

Sun

Ubon Ratchathani

Location: E104°53'38.4", N15°14'38.3", 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)	05:36	06:26	114	12:04 52S	17:41 246		18:31
2024	Jan	02 (Tue)	05:37	06:27	114	12:04 53S	17:41 246		18:31
2024	Jan	03 (Wed)	05:37	06:27	114	12:05 53S	17:42 247		18:32
2024	Jan	04 (Thu)	05:38	06:27	113	12:05 53S	17:43 247		18:33
2024	Jan	05 (Fri)	05:38	06:28	113	12:05 53S	17:43 247		18:33
2024	Jan	06 (Sat)	05:38	06:28	113	12:06 53S	17:44 247		18:34
2024	Jan	07 (Sun)	05:39	06:28	113	12:06 53S	17:44 247		18:34
2024	Jan	08 (Mon)	05:39	06:29	113	12:07 53S	17:45 247		18:35
2024	Jan	09 (Tue)	05:39	06:29	113	12:07 53S	17:46 247		18:35
2024	Jan	10 (Wed)	05:39	06:29	113	12:08 53S	17:46 247		18:36
2024	Jan	11 (Thu)	05:40	06:29	113	12:08 54S	17:47 248		18:36
2024	Jan	12 (Fri)	05:40	06:30	112	12:08 54S	17:47 248		18:37
2024	Jan	13 (Sat)	05:40	06:30	112	12:09 54S	17:48 248		18:37
2024	Jan	14 (Sun)	05:40	06:30	112	12:09 54S	17:49 248		18:38
2024	Jan	15 (Mon)	05:41	06:30	112	12:10 54S	17:49 248		18:39
2024	Jan	16 (Tue)	05:41	06:30	112	12:10 54S	17:50 248		18:39
2024	Jan	17 (Wed)	05:41	06:30	111	12:10 55S	17:50 249		18:40
2024	Jan	18 (Thu)	05:41	06:30	111	12:11 55S	17:51 249		18:40
2024	Jan	19 (Fri)	05:41	06:30	111	12:11 55S	17:51 249		18:41
2024	Jan	20 (Sat)	05:41	06:31	111	12:11 55S	17:52 249		18:41
2024	Jan	21 (Sun)	05:42	06:31	111	12:12 55S	17:53 250		18:42
2024	Jan	22 (Mon)	05:42	06:31	110	12:12 56S	17:53 250		18:42
2024	Jan	23 (Tue)	05:42	06:31	110	12:12 56S	17:54 250		18:42
2024	Jan	24 (Wed)	05:42	06:31	110	12:12 56S	17:54 250		18:43
2024	Jan	25 (Thu)	05:42	06:31	110	12:13 56S	17:55 250		18:43
2024	Jan	26 (Fri)	05:42	06:30	109	12:13 57S	17:55 251		18:44
2024	Jan	27 (Sat)	05:42	06:30	109	12:13 57S	17:56 251		18:44
2024	Jan	28 (Sun)	05:42	06:30	109	12:13 57S	17:56 251		18:45
2024	Jan	29 (Mon)	05:42	06:30	109	12:13 57S	17:57 252		18:45
2024	Jan	30 (Tue)	05:42	06:30	108	12:14 58S	17:57 252		18:46
2024	Jan	31 (Wed)	05:42	06:30	108	12:14 58S	17:58 252		18:46
2024	Feb	01 (Thu)	05:41	06:30	108	12:14 58S	17:58 252		18:46
2024	Feb	02 (Fri)	05:41	06:29	107	12:14 59S	17:59 253		18:47
2024	Feb	03 (Sat)	05:41	06:29	107	12:14 59S	17:59 253		18:47
2024	Feb	04 (Sun)	05:41	06:29	107	12:14 59S	18:00 253		18:48
2024	Feb	05 (Mon)	05:41	06:29	107	12:14 59S	18:00 254		18:48
2024	Feb	06 (Tue)	05:41	06:29	106	12:14 60S	18:00 254		18:48
2024	Feb	07 (Wed)	05:40	06:28	106	12:14 60S	18:01 254		18:49
2024	Feb	08 (Thu)	05:40	06:28	106	12:15 60S	18:01 255		18:49
2024	Feb	09 (Fri)	05:40	06:28	105	12:15 61S	18:02 255		18:49
2024	Feb	10 (Sat)	05:40	06:27	105	12:15 61S	18:02 255		18:50
2024	Feb	11 (Sun)	05:39	06:27	105	12:15 61S	18:02 256		18:50
2024	Feb	12 (Mon)	05:39	06:27	104	12:15 62S	18:03 256		18:50
2024	Feb	13 (Tue)	05:39	06:26	104	12:15 62S	18:03 256		18:51
2024	Feb	14 (Wed)	05:38	06:26	104	12:15 62S	18:04 257		18:51
2024	Feb	15 (Thu)	05:38	06:25	103	12:15 63S	18:04 257		18:51
2024	Feb	16 (Fri)	05:38	06:25	103	12:15 63S	18:04 257		18:51
2024	Feb	17 (Sat)	05:37	06:24	102	12:14 63S	18:05 258		18:52
2024	Feb	18 (Sun)	05:37	06:24	102	12:14 64S	18:05 258		18:52
2024	Feb	19 (Mon)	05:37	06:24	102	12:14 64S	18:05 258		18:52
2024	Feb	20 (Tue)	05:36	06:23	101	12:14 64S	18:06 259		18:53
2024	Feb	21 (Wed)	05:36	06:23	101	12:14 65S	18:06 259		18:53
2024	Feb	22 (Thu)	05:35	06:22	101	12:14 65S	18:06 260		18:53
2024	Feb	23 (Fri)	05:35	06:22	100	12:14 65S	18:06 260		18:53
2024	Feb	24 (Sat)	05:34	06:21	100	12:14 66S	18:07 260		18:53
2024	Feb	25 (Sun)	05:34	06:20	99	12:14 66S	18:07 261		18:54
2024	Feb	26 (Mon)	05:33	06:20	99	12:13 67S	18:07 261		18:54
2024	Feb	27 (Tue)	05:33	06:19	99	12:13 67S	18:07 261		18:54
2024	Feb	28 (Wed)	05:32	06:19	98	12:13 67S	18:08 262		18:54
2024	Feb	29 (Thu)	05:32	06:18	98	12:13 68S	18:08 262		18:54

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

2024	May	12	(Sun)	04:43	05:33	71	11:57	88N	18:21	289	19:11
2024	May	13	(Mon)	04:43	05:32	71	11:57	87N	18:21	290	19:11
2024	May	14	(Tue)	04:42	05:32	70	11:57	87N	18:22	290	19:12
2024	May	15	(Wed)	04:42	05:32	70	11:57	87N	18:22	290	19:12
2024	May	16	(Thu)	04:42	05:31	70	11:57	87N	18:22	290	19:12
2024	May	17	(Fri)	04:41	05:31	70	11:57	87N	18:23	290	19:13
2024	May	18	(Sat)	04:41	05:31	69	11:57	86N	18:23	291	19:13
2024	May	19	(Sun)	04:41	05:31	69	11:57	86N	18:23	291	19:14
2024	May	20	(Mon)	04:40	05:30	69	11:57	86N	18:24	291	19:14
2024	May	21	(Tue)	04:40	05:30	69	11:57	86N	18:24	291	19:14
2024	May	22	(Wed)	04:40	05:30	69	11:57	85N	18:24	292	19:15
2024	May	23	(Thu)	04:39	05:30	68	11:57	85N	18:25	292	19:15
2024	May	24	(Fri)	04:39	05:30	68	11:57	85N	18:25	292	19:16
2024	May	25	(Sat)	04:39	05:30	68	11:57	85N	18:25	292	19:16
2024	May	26	(Sun)	04:39	05:30	68	11:58	85N	18:26	292	19:16
2024	May	27	(Mon)	04:39	05:29	68	11:58	85N	18:26	292	19:17
2024	May	28	(Tue)	04:38	05:29	67	11:58	84N	18:26	293	19:17
2024	May	29	(Wed)	04:38	05:29	67	11:58	84N	18:27	293	19:18
2024	May	30	(Thu)	04:38	05:29	67	11:58	84N	18:27	293	19:18
2024	May	31	(Fri)	04:38	05:29	67	11:58	84N	18:27	293	19:18
2024	Jun	01	(Sat)	04:38	05:29	67	11:58	84N	18:28	293	19:19
2024	Jun	02	(Sun)	04:38	05:29	67	11:58	84N	18:28	293	19:19
2024	Jun	03	(Mon)	04:38	05:29	67	11:59	84N	18:28	294	19:20
2024	Jun	04	(Tue)	04:38	05:29	66	11:59	83N	18:29	294	19:20
2024	Jun	05	(Wed)	04:38	05:29	66	11:59	83N	18:29	294	19:20
2024	Jun	06	(Thu)	04:38	05:29	66	11:59	83N	18:29	294	19:21
2024	Jun	07	(Fri)	04:38	05:29	66	11:59	83N	18:29	294	19:21
2024	Jun	08	(Sat)	04:38	05:29	66	12:00	83N	18:30	294	19:21
2024	Jun	09	(Sun)	04:38	05:29	66	12:00	83N	18:30	294	19:22
2024	Jun	10	(Mon)	04:38	05:30	66	12:00	83N	18:30	294	19:22
2024	Jun	11	(Tue)	04:38	05:30	66	12:00	83N	18:31	294	19:22
2024	Jun	12	(Wed)	04:38	05:30	66	12:00	83N	18:31	294	19:23
2024	Jun	13	(Thu)	04:38	05:30	66	12:01	83N	18:31	294	19:23
2024	Jun	14	(Fri)	04:38	05:30	66	12:01	83N	18:32	294	19:23
2024	Jun	15	(Sat)	04:38	05:30	66	12:01	83N	18:32	294	19:24
2024	Jun	16	(Sun)	04:39	05:30	65	12:01	83N	18:32	295	19:24
2024	Jun	17	(Mon)	04:39	05:31	65	12:01	83N	18:32	295	19:24
2024	Jun	18	(Tue)	04:39	05:31	65	12:02	83N	18:33	295	19:24
2024	Jun	19	(Wed)	04:39	05:31	65	12:02	83N	18:33	295	19:25
2024	Jun	20	(Thu)	04:39	05:31	65	12:02	83N	18:33	295	19:25
2024	Jun	21	(Fri)	04:40	05:31	65	12:02	83N	18:33	295	19:25
2024	Jun	22	(Sat)	04:40	05:32	65	12:03	83N	18:33	295	19:25
2024	Jun	23	(Sun)	04:40	05:32	65	12:03	83N	18:34	295	19:25
2024	Jun	24	(Mon)	04:40	05:32	65	12:03	83N	18:34	295	19:26
2024	Jun	25	(Tue)	04:41	05:32	65	12:03	83N	18:34	295	19:26
2024	Jun	26	(Wed)	04:41	05:33	65	12:03	83N	18:34	294	19:26
2024	Jun	27	(Thu)	04:41	05:33	66	12:04	83N	18:34	294	19:26
2024	Jun	28	(Fri)	04:41	05:33	66	12:04	83N	18:34	294	19:26
2024	Jun	29	(Sat)	04:42	05:33	66	12:04	83N	18:35	294	19:26
2024	Jun	30	(Sun)	04:42	05:34	66	12:04	83N	18:35	294	19:26
2024	Jul	01	(Mon)	04:42	05:34	66	12:04	83N	18:35	294	19:26
2024	Jul	02	(Tue)	04:43	05:34	66	12:05	83N	18:35	294	19:26
2024	Jul	03	(Wed)	04:43	05:34	66	12:05	83N	18:35	294	19:26
2024	Jul	04	(Thu)	04:43	05:35	66	12:05	83N	18:35	294	19:26
2024	Jul	05	(Fri)	04:44	05:35	66	12:05	83N	18:35	294	19:27
2024	Jul	06	(Sat)	04:44	05:35	66	12:05	83N	18:35	294	19:26
2024	Jul	07	(Sun)	04:44	05:36	66	12:05	83N	18:35	294	19:26
2024	Jul	08	(Mon)	04:45	05:36	66	12:06	84N	18:35	293	19:26
2024	Jul	09	(Tue)	04:45	05:36	67	12:06	84N	18:35	293	19:26
2024	Jul	10	(Wed)	04:45	05:37	67	12:06	84N	18:35	293	19:26
2024	Jul	11	(Thu)	04:46	05:37	67	12:06	84N	18:35	293	19:26
2024	Jul	12	(Fri)	04:46	05:37	67	12:06	84N	18:35	293	19:26
2024	Jul	13	(Sat)	04:46	05:37	67	12:06	84N	18:35	293	19:26
2024	Jul	14	(Sun)	04:47	05:38	67	12:06	84N	18:35	293	19:26
2024	Jul	15	(Mon)	04:47	05:38	67	12:06	85N	18:35	292	19:26
2024	Jul	16	(Tue)	04:48	05:38	68	12:07	85N	18:35	292	19:25
2024	Jul	17	(Wed)	04:48	05:39	68	12:07	85N	18:34	292	19:25
2024	Jul	18	(Thu)	04:48	05:39	68	12:07	85N	18:34	292	19:25
2024	Jul	19	(Fri)	04:49	05:39	68	12:07	85N	18:34	292	19:25
2024	Jul	20	(Sat)	04:49	05:40	68	12:07	85N	18:34	292	19:24
2024	Jul	21	(Sun)	04:49	05:40	69	12:07	86N	18:34	291	19:24
2024	Jul	22	(Mon)	04:50	05:40	69	12:07	86N	18:34	291	19:24

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

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

2024	Dec	14	(Sat)	05:28	06:18	114	11:55	52S	17:32	246	18:22
2024	Dec	15	(Sun)	05:29	06:19	114	11:56	52S	17:33	246	18:23
2024	Dec	16	(Mon)	05:29	06:19	114	11:56	52S	17:33	246	18:23
2024	Dec	17	(Tue)	05:30	06:20	114	11:57	52S	17:33	246	18:24
2024	Dec	18	(Wed)	05:30	06:20	114	11:57	52S	17:34	246	18:24
2024	Dec	19	(Thu)	05:31	06:21	114	11:58	52S	17:34	246	18:25
2024	Dec	20	(Fri)	05:31	06:21	114	11:58	52S	17:35	246	18:25
2024	Dec	21	(Sat)	05:32	06:22	114	11:59	52S	17:35	246	18:26
2024	Dec	22	(Sun)	05:32	06:22	114	11:59	52S	17:36	246	18:26
2024	Dec	23	(Mon)	05:33	06:23	114	12:00	52S	17:36	246	18:27
2024	Dec	24	(Tue)	05:33	06:23	114	12:00	52S	17:37	246	18:27
2024	Dec	25	(Wed)	05:34	06:24	114	12:01	52S	17:37	246	18:28
2024	Dec	26	(Thu)	05:34	06:24	114	12:01	52S	17:38	246	18:28
2024	Dec	27	(Fri)	05:35	06:25	114	12:02	52S	17:39	246	18:29
2024	Dec	28	(Sat)	05:35	06:25	114	12:02	52S	17:39	246	18:29
2024	Dec	29	(Sun)	05:35	06:25	114	12:03	52S	17:40	246	18:30
2024	Dec	30	(Mon)	05:36	06:26	114	12:03	52S	17:40	246	18:30
2024	Dec	31	(Tue)	05:36	06:26	114	12:03	52S	17:41	246	18:31

Sun

Ubon Ratchathani

Location: E104°53'38.4", N15°14'38.3", 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)	06:03	06:26	114	12:04 52S	17:41	246	18:04
2024	Jan	02	(Tue)	06:03	06:27	114	12:04 53S	17:41	246	18:05
2024	Jan	03	(Wed)	06:04	06:27	114	12:05 53S	17:42	247	18:05
2024	Jan	04	(Thu)	06:04	06:27	113	12:05 53S	17:43	247	18:06
2024	Jan	05	(Fri)	06:05	06:28	113	12:05 53S	17:43	247	18:06
2024	Jan	06	(Sat)	06:05	06:28	113	12:06 53S	17:44	247	18:07
2024	Jan	07	(Sun)	06:05	06:28	113	12:06 53S	17:44	247	18:08
2024	Jan	08	(Mon)	06:06	06:29	113	12:07 53S	17:45	247	18:08
2024	Jan	09	(Tue)	06:06	06:29	113	12:07 53S	17:46	247	18:09
2024	Jan	10	(Wed)	06:06	06:29	113	12:08 53S	17:46	247	18:09
2024	Jan	11	(Thu)	06:06	06:29	113	12:08 54S	17:47	248	18:10
2024	Jan	12	(Fri)	06:07	06:30	112	12:08 54S	17:47	248	18:10
2024	Jan	13	(Sat)	06:07	06:30	112	12:09 54S	17:48	248	18:11
2024	Jan	14	(Sun)	06:07	06:30	112	12:09 54S	17:49	248	18:12
2024	Jan	15	(Mon)	06:07	06:30	112	12:10 54S	17:49	248	18:12
2024	Jan	16	(Tue)	06:07	06:30	112	12:10 54S	17:50	248	18:13
2024	Jan	17	(Wed)	06:07	06:30	111	12:10 55S	17:50	249	18:13
2024	Jan	18	(Thu)	06:08	06:30	111	12:11 55S	17:51	249	18:14
2024	Jan	19	(Fri)	06:08	06:30	111	12:11 55S	17:51	249	18:14
2024	Jan	20	(Sat)	06:08	06:31	111	12:11 55S	17:52	249	18:15
2024	Jan	21	(Sun)	06:08	06:31	111	12:12 55S	17:53	250	18:15
2024	Jan	22	(Mon)	06:08	06:31	110	12:12 56S	17:53	250	18:16
2024	Jan	23	(Tue)	06:08	06:31	110	12:12 56S	17:54	250	18:16
2024	Jan	24	(Wed)	06:08	06:31	110	12:12 56S	17:54	250	18:17
2024	Jan	25	(Thu)	06:08	06:31	110	12:13 56S	17:55	250	18:17
2024	Jan	26	(Fri)	06:08	06:30	109	12:13 57S	17:55	251	18:18
2024	Jan	27	(Sat)	06:08	06:30	109	12:13 57S	17:56	251	18:18
2024	Jan	28	(Sun)	06:08	06:30	109	12:13 57S	17:56	251	18:19
2024	Jan	29	(Mon)	06:08	06:30	109	12:13 57S	17:57	252	18:19
2024	Jan	30	(Tue)	06:08	06:30	108	12:14 58S	17:57	252	18:20
2024	Jan	31	(Wed)	06:07	06:30	108	12:14 58S	17:58	252	18:20
2024	Feb	01	(Thu)	06:07	06:30	108	12:14 58S	17:58	252	18:21
2024	Feb	02	(Fri)	06:07	06:29	107	12:14 59S	17:59	253	18:21
2024	Feb	03	(Sat)	06:07	06:29	107	12:14 59S	17:59	253	18:21
2024	Feb	04	(Sun)	06:07	06:29	107	12:14 59S	18:00	253	18:22
2024	Feb	05	(Mon)	06:07	06:29	107	12:14 59S	18:00	254	18:22
2024	Feb	06	(Tue)	06:06	06:29	106	12:14 60S	18:00	254	18:23
2024	Feb	07	(Wed)	06:06	06:28	106	12:14 60S	18:01	254	18:23
2024	Feb	08	(Thu)	06:06	06:28	106	12:15 60S	18:01	255	18:23
2024	Feb	09	(Fri)	06:06	06:28	105	12:15 61S	18:02	255	18:24
2024	Feb	10	(Sat)	06:05	06:27	105	12:15 61S	18:02	255	18:24

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

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

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

2024	Sep	14	(Sat)	05:27	05:49	86	11:56	79S	18:03	273	18:24
2024	Sep	15	(Sun)	05:28	05:49	87	11:56	78S	18:02	273	18:23
2024	Sep	16	(Mon)	05:28	05:49	87	11:55	78S	18:01	273	18:23
2024	Sep	17	(Tue)	05:28	05:49	88	11:55	78S	18:00	272	18:22
2024	Sep	18	(Wed)	05:28	05:49	88	11:54	77S	18:00	272	18:21
2024	Sep	19	(Thu)	05:28	05:49	88	11:54	77S	17:59	271	18:20
2024	Sep	20	(Fri)	05:28	05:49	89	11:54	76S	17:58	271	18:19
2024	Sep	21	(Sat)	05:28	05:49	89	11:53	76S	17:57	271	18:19
2024	Sep	22	(Sun)	05:28	05:49	90	11:53	76S	17:56	270	18:18
2024	Sep	23	(Mon)	05:28	05:50	90	11:53	75S	17:56	270	18:17
2024	Sep	24	(Tue)	05:28	05:50	90	11:52	75S	17:55	269	18:16
2024	Sep	25	(Wed)	05:28	05:50	91	11:52	74S	17:54	269	18:16
2024	Sep	26	(Thu)	05:28	05:50	91	11:52	74S	17:53	269	18:15
2024	Sep	27	(Fri)	05:28	05:50	92	11:51	74S	17:53	268	18:14
2024	Sep	28	(Sat)	05:29	05:50	92	11:51	73S	17:52	268	18:13
2024	Sep	29	(Sun)	05:29	05:50	92	11:51	73S	17:51	267	18:13
2024	Sep	30	(Mon)	05:29	05:50	93	11:50	72S	17:50	267	18:12
2024	Oct	01	(Tue)	05:29	05:50	93	11:50	72S	17:50	267	18:11
2024	Oct	02	(Wed)	05:29	05:50	94	11:50	72S	17:49	266	18:10
2024	Oct	03	(Thu)	05:29	05:50	94	11:49	71S	17:48	266	18:10
2024	Oct	04	(Fri)	05:29	05:51	94	11:49	71S	17:47	265	18:09
2024	Oct	05	(Sat)	05:29	05:51	95	11:49	71S	17:47	265	18:08
2024	Oct	06	(Sun)	05:29	05:51	95	11:48	70S	17:46	265	18:07
2024	Oct	07	(Mon)	05:29	05:51	96	11:48	70S	17:45	264	18:07
2024	Oct	08	(Tue)	05:30	05:51	96	11:48	69S	17:45	264	18:06
2024	Oct	09	(Wed)	05:30	05:51	96	11:48	69S	17:44	263	18:05
2024	Oct	10	(Thu)	05:30	05:51	97	11:47	69S	17:43	263	18:05
2024	Oct	11	(Fri)	05:30	05:51	97	11:47	68S	17:43	263	18:04
2024	Oct	12	(Sat)	05:30	05:52	98	11:47	68S	17:42	262	18:03
2024	Oct	13	(Sun)	05:30	05:52	98	11:47	68S	17:41	262	18:03
2024	Oct	14	(Mon)	05:30	05:52	98	11:46	67S	17:41	262	18:02
2024	Oct	15	(Tue)	05:31	05:52	99	11:46	67S	17:40	261	18:02
2024	Oct	16	(Wed)	05:31	05:52	99	11:46	66S	17:39	261	18:01
2024	Oct	17	(Thu)	05:31	05:53	99	11:46	66S	17:39	260	18:00
2024	Oct	18	(Fri)	05:31	05:53	100	11:46	66S	17:38	260	18:00
2024	Oct	19	(Sat)	05:31	05:53	100	11:45	65S	17:38	260	17:59
2024	Oct	20	(Sun)	05:31	05:53	101	11:45	65S	17:37	259	17:59
2024	Oct	21	(Mon)	05:32	05:53	101	11:45	65S	17:36	259	17:58
2024	Oct	22	(Tue)	05:32	05:54	101	11:45	64S	17:36	259	17:58
2024	Oct	23	(Wed)	05:32	05:54	102	11:45	64S	17:35	258	17:57
2024	Oct	24	(Thu)	05:32	05:54	102	11:45	64S	17:35	258	17:57
2024	Oct	25	(Fri)	05:33	05:54	102	11:44	63S	17:34	257	17:56
2024	Oct	26	(Sat)	05:33	05:55	103	11:44	63S	17:34	257	17:56
2024	Oct	27	(Sun)	05:33	05:55	103	11:44	63S	17:33	257	17:55
2024	Oct	28	(Mon)	05:33	05:55	103	11:44	62S	17:33	256	17:55
2024	Oct	29	(Tue)	05:34	05:56	104	11:44	62S	17:32	256	17:54
2024	Oct	30	(Wed)	05:34	05:56	104	11:44	62S	17:32	256	17:54
2024	Oct	31	(Thu)	05:34	05:56	104	11:44	61S	17:32	255	17:54
2024	Nov	01	(Fri)	05:35	05:57	105	11:44	61S	17:31	255	17:53
2024	Nov	02	(Sat)	05:35	05:57	105	11:44	61S	17:31	255	17:53
2024	Nov	03	(Sun)	05:35	05:57	105	11:44	60S	17:30	254	17:53
2024	Nov	04	(Mon)	05:35	05:58	106	11:44	60S	17:30	254	17:52
2024	Nov	05	(Tue)	05:36	05:58	106	11:44	60S	17:30	254	17:52
2024	Nov	06	(Wed)	05:36	05:58	106	11:44	59S	17:30	253	17:52
2024	Nov	07	(Thu)	05:37	05:59	107	11:44	59S	17:29	253	17:52
2024	Nov	08	(Fri)	05:37	05:59	107	11:44	59S	17:29	253	17:51
2024	Nov	09	(Sat)	05:37	06:00	107	11:44	58S	17:29	253	17:51
2024	Nov	10	(Sun)	05:38	06:00	108	11:44	58S	17:28	252	17:51
2024	Nov	11	(Mon)	05:38	06:01	108	11:44	58S	17:28	252	17:51
2024	Nov	12	(Tue)	05:38	06:01	108	11:45	58S	17:28	252	17:51
2024	Nov	13	(Wed)	05:39	06:01	108	11:45	57S	17:28	251	17:50
2024	Nov	14	(Thu)	05:39	06:02	109	11:45	57S	17:28	251	17:50
2024	Nov	15	(Fri)	05:40	06:02	109	11:45	57S	17:28	251	17:50
2024	Nov	16	(Sat)	05:40	06:03	109	11:45	57S	17:27	251	17:50
2024	Nov	17	(Sun)	05:41	06:03	110	11:45	56S	17:27	250	17:50
2024	Nov	18	(Mon)	05:41	06:04	110	11:46	56S	17:27	250	17:50
2024	Nov	19	(Tue)	05:42	06:04	110	11:46	56S	17:27	250	17:50
2024	Nov	20	(Wed)	05:42	06:05	110	11:46	56S	17:27	250	17:50
2024	Nov	21	(Thu)	05:43	06:05	110	11:46	55S	17:27	249	17:50
2024	Nov	22	(Fri)	05:43	06:06	111	11:47	55S	17:27	249	17:50
2024	Nov	23	(Sat)	05:44	06:06	111	11:47	55S	17:27	249	17:50
2024	Nov	24	(Sun)	05:44	06:07	111	11:47	55S	17:27	249	17:50

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

Moon

Ubon Ratchathani

Location: E104°53'38.4", N15°14'38.3", 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)	22:11		80	03:51		89S	10:15		282
2024	Jan	02	(Tue)	22:57		86	04:31		83S	10:48		277
2024	Jan	03	(Wed)	23:43		92	05:11		78S	11:21		271
2024	Jan	04	(Thu)				05:50		72S	11:54		265
2024	Jan	05	(Fri)	00:29		98	06:30		66S	12:28		259
2024	Jan	06	(Sat)	01:18		104	07:13		60S	13:05		253
2024	Jan	07	(Sun)	02:10		109	08:00		55S	13:47		248
2024	Jan	08	(Mon)	03:06		114	08:51		51S	14:34		244
2024	Jan	09	(Tue)	04:07		117	09:48		48S	15:29		242
2024	Jan	10	(Wed)	05:10		119	10:50		47S	16:30		241
2024	Jan	11	(Thu)	06:13		119	11:54		47S	17:36		242
2024	Jan	12	(Fri)	07:13		116	12:56		50S	18:42		245
2024	Jan	13	(Sat)	08:07		112	13:56		55S	19:48		251
2024	Jan	14	(Sun)	08:57		106	14:51		61S	20:50		257
2024	Jan	15	(Mon)	09:41		99	15:43		68S	21:48		264
2024	Jan	16	(Tue)	10:23		92	16:32		75S	22:45		272
2024	Jan	17	(Wed)	11:03		85	17:20		82S	23:40		279
2024	Jan	18	(Thu)	11:43		78	18:07		88S			
2024	Jan	19	(Fri)	12:25		72	18:57		87N	00:36		285
2024	Jan	20	(Sat)	13:10		67	19:48		83N	01:32		291
2024	Jan	21	(Sun)	13:58		63	20:42		79N	02:30		295
2024	Jan	22	(Mon)	14:50		61	21:37		78N	03:28		298
2024	Jan	23	(Tue)	15:45		61	22:33		78N	04:26		299

2024	Jan	24	(Wed)	16:40	62	23:26	79N	05:20	299
2024	Jan	25	(Thu)	17:35	64			06:10	297
2024	Jan	26	(Fri)	18:28	68	00:17	82N	06:55	294
2024	Jan	27	(Sat)	19:18	73	01:04	86N	07:36	289
2024	Jan	28	(Sun)	20:06	78	01:47	91S	08:13	284
2024	Jan	29	(Mon)	20:52	84	02:28	85S	08:47	279
2024	Jan	30	(Tue)	21:37	90	03:08	79S	09:20	273
2024	Jan	31	(Wed)	22:23	96	03:47	74S	09:53	267
2024	Feb	01	(Thu)	23:10	102	04:26	68S	10:26	261
2024	Feb	02	(Fri)	23:59	107	05:07	62S	11:01	255
2024	Feb	03	(Sat)			05:51	57S	11:40	250
2024	Feb	04	(Sun)	00:52	112	06:39	52S	12:23	246
2024	Feb	05	(Mon)	01:49	116	07:32	49S	13:13	242
2024	Feb	06	(Tue)	02:50	119	08:30	47S	14:09	241
2024	Feb	07	(Wed)	03:52	119	09:32	47S	15:12	241
2024	Feb	08	(Thu)	04:53	118	10:35	48S	16:19	243
2024	Feb	09	(Fri)	05:51	115	11:37	52S	17:26	248
2024	Feb	10	(Sat)	06:44	109	12:35	58S	18:31	254
2024	Feb	11	(Sun)	07:31	103	13:30	65S	19:33	261
2024	Feb	12	(Mon)	08:16	95	14:22	72S	20:32	269
2024	Feb	13	(Tue)	08:58	88	15:12	79S	21:31	276
2024	Feb	14	(Wed)	09:39	80	16:02	86S	22:28	283
2024	Feb	15	(Thu)	10:22	74	16:52	89N	23:26	289
2024	Feb	16	(Fri)	11:07	68	17:44	84N		
2024	Feb	17	(Sat)	11:55	64	18:38	80N	00:25	294
2024	Feb	18	(Sun)	12:46	61	19:33	78N	01:24	297
2024	Feb	19	(Mon)	13:40	61	20:28	77N	02:21	299
2024	Feb	20	(Tue)	14:35	61	21:22	78N	03:16	299
2024	Feb	21	(Wed)	15:30	63	22:13	81N	04:07	298
2024	Feb	22	(Thu)	16:23	67	23:01	85N	04:54	295
2024	Feb	23	(Fri)	17:14	71	23:45	89N	05:35	291
2024	Feb	24	(Sat)	18:02	77			06:13	286
2024	Feb	25	(Sun)	18:49	82	00:27	87S	06:48	281
2024	Feb	26	(Mon)	19:34	88	01:07	81S	07:21	275
2024	Feb	27	(Tue)	20:20	94	01:46	76S	07:54	269
2024	Feb	28	(Wed)	21:06	100	02:25	70S	08:26	263
2024	Feb	29	(Thu)	21:54	106	03:05	64S	09:00	257
2024	Mar	01	(Fri)	22:45	111	03:47	59S	09:37	252
2024	Mar	02	(Sat)	23:39	115	04:33	54S	10:18	247
2024	Mar	03	(Sun)			05:22	50S	11:04	243
2024	Mar	04	(Mon)	00:36	118	06:17	47S	11:56	241
2024	Mar	05	(Tue)	01:36	120	07:15	46S	12:54	240
2024	Mar	06	(Wed)	02:36	119	08:16	47S	13:57	242
2024	Mar	07	(Thu)	03:34	117	09:17	50S	15:02	245
2024	Mar	08	(Fri)	04:28	112	10:16	55S	16:07	250
2024	Mar	09	(Sat)	05:18	106	11:12	61S	17:11	257
2024	Mar	10	(Sun)	06:04	99	12:06	68S	18:12	264
2024	Mar	11	(Mon)	06:47	92	12:58	76S	19:12	272
2024	Mar	12	(Tue)	07:30	84	13:49	83S	20:12	280
2024	Mar	13	(Wed)	08:14	77	14:41	90S	21:12	287
2024	Mar	14	(Thu)	08:59	70	15:34	86N	22:13	292
2024	Mar	15	(Fri)	09:48	65	16:29	81N	23:14	297
2024	Mar	16	(Sat)	10:39	62	17:26	78N		
2024	Mar	17	(Sun)	11:34	60	18:22	77N	00:14	299
2024	Mar	18	(Mon)	12:30	61	19:17	78N	01:11	300
2024	Mar	19	(Tue)	13:25	62	20:10	80N	02:04	299
2024	Mar	20	(Wed)	14:19	66	20:58	83N	02:52	296
2024	Mar	21	(Thu)	15:10	70	21:44	88N	03:35	292
2024	Mar	22	(Fri)	15:59	75	22:26	89S	04:14	288
2024	Mar	23	(Sat)	16:46	80	23:06	83S	04:50	282
2024	Mar	24	(Sun)	17:32	86	23:45	77S	05:23	277
2024	Mar	25	(Mon)	18:17	92			05:56	271
2024	Mar	26	(Tue)	19:03	98	00:24	72S	06:28	265
2024	Mar	27	(Wed)	19:51	104	01:04	66S	07:02	259
2024	Mar	28	(Thu)	20:41	109	01:46	60S	07:38	253
2024	Mar	29	(Fri)	21:34	114	02:30	55S	08:17	248
2024	Mar	30	(Sat)	22:30	117	03:18	51S	09:01	244
2024	Mar	31	(Sun)	23:28	119	04:11	48S	09:50	242
2024	Apr	01	(Mon)			05:07	46S	10:45	240
2024	Apr	02	(Tue)	00:26	120	06:05	47S	11:44	241
2024	Apr	03	(Wed)	01:23	118	07:04	48S	12:47	243
2024	Apr	04	(Thu)	02:17	115	08:02	52S	13:50	248

2024	Apr	05	(Fri)	03:06	109	08:57	58S	14:52	253
2024	Apr	06	(Sat)	03:52	103	09:50	64S	15:52	260
2024	Apr	07	(Sun)	04:36	96	10:42	72S	16:52	268
2024	Apr	08	(Mon)	05:19	88	11:33	79S	17:52	276
2024	Apr	09	(Tue)	06:02	80	12:25	86S	18:52	283
2024	Apr	10	(Wed)	06:47	74	13:18	88N	19:54	290
2024	Apr	11	(Thu)	07:35	68	14:14	83N	20:57	295
2024	Apr	12	(Fri)	08:27	63	15:12	79N	22:00	298
2024	Apr	13	(Sat)	09:22	61	16:11	77N	23:00	300
2024	Apr	14	(Sun)	10:19	60	17:08	77N	23:57	299
2024	Apr	15	(Mon)	11:17	62	18:03	79N		
2024	Apr	16	(Tue)	12:12	64	18:54	82N	00:48	297
2024	Apr	17	(Wed)	13:05	68	19:41	86N	01:33	294
2024	Apr	18	(Thu)	13:55	73	20:24	91S	02:13	289
2024	Apr	19	(Fri)	14:43	78	21:05	85S	02:50	284
2024	Apr	20	(Sat)	15:29	84	21:44	80S	03:24	279
2024	Apr	21	(Sun)	16:14	90	22:23	74S	03:57	273
2024	Apr	22	(Mon)	17:00	96	23:03	68S	04:29	267
2024	Apr	23	(Tue)	17:47	102	23:44	62S	05:03	261
2024	Apr	24	(Wed)	18:37	108			05:38	255
2024	Apr	25	(Thu)	19:29	113	00:28	57S	06:16	250
2024	Apr	26	(Fri)	20:25	116	01:15	52S	06:59	246
2024	Apr	27	(Sat)	21:23	119	02:07	49S	07:47	242
2024	Apr	28	(Sun)	22:21	120	03:02	47S	08:40	241
2024	Apr	29	(Mon)	23:18	119	03:59	46S	09:38	241
2024	Apr	30	(Tue)			04:58	48S	10:39	242
2024	May	01	(Wed)	00:12	116	05:55	51S	11:40	246
2024	May	02	(Thu)	01:01	111	06:49	56S	12:41	251
2024	May	03	(Fri)	01:47	106	07:42	61S	13:40	258
2024	May	04	(Sat)	02:30	99	08:32	68S	14:38	265
2024	May	05	(Sun)	03:11	92	09:21	76S	15:35	272
2024	May	06	(Mon)	03:53	84	10:11	83S	16:34	280
2024	May	07	(Tue)	04:36	77	11:03	90S	17:34	287
2024	May	08	(Wed)	05:22	71	11:57	86N	18:36	292
2024	May	09	(Thu)	06:12	65	12:55	81N	19:40	297
2024	May	10	(Fri)	07:07	62	13:54	78N	20:43	299
2024	May	11	(Sat)	08:04	60	14:54	77N	21:43	300
2024	May	12	(Sun)	09:03	61	15:52	78N	22:38	298
2024	May	13	(Mon)	10:01	63	16:45	81N	23:27	295
2024	May	14	(Tue)	10:56	67	17:35	84N		
2024	May	15	(Wed)	11:48	71	18:20	89N	00:10	291
2024	May	16	(Thu)	12:37	76	19:02	87S	00:48	286
2024	May	17	(Fri)	13:24	82	19:42	82S	01:24	281
2024	May	18	(Sat)	14:09	88	20:21	76S	01:57	275
2024	May	19	(Sun)	14:55	94	21:00	70S	02:29	269
2024	May	20	(Mon)	15:41	100	21:40	64S	03:02	263
2024	May	21	(Tue)	16:30	106	22:23	59S	03:36	257
2024	May	22	(Wed)	17:22	111	23:10	54S	04:14	252
2024	May	23	(Thu)	18:17	115			04:55	247
2024	May	24	(Fri)	19:15	118	00:01	50S	05:42	243
2024	May	25	(Sat)	20:14	120	00:55	47S	06:35	241
2024	May	26	(Sun)	21:13	119	01:53	46S	07:32	240
2024	May	27	(Mon)	22:08	117	02:52	47S	08:33	242
2024	May	28	(Tue)	22:59	113	03:50	50S	09:35	245
2024	May	29	(Wed)	23:45	107	04:46	54S	10:35	250
2024	May	30	(Thu)			05:38	60S	11:34	256
2024	May	31	(Fri)	00:28	101	06:28	66S	12:31	262
2024	Jun	01	(Sat)	01:09	94	07:16	73S	13:27	270
2024	Jun	02	(Sun)	01:49	87	08:04	80S	14:23	277
2024	Jun	03	(Mon)	02:30	80	08:53	87S	15:21	284
2024	Jun	04	(Tue)	03:13	73	09:45	88N	16:20	290
2024	Jun	05	(Wed)	04:01	68	10:40	83N	17:23	295
2024	Jun	06	(Thu)	04:53	63	11:38	79N	18:26	298
2024	Jun	07	(Fri)	05:49	61	12:38	78N	19:27	299
2024	Jun	08	(Sat)	06:48	61	13:37	78N	20:25	299
2024	Jun	09	(Sun)	07:47	62	14:34	79N	21:17	296
2024	Jun	10	(Mon)	08:45	65	15:26	83N	22:04	293
2024	Jun	11	(Tue)	09:39	69	16:13	87N	22:44	288
2024	Jun	12	(Wed)	10:29	74	16:57	89S	23:21	283
2024	Jun	13	(Thu)	11:17	80	17:38	84S	23:55	277
2024	Jun	14	(Fri)	12:03	86	18:17	78S		
2024	Jun	15	(Sat)	12:49	92	18:56	72S	00:28	271

2024	Jun	16	(Sun)	13:34	98	19:36	66S	01:00	265
2024	Jun	17	(Mon)	14:22	104	20:17	61S	01:34	259
2024	Jun	18	(Tue)	15:12	109	21:02	56S	02:10	254
2024	Jun	19	(Wed)	16:06	114	21:51	51S	02:50	249
2024	Jun	20	(Thu)	17:03	117	22:45	48S	03:34	245
2024	Jun	21	(Fri)	18:03	119	23:43	47S	04:25	242
2024	Jun	22	(Sat)	19:03	119			05:22	240
2024	Jun	23	(Sun)	20:01	118	00:43	47S	06:23	241
2024	Jun	24	(Mon)	20:54	114	01:43	49S	07:26	244
2024	Jun	25	(Tue)	21:43	109	02:40	53S	08:28	248
2024	Jun	26	(Wed)	22:27	103	03:34	58S	09:29	254
2024	Jun	27	(Thu)	23:09	96	04:25	64S	10:27	261
2024	Jun	28	(Fri)	23:49	89	05:14	71S	11:23	268
2024	Jun	29	(Sat)			06:01	78S	12:18	275
2024	Jun	30	(Sun)	00:29	82	06:49	85S	13:14	282
2024	Jul	01	(Mon)	01:10	75	07:39	90N	14:12	288
2024	Jul	02	(Tue)	01:55	69	08:32	84N	15:12	293
2024	Jul	03	(Wed)	02:45	65	09:28	80N	16:13	297
2024	Jul	04	(Thu)	03:38	62	10:26	78N	17:15	299
2024	Jul	05	(Fri)	04:36	61	11:25	77N	18:14	299
2024	Jul	06	(Sat)	05:35	61	12:22	79N	19:08	298
2024	Jul	07	(Sun)	06:33	64	13:16	81N	19:56	294
2024	Jul	08	(Mon)	07:28	68	14:06	85N	20:40	290
2024	Jul	09	(Tue)	08:21	72	14:51	90N	21:18	285
2024	Jul	10	(Wed)	09:10	78	15:33	86S	21:53	279
2024	Jul	11	(Thu)	09:57	84	16:13	80S	22:26	273
2024	Jul	12	(Fri)	10:42	90	16:52	74S	22:59	267
2024	Jul	13	(Sat)	11:28	96	17:31	68S	23:31	262
2024	Jul	14	(Sun)	12:14	101	18:12	63S		
2024	Jul	15	(Mon)	13:03	107	18:54	58S	00:06	256
2024	Jul	16	(Tue)	13:54	112	19:41	53S	00:44	251
2024	Jul	17	(Wed)	14:50	116	20:32	49S	01:26	246
2024	Jul	18	(Thu)	15:48	119	21:28	47S	02:13	243
2024	Jul	19	(Fri)	16:48	120	22:27	46S	03:07	241
2024	Jul	20	(Sat)	17:48	119	23:28	48S	04:07	241
2024	Jul	21	(Sun)	18:44	116			05:10	242
2024	Jul	22	(Mon)	19:36	111	00:28	51S	06:15	246
2024	Jul	23	(Tue)	20:23	105	01:25	56S	07:18	252
2024	Jul	24	(Wed)	21:07	98	02:19	62S	08:18	258
2024	Jul	25	(Thu)	21:48	91	03:09	69S	09:16	265
2024	Jul	26	(Fri)	22:28	84	03:58	76S	10:13	273
2024	Jul	27	(Sat)	23:10	77	04:47	83S	11:10	280
2024	Jul	28	(Sun)	23:54	71	05:36	90S	12:07	287
2024	Jul	29	(Mon)			06:28	86N	13:06	292
2024	Jul	30	(Tue)	00:41	66	07:22	81N	14:07	296
2024	Jul	31	(Wed)	01:33	62	08:19	78N	15:07	299
2024	Aug	01	(Thu)	02:28	61	09:17	77N	16:06	300
2024	Aug	02	(Fri)	03:26	61	10:14	78N	17:01	298
2024	Aug	03	(Sat)	04:24	63	11:09	80N	17:51	296
2024	Aug	04	(Sun)	05:20	66	11:59	84N	18:36	292
2024	Aug	05	(Mon)	06:13	70	12:46	88N	19:16	287
2024	Aug	06	(Tue)	07:04	76	13:29	88S	19:52	281
2024	Aug	07	(Wed)	07:51	81	14:10	82S	20:26	276
2024	Aug	08	(Thu)	08:37	87	14:49	76S	20:58	270
2024	Aug	09	(Fri)	09:22	93	15:28	70S	21:30	264
2024	Aug	10	(Sat)	10:08	99	16:07	65S	22:04	258
2024	Aug	11	(Sun)	10:55	105	16:49	59S	22:40	253
2024	Aug	12	(Mon)	11:45	110	17:33	55S	23:19	248
2024	Aug	13	(Tue)	12:38	114	18:21	51S		
2024	Aug	14	(Wed)	13:34	118	19:14	48S	00:03	244
2024	Aug	15	(Thu)	14:32	120	20:11	46S	00:53	241
2024	Aug	16	(Fri)	15:31	120	21:11	47S	01:49	240
2024	Aug	17	(Sat)	16:29	118	22:11	49S	02:51	241
2024	Aug	18	(Sun)	17:23	114	23:10	53S	03:55	244
2024	Aug	19	(Mon)	18:13	108			04:59	249
2024	Aug	20	(Tue)	18:59	101	00:06	59S	06:02	255
2024	Aug	21	(Wed)	19:42	94	00:59	66S	07:03	262
2024	Aug	22	(Thu)	20:24	86	01:50	73S	08:02	270
2024	Aug	23	(Fri)	21:07	79	02:40	81S	09:00	278
2024	Aug	24	(Sat)	21:51	72	03:31	88S	09:59	285
2024	Aug	25	(Sun)	22:38	67	04:23	87N	10:59	291
2024	Aug	26	(Mon)	23:29	63	05:18	82N	12:01	295

2024 Aug 27 (Tue)		06:14 79N	13:02 298
2024 Aug 28 (Wed)	00:24 61	07:12 77N	14:02 300
2024 Aug 29 (Thu)	01:21 60	08:10 77N	14:58 299
2024 Aug 30 (Fri)	02:18 62	09:04 79N	15:49 297
2024 Aug 31 (Sat)	03:14 65	09:56 82N	16:34 293
2024 Sep 01 (Sun)	04:08 69	10:43 87N	17:15 289
2024 Sep 02 (Mon)	04:59 74	11:27 90S	17:52 283
2024 Sep 03 (Tue)	05:47 79	12:09 84S	18:26 278
2024 Sep 04 (Wed)	06:34 85	12:48 78S	18:59 272
2024 Sep 05 (Thu)	07:19 91	13:27 72S	19:31 266
2024 Sep 06 (Fri)	08:04 97	14:06 67S	20:04 260
2024 Sep 07 (Sat)	08:51 103	14:46 61S	20:39 254
2024 Sep 08 (Sun)	09:39 108	15:29 56S	21:16 249
2024 Sep 09 (Mon)	10:30 113	16:15 52S	21:58 245
2024 Sep 10 (Tue)	11:24 117	17:05 49S	22:44 242
2024 Sep 11 (Wed)	12:20 119	17:59 47S	23:37 240
2024 Sep 12 (Thu)	13:17 120	18:56 46S	
2024 Sep 13 (Fri)	14:14 119	19:54 48S	00:34 240
2024 Sep 14 (Sat)	15:09 116	20:52 51S	01:35 242
2024 Sep 15 (Sun)	16:00 111	21:49 56S	02:38 246
2024 Sep 16 (Mon)	16:47 105	22:43 62S	03:41 252
2024 Sep 17 (Tue)	17:32 98	23:35 69S	04:43 258
2024 Sep 18 (Wed)	18:15 90		05:43 266
2024 Sep 19 (Thu)	18:58 82	00:27 77S	06:43 274
2024 Sep 20 (Fri)	19:43 75	01:19 85S	07:44 282
2024 Sep 21 (Sat)	20:30 69	02:12 90N	08:46 288
2024 Sep 22 (Sun)	21:21 64	03:08 84N	09:49 294
2024 Sep 23 (Mon)	22:17 61	04:06 80N	10:53 298
2024 Sep 24 (Tue)	23:14 60	05:05 78N	11:55 300
2024 Sep 25 (Wed)		06:04 77N	12:53 300
2024 Sep 26 (Thu)	00:13 61	07:00 78N	13:46 298
2024 Sep 27 (Fri)	01:10 64	07:53 81N	14:33 295
2024 Sep 28 (Sat)	02:04 67	08:42 85N	15:16 290
2024 Sep 29 (Sun)	02:56 72	09:26 90N	15:53 285
2024 Sep 30 (Mon)	03:44 78	10:08 86S	16:28 279
2024 Oct 01 (Tue)	04:31 83	10:48 80S	17:01 274
2024 Oct 02 (Wed)	05:17 89	11:26 74S	17:33 268
2024 Oct 03 (Thu)	06:02 95	12:05 68S	18:06 262
2024 Oct 04 (Fri)	06:48 101	12:45 63S	18:40 256
2024 Oct 05 (Sat)	07:35 107	13:27 58S	19:16 251
2024 Oct 06 (Sun)	08:25 112	14:12 53S	19:56 246
2024 Oct 07 (Mon)	09:18 116	15:00 49S	20:41 243
2024 Oct 08 (Tue)	10:13 118	15:52 47S	21:30 241
2024 Oct 09 (Wed)	11:09 120	16:47 46S	22:25 240
2024 Oct 10 (Thu)	12:05 119	17:43 47S	23:23 241
2024 Oct 11 (Fri)	12:58 117	18:40 49S	
2024 Oct 12 (Sat)	13:49 113	19:35 53S	00:23 244
2024 Oct 13 (Sun)	14:36 108	20:28 59S	01:24 249
2024 Oct 14 (Mon)	15:21 102	21:20 66S	02:24 255
2024 Oct 15 (Tue)	16:04 94	22:11 73S	03:23 262
2024 Oct 16 (Wed)	16:46 86	23:02 81S	04:23 270
2024 Oct 17 (Thu)	17:30 79	23:55 88S	05:23 277
2024 Oct 18 (Fri)	18:17 72		06:25 285
2024 Oct 19 (Sat)	19:08 66	00:51 87N	07:29 291
2024 Oct 20 (Sun)	20:03 62	01:50 82N	08:34 296
2024 Oct 21 (Mon)	21:02 60	02:51 78N	09:40 299
2024 Oct 22 (Tue)	22:03 61	03:52 77N	10:42 300
2024 Oct 23 (Wed)	23:02 63	04:52 78N	11:39 299
2024 Oct 24 (Thu)	23:59 66	05:47 80N	12:30 296
2024 Oct 25 (Fri)		06:38 84N	13:14 292
2024 Oct 26 (Sat)	00:52 70	07:24 88N	13:54 287
2024 Oct 27 (Sun)	01:41 76	08:07 88S	14:29 281
2024 Oct 28 (Mon)	02:28 81	08:47 82S	15:03 276
2024 Oct 29 (Tue)	03:14 87	09:26 76S	15:35 270
2024 Oct 30 (Wed)	03:59 93	10:05 70S	16:07 264
2024 Oct 31 (Thu)	04:45 99	10:44 65S	16:41 258
2024 Nov 01 (Fri)	05:32 105	11:26 59S	17:16 252
2024 Nov 02 (Sat)	06:22 110	12:10 54S	17:55 248
2024 Nov 03 (Sun)	07:14 114	12:57 51S	18:39 244
2024 Nov 04 (Mon)	08:08 118	13:48 48S	19:27 241
2024 Nov 05 (Tue)	09:04 119	14:42 46S	20:20 240
2024 Nov 06 (Wed)	10:00 120	15:38 47S	21:17 241

2024 Nov 07 (Thu)	10:53 118	16:34 48S	22:15 243
2024 Nov 08 (Fri)	11:44 115	17:28 52S	23:14 247
2024 Nov 09 (Sat)	12:31 110	18:20 57S	
2024 Nov 10 (Sun)	13:14 104	19:10 63S	00:13 252
2024 Nov 11 (Mon)	13:56 98	19:59 70S	01:10 259
2024 Nov 12 (Tue)	14:37 90	20:48 77S	02:07 266
2024 Nov 13 (Wed)	15:19 83	21:39 84S	03:04 274
2024 Nov 14 (Thu)	16:03 76	22:32 90N	04:03 281
2024 Nov 15 (Fri)	16:52 69	23:29 84N	05:06 288
2024 Nov 16 (Sat)	17:45 64		06:11 294
2024 Nov 17 (Sun)	18:44 61	00:30 80N	07:18 298
2024 Nov 18 (Mon)	19:45 60	01:33 78N	08:23 299
2024 Nov 19 (Tue)	20:47 62	02:36 77N	09:25 299
2024 Nov 20 (Wed)	21:47 65	03:35 79N	10:20 297
2024 Nov 21 (Thu)	22:43 69	04:29 82N	11:08 293
2024 Nov 22 (Fri)	23:35 74	05:19 87N	11:51 289
2024 Nov 23 (Sat)		06:03 90S	12:28 283
2024 Nov 24 (Sun)	00:24 79	06:45 84S	13:03 278
2024 Nov 25 (Mon)	01:10 85	07:24 78S	13:35 272
2024 Nov 26 (Tue)	01:55 91	08:03 72S	14:08 266
2024 Nov 27 (Wed)	02:41 97	08:42 67S	14:41 260
2024 Nov 28 (Thu)	03:27 103	09:23 61S	15:15 254
2024 Nov 29 (Fri)	04:16 108	10:06 56S	15:53 249
2024 Nov 30 (Sat)	05:07 113	10:53 52S	16:36 245
2024 Dec 01 (Sun)	06:02 117	11:43 49S	17:23 242
2024 Dec 02 (Mon)	06:58 119	12:37 47S	18:15 241
2024 Dec 03 (Tue)	07:55 120	13:33 46S	19:12 241
2024 Dec 04 (Wed)	08:50 119	14:29 48S	20:10 242
2024 Dec 05 (Thu)	09:41 116	15:24 51S	21:09 246
2024 Dec 06 (Fri)	10:29 112	16:17 55S	22:07 251
2024 Dec 07 (Sat)	11:13 106	17:07 61S	23:04 257
2024 Dec 08 (Sun)	11:54 100	17:55 67S	23:59 264
2024 Dec 09 (Mon)	12:34 93	18:42 74S	
2024 Dec 10 (Tue)	13:14 85	19:30 81S	00:54 271
2024 Dec 11 (Wed)	13:55 78	20:20 88S	01:51 278
2024 Dec 12 (Thu)	14:40 72	21:13 87N	02:49 285
2024 Dec 13 (Fri)	15:30 66	22:11 82N	03:51 291
2024 Dec 14 (Sat)	16:25 63	23:12 79N	04:56 296
2024 Dec 15 (Sun)	17:25 61		06:02 299
2024 Dec 16 (Mon)	18:28 61	00:15 77N	07:06 300
2024 Dec 17 (Tue)	19:30 63	01:17 78N	08:05 298
2024 Dec 18 (Wed)	20:29 67	02:15 81N	08:57 295
2024 Dec 19 (Thu)	21:24 72	03:08 85N	09:43 291
2024 Dec 20 (Fri)	22:15 77	03:56 90N	10:24 285
2024 Dec 21 (Sat)	23:03 83	04:40 86S	11:00 280
2024 Dec 22 (Sun)	23:49 89	05:20 80S	11:34 274
2024 Dec 23 (Mon)		06:00 74S	12:06 268
2024 Dec 24 (Tue)	00:35 95	06:38 69S	12:39 262
2024 Dec 25 (Wed)	01:21 101	07:18 63S	13:13 256
2024 Dec 26 (Thu)	02:08 107	08:00 58S	13:50 251
2024 Dec 27 (Fri)	02:59 111	08:45 53S	14:30 247
2024 Dec 28 (Sat)	03:52 115	09:34 50S	15:15 243
2024 Dec 29 (Sun)	04:48 118	10:27 47S	16:06 241
2024 Dec 30 (Mon)	05:45 120	11:23 46S	17:02 240
2024 Dec 31 (Tue)	06:42 119	12:21 47S	18:01 242