

Sun

Surin

Location: E103°29'23.9", N14°53'02.4", 0m
(Longitude referred to Greenwich meridian)

Time Zone: 7h 00m east of Greenwich

Date (Zone)			Begin Nautical Twilight	Rise	Az.	Transit Alt.	Set	Az.	End Nautical Twilight
			h m	h m	°	h m °	h m °		h m
2024	Jan	01 (Mon)	05:41	06:31	114	12:09 53S	17:47	246	18:37
2024	Jan	02 (Tue)	05:42	06:32	114	12:10 53S	17:48	246	18:38
2024	Jan	03 (Wed)	05:42	06:32	113	12:10 53S	17:48	247	18:38
2024	Jan	04 (Thu)	05:43	06:32	113	12:11 53S	17:49	247	18:39
2024	Jan	05 (Fri)	05:43	06:33	113	12:11 53S	17:49	247	18:39
2024	Jan	06 (Sat)	05:43	06:33	113	12:12 53S	17:50	247	18:40
2024	Jan	07 (Sun)	05:44	06:33	113	12:12 53S	17:51	247	18:40
2024	Jan	08 (Mon)	05:44	06:34	113	12:12 54S	17:51	247	18:41
2024	Jan	09 (Tue)	05:44	06:34	113	12:13 54S	17:52	247	18:41
2024	Jan	10 (Wed)	05:45	06:34	113	12:13 54S	17:52	247	18:42
2024	Jan	11 (Thu)	05:45	06:34	112	12:14 54S	17:53	248	18:43
2024	Jan	12 (Fri)	05:45	06:35	112	12:14 54S	17:54	248	18:43
2024	Jan	13 (Sat)	05:45	06:35	112	12:14 54S	17:54	248	18:44
2024	Jan	14 (Sun)	05:46	06:35	112	12:15 54S	17:55	248	18:44
2024	Jan	15 (Mon)	05:46	06:35	112	12:15 55S	17:55	248	18:45
2024	Jan	16 (Tue)	05:46	06:35	112	12:16 55S	17:56	248	18:45
2024	Jan	17 (Wed)	05:46	06:35	111	12:16 55S	17:56	249	18:46
2024	Jan	18 (Thu)	05:46	06:35	111	12:16 55S	17:57	249	18:46
2024	Jan	19 (Fri)	05:46	06:36	111	12:17 55S	17:58	249	18:47
2024	Jan	20 (Sat)	05:47	06:36	111	12:17 56S	17:58	249	18:47
2024	Jan	21 (Sun)	05:47	06:36	111	12:17 56S	17:59	250	18:48
2024	Jan	22 (Mon)	05:47	06:36	110	12:17 56S	17:59	250	18:48
2024	Jan	23 (Tue)	05:47	06:36	110	12:18 56S	18:00	250	18:49
2024	Jan	24 (Wed)	05:47	06:36	110	12:18 56S	18:00	250	18:49
2024	Jan	25 (Thu)	05:47	06:36	110	12:18 57S	18:01	251	18:49
2024	Jan	26 (Fri)	05:47	06:36	109	12:18 57S	18:01	251	18:50
2024	Jan	27 (Sat)	05:47	06:35	109	12:19 57S	18:02	251	18:50
2024	Jan	28 (Sun)	05:47	06:35	109	12:19 57S	18:02	251	18:51
2024	Jan	29 (Mon)	05:47	06:35	109	12:19 58S	18:03	252	18:51
2024	Jan	30 (Tue)	05:47	06:35	108	12:19 58S	18:03	252	18:52
2024	Jan	31 (Wed)	05:47	06:35	108	12:19 58S	18:04	252	18:52
2024	Feb	01 (Thu)	05:47	06:35	108	12:19 59S	18:04	252	18:52
2024	Feb	02 (Fri)	05:47	06:35	107	12:20 59S	18:05	253	18:53
2024	Feb	03 (Sat)	05:46	06:34	107	12:20 59S	18:05	253	18:53
2024	Feb	04 (Sun)	05:46	06:34	107	12:20 59S	18:06	253	18:54
2024	Feb	05 (Mon)	05:46	06:34	106	12:20 60S	18:06	254	18:54
2024	Feb	06 (Tue)	05:46	06:34	106	12:20 60S	18:06	254	18:54
2024	Feb	07 (Wed)	05:46	06:33	106	12:20 60S	18:07	254	18:55
2024	Feb	08 (Thu)	05:46	06:33	106	12:20 61S	18:07	255	18:55
2024	Feb	09 (Fri)	05:45	06:33	105	12:20 61S	18:08	255	18:55
2024	Feb	10 (Sat)	05:45	06:33	105	12:20 61S	18:08	255	18:56
2024	Feb	11 (Sun)	05:45	06:32	105	12:20 62S	18:08	256	18:56
2024	Feb	12 (Mon)	05:44	06:32	104	12:20 62S	18:09	256	18:56
2024	Feb	13 (Tue)	05:44	06:31	104	12:20 62S	18:09	256	18:57
2024	Feb	14 (Wed)	05:44	06:31	104	12:20 63S	18:10	257	18:57
2024	Feb	15 (Thu)	05:43	06:31	103	12:20 63S	18:10	257	18:57
2024	Feb	16 (Fri)	05:43	06:30	103	12:20 63S	18:10	257	18:57
2024	Feb	17 (Sat)	05:43	06:30	102	12:20 64S	18:11	258	18:58
2024	Feb	18 (Sun)	05:42	06:29	102	12:20 64S	18:11	258	18:58
2024	Feb	19 (Mon)	05:42	06:29	102	12:20 64S	18:11	258	18:58
2024	Feb	20 (Tue)	05:41	06:28	101	12:20 65S	18:11	259	18:58
2024	Feb	21 (Wed)	05:41	06:28	101	12:20 65S	18:12	259	18:59
2024	Feb	22 (Thu)	05:41	06:27	101	12:20 65S	18:12	260	18:59
2024	Feb	23 (Fri)	05:40	06:27	100	12:19 66S	18:12	260	18:59
2024	Feb	24 (Sat)	05:40	06:26	100	12:19 66S	18:13	260	18:59
2024	Feb	25 (Sun)	05:39	06:26	99	12:19 67S	18:13	261	18:59
2024	Feb	26 (Mon)	05:39	06:25	99	12:19 67S	18:13	261	19:00
2024	Feb	27 (Tue)	05:38	06:25	99	12:19 67S	18:13	261	19:00
2024	Feb	28 (Wed)	05:38	06:24	98	12:19 68S	18:13	262	19:00
2024	Feb	29 (Thu)	05:37	06:23	98	12:18 68S	18:14	262	19:00

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

2024	May	12	(Sun)	04:49	05:39	71	12:02	87N	18:26	289	19:16
2024	May	13	(Mon)	04:49	05:38	71	12:02	87N	18:27	289	19:16
2024	May	14	(Tue)	04:49	05:38	70	12:02	87N	18:27	290	19:17
2024	May	15	(Wed)	04:48	05:38	70	12:02	87N	18:27	290	19:17
2024	May	16	(Thu)	04:48	05:38	70	12:02	86N	18:27	290	19:17
2024	May	17	(Fri)	04:47	05:37	70	12:02	86N	18:28	290	19:18
2024	May	18	(Sat)	04:47	05:37	69	12:02	86N	18:28	291	19:18
2024	May	19	(Sun)	04:47	05:37	69	12:03	86N	18:28	291	19:18
2024	May	20	(Mon)	04:47	05:37	69	12:03	86N	18:29	291	19:19
2024	May	21	(Tue)	04:46	05:36	69	12:03	85N	18:29	291	19:19
2024	May	22	(Wed)	04:46	05:36	69	12:03	85N	18:29	292	19:20
2024	May	23	(Thu)	04:46	05:36	68	12:03	85N	18:30	292	19:20
2024	May	24	(Fri)	04:46	05:36	68	12:03	85N	18:30	292	19:20
2024	May	25	(Sat)	04:45	05:36	68	12:03	85N	18:30	292	19:21
2024	May	26	(Sun)	04:45	05:36	68	12:03	84N	18:31	292	19:21
2024	May	27	(Mon)	04:45	05:36	68	12:03	84N	18:31	292	19:22
2024	May	28	(Tue)	04:45	05:36	67	12:03	84N	18:31	293	19:22
2024	May	29	(Wed)	04:45	05:36	67	12:03	84N	18:32	293	19:22
2024	May	30	(Thu)	04:45	05:35	67	12:04	84N	18:32	293	19:23
2024	May	31	(Fri)	04:44	05:35	67	12:04	84N	18:32	293	19:23
2024	Jun	01	(Sat)	04:44	05:35	67	12:04	83N	18:33	293	19:24
2024	Jun	02	(Sun)	04:44	05:35	67	12:04	83N	18:33	293	19:24
2024	Jun	03	(Mon)	04:44	05:35	67	12:04	83N	18:33	293	19:24
2024	Jun	04	(Tue)	04:44	05:35	66	12:04	83N	18:34	294	19:25
2024	Jun	05	(Wed)	04:44	05:35	66	12:05	83N	18:34	294	19:25
2024	Jun	06	(Thu)	04:44	05:36	66	12:05	83N	18:34	294	19:25
2024	Jun	07	(Fri)	04:44	05:36	66	12:05	83N	18:34	294	19:26
2024	Jun	08	(Sat)	04:44	05:36	66	12:05	83N	18:35	294	19:26
2024	Jun	09	(Sun)	04:44	05:36	66	12:05	83N	18:35	294	19:27
2024	Jun	10	(Mon)	04:44	05:36	66	12:06	83N	18:35	294	19:27
2024	Jun	11	(Tue)	04:44	05:36	66	12:06	82N	18:36	294	19:27
2024	Jun	12	(Wed)	04:45	05:36	66	12:06	82N	18:36	294	19:27
2024	Jun	13	(Thu)	04:45	05:36	66	12:06	82N	18:36	294	19:28
2024	Jun	14	(Fri)	04:45	05:36	66	12:06	82N	18:36	294	19:28
2024	Jun	15	(Sat)	04:45	05:36	66	12:07	82N	18:37	294	19:28
2024	Jun	16	(Sun)	04:45	05:37	66	12:07	82N	18:37	294	19:29
2024	Jun	17	(Mon)	04:45	05:37	66	12:07	82N	18:37	295	19:29
2024	Jun	18	(Tue)	04:45	05:37	65	12:07	82N	18:38	295	19:29
2024	Jun	19	(Wed)	04:46	05:37	65	12:07	82N	18:38	295	19:29
2024	Jun	20	(Thu)	04:46	05:37	65	12:08	82N	18:38	295	19:30
2024	Jun	21	(Fri)	04:46	05:38	65	12:08	82N	18:38	295	19:30
2024	Jun	22	(Sat)	04:46	05:38	65	12:08	82N	18:38	295	19:30
2024	Jun	23	(Sun)	04:46	05:38	65	12:08	82N	18:39	295	19:30
2024	Jun	24	(Mon)	04:47	05:38	65	12:09	82N	18:39	295	19:30
2024	Jun	25	(Tue)	04:47	05:39	66	12:09	82N	18:39	294	19:31
2024	Jun	26	(Wed)	04:47	05:39	66	12:09	82N	18:39	294	19:31
2024	Jun	27	(Thu)	04:47	05:39	66	12:09	82N	18:39	294	19:31
2024	Jun	28	(Fri)	04:48	05:39	66	12:09	82N	18:39	294	19:31
2024	Jun	29	(Sat)	04:48	05:40	66	12:10	82N	18:40	294	19:31
2024	Jun	30	(Sun)	04:48	05:40	66	12:10	82N	18:40	294	19:31
2024	Jul	01	(Mon)	04:49	05:40	66	12:10	83N	18:40	294	19:31
2024	Jul	02	(Tue)	04:49	05:40	66	12:10	83N	18:40	294	19:31
2024	Jul	03	(Wed)	04:49	05:41	66	12:10	83N	18:40	294	19:31
2024	Jul	04	(Thu)	04:50	05:41	66	12:11	83N	18:40	294	19:31
2024	Jul	05	(Fri)	04:50	05:41	66	12:11	83N	18:40	294	19:31
2024	Jul	06	(Sat)	04:50	05:42	66	12:11	83N	18:40	294	19:31
2024	Jul	07	(Sun)	04:51	05:42	66	12:11	83N	18:40	294	19:31
2024	Jul	08	(Mon)	04:51	05:42	66	12:11	83N	18:40	293	19:31
2024	Jul	09	(Tue)	04:51	05:43	67	12:11	83N	18:40	293	19:31
2024	Jul	10	(Wed)	04:52	05:43	67	12:11	83N	18:40	293	19:31
2024	Jul	11	(Thu)	04:52	05:43	67	12:12	84N	18:40	293	19:31
2024	Jul	12	(Fri)	04:52	05:43	67	12:12	84N	18:40	293	19:31
2024	Jul	13	(Sat)	04:53	05:44	67	12:12	84N	18:40	293	19:31
2024	Jul	14	(Sun)	04:53	05:44	67	12:12	84N	18:40	293	19:31
2024	Jul	15	(Mon)	04:54	05:44	67	12:12	84N	18:40	292	19:30
2024	Jul	16	(Tue)	04:54	05:45	68	12:12	84N	18:40	292	19:30
2024	Jul	17	(Wed)	04:54	05:45	68	12:12	84N	18:39	292	19:30
2024	Jul	18	(Thu)	04:55	05:45	68	12:12	85N	18:39	292	19:30
2024	Jul	19	(Fri)	04:55	05:46	68	12:12	85N	18:39	292	19:30
2024	Jul	20	(Sat)	04:55	05:46	68	12:12	85N	18:39	291	19:29
2024	Jul	21	(Sun)	04:56	05:46	69	12:13	85N	18:39	291	19:29
2024	Jul	22	(Mon)	04:56	05:46	69	12:13	85N	18:39	291	19:29

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

2024	Oct	03	(Thu)	05:10	05:56	94	11:55	72S	17:54	266	18:40
2024	Oct	04	(Fri)	05:10	05:56	94	11:55	71S	17:53	265	18:39
2024	Oct	05	(Sat)	05:10	05:56	95	11:54	71S	17:52	265	18:39
2024	Oct	06	(Sun)	05:10	05:56	95	11:54	71S	17:52	265	18:38
2024	Oct	07	(Mon)	05:10	05:56	96	11:54	70S	17:51	264	18:37
2024	Oct	08	(Tue)	05:10	05:57	96	11:54	70S	17:50	264	18:37
2024	Oct	09	(Wed)	05:10	05:57	96	11:53	69S	17:50	263	18:36
2024	Oct	10	(Thu)	05:10	05:57	97	11:53	69S	17:49	263	18:35
2024	Oct	11	(Fri)	05:10	05:57	97	11:53	69S	17:48	263	18:35
2024	Oct	12	(Sat)	05:11	05:57	98	11:52	68S	17:48	262	18:34
2024	Oct	13	(Sun)	05:11	05:57	98	11:52	68S	17:47	262	18:34
2024	Oct	14	(Mon)	05:11	05:57	98	11:52	68S	17:46	262	18:33
2024	Oct	15	(Tue)	05:11	05:58	99	11:52	67S	17:46	261	18:32
2024	Oct	16	(Wed)	05:11	05:58	99	11:52	67S	17:45	261	18:32
2024	Oct	17	(Thu)	05:11	05:58	99	11:51	66S	17:45	260	18:31
2024	Oct	18	(Fri)	05:11	05:58	100	11:51	66S	17:44	260	18:31
2024	Oct	19	(Sat)	05:12	05:58	100	11:51	66S	17:43	260	18:30
2024	Oct	20	(Sun)	05:12	05:59	101	11:51	65S	17:43	259	18:30
2024	Oct	21	(Mon)	05:12	05:59	101	11:51	65S	17:42	259	18:29
2024	Oct	22	(Tue)	05:12	05:59	101	11:50	65S	17:42	259	18:29
2024	Oct	23	(Wed)	05:12	05:59	102	11:50	64S	17:41	258	18:28
2024	Oct	24	(Thu)	05:12	05:59	102	11:50	64S	17:41	258	18:28
2024	Oct	25	(Fri)	05:13	06:00	102	11:50	64S	17:40	257	18:27
2024	Oct	26	(Sat)	05:13	06:00	103	11:50	63S	17:40	257	18:27
2024	Oct	27	(Sun)	05:13	06:00	103	11:50	63S	17:39	257	18:27
2024	Oct	28	(Mon)	05:13	06:01	103	11:50	63S	17:39	256	18:26
2024	Oct	29	(Tue)	05:14	06:01	104	11:50	62S	17:38	256	18:26
2024	Oct	30	(Wed)	05:14	06:01	104	11:50	62S	17:38	256	18:25
2024	Oct	31	(Thu)	05:14	06:01	104	11:50	62S	17:38	255	18:25
2024	Nov	01	(Fri)	05:14	06:02	105	11:50	61S	17:37	255	18:25
2024	Nov	02	(Sat)	05:15	06:02	105	11:50	61S	17:37	255	18:24
2024	Nov	03	(Sun)	05:15	06:03	105	11:50	61S	17:37	254	18:24
2024	Nov	04	(Mon)	05:15	06:03	106	11:50	60S	17:36	254	18:24
2024	Nov	05	(Tue)	05:15	06:03	106	11:50	60S	17:36	254	18:24
2024	Nov	06	(Wed)	05:16	06:04	106	11:50	60S	17:36	253	18:23
2024	Nov	07	(Thu)	05:16	06:04	107	11:50	59S	17:35	253	18:23
2024	Nov	08	(Fri)	05:16	06:04	107	11:50	59S	17:35	253	18:23
2024	Nov	09	(Sat)	05:17	06:05	107	11:50	59S	17:35	253	18:23
2024	Nov	10	(Sun)	05:17	06:05	108	11:50	59S	17:35	252	18:23
2024	Nov	11	(Mon)	05:17	06:06	108	11:50	58S	17:34	252	18:23
2024	Nov	12	(Tue)	05:18	06:06	108	11:50	58S	17:34	252	18:22
2024	Nov	13	(Wed)	05:18	06:07	108	11:50	58S	17:34	251	18:22
2024	Nov	14	(Thu)	05:19	06:07	109	11:50	57S	17:34	251	18:22
2024	Nov	15	(Fri)	05:19	06:07	109	11:51	57S	17:34	251	18:22
2024	Nov	16	(Sat)	05:19	06:08	109	11:51	57S	17:34	251	18:22
2024	Nov	17	(Sun)	05:20	06:08	109	11:51	57S	17:34	250	18:22
2024	Nov	18	(Mon)	05:20	06:09	110	11:51	56S	17:33	250	18:22
2024	Nov	19	(Tue)	05:21	06:09	110	11:51	56S	17:33	250	18:22
2024	Nov	20	(Wed)	05:21	06:10	110	11:52	56S	17:33	250	18:22
2024	Nov	21	(Thu)	05:21	06:10	110	11:52	56S	17:33	249	18:22
2024	Nov	22	(Fri)	05:22	06:11	111	11:52	56S	17:33	249	18:22
2024	Nov	23	(Sat)	05:22	06:11	111	11:52	55S	17:33	249	18:22
2024	Nov	24	(Sun)	05:23	06:12	111	11:53	55S	17:33	249	18:23
2024	Nov	25	(Mon)	05:23	06:12	111	11:53	55S	17:34	249	18:23
2024	Nov	26	(Tue)	05:24	06:13	112	11:53	55S	17:34	248	18:23
2024	Nov	27	(Wed)	05:24	06:14	112	11:54	55S	17:34	248	18:23
2024	Nov	28	(Thu)	05:25	06:14	112	11:54	54S	17:34	248	18:23
2024	Nov	29	(Fri)	05:25	06:15	112	11:54	54S	17:34	248	18:23
2024	Nov	30	(Sat)	05:26	06:15	112	11:55	54S	17:34	248	18:24
2024	Dec	01	(Sun)	05:26	06:16	112	11:55	54S	17:34	248	18:24
2024	Dec	02	(Mon)	05:27	06:16	113	11:56	54S	17:35	247	18:24
2024	Dec	03	(Tue)	05:27	06:17	113	11:56	54S	17:35	247	18:24
2024	Dec	04	(Wed)	05:28	06:17	113	11:56	54S	17:35	247	18:25
2024	Dec	05	(Thu)	05:28	06:18	113	11:57	53S	17:35	247	18:25
2024	Dec	06	(Fri)	05:29	06:19	113	11:57	53S	17:36	247	18:25
2024	Dec	07	(Sat)	05:29	06:19	113	11:58	53S	17:36	247	18:26
2024	Dec	08	(Sun)	05:30	06:20	113	11:58	53S	17:36	247	18:26
2024	Dec	09	(Mon)	05:30	06:20	113	11:58	53S	17:37	247	18:26
2024	Dec	10	(Tue)	05:31	06:21	114	11:59	53S	17:37	246	18:27
2024	Dec	11	(Wed)	05:31	06:21	114	11:59	53S	17:37	246	18:27
2024	Dec	12	(Thu)	05:32	06:22	114	12:00	53S	17:38	246	18:28
2024	Dec	13	(Fri)	05:33	06:23	114	12:00	53S	17:38	246	18:28

2024	Dec 14	(Sat)	05:33	06:23	114	12:01	53S	17:38	246	18:28
2024	Dec 15	(Sun)	05:34	06:24	114	12:01	53S	17:39	246	18:29
2024	Dec 16	(Mon)	05:34	06:24	114	12:02	52S	17:39	246	18:29
2024	Dec 17	(Tue)	05:35	06:25	114	12:02	52S	17:40	246	18:30
2024	Dec 18	(Wed)	05:35	06:25	114	12:03	52S	17:40	246	18:30
2024	Dec 19	(Thu)	05:36	06:26	114	12:03	52S	17:41	246	18:31
2024	Dec 20	(Fri)	05:36	06:26	114	12:04	52S	17:41	246	18:31
2024	Dec 21	(Sat)	05:37	06:27	114	12:04	52S	17:42	246	18:32
2024	Dec 22	(Sun)	05:37	06:27	114	12:05	52S	17:42	246	18:32
2024	Dec 23	(Mon)	05:38	06:28	114	12:05	52S	17:43	246	18:33
2024	Dec 24	(Tue)	05:38	06:28	114	12:06	52S	17:43	246	18:33
2024	Dec 25	(Wed)	05:39	06:29	114	12:06	52S	17:44	246	18:34
2024	Dec 26	(Thu)	05:39	06:29	114	12:07	52S	17:44	246	18:34
2024	Dec 27	(Fri)	05:40	06:30	114	12:07	53S	17:45	246	18:35
2024	Dec 28	(Sat)	05:40	06:30	114	12:08	53S	17:45	246	18:35
2024	Dec 29	(Sun)	05:40	06:30	114	12:08	53S	17:46	246	18:36
2024	Dec 30	(Mon)	05:41	06:31	114	12:09	53S	17:46	246	18:36
2024	Dec 31	(Tue)	05:41	06:31	114	12:09	53S	17:47	246	18:37

Sun

Surin

Location: E103°29'23.9", N14°53'02.4", 0m
(Longitude referred to Greenwich meridian)

Time Zone: 7h 00m east of Greenwich

Date (Zone)	Begin Civil Twilight		Rise	Az.	Transit	Alt.	Set	Az.	End Civil Twilight	
	h	m	h	m	°	h	m	°	h	m
2024	Jan 01	(Mon)	06:08	06:31	114	12:09	53S	17:47	246	18:10
2024	Jan 02	(Tue)	06:08	06:32	114	12:10	53S	17:48	246	18:11
2024	Jan 03	(Wed)	06:09	06:32	113	12:10	53S	17:48	247	18:12
2024	Jan 04	(Thu)	06:09	06:32	113	12:11	53S	17:49	247	18:12
2024	Jan 05	(Fri)	06:10	06:33	113	12:11	53S	17:49	247	18:13
2024	Jan 06	(Sat)	06:10	06:33	113	12:12	53S	17:50	247	18:13
2024	Jan 07	(Sun)	06:10	06:33	113	12:12	53S	17:51	247	18:14
2024	Jan 08	(Mon)	06:11	06:34	113	12:12	54S	17:51	247	18:14
2024	Jan 09	(Tue)	06:11	06:34	113	12:13	54S	17:52	247	18:15
2024	Jan 10	(Wed)	06:11	06:34	113	12:13	54S	17:52	247	18:15
2024	Jan 11	(Thu)	06:11	06:34	112	12:14	54S	17:53	248	18:16
2024	Jan 12	(Fri)	06:12	06:35	112	12:14	54S	17:54	248	18:17
2024	Jan 13	(Sat)	06:12	06:35	112	12:14	54S	17:54	248	18:17
2024	Jan 14	(Sun)	06:12	06:35	112	12:15	54S	17:55	248	18:18
2024	Jan 15	(Mon)	06:12	06:35	112	12:15	55S	17:55	248	18:18
2024	Jan 16	(Tue)	06:12	06:35	112	12:16	55S	17:56	248	18:19
2024	Jan 17	(Wed)	06:13	06:35	111	12:16	55S	17:56	249	18:19
2024	Jan 18	(Thu)	06:13	06:35	111	12:16	55S	17:57	249	18:20
2024	Jan 19	(Fri)	06:13	06:36	111	12:17	55S	17:58	249	18:20
2024	Jan 20	(Sat)	06:13	06:36	111	12:17	56S	17:58	249	18:21
2024	Jan 21	(Sun)	06:13	06:36	111	12:17	56S	17:59	250	18:21
2024	Jan 22	(Mon)	06:13	06:36	110	12:17	56S	17:59	250	18:22
2024	Jan 23	(Tue)	06:13	06:36	110	12:18	56S	18:00	250	18:22
2024	Jan 24	(Wed)	06:13	06:36	110	12:18	56S	18:00	250	18:23
2024	Jan 25	(Thu)	06:13	06:36	110	12:18	57S	18:01	251	18:23
2024	Jan 26	(Fri)	06:13	06:36	109	12:18	57S	18:01	251	18:24
2024	Jan 27	(Sat)	06:13	06:35	109	12:19	57S	18:02	251	18:24
2024	Jan 28	(Sun)	06:13	06:35	109	12:19	57S	18:02	251	18:25
2024	Jan 29	(Mon)	06:13	06:35	109	12:19	58S	18:03	252	18:25
2024	Jan 30	(Tue)	06:13	06:35	108	12:19	58S	18:03	252	18:26
2024	Jan 31	(Wed)	06:13	06:35	108	12:19	58S	18:04	252	18:26
2024	Feb 01	(Thu)	06:12	06:35	108	12:19	59S	18:04	252	18:27
2024	Feb 02	(Fri)	06:12	06:35	107	12:20	59S	18:05	253	18:27
2024	Feb 03	(Sat)	06:12	06:34	107	12:20	59S	18:05	253	18:27
2024	Feb 04	(Sun)	06:12	06:34	107	12:20	59S	18:06	253	18:28
2024	Feb 05	(Mon)	06:12	06:34	106	12:20	60S	18:06	254	18:28
2024	Feb 06	(Tue)	06:12	06:34	106	12:20	60S	18:06	254	18:29
2024	Feb 07	(Wed)	06:11	06:33	106	12:20	60S	18:07	254	18:29
2024	Feb 08	(Thu)	06:11	06:33	106	12:20	61S	18:07	255	18:29
2024	Feb 09	(Fri)	06:11	06:33	105	12:20	61S	18:08	255	18:30
2024	Feb 10	(Sat)	06:10	06:33	105	12:20	61S	18:08	255	18:30

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

2024	Apr	23	(Tue)	05:25	05:47	77	12:04	89S	18:22	283	18:44
2024	Apr	24	(Wed)	05:25	05:47	76	12:04	89S	18:22	284	18:44
2024	Apr	25	(Thu)	05:24	05:46	76	12:04	89S	18:22	284	18:44
2024	Apr	26	(Fri)	05:23	05:46	76	12:04	89S	18:22	284	18:44
2024	Apr	27	(Sat)	05:23	05:45	75	12:04	90S	18:22	285	18:45
2024	Apr	28	(Sun)	05:22	05:45	75	12:04	90S	18:23	285	18:45
2024	Apr	29	(Mon)	05:22	05:44	75	12:03	90S	18:23	285	18:45
2024	Apr	30	(Tue)	05:21	05:44	74	12:03	91N	18:23	286	18:45
2024	May	01	(Wed)	05:21	05:43	74	12:03	90N	18:23	286	18:46
2024	May	02	(Thu)	05:20	05:43	74	12:03	90N	18:24	286	18:46
2024	May	03	(Fri)	05:20	05:42	73	12:03	90N	18:24	287	18:46
2024	May	04	(Sat)	05:19	05:42	73	12:03	89N	18:24	287	18:47
2024	May	05	(Sun)	05:19	05:41	73	12:03	89N	18:24	287	18:47
2024	May	06	(Mon)	05:18	05:41	73	12:03	89N	18:25	288	18:47
2024	May	07	(Tue)	05:18	05:41	72	12:03	89N	18:25	288	18:47
2024	May	08	(Wed)	05:18	05:40	72	12:03	88N	18:25	288	18:48
2024	May	09	(Thu)	05:17	05:40	72	12:02	88N	18:25	288	18:48
2024	May	10	(Fri)	05:17	05:39	71	12:02	88N	18:26	289	18:48
2024	May	11	(Sat)	05:16	05:39	71	12:02	88N	18:26	289	18:49
2024	May	12	(Sun)	05:16	05:39	71	12:02	87N	18:26	289	18:49
2024	May	13	(Mon)	05:16	05:38	71	12:02	87N	18:27	289	18:49
2024	May	14	(Tue)	05:15	05:38	70	12:02	87N	18:27	290	18:50
2024	May	15	(Wed)	05:15	05:38	70	12:02	87N	18:27	290	18:50
2024	May	16	(Thu)	05:15	05:38	70	12:02	86N	18:27	290	18:50
2024	May	17	(Fri)	05:14	05:37	70	12:02	86N	18:28	290	18:51
2024	May	18	(Sat)	05:14	05:37	69	12:02	86N	18:28	291	18:51
2024	May	19	(Sun)	05:14	05:37	69	12:03	86N	18:28	291	18:51
2024	May	20	(Mon)	05:14	05:37	69	12:03	86N	18:29	291	18:52
2024	May	21	(Tue)	05:13	05:36	69	12:03	85N	18:29	291	18:52
2024	May	22	(Wed)	05:13	05:36	69	12:03	85N	18:29	292	18:52
2024	May	23	(Thu)	05:13	05:36	68	12:03	85N	18:30	292	18:53
2024	May	24	(Fri)	05:13	05:36	68	12:03	85N	18:30	292	18:53
2024	May	25	(Sat)	05:13	05:36	68	12:03	85N	18:30	292	18:53
2024	May	26	(Sun)	05:13	05:36	68	12:03	84N	18:31	292	18:54
2024	May	27	(Mon)	05:12	05:36	68	12:03	84N	18:31	292	18:54
2024	May	28	(Tue)	05:12	05:36	67	12:03	84N	18:31	293	18:55
2024	May	29	(Wed)	05:12	05:36	67	12:03	84N	18:32	293	18:55
2024	May	30	(Thu)	05:12	05:35	67	12:04	84N	18:32	293	18:55
2024	May	31	(Fri)	05:12	05:35	67	12:04	84N	18:32	293	18:56
2024	Jun	01	(Sat)	05:12	05:35	67	12:04	83N	18:33	293	18:56
2024	Jun	02	(Sun)	05:12	05:35	67	12:04	83N	18:33	293	18:56
2024	Jun	03	(Mon)	05:12	05:35	67	12:04	83N	18:33	293	18:57
2024	Jun	04	(Tue)	05:12	05:35	66	12:04	83N	18:34	294	18:57
2024	Jun	05	(Wed)	05:12	05:35	66	12:05	83N	18:34	294	18:57
2024	Jun	06	(Thu)	05:12	05:36	66	12:05	83N	18:34	294	18:58
2024	Jun	07	(Fri)	05:12	05:36	66	12:05	83N	18:34	294	18:58
2024	Jun	08	(Sat)	05:12	05:36	66	12:05	83N	18:35	294	18:58
2024	Jun	09	(Sun)	05:12	05:36	66	12:05	83N	18:35	294	18:59
2024	Jun	10	(Mon)	05:12	05:36	66	12:06	83N	18:35	294	18:59
2024	Jun	11	(Tue)	05:12	05:36	66	12:06	82N	18:36	294	18:59
2024	Jun	12	(Wed)	05:12	05:36	66	12:06	82N	18:36	294	19:00
2024	Jun	13	(Thu)	05:13	05:36	66	12:06	82N	18:36	294	19:00
2024	Jun	14	(Fri)	05:13	05:36	66	12:06	82N	18:36	294	19:00
2024	Jun	15	(Sat)	05:13	05:36	66	12:07	82N	18:37	294	19:00
2024	Jun	16	(Sun)	05:13	05:37	66	12:07	82N	18:37	294	19:01
2024	Jun	17	(Mon)	05:13	05:37	66	12:07	82N	18:37	295	19:01
2024	Jun	18	(Tue)	05:13	05:37	65	12:07	82N	18:38	295	19:01
2024	Jun	19	(Wed)	05:14	05:37	65	12:07	82N	18:38	295	19:01
2024	Jun	20	(Thu)	05:14	05:37	65	12:08	82N	18:38	295	19:02
2024	Jun	21	(Fri)	05:14	05:38	65	12:08	82N	18:38	295	19:02
2024	Jun	22	(Sat)	05:14	05:38	65	12:08	82N	18:38	295	19:02
2024	Jun	23	(Sun)	05:14	05:38	65	12:08	82N	18:39	295	19:02
2024	Jun	24	(Mon)	05:15	05:38	65	12:09	82N	18:39	295	19:02
2024	Jun	25	(Tue)	05:15	05:39	66	12:09	82N	18:39	294	19:03
2024	Jun	26	(Wed)	05:15	05:39	66	12:09	82N	18:39	294	19:03
2024	Jun	27	(Thu)	05:15	05:39	66	12:09	82N	18:39	294	19:03
2024	Jun	28	(Fri)	05:16	05:39	66	12:09	82N	18:39	294	19:03
2024	Jun	29	(Sat)	05:16	05:40	66	12:10	82N	18:40	294	19:03
2024	Jun	30	(Sun)	05:16	05:40	66	12:10	82N	18:40	294	19:03
2024	Jul	01	(Mon)	05:17	05:40	66	12:10	83N	18:40	294	19:03
2024	Jul	02	(Tue)	05:17	05:40	66	12:10	83N	18:40	294	19:03
2024	Jul	03	(Wed)	05:17	05:41	66	12:10	83N	18:40	294	19:03

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

2024	Sep	14	(Sat)	05:33	05:55	86	12:02	79S	18:08	273	18:30
2024	Sep	15	(Sun)	05:33	05:55	87	12:01	79S	18:07	273	18:29
2024	Sep	16	(Mon)	05:33	05:55	87	12:01	78S	18:07	273	18:28
2024	Sep	17	(Tue)	05:33	05:55	88	12:00	78S	18:06	272	18:27
2024	Sep	18	(Wed)	05:33	05:55	88	12:00	78S	18:05	272	18:27
2024	Sep	19	(Thu)	05:34	05:55	88	12:00	77S	18:04	271	18:26
2024	Sep	20	(Fri)	05:34	05:55	89	11:59	77S	18:04	271	18:25
2024	Sep	21	(Sat)	05:34	05:55	89	11:59	76S	18:03	271	18:24
2024	Sep	22	(Sun)	05:34	05:55	90	11:59	76S	18:02	270	18:23
2024	Sep	23	(Mon)	05:34	05:55	90	11:58	76S	18:01	270	18:23
2024	Sep	24	(Tue)	05:34	05:55	90	11:58	75S	18:01	269	18:22
2024	Sep	25	(Wed)	05:34	05:55	91	11:58	75S	18:00	269	18:21
2024	Sep	26	(Thu)	05:34	05:55	91	11:57	74S	17:59	269	18:20
2024	Sep	27	(Fri)	05:34	05:55	92	11:57	74S	17:58	268	18:20
2024	Sep	28	(Sat)	05:34	05:56	92	11:57	74S	17:58	268	18:19
2024	Sep	29	(Sun)	05:34	05:56	92	11:56	73S	17:57	267	18:18
2024	Sep	30	(Mon)	05:34	05:56	93	11:56	73S	17:56	267	18:17
2024	Oct	01	(Tue)	05:34	05:56	93	11:56	72S	17:55	267	18:17
2024	Oct	02	(Wed)	05:34	05:56	94	11:55	72S	17:55	266	18:16
2024	Oct	03	(Thu)	05:35	05:56	94	11:55	72S	17:54	266	18:15
2024	Oct	04	(Fri)	05:35	05:56	94	11:55	71S	17:53	265	18:15
2024	Oct	05	(Sat)	05:35	05:56	95	11:54	71S	17:52	265	18:14
2024	Oct	06	(Sun)	05:35	05:56	95	11:54	71S	17:52	265	18:13
2024	Oct	07	(Mon)	05:35	05:56	96	11:54	70S	17:51	264	18:12
2024	Oct	08	(Tue)	05:35	05:57	96	11:54	70S	17:50	264	18:12
2024	Oct	09	(Wed)	05:35	05:57	96	11:53	69S	17:50	263	18:11
2024	Oct	10	(Thu)	05:35	05:57	97	11:53	69S	17:49	263	18:10
2024	Oct	11	(Fri)	05:35	05:57	97	11:53	69S	17:48	263	18:10
2024	Oct	12	(Sat)	05:36	05:57	98	11:52	68S	17:48	262	18:09
2024	Oct	13	(Sun)	05:36	05:57	98	11:52	68S	17:47	262	18:09
2024	Oct	14	(Mon)	05:36	05:57	98	11:52	68S	17:46	262	18:08
2024	Oct	15	(Tue)	05:36	05:58	99	11:52	67S	17:46	261	18:07
2024	Oct	16	(Wed)	05:36	05:58	99	11:52	67S	17:45	261	18:07
2024	Oct	17	(Thu)	05:36	05:58	99	11:51	66S	17:45	260	18:06
2024	Oct	18	(Fri)	05:36	05:58	100	11:51	66S	17:44	260	18:06
2024	Oct	19	(Sat)	05:37	05:58	100	11:51	66S	17:43	260	18:05
2024	Oct	20	(Sun)	05:37	05:59	101	11:51	65S	17:43	259	18:05
2024	Oct	21	(Mon)	05:37	05:59	101	11:51	65S	17:42	259	18:04
2024	Oct	22	(Tue)	05:37	05:59	101	11:50	65S	17:42	259	18:04
2024	Oct	23	(Wed)	05:37	05:59	102	11:50	64S	17:41	258	18:03
2024	Oct	24	(Thu)	05:38	05:59	102	11:50	64S	17:41	258	18:03
2024	Oct	25	(Fri)	05:38	06:00	102	11:50	64S	17:40	257	18:02
2024	Oct	26	(Sat)	05:38	06:00	103	11:50	63S	17:40	257	18:02
2024	Oct	27	(Sun)	05:38	06:00	103	11:50	63S	17:39	257	18:01
2024	Oct	28	(Mon)	05:39	06:01	103	11:50	63S	17:39	256	18:01
2024	Oct	29	(Tue)	05:39	06:01	104	11:50	62S	17:38	256	18:00
2024	Oct	30	(Wed)	05:39	06:01	104	11:50	62S	17:38	256	18:00
2024	Oct	31	(Thu)	05:39	06:01	104	11:50	62S	17:38	255	18:00
2024	Nov	01	(Fri)	05:40	06:02	105	11:50	61S	17:37	255	17:59
2024	Nov	02	(Sat)	05:40	06:02	105	11:50	61S	17:37	255	17:59
2024	Nov	03	(Sun)	05:40	06:03	105	11:50	61S	17:37	254	17:59
2024	Nov	04	(Mon)	05:41	06:03	106	11:50	60S	17:36	254	17:58
2024	Nov	05	(Tue)	05:41	06:03	106	11:50	60S	17:36	254	17:58
2024	Nov	06	(Wed)	05:41	06:04	106	11:50	60S	17:36	253	17:58
2024	Nov	07	(Thu)	05:42	06:04	107	11:50	59S	17:35	253	17:58
2024	Nov	08	(Fri)	05:42	06:04	107	11:50	59S	17:35	253	17:57
2024	Nov	09	(Sat)	05:42	06:05	107	11:50	59S	17:35	253	17:57
2024	Nov	10	(Sun)	05:43	06:05	108	11:50	59S	17:35	252	17:57
2024	Nov	11	(Mon)	05:43	06:06	108	11:50	58S	17:34	252	17:57
2024	Nov	12	(Tue)	05:44	06:06	108	11:50	58S	17:34	252	17:57
2024	Nov	13	(Wed)	05:44	06:07	108	11:50	58S	17:34	251	17:56
2024	Nov	14	(Thu)	05:44	06:07	109	11:50	57S	17:34	251	17:56
2024	Nov	15	(Fri)	05:45	06:07	109	11:51	57S	17:34	251	17:56
2024	Nov	16	(Sat)	05:45	06:08	109	11:51	57S	17:34	251	17:56
2024	Nov	17	(Sun)	05:46	06:08	109	11:51	57S	17:34	250	17:56
2024	Nov	18	(Mon)	05:46	06:09	110	11:51	56S	17:33	250	17:56
2024	Nov	19	(Tue)	05:47	06:09	110	11:51	56S	17:33	250	17:56
2024	Nov	20	(Wed)	05:47	06:10	110	11:52	56S	17:33	250	17:56
2024	Nov	21	(Thu)	05:48	06:10	110	11:52	56S	17:33	249	17:56
2024	Nov	22	(Fri)	05:48	06:11	111	11:52	56S	17:33	249	17:56
2024	Nov	23	(Sat)	05:49	06:11	111	11:52	55S	17:33	249	17:56
2024	Nov	24	(Sun)	05:49	06:12	111	11:53	55S	17:33	249	17:56

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

Moon

Surin

Location: E103°29'23.9", N14°53'02.4", 0m
(Longitude referred to Greenwich meridian)

Time Zone: 7h 00m east of Greenwich

Date (Zone)	Rise		Az.	Transit		Alt.	Set		Az.
	h	m		h	m		h	m	
2024	Jan	01	(Mon)	22:17	80	03:57	89S	10:20	282
2024	Jan	02	(Tue)	23:03	86	04:37	84S	10:54	277
2024	Jan	03	(Wed)	23:48	92	05:16	78S	11:27	271
2024	Jan	04	(Thu)			05:55	72S	12:00	265
2024	Jan	05	(Fri)	00:35	98	06:36	66S	12:34	259
2024	Jan	06	(Sat)	01:23	104	07:19	61S	13:11	253
2024	Jan	07	(Sun)	02:15	109	08:05	55S	13:53	248
2024	Jan	08	(Mon)	03:11	114	08:57	51S	14:41	244
2024	Jan	09	(Tue)	04:12	117	09:54	48S	15:35	242
2024	Jan	10	(Wed)	05:15	119	10:56	47S	16:37	241
2024	Jan	11	(Thu)	06:18	119	11:59	48S	17:42	242
2024	Jan	12	(Fri)	07:18	116	13:02	51S	18:49	246
2024	Jan	13	(Sat)	08:13	112	14:02	55S	19:54	251
2024	Jan	14	(Sun)	09:02	106	14:57	61S	20:56	257
2024	Jan	15	(Mon)	09:47	99	15:49	68S	21:54	264
2024	Jan	16	(Tue)	10:28	92	16:38	75S	22:51	272
2024	Jan	17	(Wed)	11:09	85	17:25	82S	23:46	279
2024	Jan	18	(Thu)	11:49	78	18:13	89S		
2024	Jan	19	(Fri)	12:31	72	19:03	87N	00:41	285
2024	Jan	20	(Sat)	13:16	67	19:54	82N	01:38	291
2024	Jan	21	(Sun)	14:05	63	20:48	79N	02:35	295
2024	Jan	22	(Mon)	14:57	61	21:43	77N	03:33	298
2024	Jan	23	(Tue)	15:51	61	22:38	77N	04:31	299

2024	Jan	24	(Wed)	16:47	62	23:32	79N	05:25	299
2024	Jan	25	(Thu)	17:42	65			06:15	297
2024	Jan	26	(Fri)	18:34	68	00:22	82N	07:00	294
2024	Jan	27	(Sat)	19:24	73	01:09	86N	07:41	289
2024	Jan	28	(Sun)	20:12	78	01:53	91N	08:18	284
2024	Jan	29	(Mon)	20:58	84	02:34	86S	08:53	279
2024	Jan	30	(Tue)	21:43	90	03:14	80S	09:26	273
2024	Jan	31	(Wed)	22:29	96	03:52	74S	09:58	267
2024	Feb	01	(Thu)	23:15	102	04:32	68S	10:32	261
2024	Feb	02	(Fri)			05:13	63S	11:07	255
2024	Feb	03	(Sat)	00:05	107	05:57	57S	11:46	250
2024	Feb	04	(Sun)	00:58	112	06:45	53S	12:30	246
2024	Feb	05	(Mon)	01:54	116	07:38	49S	13:19	242
2024	Feb	06	(Tue)	02:55	119	08:36	47S	14:16	241
2024	Feb	07	(Wed)	03:57	119	09:38	47S	15:19	241
2024	Feb	08	(Thu)	04:58	118	10:41	49S	16:25	243
2024	Feb	09	(Fri)	05:56	114	11:43	53S	17:32	248
2024	Feb	10	(Sat)	06:49	109	12:41	58S	18:37	254
2024	Feb	11	(Sun)	07:37	102	13:36	65S	19:39	261
2024	Feb	12	(Mon)	08:21	95	14:28	72S	20:38	269
2024	Feb	13	(Tue)	09:04	88	15:18	80S	21:36	276
2024	Feb	14	(Wed)	09:45	80	16:08	87S	22:34	283
2024	Feb	15	(Thu)	10:28	74	16:58	88N	23:31	289
2024	Feb	16	(Fri)	11:13	68	17:50	83N		
2024	Feb	17	(Sat)	12:01	64	18:44	80N	00:30	294
2024	Feb	18	(Sun)	12:53	62	19:39	78N	01:29	297
2024	Feb	19	(Mon)	13:47	61	20:34	77N	02:26	299
2024	Feb	20	(Tue)	14:42	61	21:28	78N	03:21	299
2024	Feb	21	(Wed)	15:36	63	22:19	81N	04:12	298
2024	Feb	22	(Thu)	16:29	67	23:06	84N	04:59	295
2024	Feb	23	(Fri)	17:20	71	23:51	89N	05:41	291
2024	Feb	24	(Sat)	18:08	77			06:19	286
2024	Feb	25	(Sun)	18:55	82	00:33	87S	06:54	281
2024	Feb	26	(Mon)	19:40	88	01:13	82S	07:27	275
2024	Feb	27	(Tue)	20:25	94	01:51	76S	07:59	269
2024	Feb	28	(Wed)	21:11	100	02:30	70S	08:32	263
2024	Feb	29	(Thu)	21:59	106	03:10	64S	09:07	257
2024	Mar	01	(Fri)	22:50	111	03:53	59S	09:43	252
2024	Mar	02	(Sat)	23:44	115	04:38	54S	10:24	247
2024	Mar	03	(Sun)			05:28	50S	11:10	243
2024	Mar	04	(Mon)	00:42	118	06:23	48S	12:03	241
2024	Mar	05	(Tue)	01:41	120	07:21	47S	13:01	240
2024	Mar	06	(Wed)	02:41	119	08:22	48S	14:04	242
2024	Mar	07	(Thu)	03:39	117	09:23	50S	15:09	245
2024	Mar	08	(Fri)	04:33	112	10:22	55S	16:14	250
2024	Mar	09	(Sat)	05:23	106	11:18	61S	17:17	257
2024	Mar	10	(Sun)	06:09	99	12:12	68S	18:18	265
2024	Mar	11	(Mon)	06:53	92	13:04	76S	19:18	272
2024	Mar	12	(Tue)	07:36	84	13:55	84S	20:18	280
2024	Mar	13	(Wed)	08:20	77	14:47	90S	21:17	287
2024	Mar	14	(Thu)	09:05	70	15:40	85N	22:18	292
2024	Mar	15	(Fri)	09:54	65	16:35	81N	23:19	297
2024	Mar	16	(Sat)	10:46	62	17:32	78N		
2024	Mar	17	(Sun)	11:40	61	18:28	77N	00:19	299
2024	Mar	18	(Mon)	12:36	61	19:23	77N	01:16	300
2024	Mar	19	(Tue)	13:32	62	20:16	80N	02:09	299
2024	Mar	20	(Wed)	14:25	66	21:04	83N	02:57	296
2024	Mar	21	(Thu)	15:17	70	21:50	87N	03:40	292
2024	Mar	22	(Fri)	16:05	75	22:32	89S	04:19	288
2024	Mar	23	(Sat)	16:52	80	23:12	84S	04:55	282
2024	Mar	24	(Sun)	17:38	86	23:51	78S	05:29	277
2024	Mar	25	(Mon)	18:23	92			06:01	271
2024	Mar	26	(Tue)	19:09	98	00:30	72S	06:34	265
2024	Mar	27	(Wed)	19:56	104	01:10	66S	07:08	259
2024	Mar	28	(Thu)	20:46	109	01:51	61S	07:44	253
2024	Mar	29	(Fri)	21:39	114	02:36	56S	08:23	248
2024	Mar	30	(Sat)	22:35	117	03:24	51S	09:07	244
2024	Mar	31	(Sun)	23:33	119	04:16	48S	09:57	242
2024	Apr	01	(Mon)			05:12	47S	10:52	240
2024	Apr	02	(Tue)	00:31	120	06:11	47S	11:51	241
2024	Apr	03	(Wed)	01:28	118	07:10	49S	12:53	243
2024	Apr	04	(Thu)	02:22	114	08:08	53S	13:56	248

2024 Apr 05 (Fri)	03:12 109	09:03 58S	14:58 254
2024 Apr 06 (Sat)	03:58 103	09:56 65S	15:58 261
2024 Apr 07 (Sun)	04:42 96	10:48 72S	16:58 268
2024 Apr 08 (Mon)	05:25 88	11:39 80S	17:57 276
2024 Apr 09 (Tue)	06:08 80	12:31 87S	18:57 283
2024 Apr 10 (Wed)	06:53 74	13:24 88N	19:59 290
2024 Apr 11 (Thu)	07:42 68	14:20 83N	21:02 295
2024 Apr 12 (Fri)	08:34 63	15:18 79N	22:05 298
2024 Apr 13 (Sat)	09:29 61	16:17 77N	23:05 300
2024 Apr 14 (Sun)	10:26 60	17:14 77N	
2024 Apr 15 (Mon)	11:23 62	18:09 79N	00:02 299
2024 Apr 16 (Tue)	12:19 64	19:00 82N	00:53 297
2024 Apr 17 (Wed)	13:12 68	19:47 86N	01:38 294
2024 Apr 18 (Thu)	14:01 73	20:30 90N	02:19 289
2024 Apr 19 (Fri)	14:49 78	21:11 86S	02:55 284
2024 Apr 20 (Sat)	15:35 84	21:50 80S	03:30 279
2024 Apr 21 (Sun)	16:20 90	22:29 74S	04:03 273
2024 Apr 22 (Mon)	17:06 96	23:09 68S	04:35 267
2024 Apr 23 (Tue)	17:53 102	23:50 62S	05:09 261
2024 Apr 24 (Wed)	18:42 108		05:44 255
2024 Apr 25 (Thu)	19:34 112	00:34 57S	06:23 250
2024 Apr 26 (Fri)	20:30 116	01:21 53S	07:06 246
2024 Apr 27 (Sat)	21:28 119	02:13 49S	07:54 242
2024 Apr 28 (Sun)	22:26 120	03:08 47S	08:47 241
2024 Apr 29 (Mon)	23:23 119	04:05 47S	09:45 241
2024 Apr 30 (Tue)		05:04 48S	10:46 242
2024 May 01 (Wed)	00:17 116	06:01 51S	11:47 246
2024 May 02 (Thu)	01:06 111	06:55 56S	12:47 251
2024 May 03 (Fri)	01:52 106	07:47 62S	13:46 258
2024 May 04 (Sat)	02:35 99	08:37 69S	14:44 265
2024 May 05 (Sun)	03:17 91	09:27 76S	15:41 272
2024 May 06 (Mon)	03:58 84	10:17 83S	16:39 280
2024 May 07 (Tue)	04:42 77	11:08 90S	17:39 287
2024 May 08 (Wed)	05:28 71	12:03 85N	18:41 292
2024 May 09 (Thu)	06:19 65	13:00 81N	19:45 297
2024 May 10 (Fri)	07:13 62	14:00 78N	20:48 299
2024 May 11 (Sat)	08:11 61	15:00 77N	21:48 299
2024 May 12 (Sun)	09:10 61	15:57 78N	22:43 298
2024 May 13 (Mon)	10:08 63	16:51 80N	23:32 295
2024 May 14 (Tue)	11:03 67	17:41 84N	
2024 May 15 (Wed)	11:55 71	18:26 89N	00:15 291
2024 May 16 (Thu)	12:43 76	19:08 88S	00:54 286
2024 May 17 (Fri)	13:30 82	19:48 82S	01:29 281
2024 May 18 (Sat)	14:15 88	20:27 76S	02:02 275
2024 May 19 (Sun)	15:01 94	21:06 70S	02:35 269
2024 May 20 (Mon)	15:47 100	21:46 64S	03:08 263
2024 May 21 (Tue)	16:36 106	22:29 59S	03:43 257
2024 May 22 (Wed)	17:27 111	23:16 54S	04:20 252
2024 May 23 (Thu)	18:22 115		05:02 247
2024 May 24 (Fri)	19:20 118	00:06 50S	05:49 243
2024 May 25 (Sat)	20:19 119	01:01 48S	06:41 241
2024 May 26 (Sun)	21:18 119	01:59 47S	07:39 241
2024 May 27 (Mon)	22:13 117	02:58 48S	08:40 242
2024 May 28 (Tue)	23:04 113	03:56 50S	09:41 245
2024 May 29 (Wed)	23:51 107	04:52 55S	10:42 250
2024 May 30 (Thu)		05:44 60S	11:40 256
2024 May 31 (Fri)	00:34 101	06:33 67S	12:37 262
2024 Jun 01 (Sat)	01:14 94	07:22 74S	13:33 270
2024 Jun 02 (Sun)	01:55 87	08:10 81S	14:29 277
2024 Jun 03 (Mon)	02:36 80	08:59 88S	15:26 284
2024 Jun 04 (Tue)	03:20 73	09:51 88N	16:26 290
2024 Jun 05 (Wed)	04:07 68	10:46 83N	17:28 295
2024 Jun 06 (Thu)	04:59 63	11:44 79N	18:31 298
2024 Jun 07 (Fri)	05:56 61	12:44 77N	19:32 299
2024 Jun 08 (Sat)	06:55 61	13:43 77N	20:30 299
2024 Jun 09 (Sun)	07:54 62	14:39 79N	21:22 296
2024 Jun 10 (Mon)	08:51 65	15:31 82N	22:09 293
2024 Jun 11 (Tue)	09:45 69	16:19 87N	22:50 288
2024 Jun 12 (Wed)	10:36 74	17:03 90S	23:27 283
2024 Jun 13 (Thu)	11:23 80	17:44 84S	
2024 Jun 14 (Fri)	12:09 86	18:23 78S	00:01 277
2024 Jun 15 (Sat)	12:54 92	19:02 72S	00:34 271

2024 Jun 16 (Sun)	13:40 98	19:41 67S	01:06 265
2024 Jun 17 (Mon)	14:27 104	20:23 61S	01:40 259
2024 Jun 18 (Tue)	15:18 109	21:08 56S	02:16 254
2024 Jun 19 (Wed)	16:11 114	21:57 52S	02:56 249
2024 Jun 20 (Thu)	17:08 117	22:51 49S	03:41 245
2024 Jun 21 (Fri)	18:08 119	23:48 47S	04:32 242
2024 Jun 22 (Sat)	19:08 119		05:28 241
2024 Jun 23 (Sun)	20:06 118	00:48 47S	06:29 241
2024 Jun 24 (Mon)	21:00 114	01:48 49S	07:32 244
2024 Jun 25 (Tue)	21:48 109	02:46 53S	08:35 248
2024 Jun 26 (Wed)	22:33 103	03:40 58S	09:35 254
2024 Jun 27 (Thu)	23:14 96	04:31 65S	10:33 261
2024 Jun 28 (Fri)	23:55 89	05:20 72S	11:29 268
2024 Jun 29 (Sat)		06:07 79S	12:24 275
2024 Jun 30 (Sun)	00:35 82	06:55 86S	13:20 282
2024 Jul 01 (Mon)	01:17 75	07:45 89N	14:17 288
2024 Jul 02 (Tue)	02:02 69	08:38 84N	15:17 293
2024 Jul 03 (Wed)	02:51 65	09:33 80N	16:18 297
2024 Jul 04 (Thu)	03:45 62	10:32 78N	17:20 299
2024 Jul 05 (Fri)	04:42 61	11:31 77N	18:19 299
2024 Jul 06 (Sat)	05:41 61	12:28 78N	19:13 298
2024 Jul 07 (Sun)	06:39 64	13:22 81N	20:02 294
2024 Jul 08 (Mon)	07:35 68	14:11 85N	20:45 290
2024 Jul 09 (Tue)	08:27 72	14:57 90N	21:23 285
2024 Jul 10 (Wed)	09:16 78	15:39 86S	21:59 279
2024 Jul 11 (Thu)	10:03 84	16:19 80S	22:32 273
2024 Jul 12 (Fri)	10:48 90	16:58 75S	23:05 267
2024 Jul 13 (Sat)	11:33 96	17:37 69S	23:37 262
2024 Jul 14 (Sun)	12:20 101	18:17 63S	
2024 Jul 15 (Mon)	13:08 107	19:00 58S	00:12 256
2024 Jul 16 (Tue)	13:59 112	19:47 53S	00:50 251
2024 Jul 17 (Wed)	14:55 116	20:38 50S	01:32 246
2024 Jul 18 (Thu)	15:53 119	21:34 47S	02:20 243
2024 Jul 19 (Fri)	16:53 120	22:33 47S	03:14 241
2024 Jul 20 (Sat)	17:53 119	23:34 48S	04:14 241
2024 Jul 21 (Sun)	18:49 116		05:17 242
2024 Jul 22 (Mon)	19:41 111	00:34 51S	06:21 246
2024 Jul 23 (Tue)	20:29 105	01:31 56S	07:24 252
2024 Jul 24 (Wed)	21:12 98	02:25 62S	08:24 258
2024 Jul 25 (Thu)	21:54 91	03:15 69S	09:22 266
2024 Jul 26 (Fri)	22:34 84	04:04 77S	10:19 273
2024 Jul 27 (Sat)	23:16 77	04:53 84S	11:15 280
2024 Jul 28 (Sun)	24:00 71	05:42 90S	12:13 287
2024 Jul 29 (Mon)		06:34 85N	13:11 292
2024 Jul 30 (Tue)	00:48 66	07:28 81N	14:12 296
2024 Jul 31 (Wed)	01:39 62	08:25 78N	15:12 299
2024 Aug 01 (Thu)	02:35 61	09:23 77N	16:11 300
2024 Aug 02 (Fri)	03:33 61	10:20 78N	17:06 298
2024 Aug 03 (Sat)	04:30 63	11:15 80N	17:56 296
2024 Aug 04 (Sun)	05:26 66	12:05 83N	18:41 292
2024 Aug 05 (Mon)	06:20 70	12:52 88N	19:21 287
2024 Aug 06 (Tue)	07:10 76	13:35 88S	19:57 281
2024 Aug 07 (Wed)	07:57 81	14:16 82S	20:31 275
2024 Aug 08 (Thu)	08:43 87	14:55 77S	21:04 270
2024 Aug 09 (Fri)	09:28 93	15:34 71S	21:36 264
2024 Aug 10 (Sat)	10:14 99	16:13 65S	22:10 258
2024 Aug 11 (Sun)	11:01 105	16:55 60S	22:46 253
2024 Aug 12 (Mon)	11:50 110	17:39 55S	23:25 248
2024 Aug 13 (Tue)	12:43 114	18:27 51S	
2024 Aug 14 (Wed)	13:39 118	19:20 48S	00:10 244
2024 Aug 15 (Thu)	14:37 119	20:17 47S	01:00 241
2024 Aug 16 (Fri)	15:36 119	21:16 47S	01:56 240
2024 Aug 17 (Sat)	16:34 117	22:17 49S	02:57 241
2024 Aug 18 (Sun)	17:28 114	23:16 54S	04:01 244
2024 Aug 19 (Mon)	18:18 108		05:06 249
2024 Aug 20 (Tue)	19:04 101	00:12 59S	06:08 255
2024 Aug 21 (Wed)	19:48 94	01:05 66S	07:09 262
2024 Aug 22 (Thu)	20:30 86	01:56 74S	08:08 270
2024 Aug 23 (Fri)	21:13 79	02:46 81S	09:06 278
2024 Aug 24 (Sat)	21:57 72	03:37 88S	10:05 285
2024 Aug 25 (Sun)	22:44 67	04:29 87N	11:05 291
2024 Aug 26 (Mon)	23:36 63	05:24 82N	12:06 295

2024 Aug 27 (Tue)		06:20 79N	13:07 298
2024 Aug 28 (Wed)	00:30 61	07:18 77N	14:07 300
2024 Aug 29 (Thu)	01:27 60	08:15 77N	15:03 299
2024 Aug 30 (Fri)	02:25 62	09:10 79N	15:54 297
2024 Aug 31 (Sat)	03:21 65	10:02 82N	16:39 293
2024 Sep 01 (Sun)	04:15 69	10:49 86N	17:20 289
2024 Sep 02 (Mon)	05:05 74	11:33 90S	17:57 283
2024 Sep 03 (Tue)	05:53 79	12:14 84S	18:32 278
2024 Sep 04 (Wed)	06:39 85	12:54 79S	19:05 272
2024 Sep 05 (Thu)	07:25 91	13:32 73S	19:37 266
2024 Sep 06 (Fri)	08:10 97	14:11 67S	20:10 260
2024 Sep 07 (Sat)	08:56 103	14:52 61S	20:45 254
2024 Sep 08 (Sun)	09:44 108	15:35 56S	21:22 249
2024 Sep 09 (Mon)	10:35 113	16:21 52S	22:04 245
2024 Sep 10 (Tue)	11:29 117	17:10 49S	22:51 242
2024 Sep 11 (Wed)	12:25 119	18:04 47S	23:43 240
2024 Sep 12 (Thu)	13:22 120	19:01 47S	
2024 Sep 13 (Fri)	14:19 119	20:00 48S	00:41 240
2024 Sep 14 (Sat)	15:14 116	20:58 51S	01:42 242
2024 Sep 15 (Sun)	16:05 111	21:55 56S	02:45 246
2024 Sep 16 (Mon)	16:52 105	22:49 63S	03:48 252
2024 Sep 17 (Tue)	17:37 98	23:41 70S	04:49 258
2024 Sep 18 (Wed)	18:21 90		05:49 266
2024 Sep 19 (Thu)	19:04 82	00:33 78S	06:49 274
2024 Sep 20 (Fri)	19:49 75	01:25 85S	07:49 282
2024 Sep 21 (Sat)	20:37 69	02:18 89N	08:51 288
2024 Sep 22 (Sun)	21:28 64	03:14 84N	09:54 294
2024 Sep 23 (Mon)	22:23 61	04:12 80N	10:58 298
2024 Sep 24 (Tue)	23:21 60	05:11 77N	12:00 300
2024 Sep 25 (Wed)		06:10 77N	12:58 300
2024 Sep 26 (Thu)	00:19 61	07:06 78N	13:51 298
2024 Sep 27 (Fri)	01:16 64	07:59 81N	14:39 294
2024 Sep 28 (Sat)	02:11 67	08:47 85N	15:21 290
2024 Sep 29 (Sun)	03:02 72	09:32 90N	15:59 285
2024 Sep 30 (Mon)	03:51 78	10:14 86S	16:34 279
2024 Oct 01 (Tue)	04:37 83	10:53 81S	17:07 274
2024 Oct 02 (Wed)	05:22 89	11:32 75S	17:39 268
2024 Oct 03 (Thu)	06:07 95	12:11 69S	18:12 262
2024 Oct 04 (Fri)	06:53 101	12:51 63S	18:46 256
2024 Oct 05 (Sat)	07:41 107	13:33 58S	19:22 251
2024 Oct 06 (Sun)	08:31 112	14:18 53S	20:02 246
2024 Oct 07 (Mon)	09:23 116	15:06 50S	20:47 243
2024 Oct 08 (Tue)	10:18 118	15:58 47S	21:37 241
2024 Oct 09 (Wed)	11:14 120	16:53 46S	22:31 240
2024 Oct 10 (Thu)	12:10 119	17:49 47S	23:29 241
2024 Oct 11 (Fri)	13:03 117	18:46 50S	
2024 Oct 12 (Sat)	13:54 113	19:41 54S	00:30 244
2024 Oct 13 (Sun)	14:42 108	20:34 59S	01:30 249
2024 Oct 14 (Mon)	15:26 102	21:26 66S	02:30 255
2024 Oct 15 (Tue)	16:09 94	22:17 73S	03:29 262
2024 Oct 16 (Wed)	16:52 86	23:08 81S	04:28 270
2024 Oct 17 (Thu)	17:36 79		05:28 277
2024 Oct 18 (Fri)	18:23 72	00:01 88S	06:30 285
2024 Oct 19 (Sat)	19:14 66	00:57 86N	07:34 291
2024 Oct 20 (Sun)	20:10 62	01:55 81N	08:40 296
2024 Oct 21 (Mon)	21:09 60	02:57 78N	09:45 299
2024 Oct 22 (Tue)	22:09 61	03:58 77N	10:47 300
2024 Oct 23 (Wed)	23:09 63	04:58 77N	11:44 299
2024 Oct 24 (Thu)		05:53 80N	12:35 296
2024 Oct 25 (Fri)	00:05 66	06:44 83N	13:19 292
2024 Oct 26 (Sat)	00:58 71	07:30 88N	13:59 287
2024 Oct 27 (Sun)	01:48 76	08:13 88S	14:35 281
2024 Oct 28 (Mon)	02:35 82	08:53 82S	15:08 275
2024 Oct 29 (Tue)	03:20 87	09:32 77S	15:41 270
2024 Oct 30 (Wed)	04:05 94	10:11 71S	16:13 264
2024 Oct 31 (Thu)	04:50 99	10:50 65S	16:47 258
2024 Nov 01 (Fri)	05:37 105	11:31 60S	17:23 252
2024 Nov 02 (Sat)	06:27 110	12:16 55S	18:02 248
2024 Nov 03 (Sun)	07:19 114	13:03 51S	18:45 244
2024 Nov 04 (Mon)	08:13 118	13:54 48S	19:34 241
2024 Nov 05 (Tue)	09:09 119	14:48 47S	20:27 240
2024 Nov 06 (Wed)	10:05 120	15:44 47S	21:23 241

2024 Nov 07 (Thu)	10:58 118	16:39 49S	22:22 243
2024 Nov 08 (Fri)	11:49 115	17:34 52S	23:21 247
2024 Nov 09 (Sat)	12:36 110	18:26 57S	
2024 Nov 10 (Sun)	13:20 104	19:16 63S	00:19 253
2024 Nov 11 (Mon)	14:02 97	20:05 70S	01:16 259
2024 Nov 12 (Tue)	14:43 90	20:54 77S	02:13 266
2024 Nov 13 (Wed)	15:25 83	21:45 85S	03:10 274
2024 Nov 14 (Thu)	16:09 76	22:38 90N	04:09 281
2024 Nov 15 (Fri)	16:58 69	23:35 84N	05:11 288
2024 Nov 16 (Sat)	17:52 64		06:16 294
2024 Nov 17 (Sun)	18:50 61	00:36 80N	07:23 298
2024 Nov 18 (Mon)	19:52 60	01:39 77N	08:28 299
2024 Nov 19 (Tue)	20:54 62	02:41 77N	09:30 299
2024 Nov 20 (Wed)	21:54 65	03:41 79N	10:25 297
2024 Nov 21 (Thu)	22:50 69	04:35 82N	11:14 293
2024 Nov 22 (Fri)	23:41 74	05:24 86N	11:56 289
2024 Nov 23 (Sat)		06:09 90S	12:34 283
2024 Nov 24 (Sun)	00:30 80	06:51 84S	13:08 277
2024 Nov 25 (Mon)	01:16 85	07:30 79S	13:41 272
2024 Nov 26 (Tue)	02:01 91	08:09 73S	14:13 266
2024 Nov 27 (Wed)	02:46 97	08:48 67S	14:47 260
2024 Nov 28 (Thu)	03:33 103	09:29 61S	15:22 254
2024 Nov 29 (Fri)	04:21 108	10:12 56S	16:00 249
2024 Nov 30 (Sat)	05:13 113	10:58 52S	16:42 245
2024 Dec 01 (Sun)	06:07 117	11:49 49S	17:30 242
2024 Dec 02 (Mon)	07:03 119	12:43 47S	18:22 241
2024 Dec 03 (Tue)	08:00 120	13:39 47S	19:18 241
2024 Dec 04 (Wed)	08:55 119	14:35 48S	20:17 243
2024 Dec 05 (Thu)	09:46 116	15:30 51S	21:16 246
2024 Dec 06 (Fri)	10:34 111	16:23 56S	22:14 251
2024 Dec 07 (Sat)	11:18 106	17:13 61S	23:10 257
2024 Dec 08 (Sun)	12:00 100	18:01 68S	
2024 Dec 09 (Mon)	12:39 93	18:48 75S	00:05 264
2024 Dec 10 (Tue)	13:19 85	19:36 82S	01:00 271
2024 Dec 11 (Wed)	14:01 78	20:26 89S	01:56 278
2024 Dec 12 (Thu)	14:46 72	21:19 87N	02:55 285
2024 Dec 13 (Fri)	15:36 66	22:17 82N	03:56 291
2024 Dec 14 (Sat)	16:32 63	23:18 78N	05:01 296
2024 Dec 15 (Sun)	17:32 61		06:07 299
2024 Dec 16 (Mon)	18:35 61	00:21 77N	07:11 299
2024 Dec 17 (Tue)	19:37 63	01:23 78N	08:10 298
2024 Dec 18 (Wed)	20:36 67	02:21 80N	09:03 295
2024 Dec 19 (Thu)	21:31 72	03:14 84N	09:49 291
2024 Dec 20 (Fri)	22:22 77	04:02 89N	10:29 285
2024 Dec 21 (Sat)	23:09 83	04:45 87S	11:06 280
2024 Dec 22 (Sun)	23:55 89	05:26 81S	11:39 274
2024 Dec 23 (Mon)		06:05 75S	12:12 268
2024 Dec 24 (Tue)	00:40 95	06:44 69S	12:45 262
2024 Dec 25 (Wed)	01:26 101	07:24 63S	13:19 256
2024 Dec 26 (Thu)	02:14 107	08:06 58S	13:56 251
2024 Dec 27 (Fri)	03:04 111	08:51 54S	14:36 247
2024 Dec 28 (Sat)	03:57 115	09:40 50S	15:22 243
2024 Dec 29 (Sun)	04:53 118	10:33 48S	16:13 241
2024 Dec 30 (Mon)	05:50 120	11:29 47S	17:09 240
2024 Dec 31 (Tue)	06:47 119	12:27 48S	18:08 242