53	77	12:12	85S	18:31	283	19:20
2024	Aug	22	(Thu)	05:04	05:53	77	12:12	84S	18:30	282	19:19
2024	Aug	23	(Fri)	05:05	05:53	78	12:12	84S	18:30	282	19:18
2024	Aug	24	(Sat)	05:05	05:53	78	12:11	84S	18:29	282	19:17
2024	Aug	25	(Sun)	05:05	05:54	79	12:11	83S	18:28	281	19:16
2024	Aug	26	(Mon)	05:06	05:54	79	12:11	83S	18:27	281	19:16
2024	Aug	27	(Tue)	05:06	05:54	79	12:10	83S	18:27	281	19:15
2024	Aug	28	(Wed)	05:06	05:54	80	12:10	82S	18:26	280	19:14
2024	Aug	29	(Thu)	05:06	05:54	80	12:10	82S	18:25	280	19:13
2024	Aug	30	(Fri)	05:07	05:54	80	12:10	82S	18:24	279	19:12
2024	Aug	31	(Sat)	05:07	05:55	81	12:09	81S	18:24	279	19:11
2024	Sep	01	(Sun)	05:07	05:55	81	12:09	81S	18:23	279	19:10
2024	Sep	02	(Mon)	05:07	05:55	82	12:09	81S	18:22	278	19:10
2024	Sep	03	(Tue)	05:07	05:55	82	12:08	80S	18:21	278	19:09
2024	Sep	04	(Wed)	05:08	05:55	82	12:08	80S	18:20	278	19:08
2024	Sep	05	(Thu)	05:08	05:55	83	12:08	79S	18:19	277	19:07
2024	Sep	06	(Fri)	05:08	05:56	83	12:07	79S	18:19	277	19:06
2024	Sep	07	(Sat)	05:08	05:56	83	12:07	79S	18:18	276	19:05
2024	Sep	08	(Sun)	05:08	05:56	84	12:07	78S	18:17	276	19:04
2024	Sep	09	(Mon)	05:09	05:56	84	12:06	78S	18:16	276	19:03
2024	Sep	10	(Tue)	05:09	05:56	85	12:06	78S	18:15	275	19:03
2024	Sep	11	(Wed)	05:09	05:56	85	12:06	77S	18:14	275	19:02
2024	Sep	12	(Thu)	05:09	05:56	85	12:05	77S	18:14	274	19:01
2024	Sep	13	(Fri)	05:09	05:57	86	12:05	76S	18:13	274	19:00
2024	Sep	14	(Sat)	05:10	05:57	86	12:04	76S	18:12	274	18:59
2024	Sep	15	(Sun)	05:10	05:57	87	12:04	76S	18:11	273	18:58
2024	Sep	16	(Mon)	05:10	05:57	87	12:04	75S	18:10	273	18:57
2024	Sep	17	(Tue)	05:10	05:57	87	12:03	75S	18:09	272	18:56
2024	Sep	18	(Wed)	05:10	05:57	88	12:03	74S	18:08	272	18:55
2024	Sep	19	(Thu)	05:10	05:57	88	12:03	74S	18:08	272	18:55
2024	Sep	20	(Fri)	05:11	05:58	89	12:02	74S	18:07	271	18:54
2024	Sep	21	(Sat)	05:11	05:58	89	12:02	73S	18:06	271	18:53
2024	Sep	22	(Sun)	05:11	05:58	89	12:02	73S	18:05	270	18:52
2024	Sep	23	(Mon)	05:11	05:58	90	12:01	73S	18:04	270	18:51
2024	Sep	24	(Tue)	05:11	05:58	90	12:01	72S	18:03	269	18:50
2024	Sep	25	(Wed)	05:11	05:58	91	12:01	72S	18:02	269	18:49
2024	Sep	26	(Thu)	05:12	05:59	91	12:00	71S	18:02	269	18:49
2024	Sep	27	(Fri)	05:12	05:59	92	12:00	71S	18:01	268	18:48
2024	Sep	28	(Sat)	05:12	05:59	92	12:00	71S	18:00	268	18:47
2024	Sep	29	(Sun)	05:12	05:59	92	11:59	70S	17:59	267	18:46
2024	Sep	30	(Mon)	05:12	05:59	93	11:59	70S	17:58	267	18:45
2024	Oct	01	(Tue)	05:12	05:59	93	11:59	69S	17:57	267	18:44
2024	Oct	02	(Wed)	05:13	06:00	94	11:58	69S	17:57	266	18:44

2024	Oct	03	(Thu)	05:13	06:00	94	11:58	69S	17:56	266	18:43
2024	Oct	04	(Fri)	05:13	06:00	94	11:58	68S	17:55	265	18:42
2024	Oct	05	(Sat)	05:13	06:00	95	11:57	68S	17:54	265	18:41
2024	Oct	06	(Sun)	05:13	06:00	95	11:57	68S	17:53	265	18:40
2024	Oct	07	(Mon)	05:13	06:01	96	11:57	67S	17:53	264	18:40
2024	Oct	08	(Tue)	05:14	06:01	96	11:56	67S	17:52	264	18:39
2024	Oct	09	(Wed)	05:14	06:01	96	11:56	66S	17:51	263	18:38
2024	Oct	10	(Thu)	05:14	06:01	97	11:56	66S	17:50	263	18:37
2024	Oct	11	(Fri)	05:14	06:01	97	11:56	66S	17:50	263	18:37
2024	Oct	12	(Sat)	05:14	06:02	98	11:55	65S	17:49	262	18:36
2024	Oct	13	(Sun)	05:15	06:02	98	11:55	65S	17:48	262	18:35
2024	Oct	14	(Mon)	05:15	06:02	98	11:55	64S	17:47	261	18:35
2024	Oct	15	(Tue)	05:15	06:02	99	11:55	64S	17:47	261	18:34
2024	Oct	16	(Wed)	05:15	06:03	99	11:54	64S	17:46	261	18:33
2024	Oct	17	(Thu)	05:16	06:03	100	11:54	63S	17:45	260	18:33
2024	Oct	18	(Fri)	05:16	06:03	100	11:54	63S	17:45	260	18:32
2024	Oct	19	(Sat)	05:16	06:04	100	11:54	63S	17:44	260	18:31
2024	Oct	20	(Sun)	05:16	06:04	101	11:54	62S	17:43	259	18:31
2024	Oct	21	(Mon)	05:17	06:04	101	11:54	62S	17:43	259	18:30
2024	Oct	22	(Tue)	05:17	06:04	101	11:53	62S	17:42	258	18:30
2024	Oct	23	(Wed)	05:17	06:05	102	11:53	61S	17:42	258	18:29
2024	Oct	24	(Thu)	05:17	06:05	102	11:53	61S	17:41	258	18:29
2024	Oct	25	(Fri)	05:18	06:05	103	11:53	61S	17:40	257	18:28
2024	Oct	26	(Sat)	05:18	06:06	103	11:53	60S	17:40	257	18:28
2024	Oct	27	(Sun)	05:18	06:06	103	11:53	60S	17:39	257	18:27
2024	Oct	28	(Mon)	05:19	06:06	104	11:53	60S	17:39	256	18:27
2024	Oct	29	(Tue)	05:19	06:07	104	11:53	59S	17:38	256	18:26
2024	Oct	30	(Wed)	05:19	06:07	104	11:53	59S	17:38	256	18:26
2024	Oct	31	(Thu)	05:19	06:08	105	11:53	59S	17:37	255	18:25
2024	Nov	01	(Fri)	05:20	06:08	105	11:53	58S	17:37	255	18:25
2024	Nov	02	(Sat)	05:20	06:08	105	11:53	58S	17:36	255	18:25
2024	Nov	03	(Sun)	05:21	06:09	106	11:53	58S	17:36	254	18:24
2024	Nov	04	(Mon)	05:21	06:09	106	11:53	57S	17:36	254	18:24
2024	Nov	05	(Tue)	05:21	06:10	106	11:53	57S	17:35	254	18:24
2024	Nov	06	(Wed)	05:22	06:10	107	11:53	57S	17:35	253	18:23
2024	Nov	07	(Thu)	05:22	06:11	107	11:53	56S	17:34	253	18:23
2024	Nov	08	(Fri)	05:22	06:11	107	11:53	56S	17:34	253	18:23
2024	Nov	09	(Sat)	05:23	06:12	108	11:53	56S	17:34	252	18:23
2024	Nov	10	(Sun)	05:23	06:12	108	11:53	56S	17:33	252	18:22
2024	Nov	11	(Mon)	05:24	06:13	108	11:53	55S	17:33	252	18:22
2024	Nov	12	(Tue)	05:24	06:13	108	11:53	55S	17:33	251	18:22
2024	Nov	13	(Wed)	05:25	06:14	109	11:53	55S	17:33	251	18:22
2024	Nov	14	(Thu)	05:25	06:14	109	11:53	54S	17:32	251	18:22
2024	Nov	15	(Fri)	05:25	06:15	109	11:54	54S	17:32	251	18:22
2024	Nov	16	(Sat)	05:26	06:15	110	11:54	54S	17:32	250	18:21
2024	Nov	17	(Sun)	05:26	06:16	110	11:54	54S	17:32	250	18:21
2024	Nov	18	(Mon)	05:27	06:16	110	11:54	53S	17:32	250	18:21
2024	Nov	19	(Tue)	05:27	06:17	110	11:54	53S	17:32	250	18:21
2024	Nov	20	(Wed)	05:28	06:17	111	11:55	53S	17:32	249	18:21
2024	Nov	21	(Thu)	05:28	06:18	111	11:55	53S	17:32	249	18:21
2024	Nov	22	(Fri)	05:29	06:19	111	11:55	53S	17:32	249	18:21
2024	Nov	23	(Sat)	05:29	06:19	111	11:55	52S	17:32	249	18:21
2024	Nov	24	(Sun)	05:30	06:20	111	11:56	52S	17:32	248	18:21
2024	Nov	25	(Mon)	05:30	06:20	112	11:56	52S	17:32	248	18:21
2024	Nov	26	(Tue)	05:31	06:21	112	11:56	52S	17:32	248	18:22
2024	Nov	27	(Wed)	05:31	06:21	112	11:57	52S	17:32	248	18:22
2024	Nov	28	(Thu)	05:32	06:22	112	11:57	51S	17:32	248	18:22
2024	Nov	29	(Fri)	05:33	06:23	112	11:57	51S	17:32	248	18:22
2024	Nov	30	(Sat)	05:33	06:23	113	11:58	51S	17:32	247	18:22
2024	Dec	01	(Sun)	05:34	06:24	113	11:58	51S	17:32	247	18:22
2024	Dec	02	(Mon)	05:34	06:24	113	11:58	51S	17:32	247	18:23
2024	Dec	03	(Tue)	05:35	06:25	113	11:59	51S	17:32	247	18:23
2024	Dec	04	(Wed)	05:35	06:26	113	11:59	51S	17:33	247	18:23
2024	Dec	05	(Thu)	05:36	06:26	113	12:00	50S	17:33	247	18:23
2024	Dec	06	(Fri)	05:36	06:27	113	12:00	50S	17:33	247	18:24
2024	Dec	07	(Sat)	05:37	06:27	114	12:00	50S	17:33	246	18:24
2024	Dec	08	(Sun)	05:37	06:28	114	12:01	50S	17:34	246	18:24
2024	Dec	09	(Mon)	05:38	06:29	114	12:01	50S	17:34	246	18:25
2024	Dec	10	(Tue)	05:39	06:29	114	12:02	50S	17:34	246	18:25
2024	Dec	11	(Wed)	05:39	06:30	114	12:02	50S	17:35	246	18:25
2024	Dec	12	(Thu)	05:40	06:30	114	12:03	50S	17:35	246	18:26
2024	Dec	13	(Fri)	05:40	06:31	114	12:03	50S	17:35	246	18:26

2024	Dec	14	(Sat)	05:41	06:32	114	12:04	50S	17:36	246	18:27
2024	Dec	15	(Sun)	05:41	06:32	114	12:04	50S	17:36	246	18:27
2024	Dec	16	(Mon)	05:42	06:33	114	12:05	49S	17:37	246	18:27
2024	Dec	17	(Tue)	05:42	06:33	114	12:05	49S	17:37	246	18:28
2024	Dec	18	(Wed)	05:43	06:34	114	12:06	49S	17:37	246	18:28
2024	Dec	19	(Thu)	05:43	06:34	114	12:06	49S	17:38	246	18:29
2024	Dec	20	(Fri)	05:44	06:35	114	12:07	49S	17:38	246	18:29
2024	Dec	21	(Sat)	05:44	06:35	114	12:07	49S	17:39	246	18:30
2024	Dec	22	(Sun)	05:45	06:36	114	12:08	49S	17:39	246	18:30
2024	Dec	23	(Mon)	05:45	06:36	114	12:08	49S	17:40	246	18:31
2024	Dec	24	(Tue)	05:46	06:37	114	12:09	49S	17:40	246	18:31
2024	Dec	25	(Wed)	05:46	06:37	114	12:09	49S	17:41	246	18:32
2024	Dec	26	(Thu)	05:47	06:38	114	12:10	49S	17:42	246	18:32
2024	Dec	27	(Fri)	05:47	06:38	114	12:10	50S	17:42	246	18:33
2024	Dec	28	(Sat)	05:48	06:39	114	12:11	50S	17:43	246	18:33
2024	Dec	29	(Sun)	05:48	06:39	114	12:11	50S	17:43	246	18:34
2024	Dec	30	(Mon)	05:49	06:39	114	12:12	50S	17:44	246	18:35
2024	Dec	31	(Tue)	05:49	06:40	114	12:12	50S	17:44	246	18:35

Sun

Nong Khai

Location: E102°45'39.5", N17°53'24.0", 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)	06:16	06:40	114	12:12	50S	17:45	246	18:08
2024	Jan	02	(Tue)	06:17	06:40	114	12:13	50S	17:45	246	18:09
2024	Jan	03	(Wed)	06:17	06:40	114	12:13	50S	17:46	246	18:09
2024	Jan	04	(Thu)	06:17	06:41	114	12:14	50S	17:46	246	18:10
2024	Jan	05	(Fri)	06:18	06:41	114	12:14	50S	17:47	246	18:11
2024	Jan	06	(Sat)	06:18	06:41	114	12:14	50S	17:48	247	18:11
2024	Jan	07	(Sun)	06:18	06:42	113	12:15	50S	17:48	247	18:12
2024	Jan	08	(Mon)	06:18	06:42	113	12:15	51S	17:49	247	18:12
2024	Jan	09	(Tue)	06:19	06:42	113	12:16	51S	17:49	247	18:13
2024	Jan	10	(Wed)	06:19	06:42	113	12:16	51S	17:50	247	18:14
2024	Jan	11	(Thu)	06:19	06:43	113	12:17	51S	17:51	247	18:14
2024	Jan	12	(Fri)	06:19	06:43	113	12:17	51S	17:51	247	18:15
2024	Jan	13	(Sat)	06:19	06:43	112	12:17	51S	17:52	248	18:15
2024	Jan	14	(Sun)	06:20	06:43	112	12:18	51S	17:53	248	18:16
2024	Jan	15	(Mon)	06:20	06:43	112	12:18	52S	17:53	248	18:17
2024	Jan	16	(Tue)	06:20	06:43	112	12:18	52S	17:54	248	18:17
2024	Jan	17	(Wed)	06:20	06:43	112	12:19	52S	17:54	248	18:18
2024	Jan	18	(Thu)	06:20	06:43	112	12:19	52S	17:55	249	18:18
2024	Jan	19	(Fri)	06:20	06:43	111	12:19	52S	17:56	249	18:19
2024	Jan	20	(Sat)	06:20	06:43	111	12:20	53S	17:56	249	18:19
2024	Jan	21	(Sun)	06:20	06:43	111	12:20	53S	17:57	249	18:20
2024	Jan	22	(Mon)	06:20	06:43	111	12:20	53S	17:58	250	18:21
2024	Jan	23	(Tue)	06:20	06:43	110	12:21	53S	17:58	250	18:21
2024	Jan	24	(Wed)	06:20	06:43	110	12:21	53S	17:59	250	18:22
2024	Jan	25	(Thu)	06:20	06:43	110	12:21	54S	17:59	250	18:22
2024	Jan	26	(Fri)	06:20	06:43	110	12:21	54S	18:00	251	18:23
2024	Jan	27	(Sat)	06:20	06:43	109	12:22	54S	18:00	251	18:23
2024	Jan	28	(Sun)	06:20	06:43	109	12:22	54S	18:01	251	18:24
2024	Jan	29	(Mon)	06:20	06:42	109	12:22	55S	18:02	251	18:24
2024	Jan	30	(Tue)	06:19	06:42	109	12:22	55S	18:02	252	18:25
2024	Jan	31	(Wed)	06:19	06:42	108	12:22	55S	18:03	252	18:25
2024	Feb	01	(Thu)	06:19	06:42	108	12:22	56S	18:03	252	18:26
2024	Feb	02	(Fri)	06:19	06:42	108	12:23	56S	18:04	253	18:26
2024	Feb	03	(Sat)	06:19	06:41	107	12:23	56S	18:04	253	18:27
2024	Feb	04	(Sun)	06:18	06:41	107	12:23	56S	18:05	253	18:27
2024	Feb	05	(Mon)	06:18	06:41	107	12:23	57S	18:05	253	18:28
2024	Feb	06	(Tue)	06:18	06:40	106	12:23	57S	18:06	254	18:28
2024	Feb	07	(Wed)	06:17	06:40	106	12:23	57S	18:06	254	18:29
2024	Feb	08	(Thu)	06:17	06:40	106	12:23	58S	18:07	254	18:29
2024	Feb	09	(Fri)	06:17	06:39	105	12:23	58S	18:07	255	18:30
2024	Feb	10	(Sat)	06:16	06:39	105	12:23	58S	18:08	255	18:30

2024	Feb	11	(Sun)	06:16	06:38	105	12:23	59S	18:08	255	18:31
2024	Feb	12	(Mon)	06:16	06:38	104	12:23	59S	18:09	256	18:31
2024	Feb	13	(Tue)	06:15	06:37	104	12:23	59S	18:09	256	18:31
2024	Feb	14	(Wed)	06:15	06:37	104	12:23	60S	18:09	256	18:32
2024	Feb	15	(Thu)	06:14	06:37	103	12:23	60S	18:10	257	18:32
2024	Feb	16	(Fri)	06:14	06:36	103	12:23	60S	18:10	257	18:33
2024	Feb	17	(Sat)	06:13	06:35	103	12:23	61S	18:11	258	18:33
2024	Feb	18	(Sun)	06:13	06:35	102	12:23	61S	18:11	258	18:33
2024	Feb	19	(Mon)	06:12	06:34	102	12:23	61S	18:11	258	18:34
2024	Feb	20	(Tue)	06:12	06:34	101	12:23	62S	18:12	259	18:34
2024	Feb	21	(Wed)	06:11	06:33	101	12:23	62S	18:12	259	18:34
2024	Feb	22	(Thu)	06:11	06:33	101	12:23	62S	18:13	259	18:35
2024	Feb	23	(Fri)	06:10	06:32	100	12:22	63S	18:13	260	18:35
2024	Feb	24	(Sat)	06:09	06:31	100	12:22	63S	18:13	260	18:35
2024	Feb	25	(Sun)	06:09	06:31	100	12:22	64S	18:14	261	18:36
2024	Feb	26	(Mon)	06:08	06:30	99	12:22	64S	18:14	261	18:36
2024	Feb	27	(Tue)	06:08	06:29	99	12:22	64S	18:14	261	18:36
2024	Feb	28	(Wed)	06:07	06:29	98	12:22	65S	18:15	262	18:37
2024	Feb	29	(Thu)	06:06	06:28	98	12:21	65S	18:15	262	18:37
2024	Mar	01	(Fri)	06:06	06:27	98	12:21	65S	18:15	263	18:37
2024	Mar	02	(Sat)	06:05	06:27	97	12:21	66S	18:16	263	18:37
2024	Mar	03	(Sun)	06:04	06:26	97	12:21	66S	18:16	263	18:38
2024	Mar	04	(Mon)	06:04	06:25	96	12:21	67S	18:16	264	18:38
2024	Mar	05	(Tue)	06:03	06:25	96	12:20	67S	18:16	264	18:38
2024	Mar	06	(Wed)	06:02	06:24	96	12:20	67S	18:17	265	18:38
2024	Mar	07	(Thu)	06:01	06:23	95	12:20	68S	18:17	265	18:39
2024	Mar	08	(Fri)	06:01	06:22	95	12:20	68S	18:17	265	18:39
2024	Mar	09	(Sat)	06:00	06:22	94	12:19	69S	18:17	266	18:39
2024	Mar	10	(Sun)	05:59	06:21	94	12:19	69S	18:18	266	18:39
2024	Mar	11	(Mon)	05:58	06:20	94	12:19	69S	18:18	267	18:40
2024	Mar	12	(Tue)	05:58	06:19	93	12:19	70S	18:18	267	18:40
2024	Mar	13	(Wed)	05:57	06:19	93	12:18	70S	18:18	268	18:40
2024	Mar	14	(Thu)	05:56	06:18	92	12:18	70S	18:19	268	18:40
2024	Mar	15	(Fri)	05:55	06:17	92	12:18	71S	18:19	268	18:41
2024	Mar	16	(Sat)	05:55	06:16	91	12:18	71S	18:19	269	18:41
2024	Mar	17	(Sun)	05:54	06:15	91	12:17	72S	18:19	269	18:41
2024	Mar	18	(Mon)	05:53	06:15	91	12:17	72S	18:20	270	18:41
2024	Mar	19	(Tue)	05:52	06:14	90	12:17	72S	18:20	270	18:41
2024	Mar	20	(Wed)	05:51	06:13	90	12:16	73S	18:20	270	18:42
2024	Mar	21	(Thu)	05:51	06:12	89	12:16	73S	18:20	271	18:42
2024	Mar	22	(Fri)	05:50	06:11	89	12:16	74S	18:20	271	18:42
2024	Mar	23	(Sat)	05:49	06:11	89	12:15	74S	18:21	272	18:42
2024	Mar	24	(Sun)	05:48	06:10	88	12:15	74S	18:21	272	18:43
2024	Mar	25	(Mon)	05:47	06:09	88	12:15	75S	18:21	272	18:43
2024	Mar	26	(Tue)	05:46	06:08	87	12:15	75S	18:21	273	18:43
2024	Mar	27	(Wed)	05:46	06:07	87	12:14	76S	18:21	273	18:43
2024	Mar	28	(Thu)	05:45	06:07	86	12:14	76S	18:22	274	18:43
2024	Mar	29	(Fri)	05:44	06:06	86	12:14	76S	18:22	274	18:44
2024	Mar	30	(Sat)	05:43	06:05	86	12:13	77S	18:22	275	18:44
2024	Mar	31	(Sun)	05:42	06:04	85	12:13	77S	18:22	275	18:44
2024	Apr	01	(Mon)	05:42	06:03	85	12:13	78S	18:22	275	18:44
2024	Apr	02	(Tue)	05:41	06:03	84	12:12	78S	18:23	276	18:45
2024	Apr	03	(Wed)	05:40	06:02	84	12:12	78S	18:23	276	18:45
2024	Apr	04	(Thu)	05:39	06:01	84	12:12	79S	18:23	277	18:45
2024	Apr	05	(Fri)	05:38	06:00	83	12:12	79S	18:23	277	18:45
2024	Apr	06	(Sat)	05:37	05:59	83	12:11	79S	18:23	277	18:45
2024	Apr	07	(Sun)	05:37	05:59	82	12:11	80S	18:24	278	18:46
2024	Apr	08	(Mon)	05:36	05:58	82	12:11	80S	18:24	278	18:46
2024	Apr	09	(Tue)	05:35	05:57	82	12:10	81S	18:24	279	18:46
2024	Apr	10	(Wed)	05:34	05:56	81	12:10	81S	18:24	279	18:46
2024	Apr	11	(Thu)	05:34	05:56	81	12:10	81S	18:25	279	18:47
2024	Apr	12	(Fri)	05:33	05:55	81	12:10	82S	18:25	280	18:47
2024	Apr	13	(Sat)	05:32	05:54	80	12:09	82S	18:25	280	18:47
2024	Apr	14	(Sun)	05:31	05:53	80	12:09	82S	18:25	280	18:47
2024	Apr	15	(Mon)	05:30	05:53	79	12:09	83S	18:26	281	18:48
2024	Apr	16	(Tue)	05:30	05:52	79	12:09	83S	18:26	281	18:48
2024	Apr	17	(Wed)	05:29	05:51	79	12:08	83S	18:26	282	18:48
2024	Apr	18	(Thu)	05:28	05:50	78	12:08	84S	18:26	282	18:49
2024	Apr	19	(Fri)	05:28	05:50	78	12:08	84S	18:27	282	18:49
2024	Apr	20	(Sat)	05:27	05:49	78	12:08	85S	18:27	283	18:49
2024	Apr	21	(Sun)	05:26	05:48	77	12:08	85S	18:27	283	18:49
2024	Apr	22	(Mon)	05:25	05:48	77	12:07	85S	18:27	283	18:50

2024	Apr	23	(Tue)	05:25	05:47	76	12:07	86S	18:28	284	18:50
2024	Apr	24	(Wed)	05:24	05:47	76	12:07	86S	18:28	284	18:50
2024	Apr	25	(Thu)	05:23	05:46	76	12:07	86S	18:28	284	18:51
2024	Apr	26	(Fri)	05:23	05:45	75	12:07	86S	18:28	285	18:51
2024	Apr	27	(Sat)	05:22	05:45	75	12:07	87S	18:29	285	18:51
2024	Apr	28	(Sun)	05:21	05:44	75	12:06	87S	18:29	285	18:52
2024	Apr	29	(Mon)	05:21	05:44	74	12:06	87S	18:29	286	18:52
2024	Apr	30	(Tue)	05:20	05:43	74	12:06	88S	18:30	286	18:52
2024	May	01	(Wed)	05:20	05:42	74	12:06	88S	18:30	286	18:53
2024	May	02	(Thu)	05:19	05:42	73	12:06	88S	18:30	287	18:53
2024	May	03	(Fri)	05:19	05:41	73	12:06	89S	18:31	287	18:53
2024	May	04	(Sat)	05:18	05:41	73	12:06	89S	18:31	287	18:54
2024	May	05	(Sun)	05:17	05:40	73	12:06	89S	18:31	288	18:54
2024	May	06	(Mon)	05:17	05:40	72	12:06	89S	18:31	288	18:54
2024	May	07	(Tue)	05:16	05:39	72	12:05	90S	18:32	288	18:55
2024	May	08	(Wed)	05:16	05:39	72	12:05	90S	18:32	288	18:55
2024	May	09	(Thu)	05:15	05:38	71	12:05	90S	18:33	289	18:56
2024	May	10	(Fri)	05:15	05:38	71	12:05	91S	18:33	289	18:56
2024	May	11	(Sat)	05:15	05:38	71	12:05	91N	18:33	289	18:56
2024	May	12	(Sun)	05:14	05:37	71	12:05	90N	18:34	290	18:57
2024	May	13	(Mon)	05:14	05:37	70	12:05	90N	18:34	290	18:57
2024	May	14	(Tue)	05:13	05:37	70	12:05	90N	18:34	290	18:58
2024	May	15	(Wed)	05:13	05:36	70	12:05	90N	18:35	290	18:58
2024	May	16	(Thu)	05:13	05:36	70	12:05	89N	18:35	291	18:58
2024	May	17	(Fri)	05:12	05:36	69	12:05	89N	18:35	291	18:59
2024	May	18	(Sat)	05:12	05:35	69	12:05	89N	18:36	291	18:59
2024	May	19	(Sun)	05:12	05:35	69	12:05	89N	18:36	291	19:00
2024	May	20	(Mon)	05:11	05:35	69	12:06	89N	18:36	291	19:00
2024	May	21	(Tue)	05:11	05:35	68	12:06	88N	18:37	292	19:00
2024	May	22	(Wed)	05:11	05:34	68	12:06	88N	18:37	292	19:01
2024	May	23	(Thu)	05:10	05:34	68	12:06	88N	18:38	292	19:01
2024	May	24	(Fri)	05:10	05:34	68	12:06	88N	18:38	292	19:02
2024	May	25	(Sat)	05:10	05:34	68	12:06	88N	18:38	293	19:02
2024	May	26	(Sun)	05:10	05:34	67	12:06	87N	18:39	293	19:02
2024	May	27	(Mon)	05:10	05:33	67	12:06	87N	18:39	293	19:03
2024	May	28	(Tue)	05:09	05:33	67	12:06	87N	18:39	293	19:03
2024	May	29	(Wed)	05:09	05:33	67	12:06	87N	18:40	293	19:04
2024	May	30	(Thu)	05:09	05:33	67	12:07	87N	18:40	293	19:04
2024	May	31	(Fri)	05:09	05:33	67	12:07	87N	18:41	293	19:04
2024	Jun	01	(Sat)	05:09	05:33	66	12:07	86N	18:41	294	19:05
2024	Jun	02	(Sun)	05:09	05:33	66	12:07	86N	18:41	294	19:05
2024	Jun	03	(Mon)	05:09	05:33	66	12:07	86N	18:42	294	19:06
2024	Jun	04	(Tue)	05:09	05:33	66	12:07	86N	18:42	294	19:06
2024	Jun	05	(Wed)	05:09	05:33	66	12:08	86N	18:42	294	19:06
2024	Jun	06	(Thu)	05:09	05:33	66	12:08	86N	18:43	294	19:07
2024	Jun	07	(Fri)	05:09	05:33	66	12:08	86N	18:43	294	19:07
2024	Jun	08	(Sat)	05:09	05:33	66	12:08	86N	18:43	294	19:07
2024	Jun	09	(Sun)	05:09	05:33	66	12:08	86N	18:44	295	19:08
2024	Jun	10	(Mon)	05:09	05:33	65	12:08	86N	18:44	295	19:08
2024	Jun	11	(Tue)	05:09	05:33	65	12:09	85N	18:44	295	19:08
2024	Jun	12	(Wed)	05:09	05:33	65	12:09	85N	18:45	295	19:09
2024	Jun	13	(Thu)	05:09	05:33	65	12:09	85N	18:45	295	19:09
2024	Jun	14	(Fri)	05:09	05:34	65	12:09	85N	18:45	295	19:09
2024	Jun	15	(Sat)	05:09	05:34	65	12:10	85N	18:45	295	19:10
2024	Jun	16	(Sun)	05:10	05:34	65	12:10	85N	18:46	295	19:10
2024	Jun	17	(Mon)	05:10	05:34	65	12:10	85N	18:46	295	19:10
2024	Jun	18	(Tue)	05:10	05:34	65	12:10	85N	18:46	295	19:10
2024	Jun	19	(Wed)	05:10	05:34	65	12:10	85N	18:46	295	19:11
2024	Jun	20	(Thu)	05:10	05:35	65	12:11	85N	18:47	295	19:11
2024	Jun	21	(Fri)	05:11	05:35	65	12:11	85N	18:47	295	19:11
2024	Jun	22	(Sat)	05:11	05:35	65	12:11	85N	18:47	295	19:11
2024	Jun	23	(Sun)	05:11	05:35	65	12:11	85N	18:47	295	19:11
2024	Jun	24	(Mon)	05:11	05:35	65	12:11	85N	18:47	295	19:12
2024	Jun	25	(Tue)	05:12	05:36	65	12:12	85N	18:48	295	19:12
2024	Jun	26	(Wed)	05:12	05:36	65	12:12	85N	18:48	295	19:12
2024	Jun	27	(Thu)	05:12	05:36	65	12:12	85N	18:48	295	19:12
2024	Jun	28	(Fri)	05:12	05:37	65	12:12	85N	18:48	295	19:12
2024	Jun	29	(Sat)	05:13	05:37	65	12:13	85N	18:48	295	19:12
2024	Jun	30	(Sun)	05:13	05:37	65	12:13	85N	18:48	295	19:12
2024	Jul	01	(Mon)	05:13	05:37	65	12:13	86N	18:48	295	19:12
2024	Jul	02	(Tue)	05:14	05:38	65	12:13	86N	18:48	295	19:12
2024	Jul	03	(Wed)	05:14	05:38	66	12:13	86N	18:48	294	19:13

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

2024	Sep	14	(Sat)	05:35	05:57	86	12:04	76S	18:12	274	18:34
2024	Sep	15	(Sun)	05:35	05:57	87	12:04	76S	18:11	273	18:33
2024	Sep	16	(Mon)	05:35	05:57	87	12:04	75S	18:10	273	18:32
2024	Sep	17	(Tue)	05:35	05:57	87	12:03	75S	18:09	272	18:31
2024	Sep	18	(Wed)	05:36	05:57	88	12:03	74S	18:08	272	18:30
2024	Sep	19	(Thu)	05:36	05:57	88	12:03	74S	18:08	272	18:29
2024	Sep	20	(Fri)	05:36	05:58	89	12:02	74S	18:07	271	18:28
2024	Sep	21	(Sat)	05:36	05:58	89	12:02	73S	18:06	271	18:28
2024	Sep	22	(Sun)	05:36	05:58	89	12:02	73S	18:05	270	18:27
2024	Sep	23	(Mon)	05:36	05:58	90	12:01	73S	18:04	270	18:26
2024	Sep	24	(Tue)	05:36	05:58	90	12:01	72S	18:03	269	18:25
2024	Sep	25	(Wed)	05:37	05:58	91	12:01	72S	18:02	269	18:24
2024	Sep	26	(Thu)	05:37	05:59	91	12:00	71S	18:02	269	18:23
2024	Sep	27	(Fri)	05:37	05:59	92	12:00	71S	18:01	268	18:22
2024	Sep	28	(Sat)	05:37	05:59	92	12:00	71S	18:00	268	18:22
2024	Sep	29	(Sun)	05:37	05:59	92	11:59	70S	17:59	267	18:21
2024	Sep	30	(Mon)	05:37	05:59	93	11:59	70S	17:58	267	18:20
2024	Oct	01	(Tue)	05:38	05:59	93	11:59	69S	17:57	267	18:19
2024	Oct	02	(Wed)	05:38	06:00	94	11:58	69S	17:57	266	18:18
2024	Oct	03	(Thu)	05:38	06:00	94	11:58	69S	17:56	266	18:18
2024	Oct	04	(Fri)	05:38	06:00	94	11:58	68S	17:55	265	18:17
2024	Oct	05	(Sat)	05:38	06:00	95	11:57	68S	17:54	265	18:16
2024	Oct	06	(Sun)	05:39	06:00	95	11:57	68S	17:53	265	18:15
2024	Oct	07	(Mon)	05:39	06:01	96	11:57	67S	17:53	264	18:14
2024	Oct	08	(Tue)	05:39	06:01	96	11:56	67S	17:52	264	18:14
2024	Oct	09	(Wed)	05:39	06:01	96	11:56	66S	17:51	263	18:13
2024	Oct	10	(Thu)	05:39	06:01	97	11:56	66S	17:50	263	18:12
2024	Oct	11	(Fri)	05:40	06:01	97	11:56	66S	17:50	263	18:11
2024	Oct	12	(Sat)	05:40	06:02	98	11:55	65S	17:49	262	18:11
2024	Oct	13	(Sun)	05:40	06:02	98	11:55	65S	17:48	262	18:10
2024	Oct	14	(Mon)	05:40	06:02	98	11:55	64S	17:47	261	18:09
2024	Oct	15	(Tue)	05:40	06:02	99	11:55	64S	17:47	261	18:09
2024	Oct	16	(Wed)	05:41	06:03	99	11:54	64S	17:46	261	18:08
2024	Oct	17	(Thu)	05:41	06:03	100	11:54	63S	17:45	260	18:07
2024	Oct	18	(Fri)	05:41	06:03	100	11:54	63S	17:45	260	18:07
2024	Oct	19	(Sat)	05:41	06:04	100	11:54	63S	17:44	260	18:06
2024	Oct	20	(Sun)	05:42	06:04	101	11:54	62S	17:43	259	18:05
2024	Oct	21	(Mon)	05:42	06:04	101	11:54	62S	17:43	259	18:05
2024	Oct	22	(Tue)	05:42	06:04	101	11:53	62S	17:42	258	18:04
2024	Oct	23	(Wed)	05:43	06:05	102	11:53	61S	17:42	258	18:04
2024	Oct	24	(Thu)	05:43	06:05	102	11:53	61S	17:41	258	18:03
2024	Oct	25	(Fri)	05:43	06:05	103	11:53	61S	17:40	257	18:03
2024	Oct	26	(Sat)	05:44	06:06	103	11:53	60S	17:40	257	18:02
2024	Oct	27	(Sun)	05:44	06:06	103	11:53	60S	17:39	257	18:01
2024	Oct	28	(Mon)	05:44	06:06	104	11:53	60S	17:39	256	18:01
2024	Oct	29	(Tue)	05:45	06:07	104	11:53	59S	17:38	256	18:01
2024	Oct	30	(Wed)	05:45	06:07	104	11:53	59S	17:38	256	18:00
2024	Oct	31	(Thu)	05:45	06:08	105	11:53	59S	17:37	255	18:00
2024	Nov	01	(Fri)	05:46	06:08	105	11:53	58S	17:37	255	17:59
2024	Nov	02	(Sat)	05:46	06:08	105	11:53	58S	17:36	255	17:59
2024	Nov	03	(Sun)	05:46	06:09	106	11:53	58S	17:36	254	17:58
2024	Nov	04	(Mon)	05:47	06:09	106	11:53	57S	17:36	254	17:58
2024	Nov	05	(Tue)	05:47	06:10	106	11:53	57S	17:35	254	17:58
2024	Nov	06	(Wed)	05:48	06:10	107	11:53	57S	17:35	253	17:57
2024	Nov	07	(Thu)	05:48	06:11	107	11:53	56S	17:34	253	17:57
2024	Nov	08	(Fri)	05:49	06:11	107	11:53	56S	17:34	253	17:57
2024	Nov	09	(Sat)	05:49	06:12	108	11:53	56S	17:34	252	17:56
2024	Nov	10	(Sun)	05:49	06:12	108	11:53	56S	17:33	252	17:56
2024	Nov	11	(Mon)	05:50	06:13	108	11:53	55S	17:33	252	17:56
2024	Nov	12	(Tue)	05:50	06:13	108	11:53	55S	17:33	251	17:56
2024	Nov	13	(Wed)	05:51	06:14	109	11:53	55S	17:33	251	17:56
2024	Nov	14	(Thu)	05:51	06:14	109	11:53	54S	17:32	251	17:55
2024	Nov	15	(Fri)	05:52	06:15	109	11:54	54S	17:32	251	17:55
2024	Nov	16	(Sat)	05:52	06:15	110	11:54	54S	17:32	250	17:55
2024	Nov	17	(Sun)	05:53	06:16	110	11:54	54S	17:32	250	17:55
2024	Nov	18	(Mon)	05:53	06:16	110	11:54	53S	17:32	250	17:55
2024	Nov	19	(Tue)	05:54	06:17	110	11:54	53S	17:32	250	17:55
2024	Nov	20	(Wed)	05:54	06:17	111	11:55	53S	17:32	249	17:55
2024	Nov	21	(Thu)	05:55	06:18	111	11:55	53S	17:32	249	17:55
2024	Nov	22	(Fri)	05:55	06:19	111	11:55	53S	17:32	249	17:55
2024	Nov	23	(Sat)	05:56	06:19	111	11:55	52S	17:32	249	17:55
2024	Nov	24	(Sun)	05:57	06:20	111	11:56	52S	17:32	248	17:55

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

Moon

Nong Khai

Location: E102°45'39.5", N17°53'24.0", 0m
(Longitude referred to Greenwich meridian)

Time Zone: 7h 00m east of Greenwich

Date (Zone)	Rise Az.			Transit Alt.			Set Az.		
	h	m	°	h	m	°	h	m	°
2024 Jan 01 (Mon)	22:18	80		04:00	86S		10:26	282	
2024 Jan 02 (Tue)	23:05	86		04:40	81S		10:58	277	
2024 Jan 03 (Wed)	23:52	92		05:19	75S		11:30	271	
2024 Jan 04 (Thu)				05:58	69S		12:01	265	
2024 Jan 05 (Fri)	00:40	98		06:39	63S		12:35	259	
2024 Jan 06 (Sat)	01:29	104		07:22	58S		13:11	253	
2024 Jan 07 (Sun)	02:23	110		08:08	52S		13:51	248	
2024 Jan 08 (Mon)	03:20	114		09:00	48S		14:38	244	
2024 Jan 09 (Tue)	04:21	118		09:57	45S		15:31	241	
2024 Jan 10 (Wed)	05:25	120		10:59	44S		16:32	240	
2024 Jan 11 (Thu)	06:28	119		12:03	45S		17:38	242	
2024 Jan 12 (Fri)	07:27	117		13:05	48S		18:46	245	
2024 Jan 13 (Sat)	08:21	112		14:05	52S		19:52	250	
2024 Jan 14 (Sun)	09:09	106		15:00	58S		20:56	257	
2024 Jan 15 (Mon)	09:52	99		15:52	65S		21:56	264	
2024 Jan 16 (Tue)	10:32	92		16:41	72S		22:54	272	
2024 Jan 17 (Wed)	11:10	85		17:28	79S		23:51	279	
2024 Jan 18 (Thu)	11:49	78		18:16	86S				
2024 Jan 19 (Fri)	12:30	72		19:06	90N		00:48	285	
2024 Jan 20 (Sat)	13:14	67		19:57	85N		01:46	291	
2024 Jan 21 (Sun)	14:01	63		20:51	82N		02:45	295	
2024 Jan 22 (Mon)	14:52	61		21:46	80N		03:43	298	
2024 Jan 23 (Tue)	15:47	60		22:41	80N		04:41	300	

2024	Jan	24	(Wed)	16:43	61	23:35	82N	05:35	299
2024	Jan	25	(Thu)	17:38	64			06:25	297
2024	Jan	26	(Fri)	18:32	68	00:25	85N	07:09	294
2024	Jan	27	(Sat)	19:23	73	01:12	89N	07:49	290
2024	Jan	28	(Sun)	20:12	78	01:56	88S	08:25	284
2024	Jan	29	(Mon)	21:00	84	02:37	82S	08:58	279
2024	Jan	30	(Tue)	21:46	90	03:17	77S	09:30	273
2024	Jan	31	(Wed)	22:33	96	03:55	71S	10:01	267
2024	Feb	01	(Thu)	23:21	102	04:35	65S	10:33	261
2024	Feb	02	(Fri)			05:16	60S	11:07	255
2024	Feb	03	(Sat)	00:12	108	06:00	54S	11:44	250
2024	Feb	04	(Sun)	01:06	113	06:48	50S	12:27	245
2024	Feb	05	(Mon)	02:04	117	07:41	46S	13:16	242
2024	Feb	06	(Tue)	03:05	119	08:39	44S	14:12	240
2024	Feb	07	(Wed)	04:08	120	09:41	44S	15:15	240
2024	Feb	08	(Thu)	05:08	118	10:44	46S	16:22	243
2024	Feb	09	(Fri)	06:05	115	11:46	50S	17:30	247
2024	Feb	10	(Sat)	06:56	109	12:44	55S	18:36	254
2024	Feb	11	(Sun)	07:43	103	13:39	62S	19:40	261
2024	Feb	12	(Mon)	08:26	95	14:31	69S	20:41	269
2024	Feb	13	(Tue)	09:06	88	15:21	77S	21:41	276
2024	Feb	14	(Wed)	09:46	80	16:11	84S	22:40	283
2024	Feb	15	(Thu)	10:27	74	17:01	90S	23:39	290
2024	Feb	16	(Fri)	11:11	68	17:53	86N		
2024	Feb	17	(Sat)	11:58	64	18:47	83N	00:39	294
2024	Feb	18	(Sun)	12:49	61	19:42	81N	01:38	298
2024	Feb	19	(Mon)	13:42	60	20:37	80N	02:37	300
2024	Feb	20	(Tue)	14:38	61	21:31	81N	03:32	300
2024	Feb	21	(Wed)	15:33	63	22:22	84N	04:22	298
2024	Feb	22	(Thu)	16:27	67	23:09	87N	05:08	295
2024	Feb	23	(Fri)	17:19	71	23:54	90S	05:48	291
2024	Feb	24	(Sat)	18:08	76			06:25	286
2024	Feb	25	(Sun)	18:56	82	00:36	84S	06:59	281
2024	Feb	26	(Mon)	19:43	88	01:16	79S	07:31	275
2024	Feb	27	(Tue)	20:29	94	01:54	73S	08:02	269
2024	Feb	28	(Wed)	21:17	100	02:33	67S	08:34	263
2024	Feb	29	(Thu)	22:06	106	03:13	61S	09:07	257
2024	Mar	01	(Fri)	22:58	111	03:56	56S	09:42	251
2024	Mar	02	(Sat)	23:53	115	04:41	51S	10:22	247
2024	Mar	03	(Sun)			05:31	47S	11:07	243
2024	Mar	04	(Mon)	00:52	119	06:26	45S	11:58	241
2024	Mar	05	(Tue)	01:52	120	07:24	44S	12:56	240
2024	Mar	06	(Wed)	02:52	120	08:25	44S	14:00	241
2024	Mar	07	(Thu)	03:49	117	09:26	47S	15:06	245
2024	Mar	08	(Fri)	04:41	113	10:25	52S	16:12	250
2024	Mar	09	(Sat)	05:30	107	11:21	58S	17:17	257
2024	Mar	10	(Sun)	06:14	99	12:15	65S	18:20	264
2024	Mar	11	(Mon)	06:56	92	13:07	73S	19:22	272
2024	Mar	12	(Tue)	07:38	84	13:58	80S	20:23	280
2024	Mar	13	(Wed)	08:20	76	14:50	87S	21:24	287
2024	Mar	14	(Thu)	09:04	70	15:43	88N	22:27	293
2024	Mar	15	(Fri)	09:51	65	16:38	84N	23:29	297
2024	Mar	16	(Sat)	10:42	62	17:35	81N		
2024	Mar	17	(Sun)	11:36	60	18:31	80N	00:29	299
2024	Mar	18	(Mon)	12:32	60	19:26	81N	01:27	300
2024	Mar	19	(Tue)	13:28	62	20:19	83N	02:19	299
2024	Mar	20	(Wed)	14:22	65	21:07	86N	03:07	296
2024	Mar	21	(Thu)	15:15	69	21:53	90N	03:49	293
2024	Mar	22	(Fri)	16:05	75	22:35	86S	04:26	288
2024	Mar	23	(Sat)	16:53	80	23:15	81S	05:01	283
2024	Mar	24	(Sun)	17:40	86	23:54	75S	05:33	277
2024	Mar	25	(Mon)	18:27	92			06:04	271
2024	Mar	26	(Tue)	19:14	98	00:33	69S	06:36	265
2024	Mar	27	(Wed)	20:03	104	01:13	63S	07:08	259
2024	Mar	28	(Thu)	20:54	110	01:54	57S	07:43	253
2024	Mar	29	(Fri)	21:48	114	02:39	53S	08:21	248
2024	Mar	30	(Sat)	22:45	118	03:27	48S	09:04	244
2024	Mar	31	(Sun)	23:43	120	04:19	45S	09:53	241
2024	Apr	01	(Mon)			05:15	44S	10:47	240
2024	Apr	02	(Tue)	00:42	120	06:14	44S	11:47	240
2024	Apr	03	(Wed)	01:38	118	07:13	46S	12:50	243
2024	Apr	04	(Thu)	02:31	115	08:11	50S	13:54	247

2024	Apr	05	(Fri)	03:19	110	09:06	55S	14:57	253
2024	Apr	06	(Sat)	04:04	103	09:59	62S	15:59	260
2024	Apr	07	(Sun)	04:46	96	10:51	69S	17:00	268
2024	Apr	08	(Mon)	05:27	88	11:42	76S	18:02	276
2024	Apr	09	(Tue)	06:09	80	12:34	84S	19:04	283
2024	Apr	10	(Wed)	06:52	73	13:27	90S	20:07	290
2024	Apr	11	(Thu)	07:39	67	14:23	86N	21:11	295
2024	Apr	12	(Fri)	08:30	63	15:21	82N	22:15	299
2024	Apr	13	(Sat)	09:25	61	16:20	80N	23:16	300
2024	Apr	14	(Sun)	10:22	60	17:17	80N		
2024	Apr	15	(Mon)	11:19	61	18:12	82N	00:12	300
2024	Apr	16	(Tue)	12:16	64	19:03	85N	01:02	298
2024	Apr	17	(Wed)	13:09	68	19:50	89N	01:47	294
2024	Apr	18	(Thu)	14:00	73	20:33	88S	02:26	290
2024	Apr	19	(Fri)	14:49	78	21:14	83S	03:02	284
2024	Apr	20	(Sat)	15:36	84	21:53	77S	03:35	279
2024	Apr	21	(Sun)	16:23	90	22:32	71S	04:06	273
2024	Apr	22	(Mon)	17:10	96	23:12	65S	04:37	267
2024	Apr	23	(Tue)	17:58	102	23:53	59S	05:09	261
2024	Apr	24	(Wed)	18:49	108			05:44	255
2024	Apr	25	(Thu)	19:43	113	00:37	54S	06:21	250
2024	Apr	26	(Fri)	20:39	117	01:24	50S	07:03	245
2024	Apr	27	(Sat)	21:38	119	02:16	46S	07:50	242
2024	Apr	28	(Sun)	22:36	120	03:11	44S	08:43	240
2024	Apr	29	(Mon)	23:33	119	04:08	44S	09:41	240
2024	Apr	30	(Tue)			05:07	45S	10:42	242
2024	May	01	(Wed)	00:26	116	06:04	48S	11:44	246
2024	May	02	(Thu)	01:14	112	06:58	53S	12:46	251
2024	May	03	(Fri)	01:59	106	07:50	59S	13:46	257
2024	May	04	(Sat)	02:40	99	08:41	66S	14:45	265
2024	May	05	(Sun)	03:20	91	09:30	73S	15:45	272
2024	May	06	(Mon)	04:00	84	10:20	80S	16:45	280
2024	May	07	(Tue)	04:42	77	11:12	87S	17:46	287
2024	May	08	(Wed)	05:27	70	12:06	88N	18:50	293
2024	May	09	(Thu)	06:16	65	13:03	84N	19:55	297
2024	May	10	(Fri)	07:09	62	14:03	81N	20:59	300
2024	May	11	(Sat)	08:07	60	15:03	80N	21:59	300
2024	May	12	(Sun)	09:06	60	16:00	81N	22:53	298
2024	May	13	(Mon)	10:04	63	16:54	83N	23:41	296
2024	May	14	(Tue)	11:00	66	17:44	87N		
2024	May	15	(Wed)	11:53	71	18:29	90S	00:23	291
2024	May	16	(Thu)	12:43	76	19:11	85S	01:00	286
2024	May	17	(Fri)	13:31	82	19:51	79S	01:34	281
2024	May	18	(Sat)	14:18	88	20:30	73S	02:06	275
2024	May	19	(Sun)	15:04	94	21:09	67S	02:38	269
2024	May	20	(Mon)	15:52	100	21:49	61S	03:09	263
2024	May	21	(Tue)	16:42	106	22:32	56S	03:43	257
2024	May	22	(Wed)	17:35	111	23:19	51S	04:19	252
2024	May	23	(Thu)	18:31	116			04:59	247
2024	May	24	(Fri)	19:30	119	00:09	47S	05:45	243
2024	May	25	(Sat)	20:30	120	01:04	45S	06:37	241
2024	May	26	(Sun)	21:28	120	02:02	44S	07:35	240
2024	May	27	(Mon)	22:23	117	03:01	45S	08:36	241
2024	May	28	(Tue)	23:13	113	03:59	47S	09:38	245
2024	May	29	(Wed)	23:58	108	04:55	52S	10:40	249
2024	May	30	(Thu)			05:47	57S	11:40	255
2024	May	31	(Fri)	00:39	101	06:36	63S	12:38	262
2024	Jun	01	(Sat)	01:18	94	07:25	70S	13:36	270
2024	Jun	02	(Sun)	01:57	87	08:13	78S	14:33	277
2024	Jun	03	(Mon)	02:36	79	09:02	84S	15:32	284
2024	Jun	04	(Tue)	03:19	73	09:54	91	16:34	290
2024	Jun	05	(Wed)	04:05	67	10:49	86N	17:37	295
2024	Jun	06	(Thu)	04:56	63	11:47	82N	18:41	299
2024	Jun	07	(Fri)	05:52	61	12:47	80N	19:43	300
2024	Jun	08	(Sat)	06:50	60	13:46	80N	20:41	299
2024	Jun	09	(Sun)	07:50	62	14:42	82N	21:32	297
2024	Jun	10	(Mon)	08:48	65	15:34	85N	22:17	293
2024	Jun	11	(Tue)	09:43	69	16:22	90N	22:57	288
2024	Jun	12	(Wed)	10:35	74	17:06	87S	23:33	283
2024	Jun	13	(Thu)	11:24	80	17:47	81S		
2024	Jun	14	(Fri)	12:11	86	18:26	75S	00:05	277
2024	Jun	15	(Sat)	12:58	92	19:05	69S	00:37	271

2024 Jun 16 (Sun)	13:45 98	19:44 64S	01:08 265
2024 Jun 17 (Mon)	14:34 104	20:26 58S	01:41 259
2024 Jun 18 (Tue)	15:25 109	21:11 53S	02:15 254
2024 Jun 19 (Wed)	16:20 114	22:00 49S	02:54 248
2024 Jun 20 (Thu)	17:18 118	22:54 46S	03:38 244
2024 Jun 21 (Fri)	18:19 120	23:51 44S	04:28 241
2024 Jun 22 (Sat)	19:19 120		05:24 240
2024 Jun 23 (Sun)	20:16 118	00:52 44S	06:25 241
2024 Jun 24 (Mon)	21:08 114	01:51 46S	07:29 243
2024 Jun 25 (Tue)	21:56 109	02:49 50S	08:33 248
2024 Jun 26 (Wed)	22:39 103	03:43 55S	09:34 254
2024 Jun 27 (Thu)	23:19 96	04:34 62S	10:33 260
2024 Jun 28 (Fri)	23:57 89	05:23 69S	11:31 268
2024 Jun 29 (Sat)		06:10 76S	12:28 275
2024 Jun 30 (Sun)	00:36 81	06:58 83S	13:25 282
2024 Jul 01 (Mon)	01:16 75	07:48 89S	14:25 288
2024 Jul 02 (Tue)	02:00 69	08:41 87N	15:26 294
2024 Jul 03 (Wed)	02:48 64	09:37 83N	16:28 298
2024 Jul 04 (Thu)	03:41 61	10:35 81N	17:30 300
2024 Jul 05 (Fri)	04:38 60	11:34 80N	18:29 300
2024 Jul 06 (Sat)	05:37 61	12:31 81N	19:23 298
2024 Jul 07 (Sun)	06:36 63	13:25 84N	20:10 295
2024 Jul 08 (Mon)	07:32 67	14:14 88N	20:52 290
2024 Jul 09 (Tue)	08:26 72	15:00 89S	21:30 285
2024 Jul 10 (Wed)	09:16 78	15:42 83S	22:04 279
2024 Jul 11 (Thu)	10:04 84	16:22 77S	22:36 273
2024 Jul 12 (Fri)	10:51 90	17:01 71S	23:07 267
2024 Jul 13 (Sat)	11:38 96	17:40 66S	23:39 261
2024 Jul 14 (Sun)	12:25 102	18:20 60S	
2024 Jul 15 (Mon)	13:15 107	19:03 55S	00:12 256
2024 Jul 16 (Tue)	14:08 112	19:50 50S	00:48 250
2024 Jul 17 (Wed)	15:04 116	20:41 47S	01:29 246
2024 Jul 18 (Thu)	16:03 119	21:37 44S	02:16 242
2024 Jul 19 (Fri)	17:04 120	22:36 44S	03:09 240
2024 Jul 20 (Sat)	18:03 119	23:37 45S	04:09 240
2024 Jul 21 (Sun)	18:59 116		05:13 242
2024 Jul 22 (Mon)	19:49 111	00:37 48S	06:18 246
2024 Jul 23 (Tue)	20:35 105	01:34 53S	07:23 251
2024 Jul 24 (Wed)	21:17 98	02:28 59S	08:25 258
2024 Jul 25 (Thu)	21:57 91	03:18 66S	09:24 265
2024 Jul 26 (Fri)	22:36 83	04:07 74S	10:22 273
2024 Jul 27 (Sat)	23:16 76	04:56 81S	11:21 280
2024 Jul 28 (Sun)	23:58 70	05:45 87S	12:19 287
2024 Jul 29 (Mon)		06:37 88N	13:20 293
2024 Jul 30 (Tue)	00:45 65	07:31 84N	14:21 297
2024 Jul 31 (Wed)	01:35 62	08:28 81N	15:23 299
2024 Aug 01 (Thu)	02:30 60	09:26 80N	16:22 300
2024 Aug 02 (Fri)	03:28 60	10:23 81N	17:16 299
2024 Aug 03 (Sat)	04:27 62	11:18 83N	18:06 296
2024 Aug 04 (Sun)	05:24 66	12:08 86N	18:49 292
2024 Aug 05 (Mon)	06:18 70	12:55 90S	19:28 287
2024 Aug 06 (Tue)	07:09 76	13:38 85S	20:03 281
2024 Aug 07 (Wed)	07:58 81	14:19 79S	20:35 276
2024 Aug 08 (Thu)	08:45 87	14:58 74S	21:07 269
2024 Aug 09 (Fri)	09:32 94	15:37 68S	21:38 263
2024 Aug 10 (Sat)	10:19 100	16:16 62S	22:10 258
2024 Aug 11 (Sun)	11:07 105	16:58 57S	22:45 252
2024 Aug 12 (Mon)	11:58 110	17:42 52S	23:23 247
2024 Aug 13 (Tue)	12:52 115	18:30 48S	
2024 Aug 14 (Wed)	13:49 118	19:23 45S	00:06 243
2024 Aug 15 (Thu)	14:48 120	20:20 44S	00:56 241
2024 Aug 16 (Fri)	15:47 120	21:20 44S	01:52 240
2024 Aug 17 (Sat)	16:44 118	22:20 46S	02:53 241
2024 Aug 18 (Sun)	17:37 114	23:19 51S	03:58 244
2024 Aug 19 (Mon)	18:26 108		05:03 249
2024 Aug 20 (Tue)	19:10 101	00:15 56S	06:08 255
2024 Aug 21 (Wed)	19:52 94	01:08 63S	07:10 262
2024 Aug 22 (Thu)	20:32 86	01:59 71S	08:11 270
2024 Aug 23 (Fri)	21:13 79	02:49 78S	09:11 278
2024 Aug 24 (Sat)	21:56 72	03:40 85S	10:11 285
2024 Aug 25 (Sun)	22:42 67	04:32 90N	11:13 291
2024 Aug 26 (Mon)	23:32 63	05:27 85N	12:15 296

2024 Aug 27 (Tue)		06:23 82N	13:17 299
2024 Aug 28 (Wed)	00:26 60	07:21 80N	14:17 300
2024 Aug 29 (Thu)	01:23 60	08:18 80N	15:13 300
2024 Aug 30 (Fri)	02:21 61	09:13 82N	16:03 297
2024 Aug 31 (Sat)	03:18 64	10:05 85N	16:48 294
2024 Sep 01 (Sun)	04:13 69	10:52 89N	17:28 289
2024 Sep 02 (Mon)	05:04 74	11:36 87S	18:04 283
2024 Sep 03 (Tue)	05:54 79	12:17 81S	18:37 278
2024 Sep 04 (Wed)	06:41 85	12:57 76S	19:08 272
2024 Sep 05 (Thu)	07:28 91	13:35 70S	19:39 265
2024 Sep 06 (Fri)	08:15 98	14:14 64S	20:11 260
2024 Sep 07 (Sat)	09:02 103	14:55 58S	20:44 254
2024 Sep 08 (Sun)	09:52 109	15:38 53S	21:21 249
2024 Sep 09 (Mon)	10:44 113	16:24 49S	22:01 245
2024 Sep 10 (Tue)	11:38 117	17:14 46S	22:47 242
2024 Sep 11 (Wed)	12:35 120	18:07 44S	23:39 240
2024 Sep 12 (Thu)	13:33 120	19:04 44S	
2024 Sep 13 (Fri)	14:30 119	20:03 45S	00:36 240
2024 Sep 14 (Sat)	15:23 116	21:01 48S	01:38 242
2024 Sep 15 (Sun)	16:13 111	21:58 53S	02:42 246
2024 Sep 16 (Mon)	16:59 105	22:52 60S	03:46 251
2024 Sep 17 (Tue)	17:42 98	23:44 67S	04:49 258
2024 Sep 18 (Wed)	18:24 90		05:51 266
2024 Sep 19 (Thu)	19:05 82	00:36 74S	06:53 274
2024 Sep 20 (Fri)	19:48 75	01:28 82S	07:55 282
2024 Sep 21 (Sat)	20:35 69	02:21 89S	08:58 289
2024 Sep 22 (Sun)	21:25 64	03:17 87N	10:03 294
2024 Sep 23 (Mon)	22:19 61	04:15 83N	11:08 298
2024 Sep 24 (Tue)	23:17 60	05:14 80N	12:10 300
2024 Sep 25 (Wed)		06:13 80N	13:08 300
2024 Sep 26 (Thu)	00:15 61	07:09 81N	14:01 298
2024 Sep 27 (Fri)	01:13 63	08:02 84N	14:48 295
2024 Sep 28 (Sat)	02:08 67	08:50 88N	15:28 290
2024 Sep 29 (Sun)	03:01 72	09:35 89S	16:05 285
2024 Sep 30 (Mon)	03:51 77	10:17 83S	16:39 280
2024 Oct 01 (Tue)	04:39 83	10:56 78S	17:10 274
2024 Oct 02 (Wed)	05:25 89	11:35 72S	17:41 267
2024 Oct 03 (Thu)	06:12 96	12:14 66S	18:13 261
2024 Oct 04 (Fri)	06:59 102	12:54 60S	18:45 256
2024 Oct 05 (Sat)	07:48 107	13:36 55S	19:21 251
2024 Oct 06 (Sun)	08:39 112	14:21 50S	20:00 246
2024 Oct 07 (Mon)	09:32 116	15:09 47S	20:43 242
2024 Oct 08 (Tue)	10:28 119	16:01 44S	21:33 240
2024 Oct 09 (Wed)	11:24 120	16:56 43S	22:27 240
2024 Oct 10 (Thu)	12:20 120	17:52 44S	23:25 241
2024 Oct 11 (Fri)	13:13 118	18:49 47S	
2024 Oct 12 (Sat)	14:03 114	19:44 51S	00:26 244
2024 Oct 13 (Sun)	14:49 108	20:37 56S	01:28 249
2024 Oct 14 (Mon)	15:32 102	21:29 63S	02:30 255
2024 Oct 15 (Tue)	16:13 94	22:20 70S	03:31 262
2024 Oct 16 (Wed)	16:54 86	23:11 78S	04:31 270
2024 Oct 17 (Thu)	17:37 79		05:33 278
2024 Oct 18 (Fri)	18:22 72	00:04 85S	06:37 285
2024 Oct 19 (Sat)	19:12 66	01:00 90N	07:42 292
2024 Oct 20 (Sun)	20:06 62	01:58 84N	08:49 296
2024 Oct 21 (Mon)	21:04 60	03:00 81N	09:55 299
2024 Oct 22 (Tue)	22:05 60	04:01 80N	10:58 300
2024 Oct 23 (Wed)	23:05 62	05:01 80N	11:54 299
2024 Oct 24 (Thu)		05:56 83N	12:44 296
2024 Oct 25 (Fri)	00:02 66	06:47 86N	13:28 292
2024 Oct 26 (Sat)	00:56 70	07:33 90S	14:06 287
2024 Oct 27 (Sun)	01:47 76	08:16 85S	14:40 281
2024 Oct 28 (Mon)	02:36 81	08:56 79S	15:13 276
2024 Oct 29 (Tue)	03:22 87	09:35 74S	15:44 269
2024 Oct 30 (Wed)	04:09 94	10:14 68S	16:15 263
2024 Oct 31 (Thu)	04:56 100	10:53 62S	16:47 258
2024 Nov 01 (Fri)	05:44 105	11:34 57S	17:22 252
2024 Nov 02 (Sat)	06:35 110	12:19 52S	18:00 247
2024 Nov 03 (Sun)	07:28 115	13:06 48S	18:42 244
2024 Nov 04 (Mon)	08:23 118	13:57 45S	19:30 241
2024 Nov 05 (Tue)	09:19 120	14:51 44S	20:22 240
2024 Nov 06 (Wed)	10:15 120	15:47 44S	21:19 240

2024 Nov 07 (Thu)	11:08 118	16:42 46S	22:18 243
2024 Nov 08 (Fri)	11:58 115	17:37 49S	23:18 247
2024 Nov 09 (Sat)	12:44 110	18:29 54S	
2024 Nov 10 (Sun)	13:26 104	19:19 60S	00:18 252
2024 Nov 11 (Mon)	14:06 98	20:08 67S	01:16 259
2024 Nov 12 (Tue)	14:46 90	20:57 74S	02:15 266
2024 Nov 13 (Wed)	15:26 83	21:48 82S	03:14 274
2024 Nov 14 (Thu)	16:09 75	22:41 89S	04:15 281
2024 Nov 15 (Fri)	16:56 69	23:38 87N	05:18 288
2024 Nov 16 (Sat)	17:48 64		06:25 294
2024 Nov 17 (Sun)	18:46 61	00:39 83N	07:33 298
2024 Nov 18 (Mon)	19:48 60	01:42 80N	08:39 300
2024 Nov 19 (Tue)	20:50 61	02:44 80N	09:40 300
2024 Nov 20 (Wed)	21:51 64	03:44 82N	10:35 297
2024 Nov 21 (Thu)	22:48 68	04:38 85N	11:22 294
2024 Nov 22 (Fri)	23:41 74	05:27 89N	12:03 289
2024 Nov 23 (Sat)		06:12 87S	12:40 283
2024 Nov 24 (Sun)	00:30 79	06:54 81S	13:13 278
2024 Nov 25 (Mon)	01:18 85	07:33 76S	13:44 272
2024 Nov 26 (Tue)	02:04 92	08:12 70S	14:15 265
2024 Nov 27 (Wed)	02:51 98	08:51 64S	14:47 260
2024 Nov 28 (Thu)	03:39 103	09:32 58S	15:21 254
2024 Nov 29 (Fri)	04:29 109	10:15 53S	15:58 249
2024 Nov 30 (Sat)	05:21 113	11:01 49S	16:39 245
2024 Dec 01 (Sun)	06:16 117	11:52 46S	17:26 242
2024 Dec 02 (Mon)	07:13 119	12:46 44S	18:17 240
2024 Dec 03 (Tue)	08:10 120	13:42 44S	19:14 240
2024 Dec 04 (Wed)	09:05 119	14:38 45S	20:13 242
2024 Dec 05 (Thu)	09:56 116	15:33 48S	21:13 246
2024 Dec 06 (Fri)	10:42 112	16:26 53S	22:12 251
2024 Dec 07 (Sat)	11:25 106	17:16 58S	23:10 257
2024 Dec 08 (Sun)	12:05 100	18:04 65S	
2024 Dec 09 (Mon)	12:43 93	18:51 72S	00:07 264
2024 Dec 10 (Tue)	13:21 85	19:39 79S	01:03 271
2024 Dec 11 (Wed)	14:02 78	20:29 86S	02:01 278
2024 Dec 12 (Thu)	14:45 72	21:22 90N	03:01 285
2024 Dec 13 (Fri)	15:34 66	22:20 85N	04:04 292
2024 Dec 14 (Sat)	16:28 62	23:21 81N	05:10 296
2024 Dec 15 (Sun)	17:28 60		06:17 299
2024 Dec 16 (Mon)	18:30 60	00:24 80N	07:21 300
2024 Dec 17 (Tue)	19:33 63	01:26 81N	08:20 299
2024 Dec 18 (Wed)	20:33 67	02:24 83N	09:12 295
2024 Dec 19 (Thu)	21:29 71	03:17 87N	09:57 291
2024 Dec 20 (Fri)	22:22 77	04:05 89S	10:36 286
2024 Dec 21 (Sat)	23:11 83	04:48 84S	11:11 280
2024 Dec 22 (Sun)	23:58 89	05:29 78S	11:43 274
2024 Dec 23 (Mon)		06:08 72S	12:15 268
2024 Dec 24 (Tue)	00:45 95	06:47 66S	12:46 262
2024 Dec 25 (Wed)	01:32 101	07:27 60S	13:19 256
2024 Dec 26 (Thu)	02:21 107	08:09 55S	13:54 251
2024 Dec 27 (Fri)	03:12 112	08:54 51S	14:34 246
2024 Dec 28 (Sat)	04:06 116	09:43 47S	15:18 243
2024 Dec 29 (Sun)	05:03 119	10:36 45S	16:09 241
2024 Dec 30 (Mon)	06:00 120	11:32 44S	17:04 240
2024 Dec 31 (Tue)	06:57 120	12:30 45S	18:04 241