

Sun

Laempromthep

Location: E 98°18'00.0", N 7°45'00.0", 0m
(Longitude referred to Greenwich meridian)

Time Zone: 7h 00m east of Greenwich

Date (Zone)			Begin Nautical Twilight	Rise	Az.	Transit	Alt.	Set	Az.	End Nautical Twilight
			h m	h m	°	h m	°	h m	°	h m
2025	Jan	01 (Wed)	05:51	06:40	113	12:30	60S	18:21	247	19:10
2025	Jan	02 (Thu)	05:51	06:40	113	12:31	60S	18:21	247	19:10
2025	Jan	03 (Fri)	05:52	06:41	113	12:31	60S	18:22	247	19:11
2025	Jan	04 (Sat)	05:52	06:41	113	12:32	60S	18:22	247	19:11
2025	Jan	05 (Sun)	05:53	06:41	113	12:32	60S	18:23	247	19:12
2025	Jan	06 (Mon)	05:53	06:42	113	12:33	60S	18:24	247	19:12
2025	Jan	07 (Tue)	05:54	06:42	112	12:33	61S	18:24	248	19:13
2025	Jan	08 (Wed)	05:54	06:43	112	12:33	61S	18:25	248	19:13
2025	Jan	09 (Thu)	05:54	06:43	112	12:34	61S	18:25	248	19:13
2025	Jan	10 (Fri)	05:55	06:43	112	12:34	61S	18:26	248	19:14
2025	Jan	11 (Sat)	05:55	06:43	112	12:35	61S	18:26	248	19:14
2025	Jan	12 (Sun)	05:55	06:44	112	12:35	61S	18:26	248	19:15
2025	Jan	13 (Mon)	05:56	06:44	112	12:35	62S	18:27	249	19:15
2025	Jan	14 (Tue)	05:56	06:44	111	12:36	62S	18:27	249	19:16
2025	Jan	15 (Wed)	05:56	06:45	111	12:36	62S	18:28	249	19:16
2025	Jan	16 (Thu)	05:57	06:45	111	12:37	62S	18:28	249	19:16
2025	Jan	17 (Fri)	05:57	06:45	111	12:37	62S	18:29	249	19:17
2025	Jan	18 (Sat)	05:57	06:45	111	12:37	62S	18:29	249	19:17
2025	Jan	19 (Sun)	05:58	06:45	110	12:38	63S	18:30	250	19:18
2025	Jan	20 (Mon)	05:58	06:46	110	12:38	63S	18:30	250	19:18
2025	Jan	21 (Tue)	05:58	06:46	110	12:38	63S	18:31	250	19:18
2025	Jan	22 (Wed)	05:58	06:46	110	12:38	63S	18:31	250	19:19
2025	Jan	23 (Thu)	05:58	06:46	110	12:39	64S	18:31	251	19:19
2025	Jan	24 (Fri)	05:59	06:46	109	12:39	64S	18:32	251	19:19
2025	Jan	25 (Sat)	05:59	06:46	109	12:39	64S	18:32	251	19:20
2025	Jan	26 (Sun)	05:59	06:46	109	12:39	64S	18:32	251	19:20
2025	Jan	27 (Mon)	05:59	06:46	109	12:40	65S	18:33	252	19:20
2025	Jan	28 (Tue)	05:59	06:46	108	12:40	65S	18:33	252	19:20
2025	Jan	29 (Wed)	05:59	06:46	108	12:40	65S	18:33	252	19:21
2025	Jan	30 (Thu)	05:59	06:46	108	12:40	65S	18:34	252	19:21
2025	Jan	31 (Fri)	05:59	06:46	107	12:40	66S	18:34	253	19:21
2025	Feb	01 (Sat)	05:59	06:46	107	12:40	66S	18:34	253	19:21
2025	Feb	02 (Sun)	05:59	06:46	107	12:40	66S	18:35	253	19:22
2025	Feb	03 (Mon)	05:59	06:46	107	12:41	67S	18:35	254	19:22
2025	Feb	04 (Tue)	05:59	06:46	106	12:41	67S	18:35	254	19:22
2025	Feb	05 (Wed)	05:59	06:46	106	12:41	67S	18:35	254	19:22
2025	Feb	06 (Thu)	05:59	06:46	106	12:41	67S	18:36	255	19:22
2025	Feb	07 (Fri)	05:59	06:46	105	12:41	68S	18:36	255	19:23
2025	Feb	08 (Sat)	05:59	06:46	105	12:41	68S	18:36	255	19:23
2025	Feb	09 (Sun)	05:59	06:46	105	12:41	68S	18:36	255	19:23
2025	Feb	10 (Mon)	05:59	06:45	104	12:41	69S	18:37	256	19:23
2025	Feb	11 (Tue)	05:59	06:45	104	12:41	69S	18:37	256	19:23
2025	Feb	12 (Wed)	05:59	06:45	104	12:41	69S	18:37	256	19:23
2025	Feb	13 (Thu)	05:59	06:45	103	12:41	70S	18:37	257	19:23
2025	Feb	14 (Fri)	05:59	06:45	103	12:41	70S	18:37	257	19:23
2025	Feb	15 (Sat)	05:58	06:44	103	12:41	70S	18:37	257	19:23
2025	Feb	16 (Sun)	05:58	06:44	102	12:41	71S	18:38	258	19:24
2025	Feb	17 (Mon)	05:58	06:44	102	12:41	71S	18:38	258	19:24
2025	Feb	18 (Tue)	05:58	06:44	102	12:41	71S	18:38	259	19:24
2025	Feb	19 (Wed)	05:58	06:43	101	12:41	72S	18:38	259	19:24
2025	Feb	20 (Thu)	05:57	06:43	101	12:40	72S	18:38	259	19:24
2025	Feb	21 (Fri)	05:57	06:43	101	12:40	72S	18:38	260	19:24
2025	Feb	22 (Sat)	05:57	06:42	100	12:40	73S	18:38	260	19:24
2025	Feb	23 (Sun)	05:56	06:42	100	12:40	73S	18:38	260	19:24
2025	Feb	24 (Mon)	05:56	06:42	99	12:40	74S	18:38	261	19:24
2025	Feb	25 (Tue)	05:56	06:41	99	12:40	74S	18:38	261	19:24
2025	Feb	26 (Wed)	05:56	06:41	99	12:40	74S	18:38	262	19:24
2025	Feb	27 (Thu)	05:55	06:41	98	12:39	75S	18:38	262	19:24
2025	Feb	28 (Fri)	05:55	06:40	98	12:39	75S	18:38	262	19:24
2025	Mar	01 (Sat)	05:55	06:40	98	12:39	75S	18:38	263	19:24

2025	Mar	02	(Sun)	05:54	06:40	97	12:39	76S	18:38	263	19:24
2025	Mar	03	(Mon)	05:54	06:39	97	12:39	76S	18:38	263	19:24
2025	Mar	04	(Tue)	05:53	06:39	96	12:38	77S	18:38	264	19:24
2025	Mar	05	(Wed)	05:53	06:38	96	12:38	77S	18:38	264	19:24
2025	Mar	06	(Thu)	05:53	06:38	96	12:38	77S	18:38	265	19:24
2025	Mar	07	(Fri)	05:52	06:37	95	12:38	78S	18:38	265	19:24
2025	Mar	08	(Sat)	05:52	06:37	95	12:38	78S	18:38	265	19:23
2025	Mar	09	(Sun)	05:51	06:36	94	12:37	79S	18:38	266	19:23
2025	Mar	10	(Mon)	05:51	06:36	94	12:37	79S	18:38	266	19:23
2025	Mar	11	(Tue)	05:50	06:36	94	12:37	79S	18:38	267	19:23
2025	Mar	12	(Wed)	05:50	06:35	93	12:37	80S	18:38	267	19:23
2025	Mar	13	(Thu)	05:49	06:35	93	12:36	80S	18:38	267	19:23
2025	Mar	14	(Fri)	05:49	06:34	92	12:36	81S	18:38	268	19:23
2025	Mar	15	(Sat)	05:48	06:34	92	12:36	81S	18:38	268	19:23
2025	Mar	16	(Sun)	05:48	06:33	92	12:35	81S	18:38	269	19:23
2025	Mar	17	(Mon)	05:48	06:33	91	12:35	82S	18:38	269	19:23
2025	Mar	18	(Tue)	05:47	06:32	91	12:35	82S	18:38	269	19:23
2025	Mar	19	(Wed)	05:46	06:32	90	12:35	83S	18:38	270	19:23
2025	Mar	20	(Thu)	05:46	06:31	90	12:34	83S	18:38	270	19:23
2025	Mar	21	(Fri)	05:45	06:31	90	12:34	83S	18:37	271	19:23
2025	Mar	22	(Sat)	05:45	06:30	89	12:34	84S	18:37	271	19:22
2025	Mar	23	(Sun)	05:44	06:30	89	12:33	84S	18:37	271	19:22
2025	Mar	24	(Mon)	05:44	06:29	88	12:33	84S	18:37	272	19:22
2025	Mar	25	(Tue)	05:43	06:28	88	12:33	85S	18:37	272	19:22
2025	Mar	26	(Wed)	05:43	06:28	88	12:32	85S	18:37	273	19:22
2025	Mar	27	(Thu)	05:42	06:27	87	12:32	86S	18:37	273	19:22
2025	Mar	28	(Fri)	05:42	06:27	87	12:32	86S	18:37	273	19:22
2025	Mar	29	(Sat)	05:41	06:26	86	12:32	86S	18:37	274	19:22
2025	Mar	30	(Sun)	05:41	06:26	86	12:31	87S	18:37	274	19:22
2025	Mar	31	(Mon)	05:40	06:25	86	12:31	87S	18:37	275	19:22
2025	Apr	01	(Tue)	05:40	06:25	85	12:31	88S	18:37	275	19:22
2025	Apr	02	(Wed)	05:39	06:24	85	12:30	88S	18:36	275	19:22
2025	Apr	03	(Thu)	05:39	06:24	85	12:30	88S	18:36	276	19:22
2025	Apr	04	(Fri)	05:38	06:23	84	12:30	89S	18:36	276	19:22
2025	Apr	05	(Sat)	05:37	06:23	84	12:29	89S	18:36	276	19:22
2025	Apr	06	(Sun)	05:37	06:22	83	12:29	90S	18:36	277	19:22
2025	Apr	07	(Mon)	05:36	06:22	83	12:29	90S	18:36	277	19:22
2025	Apr	08	(Tue)	05:36	06:21	83	12:29	90S	18:36	278	19:22
2025	Apr	09	(Wed)	05:35	06:21	82	12:28	91S	18:36	278	19:22
2025	Apr	10	(Thu)	05:35	06:20	82	12:28	90N	18:36	278	19:22
2025	Apr	11	(Fri)	05:34	06:20	81	12:28	90N	18:36	279	19:22
2025	Apr	12	(Sat)	05:34	06:19	81	12:28	90N	18:36	279	19:22
2025	Apr	13	(Sun)	05:33	06:19	81	12:27	89N	18:36	279	19:22
2025	Apr	14	(Mon)	05:33	06:19	80	12:27	89N	18:36	280	19:22
2025	Apr	15	(Tue)	05:32	06:18	80	12:27	89N	18:36	280	19:22
2025	Apr	16	(Wed)	05:32	06:18	80	12:27	88N	18:36	281	19:22
2025	Apr	17	(Thu)	05:31	06:17	79	12:26	88N	18:36	281	19:22
2025	Apr	18	(Fri)	05:31	06:17	79	12:26	88N	18:36	281	19:22
2025	Apr	19	(Sat)	05:30	06:16	79	12:26	87N	18:36	282	19:22
2025	Apr	20	(Sun)	05:30	06:16	78	12:26	87N	18:36	282	19:22
2025	Apr	21	(Mon)	05:29	06:16	78	12:25	87N	18:36	282	19:22
2025	Apr	22	(Tue)	05:29	06:15	78	12:25	86N	18:36	283	19:22
2025	Apr	23	(Wed)	05:28	06:15	77	12:25	86N	18:36	283	19:22
2025	Apr	24	(Thu)	05:28	06:14	77	12:25	86N	18:36	283	19:22
2025	Apr	25	(Fri)	05:28	06:14	77	12:25	85N	18:36	284	19:22
2025	Apr	26	(Sat)	05:27	06:14	76	12:25	85N	18:36	284	19:22
2025	Apr	27	(Sun)	05:27	06:13	76	12:24	85N	18:36	284	19:22
2025	Apr	28	(Mon)	05:26	06:13	76	12:24	84N	18:36	285	19:22
2025	Apr	29	(Tue)	05:26	06:13	75	12:24	84N	18:36	285	19:23
2025	Apr	30	(Wed)	05:25	06:12	75	12:24	84N	18:36	285	19:23
2025	May	01	(Thu)	05:25	06:12	75	12:24	83N	18:36	285	19:23
2025	May	02	(Fri)	05:25	06:12	74	12:24	83N	18:36	286	19:23
2025	May	03	(Sat)	05:24	06:11	74	12:24	83N	18:36	286	19:23
2025	May	04	(Sun)	05:24	06:11	74	12:24	82N	18:36	286	19:23
2025	May	05	(Mon)	05:24	06:11	73	12:23	82N	18:36	287	19:23
2025	May	06	(Tue)	05:23	06:11	73	12:23	82N	18:36	287	19:24
2025	May	07	(Wed)	05:23	06:10	73	12:23	82N	18:36	287	19:24
2025	May	08	(Thu)	05:23	06:10	73	12:23	81N	18:36	288	19:24
2025	May	09	(Fri)	05:22	06:10	72	12:23	81N	18:37	288	19:24
2025	May	10	(Sat)	05:22	06:10	72	12:23	81N	18:37	288	19:24
2025	May	11	(Sun)	05:22	06:10	72	12:23	81N	18:37	288	19:25
2025	May	12	(Mon)	05:22	06:09	72	12:23	80N	18:37	289	19:25

2025	May	13	(Tue)	05:21	06:09	71	12:23	80N	18:37	289	19:25
2025	May	14	(Wed)	05:21	06:09	71	12:23	80N	18:37	289	19:25
2025	May	15	(Thu)	05:21	06:09	71	12:23	80N	18:37	289	19:25
2025	May	16	(Fri)	05:21	06:09	71	12:23	79N	18:38	290	19:26
2025	May	17	(Sat)	05:21	06:09	70	12:23	79N	18:38	290	19:26
2025	May	18	(Sun)	05:20	06:09	70	12:23	79N	18:38	290	19:26
2025	May	19	(Mon)	05:20	06:08	70	12:23	79N	18:38	290	19:26
2025	May	20	(Tue)	05:20	06:08	70	12:23	78N	18:38	290	19:27
2025	May	21	(Wed)	05:20	06:08	69	12:23	78N	18:39	291	19:27
2025	May	22	(Thu)	05:20	06:08	69	12:23	78N	18:39	291	19:27
2025	May	23	(Fri)	05:20	06:08	69	12:24	78N	18:39	291	19:28
2025	May	24	(Sat)	05:20	06:08	69	12:24	78N	18:39	291	19:28
2025	May	25	(Sun)	05:19	06:08	69	12:24	77N	18:39	291	19:28
2025	May	26	(Mon)	05:19	06:08	69	12:24	77N	18:40	292	19:28
2025	May	27	(Tue)	05:19	06:08	68	12:24	77N	18:40	292	19:29
2025	May	28	(Wed)	05:19	06:08	68	12:24	77N	18:40	292	19:29
2025	May	29	(Thu)	05:19	06:08	68	12:24	77N	18:40	292	19:29
2025	May	30	(Fri)	05:19	06:08	68	12:24	77N	18:41	292	19:30
2025	May	31	(Sat)	05:19	06:08	68	12:24	77N	18:41	292	19:30
2025	Jun	01	(Sun)	05:19	06:08	68	12:25	76N	18:41	292	19:30
2025	Jun	02	(Mon)	05:19	06:08	67	12:25	76N	18:41	293	19:30
2025	Jun	03	(Tue)	05:19	06:09	67	12:25	76N	18:41	293	19:31
2025	Jun	04	(Wed)	05:19	06:09	67	12:25	76N	18:42	293	19:31
2025	Jun	05	(Thu)	05:19	06:09	67	12:25	76N	18:42	293	19:31
2025	Jun	06	(Fri)	05:19	06:09	67	12:26	76N	18:42	293	19:32
2025	Jun	07	(Sat)	05:19	06:09	67	12:26	76N	18:42	293	19:32
2025	Jun	08	(Sun)	05:20	06:09	67	12:26	76N	18:43	293	19:32
2025	Jun	09	(Mon)	05:20	06:09	67	12:26	76N	18:43	293	19:33
2025	Jun	10	(Tue)	05:20	06:09	67	12:26	75N	18:43	293	19:33
2025	Jun	11	(Wed)	05:20	06:09	67	12:26	75N	18:43	293	19:33
2025	Jun	12	(Thu)	05:20	06:10	66	12:27	75N	18:44	294	19:33
2025	Jun	13	(Fri)	05:20	06:10	66	12:27	75N	18:44	294	19:34
2025	Jun	14	(Sat)	05:20	06:10	66	12:27	75N	18:44	294	19:34
2025	Jun	15	(Sun)	05:21	06:10	66	12:27	75N	18:44	294	19:34
2025	Jun	16	(Mon)	05:21	06:10	66	12:28	75N	18:45	294	19:34
2025	Jun	17	(Tue)	05:21	06:11	66	12:28	75N	18:45	294	19:35
2025	Jun	18	(Wed)	05:21	06:11	66	12:28	75N	18:45	294	19:35
2025	Jun	19	(Thu)	05:21	06:11	66	12:28	75N	18:45	294	19:35
2025	Jun	20	(Fri)	05:21	06:11	66	12:28	75N	18:46	294	19:35
2025	Jun	21	(Sat)	05:22	06:11	66	12:29	75N	18:46	294	19:36
2025	Jun	22	(Sun)	05:22	06:12	66	12:29	75N	18:46	294	19:36
2025	Jun	23	(Mon)	05:22	06:12	66	12:29	75N	18:46	294	19:36
2025	Jun	24	(Tue)	05:22	06:12	66	12:29	75N	18:46	294	19:36
2025	Jun	25	(Wed)	05:23	06:12	66	12:29	75N	18:47	294	19:36
2025	Jun	26	(Thu)	05:23	06:13	66	12:30	75N	18:47	294	19:37
2025	Jun	27	(Fri)	05:23	06:13	66	12:30	75N	18:47	294	19:37
2025	Jun	28	(Sat)	05:23	06:13	66	12:30	75N	18:47	294	19:37
2025	Jun	29	(Sun)	05:24	06:13	66	12:30	75N	18:47	294	19:37
2025	Jun	30	(Mon)	05:24	06:13	66	12:31	75N	18:48	293	19:37
2025	Jul	01	(Tue)	05:24	06:14	67	12:31	75N	18:48	293	19:37
2025	Jul	02	(Wed)	05:24	06:14	67	12:31	75N	18:48	293	19:37
2025	Jul	03	(Thu)	05:25	06:14	67	12:31	76N	18:48	293	19:37
2025	Jul	04	(Fri)	05:25	06:14	67	12:31	76N	18:48	293	19:38
2025	Jul	05	(Sat)	05:25	06:15	67	12:31	76N	18:48	293	19:38
2025	Jul	06	(Sun)	05:25	06:15	67	12:32	76N	18:48	293	19:38
2025	Jul	07	(Mon)	05:26	06:15	67	12:32	76N	18:48	293	19:38
2025	Jul	08	(Tue)	05:26	06:15	67	12:32	76N	18:48	293	19:38
2025	Jul	09	(Wed)	05:26	06:16	67	12:32	76N	18:49	293	19:38
2025	Jul	10	(Thu)	05:27	06:16	67	12:32	76N	18:49	293	19:38
2025	Jul	11	(Fri)	05:27	06:16	68	12:32	76N	18:49	292	19:38
2025	Jul	12	(Sat)	05:27	06:16	68	12:32	77N	18:49	292	19:38
2025	Jul	13	(Sun)	05:27	06:16	68	12:33	77N	18:49	292	19:38
2025	Jul	14	(Mon)	05:28	06:17	68	12:33	77N	18:49	292	19:38
2025	Jul	15	(Tue)	05:28	06:17	68	12:33	77N	18:49	292	19:38
2025	Jul	16	(Wed)	05:28	06:17	68	12:33	77N	18:49	292	19:38
2025	Jul	17	(Thu)	05:28	06:17	68	12:33	77N	18:49	291	19:37
2025	Jul	18	(Fri)	05:29	06:17	69	12:33	77N	18:49	291	19:37
2025	Jul	19	(Sat)	05:29	06:18	69	12:33	78N	18:49	291	19:37
2025	Jul	20	(Sun)	05:29	06:18	69	12:33	78N	18:48	291	19:37
2025	Jul	21	(Mon)	05:29	06:18	69	12:33	78N	18:48	291	19:37
2025	Jul	22	(Tue)	05:30	06:18	69	12:33	78N	18:48	290	19:37
2025	Jul	23	(Wed)	05:30	06:18	70	12:33	78N	18:48	290	19:37

2025	Jul	24	(Thu)	05:30	06:19	70	12:33	79N	18:48	290	19:36
2025	Jul	25	(Fri)	05:30	06:19	70	12:33	79N	18:48	290	19:36
2025	Jul	26	(Sat)	05:31	06:19	70	12:33	79N	18:48	290	19:36
2025	Jul	27	(Sun)	05:31	06:19	70	12:33	79N	18:48	289	19:36
2025	Jul	28	(Mon)	05:31	06:19	71	12:33	80N	18:48	289	19:36
2025	Jul	29	(Tue)	05:31	06:19	71	12:33	80N	18:47	289	19:35
2025	Jul	30	(Wed)	05:31	06:19	71	12:33	80N	18:47	289	19:35
2025	Jul	31	(Thu)	05:32	06:19	71	12:33	80N	18:47	288	19:35
2025	Aug	01	(Fri)	05:32	06:20	72	12:33	81N	18:47	288	19:34
2025	Aug	02	(Sat)	05:32	06:20	72	12:33	81N	18:47	288	19:34
2025	Aug	03	(Sun)	05:32	06:20	72	12:33	81N	18:46	288	19:34
2025	Aug	04	(Mon)	05:32	06:20	72	12:33	81N	18:46	287	19:34
2025	Aug	05	(Tue)	05:32	06:20	73	12:33	82N	18:46	287	19:33
2025	Aug	06	(Wed)	05:33	06:20	73	12:33	82N	18:45	287	19:33
2025	Aug	07	(Thu)	05:33	06:20	73	12:33	82N	18:45	287	19:32
2025	Aug	08	(Fri)	05:33	06:20	74	12:32	82N	18:45	286	19:32
2025	Aug	09	(Sat)	05:33	06:20	74	12:32	83N	18:45	286	19:32
2025	Aug	10	(Sun)	05:33	06:20	74	12:32	83N	18:44	286	19:31
2025	Aug	11	(Mon)	05:33	06:20	74	12:32	83N	18:44	285	19:31
2025	Aug	12	(Tue)	05:33	06:20	75	12:32	84N	18:44	285	19:30
2025	Aug	13	(Wed)	05:33	06:20	75	12:32	84N	18:43	285	19:30
2025	Aug	14	(Thu)	05:33	06:20	75	12:32	84N	18:43	284	19:30
2025	Aug	15	(Fri)	05:33	06:20	76	12:31	84N	18:42	284	19:29
2025	Aug	16	(Sat)	05:33	06:20	76	12:31	85N	18:42	284	19:29
2025	Aug	17	(Sun)	05:33	06:20	76	12:31	85N	18:42	283	19:28
2025	Aug	18	(Mon)	05:34	06:20	77	12:31	85N	18:41	283	19:28
2025	Aug	19	(Tue)	05:34	06:20	77	12:30	86N	18:41	283	19:27
2025	Aug	20	(Wed)	05:34	06:20	77	12:30	86N	18:40	282	19:27
2025	Aug	21	(Thu)	05:34	06:20	78	12:30	86N	18:40	282	19:26
2025	Aug	22	(Fri)	05:34	06:20	78	12:30	87N	18:39	282	19:26
2025	Aug	23	(Sat)	05:34	06:20	78	12:29	87N	18:39	281	19:25
2025	Aug	24	(Sun)	05:34	06:20	79	12:29	87N	18:39	281	19:25
2025	Aug	25	(Mon)	05:34	06:20	79	12:29	88N	18:38	281	19:24
2025	Aug	26	(Tue)	05:34	06:20	79	12:29	88N	18:38	280	19:24
2025	Aug	27	(Wed)	05:34	06:20	80	12:28	88N	18:37	280	19:23
2025	Aug	28	(Thu)	05:34	06:19	80	12:28	89N	18:37	280	19:22
2025	Aug	29	(Fri)	05:33	06:19	80	12:28	89N	18:36	279	19:22
2025	Aug	30	(Sat)	05:33	06:19	81	12:27	90N	18:36	279	19:21
2025	Aug	31	(Sun)	05:33	06:19	81	12:27	90N	18:35	279	19:21
2025	Sep	01	(Mon)	05:33	06:19	82	12:27	90N	18:35	278	19:20
2025	Sep	02	(Tue)	05:33	06:19	82	12:27	91N	18:34	278	19:20
2025	Sep	03	(Wed)	05:33	06:19	82	12:26	90S	18:34	278	19:19
2025	Sep	04	(Thu)	05:33	06:19	83	12:26	90S	18:33	277	19:18
2025	Sep	05	(Fri)	05:33	06:19	83	12:26	90S	18:32	277	19:18
2025	Sep	06	(Sat)	05:33	06:18	83	12:25	89S	18:32	276	19:17
2025	Sep	07	(Sun)	05:33	06:18	84	12:25	89S	18:31	276	19:17
2025	Sep	08	(Mon)	05:33	06:18	84	12:25	89S	18:31	276	19:16
2025	Sep	09	(Tue)	05:33	06:18	85	12:24	88S	18:30	275	19:16
2025	Sep	10	(Wed)	05:33	06:18	85	12:24	88S	18:30	275	19:15
2025	Sep	11	(Thu)	05:32	06:18	85	12:23	87S	18:29	275	19:14
2025	Sep	12	(Fri)	05:32	06:18	86	12:23	87S	18:29	274	19:14
2025	Sep	13	(Sat)	05:32	06:17	86	12:23	87S	18:28	274	19:13
2025	Sep	14	(Sun)	05:32	06:17	86	12:22	86S	18:27	273	19:13
2025	Sep	15	(Mon)	05:32	06:17	87	12:22	86S	18:27	273	19:12
2025	Sep	16	(Tue)	05:32	06:17	87	12:22	85S	18:26	273	19:11
2025	Sep	17	(Wed)	05:32	06:17	88	12:21	85S	18:26	272	19:11
2025	Sep	18	(Thu)	05:32	06:17	88	12:21	85S	18:25	272	19:10
2025	Sep	19	(Fri)	05:31	06:17	88	12:21	84S	18:25	271	19:10
2025	Sep	20	(Sat)	05:31	06:16	89	12:20	84S	18:24	271	19:09
2025	Sep	21	(Sun)	05:31	06:16	89	12:20	84S	18:23	271	19:09
2025	Sep	22	(Mon)	05:31	06:16	90	12:20	83S	18:23	270	19:08
2025	Sep	23	(Tue)	05:31	06:16	90	12:19	83S	18:22	270	19:07
2025	Sep	24	(Wed)	05:31	06:16	90	12:19	82S	18:22	269	19:07
2025	Sep	25	(Thu)	05:31	06:16	91	12:18	82S	18:21	269	19:06
2025	Sep	26	(Fri)	05:30	06:16	91	12:18	82S	18:21	269	19:06
2025	Sep	27	(Sat)	05:30	06:15	92	12:18	81S	18:20	268	19:05
2025	Sep	28	(Sun)	05:30	06:15	92	12:17	81S	18:20	268	19:05
2025	Sep	29	(Mon)	05:30	06:15	92	12:17	80S	18:19	267	19:04
2025	Sep	30	(Tue)	05:30	06:15	93	12:17	80S	18:18	267	19:04
2025	Oct	01	(Wed)	05:30	06:15	93	12:16	80S	18:18	267	19:03
2025	Oct	02	(Thu)	05:30	06:15	94	12:16	79S	18:17	266	19:03
2025	Oct	03	(Fri)	05:30	06:15	94	12:16	79S	18:17	266	19:02

2025	Oct	04	(Sat)	05:29	06:15	94	12:16	79S	18:16	266	19:02
2025	Oct	05	(Sun)	05:29	06:15	95	12:15	78S	18:16	265	19:01
2025	Oct	06	(Mon)	05:29	06:14	95	12:15	78S	18:15	265	19:01
2025	Oct	07	(Tue)	05:29	06:14	95	12:15	77S	18:15	264	19:00
2025	Oct	08	(Wed)	05:29	06:14	96	12:14	77S	18:14	264	19:00
2025	Oct	09	(Thu)	05:29	06:14	96	12:14	77S	18:14	264	18:59
2025	Oct	10	(Fri)	05:29	06:14	97	12:14	76S	18:13	263	18:59
2025	Oct	11	(Sat)	05:29	06:14	97	12:14	76S	18:13	263	18:58
2025	Oct	12	(Sun)	05:29	06:14	97	12:13	75S	18:12	262	18:58
2025	Oct	13	(Mon)	05:29	06:14	98	12:13	75S	18:12	262	18:57
2025	Oct	14	(Tue)	05:28	06:14	98	12:13	75S	18:12	262	18:57
2025	Oct	15	(Wed)	05:28	06:14	98	12:13	74S	18:11	261	18:57
2025	Oct	16	(Thu)	05:28	06:14	99	12:12	74S	18:11	261	18:56
2025	Oct	17	(Fri)	05:28	06:14	99	12:12	74S	18:10	261	18:56
2025	Oct	18	(Sat)	05:28	06:14	100	12:12	73S	18:10	260	18:56
2025	Oct	19	(Sun)	05:28	06:14	100	12:12	73S	18:10	260	18:55
2025	Oct	20	(Mon)	05:28	06:14	100	12:12	73S	18:09	259	18:55
2025	Oct	21	(Tue)	05:28	06:14	101	12:11	72S	18:09	259	18:55
2025	Oct	22	(Wed)	05:28	06:14	101	12:11	72S	18:08	259	18:54
2025	Oct	23	(Thu)	05:28	06:14	101	12:11	71S	18:08	258	18:54
2025	Oct	24	(Fri)	05:28	06:14	102	12:11	71S	18:08	258	18:54
2025	Oct	25	(Sat)	05:28	06:14	102	12:11	71S	18:08	258	18:54
2025	Oct	26	(Sun)	05:28	06:14	102	12:11	70S	18:07	257	18:53
2025	Oct	27	(Mon)	05:28	06:14	103	12:11	70S	18:07	257	18:53
2025	Oct	28	(Tue)	05:28	06:14	103	12:11	70S	18:07	257	18:53
2025	Oct	29	(Wed)	05:28	06:15	103	12:11	69S	18:06	256	18:53
2025	Oct	30	(Thu)	05:28	06:15	104	12:10	69S	18:06	256	18:52
2025	Oct	31	(Fri)	05:28	06:15	104	12:10	69S	18:06	256	18:52
2025	Nov	01	(Sat)	05:29	06:15	104	12:10	68S	18:06	255	18:52
2025	Nov	02	(Sun)	05:29	06:15	105	12:10	68S	18:06	255	18:52
2025	Nov	03	(Mon)	05:29	06:15	105	12:10	68S	18:05	255	18:52
2025	Nov	04	(Tue)	05:29	06:15	105	12:10	68S	18:05	254	18:52
2025	Nov	05	(Wed)	05:29	06:16	106	12:10	67S	18:05	254	18:52
2025	Nov	06	(Thu)	05:29	06:16	106	12:10	67S	18:05	254	18:52
2025	Nov	07	(Fri)	05:29	06:16	106	12:10	67S	18:05	254	18:52
2025	Nov	08	(Sat)	05:29	06:16	107	12:11	66S	18:05	253	18:52
2025	Nov	09	(Sun)	05:30	06:17	107	12:11	66S	18:05	253	18:52
2025	Nov	10	(Mon)	05:30	06:17	107	12:11	66S	18:05	253	18:52
2025	Nov	11	(Tue)	05:30	06:17	107	12:11	65S	18:05	252	18:52
2025	Nov	12	(Wed)	05:30	06:17	108	12:11	65S	18:04	252	18:52
2025	Nov	13	(Thu)	05:30	06:18	108	12:11	65S	18:04	252	18:52
2025	Nov	14	(Fri)	05:31	06:18	108	12:11	65S	18:04	252	18:52
2025	Nov	15	(Sat)	05:31	06:18	109	12:11	64S	18:04	251	18:52
2025	Nov	16	(Sun)	05:31	06:19	109	12:12	64S	18:05	251	18:52
2025	Nov	17	(Mon)	05:31	06:19	109	12:12	64S	18:05	251	18:52
2025	Nov	18	(Tue)	05:32	06:19	109	12:12	64S	18:05	251	18:52
2025	Nov	19	(Wed)	05:32	06:20	110	12:12	63S	18:05	250	18:52
2025	Nov	20	(Thu)	05:32	06:20	110	12:12	63S	18:05	250	18:53
2025	Nov	21	(Fri)	05:33	06:20	110	12:13	63S	18:05	250	18:53
2025	Nov	22	(Sat)	05:33	06:21	110	12:13	63S	18:05	250	18:53
2025	Nov	23	(Sun)	05:33	06:21	110	12:13	63S	18:05	249	18:53
2025	Nov	24	(Mon)	05:34	06:22	111	12:13	62S	18:05	249	18:53
2025	Nov	25	(Tue)	05:34	06:22	111	12:14	62S	18:06	249	18:54
2025	Nov	26	(Wed)	05:34	06:22	111	12:14	62S	18:06	249	18:54
2025	Nov	27	(Thu)	05:35	06:23	111	12:14	62S	18:06	249	18:54
2025	Nov	28	(Fri)	05:35	06:23	111	12:15	62S	18:06	249	18:54
2025	Nov	29	(Sat)	05:35	06:24	112	12:15	61S	18:06	248	18:55
2025	Nov	30	(Sun)	05:36	06:24	112	12:15	61S	18:07	248	18:55
2025	Dec	01	(Mon)	05:36	06:25	112	12:16	61S	18:07	248	18:55
2025	Dec	02	(Tue)	05:37	06:25	112	12:16	61S	18:07	248	18:56
2025	Dec	03	(Wed)	05:37	06:26	112	12:17	61S	18:08	248	18:56
2025	Dec	04	(Thu)	05:37	06:26	112	12:17	61S	18:08	248	18:56
2025	Dec	05	(Fri)	05:38	06:26	112	12:17	61S	18:08	247	18:57
2025	Dec	06	(Sat)	05:38	06:27	113	12:18	60S	18:09	247	18:57
2025	Dec	07	(Sun)	05:39	06:27	113	12:18	60S	18:09	247	18:58
2025	Dec	08	(Mon)	05:39	06:28	113	12:19	60S	18:09	247	18:58
2025	Dec	09	(Tue)	05:40	06:28	113	12:19	60S	18:10	247	18:58
2025	Dec	10	(Wed)	05:40	06:29	113	12:20	60S	18:10	247	18:59
2025	Dec	11	(Thu)	05:41	06:29	113	12:20	60S	18:11	247	18:59
2025	Dec	12	(Fri)	05:41	06:30	113	12:20	60S	18:11	247	19:00
2025	Dec	13	(Sat)	05:42	06:31	113	12:21	60S	18:11	247	19:00
2025	Dec	14	(Sun)	05:42	06:31	113	12:21	60S	18:12	247	19:01

2025	Dec 15	(Mon)	05:43	06:32	113	12:22	60S	18:12	247	19:01
2025	Dec 16	(Tue)	05:43	06:32	113	12:22	60S	18:13	247	19:02
2025	Dec 17	(Wed)	05:44	06:33	113	12:23	60S	18:13	247	19:02
2025	Dec 18	(Thu)	05:44	06:33	113	12:23	60S	18:14	246	19:03
2025	Dec 19	(Fri)	05:45	06:34	114	12:24	60S	18:14	246	19:03
2025	Dec 20	(Sat)	05:45	06:34	114	12:24	60S	18:15	246	19:04
2025	Dec 21	(Sun)	05:46	06:35	114	12:25	60S	18:15	246	19:04
2025	Dec 22	(Mon)	05:46	06:35	114	12:25	60S	18:16	246	19:05
2025	Dec 23	(Tue)	05:47	06:36	114	12:26	60S	18:16	246	19:05
2025	Dec 24	(Wed)	05:47	06:36	114	12:26	60S	18:17	246	19:06
2025	Dec 25	(Thu)	05:48	06:37	114	12:27	60S	18:17	247	19:06
2025	Dec 26	(Fri)	05:48	06:37	113	12:27	60S	18:18	247	19:07
2025	Dec 27	(Sat)	05:49	06:38	113	12:28	60S	18:18	247	19:07
2025	Dec 28	(Sun)	05:49	06:38	113	12:28	60S	18:19	247	19:08
2025	Dec 29	(Mon)	05:50	06:38	113	12:29	60S	18:19	247	19:08
2025	Dec 30	(Tue)	05:50	06:39	113	12:29	60S	18:20	247	19:09
2025	Dec 31	(Wed)	05:50	06:39	113	12:30	60S	18:20	247	19:09

Sun

Laempromthep

Location: E 98°18'00.0", N 7°45'00.0", 0m
(Longitude referred to Greenwich meridian)

Time Zone: 7h 00m east of Greenwich

Date (Zone)	Begin Civil Twilight	Rise	Az.	Transit Alt.	Set	Az.	End Civil Twilight
	h m	h m °		h m °	h m °		h m
2025 Jan 01 (Wed)	06:17	06:40 113		12:30 60S	18:21 247		18:44
2025 Jan 02 (Thu)	06:18	06:40 113		12:31 60S	18:21 247		18:44
2025 Jan 03 (Fri)	06:18	06:41 113		12:31 60S	18:22 247		18:45
2025 Jan 04 (Sat)	06:18	06:41 113		12:32 60S	18:22 247		18:45
2025 Jan 05 (Sun)	06:19	06:41 113		12:32 60S	18:23 247		18:46
2025 Jan 06 (Mon)	06:19	06:42 113		12:33 60S	18:24 247		18:46
2025 Jan 07 (Tue)	06:20	06:42 112		12:33 61S	18:24 248		18:47
2025 Jan 08 (Wed)	06:20	06:43 112		12:33 61S	18:25 248		18:47
2025 Jan 09 (Thu)	06:20	06:43 112		12:34 61S	18:25 248		18:47
2025 Jan 10 (Fri)	06:21	06:43 112		12:34 61S	18:26 248		18:48
2025 Jan 11 (Sat)	06:21	06:43 112		12:35 61S	18:26 248		18:48
2025 Jan 12 (Sun)	06:21	06:44 112		12:35 61S	18:26 248		18:49
2025 Jan 13 (Mon)	06:22	06:44 112		12:35 62S	18:27 249		18:49
2025 Jan 14 (Tue)	06:22	06:44 111		12:36 62S	18:27 249		18:50
2025 Jan 15 (Wed)	06:22	06:45 111		12:36 62S	18:28 249		18:50
2025 Jan 16 (Thu)	06:22	06:45 111		12:37 62S	18:28 249		18:51
2025 Jan 17 (Fri)	06:23	06:45 111		12:37 62S	18:29 249		18:51
2025 Jan 18 (Sat)	06:23	06:45 111		12:37 62S	18:29 249		18:51
2025 Jan 19 (Sun)	06:23	06:45 110		12:38 63S	18:30 250		18:52
2025 Jan 20 (Mon)	06:23	06:46 110		12:38 63S	18:30 250		18:52
2025 Jan 21 (Tue)	06:24	06:46 110		12:38 63S	18:31 250		18:53
2025 Jan 22 (Wed)	06:24	06:46 110		12:38 63S	18:31 250		18:53
2025 Jan 23 (Thu)	06:24	06:46 110		12:39 64S	18:31 251		18:53
2025 Jan 24 (Fri)	06:24	06:46 109		12:39 64S	18:32 251		18:54
2025 Jan 25 (Sat)	06:24	06:46 109		12:39 64S	18:32 251		18:54
2025 Jan 26 (Sun)	06:24	06:46 109		12:39 64S	18:32 251		18:54
2025 Jan 27 (Mon)	06:24	06:46 109		12:40 65S	18:33 252		18:55
2025 Jan 28 (Tue)	06:24	06:46 108		12:40 65S	18:33 252		18:55
2025 Jan 29 (Wed)	06:25	06:46 108		12:40 65S	18:33 252		18:55
2025 Jan 30 (Thu)	06:25	06:46 108		12:40 65S	18:34 252		18:56
2025 Jan 31 (Fri)	06:25	06:46 107		12:40 66S	18:34 253		18:56
2025 Feb 01 (Sat)	06:25	06:46 107		12:40 66S	18:34 253		18:56
2025 Feb 02 (Sun)	06:25	06:46 107		12:40 66S	18:35 253		18:56
2025 Feb 03 (Mon)	06:25	06:46 107		12:41 67S	18:35 254		18:57
2025 Feb 04 (Tue)	06:25	06:46 106		12:41 67S	18:35 254		18:57
2025 Feb 05 (Wed)	06:25	06:46 106		12:41 67S	18:35 254		18:57
2025 Feb 06 (Thu)	06:24	06:46 106		12:41 67S	18:36 255		18:57
2025 Feb 07 (Fri)	06:24	06:46 105		12:41 68S	18:36 255		18:58
2025 Feb 08 (Sat)	06:24	06:46 105		12:41 68S	18:36 255		18:58
2025 Feb 09 (Sun)	06:24	06:46 105		12:41 68S	18:36 255		18:58
2025 Feb 10 (Mon)	06:24	06:45 104		12:41 69S	18:37 256		18:58
2025 Feb 11 (Tue)	06:24	06:45 104		12:41 69S	18:37 256		18:58

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

2025	Apr	25	(Fri)	05:53	06:14	77	12:25	85N	18:36	284	18:57
2025	Apr	26	(Sat)	05:52	06:14	76	12:25	85N	18:36	284	18:57
2025	Apr	27	(Sun)	05:52	06:13	76	12:24	85N	18:36	284	18:57
2025	Apr	28	(Mon)	05:51	06:13	76	12:24	84N	18:36	285	18:57
2025	Apr	29	(Tue)	05:51	06:13	75	12:24	84N	18:36	285	18:57
2025	Apr	30	(Wed)	05:51	06:12	75	12:24	84N	18:36	285	18:57
2025	May	01	(Thu)	05:50	06:12	75	12:24	83N	18:36	285	18:58
2025	May	02	(Fri)	05:50	06:12	74	12:24	83N	18:36	286	18:58
2025	May	03	(Sat)	05:50	06:11	74	12:24	83N	18:36	286	18:58
2025	May	04	(Sun)	05:49	06:11	74	12:24	82N	18:36	286	18:58
2025	May	05	(Mon)	05:49	06:11	73	12:23	82N	18:36	287	18:58
2025	May	06	(Tue)	05:49	06:11	73	12:23	82N	18:36	287	18:58
2025	May	07	(Wed)	05:49	06:10	73	12:23	82N	18:36	287	18:58
2025	May	08	(Thu)	05:48	06:10	73	12:23	81N	18:36	288	18:58
2025	May	09	(Fri)	05:48	06:10	72	12:23	81N	18:37	288	18:59
2025	May	10	(Sat)	05:48	06:10	72	12:23	81N	18:37	288	18:59
2025	May	11	(Sun)	05:48	06:10	72	12:23	81N	18:37	288	18:59
2025	May	12	(Mon)	05:47	06:09	72	12:23	80N	18:37	289	18:59
2025	May	13	(Tue)	05:47	06:09	71	12:23	80N	18:37	289	18:59
2025	May	14	(Wed)	05:47	06:09	71	12:23	80N	18:37	289	18:59
2025	May	15	(Thu)	05:47	06:09	71	12:23	80N	18:37	289	19:00
2025	May	16	(Fri)	05:47	06:09	71	12:23	79N	18:38	290	19:00
2025	May	17	(Sat)	05:46	06:09	70	12:23	79N	18:38	290	19:00
2025	May	18	(Sun)	05:46	06:09	70	12:23	79N	18:38	290	19:00
2025	May	19	(Mon)	05:46	06:08	70	12:23	79N	18:38	290	19:00
2025	May	20	(Tue)	05:46	06:08	70	12:23	78N	18:38	290	19:01
2025	May	21	(Wed)	05:46	06:08	69	12:23	78N	18:39	291	19:01
2025	May	22	(Thu)	05:46	06:08	69	12:23	78N	18:39	291	19:01
2025	May	23	(Fri)	05:46	06:08	69	12:24	78N	18:39	291	19:01
2025	May	24	(Sat)	05:46	06:08	69	12:24	78N	18:39	291	19:02
2025	May	25	(Sun)	05:46	06:08	69	12:24	77N	18:39	291	19:02
2025	May	26	(Mon)	05:46	06:08	69	12:24	77N	18:40	292	19:02
2025	May	27	(Tue)	05:46	06:08	68	12:24	77N	18:40	292	19:02
2025	May	28	(Wed)	05:46	06:08	68	12:24	77N	18:40	292	19:03
2025	May	29	(Thu)	05:46	06:08	68	12:24	77N	18:40	292	19:03
2025	May	30	(Fri)	05:46	06:08	68	12:24	77N	18:41	292	19:03
2025	May	31	(Sat)	05:46	06:08	68	12:24	77N	18:41	292	19:03
2025	Jun	01	(Sun)	05:46	06:08	68	12:25	76N	18:41	292	19:04
2025	Jun	02	(Mon)	05:46	06:08	67	12:25	76N	18:41	293	19:04
2025	Jun	03	(Tue)	05:46	06:09	67	12:25	76N	18:41	293	19:04
2025	Jun	04	(Wed)	05:46	06:09	67	12:25	76N	18:42	293	19:04
2025	Jun	05	(Thu)	05:46	06:09	67	12:25	76N	18:42	293	19:05
2025	Jun	06	(Fri)	05:46	06:09	67	12:26	76N	18:42	293	19:05
2025	Jun	07	(Sat)	05:46	06:09	67	12:26	76N	18:42	293	19:05
2025	Jun	08	(Sun)	05:46	06:09	67	12:26	76N	18:43	293	19:06
2025	Jun	09	(Mon)	05:46	06:09	67	12:26	76N	18:43	293	19:06
2025	Jun	10	(Tue)	05:47	06:09	67	12:26	75N	18:43	293	19:06
2025	Jun	11	(Wed)	05:47	06:09	67	12:26	75N	18:43	293	19:06
2025	Jun	12	(Thu)	05:47	06:10	66	12:27	75N	18:44	294	19:07
2025	Jun	13	(Fri)	05:47	06:10	66	12:27	75N	18:44	294	19:07
2025	Jun	14	(Sat)	05:47	06:10	66	12:27	75N	18:44	294	19:07
2025	Jun	15	(Sun)	05:47	06:10	66	12:27	75N	18:44	294	19:07
2025	Jun	16	(Mon)	05:47	06:10	66	12:28	75N	18:45	294	19:08
2025	Jun	17	(Tue)	05:48	06:11	66	12:28	75N	18:45	294	19:08
2025	Jun	18	(Wed)	05:48	06:11	66	12:28	75N	18:45	294	19:08
2025	Jun	19	(Thu)	05:48	06:11	66	12:28	75N	18:45	294	19:08
2025	Jun	20	(Fri)	05:48	06:11	66	12:28	75N	18:46	294	19:09
2025	Jun	21	(Sat)	05:48	06:11	66	12:29	75N	18:46	294	19:09
2025	Jun	22	(Sun)	05:49	06:12	66	12:29	75N	18:46	294	19:09
2025	Jun	23	(Mon)	05:49	06:12	66	12:29	75N	18:46	294	19:09
2025	Jun	24	(Tue)	05:49	06:12	66	12:29	75N	18:46	294	19:09
2025	Jun	25	(Wed)	05:49	06:12	66	12:29	75N	18:47	294	19:10
2025	Jun	26	(Thu)	05:50	06:13	66	12:30	75N	18:47	294	19:10
2025	Jun	27	(Fri)	05:50	06:13	66	12:30	75N	18:47	294	19:10
2025	Jun	28	(Sat)	05:50	06:13	66	12:30	75N	18:47	294	19:10
2025	Jun	29	(Sun)	05:50	06:13	66	12:30	75N	18:47	294	19:10
2025	Jun	30	(Mon)	05:51	06:13	66	12:31	75N	18:48	293	19:10
2025	Jul	01	(Tue)	05:51	06:14	67	12:31	75N	18:48	293	19:11
2025	Jul	02	(Wed)	05:51	06:14	67	12:31	75N	18:48	293	19:11
2025	Jul	03	(Thu)	05:51	06:14	67	12:31	76N	18:48	293	19:11
2025	Jul	04	(Fri)	05:52	06:14	67	12:31	76N	18:48	293	19:11
2025	Jul	05	(Sat)	05:52	06:15	67	12:31	76N	18:48	293	19:11

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

2025	Sep	16	(Tue)	05:56	06:17	87	12:22	85S	18:26	273	18:47
2025	Sep	17	(Wed)	05:56	06:17	88	12:21	85S	18:26	272	18:47
2025	Sep	18	(Thu)	05:56	06:17	88	12:21	85S	18:25	272	18:46
2025	Sep	19	(Fri)	05:56	06:17	88	12:21	84S	18:25	271	18:45
2025	Sep	20	(Sat)	05:56	06:16	89	12:20	84S	18:24	271	18:45
2025	Sep	21	(Sun)	05:55	06:16	89	12:20	84S	18:23	271	18:44
2025	Sep	22	(Mon)	05:55	06:16	90	12:20	83S	18:23	270	18:44
2025	Sep	23	(Tue)	05:55	06:16	90	12:19	83S	18:22	270	18:43
2025	Sep	24	(Wed)	05:55	06:16	90	12:19	82S	18:22	269	18:43
2025	Sep	25	(Thu)	05:55	06:16	91	12:18	82S	18:21	269	18:42
2025	Sep	26	(Fri)	05:55	06:16	91	12:18	82S	18:21	269	18:41
2025	Sep	27	(Sat)	05:55	06:15	92	12:18	81S	18:20	268	18:41
2025	Sep	28	(Sun)	05:54	06:15	92	12:17	81S	18:20	268	18:40
2025	Sep	29	(Mon)	05:54	06:15	92	12:17	80S	18:19	267	18:40
2025	Sep	30	(Tue)	05:54	06:15	93	12:17	80S	18:18	267	18:39
2025	Oct	01	(Wed)	05:54	06:15	93	12:16	80S	18:18	267	18:39
2025	Oct	02	(Thu)	05:54	06:15	94	12:16	79S	18:17	266	18:38
2025	Oct	03	(Fri)	05:54	06:15	94	12:16	79S	18:17	266	18:38
2025	Oct	04	(Sat)	05:54	06:15	94	12:16	79S	18:16	266	18:37
2025	Oct	05	(Sun)	05:54	06:15	95	12:15	78S	18:16	265	18:37
2025	Oct	06	(Mon)	05:54	06:14	95	12:15	78S	18:15	265	18:36
2025	Oct	07	(Tue)	05:53	06:14	95	12:15	77S	18:15	264	18:36
2025	Oct	08	(Wed)	05:53	06:14	96	12:14	77S	18:14	264	18:35
2025	Oct	09	(Thu)	05:53	06:14	96	12:14	77S	18:14	264	18:35
2025	Oct	10	(Fri)	05:53	06:14	97	12:14	76S	18:13	263	18:34
2025	Oct	11	(Sat)	05:53	06:14	97	12:14	76S	18:13	263	18:34
2025	Oct	12	(Sun)	05:53	06:14	97	12:13	75S	18:12	262	18:33
2025	Oct	13	(Mon)	05:53	06:14	98	12:13	75S	18:12	262	18:33
2025	Oct	14	(Tue)	05:53	06:14	98	12:13	75S	18:12	262	18:33
2025	Oct	15	(Wed)	05:53	06:14	98	12:13	74S	18:11	261	18:32
2025	Oct	16	(Thu)	05:53	06:14	99	12:12	74S	18:11	261	18:32
2025	Oct	17	(Fri)	05:53	06:14	99	12:12	74S	18:10	261	18:31
2025	Oct	18	(Sat)	05:53	06:14	100	12:12	73S	18:10	260	18:31
2025	Oct	19	(Sun)	05:53	06:14	100	12:12	73S	18:10	260	18:31
2025	Oct	20	(Mon)	05:53	06:14	100	12:12	73S	18:09	259	18:30
2025	Oct	21	(Tue)	05:53	06:14	101	12:11	72S	18:09	259	18:30
2025	Oct	22	(Wed)	05:53	06:14	101	12:11	72S	18:08	259	18:30
2025	Oct	23	(Thu)	05:53	06:14	101	12:11	71S	18:08	258	18:29
2025	Oct	24	(Fri)	05:53	06:14	102	12:11	71S	18:08	258	18:29
2025	Oct	25	(Sat)	05:53	06:14	102	12:11	71S	18:08	258	18:29
2025	Oct	26	(Sun)	05:53	06:14	102	12:11	70S	18:07	257	18:29
2025	Oct	27	(Mon)	05:53	06:14	103	12:11	70S	18:07	257	18:28
2025	Oct	28	(Tue)	05:53	06:14	103	12:11	70S	18:07	257	18:28
2025	Oct	29	(Wed)	05:53	06:15	103	12:11	69S	18:06	256	18:28
2025	Oct	30	(Thu)	05:53	06:15	104	12:10	69S	18:06	256	18:28
2025	Oct	31	(Fri)	05:53	06:15	104	12:10	69S	18:06	256	18:27
2025	Nov	01	(Sat)	05:53	06:15	104	12:10	68S	18:06	255	18:27
2025	Nov	02	(Sun)	05:54	06:15	105	12:10	68S	18:06	255	18:27
2025	Nov	03	(Mon)	05:54	06:15	105	12:10	68S	18:05	255	18:27
2025	Nov	04	(Tue)	05:54	06:15	105	12:10	68S	18:05	254	18:27
2025	Nov	05	(Wed)	05:54	06:16	106	12:10	67S	18:05	254	18:27
2025	Nov	06	(Thu)	05:54	06:16	106	12:10	67S	18:05	254	18:27
2025	Nov	07	(Fri)	05:54	06:16	106	12:10	67S	18:05	254	18:27
2025	Nov	08	(Sat)	05:55	06:16	107	12:11	66S	18:05	253	18:26
2025	Nov	09	(Sun)	05:55	06:17	107	12:11	66S	18:05	253	18:26
2025	Nov	10	(Mon)	05:55	06:17	107	12:11	66S	18:05	253	18:26
2025	Nov	11	(Tue)	05:55	06:17	107	12:11	65S	18:05	252	18:26
2025	Nov	12	(Wed)	05:55	06:17	108	12:11	65S	18:04	252	18:26
2025	Nov	13	(Thu)	05:56	06:18	108	12:11	65S	18:04	252	18:26
2025	Nov	14	(Fri)	05:56	06:18	108	12:11	65S	18:04	252	18:26
2025	Nov	15	(Sat)	05:56	06:18	109	12:11	64S	18:04	251	18:26
2025	Nov	16	(Sun)	05:57	06:19	109	12:12	64S	18:05	251	18:27
2025	Nov	17	(Mon)	05:57	06:19	109	12:12	64S	18:05	251	18:27
2025	Nov	18	(Tue)	05:57	06:19	109	12:12	64S	18:05	251	18:27
2025	Nov	19	(Wed)	05:57	06:20	110	12:12	63S	18:05	250	18:27
2025	Nov	20	(Thu)	05:58	06:20	110	12:12	63S	18:05	250	18:27
2025	Nov	21	(Fri)	05:58	06:20	110	12:13	63S	18:05	250	18:27
2025	Nov	22	(Sat)	05:59	06:21	110	12:13	63S	18:05	250	18:27
2025	Nov	23	(Sun)	05:59	06:21	110	12:13	63S	18:05	249	18:27
2025	Nov	24	(Mon)	05:59	06:22	111	12:13	62S	18:05	249	18:28
2025	Nov	25	(Tue)	06:00	06:22	111	12:14	62S	18:06	249	18:28
2025	Nov	26	(Wed)	06:00	06:22	111	12:14	62S	18:06	249	18:28

2025	Nov	27	(Thu)	06:00	06:23	111	12:14	62S	18:06	249	18:28
2025	Nov	28	(Fri)	06:01	06:23	111	12:15	62S	18:06	249	18:29
2025	Nov	29	(Sat)	06:01	06:24	112	12:15	61S	18:06	248	18:29
2025	Nov	30	(Sun)	06:02	06:24	112	12:15	61S	18:07	248	18:29
2025	Dec	01	(Mon)	06:02	06:25	112	12:16	61S	18:07	248	18:29
2025	Dec	02	(Tue)	06:03	06:25	112	12:16	61S	18:07	248	18:30
2025	Dec	03	(Wed)	06:03	06:26	112	12:17	61S	18:08	248	18:30
2025	Dec	04	(Thu)	06:04	06:26	112	12:17	61S	18:08	248	18:30
2025	Dec	05	(Fri)	06:04	06:26	112	12:17	61S	18:08	247	18:31
2025	Dec	06	(Sat)	06:04	06:27	113	12:18	60S	18:09	247	18:31
2025	Dec	07	(Sun)	06:05	06:27	113	12:18	60S	18:09	247	18:32
2025	Dec	08	(Mon)	06:05	06:28	113	12:19	60S	18:09	247	18:32
2025	Dec	09	(Tue)	06:06	06:28	113	12:19	60S	18:10	247	18:32
2025	Dec	10	(Wed)	06:06	06:29	113	12:20	60S	18:10	247	18:33
2025	Dec	11	(Thu)	06:07	06:29	113	12:20	60S	18:11	247	18:33
2025	Dec	12	(Fri)	06:07	06:30	113	12:20	60S	18:11	247	18:34
2025	Dec	13	(Sat)	06:08	06:31	113	12:21	60S	18:11	247	18:34
2025	Dec	14	(Sun)	06:08	06:31	113	12:21	60S	18:12	247	18:34
2025	Dec	15	(Mon)	06:09	06:32	113	12:22	60S	18:12	247	18:35
2025	Dec	16	(Tue)	06:09	06:32	113	12:22	60S	18:13	247	18:35
2025	Dec	17	(Wed)	06:10	06:33	113	12:23	60S	18:13	247	18:36
2025	Dec	18	(Thu)	06:10	06:33	113	12:23	60S	18:14	246	18:36
2025	Dec	19	(Fri)	06:11	06:34	114	12:24	60S	18:14	246	18:37
2025	Dec	20	(Sat)	06:11	06:34	114	12:24	60S	18:15	246	18:37
2025	Dec	21	(Sun)	06:12	06:35	114	12:25	60S	18:15	246	18:38
2025	Dec	22	(Mon)	06:12	06:35	114	12:25	60S	18:16	246	18:38
2025	Dec	23	(Tue)	06:13	06:36	114	12:26	60S	18:16	246	18:39
2025	Dec	24	(Wed)	06:13	06:36	114	12:26	60S	18:17	246	18:39
2025	Dec	25	(Thu)	06:14	06:37	114	12:27	60S	18:17	247	18:40
2025	Dec	26	(Fri)	06:14	06:37	113	12:27	60S	18:18	247	18:40
2025	Dec	27	(Sat)	06:15	06:38	113	12:28	60S	18:18	247	18:41
2025	Dec	28	(Sun)	06:15	06:38	113	12:28	60S	18:19	247	18:41
2025	Dec	29	(Mon)	06:16	06:38	113	12:29	60S	18:19	247	18:42
2025	Dec	30	(Tue)	06:16	06:39	113	12:29	60S	18:20	247	18:42
2025	Dec	31	(Wed)	06:17	06:39	113	12:30	60S	18:20	247	18:43

Moon

Laempromthep

Location: E 98°18'00.0", N 7°45'00.0", 0m
(Longitude referred to Greenwich meridian)

Time Zone: 7h 00m east of Greenwich

Date (Zone)	Rise Az.			Transit Alt.			Set Az.		
	h	m	°	h	m	°	h	m	°
2025	Jan	01	(Wed)	07:47	116		19:44	246	
2025	Jan	02	(Thu)	08:40	112		20:41	250	
2025	Jan	03	(Fri)	09:29	107		21:35	256	
2025	Jan	04	(Sat)	10:15	101		22:27	262	
2025	Jan	05	(Sun)	10:59	94		23:18	269	
2025	Jan	06	(Mon)	11:42	87				
2025	Jan	07	(Tue)	12:26	80		00:09	276	
2025	Jan	08	(Wed)	13:12	74		01:02	283	
2025	Jan	09	(Thu)	14:02	69		01:57	289	
2025	Jan	10	(Fri)	14:57	64		02:56	294	
2025	Jan	11	(Sat)	15:55	62		03:57	297	
2025	Jan	12	(Sun)	16:56	61		05:00	299	
2025	Jan	13	(Mon)	17:57	63		06:00	298	
2025	Jan	14	(Tue)	18:56	66	00:28	06:57	296	72N
2025	Jan	15	(Wed)	19:50	70	01:23	07:48	292	75N
2025	Jan	16	(Thu)	20:40	75	02:13	08:34	287	80N
2025	Jan	17	(Fri)	21:27	81	02:59	09:16	282	85N
2025	Jan	18	(Sat)	22:11	87	03:41	09:54	276	90S
2025	Jan	19	(Sun)	22:53	93	04:22	10:31	270	84S
2025	Jan	20	(Mon)	23:36	99	05:01	11:07	264	78S
2025	Jan	21	(Tue)			05:40	11:44	258	73S
2025	Jan	22	(Wed)	00:19	104	06:21	12:22	253	67S
2025	Jan	23	(Thu)	01:05	109	07:05	13:03	249	62S
2025	Jan	24	(Fri)	01:54	113	07:52	13:49	245	58S
2025	Jan	25	(Sat)	02:46	117	08:43	14:39	242	56S

2025	Jan	26	(Sun)	03:41	118	09:37	54S	15:33	241
2025	Jan	27	(Mon)	04:38	119	10:34	54S	16:31	242
2025	Jan	28	(Tue)	05:35	117	11:32	56S	17:30	244
2025	Jan	29	(Wed)	06:30	114	12:29	60S	18:29	248
2025	Jan	30	(Thu)	07:21	109	13:23	65S	19:26	254
2025	Jan	31	(Fri)	08:10	103	14:14	71S	20:20	260
2025	Feb	01	(Sat)	08:55	97	15:03	78S	21:13	267
2025	Feb	02	(Sun)	09:40	89	15:52	85S	22:05	274
2025	Feb	03	(Mon)	10:24	82	16:40	89N	22:58	281
2025	Feb	04	(Tue)	11:10	76	17:31	83N	23:53	287
2025	Feb	05	(Wed)	11:59	70	18:24	77N		
2025	Feb	06	(Thu)	12:52	65	19:20	73N	00:50	293
2025	Feb	07	(Fri)	13:48	62	20:19	70N	01:50	296
2025	Feb	08	(Sat)	14:47	61	21:19	70N	02:51	299
2025	Feb	09	(Sun)	15:47	62	22:18	71N	03:51	299
2025	Feb	10	(Mon)	16:46	64	23:14	74N	04:48	297
2025	Feb	11	(Tue)	17:41	68			05:41	294
2025	Feb	12	(Wed)	18:32	73	00:05	78N	06:28	289
2025	Feb	13	(Thu)	19:19	79	00:52	83N	07:11	284
2025	Feb	14	(Fri)	20:04	85	01:36	89N	07:51	278
2025	Feb	15	(Sat)	20:48	91	02:17	87S	08:28	272
2025	Feb	16	(Sun)	21:30	97	02:57	81S	09:04	266
2025	Feb	17	(Mon)	22:13	102	03:36	75S	09:40	261
2025	Feb	18	(Tue)	22:58	107	04:16	69S	10:18	255
2025	Feb	19	(Wed)	23:45	112	04:59	64S	10:58	250
2025	Feb	20	(Thu)			05:44	60S	11:41	246
2025	Feb	21	(Fri)	00:35	116	06:32	56S	12:28	243
2025	Feb	22	(Sat)	01:28	118	07:24	54S	13:20	241
2025	Feb	23	(Sun)	02:24	119	08:19	54S	14:15	241
2025	Feb	24	(Mon)	03:20	118	09:16	55S	15:13	243
2025	Feb	25	(Tue)	04:15	116	10:13	58S	16:12	246
2025	Feb	26	(Wed)	05:08	112	11:08	62S	17:10	251
2025	Feb	27	(Thu)	05:58	106	12:01	68S	18:06	257
2025	Feb	28	(Fri)	06:46	100	12:52	75S	19:01	264
2025	Mar	01	(Sat)	07:32	93	13:42	82S	19:55	271
2025	Mar	02	(Sun)	08:18	85	14:32	90S	20:49	278
2025	Mar	03	(Mon)	09:05	78	15:24	85N	21:45	285
2025	Mar	04	(Tue)	09:54	72	16:18	79N	22:43	291
2025	Mar	05	(Wed)	10:47	67	17:14	74N	23:44	296
2025	Mar	06	(Thu)	11:43	63	18:14	71N		
2025	Mar	07	(Fri)	12:42	61	19:14	69N	00:45	298
2025	Mar	08	(Sat)	13:42	61	20:13	70N	01:46	299
2025	Mar	09	(Sun)	14:40	63	21:09	72N	02:44	298
2025	Mar	10	(Mon)	15:35	67	22:01	76N	03:37	295
2025	Mar	11	(Tue)	16:27	71	22:49	81N	04:25	291
2025	Mar	12	(Wed)	17:15	77	23:33	87N	05:09	286
2025	Mar	13	(Thu)	18:00	82			05:49	280
2025	Mar	14	(Fri)	18:44	88	00:14	89S	06:26	275
2025	Mar	15	(Sat)	19:26	94	00:54	83S	07:03	269
2025	Mar	16	(Sun)	20:09	100	01:33	77S	07:39	263
2025	Mar	17	(Mon)	20:54	106	02:13	71S	08:16	257
2025	Mar	18	(Tue)	21:40	110	02:55	66S	08:55	252
2025	Mar	19	(Wed)	22:28	114	03:39	61S	09:36	248
2025	Mar	20	(Thu)	23:20	117	04:25	58S	10:22	244
2025	Mar	21	(Fri)			05:15	55S	11:11	242
2025	Mar	22	(Sat)	00:13	119	06:08	54S	12:04	241
2025	Mar	23	(Sun)	01:08	119	07:03	54S	12:59	242
2025	Mar	24	(Mon)	02:02	117	07:59	56S	13:56	244
2025	Mar	25	(Tue)	02:54	114	08:53	60S	14:53	248
2025	Mar	26	(Wed)	03:45	109	09:46	65S	15:49	253
2025	Mar	27	(Thu)	04:33	103	10:37	71S	16:44	260
2025	Mar	28	(Fri)	05:19	96	11:28	78S	17:38	267
2025	Mar	29	(Sat)	06:06	89	12:18	86S	18:33	275
2025	Mar	30	(Sun)	06:53	82	13:10	88N	19:29	282
2025	Mar	31	(Mon)	07:42	75	14:04	81N	20:29	289
2025	Apr	01	(Tue)	08:36	69	15:02	76N	21:31	294
2025	Apr	02	(Wed)	09:33	64	16:03	72N	22:34	297
2025	Apr	03	(Thu)	10:33	62	17:05	70N	23:38	299
2025	Apr	04	(Fri)	11:34	61	18:07	70N		
2025	Apr	05	(Sat)	12:35	63	19:05	72N	00:38	298
2025	Apr	06	(Sun)	13:31	66	19:58	75N	01:34	296
2025	Apr	07	(Mon)	14:24	70	20:47	80N	02:24	292

2025 Apr 08 (Tue)	15:13 75	21:32 85N	03:08 288
2025 Apr 09 (Wed)	15:59 81	22:14 91N	03:49 282
2025 Apr 10 (Thu)	16:42 86	22:54 85S	04:27 276
2025 Apr 11 (Fri)	17:25 92	23:33 79S	05:03 271
2025 Apr 12 (Sat)	18:07 98		05:39 265
2025 Apr 13 (Sun)	18:51 104	00:12 73S	06:16 259
2025 Apr 14 (Mon)	19:36 109	00:53 68S	06:54 254
2025 Apr 15 (Tue)	20:24 113	01:36 63S	07:35 249
2025 Apr 16 (Wed)	21:14 116	02:22 59S	08:19 245
2025 Apr 17 (Thu)	22:07 118	03:11 56S	09:06 243
2025 Apr 18 (Fri)	23:00 119	04:02 54S	09:57 241
2025 Apr 19 (Sat)	23:54 118	04:56 54S	10:51 241
2025 Apr 20 (Sun)		05:50 55S	11:46 243
2025 Apr 21 (Mon)	00:46 115	06:43 58S	12:42 246
2025 Apr 22 (Tue)	01:35 111	07:35 62S	13:36 251
2025 Apr 23 (Wed)	02:23 106	08:25 68S	14:29 257
2025 Apr 24 (Thu)	03:08 100	09:14 75S	15:22 264
2025 Apr 25 (Fri)	03:53 93	10:03 82S	16:16 271
2025 Apr 26 (Sat)	04:39 85	10:54 89S	17:11 278
2025 Apr 27 (Sun)	05:27 78	11:47 85N	18:08 285
2025 Apr 28 (Mon)	06:19 72	12:43 78N	19:10 291
2025 Apr 29 (Tue)	07:15 66	13:44 73N	20:15 296
2025 Apr 30 (Wed)	08:16 63	14:48 70N	21:21 298
2025 May 01 (Thu)	09:20 61	15:53 70N	22:25 299
2025 May 02 (Fri)	10:23 62	16:55 71N	23:25 297
2025 May 03 (Sat)	11:23 64	17:52 74N	
2025 May 04 (Sun)	12:19 68	18:43 78N	00:19 294
2025 May 05 (Mon)	13:10 73	19:30 83N	01:06 289
2025 May 06 (Tue)	13:57 79	20:13 89N	01:48 284
2025 May 07 (Wed)	14:41 85	20:53 87S	02:27 278
2025 May 08 (Thu)	15:24 91	21:33 81S	03:04 272
2025 May 09 (Fri)	16:06 96	22:12 75S	03:40 266
2025 May 10 (Sat)	16:49 102	22:52 69S	04:16 261
2025 May 11 (Sun)	17:34 107	23:34 64S	04:54 255
2025 May 12 (Mon)	18:21 112		05:34 250
2025 May 13 (Tue)	19:10 115	00:19 60S	06:17 246
2025 May 14 (Wed)	20:03 118	01:07 57S	07:03 243
2025 May 15 (Thu)	20:56 119	01:58 55S	07:54 242
2025 May 16 (Fri)	21:50 118	02:51 54S	08:47 241
2025 May 17 (Sat)	22:41 116	03:45 55S	09:41 243
2025 May 18 (Sun)	23:31 113	04:38 57S	10:36 245
2025 May 19 (Mon)		05:30 61S	11:30 249
2025 May 20 (Tue)	00:18 108	06:19 66S	12:22 255
2025 May 21 (Wed)	01:03 102	07:07 72S	13:13 261
2025 May 22 (Thu)	01:46 96	07:54 79S	14:04 268
2025 May 23 (Fri)	02:30 89	08:42 86S	14:56 275
2025 May 24 (Sat)	03:15 82	09:32 88N	15:51 282
2025 May 25 (Sun)	04:04 75	10:26 82N	16:50 288
2025 May 26 (Mon)	04:57 69	11:24 76N	17:52 294
2025 May 27 (Tue)	05:56 64	12:26 72N	18:59 297
2025 May 28 (Wed)	06:59 62	13:32 70N	20:05 299
2025 May 29 (Thu)	08:04 61	14:37 70N	21:09 298
2025 May 30 (Fri)	09:08 63	15:38 72N	22:07 295
2025 May 31 (Sat)	10:07 67	16:34 76N	22:59 291
2025 Jun 01 (Sun)	11:02 71	17:24 81N	23:44 286
2025 Jun 02 (Mon)	11:51 77	18:09 87N	
2025 Jun 03 (Tue)	12:37 83	18:51 89S	00:25 280
2025 Jun 04 (Wed)	13:21 89	19:31 83S	01:03 274
2025 Jun 05 (Thu)	14:04 95	20:10 77S	01:40 268
2025 Jun 06 (Fri)	14:46 100	20:50 71S	02:16 262
2025 Jun 07 (Sat)	15:31 106	21:32 66S	02:53 257
2025 Jun 08 (Sun)	16:17 110	22:16 61S	03:32 252
2025 Jun 09 (Mon)	17:06 114	23:03 58S	04:14 248
2025 Jun 10 (Tue)	17:57 117	23:54 55S	05:00 244
2025 Jun 11 (Wed)	18:51 119		05:49 242
2025 Jun 12 (Thu)	19:45 118	00:47 54S	06:42 241
2025 Jun 13 (Fri)	20:38 117	01:41 54S	07:37 242
2025 Jun 14 (Sat)	21:29 114	02:35 56S	08:32 244
2025 Jun 15 (Sun)	22:16 109	03:27 60S	09:26 248
2025 Jun 16 (Mon)	23:01 104	04:17 65S	10:19 253
2025 Jun 17 (Tue)	23:44 98	05:04 70S	11:09 259
2025 Jun 18 (Wed)		05:51 77S	11:59 266

2025 Jun 19 (Thu)	00:26 91	06:37 84S	12:49 272
2025 Jun 20 (Fri)	01:10 84	07:24 91S	13:41 279
2025 Jun 21 (Sat)	01:55 77	08:15 84N	14:36 286
2025 Jun 22 (Sun)	02:45 71	09:09 78N	15:35 292
2025 Jun 23 (Mon)	03:39 66	10:08 73N	16:38 296
2025 Jun 24 (Tue)	04:39 63	11:11 70N	17:44 298
2025 Jun 25 (Wed)	05:43 61	12:17 70N	18:50 298
2025 Jun 26 (Thu)	06:48 62	13:20 71N	19:51 297
2025 Jun 27 (Fri)	07:51 65	14:20 74N	20:46 293
2025 Jun 28 (Sat)	08:49 69	15:13 79N	21:36 288
2025 Jun 29 (Sun)	09:42 75	16:02 85N	22:19 282
2025 Jun 30 (Mon)	10:30 80	16:46 91N	22:59 276
2025 Jul 01 (Tue)	11:16 87	17:27 85S	23:37 270
2025 Jul 02 (Wed)	11:59 93	18:07 79S	
2025 Jul 03 (Thu)	12:42 98	18:47 73S	00:14 264
2025 Jul 04 (Fri)	13:26 104	19:28 68S	00:51 259
2025 Jul 05 (Sat)	14:12 109	20:11 63S	01:29 254
2025 Jul 06 (Sun)	14:59 113	20:57 59S	02:10 249
2025 Jul 07 (Mon)	15:50 116	21:47 56S	02:54 245
2025 Jul 08 (Tue)	16:43 118	22:39 54S	03:42 243
2025 Jul 09 (Wed)	17:38 119	23:33 54S	04:35 241
2025 Jul 10 (Thu)	18:32 118		05:29 242
2025 Jul 11 (Fri)	19:24 115	00:28 56S	06:25 244
2025 Jul 12 (Sat)	20:13 111	01:22 59S	07:21 247
2025 Jul 13 (Sun)	21:00 106	02:13 63S	08:14 252
2025 Jul 14 (Mon)	21:43 99	03:02 69S	09:06 257
2025 Jul 15 (Tue)	22:26 93	03:49 75S	09:57 264
2025 Jul 16 (Wed)	23:08 86	04:35 82S	10:47 271
2025 Jul 17 (Thu)	23:52 79	05:22 89S	11:37 277
2025 Jul 18 (Fri)		06:10 86N	12:30 284
2025 Jul 19 (Sat)	00:39 73	07:02 80N	13:26 290
2025 Jul 20 (Sun)	01:31 68	07:58 75N	14:26 295
2025 Jul 21 (Mon)	02:27 64	08:58 71N	15:29 298
2025 Jul 22 (Tue)	03:28 62	10:01 70N	16:34 299
2025 Jul 23 (Wed)	04:32 61	11:04 70N	17:36 298
2025 Jul 24 (Thu)	05:35 63	12:05 73N	18:33 295
2025 Jul 25 (Fri)	06:34 67	13:01 77N	19:25 290
2025 Jul 26 (Sat)	07:30 72	13:52 82N	20:12 285
2025 Jul 27 (Sun)	08:20 78	14:38 88N	20:54 279
2025 Jul 28 (Mon)	09:08 84	15:21 87S	21:33 273
2025 Jul 29 (Tue)	09:53 90	16:02 81S	22:10 267
2025 Jul 30 (Wed)	10:36 96	16:43 75S	22:47 261
2025 Jul 31 (Thu)	11:20 102	17:23 69S	23:25 255
2025 Aug 01 (Fri)	12:05 107	18:06 64S	
2025 Aug 02 (Sat)	12:52 112	18:50 60S	00:05 251
2025 Aug 03 (Sun)	13:42 115	19:38 57S	00:48 246
2025 Aug 04 (Mon)	14:34 118	20:29 55S	01:34 243
2025 Aug 05 (Tue)	15:27 119	21:23 54S	02:25 242
2025 Aug 06 (Wed)	16:22 118	22:18 55S	03:18 241
2025 Aug 07 (Thu)	17:15 116	23:12 57S	04:14 242
2025 Aug 08 (Fri)	18:06 113		05:10 245
2025 Aug 09 (Sat)	18:54 108	00:05 61S	06:06 250
2025 Aug 10 (Sun)	19:40 102	00:56 66S	06:59 255
2025 Aug 11 (Mon)	20:24 95	01:45 73S	07:51 262
2025 Aug 12 (Tue)	21:07 88	02:32 80S	08:42 268
2025 Aug 13 (Wed)	21:51 81	03:19 87S	09:34 275
2025 Aug 14 (Thu)	22:37 75	04:08 88N	10:26 282
2025 Aug 15 (Fri)	23:27 69	04:58 81N	11:22 288
2025 Aug 16 (Sat)		05:53 76N	12:20 293
2025 Aug 17 (Sun)	00:21 65	06:51 72N	13:22 297
2025 Aug 18 (Mon)	01:20 62	07:52 70N	14:24 299
2025 Aug 19 (Tue)	02:22 61	08:54 70N	15:26 298
2025 Aug 20 (Wed)	03:24 62	09:54 71N	16:24 296
2025 Aug 21 (Thu)	04:23 66	10:51 75N	17:17 292
2025 Aug 22 (Fri)	05:19 70	11:43 80N	18:05 287
2025 Aug 23 (Sat)	06:11 75	12:31 85N	18:48 282
2025 Aug 24 (Sun)	07:00 81	13:15 90S	19:28 275
2025 Aug 25 (Mon)	07:46 88	13:57 84S	20:06 269
2025 Aug 26 (Tue)	08:30 94	14:38 77S	20:44 263
2025 Aug 27 (Wed)	09:14 100	15:18 72S	21:21 257
2025 Aug 28 (Thu)	09:59 105	16:00 66S	22:00 252
2025 Aug 29 (Fri)	10:45 110	16:44 62S	22:42 248

2025 Aug 30 (Sat)	11:33 114	17:30 58S	23:27 244
2025 Aug 31 (Sun)	12:24 117	18:20 55S	
2025 Sep 01 (Mon)	13:16 119	19:12 54S	00:15 242
2025 Sep 02 (Tue)	14:10 119	20:06 54S	01:07 241
2025 Sep 03 (Wed)	15:03 117	21:00 56S	02:01 242
2025 Sep 04 (Thu)	15:55 115	21:53 59S	02:57 244
2025 Sep 05 (Fri)	16:45 110	22:45 64S	03:52 247
2025 Sep 06 (Sat)	17:31 105	23:35 70S	04:47 252
2025 Sep 07 (Sun)	18:17 98		05:40 259
2025 Sep 08 (Mon)	19:01 91	00:24 76S	06:33 265
2025 Sep 09 (Tue)	19:46 84	01:12 84S	07:25 273
2025 Sep 10 (Wed)	20:33 77	02:01 90N	08:19 280
2025 Sep 11 (Thu)	21:23 71	02:53 84N	09:15 286
2025 Sep 12 (Fri)	22:16 66	03:47 78N	10:14 292
2025 Sep 13 (Sat)	23:15 62	04:45 73N	11:15 296
2025 Sep 14 (Sun)		05:46 70N	12:18 298
2025 Sep 15 (Mon)	00:16 61	06:48 69N	13:21 299
2025 Sep 16 (Tue)	01:17 62	07:49 71N	14:19 297
2025 Sep 17 (Wed)	02:17 64	08:46 74N	15:13 294
2025 Sep 18 (Thu)	03:13 68	09:38 78N	16:01 289
2025 Sep 19 (Fri)	04:06 73	10:26 83N	16:45 284
2025 Sep 20 (Sat)	04:55 79	11:11 89N	17:26 278
2025 Sep 21 (Sun)	05:41 85	11:53 86S	18:04 272
2025 Sep 22 (Mon)	06:25 91	12:34 80S	18:41 266
2025 Sep 23 (Tue)	07:09 97	13:15 74S	19:19 260
2025 Sep 24 (Wed)	07:53 103	13:56 68S	19:57 254
2025 Sep 25 (Thu)	08:39 108	14:39 63S	20:38 250
2025 Sep 26 (Fri)	09:26 113	15:24 59S	21:21 246
2025 Sep 27 (Sat)	10:16 116	16:12 56S	22:08 243
2025 Sep 28 (Sun)	11:08 118	17:03 54S	22:58 241
2025 Sep 29 (Mon)	12:00 119	17:55 54S	23:51 241
2025 Sep 30 (Tue)	12:53 118	18:48 55S	
2025 Oct 01 (Wed)	13:44 116	19:41 57S	00:45 243
2025 Oct 02 (Thu)	14:33 112	20:32 61S	01:39 246
2025 Oct 03 (Fri)	15:21 107	21:22 67S	02:33 250
2025 Oct 04 (Sat)	16:06 101	22:11 73S	03:26 255
2025 Oct 05 (Sun)	16:50 95	22:59 80S	04:18 262
2025 Oct 06 (Mon)	17:35 87	23:49 87S	05:10 269
2025 Oct 07 (Tue)	18:22 80		06:04 276
2025 Oct 08 (Wed)	19:12 73	00:40 87N	07:00 283
2025 Oct 09 (Thu)	20:06 68	01:35 80N	08:00 290
2025 Oct 10 (Fri)	21:05 64	02:34 75N	09:03 295
2025 Oct 11 (Sat)	22:07 61	03:36 71N	10:08 298
2025 Oct 12 (Sun)	23:10 61	04:40 70N	11:13 299
2025 Oct 13 (Mon)		05:42 70N	12:14 298
2025 Oct 14 (Tue)	00:12 63	06:41 73N	13:10 295
2025 Oct 15 (Wed)	01:10 67	07:36 77N	14:00 291
2025 Oct 16 (Thu)	02:03 72	08:25 82N	14:45 285
2025 Oct 17 (Fri)	02:52 77	09:10 87N	15:26 280
2025 Oct 18 (Sat)	03:38 83	09:52 88S	16:04 274
2025 Oct 19 (Sun)	04:23 89	10:33 82S	16:41 268
2025 Oct 20 (Mon)	05:06 95	11:13 76S	17:18 262
2025 Oct 21 (Tue)	05:50 101	11:54 70S	17:56 256
2025 Oct 22 (Wed)	06:35 106	12:36 65S	18:36 251
2025 Oct 23 (Thu)	07:22 111	13:21 61S	19:18 247
2025 Oct 24 (Fri)	08:11 115	14:08 57S	20:04 244
2025 Oct 25 (Sat)	09:02 117	14:57 55S	20:52 242
2025 Oct 26 (Sun)	09:54 119	15:49 54S	21:44 241
2025 Oct 27 (Mon)	10:46 118	16:41 54S	22:36 242
2025 Oct 28 (Tue)	11:36 117	17:33 56S	23:30 244
2025 Oct 29 (Wed)	12:25 114	18:23 60S	
2025 Oct 30 (Thu)	13:12 110	19:12 64S	00:22 248
2025 Oct 31 (Fri)	13:56 104	20:00 70S	01:14 253
2025 Nov 01 (Sat)	14:40 98	20:47 77S	02:04 259
2025 Nov 02 (Sun)	15:23 91	21:34 84S	02:55 265
2025 Nov 03 (Mon)	16:08 84	22:24 91N	03:47 273
2025 Nov 04 (Tue)	16:56 77	23:17 84N	04:41 280
2025 Nov 05 (Wed)	17:49 71		05:39 287
2025 Nov 06 (Thu)	18:47 65	00:14 77N	06:42 292
2025 Nov 07 (Fri)	19:50 62	01:17 73N	07:48 296
2025 Nov 08 (Sat)	20:55 61	02:22 70N	08:56 298
2025 Nov 09 (Sun)	22:00 63	03:29 70N	10:01 298

2025 Nov 10 (Mon)	23:02 66	04:32 72N	11:02 296
2025 Nov 11 (Tue)	23:58 70	05:29 75N	11:55 292
2025 Nov 12 (Wed)		06:21 80N	12:43 287
2025 Nov 13 (Thu)	00:49 76	07:08 86N	13:25 281
2025 Nov 14 (Fri)	01:37 82	07:52 90S	14:05 275
2025 Nov 15 (Sat)	02:22 88	08:33 84S	14:42 269
2025 Nov 16 (Sun)	03:05 94	09:13 78S	15:19 263
2025 Nov 17 (Mon)	03:48 99	09:53 72S	15:56 258
2025 Nov 18 (Tue)	04:33 105	10:35 67S	16:35 253
2025 Nov 19 (Wed)	05:19 110	11:18 62S	17:16 248
2025 Nov 20 (Thu)	06:07 114	12:04 58S	18:01 245
2025 Nov 21 (Fri)	06:57 117	12:53 56S	18:49 242
2025 Nov 22 (Sat)	07:49 118	13:44 54S	19:40 241
2025 Nov 23 (Sun)	08:41 119	14:36 54S	20:32 242
2025 Nov 24 (Mon)	09:32 117	15:28 56S	21:25 244
2025 Nov 25 (Tue)	10:21 115	16:18 59S	22:17 247
2025 Nov 26 (Wed)	11:08 111	17:07 63S	23:07 251
2025 Nov 27 (Thu)	11:52 106	17:53 68S	23:57 257
2025 Nov 28 (Fri)	12:34 100	18:39 74S	
2025 Nov 29 (Sat)	13:16 94	19:24 81S	00:46 263
2025 Nov 30 (Sun)	13:58 87	20:11 87S	01:35 269
2025 Dec 01 (Mon)	14:43 80	21:00 87N	02:26 276
2025 Dec 02 (Tue)	15:32 74	21:54 81N	03:20 283
2025 Dec 03 (Wed)	16:26 68	22:53 75N	04:19 289
2025 Dec 04 (Thu)	17:26 64	23:58 71N	05:23 294
2025 Dec 05 (Fri)	18:32 62		06:31 298
2025 Dec 06 (Sat)	19:39 62	01:05 70N	07:39 299
2025 Dec 07 (Sun)	20:45 64	02:12 71N	08:44 297
2025 Dec 08 (Mon)	21:46 68	03:15 74N	09:43 294
2025 Dec 09 (Tue)	22:41 74	04:11 78N	10:35 289
2025 Dec 10 (Wed)	23:31 80	05:02 84N	11:21 283
2025 Dec 11 (Thu)		05:48 90N	12:02 277
2025 Dec 12 (Fri)	00:18 86	06:31 86S	12:41 271
2025 Dec 13 (Sat)	01:03 92	07:11 79S	13:18 265
2025 Dec 14 (Sun)	01:46 98	07:52 74S	13:56 259
2025 Dec 15 (Mon)	02:30 103	08:33 68S	14:34 254
2025 Dec 16 (Tue)	03:16 108	09:16 63S	15:15 250
2025 Dec 17 (Wed)	04:03 113	10:01 59S	15:58 246
2025 Dec 18 (Thu)	04:53 116	10:49 56S	16:45 243
2025 Dec 19 (Fri)	05:44 118	11:40 55S	17:35 242
2025 Dec 20 (Sat)	06:37 119	12:32 54S	18:27 242
2025 Dec 21 (Sun)	07:29 118	13:24 55S	19:21 243
2025 Dec 22 (Mon)	08:19 116	14:16 58S	20:13 246
2025 Dec 23 (Tue)	09:06 112	15:05 62S	21:04 250
2025 Dec 24 (Wed)	09:50 107	15:52 67S	21:54 255
2025 Dec 25 (Thu)	10:33 102	16:37 72S	22:42 261
2025 Dec 26 (Fri)	11:14 96	17:21 79S	23:30 267
2025 Dec 27 (Sat)	11:54 89	18:06 85S	
2025 Dec 28 (Sun)	12:37 83	18:52 90N	00:19 274
2025 Dec 29 (Mon)	13:22 76	19:42 83N	01:09 281
2025 Dec 30 (Tue)	14:11 70	20:36 77N	02:04 287
2025 Dec 31 (Wed)	15:07 66	21:36 73N	03:03 292