

Sun

Surat Thani

Location: E 99°17'59.9", N 9°11'16.8", 0m
(Longitude referred to Greenwich meridian)

Time Zone: 7h 00m east of Greenwich

Date (Zone)			Begin Nautical Twilight	Rise	Az.	Transit Alt.	Set	Az.	End Nautical Twilight
			h m	h m	°	h m °	h m °		h m
2024	Jan	01 (Mon)	05:49	06:38	113	12:26 58S	18:14	247	19:03
2024	Jan	02 (Tue)	05:49	06:38	113	12:26 59S	18:15	247	19:03
2024	Jan	03 (Wed)	05:50	06:39	113	12:27 59S	18:15	247	19:04
2024	Jan	04 (Thu)	05:50	06:39	113	12:27 59S	18:16	247	19:04
2024	Jan	05 (Fri)	05:51	06:40	113	12:28 59S	18:16	247	19:05
2024	Jan	06 (Sat)	05:51	06:40	113	12:28 59S	18:17	247	19:05
2024	Jan	07 (Sun)	05:52	06:40	113	12:29 59S	18:17	247	19:06
2024	Jan	08 (Mon)	05:52	06:41	113	12:29 59S	18:18	248	19:06
2024	Jan	09 (Tue)	05:52	06:41	112	12:30 59S	18:18	248	19:07
2024	Jan	10 (Wed)	05:53	06:41	112	12:30 59S	18:19	248	19:07
2024	Jan	11 (Thu)	05:53	06:42	112	12:30 60S	18:19	248	19:08
2024	Jan	12 (Fri)	05:53	06:42	112	12:31 60S	18:20	248	19:08
2024	Jan	13 (Sat)	05:54	06:42	112	12:31 60S	18:20	248	19:09
2024	Jan	14 (Sun)	05:54	06:42	112	12:32 60S	18:21	249	19:09
2024	Jan	15 (Mon)	05:54	06:43	111	12:32 60S	18:21	249	19:10
2024	Jan	16 (Tue)	05:55	06:43	111	12:32 60S	18:22	249	19:10
2024	Jan	17 (Wed)	05:55	06:43	111	12:33 61S	18:22	249	19:10
2024	Jan	18 (Thu)	05:55	06:43	111	12:33 61S	18:23	249	19:11
2024	Jan	19 (Fri)	05:55	06:43	111	12:33 61S	18:23	249	19:11
2024	Jan	20 (Sat)	05:56	06:44	110	12:34 61S	18:24	250	19:12
2024	Jan	21 (Sun)	05:56	06:44	110	12:34 62S	18:24	250	19:12
2024	Jan	22 (Mon)	05:56	06:44	110	12:34 62S	18:25	250	19:12
2024	Jan	23 (Tue)	05:56	06:44	110	12:34 62S	18:25	250	19:13
2024	Jan	24 (Wed)	05:56	06:44	110	12:35 62S	18:25	251	19:13
2024	Jan	25 (Thu)	05:56	06:44	109	12:35 62S	18:26	251	19:13
2024	Jan	26 (Fri)	05:57	06:44	109	12:35 63S	18:26	251	19:14
2024	Jan	27 (Sat)	05:57	06:44	109	12:35 63S	18:27	251	19:14
2024	Jan	28 (Sun)	05:57	06:44	108	12:36 63S	18:27	252	19:14
2024	Jan	29 (Mon)	05:57	06:44	108	12:36 63S	18:27	252	19:15
2024	Jan	30 (Tue)	05:57	06:44	108	12:36 64S	18:28	252	19:15
2024	Jan	31 (Wed)	05:57	06:44	108	12:36 64S	18:28	252	19:15
2024	Feb	01 (Thu)	05:57	06:44	107	12:36 64S	18:28	253	19:16
2024	Feb	02 (Fri)	05:57	06:44	107	12:36 65S	18:29	253	19:16
2024	Feb	03 (Sat)	05:57	06:44	107	12:37 65S	18:29	253	19:16
2024	Feb	04 (Sun)	05:57	06:44	107	12:37 65S	18:29	254	19:16
2024	Feb	05 (Mon)	05:57	06:44	106	12:37 65S	18:30	254	19:17
2024	Feb	06 (Tue)	05:57	06:44	106	12:37 66S	18:30	254	19:17
2024	Feb	07 (Wed)	05:57	06:44	106	12:37 66S	18:30	255	19:17
2024	Feb	08 (Thu)	05:57	06:43	105	12:37 66S	18:30	255	19:17
2024	Feb	09 (Fri)	05:57	06:43	105	12:37 67S	18:31	255	19:17
2024	Feb	10 (Sat)	05:57	06:43	105	12:37 67S	18:31	256	19:17
2024	Feb	11 (Sun)	05:56	06:43	104	12:37 67S	18:31	256	19:18
2024	Feb	12 (Mon)	05:56	06:43	104	12:37 68S	18:31	256	19:18
2024	Feb	13 (Tue)	05:56	06:42	104	12:37 68S	18:32	257	19:18
2024	Feb	14 (Wed)	05:56	06:42	103	12:37 68S	18:32	257	19:18
2024	Feb	15 (Thu)	05:56	06:42	103	12:37 69S	18:32	257	19:18
2024	Feb	16 (Fri)	05:56	06:42	103	12:37 69S	18:32	258	19:18
2024	Feb	17 (Sat)	05:55	06:41	102	12:37 69S	18:32	258	19:18
2024	Feb	18 (Sun)	05:55	06:41	102	12:37 70S	18:32	258	19:19
2024	Feb	19 (Mon)	05:55	06:41	102	12:37 70S	18:33	259	19:19
2024	Feb	20 (Tue)	05:55	06:40	101	12:37 70S	18:33	259	19:19
2024	Feb	21 (Wed)	05:54	06:40	101	12:36 71S	18:33	259	19:19
2024	Feb	22 (Thu)	05:54	06:40	100	12:36 71S	18:33	260	19:19
2024	Feb	23 (Fri)	05:54	06:39	100	12:36 72S	18:33	260	19:19
2024	Feb	24 (Sat)	05:53	06:39	100	12:36 72S	18:33	260	19:19
2024	Feb	25 (Sun)	05:53	06:39	99	12:36 72S	18:33	261	19:19
2024	Feb	26 (Mon)	05:53	06:38	99	12:36 73S	18:33	261	19:19
2024	Feb	27 (Tue)	05:52	06:38	99	12:36 73S	18:33	262	19:19
2024	Feb	28 (Wed)	05:52	06:37	98	12:35 73S	18:34	262	19:19
2024	Feb	29 (Thu)	05:51	06:37	98	12:35 74S	18:34	262	19:19

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

2024	May	12	(Sun)	05:15	06:03	71	12:19	82N	18:35	289	19:23
2024	May	13	(Mon)	05:15	06:03	71	12:19	81N	18:35	289	19:23
2024	May	14	(Tue)	05:15	06:03	71	12:19	81N	18:35	289	19:24
2024	May	15	(Wed)	05:15	06:03	71	12:19	81N	18:36	289	19:24
2024	May	16	(Thu)	05:14	06:03	70	12:19	81N	18:36	290	19:24
2024	May	17	(Fri)	05:14	06:03	70	12:19	80N	18:36	290	19:24
2024	May	18	(Sat)	05:14	06:02	70	12:19	80N	18:36	290	19:25
2024	May	19	(Sun)	05:14	06:02	70	12:19	80N	18:36	290	19:25
2024	May	20	(Mon)	05:14	06:02	70	12:19	80N	18:37	291	19:25
2024	May	21	(Tue)	05:13	06:02	69	12:19	80N	18:37	291	19:26
2024	May	22	(Wed)	05:13	06:02	69	12:20	79N	18:37	291	19:26
2024	May	23	(Thu)	05:13	06:02	69	12:20	79N	18:37	291	19:26
2024	May	24	(Fri)	05:13	06:02	69	12:20	79N	18:37	291	19:26
2024	May	25	(Sat)	05:13	06:02	69	12:20	79N	18:38	292	19:27
2024	May	26	(Sun)	05:13	06:02	68	12:20	79N	18:38	292	19:27
2024	May	27	(Mon)	05:13	06:02	68	12:20	79N	18:38	292	19:27
2024	May	28	(Tue)	05:13	06:02	68	12:20	78N	18:38	292	19:28
2024	May	29	(Wed)	05:13	06:02	68	12:20	78N	18:39	292	19:28
2024	May	30	(Thu)	05:13	06:02	68	12:20	78N	18:39	292	19:28
2024	May	31	(Fri)	05:13	06:02	68	12:21	78N	18:39	292	19:29
2024	Jun	01	(Sat)	05:13	06:02	67	12:21	78N	18:39	293	19:29
2024	Jun	02	(Sun)	05:13	06:02	67	12:21	78N	18:40	293	19:29
2024	Jun	03	(Mon)	05:13	06:02	67	12:21	78N	18:40	293	19:30
2024	Jun	04	(Tue)	05:13	06:02	67	12:21	77N	18:40	293	19:30
2024	Jun	05	(Wed)	05:13	06:02	67	12:21	77N	18:41	293	19:30
2024	Jun	06	(Thu)	05:13	06:02	67	12:22	77N	18:41	293	19:30
2024	Jun	07	(Fri)	05:13	06:02	67	12:22	77N	18:41	293	19:31
2024	Jun	08	(Sat)	05:13	06:03	67	12:22	77N	18:41	293	19:31
2024	Jun	09	(Sun)	05:13	06:03	67	12:22	77N	18:42	293	19:31
2024	Jun	10	(Mon)	05:13	06:03	67	12:22	77N	18:42	294	19:32
2024	Jun	11	(Tue)	05:13	06:03	66	12:23	77N	18:42	294	19:32
2024	Jun	12	(Wed)	05:13	06:03	66	12:23	77N	18:42	294	19:32
2024	Jun	13	(Thu)	05:13	06:03	66	12:23	77N	18:43	294	19:33
2024	Jun	14	(Fri)	05:14	06:03	66	12:23	77N	18:43	294	19:33
2024	Jun	15	(Sat)	05:14	06:04	66	12:23	77N	18:43	294	19:33
2024	Jun	16	(Sun)	05:14	06:04	66	12:24	77N	18:43	294	19:33
2024	Jun	17	(Mon)	05:14	06:04	66	12:24	77N	18:44	294	19:34
2024	Jun	18	(Tue)	05:14	06:04	66	12:24	76N	18:44	294	19:34
2024	Jun	19	(Wed)	05:14	06:04	66	12:24	76N	18:44	294	19:34
2024	Jun	20	(Thu)	05:15	06:05	66	12:24	76N	18:44	294	19:34
2024	Jun	21	(Fri)	05:15	06:05	66	12:25	76N	18:44	294	19:34
2024	Jun	22	(Sat)	05:15	06:05	66	12:25	76N	18:45	294	19:35
2024	Jun	23	(Sun)	05:15	06:05	66	12:25	76N	18:45	294	19:35
2024	Jun	24	(Mon)	05:16	06:06	66	12:25	76N	18:45	294	19:35
2024	Jun	25	(Tue)	05:16	06:06	66	12:26	77N	18:45	294	19:35
2024	Jun	26	(Wed)	05:16	06:06	66	12:26	77N	18:45	294	19:35
2024	Jun	27	(Thu)	05:16	06:06	66	12:26	77N	18:46	294	19:36
2024	Jun	28	(Fri)	05:17	06:06	66	12:26	77N	18:46	294	19:36
2024	Jun	29	(Sat)	05:17	06:07	66	12:26	77N	18:46	294	19:36
2024	Jun	30	(Sun)	05:17	06:07	66	12:27	77N	18:46	294	19:36
2024	Jul	01	(Mon)	05:17	06:07	66	12:27	77N	18:46	294	19:36
2024	Jul	02	(Tue)	05:18	06:07	67	12:27	77N	18:46	293	19:36
2024	Jul	03	(Wed)	05:18	06:08	67	12:27	77N	18:46	293	19:36
2024	Jul	04	(Thu)	05:18	06:08	67	12:27	77N	18:47	293	19:36
2024	Jul	05	(Fri)	05:18	06:08	67	12:27	77N	18:47	293	19:36
2024	Jul	06	(Sat)	05:19	06:08	67	12:28	77N	18:47	293	19:36
2024	Jul	07	(Sun)	05:19	06:09	67	12:28	77N	18:47	293	19:36
2024	Jul	08	(Mon)	05:19	06:09	67	12:28	77N	18:47	293	19:36
2024	Jul	09	(Tue)	05:20	06:09	67	12:28	78N	18:47	293	19:36
2024	Jul	10	(Wed)	05:20	06:09	67	12:28	78N	18:47	293	19:36
2024	Jul	11	(Thu)	05:20	06:10	67	12:28	78N	18:47	292	19:36
2024	Jul	12	(Fri)	05:21	06:10	68	12:29	78N	18:47	292	19:36
2024	Jul	13	(Sat)	05:21	06:10	68	12:29	78N	18:47	292	19:36
2024	Jul	14	(Sun)	05:21	06:10	68	12:29	78N	18:47	292	19:36
2024	Jul	15	(Mon)	05:21	06:11	68	12:29	78N	18:47	292	19:36
2024	Jul	16	(Tue)	05:22	06:11	68	12:29	79N	18:47	292	19:36
2024	Jul	17	(Wed)	05:22	06:11	68	12:29	79N	18:47	291	19:36
2024	Jul	18	(Thu)	05:22	06:11	69	12:29	79N	18:47	291	19:36
2024	Jul	19	(Fri)	05:22	06:11	69	12:29	79N	18:47	291	19:36
2024	Jul	20	(Sat)	05:23	06:12	69	12:29	79N	18:47	291	19:36
2024	Jul	21	(Sun)	05:23	06:12	69	12:29	80N	18:47	291	19:35
2024	Jul	22	(Mon)	05:23	06:12	69	12:29	80N	18:46	291	19:35

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

2024	Oct	03	(Thu)	05:26	06:11	94	12:12	77S	18:12	266	18:58
2024	Oct	04	(Fri)	05:26	06:11	94	12:11	77S	18:12	265	18:57
2024	Oct	05	(Sat)	05:26	06:11	95	12:11	77S	18:11	265	18:57
2024	Oct	06	(Sun)	05:26	06:11	95	12:11	76S	18:11	265	18:56
2024	Oct	07	(Mon)	05:25	06:11	96	12:11	76S	18:10	264	18:56
2024	Oct	08	(Tue)	05:25	06:11	96	12:10	75S	18:10	264	18:55
2024	Oct	09	(Wed)	05:25	06:11	96	12:10	75S	18:09	264	18:55
2024	Oct	10	(Thu)	05:25	06:11	97	12:10	75S	18:09	263	18:54
2024	Oct	11	(Fri)	05:25	06:11	97	12:09	74S	18:08	263	18:54
2024	Oct	12	(Sat)	05:25	06:11	97	12:09	74S	18:08	262	18:53
2024	Oct	13	(Sun)	05:25	06:11	98	12:09	74S	18:07	262	18:53
2024	Oct	14	(Mon)	05:25	06:11	98	12:09	73S	18:07	262	18:52
2024	Oct	15	(Tue)	05:25	06:11	99	12:09	73S	18:06	261	18:52
2024	Oct	16	(Wed)	05:25	06:11	99	12:08	72S	18:06	261	18:51
2024	Oct	17	(Thu)	05:25	06:11	99	12:08	72S	18:05	260	18:51
2024	Oct	18	(Fri)	05:25	06:11	100	12:08	72S	18:05	260	18:51
2024	Oct	19	(Sat)	05:25	06:11	100	12:08	71S	18:04	260	18:50
2024	Oct	20	(Sun)	05:25	06:11	100	12:08	71S	18:04	259	18:50
2024	Oct	21	(Mon)	05:25	06:11	101	12:07	71S	18:04	259	18:50
2024	Oct	22	(Tue)	05:25	06:11	101	12:07	70S	18:03	259	18:49
2024	Oct	23	(Wed)	05:25	06:11	102	12:07	70S	18:03	258	18:49
2024	Oct	24	(Thu)	05:25	06:11	102	12:07	70S	18:02	258	18:49
2024	Oct	25	(Fri)	05:25	06:11	102	12:07	69S	18:02	258	18:48
2024	Oct	26	(Sat)	05:25	06:12	103	12:07	69S	18:02	257	18:48
2024	Oct	27	(Sun)	05:25	06:12	103	12:07	69S	18:02	257	18:48
2024	Oct	28	(Mon)	05:25	06:12	103	12:07	68S	18:01	257	18:48
2024	Oct	29	(Tue)	05:26	06:12	104	12:06	68S	18:01	256	18:47
2024	Oct	30	(Wed)	05:26	06:12	104	12:06	68S	18:01	256	18:47
2024	Oct	31	(Thu)	05:26	06:12	104	12:06	67S	18:00	256	18:47
2024	Nov	01	(Fri)	05:26	06:12	105	12:06	67S	18:00	255	18:47
2024	Nov	02	(Sat)	05:26	06:13	105	12:06	67S	18:00	255	18:47
2024	Nov	03	(Sun)	05:26	06:13	105	12:06	66S	18:00	255	18:46
2024	Nov	04	(Mon)	05:26	06:13	106	12:06	66S	18:00	254	18:46
2024	Nov	05	(Tue)	05:26	06:13	106	12:06	66S	17:59	254	18:46
2024	Nov	06	(Wed)	05:27	06:14	106	12:06	65S	17:59	254	18:46
2024	Nov	07	(Thu)	05:27	06:14	106	12:06	65S	17:59	253	18:46
2024	Nov	08	(Fri)	05:27	06:14	107	12:07	65S	17:59	253	18:46
2024	Nov	09	(Sat)	05:27	06:14	107	12:07	65S	17:59	253	18:46
2024	Nov	10	(Sun)	05:27	06:15	107	12:07	64S	17:59	253	18:46
2024	Nov	11	(Mon)	05:28	06:15	108	12:07	64S	17:59	252	18:46
2024	Nov	12	(Tue)	05:28	06:15	108	12:07	64S	17:59	252	18:46
2024	Nov	13	(Wed)	05:28	06:16	108	12:07	63S	17:59	252	18:46
2024	Nov	14	(Thu)	05:28	06:16	108	12:07	63S	17:59	251	18:46
2024	Nov	15	(Fri)	05:29	06:16	109	12:07	63S	17:58	251	18:46
2024	Nov	16	(Sat)	05:29	06:17	109	12:08	63S	17:59	251	18:46
2024	Nov	17	(Sun)	05:29	06:17	109	12:08	62S	17:59	251	18:46
2024	Nov	18	(Mon)	05:30	06:17	109	12:08	62S	17:59	250	18:46
2024	Nov	19	(Tue)	05:30	06:18	110	12:08	62S	17:59	250	18:46
2024	Nov	20	(Wed)	05:30	06:18	110	12:08	62S	17:59	250	18:47
2024	Nov	21	(Thu)	05:31	06:19	110	12:09	62S	17:59	250	18:47
2024	Nov	22	(Fri)	05:31	06:19	110	12:09	61S	17:59	250	18:47
2024	Nov	23	(Sat)	05:31	06:19	111	12:09	61S	17:59	249	18:47
2024	Nov	24	(Sun)	05:32	06:20	111	12:10	61S	17:59	249	18:47
2024	Nov	25	(Mon)	05:32	06:20	111	12:10	61S	17:59	249	18:48
2024	Nov	26	(Tue)	05:32	06:21	111	12:10	60S	18:00	249	18:48
2024	Nov	27	(Wed)	05:33	06:21	111	12:10	60S	18:00	249	18:48
2024	Nov	28	(Thu)	05:33	06:22	111	12:11	60S	18:00	248	18:48
2024	Nov	29	(Fri)	05:34	06:22	112	12:11	60S	18:00	248	18:49
2024	Nov	30	(Sat)	05:34	06:23	112	12:12	60S	18:00	248	18:49
2024	Dec	01	(Sun)	05:34	06:23	112	12:12	60S	18:01	248	18:49
2024	Dec	02	(Mon)	05:35	06:24	112	12:12	59S	18:01	248	18:50
2024	Dec	03	(Tue)	05:35	06:24	112	12:13	59S	18:01	248	18:50
2024	Dec	04	(Wed)	05:36	06:25	112	12:13	59S	18:02	248	18:50
2024	Dec	05	(Thu)	05:36	06:25	113	12:13	59S	18:02	247	18:51
2024	Dec	06	(Fri)	05:37	06:26	113	12:14	59S	18:02	247	18:51
2024	Dec	07	(Sat)	05:37	06:26	113	12:14	59S	18:03	247	18:51
2024	Dec	08	(Sun)	05:38	06:27	113	12:15	59S	18:03	247	18:52
2024	Dec	09	(Mon)	05:38	06:27	113	12:15	59S	18:03	247	18:52
2024	Dec	10	(Tue)	05:39	06:28	113	12:16	59S	18:04	247	18:53
2024	Dec	11	(Wed)	05:39	06:28	113	12:16	58S	18:04	247	18:53
2024	Dec	12	(Thu)	05:40	06:29	113	12:17	58S	18:05	247	18:54
2024	Dec	13	(Fri)	05:40	06:29	113	12:17	58S	18:05	247	18:54

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

Sun

Surat Thani

Location: E 99°17'59.9", N 9°11'16.8", 0m
(Longitude referred to Greenwich meridian)

Time Zone: 7h 00m east of Greenwich

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

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

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

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

2024	Sep	14	(Sat)	05:52	06:13	87	12:18	85S	18:24	273	18:45
2024	Sep	15	(Sun)	05:52	06:13	87	12:18	84S	18:23	273	18:44
2024	Sep	16	(Mon)	05:52	06:13	87	12:18	84S	18:22	273	18:43
2024	Sep	17	(Tue)	05:52	06:13	88	12:17	84S	18:22	272	18:43
2024	Sep	18	(Wed)	05:51	06:12	88	12:17	83S	18:21	272	18:42
2024	Sep	19	(Thu)	05:51	06:12	88	12:17	83S	18:21	271	18:41
2024	Sep	20	(Fri)	05:51	06:12	89	12:16	82S	18:20	271	18:41
2024	Sep	21	(Sat)	05:51	06:12	89	12:16	82S	18:19	271	18:40
2024	Sep	22	(Sun)	05:51	06:12	90	12:15	82S	18:19	270	18:40
2024	Sep	23	(Mon)	05:51	06:12	90	12:15	81S	18:18	270	18:39
2024	Sep	24	(Tue)	05:51	06:12	90	12:15	81S	18:18	269	18:38
2024	Sep	25	(Wed)	05:51	06:12	91	12:14	80S	18:17	269	18:38
2024	Sep	26	(Thu)	05:51	06:12	91	12:14	80S	18:16	269	18:37
2024	Sep	27	(Fri)	05:51	06:12	92	12:14	80S	18:16	268	18:37
2024	Sep	28	(Sat)	05:51	06:11	92	12:13	79S	18:15	268	18:36
2024	Sep	29	(Sun)	05:50	06:11	92	12:13	79S	18:15	267	18:36
2024	Sep	30	(Mon)	05:50	06:11	93	12:13	79S	18:14	267	18:35
2024	Oct	01	(Tue)	05:50	06:11	93	12:12	78S	18:13	267	18:34
2024	Oct	02	(Wed)	05:50	06:11	94	12:12	78S	18:13	266	18:34
2024	Oct	03	(Thu)	05:50	06:11	94	12:12	77S	18:12	266	18:33
2024	Oct	04	(Fri)	05:50	06:11	94	12:11	77S	18:12	265	18:33
2024	Oct	05	(Sat)	05:50	06:11	95	12:11	77S	18:11	265	18:32
2024	Oct	06	(Sun)	05:50	06:11	95	12:11	76S	18:11	265	18:32
2024	Oct	07	(Mon)	05:50	06:11	96	12:11	76S	18:10	264	18:31
2024	Oct	08	(Tue)	05:50	06:11	96	12:10	75S	18:10	264	18:31
2024	Oct	09	(Wed)	05:50	06:11	96	12:10	75S	18:09	264	18:30
2024	Oct	10	(Thu)	05:50	06:11	97	12:10	75S	18:09	263	18:30
2024	Oct	11	(Fri)	05:50	06:11	97	12:09	74S	18:08	263	18:29
2024	Oct	12	(Sat)	05:50	06:11	97	12:09	74S	18:08	262	18:29
2024	Oct	13	(Sun)	05:50	06:11	98	12:09	74S	18:07	262	18:28
2024	Oct	14	(Mon)	05:50	06:11	98	12:09	73S	18:07	262	18:28
2024	Oct	15	(Tue)	05:50	06:11	99	12:09	73S	18:06	261	18:27
2024	Oct	16	(Wed)	05:50	06:11	99	12:08	72S	18:06	261	18:27
2024	Oct	17	(Thu)	05:50	06:11	99	12:08	72S	18:05	260	18:26
2024	Oct	18	(Fri)	05:50	06:11	100	12:08	72S	18:05	260	18:26
2024	Oct	19	(Sat)	05:50	06:11	100	12:08	71S	18:04	260	18:26
2024	Oct	20	(Sun)	05:50	06:11	100	12:08	71S	18:04	259	18:25
2024	Oct	21	(Mon)	05:50	06:11	101	12:07	71S	18:04	259	18:25
2024	Oct	22	(Tue)	05:50	06:11	101	12:07	70S	18:03	259	18:25
2024	Oct	23	(Wed)	05:50	06:11	102	12:07	70S	18:03	258	18:24
2024	Oct	24	(Thu)	05:50	06:11	102	12:07	70S	18:02	258	18:24
2024	Oct	25	(Fri)	05:50	06:11	102	12:07	69S	18:02	258	18:24
2024	Oct	26	(Sat)	05:50	06:12	103	12:07	69S	18:02	257	18:23
2024	Oct	27	(Sun)	05:50	06:12	103	12:07	69S	18:02	257	18:23
2024	Oct	28	(Mon)	05:50	06:12	103	12:07	68S	18:01	257	18:23
2024	Oct	29	(Tue)	05:50	06:12	104	12:06	68S	18:01	256	18:22
2024	Oct	30	(Wed)	05:51	06:12	104	12:06	68S	18:01	256	18:22
2024	Oct	31	(Thu)	05:51	06:12	104	12:06	67S	18:00	256	18:22
2024	Nov	01	(Fri)	05:51	06:12	105	12:06	67S	18:00	255	18:22
2024	Nov	02	(Sat)	05:51	06:13	105	12:06	67S	18:00	255	18:22
2024	Nov	03	(Sun)	05:51	06:13	105	12:06	66S	18:00	255	18:21
2024	Nov	04	(Mon)	05:51	06:13	106	12:06	66S	18:00	254	18:21
2024	Nov	05	(Tue)	05:52	06:13	106	12:06	66S	17:59	254	18:21
2024	Nov	06	(Wed)	05:52	06:14	106	12:06	65S	17:59	254	18:21
2024	Nov	07	(Thu)	05:52	06:14	106	12:06	65S	17:59	253	18:21
2024	Nov	08	(Fri)	05:52	06:14	107	12:07	65S	17:59	253	18:21
2024	Nov	09	(Sat)	05:53	06:14	107	12:07	65S	17:59	253	18:21
2024	Nov	10	(Sun)	05:53	06:15	107	12:07	64S	17:59	253	18:21
2024	Nov	11	(Mon)	05:53	06:15	108	12:07	64S	17:59	252	18:21
2024	Nov	12	(Tue)	05:53	06:15	108	12:07	64S	17:59	252	18:21
2024	Nov	13	(Wed)	05:54	06:16	108	12:07	63S	17:59	252	18:21
2024	Nov	14	(Thu)	05:54	06:16	108	12:07	63S	17:59	251	18:21
2024	Nov	15	(Fri)	05:54	06:16	109	12:07	63S	17:58	251	18:21
2024	Nov	16	(Sat)	05:55	06:17	109	12:08	63S	17:59	251	18:21
2024	Nov	17	(Sun)	05:55	06:17	109	12:08	62S	17:59	251	18:21
2024	Nov	18	(Mon)	05:55	06:17	109	12:08	62S	17:59	250	18:21
2024	Nov	19	(Tue)	05:56	06:18	110	12:08	62S	17:59	250	18:21
2024	Nov	20	(Wed)	05:56	06:18	110	12:08	62S	17:59	250	18:21
2024	Nov	21	(Thu)	05:56	06:19	110	12:09	62S	17:59	250	18:21
2024	Nov	22	(Fri)	05:57	06:19	110	12:09	61S	17:59	250	18:21
2024	Nov	23	(Sat)	05:57	06:19	111	12:09	61S	17:59	249	18:21
2024	Nov	24	(Sun)	05:57	06:20	111	12:10	61S	17:59	249	18:22

2024	Nov	25	(Mon)	05:58	06:20	111	12:10	61S	17:59	249	18:22
2024	Nov	26	(Tue)	05:58	06:21	111	12:10	60S	18:00	249	18:22
2024	Nov	27	(Wed)	05:59	06:21	111	12:10	60S	18:00	249	18:22
2024	Nov	28	(Thu)	05:59	06:22	111	12:11	60S	18:00	248	18:22
2024	Nov	29	(Fri)	06:00	06:22	112	12:11	60S	18:00	248	18:23
2024	Nov	30	(Sat)	06:00	06:23	112	12:12	60S	18:00	248	18:23
2024	Dec	01	(Sun)	06:01	06:23	112	12:12	60S	18:01	248	18:23
2024	Dec	02	(Mon)	06:01	06:24	112	12:12	59S	18:01	248	18:24
2024	Dec	03	(Tue)	06:01	06:24	112	12:13	59S	18:01	248	18:24
2024	Dec	04	(Wed)	06:02	06:25	112	12:13	59S	18:02	248	18:24
2024	Dec	05	(Thu)	06:02	06:25	113	12:13	59S	18:02	247	18:25
2024	Dec	06	(Fri)	06:03	06:26	113	12:14	59S	18:02	247	18:25
2024	Dec	07	(Sat)	06:03	06:26	113	12:14	59S	18:03	247	18:25
2024	Dec	08	(Sun)	06:04	06:27	113	12:15	59S	18:03	247	18:26
2024	Dec	09	(Mon)	06:04	06:27	113	12:15	59S	18:03	247	18:26
2024	Dec	10	(Tue)	06:05	06:28	113	12:16	59S	18:04	247	18:26
2024	Dec	11	(Wed)	06:05	06:28	113	12:16	58S	18:04	247	18:27
2024	Dec	12	(Thu)	06:06	06:29	113	12:17	58S	18:05	247	18:27
2024	Dec	13	(Fri)	06:06	06:29	113	12:17	58S	18:05	247	18:28
2024	Dec	14	(Sat)	06:07	06:30	113	12:18	58S	18:05	247	18:28
2024	Dec	15	(Sun)	06:07	06:30	113	12:18	58S	18:06	247	18:29
2024	Dec	16	(Mon)	06:08	06:31	114	12:19	58S	18:06	246	18:29
2024	Dec	17	(Tue)	06:08	06:31	114	12:19	58S	18:07	246	18:30
2024	Dec	18	(Wed)	06:09	06:32	114	12:19	58S	18:07	246	18:30
2024	Dec	19	(Thu)	06:09	06:32	114	12:20	58S	18:08	246	18:30
2024	Dec	20	(Fri)	06:10	06:33	114	12:20	58S	18:08	246	18:31
2024	Dec	21	(Sat)	06:10	06:33	114	12:21	58S	18:09	246	18:31
2024	Dec	22	(Sun)	06:11	06:34	114	12:21	58S	18:09	246	18:32
2024	Dec	23	(Mon)	06:11	06:34	114	12:22	58S	18:10	246	18:32
2024	Dec	24	(Tue)	06:12	06:35	114	12:22	58S	18:10	246	18:33
2024	Dec	25	(Wed)	06:12	06:35	114	12:23	58S	18:11	246	18:33
2024	Dec	26	(Thu)	06:13	06:36	114	12:23	58S	18:11	246	18:34
2024	Dec	27	(Fri)	06:13	06:36	113	12:24	58S	18:12	247	18:35
2024	Dec	28	(Sat)	06:14	06:37	113	12:24	58S	18:12	247	18:35
2024	Dec	29	(Sun)	06:14	06:37	113	12:25	58S	18:13	247	18:36
2024	Dec	30	(Mon)	06:15	06:37	113	12:25	58S	18:13	247	18:36
2024	Dec	31	(Tue)	06:15	06:38	113	12:26	58S	18:14	247	18:37

Moon

Surat Thani

Location: E 99°17'59.9", N 9°11'16.8", 0m
(Longitude referred to Greenwich meridian)

Time Zone: 7h 00m east of Greenwich

Date (Zone)	Rise Az.			Transit Alt.			Set Az.		
	h	m	°	h	m	°	h	m	°
2024 Jan 01 (Mon)	22:39	81		04:14	87N		10:32	282	
2024 Jan 02 (Tue)	23:22	86		04:54	89S		11:08	276	
2024 Jan 03 (Wed)				05:34	84S		11:43	271	
2024 Jan 04 (Thu)	00:05	92		06:13	78S		12:19	265	
2024 Jan 05 (Fri)	00:49	98		06:53	72S		12:56	259	
2024 Jan 06 (Sat)	01:35	104		07:36	66S		13:36	254	
2024 Jan 07 (Sun)	02:24	109		08:23	61S		14:20	249	
2024 Jan 08 (Mon)	03:18	113		09:14	57S		15:10	245	
2024 Jan 09 (Tue)	04:17	117		10:12	54S		16:06	242	
2024 Jan 10 (Wed)	05:19	118		11:13	53S		17:08	241	
2024 Jan 11 (Thu)	06:22	118		12:17	54S		18:12	243	
2024 Jan 12 (Fri)	07:23	116		13:20	56S		19:17	246	
2024 Jan 13 (Sat)	08:20	111		14:19	61S		20:20	251	
2024 Jan 14 (Sun)	09:12	106		15:15	67S		21:19	258	
2024 Jan 15 (Mon)	10:00	99		16:06	74S		22:14	265	
2024 Jan 16 (Tue)	10:45	92		16:55	81S		23:07	272	
2024 Jan 17 (Wed)	11:28	85		17:43	88S		24:00	279	
2024 Jan 18 (Thu)	12:11	78		18:31	87N				
2024 Jan 19 (Fri)	12:56	72		19:20	81N		00:52	285	
2024 Jan 20 (Sat)	13:43	68		20:12	76N		01:46	290	
2024 Jan 21 (Sun)	14:34	64		21:05	73N		02:42	295	
2024 Jan 22 (Mon)	15:27	62		22:01	72N		03:38	297	
2024 Jan 23 (Tue)	16:22	61		22:56	72N		04:35	299	

2024	Jan	24	(Wed)	17:17	63	23:49	73N	05:29	298
2024	Jan	25	(Thu)	18:10	65			06:20	296
2024	Jan	26	(Fri)	19:01	69	00:40	76N	07:07	293
2024	Jan	27	(Sat)	19:49	74	01:27	80N	07:50	289
2024	Jan	28	(Sun)	20:34	79	02:10	85N	08:30	284
2024	Jan	29	(Mon)	21:18	84	02:51	90N	09:07	278
2024	Jan	30	(Tue)	22:00	90	03:31	86S	09:42	273
2024	Jan	31	(Wed)	22:43	96	04:10	80S	10:17	267
2024	Feb	01	(Thu)	23:28	102	04:49	74S	10:53	261
2024	Feb	02	(Fri)			05:30	68S	11:30	256
2024	Feb	03	(Sat)	00:15	107	06:14	63S	12:12	251
2024	Feb	04	(Sun)	01:05	112	07:02	59S	12:58	246
2024	Feb	05	(Mon)	02:00	116	07:55	55S	13:49	243
2024	Feb	06	(Tue)	02:59	118	08:53	53S	14:47	241
2024	Feb	07	(Wed)	04:01	119	09:55	53S	15:50	242
2024	Feb	08	(Thu)	05:03	117	10:58	55S	16:55	244
2024	Feb	09	(Fri)	06:03	114	12:00	59S	17:59	248
2024	Feb	10	(Sat)	06:58	109	12:59	64S	19:01	254
2024	Feb	11	(Sun)	07:49	102	13:53	71S	20:00	261
2024	Feb	12	(Mon)	08:37	95	14:45	78S	20:56	269
2024	Feb	13	(Tue)	09:22	88	15:35	86S	21:51	276
2024	Feb	14	(Wed)	10:07	80	16:25	89N	22:45	283
2024	Feb	15	(Thu)	10:52	74	17:15	83N	23:40	289
2024	Feb	16	(Fri)	11:40	69	18:07	78N		
2024	Feb	17	(Sat)	12:30	65	19:01	74N	00:37	294
2024	Feb	18	(Sun)	13:23	62	19:56	72N	01:34	297
2024	Feb	19	(Mon)	14:17	61	20:51	71N	02:30	299
2024	Feb	20	(Tue)	15:12	62	21:45	72N	03:25	299
2024	Feb	21	(Wed)	16:06	64	22:36	75N	04:17	297
2024	Feb	22	(Thu)	16:57	68	23:24	79N	05:05	294
2024	Feb	23	(Fri)	17:45	72			05:49	290
2024	Feb	24	(Sat)	18:31	77	00:08	83N	06:29	286
2024	Feb	25	(Sun)	19:15	83	00:50	88N	07:06	280
2024	Feb	26	(Mon)	19:58	88	01:30	87S	07:42	275
2024	Feb	27	(Tue)	20:41	94	02:09	82S	08:17	269
2024	Feb	28	(Wed)	21:24	100	02:48	76S	08:52	263
2024	Feb	29	(Thu)	22:10	105	03:28	70S	09:29	257
2024	Mar	01	(Fri)	22:58	110	04:10	65S	10:08	252
2024	Mar	02	(Sat)	23:50	114	04:56	60S	10:52	248
2024	Mar	03	(Sun)			05:46	56S	11:40	244
2024	Mar	04	(Mon)	00:46	117	06:40	53S	12:33	242
2024	Mar	05	(Tue)	01:45	119	07:38	52S	13:32	241
2024	Mar	06	(Wed)	02:45	118	08:39	53S	14:34	242
2024	Mar	07	(Thu)	03:44	116	09:40	56S	15:37	246
2024	Mar	08	(Fri)	04:41	112	10:39	61S	16:40	251
2024	Mar	09	(Sat)	05:33	106	11:36	67S	17:40	257
2024	Mar	10	(Sun)	06:23	99	12:29	74S	18:38	265
2024	Mar	11	(Mon)	07:10	91	13:21	82S	19:35	272
2024	Mar	12	(Tue)	07:56	84	14:12	89S	20:31	280
2024	Mar	13	(Wed)	08:43	77	15:04	85N	21:28	286
2024	Mar	14	(Thu)	09:31	71	15:57	79N	22:26	292
2024	Mar	15	(Fri)	10:22	66	16:53	75N	23:25	296
2024	Mar	16	(Sat)	11:16	63	17:49	72N		
2024	Mar	17	(Sun)	12:11	61	18:46	71N	00:23	298
2024	Mar	18	(Mon)	13:07	61	19:41	72N	01:20	299
2024	Mar	19	(Tue)	14:01	63	20:33	74N	02:14	298
2024	Mar	20	(Wed)	14:54	66	21:22	77N	03:03	295
2024	Mar	21	(Thu)	15:43	70	22:07	81N	03:48	292
2024	Mar	22	(Fri)	16:29	75	22:49	87N	04:29	287
2024	Mar	23	(Sat)	17:14	81	23:29	89S	05:07	282
2024	Mar	24	(Sun)	17:57	86			05:43	277
2024	Mar	25	(Mon)	18:39	92	00:08	84S	06:18	271
2024	Mar	26	(Tue)	19:23	98	00:47	78S	06:53	265
2024	Mar	27	(Wed)	20:08	104	01:27	72S	07:30	259
2024	Mar	28	(Thu)	20:55	109	02:09	66S	08:08	254
2024	Mar	29	(Fri)	21:46	113	02:53	61S	08:50	249
2024	Mar	30	(Sat)	22:40	117	03:42	57S	09:36	245
2024	Mar	31	(Sun)	23:37	119	04:34	54S	10:27	242
2024	Apr	01	(Mon)			05:30	53S	11:23	241
2024	Apr	02	(Tue)	00:35	119	06:28	53S	12:22	242
2024	Apr	03	(Wed)	01:33	117	07:27	55S	13:23	244
2024	Apr	04	(Thu)	02:28	114	08:25	58S	14:23	248

2024 Apr 05 (Fri)	03:21 109	09:21 64S	15:22 254
2024 Apr 06 (Sat)	04:10 103	10:14 70S	16:20 261
2024 Apr 07 (Sun)	04:57 95	11:05 78S	17:16 268
2024 Apr 08 (Mon)	05:43 88	11:56 85S	18:12 276
2024 Apr 09 (Tue)	06:29 81	12:48 89N	19:09 283
2024 Apr 10 (Wed)	07:18 74	13:41 82N	20:08 289
2024 Apr 11 (Thu)	08:09 68	14:37 77N	21:08 294
2024 Apr 12 (Fri)	09:03 64	15:35 73N	22:09 298
2024 Apr 13 (Sat)	10:00 62	16:34 71N	23:09 299
2024 Apr 14 (Sun)	10:57 61	17:32 71N	
2024 Apr 15 (Mon)	11:54 62	18:26 73N	00:06 298
2024 Apr 16 (Tue)	12:48 65	19:17 76N	00:58 296
2024 Apr 17 (Wed)	13:38 69	20:04 80N	01:45 293
2024 Apr 18 (Thu)	14:26 73	20:47 85N	02:28 289
2024 Apr 19 (Fri)	15:11 79	21:28 90N	03:07 284
2024 Apr 20 (Sat)	15:54 84	22:07 86S	03:43 278
2024 Apr 21 (Sun)	16:37 90	22:46 80S	04:19 273
2024 Apr 22 (Mon)	17:20 96	23:26 74S	04:54 267
2024 Apr 23 (Tue)	18:05 102		05:30 261
2024 Apr 24 (Wed)	18:52 107	00:07 68S	06:07 255
2024 Apr 25 (Thu)	19:42 112	00:51 63S	06:49 250
2024 Apr 26 (Fri)	20:35 116	01:38 58S	07:34 246
2024 Apr 27 (Sat)	21:32 118	02:30 55S	08:23 243
2024 Apr 28 (Sun)	22:30 119	03:25 53S	09:18 241
2024 Apr 29 (Mon)	23:27 118	04:23 52S	10:16 241
2024 Apr 30 (Tue)		05:21 54S	11:16 243
2024 May 01 (Wed)	00:22 115	06:18 57S	12:15 247
2024 May 02 (Thu)	01:14 111	07:13 62S	13:13 252
2024 May 03 (Fri)	02:03 105	08:05 68S	14:09 258
2024 May 04 (Sat)	02:49 99	08:55 75S	15:03 265
2024 May 05 (Sun)	03:33 91	09:44 82S	15:57 272
2024 May 06 (Mon)	04:18 84	10:34 89S	16:53 280
2024 May 07 (Tue)	05:05 77	11:26 85N	17:50 286
2024 May 08 (Wed)	05:54 71	12:20 79N	18:49 292
2024 May 09 (Thu)	06:47 66	13:18 75N	19:51 296
2024 May 10 (Fri)	07:43 63	14:17 72N	20:52 298
2024 May 11 (Sat)	08:42 61	15:17 71N	21:52 299
2024 May 12 (Sun)	09:41 62	16:15 72N	22:48 297
2024 May 13 (Mon)	10:37 64	17:09 75N	23:38 295
2024 May 14 (Tue)	11:31 67	17:58 78N	
2024 May 15 (Wed)	12:20 72	18:43 83N	00:23 291
2024 May 16 (Thu)	13:06 77	19:25 88N	01:04 286
2024 May 17 (Fri)	13:50 82	20:05 88S	01:42 280
2024 May 18 (Sat)	14:33 88	20:44 82S	02:17 275
2024 May 19 (Sun)	15:16 94	21:23 76S	02:52 269
2024 May 20 (Mon)	16:00 100	22:03 70S	03:28 263
2024 May 21 (Tue)	16:46 105	22:47 65S	04:05 257
2024 May 22 (Wed)	17:36 110	23:33 60S	04:45 252
2024 May 23 (Thu)	18:28 115		05:29 248
2024 May 24 (Fri)	19:25 117	00:24 56S	06:18 244
2024 May 25 (Sat)	20:23 119	01:19 53S	07:12 242
2024 May 26 (Sun)	21:22 118	02:17 53S	08:10 241
2024 May 27 (Mon)	22:19 116	03:16 53S	09:10 243
2024 May 28 (Tue)	23:11 112	04:14 56S	10:10 246
2024 May 29 (Wed)		05:09 60S	11:08 250
2024 May 30 (Thu)	00:00 107	06:01 66S	12:04 256
2024 May 31 (Fri)	00:46 101	06:51 72S	12:57 263
2024 Jun 01 (Sat)	01:30 94	07:39 79S	13:50 270
2024 Jun 02 (Sun)	02:13 87	08:27 87S	14:43 277
2024 Jun 03 (Mon)	02:58 80	09:16 88N	15:37 284
2024 Jun 04 (Tue)	03:44 73	10:08 82N	16:34 290
2024 Jun 05 (Wed)	04:34 68	11:03 77N	17:34 294
2024 Jun 06 (Thu)	05:29 64	12:01 73N	18:35 297
2024 Jun 07 (Fri)	06:26 62	13:01 71N	19:36 299
2024 Jun 08 (Sat)	07:26 61	14:00 72N	20:35 298
2024 Jun 09 (Sun)	08:24 63	14:57 73N	21:28 296
2024 Jun 10 (Mon)	09:20 66	15:49 77N	22:16 292
2024 Jun 11 (Tue)	10:11 70	16:36 81N	22:59 288
2024 Jun 12 (Wed)	11:00 75	17:20 86N	23:38 283
2024 Jun 13 (Thu)	11:45 80	18:01 90S	
2024 Jun 14 (Fri)	12:28 86	18:40 84S	00:15 277
2024 Jun 15 (Sat)	13:11 92	19:19 78S	00:50 271

2024	Jun	16	(Sun)	13:54	98	19:59	72S	01:25	265
2024	Jun	17	(Mon)	14:39	103	20:40	67S	02:02	260
2024	Jun	18	(Tue)	15:27	108	21:25	62S	02:40	254
2024	Jun	19	(Wed)	16:18	113	22:14	57S	03:22	249
2024	Jun	20	(Thu)	17:14	116	23:08	54S	04:09	245
2024	Jun	21	(Fri)	18:12	118			05:02	242
2024	Jun	22	(Sat)	19:12	119	00:06	53S	05:59	241
2024	Jun	23	(Sun)	20:11	117	01:06	53S	07:00	242
2024	Jun	24	(Mon)	21:06	113	02:06	55S	08:02	245
2024	Jun	25	(Tue)	21:58	108	03:03	59S	09:02	249
2024	Jun	26	(Wed)	22:45	102	03:57	64S	09:59	254
2024	Jun	27	(Thu)	23:29	96	04:48	71S	10:54	261
2024	Jun	28	(Fri)			05:37	77S	11:47	268
2024	Jun	29	(Sat)	00:12	89	06:25	85S	12:39	275
2024	Jun	30	(Sun)	00:56	82	07:13	90N	13:32	282
2024	Jul	01	(Mon)	01:40	75	08:02	84N	14:27	288
2024	Jul	02	(Tue)	02:28	70	08:55	78N	15:24	293
2024	Jul	03	(Wed)	03:20	65	09:51	74N	16:24	297
2024	Jul	04	(Thu)	04:15	62	10:49	72N	17:24	298
2024	Jul	05	(Fri)	05:13	61	11:48	71N	18:23	299
2024	Jul	06	(Sat)	06:12	62	12:45	72N	19:18	297
2024	Jul	07	(Sun)	07:08	64	13:39	75N	20:08	294
2024	Jul	08	(Mon)	08:02	68	14:29	79N	20:53	290
2024	Jul	09	(Tue)	08:52	73	15:14	84N	21:34	285
2024	Jul	10	(Wed)	09:39	78	15:56	90N	22:12	279
2024	Jul	11	(Thu)	10:23	84	16:36	86S	22:48	273
2024	Jul	12	(Fri)	11:06	90	17:15	80S	23:23	267
2024	Jul	13	(Sat)	11:48	96	17:54	74S	23:58	262
2024	Jul	14	(Sun)	12:32	101	18:35	69S		
2024	Jul	15	(Mon)	13:18	107	19:17	64S	00:35	256
2024	Jul	16	(Tue)	14:07	111	20:04	59S	01:15	251
2024	Jul	17	(Wed)	15:00	115	20:55	55S	02:00	247
2024	Jul	18	(Thu)	15:58	118	21:51	53S	02:49	243
2024	Jul	19	(Fri)	16:57	119	22:51	53S	03:45	241
2024	Jul	20	(Sat)	17:57	118	23:52	54S	04:44	241
2024	Jul	21	(Sun)	18:55	115			05:47	243
2024	Jul	22	(Mon)	19:49	111	00:51	57S	06:49	247
2024	Jul	23	(Tue)	20:39	105	01:48	62S	07:49	252
2024	Jul	24	(Wed)	21:26	98	02:42	68S	08:47	259
2024	Jul	25	(Thu)	22:10	91	03:33	75S	09:41	266
2024	Jul	26	(Fri)	22:54	84	04:22	83S	10:35	273
2024	Jul	27	(Sat)	23:39	77	05:10	90S	11:28	280
2024	Jul	28	(Sun)			06:00	85N	12:23	286
2024	Jul	29	(Mon)	00:26	71	06:51	80N	13:19	292
2024	Jul	30	(Tue)	01:16	66	07:46	75N	14:17	296
2024	Jul	31	(Wed)	02:09	63	08:42	72N	15:17	298
2024	Aug	01	(Thu)	03:06	61	09:40	71N	16:15	299
2024	Aug	02	(Fri)	04:03	61	10:38	72N	17:11	298
2024	Aug	03	(Sat)	05:00	63	11:32	74N	18:02	295
2024	Aug	04	(Sun)	05:54	67	12:23	78N	18:49	291
2024	Aug	05	(Mon)	06:45	71	13:09	82N	19:31	286
2024	Aug	06	(Tue)	07:33	76	13:53	88N	20:10	281
2024	Aug	07	(Wed)	08:18	82	14:33	88S	20:46	275
2024	Aug	08	(Thu)	09:01	88	15:12	82S	21:21	269
2024	Aug	09	(Fri)	09:44	93	15:51	76S	21:56	264
2024	Aug	10	(Sat)	10:27	99	16:30	71S	22:32	258
2024	Aug	11	(Sun)	11:12	105	17:12	65S	23:11	253
2024	Aug	12	(Mon)	11:59	110	17:56	61S	23:52	248
2024	Aug	13	(Tue)	12:49	114	18:44	57S		
2024	Aug	14	(Wed)	13:43	117	19:37	54S	00:39	244
2024	Aug	15	(Thu)	14:41	119	20:34	52S	01:30	242
2024	Aug	16	(Fri)	15:40	119	21:34	53S	02:27	241
2024	Aug	17	(Sat)	16:39	117	22:34	55S	03:28	242
2024	Aug	18	(Sun)	17:35	113	23:33	60S	04:31	245
2024	Aug	19	(Mon)	18:28	108			05:32	249
2024	Aug	20	(Tue)	19:17	101	00:29	65S	06:32	256
2024	Aug	21	(Wed)	20:04	94	01:22	72S	07:29	263
2024	Aug	22	(Thu)	20:49	86	02:13	80S	08:25	270
2024	Aug	23	(Fri)	21:35	79	03:03	87S	09:20	278
2024	Aug	24	(Sat)	22:22	73	03:54	87N	10:16	284
2024	Aug	25	(Sun)	23:12	67	04:46	81N	11:13	290
2024	Aug	26	(Mon)			05:41	76N	12:12	295

2024 Aug 27 (Tue)	00:05 64	06:38 73N	13:12 298
2024 Aug 28 (Wed)	01:01 61	07:36 71N	14:10 299
2024 Aug 29 (Thu)	01:58 61	08:33 71N	15:07 298
2024 Aug 30 (Fri)	02:55 62	09:28 73N	15:59 296
2024 Aug 31 (Sat)	03:50 65	10:19 76N	16:47 293
2024 Sep 01 (Sun)	04:41 69	11:06 81N	17:30 288
2024 Sep 02 (Mon)	05:29 74	11:50 86N	18:09 283
2024 Sep 03 (Tue)	06:15 80	12:32 90S	18:46 277
2024 Sep 04 (Wed)	06:59 86	13:11 84S	19:21 271
2024 Sep 05 (Thu)	07:41 91	13:50 78S	19:56 266
2024 Sep 06 (Fri)	08:24 97	14:29 73S	20:32 260
2024 Sep 07 (Sat)	09:08 103	15:09 67S	21:09 255
2024 Sep 08 (Sun)	09:54 108	15:52 62S	21:49 250
2024 Sep 09 (Mon)	10:42 113	16:38 58S	22:32 246
2024 Sep 10 (Tue)	11:34 116	17:28 55S	23:21 243
2024 Sep 11 (Wed)	12:29 118	18:22 53S	
2024 Sep 12 (Thu)	13:26 119	19:19 52S	00:14 241
2024 Sep 13 (Fri)	14:24 118	20:17 54S	01:12 241
2024 Sep 14 (Sat)	15:20 115	21:16 57S	02:12 243
2024 Sep 15 (Sun)	16:13 111	22:12 62S	03:13 247
2024 Sep 16 (Mon)	17:03 105	23:06 68S	04:13 252
2024 Sep 17 (Tue)	17:51 97	23:59 76S	05:11 259
2024 Sep 18 (Wed)	18:38 90		06:08 266
2024 Sep 19 (Thu)	19:24 82	00:50 83S	07:05 274
2024 Sep 20 (Fri)	20:12 75	01:42 90N	08:02 281
2024 Sep 21 (Sat)	21:03 69	02:35 84N	09:01 288
2024 Sep 22 (Sun)	21:57 65	03:31 78N	10:01 293
2024 Sep 23 (Mon)	22:54 62	04:29 74N	11:03 297
2024 Sep 24 (Tue)	23:52 61	05:28 71N	12:04 299
2024 Sep 25 (Wed)		06:27 71N	13:02 299
2024 Sep 26 (Thu)	00:50 62	07:24 72N	13:56 297
2024 Sep 27 (Fri)	01:46 64	08:16 75N	14:45 294
2024 Sep 28 (Sat)	02:38 68	09:05 79N	15:29 290
2024 Sep 29 (Sun)	03:27 73	09:49 84N	16:09 285
2024 Sep 30 (Mon)	04:13 78	10:31 89N	16:47 279
2024 Oct 01 (Tue)	04:57 84	11:11 86S	17:22 273
2024 Oct 02 (Wed)	05:40 90	11:49 80S	17:57 268
2024 Oct 03 (Thu)	06:22 95	12:28 75S	18:32 262
2024 Oct 04 (Fri)	07:06 101	13:08 69S	19:09 256
2024 Oct 05 (Sat)	07:51 106	13:50 64S	19:48 251
2024 Oct 06 (Sun)	08:38 111	14:35 59S	20:30 247
2024 Oct 07 (Mon)	09:29 115	15:23 56S	21:17 244
2024 Oct 08 (Tue)	10:22 118	16:15 53S	22:07 241
2024 Oct 09 (Wed)	11:18 119	17:10 52S	23:02 241
2024 Oct 10 (Thu)	12:14 119	18:06 53S	24:00 242
2024 Oct 11 (Fri)	13:09 117	19:03 55S	
2024 Oct 12 (Sat)	14:01 113	19:58 60S	00:59 245
2024 Oct 13 (Sun)	14:51 108	20:52 65S	01:57 249
2024 Oct 14 (Mon)	15:39 101	21:43 72S	02:54 255
2024 Oct 15 (Tue)	16:25 94	22:34 79S	03:50 262
2024 Oct 16 (Wed)	17:11 86	23:25 87S	04:46 270
2024 Oct 17 (Thu)	17:58 79		05:43 277
2024 Oct 18 (Fri)	18:48 72	00:18 87N	06:41 285
2024 Oct 19 (Sat)	19:42 67	01:14 81N	07:42 291
2024 Oct 20 (Sun)	20:40 63	02:13 76N	08:45 295
2024 Oct 21 (Mon)	21:40 61	03:14 72N	09:49 298
2024 Oct 22 (Tue)	22:40 61	04:16 71N	10:51 299
2024 Oct 23 (Wed)	23:38 63	05:15 72N	11:49 298
2024 Oct 24 (Thu)		06:10 74N	12:41 295
2024 Oct 25 (Fri)	00:33 67	07:01 78N	13:27 291
2024 Oct 26 (Sat)	01:24 71	07:47 82N	14:09 286
2024 Oct 27 (Sun)	02:11 76	08:30 88N	14:47 281
2024 Oct 28 (Mon)	02:55 82	09:10 88S	15:23 275
2024 Oct 29 (Tue)	03:38 88	09:49 82S	15:58 269
2024 Oct 30 (Wed)	04:21 93	10:28 76S	16:33 264
2024 Oct 31 (Thu)	05:04 99	11:07 71S	17:09 258
2024 Nov 01 (Fri)	05:48 105	11:49 65S	17:47 253
2024 Nov 02 (Sat)	06:35 110	12:33 61S	18:29 248
2024 Nov 03 (Sun)	07:25 114	13:20 57S	19:14 244
2024 Nov 04 (Mon)	08:18 117	14:11 54S	20:04 242
2024 Nov 05 (Tue)	09:13 119	15:05 52S	20:58 241
2024 Nov 06 (Wed)	10:09 119	16:01 53S	21:54 242

2024 Nov 07 (Thu)	11:03 117	16:57 55S	22:51 244
2024 Nov 08 (Fri)	11:55 114	17:51 58S	23:48 248
2024 Nov 09 (Sat)	12:45 110	18:43 63S	
2024 Nov 10 (Sun)	13:31 104	19:33 69S	00:44 253
2024 Nov 11 (Mon)	14:16 97	20:22 76S	01:38 259
2024 Nov 12 (Tue)	15:00 90	21:12 83S	02:32 266
2024 Nov 13 (Wed)	15:45 83	22:02 91S	03:26 274
2024 Nov 14 (Thu)	16:33 76	22:55 84N	04:22 281
2024 Nov 15 (Fri)	17:24 70	23:53 78N	05:21 288
2024 Nov 16 (Sat)	18:21 65		06:23 293
2024 Nov 17 (Sun)	19:21 62	00:53 74N	07:28 297
2024 Nov 18 (Mon)	20:23 61	01:56 71N	08:32 299
2024 Nov 19 (Tue)	21:24 62	02:59 71N	09:34 298
2024 Nov 20 (Wed)	22:23 65	03:58 73N	10:30 296
2024 Nov 21 (Thu)	23:16 69	04:53 76N	11:21 293
2024 Nov 22 (Fri)		05:42 81N	12:05 288
2024 Nov 23 (Sat)	00:06 74	06:27 86N	12:45 283
2024 Nov 24 (Sun)	00:51 80	07:08 90S	13:22 277
2024 Nov 25 (Mon)	01:35 86	07:47 84S	13:58 271
2024 Nov 26 (Tue)	02:18 91	08:26 78S	14:32 266
2024 Nov 27 (Wed)	03:00 97	09:05 73S	15:08 260
2024 Nov 28 (Thu)	03:44 103	09:46 67S	15:46 255
2024 Nov 29 (Fri)	04:31 108	10:29 62S	16:26 250
2024 Nov 30 (Sat)	05:20 113	11:16 58S	17:10 246
2024 Dec 01 (Sun)	06:12 116	12:06 55S	17:59 243
2024 Dec 02 (Mon)	07:07 118	13:00 53S	18:53 241
2024 Dec 03 (Tue)	08:03 119	13:56 53S	19:49 241
2024 Dec 04 (Wed)	08:59 118	14:53 54S	20:47 243
2024 Dec 05 (Thu)	09:52 115	15:48 57S	21:44 247
2024 Dec 06 (Fri)	10:42 111	16:40 62S	22:39 252
2024 Dec 07 (Sat)	11:29 106	17:30 67S	23:33 257
2024 Dec 08 (Sun)	12:13 99	18:18 74S	
2024 Dec 09 (Mon)	12:56 93	19:05 81S	00:25 264
2024 Dec 10 (Tue)	13:39 85	19:53 88S	01:17 271
2024 Dec 11 (Wed)	14:23 79	20:43 87N	02:10 278
2024 Dec 12 (Thu)	15:11 72	21:37 81N	03:06 285
2024 Dec 13 (Fri)	16:04 67	22:34 76N	04:04 291
2024 Dec 14 (Sat)	17:02 63	23:36 72N	05:07 295
2024 Dec 15 (Sun)	18:03 61		06:11 298
2024 Dec 16 (Mon)	19:05 62	00:39 71N	07:15 299
2024 Dec 17 (Tue)	20:06 64	01:41 72N	08:15 297
2024 Dec 18 (Wed)	21:03 67	02:38 75N	09:09 294
2024 Dec 19 (Thu)	21:56 72	03:31 79N	09:57 290
2024 Dec 20 (Fri)	22:44 78	04:19 84N	10:40 285
2024 Dec 21 (Sat)	23:29 83	05:03 89N	11:19 279
2024 Dec 22 (Sun)		05:43 86S	11:55 274
2024 Dec 23 (Mon)	00:13 89	06:22 81S	12:30 268
2024 Dec 24 (Tue)	00:55 95	07:01 75S	13:06 262
2024 Dec 25 (Wed)	01:39 101	07:41 69S	13:42 256
2024 Dec 26 (Thu)	02:24 106	08:23 64S	14:21 251
2024 Dec 27 (Fri)	03:12 111	09:09 59S	15:04 247
2024 Dec 28 (Sat)	04:03 115	09:58 56S	15:51 244
2024 Dec 29 (Sun)	04:57 118	10:51 53S	16:43 242
2024 Dec 30 (Mon)	05:54 119	11:47 53S	17:40 241
2024 Dec 31 (Tue)	06:51 118	12:44 53S	18:38 242