

Sun

Nan

Location: E100°43'55.1", N18°41'09.5", 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)	05:58	06:49	114	12:20 49S	17:51 246		18:42
2024	Jan	02 (Tue)	05:59	06:50	114	12:21 49S	17:52 246		18:43
2024	Jan	03 (Wed)	05:59	06:50	114	12:21 49S	17:52 246		18:43
2024	Jan	04 (Thu)	06:00	06:50	114	12:22 49S	17:53 246		18:44
2024	Jan	05 (Fri)	06:00	06:51	114	12:22 49S	17:54 246		18:44
2024	Jan	06 (Sat)	06:00	06:51	114	12:23 49S	17:54 246		18:45
2024	Jan	07 (Sun)	06:00	06:51	113	12:23 50S	17:55 247		18:46
2024	Jan	08 (Mon)	06:01	06:51	113	12:23 50S	17:56 247		18:46
2024	Jan	09 (Tue)	06:01	06:52	113	12:24 50S	17:56 247		18:47
2024	Jan	10 (Wed)	06:01	06:52	113	12:24 50S	17:57 247		18:47
2024	Jan	11 (Thu)	06:02	06:52	113	12:25 50S	17:57 247		18:48
2024	Jan	12 (Fri)	06:02	06:52	113	12:25 50S	17:58 247		18:49
2024	Jan	13 (Sat)	06:02	06:52	113	12:25 50S	17:59 248		18:49
2024	Jan	14 (Sun)	06:02	06:52	112	12:26 51S	17:59 248		18:50
2024	Jan	15 (Mon)	06:02	06:53	112	12:26 51S	18:00 248		18:50
2024	Jan	16 (Tue)	06:02	06:53	112	12:27 51S	18:01 248		18:51
2024	Jan	17 (Wed)	06:03	06:53	112	12:27 51S	18:01 248		18:51
2024	Jan	18 (Thu)	06:03	06:53	112	12:27 51S	18:02 249		18:52
2024	Jan	19 (Fri)	06:03	06:53	111	12:28 52S	18:03 249		18:53
2024	Jan	20 (Sat)	06:03	06:53	111	12:28 52S	18:03 249		18:53
2024	Jan	21 (Sun)	06:03	06:53	111	12:28 52S	18:04 249		18:54
2024	Jan	22 (Mon)	06:03	06:53	111	12:28 52S	18:04 249		18:54
2024	Jan	23 (Tue)	06:03	06:53	110	12:29 52S	18:05 250		18:55
2024	Jan	24 (Wed)	06:03	06:52	110	12:29 53S	18:06 250		18:55
2024	Jan	25 (Thu)	06:03	06:52	110	12:29 53S	18:06 250		18:56
2024	Jan	26 (Fri)	06:03	06:52	110	12:29 53S	18:07 250		18:56
2024	Jan	27 (Sat)	06:03	06:52	109	12:30 53S	18:07 251		18:57
2024	Jan	28 (Sun)	06:03	06:52	109	12:30 54S	18:08 251		18:57
2024	Jan	29 (Mon)	06:02	06:52	109	12:30 54S	18:09 251		18:58
2024	Jan	30 (Tue)	06:02	06:51	109	12:30 54S	18:09 252		18:58
2024	Jan	31 (Wed)	06:02	06:51	108	12:30 55S	18:10 252		18:59
2024	Feb	01 (Thu)	06:02	06:51	108	12:31 55S	18:10 252		18:59
2024	Feb	02 (Fri)	06:02	06:51	108	12:31 55S	18:11 252		19:00
2024	Feb	03 (Sat)	06:01	06:50	107	12:31 55S	18:11 253		19:00
2024	Feb	04 (Sun)	06:01	06:50	107	12:31 56S	18:12 253		19:01
2024	Feb	05 (Mon)	06:01	06:50	107	12:31 56S	18:12 253		19:01
2024	Feb	06 (Tue)	06:01	06:49	106	12:31 56S	18:13 254		19:02
2024	Feb	07 (Wed)	06:00	06:49	106	12:31 57S	18:13 254		19:02
2024	Feb	08 (Thu)	06:00	06:49	106	12:31 57S	18:14 254		19:03
2024	Feb	09 (Fri)	06:00	06:48	105	12:31 57S	18:14 255		19:03
2024	Feb	10 (Sat)	05:59	06:48	105	12:31 58S	18:15 255		19:03
2024	Feb	11 (Sun)	05:59	06:47	105	12:31 58S	18:15 255		19:04
2024	Feb	12 (Mon)	05:59	06:47	104	12:31 58S	18:16 256		19:04
2024	Feb	13 (Tue)	05:58	06:46	104	12:31 58S	18:16 256		19:05
2024	Feb	14 (Wed)	05:58	06:46	104	12:31 59S	18:17 256		19:05
2024	Feb	15 (Thu)	05:57	06:45	103	12:31 59S	18:17 257		19:05
2024	Feb	16 (Fri)	05:57	06:45	103	12:31 60S	18:18 257		19:06
2024	Feb	17 (Sat)	05:56	06:44	103	12:31 60S	18:18 258		19:06
2024	Feb	18 (Sun)	05:56	06:44	102	12:31 60S	18:19 258		19:06
2024	Feb	19 (Mon)	05:55	06:43	102	12:31 61S	18:19 258		19:07
2024	Feb	20 (Tue)	05:55	06:43	102	12:31 61S	18:19 259		19:07
2024	Feb	21 (Wed)	05:54	06:42	101	12:31 61S	18:20 259		19:07
2024	Feb	22 (Thu)	05:54	06:41	101	12:31 62S	18:20 259		19:08
2024	Feb	23 (Fri)	05:53	06:41	100	12:31 62S	18:20 260		19:08
2024	Feb	24 (Sat)	05:53	06:40	100	12:30 62S	18:21 260		19:08
2024	Feb	25 (Sun)	05:52	06:39	100	12:30 63S	18:21 261		19:09
2024	Feb	26 (Mon)	05:51	06:39	99	12:30 63S	18:22 261		19:09
2024	Feb	27 (Tue)	05:51	06:38	99	12:30 63S	18:22 261		19:09
2024	Feb	28 (Wed)	05:50	06:37	98	12:30 64S	18:22 262		19:10
2024	Feb	29 (Thu)	05:49	06:37	98	12:30 64S	18:23 262		19:10

2024	Mar	01	(Fri)	05:49	06:36	98	12:29	65S	18:23	263	19:10
2024	Mar	02	(Sat)	05:48	06:35	97	12:29	65S	18:23	263	19:11
2024	Mar	03	(Sun)	05:47	06:35	97	12:29	65S	18:24	263	19:11
2024	Mar	04	(Mon)	05:47	06:34	96	12:29	66S	18:24	264	19:11
2024	Mar	05	(Tue)	05:46	06:33	96	12:28	66S	18:24	264	19:11
2024	Mar	06	(Wed)	05:45	06:32	96	12:28	67S	18:24	265	19:12
2024	Mar	07	(Thu)	05:44	06:32	95	12:28	67S	18:25	265	19:12
2024	Mar	08	(Fri)	05:44	06:31	95	12:28	67S	18:25	265	19:12
2024	Mar	09	(Sat)	05:43	06:30	94	12:28	68S	18:25	266	19:12
2024	Mar	10	(Sun)	05:42	06:29	94	12:27	68S	18:26	266	19:13
2024	Mar	11	(Mon)	05:41	06:28	94	12:27	69S	18:26	267	19:13
2024	Mar	12	(Tue)	05:41	06:28	93	12:27	69S	18:26	267	19:13
2024	Mar	13	(Wed)	05:40	06:27	93	12:26	69S	18:26	268	19:14
2024	Mar	14	(Thu)	05:39	06:26	92	12:26	70S	18:27	268	19:14
2024	Mar	15	(Fri)	05:38	06:25	92	12:26	70S	18:27	268	19:14
2024	Mar	16	(Sat)	05:37	06:24	91	12:26	70S	18:27	269	19:14
2024	Mar	17	(Sun)	05:36	06:24	91	12:25	71S	18:27	269	19:15
2024	Mar	18	(Mon)	05:36	06:23	91	12:25	71S	18:28	270	19:15
2024	Mar	19	(Tue)	05:35	06:22	90	12:25	72S	18:28	270	19:15
2024	Mar	20	(Wed)	05:34	06:21	90	12:24	72S	18:28	270	19:15
2024	Mar	21	(Thu)	05:33	06:20	89	12:24	72S	18:28	271	19:16
2024	Mar	22	(Fri)	05:32	06:19	89	12:24	73S	18:29	271	19:16
2024	Mar	23	(Sat)	05:31	06:19	89	12:24	73S	18:29	272	19:16
2024	Mar	24	(Sun)	05:31	06:18	88	12:23	74S	18:29	272	19:16
2024	Mar	25	(Mon)	05:30	06:17	88	12:23	74S	18:29	273	19:17
2024	Mar	26	(Tue)	05:29	06:16	87	12:23	74S	18:29	273	19:17
2024	Mar	27	(Wed)	05:28	06:15	87	12:22	75S	18:30	273	19:17
2024	Mar	28	(Thu)	05:27	06:14	86	12:22	75S	18:30	274	19:17
2024	Mar	29	(Fri)	05:26	06:14	86	12:22	76S	18:30	274	19:18
2024	Mar	30	(Sat)	05:25	06:13	86	12:21	76S	18:30	275	19:18
2024	Mar	31	(Sun)	05:24	06:12	85	12:21	76S	18:31	275	19:18
2024	Apr	01	(Mon)	05:24	06:11	85	12:21	77S	18:31	275	19:18
2024	Apr	02	(Tue)	05:23	06:10	84	12:21	77S	18:31	276	19:19
2024	Apr	03	(Wed)	05:22	06:09	84	12:20	78S	18:31	276	19:19
2024	Apr	04	(Thu)	05:21	06:09	84	12:20	78S	18:32	277	19:19
2024	Apr	05	(Fri)	05:20	06:08	83	12:20	78S	18:32	277	19:20
2024	Apr	06	(Sat)	05:19	06:07	83	12:19	79S	18:32	277	19:20
2024	Apr	07	(Sun)	05:18	06:06	82	12:19	79S	18:32	278	19:20
2024	Apr	08	(Mon)	05:18	06:05	82	12:19	79S	18:33	278	19:20
2024	Apr	09	(Tue)	05:17	06:05	82	12:19	80S	18:33	279	19:21
2024	Apr	10	(Wed)	05:16	06:04	81	12:18	80S	18:33	279	19:21
2024	Apr	11	(Thu)	05:15	06:03	81	12:18	81S	18:33	279	19:21
2024	Apr	12	(Fri)	05:14	06:02	80	12:18	81S	18:34	280	19:22
2024	Apr	13	(Sat)	05:13	06:02	80	12:18	81S	18:34	280	19:22
2024	Apr	14	(Sun)	05:13	06:01	80	12:17	82S	18:34	281	19:22
2024	Apr	15	(Mon)	05:12	06:00	79	12:17	82S	18:34	281	19:23
2024	Apr	16	(Tue)	05:11	05:59	79	12:17	82S	18:35	281	19:23
2024	Apr	17	(Wed)	05:10	05:59	79	12:17	83S	18:35	282	19:23
2024	Apr	18	(Thu)	05:09	05:58	78	12:16	83S	18:35	282	19:24
2024	Apr	19	(Fri)	05:09	05:57	78	12:16	83S	18:35	282	19:24
2024	Apr	20	(Sat)	05:08	05:56	77	12:16	84S	18:36	283	19:24
2024	Apr	21	(Sun)	05:07	05:56	77	12:16	84S	18:36	283	19:25
2024	Apr	22	(Mon)	05:06	05:55	77	12:16	84S	18:36	283	19:25
2024	Apr	23	(Tue)	05:05	05:54	76	12:15	85S	18:37	284	19:26
2024	Apr	24	(Wed)	05:05	05:54	76	12:15	85S	18:37	284	19:26
2024	Apr	25	(Thu)	05:04	05:53	76	12:15	85S	18:37	284	19:26
2024	Apr	26	(Fri)	05:03	05:53	75	12:15	86S	18:37	285	19:27
2024	Apr	27	(Sat)	05:03	05:52	75	12:15	86S	18:38	285	19:27
2024	Apr	28	(Sun)	05:02	05:51	75	12:15	86S	18:38	286	19:28
2024	Apr	29	(Mon)	05:01	05:51	74	12:14	87S	18:38	286	19:28
2024	Apr	30	(Tue)	05:00	05:50	74	12:14	87S	18:39	286	19:28
2024	May	01	(Wed)	05:00	05:50	74	12:14	87S	18:39	286	19:29
2024	May	02	(Thu)	04:59	05:49	73	12:14	88S	18:39	287	19:29
2024	May	03	(Fri)	04:59	05:48	73	12:14	88S	18:40	287	19:30
2024	May	04	(Sat)	04:58	05:48	73	12:14	88S	18:40	287	19:30
2024	May	05	(Sun)	04:57	05:47	72	12:14	88S	18:40	288	19:31
2024	May	06	(Mon)	04:57	05:47	72	12:14	89S	18:41	288	19:31
2024	May	07	(Tue)	04:56	05:46	72	12:14	89S	18:41	288	19:31
2024	May	08	(Wed)	04:56	05:46	72	12:14	89S	18:41	289	19:32
2024	May	09	(Thu)	04:55	05:45	71	12:14	90S	18:42	289	19:32
2024	May	10	(Fri)	04:54	05:45	71	12:13	90S	18:42	289	19:33
2024	May	11	(Sat)	04:54	05:45	71	12:13	90S	18:43	289	19:33

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

2024	Jul	23	(Tue)	05:00	05:52	69	12:24	89N	18:55	291	19:47
2024	Jul	24	(Wed)	05:00	05:52	69	12:24	90N	18:55	291	19:47
2024	Jul	25	(Thu)	05:01	05:52	69	12:24	90N	18:55	291	19:46
2024	Jul	26	(Fri)	05:01	05:53	69	12:24	90N	18:54	291	19:46
2024	Jul	27	(Sat)	05:02	05:53	69	12:24	90N	18:54	290	19:45
2024	Jul	28	(Sun)	05:02	05:53	70	12:24	91N	18:54	290	19:45
2024	Jul	29	(Mon)	05:03	05:54	70	12:24	91S	18:53	290	19:44
2024	Jul	30	(Tue)	05:03	05:54	70	12:24	90S	18:53	290	19:44
2024	Jul	31	(Wed)	05:03	05:54	70	12:23	90S	18:53	289	19:43
2024	Aug	01	(Thu)	05:04	05:55	71	12:23	90S	18:52	289	19:43
2024	Aug	02	(Fri)	05:04	05:55	71	12:23	90S	18:52	289	19:42
2024	Aug	03	(Sat)	05:05	05:55	71	12:23	89S	18:51	289	19:42
2024	Aug	04	(Sun)	05:05	05:56	72	12:23	89S	18:51	288	19:41
2024	Aug	05	(Mon)	05:05	05:56	72	12:23	89S	18:50	288	19:40
2024	Aug	06	(Tue)	05:06	05:56	72	12:23	89S	18:50	288	19:40
2024	Aug	07	(Wed)	05:06	05:56	72	12:23	88S	18:49	287	19:39
2024	Aug	08	(Thu)	05:07	05:57	73	12:23	88S	18:48	287	19:38
2024	Aug	09	(Fri)	05:07	05:57	73	12:23	88S	18:48	287	19:38
2024	Aug	10	(Sat)	05:07	05:57	73	12:22	87S	18:47	287	19:37
2024	Aug	11	(Sun)	05:08	05:58	74	12:22	87S	18:47	286	19:36
2024	Aug	12	(Mon)	05:08	05:58	74	12:22	87S	18:46	286	19:36
2024	Aug	13	(Tue)	05:09	05:58	74	12:22	87S	18:45	286	19:35
2024	Aug	14	(Wed)	05:09	05:58	75	12:22	86S	18:45	285	19:34
2024	Aug	15	(Thu)	05:09	05:59	75	12:22	86S	18:44	285	19:33
2024	Aug	16	(Fri)	05:10	05:59	75	12:21	86S	18:43	285	19:33
2024	Aug	17	(Sat)	05:10	05:59	76	12:21	85S	18:43	284	19:32
2024	Aug	18	(Sun)	05:10	05:59	76	12:21	85S	18:42	284	19:31
2024	Aug	19	(Mon)	05:11	06:00	76	12:21	85S	18:41	284	19:30
2024	Aug	20	(Tue)	05:11	06:00	77	12:20	84S	18:41	283	19:30
2024	Aug	21	(Wed)	05:11	06:00	77	12:20	84S	18:40	283	19:29
2024	Aug	22	(Thu)	05:12	06:00	77	12:20	84S	18:39	282	19:28
2024	Aug	23	(Fri)	05:12	06:01	78	12:20	83S	18:38	282	19:27
2024	Aug	24	(Sat)	05:12	06:01	78	12:19	83S	18:38	282	19:26
2024	Aug	25	(Sun)	05:12	06:01	78	12:19	83S	18:37	281	19:25
2024	Aug	26	(Mon)	05:13	06:01	79	12:19	82S	18:36	281	19:25
2024	Aug	27	(Tue)	05:13	06:01	79	12:19	82S	18:35	281	19:24
2024	Aug	28	(Wed)	05:13	06:02	80	12:18	82S	18:35	280	19:23
2024	Aug	29	(Thu)	05:14	06:02	80	12:18	81S	18:34	280	19:22
2024	Aug	30	(Fri)	05:14	06:02	80	12:18	81S	18:33	279	19:21
2024	Aug	31	(Sat)	05:14	06:02	81	12:17	80S	18:32	279	19:20
2024	Sep	01	(Sun)	05:14	06:02	81	12:17	80S	18:31	279	19:19
2024	Sep	02	(Mon)	05:15	06:03	81	12:17	80S	18:31	278	19:18
2024	Sep	03	(Tue)	05:15	06:03	82	12:16	79S	18:30	278	19:18
2024	Sep	04	(Wed)	05:15	06:03	82	12:16	79S	18:29	278	19:17
2024	Sep	05	(Thu)	05:15	06:03	83	12:16	79S	18:28	277	19:16
2024	Sep	06	(Fri)	05:16	06:03	83	12:15	78S	18:27	277	19:15
2024	Sep	07	(Sat)	05:16	06:03	83	12:15	78S	18:26	276	19:14
2024	Sep	08	(Sun)	05:16	06:04	84	12:15	78S	18:25	276	19:13
2024	Sep	09	(Mon)	05:16	06:04	84	12:14	77S	18:25	276	19:12
2024	Sep	10	(Tue)	05:16	06:04	85	12:14	77S	18:24	275	19:11
2024	Sep	11	(Wed)	05:17	06:04	85	12:14	76S	18:23	275	19:10
2024	Sep	12	(Thu)	05:17	06:04	85	12:13	76S	18:22	274	19:09
2024	Sep	13	(Fri)	05:17	06:04	86	12:13	76S	18:21	274	19:08
2024	Sep	14	(Sat)	05:17	06:05	86	12:13	75S	18:20	274	19:08
2024	Sep	15	(Sun)	05:17	06:05	87	12:12	75S	18:19	273	19:07
2024	Sep	16	(Mon)	05:18	06:05	87	12:12	74S	18:18	273	19:06
2024	Sep	17	(Tue)	05:18	06:05	87	12:11	74S	18:18	272	19:05
2024	Sep	18	(Wed)	05:18	06:05	88	12:11	74S	18:17	272	19:04
2024	Sep	19	(Thu)	05:18	06:05	88	12:11	73S	18:16	272	19:03
2024	Sep	20	(Fri)	05:18	06:06	89	12:10	73S	18:15	271	19:02
2024	Sep	21	(Sat)	05:19	06:06	89	12:10	73S	18:14	271	19:01
2024	Sep	22	(Sun)	05:19	06:06	89	12:10	72S	18:13	270	19:00
2024	Sep	23	(Mon)	05:19	06:06	90	12:09	72S	18:12	270	18:59
2024	Sep	24	(Tue)	05:19	06:06	90	12:09	71S	18:11	269	18:59
2024	Sep	25	(Wed)	05:19	06:07	91	12:09	71S	18:11	269	18:58
2024	Sep	26	(Thu)	05:20	06:07	91	12:08	71S	18:10	269	18:57
2024	Sep	27	(Fri)	05:20	06:07	92	12:08	70S	18:09	268	18:56
2024	Sep	28	(Sat)	05:20	06:07	92	12:08	70S	18:08	268	18:55
2024	Sep	29	(Sun)	05:20	06:07	92	12:07	69S	18:07	267	18:54
2024	Sep	30	(Mon)	05:20	06:07	93	12:07	69S	18:06	267	18:53
2024	Oct	01	(Tue)	05:20	06:08	93	12:07	69S	18:05	267	18:53
2024	Oct	02	(Wed)	05:21	06:08	94	12:06	68S	18:05	266	18:52

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

2024	Dec	14	(Sat)	05:50	06:41	114	12:12	49S	17:42	246	18:33
2024	Dec	15	(Sun)	05:51	06:42	114	12:12	49S	17:43	246	18:34
2024	Dec	16	(Mon)	05:51	06:42	114	12:13	49S	17:43	246	18:34
2024	Dec	17	(Tue)	05:52	06:43	114	12:13	49S	17:44	246	18:35
2024	Dec	18	(Wed)	05:52	06:43	114	12:14	49S	17:44	246	18:35
2024	Dec	19	(Thu)	05:53	06:44	114	12:14	49S	17:45	245	18:36
2024	Dec	20	(Fri)	05:53	06:44	115	12:15	49S	17:45	245	18:36
2024	Dec	21	(Sat)	05:54	06:45	115	12:15	49S	17:46	245	18:37
2024	Dec	22	(Sun)	05:54	06:45	115	12:16	49S	17:46	245	18:37
2024	Dec	23	(Mon)	05:55	06:46	115	12:16	49S	17:47	245	18:38
2024	Dec	24	(Tue)	05:55	06:46	114	12:17	49S	17:47	246	18:38
2024	Dec	25	(Wed)	05:56	06:47	114	12:17	49S	17:48	246	18:39
2024	Dec	26	(Thu)	05:56	06:47	114	12:18	49S	17:48	246	18:39
2024	Dec	27	(Fri)	05:57	06:48	114	12:18	49S	17:49	246	18:40
2024	Dec	28	(Sat)	05:57	06:48	114	12:19	49S	17:49	246	18:40
2024	Dec	29	(Sun)	05:58	06:49	114	12:19	49S	17:50	246	18:41
2024	Dec	30	(Mon)	05:58	06:49	114	12:20	49S	17:50	246	18:41
2024	Dec	31	(Tue)	05:58	06:49	114	12:20	49S	17:51	246	18:42

Sun

Nan

Location: E100°43'55.1", N18°41'09.5", 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)	06:26	06:49	114	12:20	49S	17:51	246	18:15
2024	Jan	02	(Tue)	06:26	06:50	114	12:21	49S	17:52	246	18:15
2024	Jan	03	(Wed)	06:26	06:50	114	12:21	49S	17:52	246	18:16
2024	Jan	04	(Thu)	06:27	06:50	114	12:22	49S	17:53	246	18:17
2024	Jan	05	(Fri)	06:27	06:51	114	12:22	49S	17:54	246	18:17
2024	Jan	06	(Sat)	06:27	06:51	114	12:23	49S	17:54	246	18:18
2024	Jan	07	(Sun)	06:28	06:51	113	12:23	50S	17:55	247	18:18
2024	Jan	08	(Mon)	06:28	06:51	113	12:23	50S	17:56	247	18:19
2024	Jan	09	(Tue)	06:28	06:52	113	12:24	50S	17:56	247	18:20
2024	Jan	10	(Wed)	06:28	06:52	113	12:24	50S	17:57	247	18:20
2024	Jan	11	(Thu)	06:29	06:52	113	12:25	50S	17:57	247	18:21
2024	Jan	12	(Fri)	06:29	06:52	113	12:25	50S	17:58	247	18:22
2024	Jan	13	(Sat)	06:29	06:52	113	12:25	50S	17:59	248	18:22
2024	Jan	14	(Sun)	06:29	06:52	112	12:26	51S	17:59	248	18:23
2024	Jan	15	(Mon)	06:29	06:53	112	12:26	51S	18:00	248	18:23
2024	Jan	16	(Tue)	06:29	06:53	112	12:27	51S	18:01	248	18:24
2024	Jan	17	(Wed)	06:29	06:53	112	12:27	51S	18:01	248	18:25
2024	Jan	18	(Thu)	06:29	06:53	112	12:27	51S	18:02	249	18:25
2024	Jan	19	(Fri)	06:29	06:53	111	12:28	52S	18:03	249	18:26
2024	Jan	20	(Sat)	06:29	06:53	111	12:28	52S	18:03	249	18:26
2024	Jan	21	(Sun)	06:29	06:53	111	12:28	52S	18:04	249	18:27
2024	Jan	22	(Mon)	06:29	06:53	111	12:28	52S	18:04	249	18:28
2024	Jan	23	(Tue)	06:29	06:53	110	12:29	52S	18:05	250	18:28
2024	Jan	24	(Wed)	06:29	06:52	110	12:29	53S	18:06	250	18:29
2024	Jan	25	(Thu)	06:29	06:52	110	12:29	53S	18:06	250	18:29
2024	Jan	26	(Fri)	06:29	06:52	110	12:29	53S	18:07	250	18:30
2024	Jan	27	(Sat)	06:29	06:52	109	12:30	53S	18:07	251	18:30
2024	Jan	28	(Sun)	06:29	06:52	109	12:30	54S	18:08	251	18:31
2024	Jan	29	(Mon)	06:29	06:52	109	12:30	54S	18:09	251	18:31
2024	Jan	30	(Tue)	06:29	06:51	109	12:30	54S	18:09	252	18:32
2024	Jan	31	(Wed)	06:28	06:51	108	12:30	55S	18:10	252	18:33
2024	Feb	01	(Thu)	06:28	06:51	108	12:31	55S	18:10	252	18:33
2024	Feb	02	(Fri)	06:28	06:51	108	12:31	55S	18:11	252	18:34
2024	Feb	03	(Sat)	06:28	06:50	107	12:31	55S	18:11	253	18:34
2024	Feb	04	(Sun)	06:27	06:50	107	12:31	56S	18:12	253	18:35
2024	Feb	05	(Mon)	06:27	06:50	107	12:31	56S	18:12	253	18:35
2024	Feb	06	(Tue)	06:27	06:49	106	12:31	56S	18:13	254	18:36
2024	Feb	07	(Wed)	06:26	06:49	106	12:31	57S	18:13	254	18:36
2024	Feb	08	(Thu)	06:26	06:49	106	12:31	57S	18:14	254	18:37
2024	Feb	09	(Fri)	06:26	06:48	105	12:31	57S	18:14	255	18:37
2024	Feb	10	(Sat)	06:25	06:48	105	12:31	58S	18:15	255	18:37

2024	Feb	11	(Sun)	06:25	06:47	105	12:31	58S	18:15	255	18:38
2024	Feb	12	(Mon)	06:24	06:47	104	12:31	58S	18:16	256	18:38
2024	Feb	13	(Tue)	06:24	06:46	104	12:31	58S	18:16	256	18:39
2024	Feb	14	(Wed)	06:24	06:46	104	12:31	59S	18:17	256	18:39
2024	Feb	15	(Thu)	06:23	06:45	103	12:31	59S	18:17	257	18:40
2024	Feb	16	(Fri)	06:23	06:45	103	12:31	60S	18:18	257	18:40
2024	Feb	17	(Sat)	06:22	06:44	103	12:31	60S	18:18	258	18:40
2024	Feb	18	(Sun)	06:22	06:44	102	12:31	60S	18:19	258	18:41
2024	Feb	19	(Mon)	06:21	06:43	102	12:31	61S	18:19	258	18:41
2024	Feb	20	(Tue)	06:20	06:43	102	12:31	61S	18:19	259	18:42
2024	Feb	21	(Wed)	06:20	06:42	101	12:31	61S	18:20	259	18:42
2024	Feb	22	(Thu)	06:19	06:41	101	12:31	62S	18:20	259	18:42
2024	Feb	23	(Fri)	06:19	06:41	100	12:31	62S	18:20	260	18:43
2024	Feb	24	(Sat)	06:18	06:40	100	12:30	62S	18:21	260	18:43
2024	Feb	25	(Sun)	06:17	06:39	100	12:30	63S	18:21	261	18:43
2024	Feb	26	(Mon)	06:17	06:39	99	12:30	63S	18:22	261	18:44
2024	Feb	27	(Tue)	06:16	06:38	99	12:30	63S	18:22	261	18:44
2024	Feb	28	(Wed)	06:15	06:37	98	12:30	64S	18:22	262	18:44
2024	Feb	29	(Thu)	06:15	06:37	98	12:30	64S	18:23	262	18:45
2024	Mar	01	(Fri)	06:14	06:36	98	12:29	65S	18:23	263	18:45
2024	Mar	02	(Sat)	06:13	06:35	97	12:29	65S	18:23	263	18:45
2024	Mar	03	(Sun)	06:13	06:35	97	12:29	65S	18:24	263	18:45
2024	Mar	04	(Mon)	06:12	06:34	96	12:29	66S	18:24	264	18:46
2024	Mar	05	(Tue)	06:11	06:33	96	12:28	66S	18:24	264	18:46
2024	Mar	06	(Wed)	06:10	06:32	96	12:28	67S	18:24	265	18:46
2024	Mar	07	(Thu)	06:10	06:32	95	12:28	67S	18:25	265	18:47
2024	Mar	08	(Fri)	06:09	06:31	95	12:28	67S	18:25	265	18:47
2024	Mar	09	(Sat)	06:08	06:30	94	12:28	68S	18:25	266	18:47
2024	Mar	10	(Sun)	06:07	06:29	94	12:27	68S	18:26	266	18:47
2024	Mar	11	(Mon)	06:07	06:28	94	12:27	69S	18:26	267	18:48
2024	Mar	12	(Tue)	06:06	06:28	93	12:27	69S	18:26	267	18:48
2024	Mar	13	(Wed)	06:05	06:27	93	12:26	69S	18:26	268	18:48
2024	Mar	14	(Thu)	06:04	06:26	92	12:26	70S	18:27	268	18:48
2024	Mar	15	(Fri)	06:03	06:25	92	12:26	70S	18:27	268	18:49
2024	Mar	16	(Sat)	06:03	06:24	91	12:26	70S	18:27	269	18:49
2024	Mar	17	(Sun)	06:02	06:24	91	12:25	71S	18:27	269	18:49
2024	Mar	18	(Mon)	06:01	06:23	91	12:25	71S	18:28	270	18:49
2024	Mar	19	(Tue)	06:00	06:22	90	12:25	72S	18:28	270	18:50
2024	Mar	20	(Wed)	05:59	06:21	90	12:24	72S	18:28	270	18:50
2024	Mar	21	(Thu)	05:58	06:20	89	12:24	72S	18:28	271	18:50
2024	Mar	22	(Fri)	05:58	06:19	89	12:24	73S	18:29	271	18:50
2024	Mar	23	(Sat)	05:57	06:19	89	12:24	73S	18:29	272	18:51
2024	Mar	24	(Sun)	05:56	06:18	88	12:23	74S	18:29	272	18:51
2024	Mar	25	(Mon)	05:55	06:17	88	12:23	74S	18:29	273	18:51
2024	Mar	26	(Tue)	05:54	06:16	87	12:23	74S	18:29	273	18:51
2024	Mar	27	(Wed)	05:53	06:15	87	12:22	75S	18:30	273	18:52
2024	Mar	28	(Thu)	05:53	06:14	86	12:22	75S	18:30	274	18:52
2024	Mar	29	(Fri)	05:52	06:14	86	12:22	76S	18:30	274	18:52
2024	Mar	30	(Sat)	05:51	06:13	86	12:21	76S	18:30	275	18:52
2024	Mar	31	(Sun)	05:50	06:12	85	12:21	76S	18:31	275	18:53
2024	Apr	01	(Mon)	05:49	06:11	85	12:21	77S	18:31	275	18:53
2024	Apr	02	(Tue)	05:48	06:10	84	12:21	77S	18:31	276	18:53
2024	Apr	03	(Wed)	05:48	06:09	84	12:20	78S	18:31	276	18:53
2024	Apr	04	(Thu)	05:47	06:09	84	12:20	78S	18:32	277	18:54
2024	Apr	05	(Fri)	05:46	06:08	83	12:20	78S	18:32	277	18:54
2024	Apr	06	(Sat)	05:45	06:07	83	12:19	79S	18:32	277	18:54
2024	Apr	07	(Sun)	05:44	06:06	82	12:19	79S	18:32	278	18:54
2024	Apr	08	(Mon)	05:43	06:05	82	12:19	79S	18:33	278	18:55
2024	Apr	09	(Tue)	05:43	06:05	82	12:19	80S	18:33	279	18:55
2024	Apr	10	(Wed)	05:42	06:04	81	12:18	80S	18:33	279	18:55
2024	Apr	11	(Thu)	05:41	06:03	81	12:18	81S	18:33	279	18:55
2024	Apr	12	(Fri)	05:40	06:02	80	12:18	81S	18:34	280	18:56
2024	Apr	13	(Sat)	05:39	06:02	80	12:18	81S	18:34	280	18:56
2024	Apr	14	(Sun)	05:39	06:01	80	12:17	82S	18:34	281	18:56
2024	Apr	15	(Mon)	05:38	06:00	79	12:17	82S	18:34	281	18:57
2024	Apr	16	(Tue)	05:37	05:59	79	12:17	82S	18:35	281	18:57
2024	Apr	17	(Wed)	05:36	05:59	79	12:17	83S	18:35	282	18:57
2024	Apr	18	(Thu)	05:36	05:58	78	12:16	83S	18:35	282	18:57
2024	Apr	19	(Fri)	05:35	05:57	78	12:16	83S	18:35	282	18:58
2024	Apr	20	(Sat)	05:34	05:56	77	12:16	84S	18:36	283	18:58
2024	Apr	21	(Sun)	05:33	05:56	77	12:16	84S	18:36	283	18:58
2024	Apr	22	(Mon)	05:33	05:55	77	12:16	84S	18:36	283	18:59

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

2024	Jul	04	(Thu)	05:21	05:45	65	12:22	87N	18:58	294	19:22
2024	Jul	05	(Fri)	05:21	05:45	66	12:22	87N	18:58	294	19:22
2024	Jul	06	(Sat)	05:21	05:46	66	12:22	87N	18:58	294	19:22
2024	Jul	07	(Sun)	05:22	05:46	66	12:22	87N	18:58	294	19:22
2024	Jul	08	(Mon)	05:22	05:46	66	12:22	87N	18:58	294	19:22
2024	Jul	09	(Tue)	05:22	05:47	66	12:22	87N	18:58	294	19:22
2024	Jul	10	(Wed)	05:23	05:47	66	12:23	87N	18:58	294	19:22
2024	Jul	11	(Thu)	05:23	05:47	66	12:23	87N	18:58	294	19:22
2024	Jul	12	(Fri)	05:24	05:48	66	12:23	88N	18:58	293	19:22
2024	Jul	13	(Sat)	05:24	05:48	67	12:23	88N	18:58	293	19:22
2024	Jul	14	(Sun)	05:24	05:48	67	12:23	88N	18:58	293	19:21
2024	Jul	15	(Mon)	05:25	05:49	67	12:23	88N	18:57	293	19:21
2024	Jul	16	(Tue)	05:25	05:49	67	12:23	88N	18:57	293	19:21
2024	Jul	17	(Wed)	05:26	05:49	67	12:23	88N	18:57	293	19:21
2024	Jul	18	(Thu)	05:26	05:50	67	12:23	88N	18:57	292	19:21
2024	Jul	19	(Fri)	05:26	05:50	68	12:23	89N	18:57	292	19:20
2024	Jul	20	(Sat)	05:27	05:50	68	12:23	89N	18:56	292	19:20
2024	Jul	21	(Sun)	05:27	05:51	68	12:24	89N	18:56	292	19:20
2024	Jul	22	(Mon)	05:28	05:51	68	12:24	89N	18:56	292	19:19
2024	Jul	23	(Tue)	05:28	05:52	69	12:24	89N	18:55	291	19:19
2024	Jul	24	(Wed)	05:28	05:52	69	12:24	90N	18:55	291	19:19
2024	Jul	25	(Thu)	05:29	05:52	69	12:24	90N	18:55	291	19:18
2024	Jul	26	(Fri)	05:29	05:53	69	12:24	90N	18:54	291	19:18
2024	Jul	27	(Sat)	05:29	05:53	69	12:24	90N	18:54	290	19:18
2024	Jul	28	(Sun)	05:30	05:53	70	12:24	91N	18:54	290	19:17
2024	Jul	29	(Mon)	05:30	05:54	70	12:24	91S	18:53	290	19:17
2024	Jul	30	(Tue)	05:31	05:54	70	12:24	90S	18:53	290	19:16
2024	Jul	31	(Wed)	05:31	05:54	70	12:23	90S	18:53	289	19:16
2024	Aug	01	(Thu)	05:31	05:55	71	12:23	90S	18:52	289	19:15
2024	Aug	02	(Fri)	05:32	05:55	71	12:23	90S	18:52	289	19:15
2024	Aug	03	(Sat)	05:32	05:55	71	12:23	89S	18:51	289	19:14
2024	Aug	04	(Sun)	05:32	05:56	72	12:23	89S	18:51	288	19:14
2024	Aug	05	(Mon)	05:33	05:56	72	12:23	89S	18:50	288	19:13
2024	Aug	06	(Tue)	05:33	05:56	72	12:23	89S	18:50	288	19:13
2024	Aug	07	(Wed)	05:33	05:56	72	12:23	88S	18:49	287	19:12
2024	Aug	08	(Thu)	05:34	05:57	73	12:23	88S	18:48	287	19:11
2024	Aug	09	(Fri)	05:34	05:57	73	12:23	88S	18:48	287	19:11
2024	Aug	10	(Sat)	05:34	05:57	73	12:22	87S	18:47	287	19:10
2024	Aug	11	(Sun)	05:35	05:58	74	12:22	87S	18:47	286	19:10
2024	Aug	12	(Mon)	05:35	05:58	74	12:22	87S	18:46	286	19:09
2024	Aug	13	(Tue)	05:35	05:58	74	12:22	87S	18:45	286	19:08
2024	Aug	14	(Wed)	05:36	05:58	75	12:22	86S	18:45	285	19:08
2024	Aug	15	(Thu)	05:36	05:59	75	12:22	86S	18:44	285	19:07
2024	Aug	16	(Fri)	05:36	05:59	75	12:21	86S	18:43	285	19:06
2024	Aug	17	(Sat)	05:37	05:59	76	12:21	85S	18:43	284	19:05
2024	Aug	18	(Sun)	05:37	05:59	76	12:21	85S	18:42	284	19:05
2024	Aug	19	(Mon)	05:37	06:00	76	12:21	85S	18:41	284	19:04
2024	Aug	20	(Tue)	05:37	06:00	77	12:20	84S	18:41	283	19:03
2024	Aug	21	(Wed)	05:38	06:00	77	12:20	84S	18:40	283	19:02
2024	Aug	22	(Thu)	05:38	06:00	77	12:20	84S	18:39	282	19:02
2024	Aug	23	(Fri)	05:38	06:01	78	12:20	83S	18:38	282	19:01
2024	Aug	24	(Sat)	05:38	06:01	78	12:19	83S	18:38	282	19:00
2024	Aug	25	(Sun)	05:39	06:01	78	12:19	83S	18:37	281	18:59
2024	Aug	26	(Mon)	05:39	06:01	79	12:19	82S	18:36	281	18:58
2024	Aug	27	(Tue)	05:39	06:01	79	12:19	82S	18:35	281	18:58
2024	Aug	28	(Wed)	05:39	06:02	80	12:18	82S	18:35	280	18:57
2024	Aug	29	(Thu)	05:40	06:02	80	12:18	81S	18:34	280	18:56
2024	Aug	30	(Fri)	05:40	06:02	80	12:18	81S	18:33	279	18:55
2024	Aug	31	(Sat)	05:40	06:02	81	12:17	80S	18:32	279	18:54
2024	Sep	01	(Sun)	05:40	06:02	81	12:17	80S	18:31	279	18:53
2024	Sep	02	(Mon)	05:40	06:03	81	12:17	80S	18:31	278	18:53
2024	Sep	03	(Tue)	05:41	06:03	82	12:16	79S	18:30	278	18:52
2024	Sep	04	(Wed)	05:41	06:03	82	12:16	79S	18:29	278	18:51
2024	Sep	05	(Thu)	05:41	06:03	83	12:16	79S	18:28	277	18:50
2024	Sep	06	(Fri)	05:41	06:03	83	12:15	78S	18:27	277	18:49
2024	Sep	07	(Sat)	05:41	06:03	83	12:15	78S	18:26	276	18:48
2024	Sep	08	(Sun)	05:42	06:04	84	12:15	78S	18:25	276	18:47
2024	Sep	09	(Mon)	05:42	06:04	84	12:14	77S	18:25	276	18:47
2024	Sep	10	(Tue)	05:42	06:04	85	12:14	77S	18:24	275	18:46
2024	Sep	11	(Wed)	05:42	06:04	85	12:14	76S	18:23	275	18:45
2024	Sep	12	(Thu)	05:42	06:04	85	12:13	76S	18:22	274	18:44
2024	Sep	13	(Fri)	05:43	06:04	86	12:13	76S	18:21	274	18:43

2024	Sep	14	(Sat)	05:43	06:05	86	12:13	75S	18:20	274	18:42
2024	Sep	15	(Sun)	05:43	06:05	87	12:12	75S	18:19	273	18:41
2024	Sep	16	(Mon)	05:43	06:05	87	12:12	74S	18:18	273	18:40
2024	Sep	17	(Tue)	05:43	06:05	87	12:11	74S	18:18	272	18:39
2024	Sep	18	(Wed)	05:43	06:05	88	12:11	74S	18:17	272	18:39
2024	Sep	19	(Thu)	05:44	06:05	88	12:11	73S	18:16	272	18:38
2024	Sep	20	(Fri)	05:44	06:06	89	12:10	73S	18:15	271	18:37
2024	Sep	21	(Sat)	05:44	06:06	89	12:10	73S	18:14	271	18:36
2024	Sep	22	(Sun)	05:44	06:06	89	12:10	72S	18:13	270	18:35
2024	Sep	23	(Mon)	05:44	06:06	90	12:09	72S	18:12	270	18:34
2024	Sep	24	(Tue)	05:45	06:06	90	12:09	71S	18:11	269	18:33
2024	Sep	25	(Wed)	05:45	06:07	91	12:09	71S	18:11	269	18:32
2024	Sep	26	(Thu)	05:45	06:07	91	12:08	71S	18:10	269	18:31
2024	Sep	27	(Fri)	05:45	06:07	92	12:08	70S	18:09	268	18:31
2024	Sep	28	(Sat)	05:45	06:07	92	12:08	70S	18:08	268	18:30
2024	Sep	29	(Sun)	05:45	06:07	92	12:07	69S	18:07	267	18:29
2024	Sep	30	(Mon)	05:46	06:07	93	12:07	69S	18:06	267	18:28
2024	Oct	01	(Tue)	05:46	06:08	93	12:07	69S	18:05	267	18:27
2024	Oct	02	(Wed)	05:46	06:08	94	12:06	68S	18:05	266	18:26
2024	Oct	03	(Thu)	05:46	06:08	94	12:06	68S	18:04	266	18:26
2024	Oct	04	(Fri)	05:46	06:08	94	12:06	67S	18:03	265	18:25
2024	Oct	05	(Sat)	05:47	06:09	95	12:05	67S	18:02	265	18:24
2024	Oct	06	(Sun)	05:47	06:09	95	12:05	67S	18:01	265	18:23
2024	Oct	07	(Mon)	05:47	06:09	96	12:05	66S	18:00	264	18:22
2024	Oct	08	(Tue)	05:47	06:09	96	12:05	66S	18:00	264	18:22
2024	Oct	09	(Wed)	05:48	06:09	96	12:04	66S	17:59	263	18:21
2024	Oct	10	(Thu)	05:48	06:10	97	12:04	65S	17:58	263	18:20
2024	Oct	11	(Fri)	05:48	06:10	97	12:04	65S	17:57	263	18:19
2024	Oct	12	(Sat)	05:48	06:10	98	12:04	64S	17:57	262	18:19
2024	Oct	13	(Sun)	05:48	06:10	98	12:03	64S	17:56	262	18:18
2024	Oct	14	(Mon)	05:49	06:11	98	12:03	64S	17:55	261	18:17
2024	Oct	15	(Tue)	05:49	06:11	99	12:03	63S	17:54	261	18:16
2024	Oct	16	(Wed)	05:49	06:11	99	12:03	63S	17:54	261	18:16
2024	Oct	17	(Thu)	05:50	06:12	100	12:02	63S	17:53	260	18:15
2024	Oct	18	(Fri)	05:50	06:12	100	12:02	62S	17:52	260	18:14
2024	Oct	19	(Sat)	05:50	06:12	100	12:02	62S	17:52	259	18:14
2024	Oct	20	(Sun)	05:50	06:13	101	12:02	62S	17:51	259	18:13
2024	Oct	21	(Mon)	05:51	06:13	101	12:02	61S	17:50	259	18:12
2024	Oct	22	(Tue)	05:51	06:13	101	12:02	61S	17:50	258	18:12
2024	Oct	23	(Wed)	05:51	06:14	102	12:01	60S	17:49	258	18:11
2024	Oct	24	(Thu)	05:52	06:14	102	12:01	60S	17:48	258	18:11
2024	Oct	25	(Fri)	05:52	06:14	103	12:01	60S	17:48	257	18:10
2024	Oct	26	(Sat)	05:52	06:15	103	12:01	59S	17:47	257	18:09
2024	Oct	27	(Sun)	05:53	06:15	103	12:01	59S	17:47	257	18:09
2024	Oct	28	(Mon)	05:53	06:15	104	12:01	59S	17:46	256	18:08
2024	Oct	29	(Tue)	05:53	06:16	104	12:01	58S	17:45	256	18:08
2024	Oct	30	(Wed)	05:54	06:16	104	12:01	58S	17:45	255	18:07
2024	Oct	31	(Thu)	05:54	06:17	105	12:01	58S	17:44	255	18:07
2024	Nov	01	(Fri)	05:55	06:17	105	12:01	57S	17:44	255	18:06
2024	Nov	02	(Sat)	05:55	06:18	105	12:01	57S	17:44	254	18:06
2024	Nov	03	(Sun)	05:55	06:18	106	12:01	57S	17:43	254	18:06
2024	Nov	04	(Mon)	05:56	06:18	106	12:01	57S	17:43	254	18:05
2024	Nov	05	(Tue)	05:56	06:19	106	12:01	56S	17:42	253	18:05
2024	Nov	06	(Wed)	05:57	06:19	107	12:01	56S	17:42	253	18:05
2024	Nov	07	(Thu)	05:57	06:20	107	12:01	56S	17:41	253	18:04
2024	Nov	08	(Fri)	05:58	06:20	107	12:01	55S	17:41	253	18:04
2024	Nov	09	(Sat)	05:58	06:21	108	12:01	55S	17:41	252	18:04
2024	Nov	10	(Sun)	05:59	06:21	108	12:01	55S	17:40	252	18:03
2024	Nov	11	(Mon)	05:59	06:22	108	12:01	54S	17:40	252	18:03
2024	Nov	12	(Tue)	05:59	06:22	108	12:01	54S	17:40	251	18:03
2024	Nov	13	(Wed)	06:00	06:23	109	12:01	54S	17:40	251	18:03
2024	Nov	14	(Thu)	06:00	06:23	109	12:02	54S	17:39	251	18:02
2024	Nov	15	(Fri)	06:01	06:24	109	12:02	53S	17:39	251	18:02
2024	Nov	16	(Sat)	06:01	06:25	110	12:02	53S	17:39	250	18:02
2024	Nov	17	(Sun)	06:02	06:25	110	12:02	53S	17:39	250	18:02
2024	Nov	18	(Mon)	06:03	06:26	110	12:02	53S	17:39	250	18:02
2024	Nov	19	(Tue)	06:03	06:26	110	12:02	52S	17:39	250	18:02
2024	Nov	20	(Wed)	06:04	06:27	111	12:03	52S	17:39	249	18:02
2024	Nov	21	(Thu)	06:04	06:27	111	12:03	52S	17:38	249	18:02
2024	Nov	22	(Fri)	06:05	06:28	111	12:03	52S	17:38	249	18:02
2024	Nov	23	(Sat)	06:05	06:29	111	12:04	52S	17:38	249	18:02
2024	Nov	24	(Sun)	06:06	06:29	111	12:04	51S	17:38	248	18:02

2024	Nov	25	(Mon)	06:06	06:30	112	12:04	51S	17:38	248	18:02
2024	Nov	26	(Tue)	06:07	06:30	112	12:04	51S	17:38	248	18:02
2024	Nov	27	(Wed)	06:08	06:31	112	12:05	51S	17:38	248	18:02
2024	Nov	28	(Thu)	06:08	06:32	112	12:05	51S	17:38	248	18:02
2024	Nov	29	(Fri)	06:09	06:32	112	12:05	50S	17:39	247	18:02
2024	Nov	30	(Sat)	06:09	06:33	113	12:06	50S	17:39	247	18:02
2024	Dec	01	(Sun)	06:10	06:33	113	12:06	50S	17:39	247	18:02
2024	Dec	02	(Mon)	06:10	06:34	113	12:07	50S	17:39	247	18:03
2024	Dec	03	(Tue)	06:11	06:35	113	12:07	50S	17:39	247	18:03
2024	Dec	04	(Wed)	06:12	06:35	113	12:07	50S	17:39	247	18:03
2024	Dec	05	(Thu)	06:12	06:36	113	12:08	50S	17:40	247	18:03
2024	Dec	06	(Fri)	06:13	06:36	114	12:08	49S	17:40	246	18:03
2024	Dec	07	(Sat)	06:13	06:37	114	12:09	49S	17:40	246	18:04
2024	Dec	08	(Sun)	06:14	06:38	114	12:09	49S	17:40	246	18:04
2024	Dec	09	(Mon)	06:15	06:38	114	12:09	49S	17:41	246	18:04
2024	Dec	10	(Tue)	06:15	06:39	114	12:10	49S	17:41	246	18:05
2024	Dec	11	(Wed)	06:16	06:39	114	12:10	49S	17:41	246	18:05
2024	Dec	12	(Thu)	06:16	06:40	114	12:11	49S	17:42	246	18:05
2024	Dec	13	(Fri)	06:17	06:41	114	12:11	49S	17:42	246	18:06
2024	Dec	14	(Sat)	06:17	06:41	114	12:12	49S	17:42	246	18:06
2024	Dec	15	(Sun)	06:18	06:42	114	12:12	49S	17:43	246	18:07
2024	Dec	16	(Mon)	06:19	06:42	114	12:13	49S	17:43	246	18:07
2024	Dec	17	(Tue)	06:19	06:43	114	12:13	49S	17:44	246	18:07
2024	Dec	18	(Wed)	06:20	06:43	114	12:14	49S	17:44	246	18:08
2024	Dec	19	(Thu)	06:20	06:44	114	12:14	49S	17:45	245	18:08
2024	Dec	20	(Fri)	06:21	06:44	115	12:15	49S	17:45	245	18:09
2024	Dec	21	(Sat)	06:21	06:45	115	12:15	49S	17:46	245	18:09
2024	Dec	22	(Sun)	06:22	06:45	115	12:16	49S	17:46	245	18:10
2024	Dec	23	(Mon)	06:22	06:46	115	12:16	49S	17:47	245	18:10
2024	Dec	24	(Tue)	06:23	06:46	114	12:17	49S	17:47	246	18:11
2024	Dec	25	(Wed)	06:23	06:47	114	12:17	49S	17:48	246	18:11
2024	Dec	26	(Thu)	06:24	06:47	114	12:18	49S	17:48	246	18:12
2024	Dec	27	(Fri)	06:24	06:48	114	12:18	49S	17:49	246	18:12
2024	Dec	28	(Sat)	06:24	06:48	114	12:19	49S	17:49	246	18:13
2024	Dec	29	(Sun)	06:25	06:49	114	12:19	49S	17:50	246	18:14
2024	Dec	30	(Mon)	06:25	06:49	114	12:20	49S	17:50	246	18:14
2024	Dec	31	(Tue)	06:26	06:49	114	12:20	49S	17:51	246	18:15

Moon

Nan

Location: E100°43'55.1", N18°41'09.5", 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)	22:26	80		04:08	85S		10:35	283	
2024 Jan 02 (Tue)	23:13	86		04:49	80S		11:07	277	
2024 Jan 03 (Wed)				05:28	74S		11:38	271	
2024 Jan 04 (Thu)	00:00	92		06:07	68S		12:09	265	
2024 Jan 05 (Fri)	00:48	98		06:47	62S		12:42	259	
2024 Jan 06 (Sat)	01:39	104		07:30	57S		13:18	253	
2024 Jan 07 (Sun)	02:32	110		08:17	52S		13:58	248	
2024 Jan 08 (Mon)	03:30	115		09:09	47S		14:44	244	
2024 Jan 09 (Tue)	04:32	118		10:06	44S		15:38	241	
2024 Jan 10 (Wed)	05:36	120		11:07	43S		16:39	240	
2024 Jan 11 (Thu)	06:39	119		12:11	44S		17:45	241	
2024 Jan 12 (Fri)	07:38	117		13:14	47S		18:53	245	
2024 Jan 13 (Sat)	08:31	112		14:13	52S		20:00	250	
2024 Jan 14 (Sun)	09:18	106		15:09	58S		21:03	257	
2024 Jan 15 (Mon)	10:01	99		16:00	64S		22:04	264	
2024 Jan 16 (Tue)	10:40	92		16:49	72S		23:03	272	
2024 Jan 17 (Wed)	11:18	85		17:37	79S		24:00	279	
2024 Jan 18 (Thu)	11:57	78		18:25	85S				
2024 Jan 19 (Fri)	12:37	72		19:14	91N		00:57	285	
2024 Jan 20 (Sat)	13:20	67		20:06	86N		01:56	291	
2024 Jan 21 (Sun)	14:08	63		20:59	83N		02:55	296	
2024 Jan 22 (Mon)	14:59	61		21:55	81N		03:54	299	
2024 Jan 23 (Tue)	15:53	60		22:50	81N		04:51	300	

2024	Jan	24	(Wed)	16:49	61	23:43	83N	05:45	299
2024	Jan	25	(Thu)	17:45	64			06:35	297
2024	Jan	26	(Fri)	18:39	68	00:34	86N	07:19	294
2024	Jan	27	(Sat)	19:31	73	01:21	90N	07:58	290
2024	Jan	28	(Sun)	20:20	78	02:04	87S	08:34	284
2024	Jan	29	(Mon)	21:08	84	02:46	82S	09:07	279
2024	Jan	30	(Tue)	21:55	90	03:25	76S	09:38	273
2024	Jan	31	(Wed)	22:42	96	04:04	70S	10:09	267
2024	Feb	01	(Thu)	23:30	102	04:43	64S	10:40	261
2024	Feb	02	(Fri)			05:24	59S	11:14	255
2024	Feb	03	(Sat)	00:21	108	06:08	53S	11:51	250
2024	Feb	04	(Sun)	01:16	113	06:56	49S	12:33	245
2024	Feb	05	(Mon)	02:14	117	07:49	45S	13:22	242
2024	Feb	06	(Tue)	03:15	119	08:47	43S	14:18	240
2024	Feb	07	(Wed)	04:18	120	09:49	43S	15:21	240
2024	Feb	08	(Thu)	05:19	119	10:52	45S	16:28	243
2024	Feb	09	(Fri)	06:15	115	11:54	49S	17:37	247
2024	Feb	10	(Sat)	07:06	109	12:53	54S	18:44	254
2024	Feb	11	(Sun)	07:52	103	13:48	61S	19:48	261
2024	Feb	12	(Mon)	08:34	95	14:39	69S	20:49	269
2024	Feb	13	(Tue)	09:14	88	15:29	76S	21:49	276
2024	Feb	14	(Wed)	09:54	80	16:19	83S	22:49	283
2024	Feb	15	(Thu)	10:35	74	17:09	89S	23:49	290
2024	Feb	16	(Fri)	11:18	68	18:01	87N		
2024	Feb	17	(Sat)	12:05	64	18:55	83N	00:49	295
2024	Feb	18	(Sun)	12:55	61	19:50	81N	01:49	298
2024	Feb	19	(Mon)	13:49	60	20:46	81N	02:47	300
2024	Feb	20	(Tue)	14:44	61	21:39	82N	03:42	300
2024	Feb	21	(Wed)	15:40	63	22:30	84N	04:32	298
2024	Feb	22	(Thu)	16:34	66	23:18	88N	05:18	295
2024	Feb	23	(Fri)	17:26	71			05:58	291
2024	Feb	24	(Sat)	18:16	76	00:02	89S	06:35	286
2024	Feb	25	(Sun)	19:04	82	00:44	83S	07:08	281
2024	Feb	26	(Mon)	19:51	88	01:24	78S	07:40	275
2024	Feb	27	(Tue)	20:38	94	02:03	72S	08:10	269
2024	Feb	28	(Wed)	21:26	100	02:42	66S	08:41	263
2024	Feb	29	(Thu)	22:15	106	03:22	60S	09:14	257
2024	Mar	01	(Fri)	23:08	111	04:04	55S	09:49	251
2024	Mar	02	(Sat)			04:50	50S	10:29	247
2024	Mar	03	(Sun)	00:03	116	05:40	46S	11:14	243
2024	Mar	04	(Mon)	01:02	119	06:34	44S	12:05	240
2024	Mar	05	(Tue)	02:02	120	07:32	43S	13:03	240
2024	Mar	06	(Wed)	03:02	120	08:33	44S	14:06	241
2024	Mar	07	(Thu)	03:59	117	09:34	47S	15:13	245
2024	Mar	08	(Fri)	04:51	113	10:33	51S	16:19	250
2024	Mar	09	(Sat)	05:39	107	11:30	57S	17:25	257
2024	Mar	10	(Sun)	06:23	99	12:23	65S	18:28	264
2024	Mar	11	(Mon)	07:05	92	13:15	72S	19:30	272
2024	Mar	12	(Tue)	07:46	84	14:06	80S	20:32	280
2024	Mar	13	(Wed)	08:27	76	14:58	87S	21:34	287
2024	Mar	14	(Thu)	09:11	70	15:51	89N	22:37	293
2024	Mar	15	(Fri)	09:58	65	16:47	85N	23:39	297
2024	Mar	16	(Sat)	10:49	62	17:43	82N		
2024	Mar	17	(Sun)	11:42	60	18:40	81N	00:40	300
2024	Mar	18	(Mon)	12:38	60	19:35	81N	01:37	300
2024	Mar	19	(Tue)	13:34	62	20:27	83N	02:30	299
2024	Mar	20	(Wed)	14:29	65	21:16	87N	03:17	297
2024	Mar	21	(Thu)	15:22	69	22:01	90S	03:58	293
2024	Mar	22	(Fri)	16:12	75	22:43	85S	04:36	288
2024	Mar	23	(Sat)	17:01	80	23:23	80S	05:10	283
2024	Mar	24	(Sun)	17:48	86			05:42	277
2024	Mar	25	(Mon)	18:35	92	00:02	74S	06:13	271
2024	Mar	26	(Tue)	19:23	99	00:41	68S	06:44	265
2024	Mar	27	(Wed)	20:12	104	01:21	62S	07:16	259
2024	Mar	28	(Thu)	21:03	110	02:03	57S	07:50	253
2024	Mar	29	(Fri)	21:58	114	02:47	52S	08:28	248
2024	Mar	30	(Sat)	22:55	118	03:36	48S	09:11	244
2024	Mar	31	(Sun)	23:54	120	04:28	44S	09:59	241
2024	Apr	01	(Mon)			05:24	43S	10:54	240
2024	Apr	02	(Tue)	00:52	120	06:22	43S	11:53	240
2024	Apr	03	(Wed)	01:48	119	07:21	45S	12:56	243
2024	Apr	04	(Thu)	02:41	115	08:19	49S	14:01	247

2024 Apr 05 (Fri)	03:29 110	09:15 54S	15:05 253
2024 Apr 06 (Sat)	04:13 103	10:08 61S	16:07 260
2024 Apr 07 (Sun)	04:55 96	10:59 68S	17:09 268
2024 Apr 08 (Mon)	05:35 88	11:50 76S	18:10 276
2024 Apr 09 (Tue)	06:16 80	12:42 83S	19:13 284
2024 Apr 10 (Wed)	07:00 73	13:36 90S	20:17 290
2024 Apr 11 (Thu)	07:46 67	14:31 86N	21:21 295
2024 Apr 12 (Fri)	08:37 63	15:29 83N	22:25 299
2024 Apr 13 (Sat)	09:31 60	16:28 81N	23:26 300
2024 Apr 14 (Sun)	10:28 60	17:26 81N	
2024 Apr 15 (Mon)	11:26 61	18:20 82N	00:22 300
2024 Apr 16 (Tue)	12:22 64	19:11 85N	01:12 298
2024 Apr 17 (Wed)	13:16 68	19:58 90N	01:57 294
2024 Apr 18 (Thu)	14:08 73	20:41 87S	02:36 290
2024 Apr 19 (Fri)	14:57 78	21:22 82S	03:11 285
2024 Apr 20 (Sat)	15:44 84	22:02 76S	03:43 279
2024 Apr 21 (Sun)	16:31 90	22:40 70S	04:15 273
2024 Apr 22 (Mon)	17:19 96	23:20 64S	04:45 267
2024 Apr 23 (Tue)	18:08 102		05:17 261
2024 Apr 24 (Wed)	18:59 108	00:01 58S	05:51 255
2024 Apr 25 (Thu)	19:53 113	00:45 53S	06:28 250
2024 Apr 26 (Fri)	20:50 117	01:32 49S	07:09 245
2024 Apr 27 (Sat)	21:48 119	02:24 45S	07:56 242
2024 Apr 28 (Sun)	22:47 120	03:19 43S	08:49 240
2024 Apr 29 (Mon)	23:43 119	04:17 43S	09:47 240
2024 Apr 30 (Tue)		05:15 44S	10:48 242
2024 May 01 (Wed)	00:36 116	06:12 47S	11:51 246
2024 May 02 (Thu)	01:24 112	07:07 52S	12:53 251
2024 May 03 (Fri)	02:08 106	07:59 58S	13:54 257
2024 May 04 (Sat)	02:49 99	08:49 65S	14:54 265
2024 May 05 (Sun)	03:29 91	09:38 72S	15:53 272
2024 May 06 (Mon)	04:08 84	10:28 79S	16:54 280
2024 May 07 (Tue)	04:49 77	11:20 86S	17:56 287
2024 May 08 (Wed)	05:34 70	12:14 89N	19:00 293
2024 May 09 (Thu)	06:22 65	13:12 84N	20:05 297
2024 May 10 (Fri)	07:16 61	14:12 82N	21:09 300
2024 May 11 (Sat)	08:13 60	15:11 81N	22:09 300
2024 May 12 (Sun)	09:12 60	16:09 82N	23:03 299
2024 May 13 (Mon)	10:11 63	17:03 84N	23:51 296
2024 May 14 (Tue)	11:07 66	17:52 88N	
2024 May 15 (Wed)	12:00 71	18:37 89S	00:33 291
2024 May 16 (Thu)	12:51 76	19:19 84S	01:10 286
2024 May 17 (Fri)	13:39 82	19:59 78S	01:43 281
2024 May 18 (Sat)	14:26 88	20:38 72S	02:15 275
2024 May 19 (Sun)	15:13 94	21:17 66S	02:46 269
2024 May 20 (Mon)	16:01 100	21:58 61S	03:17 263
2024 May 21 (Tue)	16:52 106	22:41 55S	03:50 257
2024 May 22 (Wed)	17:45 111	23:27 50S	04:26 251
2024 May 23 (Thu)	18:42 116		05:06 247
2024 May 24 (Fri)	19:41 119	00:18 46S	05:52 243
2024 May 25 (Sat)	20:40 120	01:13 44S	06:44 240
2024 May 26 (Sun)	21:39 120	02:11 43S	07:41 240
2024 May 27 (Mon)	22:33 117	03:10 44S	08:42 241
2024 May 28 (Tue)	23:22 113	04:08 46S	09:45 244
2024 May 29 (Wed)		05:03 51S	10:47 249
2024 May 30 (Thu)	00:07 108	05:55 56S	11:47 255
2024 May 31 (Fri)	00:48 101	06:45 63S	12:46 262
2024 Jun 01 (Sat)	01:27 94	07:33 70S	13:44 270
2024 Jun 02 (Sun)	02:05 87	08:21 77S	14:42 277
2024 Jun 03 (Mon)	02:44 79	09:10 84S	15:42 284
2024 Jun 04 (Tue)	03:26 73	10:02 90S	16:43 290
2024 Jun 05 (Wed)	04:12 67	10:57 86N	17:47 295
2024 Jun 06 (Thu)	05:02 63	11:55 83N	18:51 299
2024 Jun 07 (Fri)	05:58 60	12:55 81N	19:53 300
2024 Jun 08 (Sat)	06:57 60	13:54 81N	20:51 299
2024 Jun 09 (Sun)	07:57 62	14:51 83N	21:42 297
2024 Jun 10 (Mon)	08:55 65	15:43 86N	22:27 293
2024 Jun 11 (Tue)	09:50 69	16:30 91N	23:06 288
2024 Jun 12 (Wed)	10:42 74	17:14 86S	23:42 283
2024 Jun 13 (Thu)	11:32 80	17:55 80S	
2024 Jun 14 (Fri)	12:19 86	18:34 74S	00:14 277
2024 Jun 15 (Sat)	13:06 92	19:13 68S	00:45 271

2024	Jun	16	(Sun)	13:54	98	19:53	63S	01:16	265
2024	Jun	17	(Mon)	14:43	104	20:35	57S	01:48	259
2024	Jun	18	(Tue)	15:35	109	21:19	52S	02:23	253
2024	Jun	19	(Wed)	16:30	114	22:08	48S	03:01	248
2024	Jun	20	(Thu)	17:28	118	23:02	45S	03:44	244
2024	Jun	21	(Fri)	18:29	120	24:00	43S	04:34	241
2024	Jun	22	(Sat)	19:29	120			05:30	240
2024	Jun	23	(Sun)	20:26	118	01:00	43S	06:32	241
2024	Jun	24	(Mon)	21:18	114	02:00	45S	07:36	243
2024	Jun	25	(Tue)	22:05	109	02:57	49S	08:40	248
2024	Jun	26	(Wed)	22:48	103	03:52	55S	09:42	254
2024	Jun	27	(Thu)	23:27	96	04:42	61S	10:41	260
2024	Jun	28	(Fri)			05:31	68S	11:39	268
2024	Jun	29	(Sat)	00:05	89	06:19	75S	12:37	275
2024	Jun	30	(Sun)	00:44	81	07:07	82S	13:35	282
2024	Jul	01	(Mon)	01:24	75	07:56	88S	14:34	289
2024	Jul	02	(Tue)	02:07	69	08:49	88N	15:36	294
2024	Jul	03	(Wed)	02:55	64	09:45	84N	16:39	298
2024	Jul	04	(Thu)	03:47	61	10:43	81N	17:41	300
2024	Jul	05	(Fri)	04:44	60	11:42	81N	18:39	300
2024	Jul	06	(Sat)	05:44	61	12:39	82N	19:33	298
2024	Jul	07	(Sun)	06:43	63	13:33	85N	20:20	295
2024	Jul	08	(Mon)	07:39	67	14:23	89N	21:02	290
2024	Jul	09	(Tue)	08:33	72	15:08	88S	21:39	285
2024	Jul	10	(Wed)	09:24	78	15:50	82S	22:13	279
2024	Jul	11	(Thu)	10:12	84	16:30	76S	22:44	273
2024	Jul	12	(Fri)	10:59	90	17:09	71S	23:15	267
2024	Jul	13	(Sat)	11:46	96	17:48	65S	23:46	261
2024	Jul	14	(Sun)	12:34	102	18:29	59S		
2024	Jul	15	(Mon)	13:24	107	19:12	54S	00:19	256
2024	Jul	16	(Tue)	14:18	112	19:58	49S	00:55	250
2024	Jul	17	(Wed)	15:14	116	20:49	46S	01:36	246
2024	Jul	18	(Thu)	16:14	119	21:45	44S	02:23	242
2024	Jul	19	(Fri)	17:14	120	22:45	43S	03:16	240
2024	Jul	20	(Sat)	18:13	119	23:46	44S	04:16	240
2024	Jul	21	(Sun)	19:09	116			05:20	242
2024	Jul	22	(Mon)	19:59	111	00:46	48S	06:25	246
2024	Jul	23	(Tue)	20:44	105	01:42	52S	07:30	251
2024	Jul	24	(Wed)	21:26	98	02:36	59S	08:32	258
2024	Jul	25	(Thu)	22:05	91	03:27	66S	09:32	265
2024	Jul	26	(Fri)	22:44	83	04:16	73S	10:31	273
2024	Jul	27	(Sat)	23:23	76	05:04	80S	11:30	280
2024	Jul	28	(Sun)			05:54	87S	12:29	287
2024	Jul	29	(Mon)	00:06	70	06:45	89N	13:30	293
2024	Jul	30	(Tue)	00:52	65	07:40	85N	14:32	297
2024	Jul	31	(Wed)	01:42	62	08:37	82N	15:33	299
2024	Aug	01	(Thu)	02:37	60	09:34	81N	16:32	300
2024	Aug	02	(Fri)	03:35	60	10:32	81N	17:27	299
2024	Aug	03	(Sat)	04:33	62	11:26	84N	18:16	296
2024	Aug	04	(Sun)	05:31	66	12:17	87N	18:59	292
2024	Aug	05	(Mon)	06:25	70	13:03	90S	19:37	287
2024	Aug	06	(Tue)	07:17	75	13:47	84S	20:12	282
2024	Aug	07	(Wed)	08:06	81	14:27	79S	20:44	276
2024	Aug	08	(Thu)	08:54	87	15:06	73S	21:15	269
2024	Aug	09	(Fri)	09:41	94	15:45	67S	21:46	263
2024	Aug	10	(Sat)	10:28	100	16:25	61S	22:18	258
2024	Aug	11	(Sun)	11:16	105	17:06	56S	22:52	252
2024	Aug	12	(Mon)	12:08	111	17:50	51S	23:30	247
2024	Aug	13	(Tue)	13:02	115	18:39	47S		
2024	Aug	14	(Wed)	13:59	118	19:31	44S	00:13	243
2024	Aug	15	(Thu)	14:58	120	20:28	43S	01:02	241
2024	Aug	16	(Fri)	15:57	120	21:28	43S	01:58	240
2024	Aug	17	(Sat)	16:54	118	22:28	46S	03:00	241
2024	Aug	18	(Sun)	17:47	114	23:27	50S	04:05	244
2024	Aug	19	(Mon)	18:35	108			05:11	248
2024	Aug	20	(Tue)	19:19	101	00:23	56S	06:15	255
2024	Aug	21	(Wed)	20:00	94	01:16	62S	07:18	262
2024	Aug	22	(Thu)	20:40	86	02:07	70S	08:19	270
2024	Aug	23	(Fri)	21:21	79	02:57	77S	09:20	278
2024	Aug	24	(Sat)	22:03	72	03:48	84S	10:21	285
2024	Aug	25	(Sun)	22:49	66	04:40	91S	11:23	291
2024	Aug	26	(Mon)	23:38	62	05:35	86N	12:25	296

2024 Aug 27 (Tue)		06:32 82N	13:28 299
2024 Aug 28 (Wed)	00:32 60	07:30 81N	14:28 300
2024 Aug 29 (Thu)	01:29 60	08:27 81N	15:23 300
2024 Aug 30 (Fri)	02:27 61	09:22 83N	16:13 297
2024 Aug 31 (Sat)	03:25 64	10:13 86N	16:58 294
2024 Sep 01 (Sun)	04:20 68	11:01 90N	17:37 289
2024 Sep 02 (Mon)	05:12 74	11:44 86S	18:13 283
2024 Sep 03 (Tue)	06:02 79	12:26 81S	18:45 278
2024 Sep 04 (Wed)	06:50 85	13:05 75S	19:16 272
2024 Sep 05 (Thu)	07:36 92	13:44 69S	19:47 265
2024 Sep 06 (Fri)	08:23 98	14:23 63S	20:18 259
2024 Sep 07 (Sat)	09:11 104	15:03 58S	20:51 254
2024 Sep 08 (Sun)	10:01 109	15:46 53S	21:28 249
2024 Sep 09 (Mon)	10:53 114	16:32 48S	22:08 245
2024 Sep 10 (Tue)	11:48 117	17:22 45S	22:54 241
2024 Sep 11 (Wed)	12:46 120	18:16 43S	23:45 240
2024 Sep 12 (Thu)	13:43 120	19:13 43S	
2024 Sep 13 (Fri)	14:40 119	20:11 44S	00:43 240
2024 Sep 14 (Sat)	15:33 116	21:10 47S	01:45 242
2024 Sep 15 (Sun)	16:23 111	22:06 52S	02:49 246
2024 Sep 16 (Mon)	17:08 105	23:00 59S	03:54 251
2024 Sep 17 (Tue)	17:51 98	23:53 66S	04:57 258
2024 Sep 18 (Wed)	18:32 90		06:00 266
2024 Sep 19 (Thu)	19:13 82	00:44 74S	07:02 274
2024 Sep 20 (Fri)	19:56 75	01:36 81S	08:04 282
2024 Sep 21 (Sat)	20:42 68	02:29 88S	09:08 289
2024 Sep 22 (Sun)	21:31 64	03:25 88N	10:13 294
2024 Sep 23 (Mon)	22:26 61	04:23 83N	11:18 298
2024 Sep 24 (Tue)	23:23 60	05:22 81N	12:21 300
2024 Sep 25 (Wed)		06:21 81N	13:19 300
2024 Sep 26 (Thu)	00:22 60	07:18 82N	14:11 298
2024 Sep 27 (Fri)	01:20 63	08:10 85N	14:57 295
2024 Sep 28 (Sat)	02:15 67	08:59 89N	15:38 291
2024 Sep 29 (Sun)	03:08 72	09:43 88S	16:14 285
2024 Sep 30 (Mon)	03:58 77	10:25 82S	16:48 280
2024 Oct 01 (Tue)	04:47 83	11:05 77S	17:19 274
2024 Oct 02 (Wed)	05:34 89	11:44 71S	17:49 267
2024 Oct 03 (Thu)	06:20 96	12:22 65S	18:20 261
2024 Oct 04 (Fri)	07:08 102	13:02 59S	18:53 256
2024 Oct 05 (Sat)	07:57 107	13:44 54S	19:28 250
2024 Oct 06 (Sun)	08:49 112	14:29 50S	20:07 246
2024 Oct 07 (Mon)	09:42 116	15:17 46S	20:50 242
2024 Oct 08 (Tue)	10:38 119	16:09 44S	21:39 240
2024 Oct 09 (Wed)	11:35 120	17:04 43S	22:33 240
2024 Oct 10 (Thu)	12:31 120	18:01 43S	23:32 241
2024 Oct 11 (Fri)	13:24 118	18:57 46S	
2024 Oct 12 (Sat)	14:13 114	19:52 50S	00:33 244
2024 Oct 13 (Sun)	14:58 108	20:46 55S	01:35 248
2024 Oct 14 (Mon)	15:41 102	21:37 62S	02:37 255
2024 Oct 15 (Tue)	16:22 94	22:28 70S	03:38 262
2024 Oct 16 (Wed)	17:02 86	23:19 77S	04:40 270
2024 Oct 17 (Thu)	17:44 79		05:42 278
2024 Oct 18 (Fri)	18:29 72	00:12 85S	06:46 285
2024 Oct 19 (Sat)	19:18 66	01:08 90N	07:52 292
2024 Oct 20 (Sun)	20:13 62	02:07 85N	08:59 297
2024 Oct 21 (Mon)	21:11 60	03:08 82N	10:06 300
2024 Oct 22 (Tue)	22:11 60	04:10 81N	11:08 300
2024 Oct 23 (Wed)	23:11 62	05:09 81N	12:05 299
2024 Oct 24 (Thu)		06:05 84N	12:54 296
2024 Oct 25 (Fri)	00:09 66	06:55 87N	13:37 292
2024 Oct 26 (Sat)	01:04 70	07:42 90S	14:15 287
2024 Oct 27 (Sun)	01:55 76	08:24 84S	14:49 281
2024 Oct 28 (Mon)	02:43 81	09:04 79S	15:21 276
2024 Oct 29 (Tue)	03:31 87	09:43 73S	15:52 269
2024 Oct 30 (Wed)	04:17 94	10:22 67S	16:23 263
2024 Oct 31 (Thu)	05:05 100	11:01 61S	16:55 258
2024 Nov 01 (Fri)	05:53 105	11:43 56S	17:29 252
2024 Nov 02 (Sat)	06:44 111	12:27 51S	18:06 247
2024 Nov 03 (Sun)	07:38 115	13:14 47S	18:49 243
2024 Nov 04 (Mon)	08:33 118	14:05 44S	19:36 241
2024 Nov 05 (Tue)	09:30 120	15:00 43S	20:29 240
2024 Nov 06 (Wed)	10:26 120	15:55 43S	21:26 240

2024 Nov 07 (Thu)	11:19 119	16:51 45S	22:25 243
2024 Nov 08 (Fri)	12:08 115	17:45 48S	23:25 247
2024 Nov 09 (Sat)	12:53 111	18:37 53S	
2024 Nov 10 (Sun)	13:35 104	19:28 59S	00:25 252
2024 Nov 11 (Mon)	14:15 98	20:17 66S	01:24 259
2024 Nov 12 (Tue)	14:54 90	21:06 73S	02:23 266
2024 Nov 13 (Wed)	15:34 82	21:56 81S	03:22 274
2024 Nov 14 (Thu)	16:16 75	22:49 88S	04:24 281
2024 Nov 15 (Fri)	17:03 69	23:47 88N	05:28 288
2024 Nov 16 (Sat)	17:55 64		06:35 294
2024 Nov 17 (Sun)	18:53 61	00:47 83N	07:43 298
2024 Nov 18 (Mon)	19:54 60	01:50 81N	08:49 300
2024 Nov 19 (Tue)	20:57 61	02:53 81N	09:51 300
2024 Nov 20 (Wed)	21:57 64	03:52 83N	10:45 297
2024 Nov 21 (Thu)	22:55 68	04:47 86N	11:32 294
2024 Nov 22 (Fri)	23:48 74	05:36 90N	12:13 289
2024 Nov 23 (Sat)		06:21 86S	12:49 283
2024 Nov 24 (Sun)	00:38 79	07:02 81S	13:22 278
2024 Nov 25 (Mon)	01:26 85	07:42 75S	13:53 272
2024 Nov 26 (Tue)	02:13 92	08:20 69S	14:23 265
2024 Nov 27 (Wed)	03:00 98	08:59 63S	14:55 260
2024 Nov 28 (Thu)	03:48 103	09:40 58S	15:28 254
2024 Nov 29 (Fri)	04:38 109	10:23 53S	16:05 249
2024 Nov 30 (Sat)	05:31 114	11:10 48S	16:46 245
2024 Dec 01 (Sun)	06:27 117	12:00 45S	17:32 242
2024 Dec 02 (Mon)	07:24 120	12:54 43S	18:24 240
2024 Dec 03 (Tue)	08:21 120	13:50 43S	19:20 240
2024 Dec 04 (Wed)	09:15 119	14:47 44S	20:20 242
2024 Dec 05 (Thu)	10:06 116	15:42 47S	21:20 246
2024 Dec 06 (Fri)	10:52 112	16:34 52S	22:20 251
2024 Dec 07 (Sat)	11:34 106	17:24 58S	23:18 257
2024 Dec 08 (Sun)	12:14 100	18:12 64S	
2024 Dec 09 (Mon)	12:52 93	18:59 71S	00:15 264
2024 Dec 10 (Tue)	13:30 85	19:47 78S	01:12 271
2024 Dec 11 (Wed)	14:09 78	20:37 85S	02:10 278
2024 Dec 12 (Thu)	14:52 72	21:31 90N	03:11 285
2024 Dec 13 (Fri)	15:40 66	22:28 85N	04:14 292
2024 Dec 14 (Sat)	16:34 62	23:30 82N	05:21 296
2024 Dec 15 (Sun)	17:34 60		06:27 299
2024 Dec 16 (Mon)	18:37 60	00:33 81N	07:32 300
2024 Dec 17 (Tue)	19:40 63	01:35 82N	08:30 299
2024 Dec 18 (Wed)	20:40 66	02:33 84N	09:22 295
2024 Dec 19 (Thu)	21:37 71	03:25 88N	10:06 291
2024 Dec 20 (Fri)	22:29 77	04:13 88S	10:45 286
2024 Dec 21 (Sat)	23:19 83	04:57 83S	11:20 280
2024 Dec 22 (Sun)		05:37 77S	11:52 274
2024 Dec 23 (Mon)	00:06 89	06:17 71S	12:23 268
2024 Dec 24 (Tue)	00:53 95	06:56 65S	12:54 262
2024 Dec 25 (Wed)	01:41 101	07:35 59S	13:26 256
2024 Dec 26 (Thu)	02:30 107	08:17 54S	14:02 251
2024 Dec 27 (Fri)	03:22 112	09:03 50S	14:41 246
2024 Dec 28 (Sat)	04:16 116	09:52 46S	15:25 243
2024 Dec 29 (Sun)	05:13 119	10:45 44S	16:15 240
2024 Dec 30 (Mon)	06:11 120	11:41 43S	17:11 240
2024 Dec 31 (Tue)	07:07 120	12:38 44S	18:10 241