

Sun

Trat

Location: E102°35'20.3", N12°14'34.8", 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
2025	Jan	01 (Wed)	05:41	06:31	113	12:13	55S	17:56	247	18:45
2025	Jan	02 (Thu)	05:42	06:31	113	12:14	56S	17:56	247	18:46
2025	Jan	03 (Fri)	05:42	06:31	113	12:14	56S	17:57	247	18:46
2025	Jan	04 (Sat)	05:42	06:32	113	12:15	56S	17:58	247	18:47
2025	Jan	05 (Sun)	05:43	06:32	113	12:15	56S	17:58	247	18:47
2025	Jan	06 (Mon)	05:43	06:32	113	12:15	56S	17:59	247	18:48
2025	Jan	07 (Tue)	05:43	06:33	113	12:16	56S	17:59	247	18:48
2025	Jan	08 (Wed)	05:44	06:33	113	12:16	56S	18:00	247	18:49
2025	Jan	09 (Thu)	05:44	06:33	112	12:17	56S	18:00	248	18:49
2025	Jan	10 (Fri)	05:44	06:33	112	12:17	57S	18:01	248	18:50
2025	Jan	11 (Sat)	05:45	06:34	112	12:18	57S	18:01	248	18:50
2025	Jan	12 (Sun)	05:45	06:34	112	12:18	57S	18:02	248	18:51
2025	Jan	13 (Mon)	05:45	06:34	112	12:18	57S	18:03	248	18:51
2025	Jan	14 (Tue)	05:46	06:34	112	12:19	57S	18:03	248	18:52
2025	Jan	15 (Wed)	05:46	06:35	111	12:19	57S	18:04	249	18:52
2025	Jan	16 (Thu)	05:46	06:35	111	12:19	58S	18:04	249	18:53
2025	Jan	17 (Fri)	05:46	06:35	111	12:20	58S	18:05	249	18:53
2025	Jan	18 (Sat)	05:46	06:35	111	12:20	58S	18:05	249	18:54
2025	Jan	19 (Sun)	05:47	06:35	111	12:20	58S	18:06	249	18:54
2025	Jan	20 (Mon)	05:47	06:35	110	12:21	58S	18:06	250	18:55
2025	Jan	21 (Tue)	05:47	06:35	110	12:21	59S	18:07	250	18:55
2025	Jan	22 (Wed)	05:47	06:35	110	12:21	59S	18:07	250	18:55
2025	Jan	23 (Thu)	05:47	06:35	110	12:21	59S	18:08	250	18:56
2025	Jan	24 (Fri)	05:47	06:35	109	12:22	59S	18:08	251	18:56
2025	Jan	25 (Sat)	05:47	06:35	109	12:22	60S	18:09	251	18:57
2025	Jan	26 (Sun)	05:47	06:35	109	12:22	60S	18:09	251	18:57
2025	Jan	27 (Mon)	05:47	06:35	109	12:22	60S	18:10	251	18:57
2025	Jan	28 (Tue)	05:47	06:35	108	12:23	60S	18:10	252	18:58
2025	Jan	29 (Wed)	05:47	06:35	108	12:23	61S	18:10	252	18:58
2025	Jan	30 (Thu)	05:47	06:35	108	12:23	61S	18:11	252	18:59
2025	Jan	31 (Fri)	05:47	06:35	108	12:23	61S	18:11	253	18:59
2025	Feb	01 (Sat)	05:47	06:35	107	12:23	61S	18:12	253	18:59
2025	Feb	02 (Sun)	05:47	06:35	107	12:23	62S	18:12	253	19:00
2025	Feb	03 (Mon)	05:47	06:35	107	12:23	62S	18:12	253	19:00
2025	Feb	04 (Tue)	05:47	06:34	106	12:24	62S	18:13	254	19:00
2025	Feb	05 (Wed)	05:47	06:34	106	12:24	63S	18:13	254	19:00
2025	Feb	06 (Thu)	05:47	06:34	106	12:24	63S	18:13	254	19:01
2025	Feb	07 (Fri)	05:47	06:34	105	12:24	63S	18:14	255	19:01
2025	Feb	08 (Sat)	05:46	06:34	105	12:24	64S	18:14	255	19:01
2025	Feb	09 (Sun)	05:46	06:33	105	12:24	64S	18:14	255	19:01
2025	Feb	10 (Mon)	05:46	06:33	105	12:24	64S	18:15	256	19:02
2025	Feb	11 (Tue)	05:46	06:33	104	12:24	65S	18:15	256	19:02
2025	Feb	12 (Wed)	05:46	06:32	104	12:24	65S	18:15	256	19:02
2025	Feb	13 (Thu)	05:45	06:32	103	12:24	65S	18:16	257	19:02
2025	Feb	14 (Fri)	05:45	06:32	103	12:24	66S	18:16	257	19:03
2025	Feb	15 (Sat)	05:45	06:31	103	12:24	66S	18:16	257	19:03
2025	Feb	16 (Sun)	05:44	06:31	102	12:24	66S	18:16	258	19:03
2025	Feb	17 (Mon)	05:44	06:31	102	12:24	67S	18:17	258	19:03
2025	Feb	18 (Tue)	05:44	06:30	102	12:24	67S	18:17	258	19:03
2025	Feb	19 (Wed)	05:43	06:30	101	12:23	67S	18:17	259	19:04
2025	Feb	20 (Thu)	05:43	06:29	101	12:23	68S	18:17	259	19:04
2025	Feb	21 (Fri)	05:43	06:29	101	12:23	68S	18:18	260	19:04
2025	Feb	22 (Sat)	05:42	06:29	100	12:23	68S	18:18	260	19:04
2025	Feb	23 (Sun)	05:42	06:28	100	12:23	69S	18:18	260	19:04
2025	Feb	24 (Mon)	05:42	06:28	99	12:23	69S	18:18	261	19:04
2025	Feb	25 (Tue)	05:41	06:27	99	12:23	69S	18:18	261	19:04
2025	Feb	26 (Wed)	05:41	06:27	99	12:22	70S	18:18	261	19:05
2025	Feb	27 (Thu)	05:40	06:26	98	12:22	70S	18:19	262	19:05
2025	Feb	28 (Fri)	05:40	06:26	98	12:22	71S	18:19	262	19:05
2025	Mar	01 (Sat)	05:39	06:25	98	12:22	71S	18:19	263	19:05

2025	Mar	02	(Sun)	05:39	06:25	97	12:22	71S	18:19	263	19:05
2025	Mar	03	(Mon)	05:38	06:24	97	12:22	72S	18:19	263	19:05
2025	Mar	04	(Tue)	05:38	06:24	96	12:21	72S	18:19	264	19:05
2025	Mar	05	(Wed)	05:37	06:23	96	12:21	73S	18:19	264	19:05
2025	Mar	06	(Thu)	05:37	06:22	96	12:21	73S	18:19	265	19:05
2025	Mar	07	(Fri)	05:36	06:22	95	12:21	73S	18:20	265	19:05
2025	Mar	08	(Sat)	05:36	06:21	95	12:20	74S	18:20	265	19:05
2025	Mar	09	(Sun)	05:35	06:21	94	12:20	74S	18:20	266	19:06
2025	Mar	10	(Mon)	05:34	06:20	94	12:20	74S	18:20	266	19:06
2025	Mar	11	(Tue)	05:34	06:20	94	12:20	75S	18:20	267	19:06
2025	Mar	12	(Wed)	05:33	06:19	93	12:19	75S	18:20	267	19:06
2025	Mar	13	(Thu)	05:33	06:18	93	12:19	76S	18:20	267	19:06
2025	Mar	14	(Fri)	05:32	06:18	92	12:19	76S	18:20	268	19:06
2025	Mar	15	(Sat)	05:31	06:17	92	12:19	76S	18:20	268	19:06
2025	Mar	16	(Sun)	05:31	06:16	92	12:18	77S	18:20	269	19:06
2025	Mar	17	(Mon)	05:30	06:16	91	12:18	77S	18:20	269	19:06
2025	Mar	18	(Tue)	05:29	06:15	91	12:18	78S	18:20	269	19:06
2025	Mar	19	(Wed)	05:29	06:15	90	12:17	78S	18:20	270	19:06
2025	Mar	20	(Thu)	05:28	06:14	90	12:17	78S	18:20	270	19:06
2025	Mar	21	(Fri)	05:28	06:13	90	12:17	79S	18:20	271	19:06
2025	Mar	22	(Sat)	05:27	06:13	89	12:17	79S	18:21	271	19:06
2025	Mar	23	(Sun)	05:26	06:12	89	12:16	80S	18:21	271	19:06
2025	Mar	24	(Mon)	05:26	06:11	88	12:16	80S	18:21	272	19:06
2025	Mar	25	(Tue)	05:25	06:11	88	12:16	80S	18:21	272	19:06
2025	Mar	26	(Wed)	05:24	06:10	88	12:15	81S	18:21	273	19:07
2025	Mar	27	(Thu)	05:24	06:09	87	12:15	81S	18:21	273	19:07
2025	Mar	28	(Fri)	05:23	06:09	87	12:15	82S	18:21	273	19:07
2025	Mar	29	(Sat)	05:22	06:08	86	12:14	82S	18:21	274	19:07
2025	Mar	30	(Sun)	05:22	06:07	86	12:14	82S	18:21	274	19:07
2025	Mar	31	(Mon)	05:21	06:07	86	12:14	83S	18:21	275	19:07
2025	Apr	01	(Tue)	05:20	06:06	85	12:14	83S	18:21	275	19:07
2025	Apr	02	(Wed)	05:20	06:06	85	12:13	83S	18:21	275	19:07
2025	Apr	03	(Thu)	05:19	06:05	84	12:13	84S	18:21	276	19:07
2025	Apr	04	(Fri)	05:18	06:04	84	12:13	84S	18:21	276	19:07
2025	Apr	05	(Sat)	05:18	06:04	84	12:12	85S	18:21	277	19:07
2025	Apr	06	(Sun)	05:17	06:03	83	12:12	85S	18:21	277	19:07
2025	Apr	07	(Mon)	05:16	06:02	83	12:12	85S	18:21	277	19:07
2025	Apr	08	(Tue)	05:16	06:02	82	12:11	86S	18:21	278	19:08
2025	Apr	09	(Wed)	05:15	06:01	82	12:11	86S	18:21	278	19:08
2025	Apr	10	(Thu)	05:14	06:01	82	12:11	87S	18:21	279	19:08
2025	Apr	11	(Fri)	05:14	06:00	81	12:11	87S	18:21	279	19:08
2025	Apr	12	(Sat)	05:13	05:59	81	12:10	87S	18:22	279	19:08
2025	Apr	13	(Sun)	05:12	05:59	81	12:10	88S	18:22	280	19:08
2025	Apr	14	(Mon)	05:12	05:58	80	12:10	88S	18:22	280	19:08
2025	Apr	15	(Tue)	05:11	05:58	80	12:10	88S	18:22	280	19:08
2025	Apr	16	(Wed)	05:10	05:57	79	12:09	89S	18:22	281	19:09
2025	Apr	17	(Thu)	05:10	05:57	79	12:09	89S	18:22	281	19:09
2025	Apr	18	(Fri)	05:09	05:56	79	12:09	89S	18:22	281	19:09
2025	Apr	19	(Sat)	05:09	05:56	78	12:09	90S	18:22	282	19:09
2025	Apr	20	(Sun)	05:08	05:55	78	12:09	90S	18:22	282	19:09
2025	Apr	21	(Mon)	05:07	05:54	78	12:08	90S	18:22	283	19:09
2025	Apr	22	(Tue)	05:07	05:54	77	12:08	91N	18:22	283	19:10
2025	Apr	23	(Wed)	05:06	05:53	77	12:08	90N	18:23	283	19:10
2025	Apr	24	(Thu)	05:06	05:53	77	12:08	90N	18:23	284	19:10
2025	Apr	25	(Fri)	05:05	05:53	76	12:08	90N	18:23	284	19:10
2025	Apr	26	(Sat)	05:05	05:52	76	12:07	89N	18:23	284	19:10
2025	Apr	27	(Sun)	05:04	05:52	76	12:07	89N	18:23	285	19:11
2025	Apr	28	(Mon)	05:04	05:51	75	12:07	89N	18:23	285	19:11
2025	Apr	29	(Tue)	05:03	05:51	75	12:07	88N	18:23	285	19:11
2025	Apr	30	(Wed)	05:03	05:50	75	12:07	88N	18:24	285	19:11
2025	May	01	(Thu)	05:02	05:50	74	12:07	88N	18:24	286	19:12
2025	May	02	(Fri)	05:02	05:49	74	12:07	87N	18:24	286	19:12
2025	May	03	(Sat)	05:01	05:49	74	12:07	87N	18:24	286	19:12
2025	May	04	(Sun)	05:01	05:49	73	12:06	87N	18:24	287	19:12
2025	May	05	(Mon)	05:00	05:48	73	12:06	87N	18:25	287	19:13
2025	May	06	(Tue)	05:00	05:48	73	12:06	86N	18:25	287	19:13
2025	May	07	(Wed)	04:59	05:48	73	12:06	86N	18:25	288	19:13
2025	May	08	(Thu)	04:59	05:47	72	12:06	86N	18:25	288	19:14
2025	May	09	(Fri)	04:59	05:47	72	12:06	86N	18:25	288	19:14
2025	May	10	(Sat)	04:58	05:47	72	12:06	85N	18:26	288	19:14
2025	May	11	(Sun)	04:58	05:46	72	12:06	85N	18:26	289	19:14
2025	May	12	(Mon)	04:57	05:46	71	12:06	85N	18:26	289	19:15

2025	May	13	(Tue)	04:57	05:46	71	12:06	85N	18:26	289	19:15
2025	May	14	(Wed)	04:57	05:46	71	12:06	84N	18:26	289	19:15
2025	May	15	(Thu)	04:56	05:45	70	12:06	84N	18:27	290	19:16
2025	May	16	(Fri)	04:56	05:45	70	12:06	84N	18:27	290	19:16
2025	May	17	(Sat)	04:56	05:45	70	12:06	84N	18:27	290	19:16
2025	May	18	(Sun)	04:56	05:45	70	12:06	83N	18:27	290	19:17
2025	May	19	(Mon)	04:55	05:45	70	12:06	83N	18:28	291	19:17
2025	May	20	(Tue)	04:55	05:44	69	12:06	83N	18:28	291	19:17
2025	May	21	(Wed)	04:55	05:44	69	12:06	83N	18:28	291	19:18
2025	May	22	(Thu)	04:55	05:44	69	12:06	83N	18:29	291	19:18
2025	May	23	(Fri)	04:54	05:44	69	12:06	82N	18:29	291	19:18
2025	May	24	(Sat)	04:54	05:44	69	12:06	82N	18:29	292	19:19
2025	May	25	(Sun)	04:54	05:44	68	12:07	82N	18:29	292	19:19
2025	May	26	(Mon)	04:54	05:44	68	12:07	82N	18:30	292	19:20
2025	May	27	(Tue)	04:54	05:44	68	12:07	82N	18:30	292	19:20
2025	May	28	(Wed)	04:54	05:44	68	12:07	81N	18:30	292	19:20
2025	May	29	(Thu)	04:54	05:44	68	12:07	81N	18:31	292	19:21
2025	May	30	(Fri)	04:54	05:44	68	12:07	81N	18:31	293	19:21
2025	May	31	(Sat)	04:53	05:44	67	12:07	81N	18:31	293	19:21
2025	Jun	01	(Sun)	04:53	05:44	67	12:07	81N	18:31	293	19:22
2025	Jun	02	(Mon)	04:53	05:44	67	12:08	81N	18:32	293	19:22
2025	Jun	03	(Tue)	04:53	05:44	67	12:08	81N	18:32	293	19:22
2025	Jun	04	(Wed)	04:53	05:44	67	12:08	80N	18:32	293	19:23
2025	Jun	05	(Thu)	04:53	05:44	67	12:08	80N	18:33	293	19:23
2025	Jun	06	(Fri)	04:53	05:44	67	12:08	80N	18:33	293	19:23
2025	Jun	07	(Sat)	04:53	05:44	66	12:09	80N	18:33	294	19:24
2025	Jun	08	(Sun)	04:53	05:44	66	12:09	80N	18:33	294	19:24
2025	Jun	09	(Mon)	04:54	05:44	66	12:09	80N	18:34	294	19:24
2025	Jun	10	(Tue)	04:54	05:44	66	12:09	80N	18:34	294	19:25
2025	Jun	11	(Wed)	04:54	05:44	66	12:09	80N	18:34	294	19:25
2025	Jun	12	(Thu)	04:54	05:44	66	12:10	80N	18:35	294	19:25
2025	Jun	13	(Fri)	04:54	05:45	66	12:10	80N	18:35	294	19:26
2025	Jun	14	(Sat)	04:54	05:45	66	12:10	80N	18:35	294	19:26
2025	Jun	15	(Sun)	04:54	05:45	66	12:10	80N	18:35	294	19:26
2025	Jun	16	(Mon)	04:54	05:45	66	12:10	80N	18:36	294	19:26
2025	Jun	17	(Tue)	04:55	05:45	66	12:11	80N	18:36	294	19:27
2025	Jun	18	(Wed)	04:55	05:45	66	12:11	80N	18:36	294	19:27
2025	Jun	19	(Thu)	04:55	05:46	66	12:11	80N	18:36	294	19:27
2025	Jun	20	(Fri)	04:55	05:46	66	12:11	80N	18:37	294	19:27
2025	Jun	21	(Sat)	04:55	05:46	66	12:11	80N	18:37	294	19:28
2025	Jun	22	(Sun)	04:56	05:46	66	12:12	80N	18:37	294	19:28
2025	Jun	23	(Mon)	04:56	05:47	66	12:12	80N	18:37	294	19:28
2025	Jun	24	(Tue)	04:56	05:47	66	12:12	80N	18:37	294	19:28
2025	Jun	25	(Wed)	04:56	05:47	66	12:12	80N	18:38	294	19:28
2025	Jun	26	(Thu)	04:57	05:47	66	12:13	80N	18:38	294	19:29
2025	Jun	27	(Fri)	04:57	05:48	66	12:13	80N	18:38	294	19:29
2025	Jun	28	(Sat)	04:57	05:48	66	12:13	80N	18:38	294	19:29
2025	Jun	29	(Sun)	04:57	05:48	66	12:13	80N	18:38	294	19:29
2025	Jun	30	(Mon)	04:58	05:48	66	12:13	80N	18:38	294	19:29
2025	Jul	01	(Tue)	04:58	05:49	66	12:14	80N	18:39	294	19:29
2025	Jul	02	(Wed)	04:58	05:49	66	12:14	80N	18:39	294	19:29
2025	Jul	03	(Thu)	04:59	05:49	66	12:14	80N	18:39	294	19:29
2025	Jul	04	(Fri)	04:59	05:49	66	12:14	80N	18:39	294	19:29
2025	Jul	05	(Sat)	04:59	05:50	66	12:14	80N	18:39	293	19:29
2025	Jul	06	(Sun)	04:59	05:50	67	12:14	80N	18:39	293	19:29
2025	Jul	07	(Mon)	05:00	05:50	67	12:15	80N	18:39	293	19:29
2025	Jul	08	(Tue)	05:00	05:50	67	12:15	81N	18:39	293	19:29
2025	Jul	09	(Wed)	05:00	05:51	67	12:15	81N	18:39	293	19:29
2025	Jul	10	(Thu)	05:01	05:51	67	12:15	81N	18:39	293	19:29
2025	Jul	11	(Fri)	05:01	05:51	67	12:15	81N	18:39	293	19:29
2025	Jul	12	(Sat)	05:01	05:52	67	12:15	81N	18:39	293	19:29
2025	Jul	13	(Sun)	05:02	05:52	67	12:15	81N	18:39	292	19:29
2025	Jul	14	(Mon)	05:02	05:52	68	12:16	81N	18:39	292	19:29
2025	Jul	15	(Tue)	05:02	05:52	68	12:16	81N	18:39	292	19:29
2025	Jul	16	(Wed)	05:03	05:53	68	12:16	82N	18:39	292	19:29
2025	Jul	17	(Thu)	05:03	05:53	68	12:16	82N	18:39	292	19:29
2025	Jul	18	(Fri)	05:03	05:53	68	12:16	82N	18:39	292	19:28
2025	Jul	19	(Sat)	05:04	05:53	68	12:16	82N	18:38	291	19:28
2025	Jul	20	(Sun)	05:04	05:54	69	12:16	82N	18:38	291	19:28
2025	Jul	21	(Mon)	05:04	05:54	69	12:16	83N	18:38	291	19:28
2025	Jul	22	(Tue)	05:05	05:54	69	12:16	83N	18:38	291	19:27
2025	Jul	23	(Wed)	05:05	05:54	69	12:16	83N	18:38	291	19:27

2025	Jul	24	(Thu)	05:05	05:55	69	12:16	83N	18:38	290	19:27
2025	Jul	25	(Fri)	05:06	05:55	70	12:16	83N	18:37	290	19:27
2025	Jul	26	(Sat)	05:06	05:55	70	12:16	84N	18:37	290	19:26
2025	Jul	27	(Sun)	05:06	05:55	70	12:16	84N	18:37	290	19:26
2025	Jul	28	(Mon)	05:06	05:55	70	12:16	84N	18:37	290	19:26
2025	Jul	29	(Tue)	05:07	05:56	71	12:16	84N	18:37	289	19:25
2025	Jul	30	(Wed)	05:07	05:56	71	12:16	85N	18:36	289	19:25
2025	Jul	31	(Thu)	05:07	05:56	71	12:16	85N	18:36	289	19:25
2025	Aug	01	(Fri)	05:08	05:56	71	12:16	85N	18:36	288	19:24
2025	Aug	02	(Sat)	05:08	05:56	72	12:16	85N	18:35	288	19:24
2025	Aug	03	(Sun)	05:08	05:57	72	12:16	86N	18:35	288	19:23
2025	Aug	04	(Mon)	05:08	05:57	72	12:16	86N	18:35	288	19:23
2025	Aug	05	(Tue)	05:09	05:57	72	12:16	86N	18:34	287	19:23
2025	Aug	06	(Wed)	05:09	05:57	73	12:16	86N	18:34	287	19:22
2025	Aug	07	(Thu)	05:09	05:57	73	12:15	87N	18:33	287	19:22
2025	Aug	08	(Fri)	05:09	05:57	73	12:15	87N	18:33	287	19:21
2025	Aug	09	(Sat)	05:10	05:58	74	12:15	87N	18:33	286	19:21
2025	Aug	10	(Sun)	05:10	05:58	74	12:15	87N	18:32	286	19:20
2025	Aug	11	(Mon)	05:10	05:58	74	12:15	88N	18:32	286	19:20
2025	Aug	12	(Tue)	05:10	05:58	74	12:15	88N	18:31	285	19:19
2025	Aug	13	(Wed)	05:10	05:58	75	12:15	88N	18:31	285	19:19
2025	Aug	14	(Thu)	05:11	05:58	75	12:14	89N	18:30	285	19:18
2025	Aug	15	(Fri)	05:11	05:58	75	12:14	89N	18:30	284	19:17
2025	Aug	16	(Sat)	05:11	05:58	76	12:14	89N	18:29	284	19:17
2025	Aug	17	(Sun)	05:11	05:58	76	12:14	90N	18:29	284	19:16
2025	Aug	18	(Mon)	05:11	05:59	76	12:14	90N	18:28	283	19:16
2025	Aug	19	(Tue)	05:11	05:59	77	12:13	90N	18:28	283	19:15
2025	Aug	20	(Wed)	05:11	05:59	77	12:13	91N	18:27	283	19:14
2025	Aug	21	(Thu)	05:12	05:59	77	12:13	90S	18:27	282	19:14
2025	Aug	22	(Fri)	05:12	05:59	78	12:13	90S	18:26	282	19:13
2025	Aug	23	(Sat)	05:12	05:59	78	12:12	90S	18:26	282	19:13
2025	Aug	24	(Sun)	05:12	05:59	78	12:12	89S	18:25	281	19:12
2025	Aug	25	(Mon)	05:12	05:59	79	12:12	89S	18:24	281	19:11
2025	Aug	26	(Tue)	05:12	05:59	79	12:11	89S	18:24	281	19:11
2025	Aug	27	(Wed)	05:12	05:59	80	12:11	88S	18:23	280	19:10
2025	Aug	28	(Thu)	05:12	05:59	80	12:11	88S	18:23	280	19:09
2025	Aug	29	(Fri)	05:12	05:59	80	12:11	88S	18:22	280	19:09
2025	Aug	30	(Sat)	05:13	05:59	81	12:10	87S	18:21	279	19:08
2025	Aug	31	(Sun)	05:13	05:59	81	12:10	87S	18:21	279	19:07
2025	Sep	01	(Mon)	05:13	05:59	81	12:10	87S	18:20	278	19:06
2025	Sep	02	(Tue)	05:13	05:59	82	12:09	86S	18:19	278	19:06
2025	Sep	03	(Wed)	05:13	05:59	82	12:09	86S	18:19	278	19:05
2025	Sep	04	(Thu)	05:13	05:59	82	12:09	86S	18:18	277	19:04
2025	Sep	05	(Fri)	05:13	05:59	83	12:08	85S	18:17	277	19:04
2025	Sep	06	(Sat)	05:13	05:59	83	12:08	85S	18:17	277	19:03
2025	Sep	07	(Sun)	05:13	05:59	84	12:08	84S	18:16	276	19:02
2025	Sep	08	(Mon)	05:13	05:59	84	12:07	84S	18:15	276	19:02
2025	Sep	09	(Tue)	05:13	05:59	84	12:07	84S	18:15	275	19:01
2025	Sep	10	(Wed)	05:13	05:59	85	12:07	83S	18:14	275	19:00
2025	Sep	11	(Thu)	05:13	05:59	85	12:06	83S	18:13	275	18:59
2025	Sep	12	(Fri)	05:13	05:59	86	12:06	83S	18:13	274	18:59
2025	Sep	13	(Sat)	05:13	05:59	86	12:06	82S	18:12	274	18:58
2025	Sep	14	(Sun)	05:13	05:59	86	12:05	82S	18:11	273	18:57
2025	Sep	15	(Mon)	05:13	05:59	87	12:05	81S	18:11	273	18:56
2025	Sep	16	(Tue)	05:13	05:59	87	12:05	81S	18:10	273	18:56
2025	Sep	17	(Wed)	05:13	05:59	88	12:04	81S	18:09	272	18:55
2025	Sep	18	(Thu)	05:13	05:59	88	12:04	80S	18:09	272	18:54
2025	Sep	19	(Fri)	05:13	05:59	88	12:03	80S	18:08	271	18:54
2025	Sep	20	(Sat)	05:13	05:59	89	12:03	79S	18:07	271	18:53
2025	Sep	21	(Sun)	05:13	05:59	89	12:03	79S	18:06	271	18:52
2025	Sep	22	(Mon)	05:13	05:59	89	12:02	79S	18:06	270	18:52
2025	Sep	23	(Tue)	05:13	05:59	90	12:02	78S	18:05	270	18:51
2025	Sep	24	(Wed)	05:13	05:59	90	12:02	78S	18:04	270	18:50
2025	Sep	25	(Thu)	05:13	05:59	91	12:01	78S	18:04	269	18:49
2025	Sep	26	(Fri)	05:13	05:59	91	12:01	77S	18:03	269	18:49
2025	Sep	27	(Sat)	05:13	05:59	91	12:01	77S	18:02	268	18:48
2025	Sep	28	(Sun)	05:13	05:59	92	12:00	76S	18:02	268	18:47
2025	Sep	29	(Mon)	05:13	05:59	92	12:00	76S	18:01	268	18:47
2025	Sep	30	(Tue)	05:13	05:59	93	12:00	76S	18:00	267	18:46
2025	Oct	01	(Wed)	05:13	05:59	93	11:59	75S	18:00	267	18:45
2025	Oct	02	(Thu)	05:13	05:59	93	11:59	75S	17:59	266	18:45
2025	Oct	03	(Fri)	05:13	05:59	94	11:59	74S	17:58	266	18:44

2025	Oct	04	(Sat)	05:13	05:59	94	11:58	74S	17:58	266	18:44
2025	Oct	05	(Sun)	05:13	05:59	95	11:58	74S	17:57	265	18:43
2025	Oct	06	(Mon)	05:13	05:59	95	11:58	73S	17:57	265	18:42
2025	Oct	07	(Tue)	05:13	05:59	95	11:57	73S	17:56	264	18:42
2025	Oct	08	(Wed)	05:13	05:59	96	11:57	72S	17:55	264	18:41
2025	Oct	09	(Thu)	05:13	05:59	96	11:57	72S	17:55	264	18:41
2025	Oct	10	(Fri)	05:13	05:59	97	11:57	72S	17:54	263	18:40
2025	Oct	11	(Sat)	05:13	05:59	97	11:56	71S	17:53	263	18:39
2025	Oct	12	(Sun)	05:13	05:59	97	11:56	71S	17:53	262	18:39
2025	Oct	13	(Mon)	05:13	05:59	98	11:56	71S	17:52	262	18:38
2025	Oct	14	(Tue)	05:13	05:59	98	11:56	70S	17:52	262	18:38
2025	Oct	15	(Wed)	05:13	06:00	99	11:55	70S	17:51	261	18:37
2025	Oct	16	(Thu)	05:13	06:00	99	11:55	69S	17:51	261	18:37
2025	Oct	17	(Fri)	05:14	06:00	99	11:55	69S	17:50	261	18:36
2025	Oct	18	(Sat)	05:14	06:00	100	11:55	69S	17:50	260	18:36
2025	Oct	19	(Sun)	05:14	06:00	100	11:55	68S	17:49	260	18:35
2025	Oct	20	(Mon)	05:14	06:00	100	11:54	68S	17:49	259	18:35
2025	Oct	21	(Tue)	05:14	06:00	101	11:54	68S	17:48	259	18:35
2025	Oct	22	(Wed)	05:14	06:00	101	11:54	67S	17:48	259	18:34
2025	Oct	23	(Thu)	05:14	06:01	101	11:54	67S	17:47	258	18:34
2025	Oct	24	(Fri)	05:14	06:01	102	11:54	67S	17:47	258	18:33
2025	Oct	25	(Sat)	05:14	06:01	102	11:54	66S	17:46	258	18:33
2025	Oct	26	(Sun)	05:15	06:01	103	11:54	66S	17:46	257	18:33
2025	Oct	27	(Mon)	05:15	06:01	103	11:54	66S	17:46	257	18:32
2025	Oct	28	(Tue)	05:15	06:02	103	11:53	65S	17:45	257	18:32
2025	Oct	29	(Wed)	05:15	06:02	104	11:53	65S	17:45	256	18:32
2025	Oct	30	(Thu)	05:15	06:02	104	11:53	65S	17:44	256	18:31
2025	Oct	31	(Fri)	05:15	06:02	104	11:53	64S	17:44	256	18:31
2025	Nov	01	(Sat)	05:16	06:03	105	11:53	64S	17:44	255	18:31
2025	Nov	02	(Sun)	05:16	06:03	105	11:53	64S	17:44	255	18:31
2025	Nov	03	(Mon)	05:16	06:03	105	11:53	63S	17:43	255	18:30
2025	Nov	04	(Tue)	05:16	06:03	106	11:53	63S	17:43	254	18:30
2025	Nov	05	(Wed)	05:16	06:04	106	11:53	63S	17:43	254	18:30
2025	Nov	06	(Thu)	05:17	06:04	106	11:53	62S	17:42	254	18:30
2025	Nov	07	(Fri)	05:17	06:04	106	11:53	62S	17:42	253	18:30
2025	Nov	08	(Sat)	05:17	06:05	107	11:53	62S	17:42	253	18:30
2025	Nov	09	(Sun)	05:17	06:05	107	11:53	62S	17:42	253	18:29
2025	Nov	10	(Mon)	05:18	06:05	107	11:54	61S	17:42	252	18:29
2025	Nov	11	(Tue)	05:18	06:06	108	11:54	61S	17:42	252	18:29
2025	Nov	12	(Wed)	05:18	06:06	108	11:54	61S	17:41	252	18:29
2025	Nov	13	(Thu)	05:19	06:06	108	11:54	60S	17:41	252	18:29
2025	Nov	14	(Fri)	05:19	06:07	108	11:54	60S	17:41	251	18:29
2025	Nov	15	(Sat)	05:19	06:07	109	11:54	60S	17:41	251	18:29
2025	Nov	16	(Sun)	05:20	06:08	109	11:54	60S	17:41	251	18:29
2025	Nov	17	(Mon)	05:20	06:08	109	11:55	59S	17:41	251	18:29
2025	Nov	18	(Tue)	05:20	06:08	109	11:55	59S	17:41	250	18:29
2025	Nov	19	(Wed)	05:21	06:09	110	11:55	59S	17:41	250	18:29
2025	Nov	20	(Thu)	05:21	06:09	110	11:55	59S	17:41	250	18:29
2025	Nov	21	(Fri)	05:21	06:10	110	11:56	59S	17:41	250	18:29
2025	Nov	22	(Sat)	05:22	06:10	110	11:56	58S	17:41	249	18:30
2025	Nov	23	(Sun)	05:22	06:11	111	11:56	58S	17:41	249	18:30
2025	Nov	24	(Mon)	05:23	06:11	111	11:56	58S	17:41	249	18:30
2025	Nov	25	(Tue)	05:23	06:12	111	11:57	58S	17:41	249	18:30
2025	Nov	26	(Wed)	05:24	06:12	111	11:57	57S	17:42	249	18:30
2025	Nov	27	(Thu)	05:24	06:13	111	11:57	57S	17:42	248	18:30
2025	Nov	28	(Fri)	05:24	06:13	112	11:58	57S	17:42	248	18:31
2025	Nov	29	(Sat)	05:25	06:14	112	11:58	57S	17:42	248	18:31
2025	Nov	30	(Sun)	05:25	06:14	112	11:58	57S	17:42	248	18:31
2025	Dec	01	(Mon)	05:26	06:15	112	11:59	57S	17:42	248	18:31
2025	Dec	02	(Tue)	05:26	06:15	112	11:59	56S	17:43	248	18:32
2025	Dec	03	(Wed)	05:27	06:16	112	11:59	56S	17:43	247	18:32
2025	Dec	04	(Thu)	05:27	06:16	113	12:00	56S	17:43	247	18:32
2025	Dec	05	(Fri)	05:28	06:17	113	12:00	56S	17:43	247	18:33
2025	Dec	06	(Sat)	05:28	06:17	113	12:01	56S	17:44	247	18:33
2025	Dec	07	(Sun)	05:29	06:18	113	12:01	56S	17:44	247	18:33
2025	Dec	08	(Mon)	05:29	06:19	113	12:02	56S	17:44	247	18:34
2025	Dec	09	(Tue)	05:30	06:19	113	12:02	56S	17:45	247	18:34
2025	Dec	10	(Wed)	05:30	06:20	113	12:02	56S	17:45	247	18:35
2025	Dec	11	(Thu)	05:31	06:20	113	12:03	55S	17:46	247	18:35
2025	Dec	12	(Fri)	05:31	06:21	113	12:03	55S	17:46	247	18:35
2025	Dec	13	(Sat)	05:32	06:21	114	12:04	55S	17:46	246	18:36
2025	Dec	14	(Sun)	05:32	06:22	114	12:04	55S	17:47	246	18:36

2025	Dec 15	(Mon)	05:33	06:22	114	12:05	55S	17:47	246	18:37
2025	Dec 16	(Tue)	05:33	06:23	114	12:05	55S	17:48	246	18:37
2025	Dec 17	(Wed)	05:34	06:23	114	12:06	55S	17:48	246	18:38
2025	Dec 18	(Thu)	05:34	06:24	114	12:06	55S	17:49	246	18:38
2025	Dec 19	(Fri)	05:35	06:24	114	12:07	55S	17:49	246	18:39
2025	Dec 20	(Sat)	05:35	06:25	114	12:07	55S	17:49	246	18:39
2025	Dec 21	(Sun)	05:36	06:25	114	12:08	55S	17:50	246	18:40
2025	Dec 22	(Mon)	05:36	06:26	114	12:08	55S	17:50	246	18:40
2025	Dec 23	(Tue)	05:37	06:26	114	12:09	55S	17:51	246	18:41
2025	Dec 24	(Wed)	05:37	06:27	114	12:09	55S	17:51	246	18:41
2025	Dec 25	(Thu)	05:38	06:27	114	12:10	55S	17:52	246	18:42
2025	Dec 26	(Fri)	05:38	06:28	114	12:10	55S	17:53	246	18:42
2025	Dec 27	(Sat)	05:39	06:28	114	12:11	55S	17:53	246	18:43
2025	Dec 28	(Sun)	05:39	06:29	114	12:11	55S	17:54	246	18:43
2025	Dec 29	(Mon)	05:40	06:29	114	12:12	55S	17:54	246	18:44
2025	Dec 30	(Tue)	05:40	06:30	114	12:12	55S	17:55	246	18:44
2025	Dec 31	(Wed)	05:41	06:30	113	12:13	55S	17:55	247	18:45

Sun

Trat

Location: E102°35'20.3", N12°14'34.8", 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 °	h m
2025	Jan 01	(Wed)	06:08	06:31	113	12:13 55S	17:56	247	18:19
2025	Jan 02	(Thu)	06:08	06:31	113	12:14 56S	17:56	247	18:19
2025	Jan 03	(Fri)	06:08	06:31	113	12:14 56S	17:57	247	18:20
2025	Jan 04	(Sat)	06:09	06:32	113	12:15 56S	17:58	247	18:20
2025	Jan 05	(Sun)	06:09	06:32	113	12:15 56S	17:58	247	18:21
2025	Jan 06	(Mon)	06:09	06:32	113	12:15 56S	17:59	247	18:22
2025	Jan 07	(Tue)	06:10	06:33	113	12:16 56S	17:59	247	18:22
2025	Jan 08	(Wed)	06:10	06:33	113	12:16 56S	18:00	247	18:23
2025	Jan 09	(Thu)	06:10	06:33	112	12:17 56S	18:00	248	18:23
2025	Jan 10	(Fri)	06:11	06:33	112	12:17 57S	18:01	248	18:24
2025	Jan 11	(Sat)	06:11	06:34	112	12:18 57S	18:01	248	18:24
2025	Jan 12	(Sun)	06:11	06:34	112	12:18 57S	18:02	248	18:25
2025	Jan 13	(Mon)	06:11	06:34	112	12:18 57S	18:03	248	18:25
2025	Jan 14	(Tue)	06:12	06:34	112	12:19 57S	18:03	248	18:26
2025	Jan 15	(Wed)	06:12	06:35	111	12:19 57S	18:04	249	18:26
2025	Jan 16	(Thu)	06:12	06:35	111	12:19 58S	18:04	249	18:27
2025	Jan 17	(Fri)	06:12	06:35	111	12:20 58S	18:05	249	18:27
2025	Jan 18	(Sat)	06:12	06:35	111	12:20 58S	18:05	249	18:28
2025	Jan 19	(Sun)	06:13	06:35	111	12:20 58S	18:06	249	18:28
2025	Jan 20	(Mon)	06:13	06:35	110	12:21 58S	18:06	250	18:29
2025	Jan 21	(Tue)	06:13	06:35	110	12:21 59S	18:07	250	18:29
2025	Jan 22	(Wed)	06:13	06:35	110	12:21 59S	18:07	250	18:30
2025	Jan 23	(Thu)	06:13	06:35	110	12:21 59S	18:08	250	18:30
2025	Jan 24	(Fri)	06:13	06:35	109	12:22 59S	18:08	251	18:30
2025	Jan 25	(Sat)	06:13	06:35	109	12:22 60S	18:09	251	18:31
2025	Jan 26	(Sun)	06:13	06:35	109	12:22 60S	18:09	251	18:31
2025	Jan 27	(Mon)	06:13	06:35	109	12:22 60S	18:10	251	18:32
2025	Jan 28	(Tue)	06:13	06:35	108	12:23 60S	18:10	252	18:32
2025	Jan 29	(Wed)	06:13	06:35	108	12:23 61S	18:10	252	18:33
2025	Jan 30	(Thu)	06:13	06:35	108	12:23 61S	18:11	252	18:33
2025	Jan 31	(Fri)	06:13	06:35	108	12:23 61S	18:11	253	18:33
2025	Feb 01	(Sat)	06:13	06:35	107	12:23 61S	18:12	253	18:34
2025	Feb 02	(Sun)	06:13	06:35	107	12:23 62S	18:12	253	18:34
2025	Feb 03	(Mon)	06:13	06:35	107	12:23 62S	18:12	253	18:34
2025	Feb 04	(Tue)	06:12	06:34	106	12:24 62S	18:13	254	18:35
2025	Feb 05	(Wed)	06:12	06:34	106	12:24 63S	18:13	254	18:35
2025	Feb 06	(Thu)	06:12	06:34	106	12:24 63S	18:13	254	18:35
2025	Feb 07	(Fri)	06:12	06:34	105	12:24 63S	18:14	255	18:36
2025	Feb 08	(Sat)	06:12	06:34	105	12:24 64S	18:14	255	18:36
2025	Feb 09	(Sun)	06:11	06:33	105	12:24 64S	18:14	255	18:36
2025	Feb 10	(Mon)	06:11	06:33	105	12:24 64S	18:15	256	18:37
2025	Feb 11	(Tue)	06:11	06:33	104	12:24 65S	18:15	256	18:37

2025	Feb	12	(Wed)	06:11	06:32	104	12:24	65S	18:15	256	18:37
2025	Feb	13	(Thu)	06:10	06:32	103	12:24	65S	18:16	257	18:37
2025	Feb	14	(Fri)	06:10	06:32	103	12:24	66S	18:16	257	18:38
2025	Feb	15	(Sat)	06:10	06:31	103	12:24	66S	18:16	257	18:38
2025	Feb	16	(Sun)	06:09	06:31	102	12:24	66S	18:16	258	18:38
2025	Feb	17	(Mon)	06:09	06:31	102	12:24	67S	18:17	258	18:38
2025	Feb	18	(Tue)	06:09	06:30	102	12:24	67S	18:17	258	18:38
2025	Feb	19	(Wed)	06:08	06:30	101	12:23	67S	18:17	259	18:39
2025	Feb	20	(Thu)	06:08	06:29	101	12:23	68S	18:17	259	18:39
2025	Feb	21	(Fri)	06:08	06:29	101	12:23	68S	18:18	260	18:39
2025	Feb	22	(Sat)	06:07	06:29	100	12:23	68S	18:18	260	18:39
2025	Feb	23	(Sun)	06:07	06:28	100	12:23	69S	18:18	260	18:39
2025	Feb	24	(Mon)	06:06	06:28	99	12:23	69S	18:18	261	18:40
2025	Feb	25	(Tue)	06:06	06:27	99	12:23	69S	18:18	261	18:40
2025	Feb	26	(Wed)	06:05	06:27	99	12:22	70S	18:18	261	18:40
2025	Feb	27	(Thu)	06:05	06:26	98	12:22	70S	18:19	262	18:40
2025	Feb	28	(Fri)	06:04	06:26	98	12:22	71S	18:19	262	18:40
2025	Mar	01	(Sat)	06:04	06:25	98	12:22	71S	18:19	263	18:40
2025	Mar	02	(Sun)	06:03	06:25	97	12:22	71S	18:19	263	18:40
2025	Mar	03	(Mon)	06:03	06:24	97	12:22	72S	18:19	263	18:40
2025	Mar	04	(Tue)	06:02	06:24	96	12:21	72S	18:19	264	18:41
2025	Mar	05	(Wed)	06:02	06:23	96	12:21	73S	18:19	264	18:41
2025	Mar	06	(Thu)	06:01	06:22	96	12:21	73S	18:19	265	18:41
2025	Mar	07	(Fri)	06:01	06:22	95	12:21	73S	18:20	265	18:41
2025	Mar	08	(Sat)	06:00	06:21	95	12:20	74S	18:20	265	18:41
2025	Mar	09	(Sun)	06:00	06:21	94	12:20	74S	18:20	266	18:41
2025	Mar	10	(Mon)	05:59	06:20	94	12:20	74S	18:20	266	18:41
2025	Mar	11	(Tue)	05:58	06:20	94	12:20	75S	18:20	267	18:41
2025	Mar	12	(Wed)	05:58	06:19	93	12:19	75S	18:20	267	18:41
2025	Mar	13	(Thu)	05:57	06:18	93	12:19	76S	18:20	267	18:41
2025	Mar	14	(Fri)	05:57	06:18	92	12:19	76S	18:20	268	18:41
2025	Mar	15	(Sat)	05:56	06:17	92	12:19	76S	18:20	268	18:41
2025	Mar	16	(Sun)	05:55	06:16	92	12:18	77S	18:20	269	18:41
2025	Mar	17	(Mon)	05:55	06:16	91	12:18	77S	18:20	269	18:41
2025	Mar	18	(Tue)	05:54	06:15	91	12:18	78S	18:20	269	18:42
2025	Mar	19	(Wed)	05:53	06:15	90	12:17	78S	18:20	270	18:42
2025	Mar	20	(Thu)	05:53	06:14	90	12:17	78S	18:20	270	18:42
2025	Mar	21	(Fri)	05:52	06:13	90	12:17	79S	18:20	271	18:42
2025	Mar	22	(Sat)	05:51	06:13	89	12:17	79S	18:21	271	18:42
2025	Mar	23	(Sun)	05:51	06:12	89	12:16	80S	18:21	271	18:42
2025	Mar	24	(Mon)	05:50	06:11	88	12:16	80S	18:21	272	18:42
2025	Mar	25	(Tue)	05:50	06:11	88	12:16	80S	18:21	272	18:42
2025	Mar	26	(Wed)	05:49	06:10	88	12:15	81S	18:21	273	18:42
2025	Mar	27	(Thu)	05:48	06:09	87	12:15	81S	18:21	273	18:42
2025	Mar	28	(Fri)	05:48	06:09	87	12:15	82S	18:21	273	18:42
2025	Mar	29	(Sat)	05:47	06:08	86	12:14	82S	18:21	274	18:42
2025	Mar	30	(Sun)	05:46	06:07	86	12:14	82S	18:21	274	18:42
2025	Mar	31	(Mon)	05:46	06:07	86	12:14	83S	18:21	275	18:42
2025	Apr	01	(Tue)	05:45	06:06	85	12:14	83S	18:21	275	18:42
2025	Apr	02	(Wed)	05:44	06:06	85	12:13	83S	18:21	275	18:42
2025	Apr	03	(Thu)	05:44	06:05	84	12:13	84S	18:21	276	18:42
2025	Apr	04	(Fri)	05:43	06:04	84	12:13	84S	18:21	276	18:42
2025	Apr	05	(Sat)	05:42	06:04	84	12:12	85S	18:21	277	18:42
2025	Apr	06	(Sun)	05:42	06:03	83	12:12	85S	18:21	277	18:43
2025	Apr	07	(Mon)	05:41	06:02	83	12:12	85S	18:21	277	18:43
2025	Apr	08	(Tue)	05:40	06:02	82	12:11	86S	18:21	278	18:43
2025	Apr	09	(Wed)	05:40	06:01	82	12:11	86S	18:21	278	18:43
2025	Apr	10	(Thu)	05:39	06:01	82	12:11	87S	18:21	279	18:43
2025	Apr	11	(Fri)	05:39	06:00	81	12:11	87S	18:21	279	18:43
2025	Apr	12	(Sat)	05:38	05:59	81	12:10	87S	18:22	279	18:43
2025	Apr	13	(Sun)	05:37	05:59	81	12:10	88S	18:22	280	18:43
2025	Apr	14	(Mon)	05:37	05:58	80	12:10	88S	18:22	280	18:43
2025	Apr	15	(Tue)	05:36	05:58	80	12:10	88S	18:22	280	18:43
2025	Apr	16	(Wed)	05:36	05:57	79	12:09	89S	18:22	281	18:43
2025	Apr	17	(Thu)	05:35	05:57	79	12:09	89S	18:22	281	18:44
2025	Apr	18	(Fri)	05:34	05:56	79	12:09	89S	18:22	281	18:44
2025	Apr	19	(Sat)	05:34	05:56	78	12:09	90S	18:22	282	18:44
2025	Apr	20	(Sun)	05:33	05:55	78	12:09	90S	18:22	282	18:44
2025	Apr	21	(Mon)	05:33	05:54	78	12:08	90S	18:22	283	18:44
2025	Apr	22	(Tue)	05:32	05:54	77	12:08	91N	18:22	283	18:44
2025	Apr	23	(Wed)	05:32	05:53	77	12:08	90N	18:23	283	18:44
2025	Apr	24	(Thu)	05:31	05:53	77	12:08	90N	18:23	284	18:45

2025	Apr	25	(Fri)	05:31	05:53	76	12:08	90N	18:23	284	18:45
2025	Apr	26	(Sat)	05:30	05:52	76	12:07	89N	18:23	284	18:45
2025	Apr	27	(Sun)	05:30	05:52	76	12:07	89N	18:23	285	18:45
2025	Apr	28	(Mon)	05:29	05:51	75	12:07	89N	18:23	285	18:45
2025	Apr	29	(Tue)	05:29	05:51	75	12:07	88N	18:23	285	18:45
2025	Apr	30	(Wed)	05:28	05:50	75	12:07	88N	18:24	285	18:46
2025	May	01	(Thu)	05:28	05:50	74	12:07	88N	18:24	286	18:46
2025	May	02	(Fri)	05:27	05:49	74	12:07	87N	18:24	286	18:46
2025	May	03	(Sat)	05:27	05:49	74	12:07	87N	18:24	286	18:46
2025	May	04	(Sun)	05:27	05:49	73	12:06	87N	18:24	287	18:46
2025	May	05	(Mon)	05:26	05:48	73	12:06	87N	18:25	287	18:47
2025	May	06	(Tue)	05:26	05:48	73	12:06	86N	18:25	287	18:47
2025	May	07	(Wed)	05:25	05:48	73	12:06	86N	18:25	288	18:47
2025	May	08	(Thu)	05:25	05:47	72	12:06	86N	18:25	288	18:47
2025	May	09	(Fri)	05:25	05:47	72	12:06	86N	18:25	288	18:48
2025	May	10	(Sat)	05:24	05:47	72	12:06	85N	18:26	288	18:48
2025	May	11	(Sun)	05:24	05:46	72	12:06	85N	18:26	289	18:48
2025	May	12	(Mon)	05:24	05:46	71	12:06	85N	18:26	289	18:48
2025	May	13	(Tue)	05:23	05:46	71	12:06	85N	18:26	289	18:49
2025	May	14	(Wed)	05:23	05:46	71	12:06	84N	18:26	289	18:49
2025	May	15	(Thu)	05:23	05:45	70	12:06	84N	18:27	290	18:49
2025	May	16	(Fri)	05:23	05:45	70	12:06	84N	18:27	290	18:50
2025	May	17	(Sat)	05:22	05:45	70	12:06	84N	18:27	290	18:50
2025	May	18	(Sun)	05:22	05:45	70	12:06	83N	18:27	290	18:50
2025	May	19	(Mon)	05:22	05:45	70	12:06	83N	18:28	291	18:50
2025	May	20	(Tue)	05:22	05:44	69	12:06	83N	18:28	291	18:51
2025	May	21	(Wed)	05:22	05:44	69	12:06	83N	18:28	291	18:51
2025	May	22	(Thu)	05:21	05:44	69	12:06	83N	18:29	291	18:51
2025	May	23	(Fri)	05:21	05:44	69	12:06	82N	18:29	291	18:52
2025	May	24	(Sat)	05:21	05:44	69	12:06	82N	18:29	292	18:52
2025	May	25	(Sun)	05:21	05:44	68	12:07	82N	18:29	292	18:52
2025	May	26	(Mon)	05:21	05:44	68	12:07	82N	18:30	292	18:53
2025	May	27	(Tue)	05:21	05:44	68	12:07	82N	18:30	292	18:53
2025	May	28	(Wed)	05:21	05:44	68	12:07	81N	18:30	292	18:53
2025	May	29	(Thu)	05:21	05:44	68	12:07	81N	18:31	292	18:54
2025	May	30	(Fri)	05:21	05:44	68	12:07	81N	18:31	293	18:54
2025	May	31	(Sat)	05:21	05:44	67	12:07	81N	18:31	293	18:54
2025	Jun	01	(Sun)	05:21	05:44	67	12:07	81N	18:31	293	18:55
2025	Jun	02	(Mon)	05:21	05:44	67	12:08	81N	18:32	293	18:55
2025	Jun	03	(Tue)	05:21	05:44	67	12:08	81N	18:32	293	18:55
2025	Jun	04	(Wed)	05:21	05:44	67	12:08	80N	18:32	293	18:55
2025	Jun	05	(Thu)	05:21	05:44	67	12:08	80N	18:33	293	18:56
2025	Jun	06	(Fri)	05:21	05:44	67	12:08	80N	18:33	293	18:56
2025	Jun	07	(Sat)	05:21	05:44	66	12:09	80N	18:33	294	18:56
2025	Jun	08	(Sun)	05:21	05:44	66	12:09	80N	18:33	294	18:57
2025	Jun	09	(Mon)	05:21	05:44	66	12:09	80N	18:34	294	18:57
2025	Jun	10	(Tue)	05:21	05:44	66	12:09	80N	18:34	294	18:57
2025	Jun	11	(Wed)	05:21	05:44	66	12:09	80N	18:34	294	18:58
2025	Jun	12	(Thu)	05:21	05:44	66	12:10	80N	18:35	294	18:58
2025	Jun	13	(Fri)	05:21	05:45	66	12:10	80N	18:35	294	18:58
2025	Jun	14	(Sat)	05:21	05:45	66	12:10	80N	18:35	294	18:58
2025	Jun	15	(Sun)	05:22	05:45	66	12:10	80N	18:35	294	18:59
2025	Jun	16	(Mon)	05:22	05:45	66	12:10	80N	18:36	294	18:59
2025	Jun	17	(Tue)	05:22	05:45	66	12:11	80N	18:36	294	18:59
2025	Jun	18	(Wed)	05:22	05:45	66	12:11	80N	18:36	294	18:59
2025	Jun	19	(Thu)	05:22	05:46	66	12:11	80N	18:36	294	19:00
2025	Jun	20	(Fri)	05:23	05:46	66	12:11	80N	18:37	294	19:00
2025	Jun	21	(Sat)	05:23	05:46	66	12:11	80N	18:37	294	19:00
2025	Jun	22	(Sun)	05:23	05:46	66	12:12	80N	18:37	294	19:00
2025	Jun	23	(Mon)	05:23	05:47	66	12:12	80N	18:37	294	19:01
2025	Jun	24	(Tue)	05:23	05:47	66	12:12	80N	18:37	294	19:01
2025	Jun	25	(Wed)	05:24	05:47	66	12:12	80N	18:38	294	19:01
2025	Jun	26	(Thu)	05:24	05:47	66	12:13	80N	18:38	294	19:01
2025	Jun	27	(Fri)	05:24	05:48	66	12:13	80N	18:38	294	19:01
2025	Jun	28	(Sat)	05:24	05:48	66	12:13	80N	18:38	294	19:01
2025	Jun	29	(Sun)	05:25	05:48	66	12:13	80N	18:38	294	19:02
2025	Jun	30	(Mon)	05:25	05:48	66	12:13	80N	18:38	294	19:02
2025	Jul	01	(Tue)	05:25	05:49	66	12:14	80N	18:39	294	19:02
2025	Jul	02	(Wed)	05:26	05:49	66	12:14	80N	18:39	294	19:02
2025	Jul	03	(Thu)	05:26	05:49	66	12:14	80N	18:39	294	19:02
2025	Jul	04	(Fri)	05:26	05:49	66	12:14	80N	18:39	294	19:02
2025	Jul	05	(Sat)	05:26	05:50	66	12:14	80N	18:39	293	19:02

2025	Jul	06	(Sun)	05:27	05:50	67	12:14	80N	18:39	293	19:02
2025	Jul	07	(Mon)	05:27	05:50	67	12:15	80N	18:39	293	19:02
2025	Jul	08	(Tue)	05:27	05:50	67	12:15	81N	18:39	293	19:02
2025	Jul	09	(Wed)	05:28	05:51	67	12:15	81N	18:39	293	19:02
2025	Jul	10	(Thu)	05:28	05:51	67	12:15	81N	18:39	293	19:02
2025	Jul	11	(Fri)	05:28	05:51	67	12:15	81N	18:39	293	19:02
2025	Jul	12	(Sat)	05:28	05:52	67	12:15	81N	18:39	293	19:02
2025	Jul	13	(Sun)	05:29	05:52	67	12:15	81N	18:39	292	19:02
2025	Jul	14	(Mon)	05:29	05:52	68	12:16	81N	18:39	292	19:02
2025	Jul	15	(Tue)	05:29	05:52	68	12:16	81N	18:39	292	19:02
2025	Jul	16	(Wed)	05:30	05:53	68	12:16	82N	18:39	292	19:02
2025	Jul	17	(Thu)	05:30	05:53	68	12:16	82N	18:39	292	19:02
2025	Jul	18	(Fri)	05:30	05:53	68	12:16	82N	18:39	292	19:01
2025	Jul	19	(Sat)	05:31	05:53	68	12:16	82N	18:38	291	19:01
2025	Jul	20	(Sun)	05:31	05:54	69	12:16	82N	18:38	291	19:01
2025	Jul	21	(Mon)	05:31	05:54	69	12:16	83N	18:38	291	19:01
2025	Jul	22	(Tue)	05:31	05:54	69	12:16	83N	18:38	291	19:01
2025	Jul	23	(Wed)	05:32	05:54	69	12:16	83N	18:38	291	19:01
2025	Jul	24	(Thu)	05:32	05:55	69	12:16	83N	18:38	290	19:00
2025	Jul	25	(Fri)	05:32	05:55	70	12:16	83N	18:37	290	19:00
2025	Jul	26	(Sat)	05:32	05:55	70	12:16	84N	18:37	290	19:00
2025	Jul	27	(Sun)	05:33	05:55	70	12:16	84N	18:37	290	19:00
2025	Jul	28	(Mon)	05:33	05:55	70	12:16	84N	18:37	290	18:59
2025	Jul	29	(Tue)	05:33	05:56	71	12:16	84N	18:37	289	18:59
2025	Jul	30	(Wed)	05:33	05:56	71	12:16	85N	18:36	289	18:59
2025	Jul	31	(Thu)	05:34	05:56	71	12:16	85N	18:36	289	18:58
2025	Aug	01	(Fri)	05:34	05:56	71	12:16	85N	18:36	288	18:58
2025	Aug	02	(Sat)	05:34	05:56	72	12:16	85N	18:35	288	18:58
2025	Aug	03	(Sun)	05:34	05:57	72	12:16	86N	18:35	288	18:57
2025	Aug	04	(Mon)	05:35	05:57	72	12:16	86N	18:35	288	18:57
2025	Aug	05	(Tue)	05:35	05:57	72	12:16	86N	18:34	287	18:57
2025	Aug	06	(Wed)	05:35	05:57	73	12:16	86N	18:34	287	18:56
2025	Aug	07	(Thu)	05:35	05:57	73	12:15	87N	18:33	287	18:56
2025	Aug	08	(Fri)	05:35	05:57	73	12:15	87N	18:33	287	18:55
2025	Aug	09	(Sat)	05:35	05:58	74	12:15	87N	18:33	286	18:55
2025	Aug	10	(Sun)	05:36	05:58	74	12:15	87N	18:32	286	18:54
2025	Aug	11	(Mon)	05:36	05:58	74	12:15	88N	18:32	286	18:54
2025	Aug	12	(Tue)	05:36	05:58	74	12:15	88N	18:31	285	18:53
2025	Aug	13	(Wed)	05:36	05:58	75	12:15	88N	18:31	285	18:53
2025	Aug	14	(Thu)	05:36	05:58	75	12:14	89N	18:30	285	18:52
2025	Aug	15	(Fri)	05:36	05:58	75	12:14	89N	18:30	284	18:52
2025	Aug	16	(Sat)	05:36	05:58	76	12:14	89N	18:29	284	18:51
2025	Aug	17	(Sun)	05:37	05:58	76	12:14	90N	18:29	284	18:51
2025	Aug	18	(Mon)	05:37	05:59	76	12:14	90N	18:28	283	18:50
2025	Aug	19	(Tue)	05:37	05:59	77	12:13	90N	18:28	283	18:50
2025	Aug	20	(Wed)	05:37	05:59	77	12:13	91N	18:27	283	18:49
2025	Aug	21	(Thu)	05:37	05:59	77	12:13	90S	18:27	282	18:48
2025	Aug	22	(Fri)	05:37	05:59	78	12:13	90S	18:26	282	18:48
2025	Aug	23	(Sat)	05:37	05:59	78	12:12	90S	18:26	282	18:47
2025	Aug	24	(Sun)	05:37	05:59	78	12:12	89S	18:25	281	18:47
2025	Aug	25	(Mon)	05:37	05:59	79	12:12	89S	18:24	281	18:46
2025	Aug	26	(Tue)	05:37	05:59	79	12:11	89S	18:24	281	18:45
2025	Aug	27	(Wed)	05:37	05:59	80	12:11	88S	18:23	280	18:45
2025	Aug	28	(Thu)	05:38	05:59	80	12:11	88S	18:23	280	18:44
2025	Aug	29	(Fri)	05:38	05:59	80	12:11	88S	18:22	280	18:43
2025	Aug	30	(Sat)	05:38	05:59	81	12:10	87S	18:21	279	18:43
2025	Aug	31	(Sun)	05:38	05:59	81	12:10	87S	18:21	279	18:42
2025	Sep	01	(Mon)	05:38	05:59	81	12:10	87S	18:20	278	18:42
2025	Sep	02	(Tue)	05:38	05:59	82	12:09	86S	18:19	278	18:41
2025	Sep	03	(Wed)	05:38	05:59	82	12:09	86S	18:19	278	18:40
2025	Sep	04	(Thu)	05:38	05:59	82	12:09	86S	18:18	277	18:39
2025	Sep	05	(Fri)	05:38	05:59	83	12:08	85S	18:17	277	18:39
2025	Sep	06	(Sat)	05:38	05:59	83	12:08	85S	18:17	277	18:38
2025	Sep	07	(Sun)	05:38	05:59	84	12:08	84S	18:16	276	18:37
2025	Sep	08	(Mon)	05:38	05:59	84	12:07	84S	18:15	276	18:37
2025	Sep	09	(Tue)	05:38	05:59	84	12:07	84S	18:15	275	18:36
2025	Sep	10	(Wed)	05:38	05:59	85	12:07	83S	18:14	275	18:35
2025	Sep	11	(Thu)	05:38	05:59	85	12:06	83S	18:13	275	18:35
2025	Sep	12	(Fri)	05:38	05:59	86	12:06	83S	18:13	274	18:34
2025	Sep	13	(Sat)	05:38	05:59	86	12:06	82S	18:12	274	18:33
2025	Sep	14	(Sun)	05:38	05:59	86	12:05	82S	18:11	273	18:33
2025	Sep	15	(Mon)	05:38	05:59	87	12:05	81S	18:11	273	18:32

2025	Sep	16	(Tue)	05:38	05:59	87	12:05	81S	18:10	273	18:31
2025	Sep	17	(Wed)	05:38	05:59	88	12:04	81S	18:09	272	18:30
2025	Sep	18	(Thu)	05:38	05:59	88	12:04	80S	18:09	272	18:30
2025	Sep	19	(Fri)	05:38	05:59	88	12:03	80S	18:08	271	18:29
2025	Sep	20	(Sat)	05:38	05:59	89	12:03	79S	18:07	271	18:28
2025	Sep	21	(Sun)	05:38	05:59	89	12:03	79S	18:06	271	18:28
2025	Sep	22	(Mon)	05:38	05:59	89	12:02	79S	18:06	270	18:27
2025	Sep	23	(Tue)	05:38	05:59	90	12:02	78S	18:05	270	18:26
2025	Sep	24	(Wed)	05:38	05:59	90	12:02	78S	18:04	270	18:26
2025	Sep	25	(Thu)	05:38	05:59	91	12:01	78S	18:04	269	18:25
2025	Sep	26	(Fri)	05:38	05:59	91	12:01	77S	18:03	269	18:24
2025	Sep	27	(Sat)	05:38	05:59	91	12:01	77S	18:02	268	18:24
2025	Sep	28	(Sun)	05:38	05:59	92	12:00	76S	18:02	268	18:23
2025	Sep	29	(Mon)	05:38	05:59	92	12:00	76S	18:01	268	18:22
2025	Sep	30	(Tue)	05:38	05:59	93	12:00	76S	18:00	267	18:22
2025	Oct	01	(Wed)	05:38	05:59	93	11:59	75S	18:00	267	18:21
2025	Oct	02	(Thu)	05:38	05:59	93	11:59	75S	17:59	266	18:20
2025	Oct	03	(Fri)	05:38	05:59	94	11:59	74S	17:58	266	18:20
2025	Oct	04	(Sat)	05:38	05:59	94	11:58	74S	17:58	266	18:19
2025	Oct	05	(Sun)	05:38	05:59	95	11:58	74S	17:57	265	18:18
2025	Oct	06	(Mon)	05:38	05:59	95	11:58	73S	17:57	265	18:18
2025	Oct	07	(Tue)	05:38	05:59	95	11:57	73S	17:56	264	18:17
2025	Oct	08	(Wed)	05:38	05:59	96	11:57	72S	17:55	264	18:17
2025	Oct	09	(Thu)	05:38	05:59	96	11:57	72S	17:55	264	18:16
2025	Oct	10	(Fri)	05:38	05:59	97	11:57	72S	17:54	263	18:15
2025	Oct	11	(Sat)	05:38	05:59	97	11:56	71S	17:53	263	18:15
2025	Oct	12	(Sun)	05:38	05:59	97	11:56	71S	17:53	262	18:14
2025	Oct	13	(Mon)	05:38	05:59	98	11:56	71S	17:52	262	18:14
2025	Oct	14	(Tue)	05:38	05:59	98	11:56	70S	17:52	262	18:13
2025	Oct	15	(Wed)	05:38	06:00	99	11:55	70S	17:51	261	18:13
2025	Oct	16	(Thu)	05:38	06:00	99	11:55	69S	17:51	261	18:12
2025	Oct	17	(Fri)	05:38	06:00	99	11:55	69S	17:50	261	18:12
2025	Oct	18	(Sat)	05:38	06:00	100	11:55	69S	17:50	260	18:11
2025	Oct	19	(Sun)	05:39	06:00	100	11:55	68S	17:49	260	18:11
2025	Oct	20	(Mon)	05:39	06:00	100	11:54	68S	17:49	259	18:10
2025	Oct	21	(Tue)	05:39	06:00	101	11:54	68S	17:48	259	18:10
2025	Oct	22	(Wed)	05:39	06:00	101	11:54	67S	17:48	259	18:09
2025	Oct	23	(Thu)	05:39	06:01	101	11:54	67S	17:47	258	18:09
2025	Oct	24	(Fri)	05:39	06:01	102	11:54	67S	17:47	258	18:08
2025	Oct	25	(Sat)	05:39	06:01	102	11:54	66S	17:46	258	18:08
2025	Oct	26	(Sun)	05:40	06:01	103	11:54	66S	17:46	257	18:08
2025	Oct	27	(Mon)	05:40	06:01	103	11:54	66S	17:46	257	18:07
2025	Oct	28	(Tue)	05:40	06:02	103	11:53	65S	17:45	257	18:07
2025	Oct	29	(Wed)	05:40	06:02	104	11:53	65S	17:45	256	18:07
2025	Oct	30	(Thu)	05:40	06:02	104	11:53	65S	17:44	256	18:06
2025	Oct	31	(Fri)	05:41	06:02	104	11:53	64S	17:44	256	18:06
2025	Nov	01	(Sat)	05:41	06:03	105	11:53	64S	17:44	255	18:06
2025	Nov	02	(Sun)	05:41	06:03	105	11:53	64S	17:44	255	18:05
2025	Nov	03	(Mon)	05:41	06:03	105	11:53	63S	17:43	255	18:05
2025	Nov	04	(Tue)	05:41	06:03	106	11:53	63S	17:43	254	18:05
2025	Nov	05	(Wed)	05:42	06:04	106	11:53	63S	17:43	254	18:05
2025	Nov	06	(Thu)	05:42	06:04	106	11:53	62S	17:42	254	18:04
2025	Nov	07	(Fri)	05:42	06:04	106	11:53	62S	17:42	253	18:04
2025	Nov	08	(Sat)	05:43	06:05	107	11:53	62S	17:42	253	18:04
2025	Nov	09	(Sun)	05:43	06:05	107	11:53	62S	17:42	253	18:04
2025	Nov	10	(Mon)	05:43	06:05	107	11:54	61S	17:42	252	18:04
2025	Nov	11	(Tue)	05:44	06:06	108	11:54	61S	17:42	252	18:04
2025	Nov	12	(Wed)	05:44	06:06	108	11:54	61S	17:41	252	18:04
2025	Nov	13	(Thu)	05:44	06:06	108	11:54	60S	17:41	252	18:03
2025	Nov	14	(Fri)	05:45	06:07	108	11:54	60S	17:41	251	18:03
2025	Nov	15	(Sat)	05:45	06:07	109	11:54	60S	17:41	251	18:03
2025	Nov	16	(Sun)	05:45	06:08	109	11:54	60S	17:41	251	18:03
2025	Nov	17	(Mon)	05:46	06:08	109	11:55	59S	17:41	251	18:03
2025	Nov	18	(Tue)	05:46	06:08	109	11:55	59S	17:41	250	18:03
2025	Nov	19	(Wed)	05:47	06:09	110	11:55	59S	17:41	250	18:03
2025	Nov	20	(Thu)	05:47	06:09	110	11:55	59S	17:41	250	18:03
2025	Nov	21	(Fri)	05:47	06:10	110	11:56	59S	17:41	250	18:04
2025	Nov	22	(Sat)	05:48	06:10	110	11:56	58S	17:41	249	18:04
2025	Nov	23	(Sun)	05:48	06:11	111	11:56	58S	17:41	249	18:04
2025	Nov	24	(Mon)	05:49	06:11	111	11:56	58S	17:41	249	18:04
2025	Nov	25	(Tue)	05:49	06:12	111	11:57	58S	17:41	249	18:04
2025	Nov	26	(Wed)	05:50	06:12	111	11:57	57S	17:42	249	18:04

2025	Nov	27	(Thu)	05:50	06:13	111	11:57	57S	17:42	248	18:04
2025	Nov	28	(Fri)	05:51	06:13	112	11:58	57S	17:42	248	18:05
2025	Nov	29	(Sat)	05:51	06:14	112	11:58	57S	17:42	248	18:05
2025	Nov	30	(Sun)	05:52	06:14	112	11:58	57S	17:42	248	18:05
2025	Dec	01	(Mon)	05:52	06:15	112	11:59	57S	17:42	248	18:05
2025	Dec	02	(Tue)	05:53	06:15	112	11:59	56S	17:43	248	18:05
2025	Dec	03	(Wed)	05:53	06:16	112	11:59	56S	17:43	247	18:06
2025	Dec	04	(Thu)	05:54	06:16	113	12:00	56S	17:43	247	18:06
2025	Dec	05	(Fri)	05:54	06:17	113	12:00	56S	17:43	247	18:06
2025	Dec	06	(Sat)	05:55	06:17	113	12:01	56S	17:44	247	18:07
2025	Dec	07	(Sun)	05:55	06:18	113	12:01	56S	17:44	247	18:07
2025	Dec	08	(Mon)	05:56	06:19	113	12:02	56S	17:44	247	18:07
2025	Dec	09	(Tue)	05:56	06:19	113	12:02	56S	17:45	247	18:08
2025	Dec	10	(Wed)	05:57	06:20	113	12:02	56S	17:45	247	18:08
2025	Dec	11	(Thu)	05:57	06:20	113	12:03	55S	17:46	247	18:08
2025	Dec	12	(Fri)	05:58	06:21	113	12:03	55S	17:46	247	18:09
2025	Dec	13	(Sat)	05:58	06:21	114	12:04	55S	17:46	246	18:09
2025	Dec	14	(Sun)	05:59	06:22	114	12:04	55S	17:47	246	18:10
2025	Dec	15	(Mon)	05:59	06:22	114	12:05	55S	17:47	246	18:10
2025	Dec	16	(Tue)	06:00	06:23	114	12:05	55S	17:48	246	18:11
2025	Dec	17	(Wed)	06:00	06:23	114	12:06	55S	17:48	246	18:11
2025	Dec	18	(Thu)	06:01	06:24	114	12:06	55S	17:49	246	18:12
2025	Dec	19	(Fri)	06:01	06:24	114	12:07	55S	17:49	246	18:12
2025	Dec	20	(Sat)	06:02	06:25	114	12:07	55S	17:49	246	18:12
2025	Dec	21	(Sun)	06:02	06:25	114	12:08	55S	17:50	246	18:13
2025	Dec	22	(Mon)	06:03	06:26	114	12:08	55S	17:50	246	18:13
2025	Dec	23	(Tue)	06:03	06:26	114	12:09	55S	17:51	246	18:14
2025	Dec	24	(Wed)	06:04	06:27	114	12:09	55S	17:51	246	18:14
2025	Dec	25	(Thu)	06:04	06:27	114	12:10	55S	17:52	246	18:15
2025	Dec	26	(Fri)	06:05	06:28	114	12:10	55S	17:53	246	18:16
2025	Dec	27	(Sat)	06:05	06:28	114	12:11	55S	17:53	246	18:16
2025	Dec	28	(Sun)	06:06	06:29	114	12:11	55S	17:54	246	18:17
2025	Dec	29	(Mon)	06:06	06:29	114	12:12	55S	17:54	246	18:17
2025	Dec	30	(Tue)	06:07	06:30	114	12:12	55S	17:55	246	18:18
2025	Dec	31	(Wed)	06:07	06:30	113	12:13	55S	17:55	247	18:18

Moon

Trat

Location: E102°35'20.3", N12°14'34.8", 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	°
2025	Jan	01	(Wed)	07:39	116		19:17	245	
2025	Jan	02	(Thu)	08:30	113		20:16	250	
2025	Jan	03	(Fri)	09:17	107		21:12	255	
2025	Jan	04	(Sat)	10:01	101		22:07	262	
2025	Jan	05	(Sun)	10:43	94		23:00	269	
2025	Jan	06	(Mon)	11:23	87		23:54	276	
2025	Jan	07	(Tue)	12:05	80				
2025	Jan	08	(Wed)	12:49	74		00:48	283	
2025	Jan	09	(Thu)	13:37	68		01:46	289	
2025	Jan	10	(Fri)	14:30	64		02:46	294	
2025	Jan	11	(Sat)	15:27	61		03:49	298	
2025	Jan	12	(Sun)	16:28	61		04:52	299	
2025	Jan	13	(Mon)	17:30	62		05:53	299	
2025	Jan	14	(Tue)	18:29	65	00:10	06:49	296	76N
2025	Jan	15	(Wed)	19:25	70	01:05	07:38	292	80N
2025	Jan	16	(Thu)	20:17	75	01:55	08:23	288	84N
2025	Jan	17	(Fri)	21:06	81	02:41	09:02	282	90N
2025	Jan	18	(Sat)	21:52	87	03:24	09:39	276	86S
2025	Jan	19	(Sun)	22:37	93	04:04	10:13	270	80S
2025	Jan	20	(Mon)	23:21	99	04:43	10:48	264	74S
2025	Jan	21	(Tue)			05:23	11:22	258	68S
2025	Jan	22	(Wed)	00:07	104	06:04	11:59	253	63S
2025	Jan	23	(Thu)	00:54	109	06:47	12:38	248	58S
2025	Jan	24	(Fri)	01:44	114	07:34	13:22	245	54S
2025	Jan	25	(Sat)	02:38	117	08:25	14:11	242	51S

2025	Jan	26	(Sun)	03:34	119	09:19	49S	15:05	241
2025	Jan	27	(Mon)	04:31	119	10:16	50S	16:03	241
2025	Jan	28	(Tue)	05:27	118	11:14	51S	17:03	244
2025	Jan	29	(Wed)	06:20	114	12:11	55S	18:03	248
2025	Jan	30	(Thu)	07:10	110	13:05	60S	19:02	253
2025	Jan	31	(Fri)	07:56	104	13:56	66S	19:59	260
2025	Feb	01	(Sat)	08:40	97	14:46	73S	20:54	267
2025	Feb	02	(Sun)	09:22	90	15:34	81S	21:49	274
2025	Feb	03	(Mon)	10:04	82	16:22	88S	22:44	281
2025	Feb	04	(Tue)	10:48	76	17:13	87N	23:41	288
2025	Feb	05	(Wed)	11:34	70	18:06	82N		
2025	Feb	06	(Thu)	12:25	65	19:02	77N	00:40	293
2025	Feb	07	(Fri)	13:20	62	20:01	75N	01:42	297
2025	Feb	08	(Sat)	14:19	61	21:02	74N	02:44	299
2025	Feb	09	(Sun)	15:19	61	22:00	75N	03:44	299
2025	Feb	10	(Mon)	16:18	64	22:56	78N	04:40	297
2025	Feb	11	(Tue)	17:15	68	23:47	82N	05:31	294
2025	Feb	12	(Wed)	18:08	73			06:17	290
2025	Feb	13	(Thu)	18:58	79	00:35	87N	06:58	284
2025	Feb	14	(Fri)	19:45	85	01:18	88S	07:36	278
2025	Feb	15	(Sat)	20:30	91	01:59	82S	08:11	272
2025	Feb	16	(Sun)	21:15	97	02:39	76S	08:45	266
2025	Feb	17	(Mon)	22:00	102	03:18	70S	09:20	260
2025	Feb	18	(Tue)	22:46	108	03:59	65S	09:55	255
2025	Feb	19	(Wed)	23:35	112	04:41	60S	10:33	250
2025	Feb	20	(Thu)			05:26	55S	11:15	246
2025	Feb	21	(Fri)	00:27	116	06:14	52S	12:01	243
2025	Feb	22	(Sat)	01:21	118	07:06	50S	12:52	241
2025	Feb	23	(Sun)	02:16	119	08:01	49S	13:47	241
2025	Feb	24	(Mon)	03:12	119	08:58	50S	14:45	242
2025	Feb	25	(Tue)	04:06	116	09:55	53S	15:45	245
2025	Feb	26	(Wed)	04:58	112	10:50	57S	16:45	250
2025	Feb	27	(Thu)	05:46	107	11:43	63S	17:43	256
2025	Feb	28	(Fri)	06:31	100	12:34	70S	18:41	264
2025	Mar	01	(Sat)	07:15	93	13:25	77S	19:37	271
2025	Mar	02	(Sun)	07:58	85	14:15	85S	20:34	279
2025	Mar	03	(Mon)	08:43	78	15:06	89N	21:32	285
2025	Mar	04	(Tue)	09:30	72	16:00	83N	22:33	291
2025	Mar	05	(Wed)	10:21	66	16:57	78N	23:35	296
2025	Mar	06	(Thu)	11:15	63	17:56	75N		
2025	Mar	07	(Fri)	12:14	61	18:56	74N	00:38	299
2025	Mar	08	(Sat)	13:13	61	19:55	75N	01:39	299
2025	Mar	09	(Sun)	14:13	63	20:51	77N	02:36	298
2025	Mar	10	(Mon)	15:09	66	21:43	81N	03:28	295
2025	Mar	11	(Tue)	16:03	71	22:31	86N	04:15	291
2025	Mar	12	(Wed)	16:53	76	23:15	90S	04:57	286
2025	Mar	13	(Thu)	17:40	82	23:57	84S	05:35	281
2025	Mar	14	(Fri)	18:26	88			06:10	275
2025	Mar	15	(Sat)	19:10	94	00:36	78S	06:45	269
2025	Mar	16	(Sun)	19:55	100	01:16	72S	07:19	263
2025	Mar	17	(Mon)	20:41	106	01:56	67S	07:54	257
2025	Mar	18	(Tue)	21:29	111	02:37	61S	08:31	252
2025	Mar	19	(Wed)	22:19	115	03:21	57S	09:11	247
2025	Mar	20	(Thu)	23:12	118	04:08	53S	09:55	244
2025	Mar	21	(Fri)			04:58	50S	10:43	241
2025	Mar	22	(Sat)	00:06	119	05:51	49S	11:35	241
2025	Mar	23	(Sun)	01:00	119	06:45	50S	12:31	241
2025	Mar	24	(Mon)	01:54	118	07:41	51S	13:29	244
2025	Mar	25	(Tue)	02:45	114	08:35	55S	14:27	248
2025	Mar	26	(Wed)	03:34	110	09:28	60S	15:25	253
2025	Mar	27	(Thu)	04:20	104	10:20	66S	16:22	260
2025	Mar	28	(Fri)	05:04	97	11:10	73S	17:19	267
2025	Mar	29	(Sat)	05:48	89	12:00	81S	18:17	275
2025	Mar	30	(Sun)	06:32	82	12:52	89S	19:16	282
2025	Mar	31	(Mon)	07:19	74	13:47	86N	20:17	289
2025	Apr	01	(Tue)	08:10	68	14:44	80N	21:21	294
2025	Apr	02	(Wed)	09:06	64	15:45	76N	22:26	298
2025	Apr	03	(Thu)	10:05	61	16:47	74N	23:31	299
2025	Apr	04	(Fri)	11:06	61	17:49	74N		
2025	Apr	05	(Sat)	12:07	62	18:47	76N	00:31	299
2025	Apr	06	(Sun)	13:05	65	19:41	80N	01:25	296
2025	Apr	07	(Mon)	13:59	69	20:29	84N	02:14	293

2025 Apr 08 (Tue)	14:50 75	21:14 89N	02:57 288
2025 Apr 09 (Wed)	15:38 80	21:56 86S	03:36 282
2025 Apr 10 (Thu)	16:23 86	22:36 80S	04:12 277
2025 Apr 11 (Fri)	17:08 92	23:15 74S	04:46 271
2025 Apr 12 (Sat)	17:52 98	23:55 69S	05:20 265
2025 Apr 13 (Sun)	18:38 104		05:54 259
2025 Apr 14 (Mon)	19:25 109	00:35 63S	06:31 254
2025 Apr 15 (Tue)	20:14 113	01:18 58S	07:10 249
2025 Apr 16 (Wed)	21:06 117	02:04 54S	07:52 245
2025 Apr 17 (Thu)	21:59 119	02:53 51S	08:39 242
2025 Apr 18 (Fri)	22:53 119	03:44 50S	09:29 241
2025 Apr 19 (Sat)	23:46 118	04:38 49S	10:23 241
2025 Apr 20 (Sun)		05:32 51S	11:19 243
2025 Apr 21 (Mon)	00:37 116	06:25 53S	12:15 246
2025 Apr 22 (Tue)	01:25 112	07:17 58S	13:12 251
2025 Apr 23 (Wed)	02:10 106	08:07 63S	14:07 256
2025 Apr 24 (Thu)	02:54 100	08:57 70S	15:02 263
2025 Apr 25 (Fri)	03:37 93	09:46 77S	15:58 271
2025 Apr 26 (Sat)	04:20 86	10:36 85S	16:55 278
2025 Apr 27 (Sun)	05:06 78	11:29 90N	17:56 285
2025 Apr 28 (Mon)	05:55 71	12:26 83N	19:00 292
2025 Apr 29 (Tue)	06:49 66	13:26 78N	20:06 296
2025 Apr 30 (Wed)	07:48 62	14:30 75N	21:14 299
2025 May 01 (Thu)	08:51 61	15:35 74N	22:18 299
2025 May 02 (Fri)	09:55 61	16:37 75N	23:17 297
2025 May 03 (Sat)	10:56 64	17:34 78N	
2025 May 04 (Sun)	11:53 68	18:26 83N	00:09 294
2025 May 05 (Mon)	12:46 73	19:12 88N	00:55 289
2025 May 06 (Tue)	13:35 79	19:55 88S	01:36 284
2025 May 07 (Wed)	14:21 85	20:36 82S	02:13 278
2025 May 08 (Thu)	15:06 91	21:15 76S	02:47 272
2025 May 09 (Fri)	15:50 97	21:54 70S	03:21 266
2025 May 10 (Sat)	16:35 102	22:34 65S	03:55 261
2025 May 11 (Sun)	17:22 107	23:17 60S	04:31 255
2025 May 12 (Mon)	18:11 112		05:09 250
2025 May 13 (Tue)	19:02 116	00:01 56S	05:51 246
2025 May 14 (Wed)	19:55 118	00:50 52S	06:36 243
2025 May 15 (Thu)	20:49 119	01:41 50S	07:26 241
2025 May 16 (Fri)	21:42 119	02:34 49S	08:19 241
2025 May 17 (Sat)	22:33 117	03:27 50S	09:14 242
2025 May 18 (Sun)	23:21 113	04:21 53S	10:09 245
2025 May 19 (Mon)		05:12 56S	11:05 249
2025 May 20 (Tue)	00:06 108	06:01 61S	11:59 254
2025 May 21 (Wed)	00:49 103	06:49 67S	12:52 261
2025 May 22 (Thu)	01:30 96	07:36 74S	13:45 268
2025 May 23 (Fri)	02:12 89	08:24 81S	14:40 275
2025 May 24 (Sat)	02:55 82	09:14 88S	15:37 282
2025 May 25 (Sun)	03:41 75	10:08 86N	16:38 289
2025 May 26 (Mon)	04:32 69	11:06 81N	17:43 294
2025 May 27 (Tue)	05:29 64	12:09 76N	18:51 298
2025 May 28 (Wed)	06:31 61	13:14 74N	19:58 299
2025 May 29 (Thu)	07:36 61	14:19 75N	21:01 298
2025 May 30 (Fri)	08:40 63	15:20 77N	21:58 296
2025 May 31 (Sat)	09:41 66	16:16 81N	22:48 291
2025 Jun 01 (Sun)	10:38 71	17:06 86N	23:32 286
2025 Jun 02 (Mon)	11:29 77	17:52 90S	
2025 Jun 03 (Tue)	12:17 83	18:34 84S	00:11 280
2025 Jun 04 (Wed)	13:03 89	19:14 78S	00:47 274
2025 Jun 05 (Thu)	13:47 95	19:53 72S	01:22 268
2025 Jun 06 (Fri)	14:32 100	20:33 67S	01:56 262
2025 Jun 07 (Sat)	15:18 106	21:14 61S	02:31 257
2025 Jun 08 (Sun)	16:06 111	21:58 57S	03:08 252
2025 Jun 09 (Mon)	16:57 115	22:45 53S	03:48 247
2025 Jun 10 (Tue)	17:49 117	23:36 51S	04:33 244
2025 Jun 11 (Wed)	18:44 119		05:21 242
2025 Jun 12 (Thu)	19:38 119	00:29 50S	06:14 241
2025 Jun 13 (Fri)	20:30 117	01:23 50S	07:09 242
2025 Jun 14 (Sat)	21:19 114	02:17 52S	08:05 244
2025 Jun 15 (Sun)	22:05 110	03:09 55S	09:01 248
2025 Jun 16 (Mon)	22:48 104	03:59 60S	09:55 253
2025 Jun 17 (Tue)	23:29 98	04:47 66S	10:48 259
2025 Jun 18 (Wed)		05:33 72S	11:40 265

2025 Jun 19 (Thu)	00:09 91	06:19 79S	12:32 272
2025 Jun 20 (Fri)	00:50 84	07:07 86S	13:27 279
2025 Jun 21 (Sat)	01:33 77	07:57 89N	14:24 286
2025 Jun 22 (Sun)	02:20 71	08:51 83N	15:25 292
2025 Jun 23 (Mon)	03:13 66	09:50 78N	16:30 296
2025 Jun 24 (Tue)	04:12 62	10:53 75N	17:37 299
2025 Jun 25 (Wed)	05:15 61	11:59 74N	18:42 299
2025 Jun 26 (Thu)	06:20 62	13:02 76N	19:43 297
2025 Jun 27 (Fri)	07:24 65	14:02 79N	20:37 293
2025 Jun 28 (Sat)	08:24 69	14:55 84N	21:24 288
2025 Jun 29 (Sun)	09:19 74	15:44 89N	22:06 283
2025 Jun 30 (Mon)	10:09 80	16:28 86S	22:44 277
2025 Jul 01 (Tue)	10:57 86	17:10 80S	23:20 270
2025 Jul 02 (Wed)	11:42 93	17:50 74S	23:54 264
2025 Jul 03 (Thu)	12:27 99	18:30 68S	
2025 Jul 04 (Fri)	13:13 104	19:10 63S	00:29 259
2025 Jul 05 (Sat)	14:00 109	19:54 58S	01:06 253
2025 Jul 06 (Sun)	14:50 113	20:40 54S	01:45 249
2025 Jul 07 (Mon)	15:42 117	21:29 51S	02:28 245
2025 Jul 08 (Tue)	16:36 119	22:21 50S	03:15 242
2025 Jul 09 (Wed)	17:30 119	23:16 50S	04:06 241
2025 Jul 10 (Thu)	18:24 118		05:01 241
2025 Jul 11 (Fri)	19:15 115	00:10 51S	05:58 243
2025 Jul 12 (Sat)	20:03 111	01:04 54S	06:55 246
2025 Jul 13 (Sun)	20:47 106	01:55 58S	07:50 251
2025 Jul 14 (Mon)	21:29 100	02:44 64S	08:44 257
2025 Jul 15 (Tue)	22:09 93	03:31 70S	09:37 264
2025 Jul 16 (Wed)	22:49 86	04:18 77S	10:29 271
2025 Jul 17 (Thu)	23:31 79	05:04 84S	11:22 278
2025 Jul 18 (Fri)		05:52 91N	12:17 284
2025 Jul 19 (Sat)	00:16 73	06:44 85N	13:15 290
2025 Jul 20 (Sun)	01:05 67	07:40 79N	14:17 295
2025 Jul 21 (Mon)	02:00 63	08:40 76N	15:22 298
2025 Jul 22 (Tue)	03:00 61	09:43 74N	16:26 299
2025 Jul 23 (Wed)	04:03 61	10:46 75N	17:28 298
2025 Jul 24 (Thu)	05:07 63	11:47 77N	18:24 295
2025 Jul 25 (Fri)	06:08 67	12:43 81N	19:15 291
2025 Jul 26 (Sat)	07:06 72	13:34 87N	19:59 285
2025 Jul 27 (Sun)	07:59 78	14:20 89S	20:39 279
2025 Jul 28 (Mon)	08:48 84	15:03 83S	21:16 273
2025 Jul 29 (Tue)	09:35 90	15:45 77S	21:51 267
2025 Jul 30 (Wed)	10:21 96	16:25 71S	22:27 261
2025 Jul 31 (Thu)	11:06 102	17:06 65S	23:03 255
2025 Aug 01 (Fri)	11:53 107	17:48 60S	23:41 250
2025 Aug 02 (Sat)	12:42 112	18:33 56S	
2025 Aug 03 (Sun)	13:33 116	19:21 52S	00:22 246
2025 Aug 04 (Mon)	14:26 118	20:12 50S	01:07 243
2025 Aug 05 (Tue)	15:20 119	21:05 49S	01:57 241
2025 Aug 06 (Wed)	16:14 119	22:00 50S	02:50 241
2025 Aug 07 (Thu)	17:07 117	22:55 53S	03:46 242
2025 Aug 08 (Fri)	17:56 113	23:47 57S	04:44 245
2025 Aug 09 (Sat)	18:43 108		05:41 249
2025 Aug 10 (Sun)	19:26 102	00:38 62S	06:36 255
2025 Aug 11 (Mon)	20:08 95	01:27 68S	07:31 261
2025 Aug 12 (Tue)	20:49 88	02:14 75S	08:24 268
2025 Aug 13 (Wed)	21:30 81	03:02 82S	09:18 275
2025 Aug 14 (Thu)	22:14 74	03:50 89S	10:13 282
2025 Aug 15 (Fri)	23:02 69	04:41 86N	11:10 289
2025 Aug 16 (Sat)	23:55 64	05:35 81N	12:11 294
2025 Aug 17 (Sun)		06:33 77N	13:14 297
2025 Aug 18 (Mon)	00:52 62	07:34 74N	14:17 299
2025 Aug 19 (Tue)	01:53 61	08:36 74N	15:19 299
2025 Aug 20 (Wed)	02:56 62	09:37 76N	16:16 297
2025 Aug 21 (Thu)	03:57 65	10:33 79N	17:07 293
2025 Aug 22 (Fri)	04:55 70	11:25 84N	17:53 288
2025 Aug 23 (Sat)	05:49 75	12:13 90N	18:34 282
2025 Aug 24 (Sun)	06:39 81	12:57 85S	19:12 276
2025 Aug 25 (Mon)	07:27 88	13:39 79S	19:48 269
2025 Aug 26 (Tue)	08:14 94	14:20 73S	20:24 263
2025 Aug 27 (Wed)	09:00 100	15:01 67S	20:59 257
2025 Aug 28 (Thu)	09:46 105	15:43 62S	21:37 252
2025 Aug 29 (Fri)	10:34 110	16:26 57S	22:17 248

2025 Aug 30 (Sat)	11:24 114	17:13 53S	23:00 244
2025 Aug 31 (Sun)	12:16 117	18:02 51S	23:47 242
2025 Sep 01 (Mon)	13:09 119	18:54 49S	
2025 Sep 02 (Tue)	14:03 119	19:48 50S	00:39 241
2025 Sep 03 (Wed)	14:56 118	20:42 51S	01:33 241
2025 Sep 04 (Thu)	15:46 115	21:35 55S	02:30 243
2025 Sep 05 (Fri)	16:34 110	22:27 59S	03:27 247
2025 Sep 06 (Sat)	17:19 105	23:17 65S	04:23 252
2025 Sep 07 (Sun)	18:02 98		05:18 258
2025 Sep 08 (Mon)	18:44 91	00:06 72S	06:13 265
2025 Sep 09 (Tue)	19:26 84	00:54 79S	07:08 273
2025 Sep 10 (Wed)	20:10 77	01:43 86S	08:04 280
2025 Sep 11 (Thu)	20:58 70	02:35 88N	09:02 287
2025 Sep 12 (Fri)	21:50 65	03:29 82N	10:03 292
2025 Sep 13 (Sat)	22:47 62	04:27 78N	11:07 297
2025 Sep 14 (Sun)	23:47 61	05:28 75N	12:11 299
2025 Sep 15 (Mon)		06:30 74N	13:13 299
2025 Sep 16 (Tue)	00:49 61	07:31 75N	14:11 298
2025 Sep 17 (Wed)	01:50 64	08:28 78N	15:03 294
2025 Sep 18 (Thu)	02:48 68	09:21 82N	15:50 289
2025 Sep 19 (Fri)	03:42 73	10:09 88N	16:32 284
2025 Sep 20 (Sat)	04:33 79	10:53 88S	17:11 278
2025 Sep 21 (Sun)	05:21 85	11:36 82S	17:47 272
2025 Sep 22 (Mon)	06:08 91	12:16 75S	18:22 266
2025 Sep 23 (Tue)	06:54 98	12:57 69S	18:58 260
2025 Sep 24 (Wed)	07:40 103	13:38 64S	19:34 254
2025 Sep 25 (Thu)	08:28 108	14:21 59S	20:13 249
2025 Sep 26 (Fri)	09:17 113	15:07 55S	20:55 245
2025 Sep 27 (Sat)	10:08 116	15:55 52S	21:41 242
2025 Sep 28 (Sun)	11:00 119	16:45 50S	22:30 241
2025 Sep 29 (Mon)	11:53 119	17:37 49S	23:22 241
2025 Sep 30 (Tue)	12:45 119	18:31 50S	
2025 Oct 01 (Wed)	13:36 116	19:23 53S	00:17 242
2025 Oct 02 (Thu)	14:23 113	20:15 57S	01:12 245
2025 Oct 03 (Fri)	15:09 108	21:05 62S	02:08 250
2025 Oct 04 (Sat)	15:52 102	21:53 68S	03:03 255
2025 Oct 05 (Sun)	16:34 95	22:42 75S	03:57 262
2025 Oct 06 (Mon)	17:17 87	23:31 83S	04:52 269
2025 Oct 07 (Tue)	18:01 80		05:48 276
2025 Oct 08 (Wed)	18:49 73	00:22 90S	06:47 284
2025 Oct 09 (Thu)	19:40 67	01:17 85N	07:49 290
2025 Oct 10 (Fri)	20:37 63	02:16 79N	08:54 295
2025 Oct 11 (Sat)	21:39 61	03:18 76N	10:00 298
2025 Oct 12 (Sun)	22:42 61	04:22 74N	11:05 299
2025 Oct 13 (Mon)	23:44 63	05:25 75N	12:06 298
2025 Oct 14 (Tue)		06:24 77N	13:01 295
2025 Oct 15 (Wed)	00:44 67	07:18 81N	13:49 291
2025 Oct 16 (Thu)	01:39 71	08:07 86N	14:32 286
2025 Oct 17 (Fri)	02:30 77	08:52 90S	15:11 280
2025 Oct 18 (Sat)	03:18 83	09:34 84S	15:48 274
2025 Oct 19 (Sun)	04:05 89	10:15 77S	16:23 268
2025 Oct 20 (Mon)	04:50 95	10:55 71S	16:58 262
2025 Oct 21 (Tue)	05:36 101	11:36 66S	17:34 256
2025 Oct 22 (Wed)	06:23 107	12:18 61S	18:12 251
2025 Oct 23 (Thu)	07:11 111	13:03 56S	18:53 247
2025 Oct 24 (Fri)	08:02 115	13:50 53S	19:37 243
2025 Oct 25 (Sat)	08:54 118	14:39 50S	20:24 241
2025 Oct 26 (Sun)	09:46 119	15:31 49S	21:15 241
2025 Oct 27 (Mon)	10:38 119	16:23 50S	22:09 242
2025 Oct 28 (Tue)	11:28 117	17:15 52S	23:03 244
2025 Oct 29 (Wed)	12:16 114	18:05 55S	23:57 248
2025 Oct 30 (Thu)	13:01 110	18:54 60S	
2025 Oct 31 (Fri)	13:43 104	19:42 65S	00:50 253
2025 Nov 01 (Sat)	14:25 98	20:29 72S	01:43 259
2025 Nov 02 (Sun)	15:06 91	21:16 79S	02:36 265
2025 Nov 03 (Mon)	15:49 84	22:06 86S	03:30 272
2025 Nov 04 (Tue)	16:34 77	22:59 88N	04:27 280
2025 Nov 05 (Wed)	17:24 70	23:56 82N	05:27 287
2025 Nov 06 (Thu)	18:20 65		06:32 293
2025 Nov 07 (Fri)	19:22 62	00:59 77N	07:40 297
2025 Nov 08 (Sat)	20:27 61	02:05 75N	08:48 299
2025 Nov 09 (Sun)	21:33 62	03:11 74N	09:54 299

2025 Nov 10 (Mon)	22:35 65	04:14 76N	10:53 296
2025 Nov 11 (Tue)	23:33 70	05:12 80N	11:45 292
2025 Nov 12 (Wed)		06:04 85N	12:31 287
2025 Nov 13 (Thu)	00:27 75	06:51 90N	13:11 282
2025 Nov 14 (Fri)	01:16 81	07:34 85S	13:49 276
2025 Nov 15 (Sat)	02:03 88	08:15 79S	14:24 269
2025 Nov 16 (Sun)	02:49 94	08:55 73S	14:59 263
2025 Nov 17 (Mon)	03:34 100	09:35 67S	15:34 258
2025 Nov 18 (Tue)	04:20 105	10:17 62S	16:11 253
2025 Nov 19 (Wed)	05:08 110	11:01 58S	16:51 248
2025 Nov 20 (Thu)	05:58 114	11:47 54S	17:34 244
2025 Nov 21 (Fri)	06:49 117	12:36 51S	18:21 242
2025 Nov 22 (Sat)	07:42 119	13:27 50S	19:11 241
2025 Nov 23 (Sun)	08:34 119	14:19 50S	20:04 241
2025 Nov 24 (Mon)	09:24 118	15:10 51S	20:57 243
2025 Nov 25 (Tue)	10:12 115	16:01 54S	21:51 246
2025 Nov 26 (Wed)	10:57 111	16:49 58S	22:43 251
2025 Nov 27 (Thu)	11:39 106	17:36 63S	23:35 256
2025 Nov 28 (Fri)	12:20 101	18:21 69S	
2025 Nov 29 (Sat)	12:59 94	19:07 76S	00:25 263
2025 Nov 30 (Sun)	13:40 87	19:53 83S	01:17 269
2025 Dec 01 (Mon)	14:22 80	20:43 90S	02:10 276
2025 Dec 02 (Tue)	15:08 74	21:36 85N	03:07 283
2025 Dec 03 (Wed)	16:00 68	22:35 80N	04:08 290
2025 Dec 04 (Thu)	16:59 63	23:40 76N	05:14 295
2025 Dec 05 (Fri)	18:03 61		06:23 298
2025 Dec 06 (Sat)	19:11 61	00:47 74N	07:31 299
2025 Dec 07 (Sun)	20:18 64	01:54 75N	08:36 298
2025 Dec 08 (Mon)	21:20 68	02:57 78N	09:34 294
2025 Dec 09 (Tue)	22:18 73	03:54 83N	10:24 289
2025 Dec 10 (Wed)	23:10 79	04:44 88N	11:08 284
2025 Dec 11 (Thu)	23:59 86	05:30 87S	11:47 277
2025 Dec 12 (Fri)		06:13 81S	12:24 271
2025 Dec 13 (Sat)	00:46 92	06:54 75S	12:59 265
2025 Dec 14 (Sun)	01:31 98	07:34 69S	13:35 259
2025 Dec 15 (Mon)	02:17 103	08:15 64S	14:11 254
2025 Dec 16 (Tue)	03:04 109	08:58 59S	14:50 249
2025 Dec 17 (Wed)	03:53 113	09:43 55S	15:32 245
2025 Dec 18 (Thu)	04:44 116	10:32 52S	16:18 243
2025 Dec 19 (Fri)	05:37 118	11:22 50S	17:07 241
2025 Dec 20 (Sat)	06:29 119	12:14 50S	17:59 241
2025 Dec 21 (Sun)	07:21 118	13:07 51S	18:53 243
2025 Dec 22 (Mon)	08:10 116	13:58 53S	19:47 246
2025 Dec 23 (Tue)	08:56 112	14:47 57S	20:40 250
2025 Dec 24 (Wed)	09:39 108	15:34 62S	21:31 255
2025 Dec 25 (Thu)	10:19 102	16:19 68S	22:21 261
2025 Dec 26 (Fri)	10:58 96	17:03 74S	23:11 267
2025 Dec 27 (Sat)	11:37 89	17:48 81S	
2025 Dec 28 (Sun)	12:17 83	18:34 87S	00:02 274
2025 Dec 29 (Mon)	12:59 76	19:24 88N	00:55 281
2025 Dec 30 (Tue)	13:47 70	20:18 82N	01:52 287
2025 Dec 31 (Wed)	14:40 65	21:18 78N	02:53 293