

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
2024	Jan	01 (Mon)	05:51	06:40	113	12:30 60S	18:21 247		19:09
2024	Jan	02 (Tue)	05:51	06:40	113	12:30 60S	18:21 247		19:10
2024	Jan	03 (Wed)	05:52	06:40	113	12:31 60S	18:22 247		19:10
2024	Jan	04 (Thu)	05:52	06:41	113	12:31 60S	18:22 247		19:11
2024	Jan	05 (Fri)	05:52	06:41	113	12:32 60S	18:23 247		19:11
2024	Jan	06 (Sat)	05:53	06:42	113	12:32 60S	18:23 247		19:12
2024	Jan	07 (Sun)	05:53	06:42	113	12:33 61S	18:24 248		19:12
2024	Jan	08 (Mon)	05:54	06:42	112	12:33 61S	18:24 248		19:13
2024	Jan	09 (Tue)	05:54	06:43	112	12:34 61S	18:25 248		19:13
2024	Jan	10 (Wed)	05:54	06:43	112	12:34 61S	18:25 248		19:14
2024	Jan	11 (Thu)	05:55	06:43	112	12:34 61S	18:26 248		19:14
2024	Jan	12 (Fri)	05:55	06:44	112	12:35 61S	18:26 248		19:14
2024	Jan	13 (Sat)	05:56	06:44	112	12:35 61S	18:27 248		19:15
2024	Jan	14 (Sun)	05:56	06:44	112	12:36 62S	18:27 249		19:15
2024	Jan	15 (Mon)	05:56	06:44	111	12:36 62S	18:28 249		19:16
2024	Jan	16 (Tue)	05:56	06:45	111	12:36 62S	18:28 249		19:16
2024	Jan	17 (Wed)	05:57	06:45	111	12:37 62S	18:28 249		19:17
2024	Jan	18 (Thu)	05:57	06:45	111	12:37 62S	18:29 249		19:17
2024	Jan	19 (Fri)	05:57	06:45	111	12:37 63S	18:29 250		19:17
2024	Jan	20 (Sat)	05:58	06:45	110	12:38 63S	18:30 250		19:18
2024	Jan	21 (Sun)	05:58	06:46	110	12:38 63S	18:30 250		19:18
2024	Jan	22 (Mon)	05:58	06:46	110	12:38 63S	18:31 250		19:18
2024	Jan	23 (Tue)	05:58	06:46	110	12:38 63S	18:31 250		19:19
2024	Jan	24 (Wed)	05:58	06:46	109	12:39 64S	18:31 251		19:19
2024	Jan	25 (Thu)	05:59	06:46	109	12:39 64S	18:32 251		19:19
2024	Jan	26 (Fri)	05:59	06:46	109	12:39 64S	18:32 251		19:20
2024	Jan	27 (Sat)	05:59	06:46	109	12:39 64S	18:33 251		19:20
2024	Jan	28 (Sun)	05:59	06:46	108	12:40 65S	18:33 252		19:20
2024	Jan	29 (Mon)	05:59	06:46	108	12:40 65S	18:33 252		19:20
2024	Jan	30 (Tue)	05:59	06:46	108	12:40 65S	18:34 252		19:21
2024	Jan	31 (Wed)	05:59	06:46	108	12:40 65S	18:34 253		19:21
2024	Feb	01 (Thu)	05:59	06:46	107	12:40 66S	18:34 253		19:21
2024	Feb	02 (Fri)	05:59	06:46	107	12:40 66S	18:34 253		19:21
2024	Feb	03 (Sat)	05:59	06:46	107	12:41 66S	18:35 253		19:22
2024	Feb	04 (Sun)	05:59	06:46	106	12:41 67S	18:35 254		19:22
2024	Feb	05 (Mon)	05:59	06:46	106	12:41 67S	18:35 254		19:22
2024	Feb	06 (Tue)	05:59	06:46	106	12:41 67S	18:36 254		19:22
2024	Feb	07 (Wed)	05:59	06:46	106	12:41 67S	18:36 255		19:22
2024	Feb	08 (Thu)	05:59	06:46	105	12:41 68S	18:36 255		19:23
2024	Feb	09 (Fri)	05:59	06:46	105	12:41 68S	18:36 255		19:23
2024	Feb	10 (Sat)	05:59	06:46	105	12:41 68S	18:36 256		19:23
2024	Feb	11 (Sun)	05:59	06:45	104	12:41 69S	18:37 256		19:23
2024	Feb	12 (Mon)	05:59	06:45	104	12:41 69S	18:37 256		19:23
2024	Feb	13 (Tue)	05:59	06:45	104	12:41 69S	18:37 257		19:23
2024	Feb	14 (Wed)	05:59	06:45	103	12:41 70S	18:37 257		19:23
2024	Feb	15 (Thu)	05:59	06:45	103	12:41 70S	18:37 257		19:23
2024	Feb	16 (Fri)	05:58	06:44	103	12:41 70S	18:37 258		19:23
2024	Feb	17 (Sat)	05:58	06:44	102	12:41 71S	18:38 258		19:24
2024	Feb	18 (Sun)	05:58	06:44	102	12:41 71S	18:38 258		19:24
2024	Feb	19 (Mon)	05:58	06:44	102	12:41 72S	18:38 259		19:24
2024	Feb	20 (Tue)	05:58	06:43	101	12:41 72S	18:38 259		19:24
2024	Feb	21 (Wed)	05:57	06:43	101	12:40 72S	18:38 259		19:24
2024	Feb	22 (Thu)	05:57	06:43	100	12:40 73S	18:38 260		19:24
2024	Feb	23 (Fri)	05:57	06:42	100	12:40 73S	18:38 260		19:24
2024	Feb	24 (Sat)	05:56	06:42	100	12:40 73S	18:38 260		19:24
2024	Feb	25 (Sun)	05:56	06:42	99	12:40 74S	18:38 261		19:24
2024	Feb	26 (Mon)	05:56	06:41	99	12:40 74S	18:38 261		19:24
2024	Feb	27 (Tue)	05:55	06:41	99	12:40 74S	18:38 262		19:24
2024	Feb	28 (Wed)	05:55	06:41	98	12:39 75S	18:38 262		19:24
2024	Feb	29 (Thu)	05:55	06:40	98	12:39 75S	18:38 262		19:24

2024	Mar	01	(Fri)	05:54	06:40	97	12:39	76S	18:38	263	19:24
2024	Mar	02	(Sat)	05:54	06:39	97	12:39	76S	18:38	263	19:24
2024	Mar	03	(Sun)	05:54	06:39	97	12:39	76S	18:38	264	19:24
2024	Mar	04	(Mon)	05:53	06:39	96	12:38	77S	18:38	264	19:24
2024	Mar	05	(Tue)	05:53	06:38	96	12:38	77S	18:38	264	19:24
2024	Mar	06	(Wed)	05:52	06:38	96	12:38	77S	18:38	265	19:24
2024	Mar	07	(Thu)	05:52	06:37	95	12:38	78S	18:38	265	19:24
2024	Mar	08	(Fri)	05:52	06:37	95	12:37	78S	18:38	265	19:23
2024	Mar	09	(Sat)	05:51	06:36	94	12:37	79S	18:38	266	19:23
2024	Mar	10	(Sun)	05:51	06:36	94	12:37	79S	18:38	266	19:23
2024	Mar	11	(Mon)	05:50	06:35	94	12:37	79S	18:38	267	19:23
2024	Mar	12	(Tue)	05:50	06:35	93	12:36	80S	18:38	267	19:23
2024	Mar	13	(Wed)	05:49	06:34	93	12:36	80S	18:38	267	19:23
2024	Mar	14	(Thu)	05:49	06:34	92	12:36	81S	18:38	268	19:23
2024	Mar	15	(Fri)	05:48	06:33	92	12:36	81S	18:38	268	19:23
2024	Mar	16	(Sat)	05:48	06:33	92	12:35	81S	18:38	269	19:23
2024	Mar	17	(Sun)	05:47	06:32	91	12:35	82S	18:38	269	19:23
2024	Mar	18	(Mon)	05:47	06:32	91	12:35	82S	18:38	269	19:23
2024	Mar	19	(Tue)	05:46	06:31	90	12:34	83S	18:38	270	19:23
2024	Mar	20	(Wed)	05:46	06:31	90	12:34	83S	18:38	270	19:23
2024	Mar	21	(Thu)	05:45	06:30	90	12:34	83S	18:37	271	19:23
2024	Mar	22	(Fri)	05:45	06:30	89	12:34	84S	18:37	271	19:22
2024	Mar	23	(Sat)	05:44	06:29	89	12:33	84S	18:37	271	19:22
2024	Mar	24	(Sun)	05:44	06:29	88	12:33	85S	18:37	272	19:22
2024	Mar	25	(Mon)	05:43	06:28	88	12:33	85S	18:37	272	19:22
2024	Mar	26	(Tue)	05:43	06:28	88	12:32	85S	18:37	273	19:22
2024	Mar	27	(Wed)	05:42	06:27	87	12:32	86S	18:37	273	19:22
2024	Mar	28	(Thu)	05:42	06:27	87	12:32	86S	18:37	273	19:22
2024	Mar	29	(Fri)	05:41	06:26	86	12:31	87S	18:37	274	19:22
2024	Mar	30	(Sat)	05:41	06:26	86	12:31	87S	18:37	274	19:22
2024	Mar	31	(Sun)	05:40	06:25	86	12:31	87S	18:37	275	19:22
2024	Apr	01	(Mon)	05:39	06:25	85	12:31	88S	18:37	275	19:22
2024	Apr	02	(Tue)	05:39	06:24	85	12:30	88S	18:36	275	19:22
2024	Apr	03	(Wed)	05:38	06:24	84	12:30	88S	18:36	276	19:22
2024	Apr	04	(Thu)	05:38	06:23	84	12:30	89S	18:36	276	19:22
2024	Apr	05	(Fri)	05:37	06:23	84	12:29	89S	18:36	277	19:22
2024	Apr	06	(Sat)	05:37	06:22	83	12:29	90S	18:36	277	19:22
2024	Apr	07	(Sun)	05:36	06:22	83	12:29	90S	18:36	277	19:22
2024	Apr	08	(Mon)	05:36	06:21	83	12:29	90S	18:36	278	19:22
2024	Apr	09	(Tue)	05:35	06:21	82	12:28	91N	18:36	278	19:22
2024	Apr	10	(Wed)	05:35	06:20	82	12:28	90N	18:36	278	19:22
2024	Apr	11	(Thu)	05:34	06:20	81	12:28	90N	18:36	279	19:22
2024	Apr	12	(Fri)	05:34	06:19	81	12:28	90N	18:36	279	19:22
2024	Apr	13	(Sat)	05:33	06:19	81	12:27	89N	18:36	280	19:22
2024	Apr	14	(Sun)	05:33	06:18	80	12:27	89N	18:36	280	19:22
2024	Apr	15	(Mon)	05:32	06:18	80	12:27	89N	18:36	280	19:22
2024	Apr	16	(Tue)	05:32	06:18	80	12:27	88N	18:36	281	19:22
2024	Apr	17	(Wed)	05:31	06:17	79	12:26	88N	18:36	281	19:22
2024	Apr	18	(Thu)	05:31	06:17	79	12:26	87N	18:36	281	19:22
2024	Apr	19	(Fri)	05:30	06:16	79	12:26	87N	18:36	282	19:22
2024	Apr	20	(Sat)	05:30	06:16	78	12:26	87N	18:36	282	19:22
2024	Apr	21	(Sun)	05:29	06:15	78	12:25	86N	18:36	282	19:22
2024	Apr	22	(Mon)	05:29	06:15	77	12:25	86N	18:36	283	19:22
2024	Apr	23	(Tue)	05:28	06:15	77	12:25	86N	18:36	283	19:22
2024	Apr	24	(Wed)	05:28	06:14	77	12:25	85N	18:36	283	19:22
2024	Apr	25	(Thu)	05:27	06:14	76	12:25	85N	18:36	284	19:22
2024	Apr	26	(Fri)	05:27	06:14	76	12:25	85N	18:36	284	19:22
2024	Apr	27	(Sat)	05:27	06:13	76	12:24	84N	18:36	284	19:22
2024	Apr	28	(Sun)	05:26	06:13	76	12:24	84N	18:36	285	19:22
2024	Apr	29	(Mon)	05:26	06:13	75	12:24	84N	18:36	285	19:23
2024	Apr	30	(Tue)	05:25	06:12	75	12:24	84N	18:36	285	19:23
2024	May	01	(Wed)	05:25	06:12	75	12:24	83N	18:36	286	19:23
2024	May	02	(Thu)	05:25	06:12	74	12:24	83N	18:36	286	19:23
2024	May	03	(Fri)	05:24	06:11	74	12:24	83N	18:36	286	19:23
2024	May	04	(Sat)	05:24	06:11	74	12:24	82N	18:36	286	19:23
2024	May	05	(Sun)	05:24	06:11	73	12:23	82N	18:36	287	19:24
2024	May	06	(Mon)	05:23	06:11	73	12:23	82N	18:36	287	19:24
2024	May	07	(Tue)	05:23	06:10	73	12:23	82N	18:36	287	19:24
2024	May	08	(Wed)	05:23	06:10	73	12:23	81N	18:36	288	19:24
2024	May	09	(Thu)	05:22	06:10	72	12:23	81N	18:37	288	19:24
2024	May	10	(Fri)	05:22	06:10	72	12:23	81N	18:37	288	19:24
2024	May	11	(Sat)	05:22	06:10	72	12:23	80N	18:37	288	19:25

2024	May	12	(Sun)	05:22	06:09	72	12:23	80N	18:37	289	19:25
2024	May	13	(Mon)	05:21	06:09	71	12:23	80N	18:37	289	19:25
2024	May	14	(Tue)	05:21	06:09	71	12:23	80N	18:37	289	19:25
2024	May	15	(Wed)	05:21	06:09	71	12:23	79N	18:37	289	19:26
2024	May	16	(Thu)	05:21	06:09	71	12:23	79N	18:38	290	19:26
2024	May	17	(Fri)	05:20	06:09	70	12:23	79N	18:38	290	19:26
2024	May	18	(Sat)	05:20	06:09	70	12:23	79N	18:38	290	19:26
2024	May	19	(Sun)	05:20	06:08	70	12:23	79N	18:38	290	19:27
2024	May	20	(Mon)	05:20	06:08	70	12:23	78N	18:38	290	19:27
2024	May	21	(Tue)	05:20	06:08	69	12:23	78N	18:39	291	19:27
2024	May	22	(Wed)	05:20	06:08	69	12:24	78N	18:39	291	19:27
2024	May	23	(Thu)	05:20	06:08	69	12:24	78N	18:39	291	19:28
2024	May	24	(Fri)	05:20	06:08	69	12:24	78N	18:39	291	19:28
2024	May	25	(Sat)	05:19	06:08	69	12:24	77N	18:39	291	19:28
2024	May	26	(Sun)	05:19	06:08	69	12:24	77N	18:40	292	19:28
2024	May	27	(Mon)	05:19	06:08	68	12:24	77N	18:40	292	19:29
2024	May	28	(Tue)	05:19	06:08	68	12:24	77N	18:40	292	19:29
2024	May	29	(Wed)	05:19	06:08	68	12:24	77N	18:40	292	19:29
2024	May	30	(Thu)	05:19	06:08	68	12:24	77N	18:41	292	19:30
2024	May	31	(Fri)	05:19	06:08	68	12:25	76N	18:41	292	19:30
2024	Jun	01	(Sat)	05:19	06:08	68	12:25	76N	18:41	292	19:30
2024	Jun	02	(Sun)	05:19	06:08	67	12:25	76N	18:41	293	19:31
2024	Jun	03	(Mon)	05:19	06:09	67	12:25	76N	18:42	293	19:31
2024	Jun	04	(Tue)	05:19	06:09	67	12:25	76N	18:42	293	19:31
2024	Jun	05	(Wed)	05:19	06:09	67	12:25	76N	18:42	293	19:31
2024	Jun	06	(Thu)	05:19	06:09	67	12:26	76N	18:42	293	19:32
2024	Jun	07	(Fri)	05:20	06:09	67	12:26	76N	18:43	293	19:32
2024	Jun	08	(Sat)	05:20	06:09	67	12:26	76N	18:43	293	19:32
2024	Jun	09	(Sun)	05:20	06:09	67	12:26	75N	18:43	293	19:33
2024	Jun	10	(Mon)	05:20	06:09	67	12:26	75N	18:43	293	19:33
2024	Jun	11	(Tue)	05:20	06:10	67	12:27	75N	18:44	293	19:33
2024	Jun	12	(Wed)	05:20	06:10	66	12:27	75N	18:44	294	19:33
2024	Jun	13	(Thu)	05:20	06:10	66	12:27	75N	18:44	294	19:34
2024	Jun	14	(Fri)	05:20	06:10	66	12:27	75N	18:44	294	19:34
2024	Jun	15	(Sat)	05:21	06:10	66	12:27	75N	18:45	294	19:34
2024	Jun	16	(Sun)	05:21	06:10	66	12:28	75N	18:45	294	19:34
2024	Jun	17	(Mon)	05:21	06:11	66	12:28	75N	18:45	294	19:35
2024	Jun	18	(Tue)	05:21	06:11	66	12:28	75N	18:45	294	19:35
2024	Jun	19	(Wed)	05:21	06:11	66	12:28	75N	18:45	294	19:35
2024	Jun	20	(Thu)	05:22	06:11	66	12:28	75N	18:46	294	19:35
2024	Jun	21	(Fri)	05:22	06:11	66	12:29	75N	18:46	294	19:36
2024	Jun	22	(Sat)	05:22	06:12	66	12:29	75N	18:46	294	19:36
2024	Jun	23	(Sun)	05:22	06:12	66	12:29	75N	18:46	294	19:36
2024	Jun	24	(Mon)	05:22	06:12	66	12:29	75N	18:47	294	19:36
2024	Jun	25	(Tue)	05:23	06:12	66	12:30	75N	18:47	294	19:36
2024	Jun	26	(Wed)	05:23	06:13	66	12:30	75N	18:47	294	19:37
2024	Jun	27	(Thu)	05:23	06:13	66	12:30	75N	18:47	294	19:37
2024	Jun	28	(Fri)	05:23	06:13	66	12:30	75N	18:47	294	19:37
2024	Jun	29	(Sat)	05:24	06:13	66	12:30	75N	18:47	294	19:37
2024	Jun	30	(Sun)	05:24	06:14	66	12:31	75N	18:48	293	19:37
2024	Jul	01	(Mon)	05:24	06:14	67	12:31	75N	18:48	293	19:37
2024	Jul	02	(Tue)	05:24	06:14	67	12:31	75N	18:48	293	19:37
2024	Jul	03	(Wed)	05:25	06:14	67	12:31	76N	18:48	293	19:37
2024	Jul	04	(Thu)	05:25	06:14	67	12:31	76N	18:48	293	19:38
2024	Jul	05	(Fri)	05:25	06:15	67	12:31	76N	18:48	293	19:38
2024	Jul	06	(Sat)	05:26	06:15	67	12:32	76N	18:48	293	19:38
2024	Jul	07	(Sun)	05:26	06:15	67	12:32	76N	18:48	293	19:38
2024	Jul	08	(Mon)	05:26	06:15	67	12:32	76N	18:48	293	19:38
2024	Jul	09	(Tue)	05:26	06:16	67	12:32	76N	18:49	293	19:38
2024	Jul	10	(Wed)	05:27	06:16	67	12:32	76N	18:49	292	19:38
2024	Jul	11	(Thu)	05:27	06:16	68	12:32	76N	18:49	292	19:38
2024	Jul	12	(Fri)	05:27	06:16	68	12:33	77N	18:49	292	19:38
2024	Jul	13	(Sat)	05:27	06:17	68	12:33	77N	18:49	292	19:38
2024	Jul	14	(Sun)	05:28	06:17	68	12:33	77N	18:49	292	19:38
2024	Jul	15	(Mon)	05:28	06:17	68	12:33	77N	18:49	292	19:38
2024	Jul	16	(Tue)	05:28	06:17	68	12:33	77N	18:49	292	19:38
2024	Jul	17	(Wed)	05:29	06:17	69	12:33	77N	18:49	291	19:37
2024	Jul	18	(Thu)	05:29	06:18	69	12:33	78N	18:49	291	19:37
2024	Jul	19	(Fri)	05:29	06:18	69	12:33	78N	18:49	291	19:37
2024	Jul	20	(Sat)	05:29	06:18	69	12:33	78N	18:48	291	19:37
2024	Jul	21	(Sun)	05:30	06:18	69	12:33	78N	18:48	291	19:37
2024	Jul	22	(Mon)	05:30	06:18	69	12:33	78N	18:48	290	19:37

2024	Jul	23	(Tue)	05:30	06:18	70	12:33	78N	18:48	290	19:37
2024	Jul	24	(Wed)	05:30	06:19	70	12:33	79N	18:48	290	19:36
2024	Jul	25	(Thu)	05:30	06:19	70	12:33	79N	18:48	290	19:36
2024	Jul	26	(Fri)	05:31	06:19	70	12:33	79N	18:48	290	19:36
2024	Jul	27	(Sat)	05:31	06:19	71	12:33	79N	18:48	289	19:36
2024	Jul	28	(Sun)	05:31	06:19	71	12:33	80N	18:47	289	19:35
2024	Jul	29	(Mon)	05:31	06:19	71	12:33	80N	18:47	289	19:35
2024	Jul	30	(Tue)	05:31	06:19	71	12:33	80N	18:47	289	19:35
2024	Jul	31	(Wed)	05:32	06:19	72	12:33	80N	18:47	288	19:35
2024	Aug	01	(Thu)	05:32	06:20	72	12:33	81N	18:47	288	19:34
2024	Aug	02	(Fri)	05:32	06:20	72	12:33	81N	18:46	288	19:34
2024	Aug	03	(Sat)	05:32	06:20	72	12:33	81N	18:46	288	19:34
2024	Aug	04	(Sun)	05:32	06:20	73	12:33	81N	18:46	287	19:33
2024	Aug	05	(Mon)	05:32	06:20	73	12:33	82N	18:46	287	19:33
2024	Aug	06	(Tue)	05:33	06:20	73	12:33	82N	18:45	287	19:33
2024	Aug	07	(Wed)	05:33	06:20	73	12:33	82N	18:45	286	19:32
2024	Aug	08	(Thu)	05:33	06:20	74	12:32	82N	18:45	286	19:32
2024	Aug	09	(Fri)	05:33	06:20	74	12:32	83N	18:44	286	19:32
2024	Aug	10	(Sat)	05:33	06:20	74	12:32	83N	18:44	286	19:31
2024	Aug	11	(Sun)	05:33	06:20	75	12:32	83N	18:44	285	19:31
2024	Aug	12	(Mon)	05:33	06:20	75	12:32	84N	18:43	285	19:30
2024	Aug	13	(Tue)	05:33	06:20	75	12:32	84N	18:43	285	19:30
2024	Aug	14	(Wed)	05:33	06:20	75	12:31	84N	18:43	284	19:29
2024	Aug	15	(Thu)	05:33	06:20	76	12:31	85N	18:42	284	19:29
2024	Aug	16	(Fri)	05:33	06:20	76	12:31	85N	18:42	284	19:29
2024	Aug	17	(Sat)	05:33	06:20	76	12:31	85N	18:42	283	19:28
2024	Aug	18	(Sun)	05:34	06:20	77	12:31	86N	18:41	283	19:28
2024	Aug	19	(Mon)	05:34	06:20	77	12:30	86N	18:41	283	19:27
2024	Aug	20	(Tue)	05:34	06:20	77	12:30	86N	18:40	282	19:27
2024	Aug	21	(Wed)	05:34	06:20	78	12:30	87N	18:40	282	19:26
2024	Aug	22	(Thu)	05:34	06:20	78	12:30	87N	18:39	282	19:26
2024	Aug	23	(Fri)	05:34	06:20	78	12:29	87N	18:39	281	19:25
2024	Aug	24	(Sat)	05:34	06:20	79	12:29	88N	18:38	281	19:24
2024	Aug	25	(Sun)	05:34	06:20	79	12:29	88N	18:38	281	19:24
2024	Aug	26	(Mon)	05:34	06:20	79	12:29	88N	18:37	280	19:23
2024	Aug	27	(Tue)	05:34	06:19	80	12:28	89N	18:37	280	19:23
2024	Aug	28	(Wed)	05:33	06:19	80	12:28	89N	18:36	280	19:22
2024	Aug	29	(Thu)	05:33	06:19	81	12:28	89N	18:36	279	19:22
2024	Aug	30	(Fri)	05:33	06:19	81	12:27	90N	18:35	279	19:21
2024	Aug	31	(Sat)	05:33	06:19	81	12:27	90N	18:35	279	19:21
2024	Sep	01	(Sun)	05:33	06:19	82	12:27	90N	18:34	278	19:20
2024	Sep	02	(Mon)	05:33	06:19	82	12:26	91S	18:34	278	19:19
2024	Sep	03	(Tue)	05:33	06:19	82	12:26	90S	18:33	277	19:19
2024	Sep	04	(Wed)	05:33	06:19	83	12:26	90S	18:33	277	19:18
2024	Sep	05	(Thu)	05:33	06:18	83	12:25	90S	18:32	277	19:18
2024	Sep	06	(Fri)	05:33	06:18	83	12:25	89S	18:32	276	19:17
2024	Sep	07	(Sat)	05:33	06:18	84	12:25	89S	18:31	276	19:17
2024	Sep	08	(Sun)	05:33	06:18	84	12:24	88S	18:31	276	19:16
2024	Sep	09	(Mon)	05:33	06:18	85	12:24	88S	18:30	275	19:15
2024	Sep	10	(Tue)	05:32	06:18	85	12:24	88S	18:30	275	19:15
2024	Sep	11	(Wed)	05:32	06:18	85	12:23	87S	18:29	274	19:14
2024	Sep	12	(Thu)	05:32	06:18	86	12:23	87S	18:28	274	19:14
2024	Sep	13	(Fri)	05:32	06:17	86	12:23	87S	18:28	274	19:13
2024	Sep	14	(Sat)	05:32	06:17	87	12:22	86S	18:27	273	19:12
2024	Sep	15	(Sun)	05:32	06:17	87	12:22	86S	18:27	273	19:12
2024	Sep	16	(Mon)	05:32	06:17	87	12:22	85S	18:26	272	19:11
2024	Sep	17	(Tue)	05:32	06:17	88	12:21	85S	18:26	272	19:11
2024	Sep	18	(Wed)	05:32	06:17	88	12:21	85S	18:25	272	19:10
2024	Sep	19	(Thu)	05:31	06:16	88	12:20	84S	18:24	271	19:10
2024	Sep	20	(Fri)	05:31	06:16	89	12:20	84S	18:24	271	19:09
2024	Sep	21	(Sat)	05:31	06:16	89	12:20	83S	18:23	271	19:08
2024	Sep	22	(Sun)	05:31	06:16	90	12:19	83S	18:23	270	19:08
2024	Sep	23	(Mon)	05:31	06:16	90	12:19	83S	18:22	270	19:07
2024	Sep	24	(Tue)	05:31	06:16	90	12:19	82S	18:22	269	19:07
2024	Sep	25	(Wed)	05:31	06:16	91	12:18	82S	18:21	269	19:06
2024	Sep	26	(Thu)	05:30	06:16	91	12:18	82S	18:20	269	19:06
2024	Sep	27	(Fri)	05:30	06:15	92	12:18	81S	18:20	268	19:05
2024	Sep	28	(Sat)	05:30	06:15	92	12:17	81S	18:19	268	19:04
2024	Sep	29	(Sun)	05:30	06:15	92	12:17	80S	18:19	267	19:04
2024	Sep	30	(Mon)	05:30	06:15	93	12:17	80S	18:18	267	19:03
2024	Oct	01	(Tue)	05:30	06:15	93	12:16	80S	18:18	267	19:03
2024	Oct	02	(Wed)	05:30	06:15	94	12:16	79S	18:17	266	19:02

2024	Oct	03	(Thu)	05:30	06:15	94	12:16	79S	18:17	266	19:02
2024	Oct	04	(Fri)	05:29	06:15	94	12:15	78S	18:16	265	19:01
2024	Oct	05	(Sat)	05:29	06:14	95	12:15	78S	18:16	265	19:01
2024	Oct	06	(Sun)	05:29	06:14	95	12:15	78S	18:15	265	19:00
2024	Oct	07	(Mon)	05:29	06:14	96	12:15	77S	18:15	264	19:00
2024	Oct	08	(Tue)	05:29	06:14	96	12:14	77S	18:14	264	18:59
2024	Oct	09	(Wed)	05:29	06:14	96	12:14	77S	18:14	264	18:59
2024	Oct	10	(Thu)	05:29	06:14	97	12:14	76S	18:13	263	18:59
2024	Oct	11	(Fri)	05:29	06:14	97	12:13	76S	18:13	263	18:58
2024	Oct	12	(Sat)	05:29	06:14	97	12:13	75S	18:12	262	18:58
2024	Oct	13	(Sun)	05:29	06:14	98	12:13	75S	18:12	262	18:57
2024	Oct	14	(Mon)	05:28	06:14	98	12:13	75S	18:11	262	18:57
2024	Oct	15	(Tue)	05:28	06:14	99	12:13	74S	18:11	261	18:57
2024	Oct	16	(Wed)	05:28	06:14	99	12:12	74S	18:11	261	18:56
2024	Oct	17	(Thu)	05:28	06:14	99	12:12	74S	18:10	261	18:56
2024	Oct	18	(Fri)	05:28	06:14	100	12:12	73S	18:10	260	18:55
2024	Oct	19	(Sat)	05:28	06:14	100	12:12	73S	18:09	260	18:55
2024	Oct	20	(Sun)	05:28	06:14	100	12:12	72S	18:09	259	18:55
2024	Oct	21	(Mon)	05:28	06:14	101	12:11	72S	18:09	259	18:55
2024	Oct	22	(Tue)	05:28	06:14	101	12:11	72S	18:08	259	18:54
2024	Oct	23	(Wed)	05:28	06:14	101	12:11	71S	18:08	258	18:54
2024	Oct	24	(Thu)	05:28	06:14	102	12:11	71S	18:08	258	18:54
2024	Oct	25	(Fri)	05:28	06:14	102	12:11	71S	18:07	258	18:53
2024	Oct	26	(Sat)	05:28	06:14	103	12:11	70S	18:07	257	18:53
2024	Oct	27	(Sun)	05:28	06:14	103	12:11	70S	18:07	257	18:53
2024	Oct	28	(Mon)	05:28	06:14	103	12:11	70S	18:07	257	18:53
2024	Oct	29	(Tue)	05:28	06:15	104	12:10	69S	18:06	256	18:53
2024	Oct	30	(Wed)	05:28	06:15	104	12:10	69S	18:06	256	18:52
2024	Oct	31	(Thu)	05:28	06:15	104	12:10	69S	18:06	256	18:52
2024	Nov	01	(Fri)	05:29	06:15	105	12:10	68S	18:06	255	18:52
2024	Nov	02	(Sat)	05:29	06:15	105	12:10	68S	18:05	255	18:52
2024	Nov	03	(Sun)	05:29	06:15	105	12:10	68S	18:05	255	18:52
2024	Nov	04	(Mon)	05:29	06:15	105	12:10	67S	18:05	254	18:52
2024	Nov	05	(Tue)	05:29	06:16	106	12:10	67S	18:05	254	18:52
2024	Nov	06	(Wed)	05:29	06:16	106	12:10	67S	18:05	254	18:52
2024	Nov	07	(Thu)	05:29	06:16	106	12:10	67S	18:05	253	18:52
2024	Nov	08	(Fri)	05:29	06:16	107	12:11	66S	18:05	253	18:52
2024	Nov	09	(Sat)	05:30	06:17	107	12:11	66S	18:05	253	18:52
2024	Nov	10	(Sun)	05:30	06:17	107	12:11	66S	18:05	253	18:52
2024	Nov	11	(Mon)	05:30	06:17	108	12:11	65S	18:04	252	18:52
2024	Nov	12	(Tue)	05:30	06:17	108	12:11	65S	18:04	252	18:52
2024	Nov	13	(Wed)	05:30	06:18	108	12:11	65S	18:04	252	18:52
2024	Nov	14	(Thu)	05:31	06:18	108	12:11	65S	18:04	252	18:52
2024	Nov	15	(Fri)	05:31	06:18	109	12:11	64S	18:04	251	18:52
2024	Nov	16	(Sat)	05:31	06:19	109	12:12	64S	18:05	251	18:52
2024	Nov	17	(Sun)	05:31	06:19	109	12:12	64S	18:05	251	18:52
2024	Nov	18	(Mon)	05:32	06:19	109	12:12	64S	18:05	251	18:52
2024	Nov	19	(Tue)	05:32	06:20	110	12:12	63S	18:05	250	18:52
2024	Nov	20	(Wed)	05:32	06:20	110	12:12	63S	18:05	250	18:53
2024	Nov	21	(Thu)	05:33	06:20	110	12:13	63S	18:05	250	18:53
2024	Nov	22	(Fri)	05:33	06:21	110	12:13	63S	18:05	250	18:53
2024	Nov	23	(Sat)	05:33	06:21	110	12:13	63S	18:05	249	18:53
2024	Nov	24	(Sun)	05:34	06:22	111	12:14	62S	18:05	249	18:53
2024	Nov	25	(Mon)	05:34	06:22	111	12:14	62S	18:06	249	18:54
2024	Nov	26	(Tue)	05:34	06:22	111	12:14	62S	18:06	249	18:54
2024	Nov	27	(Wed)	05:35	06:23	111	12:14	62S	18:06	249	18:54
2024	Nov	28	(Thu)	05:35	06:23	111	12:15	62S	18:06	248	18:55
2024	Nov	29	(Fri)	05:35	06:24	112	12:15	61S	18:07	248	18:55
2024	Nov	30	(Sat)	05:36	06:24	112	12:16	61S	18:07	248	18:55
2024	Dec	01	(Sun)	05:36	06:25	112	12:16	61S	18:07	248	18:55
2024	Dec	02	(Mon)	05:37	06:25	112	12:16	61S	18:07	248	18:56
2024	Dec	03	(Tue)	05:37	06:26	112	12:17	61S	18:08	248	18:56
2024	Dec	04	(Wed)	05:38	06:26	112	12:17	61S	18:08	248	18:57
2024	Dec	05	(Thu)	05:38	06:27	112	12:17	61S	18:08	247	18:57
2024	Dec	06	(Fri)	05:38	06:27	113	12:18	60S	18:09	247	18:57
2024	Dec	07	(Sat)	05:39	06:28	113	12:18	60S	18:09	247	18:58
2024	Dec	08	(Sun)	05:39	06:28	113	12:19	60S	18:09	247	18:58
2024	Dec	09	(Mon)	05:40	06:29	113	12:19	60S	18:10	247	18:59
2024	Dec	10	(Tue)	05:40	06:29	113	12:20	60S	18:10	247	18:59
2024	Dec	11	(Wed)	05:41	06:30	113	12:20	60S	18:11	247	18:59
2024	Dec	12	(Thu)	05:41	06:30	113	12:21	60S	18:11	247	19:00
2024	Dec	13	(Fri)	05:42	06:31	113	12:21	60S	18:11	247	19:00

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

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

2024	Apr	23	(Tue)	05:53	06:15	77	12:25	86N	18:36	283	18:57
2024	Apr	24	(Wed)	05:53	06:14	77	12:25	85N	18:36	283	18:57
2024	Apr	25	(Thu)	05:52	06:14	76	12:25	85N	18:36	284	18:57
2024	Apr	26	(Fri)	05:52	06:14	76	12:25	85N	18:36	284	18:57
2024	Apr	27	(Sat)	05:52	06:13	76	12:24	84N	18:36	284	18:57
2024	Apr	28	(Sun)	05:51	06:13	76	12:24	84N	18:36	285	18:57
2024	Apr	29	(Mon)	05:51	06:13	75	12:24	84N	18:36	285	18:57
2024	Apr	30	(Tue)	05:51	06:12	75	12:24	84N	18:36	285	18:57
2024	May	01	(Wed)	05:50	06:12	75	12:24	83N	18:36	286	18:58
2024	May	02	(Thu)	05:50	06:12	74	12:24	83N	18:36	286	18:58
2024	May	03	(Fri)	05:50	06:11	74	12:24	83N	18:36	286	18:58
2024	May	04	(Sat)	05:49	06:11	74	12:24	82N	18:36	286	18:58
2024	May	05	(Sun)	05:49	06:11	73	12:23	82N	18:36	287	18:58
2024	May	06	(Mon)	05:49	06:11	73	12:23	82N	18:36	287	18:58
2024	May	07	(Tue)	05:49	06:10	73	12:23	82N	18:36	287	18:58
2024	May	08	(Wed)	05:48	06:10	73	12:23	81N	18:36	288	18:58
2024	May	09	(Thu)	05:48	06:10	72	12:23	81N	18:37	288	18:59
2024	May	10	(Fri)	05:48	06:10	72	12:23	81N	18:37	288	18:59
2024	May	11	(Sat)	05:48	06:10	72	12:23	80N	18:37	288	18:59
2024	May	12	(Sun)	05:47	06:09	72	12:23	80N	18:37	289	18:59
2024	May	13	(Mon)	05:47	06:09	71	12:23	80N	18:37	289	18:59
2024	May	14	(Tue)	05:47	06:09	71	12:23	80N	18:37	289	18:59
2024	May	15	(Wed)	05:47	06:09	71	12:23	79N	18:37	289	19:00
2024	May	16	(Thu)	05:47	06:09	71	12:23	79N	18:38	290	19:00
2024	May	17	(Fri)	05:46	06:09	70	12:23	79N	18:38	290	19:00
2024	May	18	(Sat)	05:46	06:09	70	12:23	79N	18:38	290	19:00
2024	May	19	(Sun)	05:46	06:08	70	12:23	79N	18:38	290	19:01
2024	May	20	(Mon)	05:46	06:08	70	12:23	78N	18:38	290	19:01
2024	May	21	(Tue)	05:46	06:08	69	12:23	78N	18:39	291	19:01
2024	May	22	(Wed)	05:46	06:08	69	12:24	78N	18:39	291	19:01
2024	May	23	(Thu)	05:46	06:08	69	12:24	78N	18:39	291	19:01
2024	May	24	(Fri)	05:46	06:08	69	12:24	78N	18:39	291	19:02
2024	May	25	(Sat)	05:46	06:08	69	12:24	77N	18:39	291	19:02
2024	May	26	(Sun)	05:46	06:08	69	12:24	77N	18:40	292	19:02
2024	May	27	(Mon)	05:46	06:08	68	12:24	77N	18:40	292	19:02
2024	May	28	(Tue)	05:46	06:08	68	12:24	77N	18:40	292	19:03
2024	May	29	(Wed)	05:46	06:08	68	12:24	77N	18:40	292	19:03
2024	May	30	(Thu)	05:46	06:08	68	12:24	77N	18:41	292	19:03
2024	May	31	(Fri)	05:46	06:08	68	12:25	76N	18:41	292	19:03
2024	Jun	01	(Sat)	05:46	06:08	68	12:25	76N	18:41	292	19:04
2024	Jun	02	(Sun)	05:46	06:08	67	12:25	76N	18:41	293	19:04
2024	Jun	03	(Mon)	05:46	06:09	67	12:25	76N	18:42	293	19:04
2024	Jun	04	(Tue)	05:46	06:09	67	12:25	76N	18:42	293	19:05
2024	Jun	05	(Wed)	05:46	06:09	67	12:25	76N	18:42	293	19:05
2024	Jun	06	(Thu)	05:46	06:09	67	12:26	76N	18:42	293	19:05
2024	Jun	07	(Fri)	05:46	06:09	67	12:26	76N	18:43	293	19:05
2024	Jun	08	(Sat)	05:46	06:09	67	12:26	76N	18:43	293	19:06
2024	Jun	09	(Sun)	05:46	06:09	67	12:26	75N	18:43	293	19:06
2024	Jun	10	(Mon)	05:47	06:09	67	12:26	75N	18:43	293	19:06
2024	Jun	11	(Tue)	05:47	06:10	67	12:27	75N	18:44	293	19:06
2024	Jun	12	(Wed)	05:47	06:10	66	12:27	75N	18:44	294	19:07
2024	Jun	13	(Thu)	05:47	06:10	66	12:27	75N	18:44	294	19:07
2024	Jun	14	(Fri)	05:47	06:10	66	12:27	75N	18:44	294	19:07
2024	Jun	15	(Sat)	05:47	06:10	66	12:27	75N	18:45	294	19:07
2024	Jun	16	(Sun)	05:48	06:10	66	12:28	75N	18:45	294	19:08
2024	Jun	17	(Mon)	05:48	06:11	66	12:28	75N	18:45	294	19:08
2024	Jun	18	(Tue)	05:48	06:11	66	12:28	75N	18:45	294	19:08
2024	Jun	19	(Wed)	05:48	06:11	66	12:28	75N	18:45	294	19:08
2024	Jun	20	(Thu)	05:48	06:11	66	12:28	75N	18:46	294	19:09
2024	Jun	21	(Fri)	05:49	06:11	66	12:29	75N	18:46	294	19:09
2024	Jun	22	(Sat)	05:49	06:12	66	12:29	75N	18:46	294	19:09
2024	Jun	23	(Sun)	05:49	06:12	66	12:29	75N	18:46	294	19:09
2024	Jun	24	(Mon)	05:49	06:12	66	12:29	75N	18:47	294	19:09
2024	Jun	25	(Tue)	05:49	06:12	66	12:30	75N	18:47	294	19:10
2024	Jun	26	(Wed)	05:50	06:13	66	12:30	75N	18:47	294	19:10
2024	Jun	27	(Thu)	05:50	06:13	66	12:30	75N	18:47	294	19:10
2024	Jun	28	(Fri)	05:50	06:13	66	12:30	75N	18:47	294	19:10
2024	Jun	29	(Sat)	05:50	06:13	66	12:30	75N	18:47	294	19:10
2024	Jun	30	(Sun)	05:51	06:14	66	12:31	75N	18:48	293	19:10
2024	Jul	01	(Mon)	05:51	06:14	67	12:31	75N	18:48	293	19:11
2024	Jul	02	(Tue)	05:51	06:14	67	12:31	75N	18:48	293	19:11
2024	Jul	03	(Wed)	05:51	06:14	67	12:31	76N	18:48	293	19:11

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

2024	Sep	14	(Sat)	05:56	06:17	87	12:22	86S	18:27	273	18:48
2024	Sep	15	(Sun)	05:56	06:17	87	12:22	86S	18:27	273	18:48
2024	Sep	16	(Mon)	05:56	06:17	87	12:22	85S	18:26	272	18:47
2024	Sep	17	(Tue)	05:56	06:17	88	12:21	85S	18:26	272	18:46
2024	Sep	18	(Wed)	05:56	06:17	88	12:21	85S	18:25	272	18:46
2024	Sep	19	(Thu)	05:56	06:16	88	12:20	84S	18:24	271	18:45
2024	Sep	20	(Fri)	05:55	06:16	89	12:20	84S	18:24	271	18:45
2024	Sep	21	(Sat)	05:55	06:16	89	12:20	83S	18:23	271	18:44
2024	Sep	22	(Sun)	05:55	06:16	90	12:19	83S	18:23	270	18:44
2024	Sep	23	(Mon)	05:55	06:16	90	12:19	83S	18:22	270	18:43
2024	Sep	24	(Tue)	05:55	06:16	90	12:19	82S	18:22	269	18:42
2024	Sep	25	(Wed)	05:55	06:16	91	12:18	82S	18:21	269	18:42
2024	Sep	26	(Thu)	05:55	06:16	91	12:18	82S	18:20	269	18:41
2024	Sep	27	(Fri)	05:55	06:15	92	12:18	81S	18:20	268	18:41
2024	Sep	28	(Sat)	05:54	06:15	92	12:17	81S	18:19	268	18:40
2024	Sep	29	(Sun)	05:54	06:15	92	12:17	80S	18:19	267	18:40
2024	Sep	30	(Mon)	05:54	06:15	93	12:17	80S	18:18	267	18:39
2024	Oct	01	(Tue)	05:54	06:15	93	12:16	80S	18:18	267	18:39
2024	Oct	02	(Wed)	05:54	06:15	94	12:16	79S	18:17	266	18:38
2024	Oct	03	(Thu)	05:54	06:15	94	12:16	79S	18:17	266	18:38
2024	Oct	04	(Fri)	05:54	06:15	94	12:15	78S	18:16	265	18:37
2024	Oct	05	(Sat)	05:54	06:14	95	12:15	78S	18:16	265	18:37
2024	Oct	06	(Sun)	05:53	06:14	95	12:15	78S	18:15	265	18:36
2024	Oct	07	(Mon)	05:53	06:14	96	12:15	77S	18:15	264	18:36
2024	Oct	08	(Tue)	05:53	06:14	96	12:14	77S	18:14	264	18:35
2024	Oct	09	(Wed)	05:53	06:14	96	12:14	77S	18:14	264	18:35
2024	Oct	10	(Thu)	05:53	06:14	97	12:14	76S	18:13	263	18:34
2024	Oct	11	(Fri)	05:53	06:14	97	12:13	76S	18:13	263	18:34
2024	Oct	12	(Sat)	05:53	06:14	97	12:13	75S	18:12	262	18:33
2024	Oct	13	(Sun)	05:53	06:14	98	12:13	75S	18:12	262	18:33
2024	Oct	14	(Mon)	05:53	06:14	98	12:13	75S	18:11	262	18:33
2024	Oct	15	(Tue)	05:53	06:14	99	12:13	74S	18:11	261	18:32
2024	Oct	16	(Wed)	05:53	06:14	99	12:12	74S	18:11	261	18:32
2024	Oct	17	(Thu)	05:53	06:14	99	12:12	74S	18:10	261	18:31
2024	Oct	18	(Fri)	05:53	06:14	100	12:12	73S	18:10	260	18:31
2024	Oct	19	(Sat)	05:53	06:14	100	12:12	73S	18:09	260	18:31
2024	Oct	20	(Sun)	05:53	06:14	100	12:12	72S	18:09	259	18:30
2024	Oct	21	(Mon)	05:53	06:14	101	12:11	72S	18:09	259	18:30
2024	Oct	22	(Tue)	05:53	06:14	101	12:11	72S	18:08	259	18:30
2024	Oct	23	(Wed)	05:53	06:14	101	12:11	71S	18:08	258	18:29
2024	Oct	24	(Thu)	05:53	06:14	102	12:11	71S	18:08	258	18:29
2024	Oct	25	(Fri)	05:53	06:14	102	12:11	71S	18:07	258	18:29
2024	Oct	26	(Sat)	05:53	06:14	103	12:11	70S	18:07	257	18:28
2024	Oct	27	(Sun)	05:53	06:14	103	12:11	70S	18:07	257	18:28
2024	Oct	28	(Mon)	05:53	06:14	103	12:11	70S	18:07	257	18:28
2024	Oct	29	(Tue)	05:53	06:15	104	12:10	69S	18:06	256	18:28
2024	Oct	30	(Wed)	05:53	06:15	104	12:10	69S	18:06	256	18:28
2024	Oct	31	(Thu)	05:53	06:15	104	12:10	69S	18:06	256	18:27
2024	Nov	01	(Fri)	05:53	06:15	105	12:10	68S	18:06	255	18:27
2024	Nov	02	(Sat)	05:54	06:15	105	12:10	68S	18:05	255	18:27
2024	Nov	03	(Sun)	05:54	06:15	105	12:10	68S	18:05	255	18:27
2024	Nov	04	(Mon)	05:54	06:15	105	12:10	67S	18:05	254	18:27
2024	Nov	05	(Tue)	05:54	06:16	106	12:10	67S	18:05	254	18:27
2024	Nov	06	(Wed)	05:54	06:16	106	12:10	67S	18:05	254	18:27
2024	Nov	07	(Thu)	05:54	06:16	106	12:10	67S	18:05	253	18:26
2024	Nov	08	(Fri)	05:55	06:16	107	12:11	66S	18:05	253	18:26
2024	Nov	09	(Sat)	05:55	06:17	107	12:11	66S	18:05	253	18:26
2024	Nov	10	(Sun)	05:55	06:17	107	12:11	66S	18:05	253	18:26
2024	Nov	11	(Mon)	05:55	06:17	108	12:11	65S	18:04	252	18:26
2024	Nov	12	(Tue)	05:56	06:17	108	12:11	65S	18:04	252	18:26
2024	Nov	13	(Wed)	05:56	06:18	108	12:11	65S	18:04	252	18:26
2024	Nov	14	(Thu)	05:56	06:18	108	12:11	65S	18:04	252	18:26
2024	Nov	15	(Fri)	05:56	06:18	109	12:11	64S	18:04	251	18:26
2024	Nov	16	(Sat)	05:57	06:19	109	12:12	64S	18:05	251	18:27
2024	Nov	17	(Sun)	05:57	06:19	109	12:12	64S	18:05	251	18:27
2024	Nov	18	(Mon)	05:57	06:19	109	12:12	64S	18:05	251	18:27
2024	Nov	19	(Tue)	05:58	06:20	110	12:12	63S	18:05	250	18:27
2024	Nov	20	(Wed)	05:58	06:20	110	12:12	63S	18:05	250	18:27
2024	Nov	21	(Thu)	05:58	06:20	110	12:13	63S	18:05	250	18:27
2024	Nov	22	(Fri)	05:59	06:21	110	12:13	63S	18:05	250	18:27
2024	Nov	23	(Sat)	05:59	06:21	110	12:13	63S	18:05	249	18:27
2024	Nov	24	(Sun)	05:59	06:22	111	12:14	62S	18:05	249	18:28

2024	Nov	25	(Mon)	06:00	06:22	111	12:14	62S	18:06	249	18:28
2024	Nov	26	(Tue)	06:00	06:22	111	12:14	62S	18:06	249	18:28
2024	Nov	27	(Wed)	06:01	06:23	111	12:14	62S	18:06	249	18:28
2024	Nov	28	(Thu)	06:01	06:23	111	12:15	62S	18:06	248	18:29
2024	Nov	29	(Fri)	06:01	06:24	112	12:15	61S	18:07	248	18:29
2024	Nov	30	(Sat)	06:02	06:24	112	12:16	61S	18:07	248	18:29
2024	Dec	01	(Sun)	06:02	06:25	112	12:16	61S	18:07	248	18:30
2024	Dec	02	(Mon)	06:03	06:25	112	12:16	61S	18:07	248	18:30
2024	Dec	03	(Tue)	06:03	06:26	112	12:17	61S	18:08	248	18:30
2024	Dec	04	(Wed)	06:04	06:26	112	12:17	61S	18:08	248	18:31
2024	Dec	05	(Thu)	06:04	06:27	112	12:17	61S	18:08	247	18:31
2024	Dec	06	(Fri)	06:05	06:27	113	12:18	60S	18:09	247	18:31
2024	Dec	07	(Sat)	06:05	06:28	113	12:18	60S	18:09	247	18:32
2024	Dec	08	(Sun)	06:06	06:28	113	12:19	60S	18:09	247	18:32
2024	Dec	09	(Mon)	06:06	06:29	113	12:19	60S	18:10	247	18:32
2024	Dec	10	(Tue)	06:06	06:29	113	12:20	60S	18:10	247	18:33
2024	Dec	11	(Wed)	06:07	06:30	113	12:20	60S	18:11	247	18:33
2024	Dec	12	(Thu)	06:07	06:30	113	12:21	60S	18:11	247	18:34
2024	Dec	13	(Fri)	06:08	06:31	113	12:21	60S	18:11	247	18:34
2024	Dec	14	(Sat)	06:08	06:31	113	12:22	60S	18:12	247	18:35
2024	Dec	15	(Sun)	06:09	06:32	113	12:22	60S	18:12	247	18:35
2024	Dec	16	(Mon)	06:09	06:32	113	12:23	60S	18:13	247	18:35
2024	Dec	17	(Tue)	06:10	06:33	113	12:23	60S	18:13	247	18:36
2024	Dec	18	(Wed)	06:11	06:33	114	12:23	60S	18:14	246	18:36
2024	Dec	19	(Thu)	06:11	06:34	114	12:24	60S	18:14	246	18:37
2024	Dec	20	(Fri)	06:12	06:34	114	12:24	60S	18:15	246	18:37
2024	Dec	21	(Sat)	06:12	06:35	114	12:25	60S	18:15	246	18:38
2024	Dec	22	(Sun)	06:13	06:35	114	12:25	60S	18:16	246	18:38
2024	Dec	23	(Mon)	06:13	06:36	114	12:26	60S	18:16	246	18:39
2024	Dec	24	(Tue)	06:13	06:36	114	12:26	60S	18:17	246	18:39
2024	Dec	25	(Wed)	06:14	06:37	113	12:27	60S	18:17	247	18:40
2024	Dec	26	(Thu)	06:14	06:37	113	12:27	60S	18:18	247	18:40
2024	Dec	27	(Fri)	06:15	06:38	113	12:28	60S	18:18	247	18:41
2024	Dec	28	(Sat)	06:15	06:38	113	12:28	60S	18:19	247	18:41
2024	Dec	29	(Sun)	06:16	06:39	113	12:29	60S	18:19	247	18:42
2024	Dec	30	(Mon)	06:16	06:39	113	12:29	60S	18:20	247	18:43
2024	Dec	31	(Tue)	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	°
2024 Jan 01 (Mon)	22:44	81		04:18	85N		10:35	282	
2024 Jan 02 (Tue)	23:26	86		04:59	91N		11:12	276	
2024 Jan 03 (Wed)				05:38	85S		11:47	271	
2024 Jan 04 (Thu)	00:09	92		06:17	79S		12:24	265	
2024 Jan 05 (Fri)	00:52	98		06:57	73S		13:01	259	
2024 Jan 06 (Sat)	01:37	104		07:40	68S		13:42	254	
2024 Jan 07 (Sun)	02:26	109		08:27	63S		14:26	249	
2024 Jan 08 (Mon)	03:20	113		09:19	58S		15:17	245	
2024 Jan 09 (Tue)	04:18	117		10:16	55S		16:13	242	
2024 Jan 10 (Wed)	05:20	118		11:17	54S		17:15	242	
2024 Jan 11 (Thu)	06:23	118		12:21	55S		18:20	243	
2024 Jan 12 (Fri)	07:25	116		13:24	58S		19:24	246	
2024 Jan 13 (Sat)	08:22	111		14:23	63S		20:26	251	
2024 Jan 14 (Sun)	09:15	106		15:19	69S		21:24	258	
2024 Jan 15 (Mon)	10:03	99		16:10	76S		22:19	265	
2024 Jan 16 (Tue)	10:49	92		16:59	83S		23:11	272	
2024 Jan 17 (Wed)	11:33	85		17:47	90S				
2024 Jan 18 (Thu)	12:17	78		18:35	85N		00:03	279	
2024 Jan 19 (Fri)	13:02	72		19:24	80N		00:55	285	
2024 Jan 20 (Sat)	13:50	68		20:16	75N		01:48	290	
2024 Jan 21 (Sun)	14:41	64		21:10	72N		02:43	294	
2024 Jan 22 (Mon)	15:34	62		22:05	70N		03:39	297	
2024 Jan 23 (Tue)	16:29	62		23:00	70N		04:35	298	

2024	Jan	24	(Wed)	17:24	63	23:53	72N	05:30	298
2024	Jan	25	(Thu)	18:17	65			06:21	296
2024	Jan	26	(Fri)	19:08	69	00:44	75N	07:09	293
2024	Jan	27	(Sat)	19:55	74	01:31	79N	07:52	289
2024	Jan	28	(Sun)	20:40	79	02:14	83N	08:32	284
2024	Jan	29	(Mon)	21:22	84	02:56	89N	09:10	278
2024	Jan	30	(Tue)	22:05	90	03:35	87S	09:46	273
2024	Jan	31	(Wed)	22:47	96	04:14	81S	10:21	267
2024	Feb	01	(Thu)	23:31	102	04:53	75S	10:58	261
2024	Feb	02	(Fri)			05:34	70S	11:36	256
2024	Feb	03	(Sat)	00:17	107	06:18	65S	12:18	251
2024	Feb	04	(Sun)	01:07	112	07:06	60S	13:04	246
2024	Feb	05	(Mon)	02:01	115	07:59	56S	13:56	243
2024	Feb	06	(Tue)	03:00	118	08:57	54S	14:54	242
2024	Feb	07	(Wed)	04:02	119	09:59	54S	15:57	242
2024	Feb	08	(Thu)	05:04	117	11:03	56S	17:02	244
2024	Feb	09	(Fri)	06:04	114	12:04	60S	18:06	249
2024	Feb	10	(Sat)	07:00	109	13:03	66S	19:07	254
2024	Feb	11	(Sun)	07:52	102	13:58	72S	20:05	261
2024	Feb	12	(Mon)	08:40	95	14:49	80S	21:01	269
2024	Feb	13	(Tue)	09:26	88	15:39	87S	21:55	276
2024	Feb	14	(Wed)	10:12	80	16:29	87N	22:48	283
2024	Feb	15	(Thu)	10:58	74	17:19	81N	23:43	289
2024	Feb	16	(Fri)	11:47	69	18:12	76N		
2024	Feb	17	(Sat)	12:37	65	19:05	72N	00:38	293
2024	Feb	18	(Sun)	13:30	62	20:00	70N	01:35	297
2024	Feb	19	(Mon)	14:25	61	20:56	70N	02:31	298
2024	Feb	20	(Tue)	15:20	62	21:49	71N	03:26	298
2024	Feb	21	(Wed)	16:13	64	22:40	73N	04:18	297
2024	Feb	22	(Thu)	17:04	68	23:28	77N	05:06	294
2024	Feb	23	(Fri)	17:52	72			05:51	290
2024	Feb	24	(Sat)	18:37	77	00:12	82N	06:31	286
2024	Feb	25	(Sun)	19:20	83	00:54	87N	07:09	280
2024	Feb	26	(Mon)	20:03	88	01:34	89S	07:46	275
2024	Feb	27	(Tue)	20:45	94	02:13	83S	08:21	269
2024	Feb	28	(Wed)	21:28	100	02:52	77S	08:57	263
2024	Feb	29	(Thu)	22:12	105	03:32	71S	09:35	257
2024	Mar	01	(Fri)	23:00	110	04:14	66S	10:15	252
2024	Mar	02	(Sat)	23:52	114	05:00	61S	10:58	248
2024	Mar	03	(Sun)			05:50	58S	11:47	244
2024	Mar	04	(Mon)	00:47	117	06:44	55S	12:41	242
2024	Mar	05	(Tue)	01:46	119	07:43	54S	13:39	241
2024	Mar	06	(Wed)	02:46	118	08:43	55S	14:41	243
2024	Mar	07	(Thu)	03:46	116	09:44	58S	15:44	246
2024	Mar	08	(Fri)	04:42	112	10:43	62S	16:46	251
2024	Mar	09	(Sat)	05:36	106	11:40	69S	17:45	257
2024	Mar	10	(Sun)	06:26	99	12:33	76S	18:43	265
2024	Mar	11	(Mon)	07:14	91	13:25	83S	19:38	272
2024	Mar	12	(Tue)	08:01	84	14:16	91N	20:34	280
2024	Mar	13	(Wed)	08:48	77	15:08	84N	21:30	286
2024	Mar	14	(Thu)	09:38	71	16:02	78N	22:27	292
2024	Mar	15	(Fri)	10:29	66	16:57	73N	23:26	296
2024	Mar	16	(Sat)	11:23	63	17:53	71N		
2024	Mar	17	(Sun)	12:19	61	18:50	70N	00:24	298
2024	Mar	18	(Mon)	13:14	62	19:45	70N	01:21	299
2024	Mar	19	(Tue)	14:09	63	20:37	72N	02:15	298
2024	Mar	20	(Wed)	15:00	66	21:26	76N	03:04	295
2024	Mar	21	(Thu)	15:49	70	22:11	80N	03:50	292
2024	Mar	22	(Fri)	16:35	75	22:53	85N	04:31	287
2024	Mar	23	(Sat)	17:19	81	23:33	91N	05:10	282
2024	Mar	24	(Sun)	18:01	86			05:46	276
2024	Mar	25	(Mon)	18:43	92	00:12	85S	06:22	271
2024	Mar	26	(Tue)	19:26	98	00:51	79S	06:58	265
2024	Mar	27	(Wed)	20:10	104	01:31	73S	07:35	259
2024	Mar	28	(Thu)	20:57	109	02:13	68S	08:14	254
2024	Mar	29	(Fri)	21:47	113	02:57	63S	08:56	249
2024	Mar	30	(Sat)	22:41	117	03:46	59S	09:43	245
2024	Mar	31	(Sun)	23:38	119	04:38	56S	10:34	242
2024	Apr	01	(Mon)			05:34	54S	11:30	241
2024	Apr	02	(Tue)	00:36	119	06:32	54S	12:29	242
2024	Apr	03	(Wed)	01:34	117	07:31	56S	13:30	244
2024	Apr	04	(Thu)	02:30	114	08:29	60S	14:30	248

2024 Apr 05 (Fri)	03:23 109	09:25 65S	15:28 254
2024 Apr 06 (Sat)	04:13 103	10:18 72S	16:25 261
2024 Apr 07 (Sun)	05:00 95	11:09 79S	17:20 268
2024 Apr 08 (Mon)	05:47 88	12:00 87S	18:16 276
2024 Apr 09 (Tue)	06:34 81	12:52 87N	19:12 283
2024 Apr 10 (Wed)	07:23 74	13:46 81N	20:10 289
2024 Apr 11 (Thu)	08:15 68	14:42 75N	21:10 294
2024 Apr 12 (Fri)	09:10 64	15:40 72N	22:10 297
2024 Apr 13 (Sat)	10:07 62	16:38 70N	23:10 299
2024 Apr 14 (Sun)	11:05 61	17:36 70N	
2024 Apr 15 (Mon)	12:01 62	18:31 71N	00:07 298
2024 Apr 16 (Tue)	12:55 65	19:21 74N	00:59 296
2024 Apr 17 (Wed)	13:45 69	20:08 78N	01:46 293
2024 Apr 18 (Thu)	14:32 74	20:51 83N	02:30 289
2024 Apr 19 (Fri)	15:16 79	21:32 89N	03:09 284
2024 Apr 20 (Sat)	15:59 84	22:12 87S	03:46 278
2024 Apr 21 (Sun)	16:41 90	22:50 81S	04:22 273
2024 Apr 22 (Mon)	17:24 96	23:30 75S	04:58 267
2024 Apr 23 (Tue)	18:08 102		05:35 261
2024 Apr 24 (Wed)	18:54 107	00:11 70S	06:13 255
2024 Apr 25 (Thu)	19:44 112	00:55 64S	06:55 250
2024 Apr 26 (Fri)	20:37 116	01:43 60S	07:40 246
2024 Apr 27 (Sat)	21:33 118	02:34 56S	08:31 243
2024 Apr 28 (Sun)	22:31 119	03:29 54S	09:25 241
2024 Apr 29 (Mon)	23:28 118	04:27 54S	10:23 241
2024 Apr 30 (Tue)		05:25 55S	11:23 243
2024 May 01 (Wed)	00:24 115	06:22 59S	12:22 247
2024 May 02 (Thu)	01:16 111	07:17 63S	13:19 252
2024 May 03 (Fri)	02:05 105	08:09 69S	14:14 258
2024 May 04 (Sat)	02:52 98	08:59 76S	15:08 265
2024 May 05 (Sun)	03:37 91	09:48 83S	16:01 272
2024 May 06 (Mon)	04:23 84	10:38 91S	16:56 280
2024 May 07 (Tue)	05:10 77	11:30 84N	17:52 286
2024 May 08 (Wed)	06:00 71	12:25 78N	18:51 292
2024 May 09 (Thu)	06:54 66	13:22 73N	19:52 296
2024 May 10 (Fri)	07:51 63	14:22 71N	20:53 298
2024 May 11 (Sat)	08:50 61	15:21 70N	21:53 299
2024 May 12 (Sun)	09:48 62	16:19 71N	22:49 297
2024 May 13 (Mon)	10:45 64	17:13 73N	23:39 294
2024 May 14 (Tue)	11:37 67	18:02 77N	
2024 May 15 (Wed)	12:26 72	18:47 81N	00:25 291
2024 May 16 (Thu)	13:12 77	19:29 87N	01:07 286
2024 May 17 (Fri)	13:55 82	20:09 89S	01:45 280
2024 May 18 (Sat)	14:38 88	20:48 83S	02:21 275
2024 May 19 (Sun)	15:20 94	21:27 77S	02:57 269
2024 May 20 (Mon)	16:03 100	22:08 72S	03:33 263
2024 May 21 (Tue)	16:49 105	22:51 66S	04:11 257
2024 May 22 (Wed)	17:37 110	23:37 61S	04:51 252
2024 May 23 (Thu)	18:30 114		05:36 248
2024 May 24 (Fri)	19:26 117	00:28 57S	06:25 244
2024 May 25 (Sat)	20:24 119	01:23 55S	07:19 242
2024 May 26 (Sun)	21:23 118	02:21 54S	08:17 241
2024 May 27 (Mon)	22:20 116	03:20 55S	09:17 243
2024 May 28 (Tue)	23:13 112	04:18 58S	10:17 246
2024 May 29 (Wed)		05:13 62S	11:14 250
2024 May 30 (Thu)	00:03 107	06:05 67S	12:09 256
2024 May 31 (Fri)	00:49 101	06:55 74S	13:02 263
2024 Jun 01 (Sat)	01:34 94	07:43 81S	13:54 270
2024 Jun 02 (Sun)	02:18 87	08:31 88S	14:46 277
2024 Jun 03 (Mon)	03:03 80	09:20 87N	15:40 284
2024 Jun 04 (Tue)	03:50 73	10:12 80N	16:36 290
2024 Jun 05 (Wed)	04:41 68	11:07 75N	17:35 294
2024 Jun 06 (Thu)	05:36 64	12:06 72N	18:36 297
2024 Jun 07 (Fri)	06:34 62	13:05 70N	19:37 299
2024 Jun 08 (Sat)	07:33 61	14:05 70N	20:36 298
2024 Jun 09 (Sun)	08:31 63	15:01 72N	21:29 296
2024 Jun 10 (Mon)	09:27 66	15:53 75N	22:18 292
2024 Jun 11 (Tue)	10:18 70	16:40 80N	23:01 288
2024 Jun 12 (Wed)	11:05 75	17:24 85N	23:41 282
2024 Jun 13 (Thu)	11:50 80	18:05 90N	
2024 Jun 14 (Fri)	12:33 86	18:44 85S	00:18 277
2024 Jun 15 (Sat)	13:15 92	19:23 80S	00:54 271

2024 Jun 16 (Sun)	13:57 98	20:03 74S	01:30 265
2024 Jun 17 (Mon)	14:42 103	20:45 68S	02:07 260
2024 Jun 18 (Tue)	15:29 108	21:29 63S	02:46 254
2024 Jun 19 (Wed)	16:20 113	22:19 59S	03:29 249
2024 Jun 20 (Thu)	17:15 116	23:12 56S	04:16 245
2024 Jun 21 (Fri)	18:13 118		05:09 243
2024 Jun 22 (Sat)	19:13 119	00:10 54S	06:07 241
2024 Jun 23 (Sun)	20:12 117	01:10 54S	07:07 242
2024 Jun 24 (Mon)	21:08 113	02:10 57S	08:09 245
2024 Jun 25 (Tue)	22:00 108	03:07 60S	09:08 249
2024 Jun 26 (Wed)	22:48 102	04:02 66S	10:05 254
2024 Jun 27 (Thu)	23:33 96	04:52 72S	10:59 261
2024 Jun 28 (Fri)		05:41 79S	11:51 268
2024 Jun 29 (Sat)	00:17 89	06:29 86S	12:43 275
2024 Jun 30 (Sun)	01:01 82	07:17 88N	13:35 282
2024 Jul 01 (Mon)	01:46 75	08:07 82N	14:29 288
2024 Jul 02 (Tue)	02:35 70	08:59 77N	15:26 293
2024 Jul 03 (Wed)	03:27 65	09:55 73N	16:25 296
2024 Jul 04 (Thu)	04:22 62	10:53 70N	17:25 298
2024 Jul 05 (Fri)	05:21 61	11:52 70N	18:24 298
2024 Jul 06 (Sat)	06:19 62	12:50 71N	19:19 297
2024 Jul 07 (Sun)	07:16 65	13:43 74N	20:10 294
2024 Jul 08 (Mon)	08:09 68	14:33 78N	20:55 289
2024 Jul 09 (Tue)	08:58 73	15:18 83N	21:37 284
2024 Jul 10 (Wed)	09:44 78	16:00 88N	22:15 279
2024 Jul 11 (Thu)	10:28 84	16:40 88S	22:52 273
2024 Jul 12 (Fri)	11:10 90	17:19 82S	23:27 267
2024 Jul 13 (Sat)	11:52 96	17:58 76S	
2024 Jul 14 (Sun)	12:35 101	18:39 70S	00:03 262
2024 Jul 15 (Mon)	13:20 107	19:22 65S	00:41 256
2024 Jul 16 (Tue)	14:09 111	20:08 60S	01:22 251
2024 Jul 17 (Wed)	15:02 115	21:00 57S	02:06 247
2024 Jul 18 (Thu)	15:58 118	21:55 55S	02:57 243
2024 Jul 19 (Fri)	16:58 119	22:55 54S	03:52 242
2024 Jul 20 (Sat)	17:58 118	23:56 55S	04:52 241
2024 Jul 21 (Sun)	18:57 115		05:54 243
2024 Jul 22 (Mon)	19:51 110	00:56 59S	06:56 247
2024 Jul 23 (Tue)	20:42 105	01:53 64S	07:55 252
2024 Jul 24 (Wed)	21:29 98	02:46 70S	08:52 259
2024 Jul 25 (Thu)	22:15 91	03:37 77S	09:46 266
2024 Jul 26 (Fri)	22:59 84	04:26 84S	10:39 273
2024 Jul 27 (Sat)	23:44 77	05:14 90N	11:31 280
2024 Jul 28 (Sun)		06:04 84N	12:25 286
2024 Jul 29 (Mon)	00:32 71	06:55 78N	13:21 292
2024 Jul 30 (Tue)	01:23 66	07:50 74N	14:19 296
2024 Jul 31 (Wed)	02:16 63	08:47 71N	15:18 298
2024 Aug 01 (Thu)	03:13 61	09:45 70N	16:16 299
2024 Aug 02 (Fri)	04:11 62	10:42 70N	17:12 298
2024 Aug 03 (Sat)	05:07 63	11:36 73N	18:04 295
2024 Aug 04 (Sun)	06:01 67	12:27 76N	18:51 291
2024 Aug 05 (Mon)	06:52 71	13:13 81N	19:33 286
2024 Aug 06 (Tue)	07:39 76	13:57 86N	20:13 281
2024 Aug 07 (Wed)	08:23 82	14:37 90S	20:50 275
2024 Aug 08 (Thu)	09:06 88	15:16 84S	21:25 269
2024 Aug 09 (Fri)	09:48 93	15:55 78S	22:01 264
2024 Aug 10 (Sat)	10:30 99	16:35 72S	22:38 258
2024 Aug 11 (Sun)	11:14 105	17:16 67S	23:16 253
2024 Aug 12 (Mon)	12:01 110	18:00 62S	23:59 248
2024 Aug 13 (Tue)	12:51 114	18:49 58S	
2024 Aug 14 (Wed)	13:45 117	19:41 55S	00:46 245
2024 Aug 15 (Thu)	14:42 119	20:38 54S	01:38 242
2024 Aug 16 (Fri)	15:41 119	21:38 54S	02:35 241
2024 Aug 17 (Sat)	16:40 117	22:38 57S	03:35 242
2024 Aug 18 (Sun)	17:37 113	23:37 61S	04:38 245
2024 Aug 19 (Mon)	18:30 107		05:39 250
2024 Aug 20 (Tue)	19:20 101	00:33 67S	06:38 256
2024 Aug 21 (Wed)	20:07 94	01:26 74S	07:34 263
2024 Aug 22 (Thu)	20:53 86	02:17 81S	08:29 270
2024 Aug 23 (Fri)	21:40 79	03:07 89S	09:24 278
2024 Aug 24 (Sat)	22:28 73	03:58 86N	10:19 284
2024 Aug 25 (Sun)	23:19 67	04:50 80N	11:15 290
2024 Aug 26 (Mon)		05:45 75N	12:13 295

2024 Aug 27 (Tue)	00:12 64	06:42 71N	13:13 298
2024 Aug 28 (Wed)	01:08 62	07:40 70N	14:11 299
2024 Aug 29 (Thu)	02:06 61	08:37 70N	15:08 298
2024 Aug 30 (Fri)	03:02 63	09:32 72N	16:00 296
2024 Aug 31 (Sat)	03:57 65	10:23 75N	16:48 293
2024 Sep 01 (Sun)	04:48 69	11:11 79N	17:32 288
2024 Sep 02 (Mon)	05:35 74	11:54 84N	18:12 283
2024 Sep 03 (Tue)	06:20 80	12:36 90N	18:49 277
2024 Sep 04 (Wed)	07:03 86	13:15 86S	19:25 271
2024 Sep 05 (Thu)	07:45 91	13:54 80S	20:01 266
2024 Sep 06 (Fri)	08:27 97	14:33 74S	20:37 260
2024 Sep 07 (Sat)	09:11 103	15:13 69S	21:14 255
2024 Sep 08 (Sun)	09:56 108	15:56 64S	21:55 250
2024 Sep 09 (Mon)	10:44 112	16:42 59S	22:39 246
2024 Sep 10 (Tue)	11:35 116	17:32 56S	23:28 243
2024 Sep 11 (Wed)	12:30 118	18:26 54S	
2024 Sep 12 (Thu)	13:27 119	19:23 54S	00:22 241
2024 Sep 13 (Fri)	14:25 118	20:22 55S	01:19 241
2024 Sep 14 (Sat)	15:21 115	21:20 59S	02:19 243
2024 Sep 15 (Sun)	16:15 110	22:16 64S	03:20 247
2024 Sep 16 (Mon)	17:06 104	23:10 70S	04:19 252
2024 Sep 17 (Tue)	17:55 97		05:17 259
2024 Sep 18 (Wed)	18:42 90	00:03 77S	06:13 266
2024 Sep 19 (Thu)	19:29 82	00:54 85S	07:09 274
2024 Sep 20 (Fri)	20:18 75	01:46 89N	08:05 281
2024 Sep 21 (Sat)	21:10 69	02:39 82N	09:03 288
2024 Sep 22 (Sun)	22:04 65	03:35 76N	10:03 293
2024 Sep 23 (Mon)	23:01 62	04:33 72N	11:04 297
2024 Sep 24 (Tue)	24:00 61	05:33 70N	12:04 299
2024 Sep 25 (Wed)		06:31 69N	13:03 299
2024 Sep 26 (Thu)	00:57 62	07:28 71N	13:57 297
2024 Sep 27 (Fri)	01:53 64	08:20 74N	14:47 294
2024 Sep 28 (Sat)	02:45 68	09:09 78N	15:31 290
2024 Sep 29 (Sun)	03:33 73	09:53 82N	16:12 285
2024 Sep 30 (Mon)	04:19 78	10:35 88N	16:50 279
2024 Oct 01 (Tue)	05:02 84	11:15 88S	17:26 273
2024 Oct 02 (Wed)	05:44 90	11:54 82S	18:01 268
2024 Oct 03 (Thu)	06:26 95	12:32 76S	18:37 262
2024 Oct 04 (Fri)	07:09 101	13:12 70S	19:14 256
2024 Oct 05 (Sat)	07:53 106	13:54 65S	19:54 251
2024 Oct 06 (Sun)	08:40 111	14:39 61S	20:37 247
2024 Oct 07 (Mon)	09:30 115	15:27 57S	21:24 244
2024 Oct 08 (Tue)	10:23 118	16:19 55S	22:15 242
2024 Oct 09 (Wed)	11:18 119	17:14 54S	23:10 241
2024 Oct 10 (Thu)	12:14 119	18:11 54S	
2024 Oct 11 (Fri)	13:10 117	19:07 57S	00:07 242
2024 Oct 12 (Sat)	14:03 113	20:02 61S	01:06 245
2024 Oct 13 (Sun)	14:53 108	20:56 67S	02:03 250
2024 Oct 14 (Mon)	15:42 101	21:47 73S	03:00 255
2024 Oct 15 (Tue)	16:28 94	22:38 81S	03:55 262
2024 Oct 16 (Wed)	17:15 86	23:29 88S	04:50 270
2024 Oct 17 (Thu)	18:04 79		05:46 277
2024 Oct 18 (Fri)	18:54 72	00:22 86N	06:44 285
2024 Oct 19 (Sat)	19:49 67	01:18 79N	07:44 291
2024 Oct 20 (Sun)	20:47 63	02:17 74N	08:47 295
2024 Oct 21 (Mon)	21:47 61	03:18 71N	09:50 298
2024 Oct 22 (Tue)	22:48 61	04:20 69N	10:52 299
2024 Oct 23 (Wed)	23:46 63	05:19 70N	11:50 298
2024 Oct 24 (Thu)		06:15 73N	12:42 295
2024 Oct 25 (Fri)	00:40 67	07:05 76N	13:29 291
2024 Oct 26 (Sat)	01:30 71	07:52 81N	14:11 286
2024 Oct 27 (Sun)	02:16 76	08:34 86N	14:50 281
2024 Oct 28 (Mon)	03:00 82	09:14 90S	15:27 275
2024 Oct 29 (Tue)	03:43 88	09:53 84S	16:02 269
2024 Oct 30 (Wed)	04:24 93	10:32 78S	16:38 264
2024 Oct 31 (Thu)	05:07 99	11:11 72S	17:14 258
2024 Nov 01 (Fri)	05:51 105	11:53 67S	17:53 253
2024 Nov 02 (Sat)	06:37 110	12:37 62S	18:35 248
2024 Nov 03 (Sun)	07:27 114	13:24 58S	19:21 245
2024 Nov 04 (Mon)	08:19 117	14:16 55S	20:11 242
2024 Nov 05 (Tue)	09:14 119	15:10 54S	21:05 241
2024 Nov 06 (Wed)	10:09 119	16:05 54S	22:02 242

2024 Nov 07 (Thu)	11:04 117	17:01 56S	22:59 244
2024 Nov 08 (Fri)	11:57 114	17:55 60S	23:55 248
2024 Nov 09 (Sat)	12:47 110	18:47 64S	
2024 Nov 10 (Sun)	13:34 104	19:38 70S	00:50 253
2024 Nov 11 (Mon)	14:19 97	20:27 77S	01:43 259
2024 Nov 12 (Tue)	15:04 90	21:16 85S	02:36 266
2024 Nov 13 (Wed)	15:50 83	22:06 89N	03:30 274
2024 Nov 14 (Thu)	16:39 76	23:00 82N	04:25 281
2024 Nov 15 (Fri)	17:31 70	23:57 77N	05:23 288
2024 Nov 16 (Sat)	18:28 65		06:24 293
2024 Nov 17 (Sun)	19:28 62	00:57 72N	07:29 297
2024 Nov 18 (Mon)	20:31 61	02:00 70N	08:33 299
2024 Nov 19 (Tue)	21:32 62	03:03 70N	09:35 298
2024 Nov 20 (Wed)	22:29 65	04:02 71N	10:32 296
2024 Nov 21 (Thu)	23:23 69	04:57 75N	11:22 293
2024 Nov 22 (Fri)		05:46 79N	12:07 288
2024 Nov 23 (Sat)	00:11 74	06:31 84N	12:48 283
2024 Nov 24 (Sun)	00:57 80	07:12 90N	13:26 277
2024 Nov 25 (Mon)	01:40 86	07:51 86S	14:02 271
2024 Nov 26 (Tue)	02:22 92	08:30 80S	14:37 266
2024 Nov 27 (Wed)	03:04 97	09:09 74S	15:13 260
2024 Nov 28 (Thu)	03:47 103	09:50 69S	15:51 255
2024 Nov 29 (Fri)	04:33 108	10:33 64S	16:32 250
2024 Nov 30 (Sat)	05:21 112	11:20 59S	17:17 246
2024 Dec 01 (Sun)	06:13 116	12:10 56S	18:07 243
2024 Dec 02 (Mon)	07:08 118	13:04 54S	19:00 241
2024 Dec 03 (Tue)	08:04 119	14:00 54S	19:57 242
2024 Dec 04 (Wed)	09:00 118	14:57 55S	20:54 243
2024 Dec 05 (Thu)	09:54 115	15:52 59S	21:51 247
2024 Dec 06 (Fri)	10:44 111	16:44 63S	22:46 252
2024 Dec 07 (Sat)	11:31 106	17:34 69S	23:38 257
2024 Dec 08 (Sun)	12:16 99	18:22 75S	
2024 Dec 09 (Mon)	13:00 92	19:09 82S	00:30 264
2024 Dec 10 (Tue)	13:43 85	19:57 89S	01:21 271
2024 Dec 11 (Wed)	14:29 79	20:47 85N	02:13 278
2024 Dec 12 (Thu)	15:18 72	21:41 79N	03:08 285
2024 Dec 13 (Fri)	16:11 67	22:39 74N	04:06 291
2024 Dec 14 (Sat)	17:09 63	23:40 71N	05:08 295
2024 Dec 15 (Sun)	18:10 61		06:12 298
2024 Dec 16 (Mon)	19:13 62	00:43 70N	07:16 299
2024 Dec 17 (Tue)	20:14 64	01:45 70N	08:16 297
2024 Dec 18 (Wed)	21:10 68	02:43 73N	09:10 294
2024 Dec 19 (Thu)	22:02 72	03:35 77N	09:59 290
2024 Dec 20 (Fri)	22:50 78	04:23 82N	10:42 285
2024 Dec 21 (Sat)	23:34 84	05:07 88N	11:22 279
2024 Dec 22 (Sun)		05:47 88S	11:59 274
2024 Dec 23 (Mon)	00:17 89	06:27 82S	12:35 268
2024 Dec 24 (Tue)	00:59 95	07:06 76S	13:11 262
2024 Dec 25 (Wed)	01:42 101	07:45 71S	13:48 256
2024 Dec 26 (Thu)	02:26 106	08:27 65S	14:27 251
2024 Dec 27 (Fri)	03:14 111	09:13 61S	15:11 247
2024 Dec 28 (Sat)	04:04 115	10:02 57S	15:58 244
2024 Dec 29 (Sun)	04:58 117	10:55 55S	16:51 242
2024 Dec 30 (Mon)	05:55 119	11:51 54S	17:47 241
2024 Dec 31 (Tue)	06:52 118	12:48 55S	18:45 243