

Sun

VTNC

Location: E 98°52'00.0", N18°45'00.0", 1035m
(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)	06:06	06:57 114		12:28 49S	17:59 246		18:50
2024 Jan 02 (Tue)	06:06	06:57 114		12:28 49S	17:59 246		18:50
2024 Jan 03 (Wed)	06:07	06:58 114		12:29 49S	18:00 246		18:51
2024 Jan 04 (Thu)	06:07	06:58 114		12:29 49S	18:00 246		18:51
2024 Jan 05 (Fri)	06:07	06:58 114		12:30 49S	18:01 246		18:52
2024 Jan 06 (Sat)	06:08	06:59 114		12:30 49S	18:02 246		18:52
2024 Jan 07 (Sun)	06:08	06:59 113		12:30 50S	18:02 247		18:53
2024 Jan 08 (Mon)	06:08	06:59 113		12:31 50S	18:03 247		18:54
2024 Jan 09 (Tue)	06:09	06:59 113		12:31 50S	18:04 247		18:54
2024 Jan 10 (Wed)	06:09	06:59 113		12:32 50S	18:04 247		18:55
2024 Jan 11 (Thu)	06:09	07:00 113		12:32 50S	18:05 247		18:55
2024 Jan 12 (Fri)	06:09	07:00 113		12:33 50S	18:05 247		18:56
2024 Jan 13 (Sat)	06:09	07:00 113		12:33 50S	18:06 248		18:56
2024 Jan 14 (Sun)	06:10	07:00 112		12:33 51S	18:07 248		18:57
2024 Jan 15 (Mon)	06:10	07:00 112		12:34 51S	18:07 248		18:58
2024 Jan 16 (Tue)	06:10	07:00 112		12:34 51S	18:08 248		18:58
2024 Jan 17 (Wed)	06:10	07:00 112		12:34 51S	18:09 248		18:59
2024 Jan 18 (Thu)	06:10	07:00 112		12:35 51S	18:09 248		18:59
2024 Jan 19 (Fri)	06:10	07:00 111		12:35 52S	18:10 249		19:00
2024 Jan 20 (Sat)	06:10	07:00 111		12:35 52S	18:11 249		19:00
2024 Jan 21 (Sun)	06:10	07:00 111		12:36 52S	18:11 249		19:01
2024 Jan 22 (Mon)	06:10	07:00 111		12:36 52S	18:12 249		19:02
2024 Jan 23 (Tue)	06:10	07:00 110		12:36 52S	18:12 250		19:02
2024 Jan 24 (Wed)	06:10	07:00 110		12:36 53S	18:13 250		19:03
2024 Jan 25 (Thu)	06:10	07:00 110		12:37 53S	18:14 250		19:03
2024 Jan 26 (Fri)	06:10	07:00 110		12:37 53S	18:14 250		19:04
2024 Jan 27 (Sat)	06:10	07:00 109		12:37 53S	18:15 251		19:04
2024 Jan 28 (Sun)	06:10	06:59 109		12:37 54S	18:15 251		19:05
2024 Jan 29 (Mon)	06:10	06:59 109		12:37 54S	18:16 251		19:05
2024 Jan 30 (Tue)	06:10	06:59 109		12:38 54S	18:17 252		19:06
2024 Jan 31 (Wed)	06:10	06:59 108		12:38 54S	18:17 252		19:06
2024 Feb 01 (Thu)	06:09	06:59 108		12:38 55S	18:18 252		19:07
2024 Feb 02 (Fri)	06:09	06:58 108		12:38 55S	18:18 252		19:07
2024 Feb 03 (Sat)	06:09	06:58 107		12:38 55S	18:19 253		19:08
2024 Feb 04 (Sun)	06:09	06:58 107		12:38 56S	18:19 253		19:08
2024 Feb 05 (Mon)	06:08	06:57 107		12:38 56S	18:20 253		19:09
2024 Feb 06 (Tue)	06:08	06:57 106		12:39 56S	18:20 254		19:09
2024 Feb 07 (Wed)	06:08	06:57 106		12:39 56S	18:21 254		19:09
2024 Feb 08 (Thu)	06:08	06:56 106		12:39 57S	18:21 254		19:10
2024 Feb 09 (Fri)	06:07	06:56 105		12:39 57S	18:22 255		19:10
2024 Feb 10 (Sat)	06:07	06:55 105		12:39 57S	18:22 255		19:11
2024 Feb 11 (Sun)	06:06	06:55 105		12:39 58S	18:23 255		19:11
2024 Feb 12 (Mon)	06:06	06:54 104		12:39 58S	18:23 256		19:12
2024 Feb 13 (Tue)	06:06	06:54 104		12:39 58S	18:24 256		19:12
2024 Feb 14 (Wed)	06:05	06:53 104		12:39 59S	18:24 256		19:12
2024 Feb 15 (Thu)	06:05	06:53 103		12:39 59S	18:25 257		19:13
2024 Feb 16 (Fri)	06:04	06:52 103		12:39 59S	18:25 257		19:13
2024 Feb 17 (Sat)	06:04	06:52 103		12:39 60S	18:26 258		19:14
2024 Feb 18 (Sun)	06:03	06:51 102		12:38 60S	18:26 258		19:14
2024 Feb 19 (Mon)	06:03	06:51 102		12:38 61S	18:26 258		19:14
2024 Feb 20 (Tue)	06:02	06:50 102		12:38 61S	18:27 259		19:15
2024 Feb 21 (Wed)	06:02	06:50 101		12:38 61S	18:27 259		19:15
2024 Feb 22 (Thu)	06:01	06:49 101		12:38 62S	18:28 259		19:15
2024 Feb 23 (Fri)	06:01	06:48 100		12:38 62S	18:28 260		19:16
2024 Feb 24 (Sat)	06:00	06:48 100		12:38 62S	18:28 260		19:16

2024	Feb	25	(Sun)	05:59	06:47	100	12:38	63S	18:29	261	19:16
2024	Feb	26	(Mon)	05:59	06:46	99	12:38	63S	18:29	261	19:17
2024	Feb	27	(Tue)	05:58	06:46	99	12:37	63S	18:29	261	19:17
2024	Feb	28	(Wed)	05:57	06:45	98	12:37	64S	18:30	262	19:17
2024	Feb	29	(Thu)	05:57	06:44	98	12:37	64S	18:30	262	19:17
2024	Mar	01	(Fri)	05:56	06:44	98	12:37	65S	18:30	263	19:18
2024	Mar	02	(Sat)	05:55	06:43	97	12:37	65S	18:31	263	19:18
2024	Mar	03	(Sun)	05:55	06:42	97	12:36	65S	18:31	263	19:18
2024	Mar	04	(Mon)	05:54	06:41	96	12:36	66S	18:31	264	19:19
2024	Mar	05	(Tue)	05:53	06:41	96	12:36	66S	18:32	264	19:19
2024	Mar	06	(Wed)	05:53	06:40	96	12:36	66S	18:32	265	19:19
2024	Mar	07	(Thu)	05:52	06:39	95	12:35	67S	18:32	265	19:19
2024	Mar	08	(Fri)	05:51	06:38	95	12:35	67S	18:32	265	19:20
2024	Mar	09	(Sat)	05:50	06:38	94	12:35	68S	18:33	266	19:20
2024	Mar	10	(Sun)	05:50	06:37	94	12:35	68S	18:33	266	19:20
2024	Mar	11	(Mon)	05:49	06:36	94	12:34	68S	18:33	267	19:20
2024	Mar	12	(Tue)	05:48	06:35	93	12:34	69S	18:34	267	19:21
2024	Mar	13	(Wed)	05:47	06:34	93	12:34	69S	18:34	268	19:21
2024	Mar	14	(Thu)	05:46	06:34	92	12:34	70S	18:34	268	19:21
2024	Mar	15	(Fri)	05:46	06:33	92	12:33	70S	18:34	268	19:22
2024	Mar	16	(Sat)	05:45	06:32	91	12:33	70S	18:35	269	19:22
2024	Mar	17	(Sun)	05:44	06:31	91	12:33	71S	18:35	269	19:22
2024	Mar	18	(Mon)	05:43	06:30	91	12:33	71S	18:35	270	19:22
2024	Mar	19	(Tue)	05:42	06:29	90	12:32	72S	18:35	270	19:23
2024	Mar	20	(Wed)	05:41	06:29	90	12:32	72S	18:36	270	19:23
2024	Mar	21	(Thu)	05:41	06:28	89	12:32	72S	18:36	271	19:23
2024	Mar	22	(Fri)	05:40	06:27	89	12:31	73S	18:36	271	19:23
2024	Mar	23	(Sat)	05:39	06:26	89	12:31	73S	18:36	272	19:24
2024	Mar	24	(Sun)	05:38	06:25	88	12:31	74S	18:37	272	19:24
2024	Mar	25	(Mon)	05:37	06:24	88	12:30	74S	18:37	273	19:24
2024	Mar	26	(Tue)	05:36	06:24	87	12:30	74S	18:37	273	19:24
2024	Mar	27	(Wed)	05:35	06:23	87	12:30	75S	18:37	273	19:25
2024	Mar	28	(Thu)	05:35	06:22	86	12:30	75S	18:37	274	19:25
2024	Mar	29	(Fri)	05:34	06:21	86	12:29	76S	18:38	274	19:25
2024	Mar	30	(Sat)	05:33	06:20	86	12:29	76S	18:38	275	19:25
2024	Mar	31	(Sun)	05:32	06:19	85	12:29	76S	18:38	275	19:26
2024	Apr	01	(Mon)	05:31	06:19	85	12:28	77S	18:38	275	19:26
2024	Apr	02	(Tue)	05:30	06:18	84	12:28	77S	18:39	276	19:26
2024	Apr	03	(Wed)	05:29	06:17	84	12:28	77S	18:39	276	19:26
2024	Apr	04	(Thu)	05:28	06:16	84	12:27	78S	18:39	277	19:27
2024	Apr	05	(Fri)	05:28	06:15	83	12:27	78S	18:39	277	19:27
2024	Apr	06	(Sat)	05:27	06:14	83	12:27	79S	18:40	277	19:27
2024	Apr	07	(Sun)	05:26	06:14	82	12:27	79S	18:40	278	19:28
2024	Apr	08	(Mon)	05:25	06:13	82	12:26	79S	18:40	278	19:28
2024	Apr	09	(Tue)	05:24	06:12	82	12:26	80S	18:40	279	19:28
2024	Apr	10	(Wed)	05:23	06:11	81	12:26	80S	18:41	279	19:29
2024	Apr	11	(Thu)	05:22	06:11	81	12:26	80S	18:41	279	19:29
2024	Apr	12	(Fri)	05:22	06:10	80	12:25	81S	18:41	280	19:29
2024	Apr	13	(Sat)	05:21	06:09	80	12:25	81S	18:41	280	19:30
2024	Apr	14	(Sun)	05:20	06:08	80	12:25	82S	18:42	281	19:30
2024	Apr	15	(Mon)	05:19	06:07	79	12:25	82S	18:42	281	19:30
2024	Apr	16	(Tue)	05:18	06:07	79	12:24	82S	18:42	281	19:31
2024	Apr	17	(Wed)	05:18	06:06	79	12:24	83S	18:42	282	19:31
2024	Apr	18	(Thu)	05:17	06:05	78	12:24	83S	18:43	282	19:31
2024	Apr	19	(Fri)	05:16	06:05	78	12:24	83S	18:43	282	19:32
2024	Apr	20	(Sat)	05:15	06:04	77	12:23	84S	18:43	283	19:32
2024	Apr	21	(Sun)	05:14	06:03	77	12:23	84S	18:43	283	19:32
2024	Apr	22	(Mon)	05:14	06:03	77	12:23	84S	18:44	283	19:33
2024	Apr	23	(Tue)	05:13	06:02	76	12:23	85S	18:44	284	19:33
2024	Apr	24	(Wed)	05:12	06:01	76	12:23	85S	18:44	284	19:34
2024	Apr	25	(Thu)	05:11	06:01	76	12:22	85S	18:45	285	19:34
2024	Apr	26	(Fri)	05:11	06:00	75	12:22	86S	18:45	285	19:34
2024	Apr	27	(Sat)	05:10	05:59	75	12:22	86S	18:45	285	19:35
2024	Apr	28	(Sun)	05:09	05:59	75	12:22	86S	18:46	286	19:35
2024	Apr	29	(Mon)	05:09	05:58	74	12:22	87S	18:46	286	19:36
2024	Apr	30	(Tue)	05:08	05:57	74	12:22	87S	18:46	286	19:36
2024	May	01	(Wed)	05:07	05:57	74	12:22	87S	18:47	286	19:36

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

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

2024 Sep 13 (Fri)	05:24	06:12	86	12:20	76S	18:29	274	19:16
2024 Sep 14 (Sat)	05:25	06:12	86	12:20	75S	18:28	274	19:15
2024 Sep 15 (Sun)	05:25	06:12	87	12:20	75S	18:27	273	19:14
2024 Sep 16 (Mon)	05:25	06:12	87	12:19	74S	18:26	273	19:13
2024 Sep 17 (Tue)	05:25	06:13	87	12:19	74S	18:25	272	19:12
2024 Sep 18 (Wed)	05:25	06:13	88	12:19	74S	18:24	272	19:11
2024 Sep 19 (Thu)	05:26	06:13	88	12:18	73S	18:23	272	19:10
2024 Sep 20 (Fri)	05:26	06:13	89	12:18	73S	18:22	271	19:10
2024 Sep 21 (Sat)	05:26	06:13	89	12:18	72S	18:21	271	19:09
2024 Sep 22 (Sun)	05:26	06:13	89	12:17	72S	18:21	270	19:08
2024 Sep 23 (Mon)	05:26	06:14	90	12:17	72S	18:20	270	19:07
2024 Sep 24 (Tue)	05:27	06:14	90	12:16	71S	18:19	269	19:06
2024 Sep 25 (Wed)	05:27	06:14	91	12:16	71S	18:18	269	19:05
2024 Sep 26 (Thu)	05:27	06:14	91	12:16	71S	18:17	269	19:04
2024 Sep 27 (Fri)	05:27	06:14	92	12:15	70S	18:16	268	19:03
2024 Sep 28 (Sat)	05:27	06:15	92	12:15	70S	18:15	268	19:03
2024 Sep 29 (Sun)	05:28	06:15	92	12:15	69S	18:15	267	19:02
2024 Sep 30 (Mon)	05:28	06:15	93	12:14	69S	18:14	267	19:01
2024 Oct 01 (Tue)	05:28	06:15	93	12:14	69S	18:13	267	19:00
2024 Oct 02 (Wed)	05:28	06:15	94	12:14	68S	18:12	266	18:59
2024 Oct 03 (Thu)	05:28	06:16	94	12:13	68S	18:11	266	18:58
2024 Oct 04 (Fri)	05:29	06:16	94	12:13	67S	18:10	265	18:58
2024 Oct 05 (Sat)	05:29	06:16	95	12:13	67S	18:09	265	18:57
2024 Oct 06 (Sun)	05:29	06:16	95	12:13	67S	18:09	265	18:56
2024 Oct 07 (Mon)	05:29	06:16	96	12:12	66S	18:08	264	18:55
2024 Oct 08 (Tue)	05:29	06:17	96	12:12	66S	18:07	264	18:54
2024 Oct 09 (Wed)	05:30	06:17	96	12:12	66S	18:06	263	18:54
2024 Oct 10 (Thu)	05:30	06:17	97	12:11	65S	18:05	263	18:53
2024 Oct 11 (Fri)	05:30	06:17	97	12:11	65S	18:05	263	18:52
2024 Oct 12 (Sat)	05:30	06:18	98	12:11	64S	18:04	262	18:51
2024 Oct 13 (Sun)	05:31	06:18	98	12:11	64S	18:03	262	18:51
2024 Oct 14 (Mon)	05:31	06:18	98	12:10	64S	18:02	261	18:50
2024 Oct 15 (Tue)	05:31	06:19	99	12:10	63S	18:02	261	18:49
2024 Oct 16 (Wed)	05:31	06:19	99	12:10	63S	18:01	261	18:49
2024 Oct 17 (Thu)	05:32	06:19	100	12:10	63S	18:00	260	18:48
2024 Oct 18 (Fri)	05:32	06:19	100	12:10	62S	18:00	260	18:47
2024 Oct 19 (Sat)	05:32	06:20	100	12:09	62S	17:59	259	18:47
2024 Oct 20 (Sun)	05:32	06:20	101	12:09	61S	17:58	259	18:46
2024 Oct 21 (Mon)	05:33	06:20	101	12:09	61S	17:58	259	18:45
2024 Oct 22 (Tue)	05:33	06:21	101	12:09	61S	17:57	258	18:45
2024 Oct 23 (Wed)	05:33	06:21	102	12:09	60S	17:56	258	18:44
2024 Oct 24 (Thu)	05:33	06:21	102	12:09	60S	17:56	258	18:44
2024 Oct 25 (Fri)	05:34	06:22	103	12:09	60S	17:55	257	18:43
2024 Oct 26 (Sat)	05:34	06:22	103	12:08	59S	17:55	257	18:43
2024 Oct 27 (Sun)	05:34	06:23	103	12:08	59S	17:54	257	18:42
2024 Oct 28 (Mon)	05:35	06:23	104	12:08	59S	17:53	256	18:42
2024 Oct 29 (Tue)	05:35	06:23	104	12:08	58S	17:53	256	18:41
2024 Oct 30 (Wed)	05:35	06:24	104	12:08	58S	17:52	255	18:41
2024 Oct 31 (Thu)	05:36	06:24	105	12:08	58S	17:52	255	18:40
2024 Nov 01 (Fri)	05:36	06:25	105	12:08	57S	17:51	255	18:40
2024 Nov 02 (Sat)	05:37	06:25	105	12:08	57S	17:51	254	18:39
2024 Nov 03 (Sun)	05:37	06:26	106	12:08	57S	17:50	254	18:39
2024 Nov 04 (Mon)	05:37	06:26	106	12:08	56S	17:50	254	18:39
2024 Nov 05 (Tue)	05:38	06:26	106	12:08	56S	17:50	253	18:38
2024 Nov 06 (Wed)	05:38	06:27	107	12:08	56S	17:49	253	18:38
2024 Nov 07 (Thu)	05:39	06:27	107	12:08	56S	17:49	253	18:38
2024 Nov 08 (Fri)	05:39	06:28	107	12:08	55S	17:49	253	18:37
2024 Nov 09 (Sat)	05:39	06:28	108	12:08	55S	17:48	252	18:37
2024 Nov 10 (Sun)	05:40	06:29	108	12:08	55S	17:48	252	18:37
2024 Nov 11 (Mon)	05:40	06:29	108	12:09	54S	17:48	252	18:37
2024 Nov 12 (Tue)	05:41	06:30	108	12:09	54S	17:47	251	18:37
2024 Nov 13 (Wed)	05:41	06:30	109	12:09	54S	17:47	251	18:36
2024 Nov 14 (Thu)	05:42	06:31	109	12:09	54S	17:47	251	18:36
2024 Nov 15 (Fri)	05:42	06:32	109	12:09	53S	17:47	251	18:36
2024 Nov 16 (Sat)	05:43	06:32	110	12:09	53S	17:46	250	18:36
2024 Nov 17 (Sun)	05:43	06:33	110	12:10	53S	17:46	250	18:36
2024 Nov 18 (Mon)	05:44	06:33	110	12:10	53S	17:46	250	18:36

2024	Nov	19	(Tue)	05:44	06:34	110	12:10	52S	17:46	250	18:36
2024	Nov	20	(Wed)	05:45	06:34	111	12:10	52S	17:46	249	18:36
2024	Nov	21	(Thu)	05:45	06:35	111	12:10	52S	17:46	249	18:36
2024	Nov	22	(Fri)	05:46	06:36	111	12:11	52S	17:46	249	18:36
2024	Nov	23	(Sat)	05:46	06:36	111	12:11	52S	17:46	249	18:36
2024	Nov	24	(Sun)	05:47	06:37	112	12:11	51S	17:46	248	18:36
2024	Nov	25	(Mon)	05:47	06:37	112	12:12	51S	17:46	248	18:36
2024	Nov	26	(Tue)	05:48	06:38	112	12:12	51S	17:46	248	18:36
2024	Nov	27	(Wed)	05:48	06:39	112	12:12	51S	17:46	248	18:36
2024	Nov	28	(Thu)	05:49	06:39	112	12:13	51S	17:46	248	18:36
2024	Nov	29	(Fri)	05:49	06:40	112	12:13	50S	17:46	247	18:36
2024	Nov	30	(Sat)	05:50	06:40	113	12:13	50S	17:46	247	18:37
2024	Dec	01	(Sun)	05:50	06:41	113	12:14	50S	17:46	247	18:37
2024	Dec	02	(Mon)	05:51	06:42	113	12:14	50S	17:46	247	18:37
2024	Dec	03	(Tue)	05:52	06:42	113	12:14	50S	17:46	247	18:37
2024	Dec	04	(Wed)	05:52	06:43	113	12:15	50S	17:47	247	18:37
2024	Dec	05	(Thu)	05:53	06:43	113	12:15	50S	17:47	247	18:38
2024	Dec	06	(Fri)	05:53	06:44	114	12:16	49S	17:47	246	18:38
2024	Dec	07	(Sat)	05:54	06:45	114	12:16	49S	17:47	246	18:38
2024	Dec	08	(Sun)	05:54	06:45	114	12:17	49S	17:48	246	18:39
2024	Dec	09	(Mon)	05:55	06:46	114	12:17	49S	17:48	246	18:39
2024	Dec	10	(Tue)	05:56	06:46	114	12:17	49S	17:48	246	18:39
2024	Dec	11	(Wed)	05:56	06:47	114	12:18	49S	17:49	246	18:40
2024	Dec	12	(Thu)	05:57	06:48	114	12:18	49S	17:49	246	18:40
2024	Dec	13	(Fri)	05:57	06:48	114	12:19	49S	17:49	246	18:40
2024	Dec	14	(Sat)	05:58	06:49	114	12:19	49S	17:50	246	18:41
2024	Dec	15	(Sun)	05:58	06:49	114	12:20	49S	17:50	246	18:41
2024	Dec	16	(Mon)	05:59	06:50	114	12:20	49S	17:51	246	18:42
2024	Dec	17	(Tue)	05:59	06:50	114	12:21	49S	17:51	246	18:42
2024	Dec	18	(Wed)	06:00	06:51	114	12:21	49S	17:51	246	18:43
2024	Dec	19	(Thu)	06:00	06:52	115	12:22	49S	17:52	245	18:43
2024	Dec	20	(Fri)	06:01	06:52	115	12:22	49S	17:52	245	18:43
2024	Dec	21	(Sat)	06:01	06:53	115	12:23	49S	17:53	245	18:44
2024	Dec	22	(Sun)	06:02	06:53	115	12:23	49S	17:53	245	18:44
2024	Dec	23	(Mon)	06:02	06:54	115	12:24	49S	17:54	245	18:45
2024	Dec	24	(Tue)	06:03	06:54	115	12:24	49S	17:54	246	18:46
2024	Dec	25	(Wed)	06:03	06:54	114	12:25	49S	17:55	246	18:46
2024	Dec	26	(Thu)	06:04	06:55	114	12:25	49S	17:55	246	18:47
2024	Dec	27	(Fri)	06:04	06:55	114	12:26	49S	17:56	246	18:47
2024	Dec	28	(Sat)	06:05	06:56	114	12:26	49S	17:57	246	18:48
2024	Dec	29	(Sun)	06:05	06:56	114	12:27	49S	17:57	246	18:48
2024	Dec	30	(Mon)	06:06	06:57	114	12:27	49S	17:58	246	18:49
2024	Dec	31	(Tue)	06:06	06:57	114	12:28	49S	17:58	246	18:49

Sun

VTNC

Location: E 98°52'00.0", N18°45'00.0", 1035m
(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)	06:33	06:57	114	12:28	49S	17:59	246	18:22
2024	Jan	02	(Tue)	06:34	06:57	114	12:28	49S	17:59	246	18:23
2024	Jan	03	(Wed)	06:34	06:58	114	12:29	49S	18:00	246	18:23
2024	Jan	04	(Thu)	06:34	06:58	114	12:29	49S	18:00	246	18:24
2024	Jan	05	(Fri)	06:35	06:58	114	12:30	49S	18:01	246	18:25
2024	Jan	06	(Sat)	06:35	06:59	114	12:30	49S	18:02	246	18:25
2024	Jan	07	(Sun)	06:35	06:59	113	12:30	50S	18:02	247	18:26
2024	Jan	08	(Mon)	06:35	06:59	113	12:31	50S	18:03	247	18:26
2024	Jan	09	(Tue)	06:36	06:59	113	12:31	50S	18:04	247	18:27
2024	Jan	10	(Wed)	06:36	06:59	113	12:32	50S	18:04	247	18:28
2024	Jan	11	(Thu)	06:36	07:00	113	12:32	50S	18:05	247	18:28

2024	Jan	12	(Fri)	06:36	07:00	113	12:33	50S	18:05	247	18:29
2024	Jan	13	(Sat)	06:36	07:00	113	12:33	50S	18:06	248	18:30
2024	Jan	14	(Sun)	06:37	07:00	112	12:33	51S	18:07	248	18:30
2024	Jan	15	(Mon)	06:37	07:00	112	12:34	51S	18:07	248	18:31
2024	Jan	16	(Tue)	06:37	07:00	112	12:34	51S	18:08	248	18:31
2024	Jan	17	(Wed)	06:37	07:00	112	12:34	51S	18:09	248	18:32
2024	Jan	18	(Thu)	06:37	07:00	112	12:35	51S	18:09	248	18:33
2024	Jan	19	(Fri)	06:37	07:00	111	12:35	52S	18:10	249	18:33
2024	Jan	20	(Sat)	06:37	07:00	111	12:35	52S	18:11	249	18:34
2024	Jan	21	(Sun)	06:37	07:00	111	12:36	52S	18:11	249	18:34
2024	Jan	22	(Mon)	06:37	07:00	111	12:36	52S	18:12	249	18:35
2024	Jan	23	(Tue)	06:37	07:00	110	12:36	52S	18:12	250	18:36
2024	Jan	24	(Wed)	06:37	07:00	110	12:36	53S	18:13	250	18:36
2024	Jan	25	(Thu)	06:37	07:00	110	12:37	53S	18:14	250	18:37
2024	Jan	26	(Fri)	06:37	07:00	110	12:37	53S	18:14	250	18:37
2024	Jan	27	(Sat)	06:37	07:00	109	12:37	53S	18:15	251	18:38
2024	Jan	28	(Sun)	06:36	06:59	109	12:37	54S	18:15	251	18:38
2024	Jan	29	(Mon)	06:36	06:59	109	12:37	54S	18:16	251	18:39
2024	Jan	30	(Tue)	06:36	06:59	109	12:38	54S	18:17	252	18:39
2024	Jan	31	(Wed)	06:36	06:59	108	12:38	54S	18:17	252	18:40
2024	Feb	01	(Thu)	06:36	06:59	108	12:38	55S	18:18	252	18:40
2024	Feb	02	(Fri)	06:35	06:58	108	12:38	55S	18:18	252	18:41
2024	Feb	03	(Sat)	06:35	06:58	107	12:38	55S	18:19	253	18:41
2024	Feb	04	(Sun)	06:35	06:58	107	12:38	56S	18:19	253	18:42
2024	Feb	05	(Mon)	06:35	06:57	107	12:38	56S	18:20	253	18:42
2024	Feb	06	(Tue)	06:34	06:57	106	12:39	56S	18:20	254	18:43
2024	Feb	07	(Wed)	06:34	06:57	106	12:39	56S	18:21	254	18:43
2024	Feb	08	(Thu)	06:34	06:56	106	12:39	57S	18:21	254	18:44
2024	Feb	09	(Fri)	06:33	06:56	105	12:39	57S	18:22	255	18:44
2024	Feb	10	(Sat)	06:33	06:55	105	12:39	57S	18:22	255	18:45
2024	Feb	11	(Sun)	06:32	06:55	105	12:39	58S	18:23	255	18:45
2024	Feb	12	(Mon)	06:32	06:54	104	12:39	58S	18:23	256	18:46
2024	Feb	13	(Tue)	06:32	06:54	104	12:39	58S	18:24	256	18:46
2024	Feb	14	(Wed)	06:31	06:53	104	12:39	59S	18:24	256	18:47
2024	Feb	15	(Thu)	06:31	06:53	103	12:39	59S	18:25	257	18:47
2024	Feb	16	(Fri)	06:30	06:52	103	12:39	59S	18:25	257	18:47
2024	Feb	17	(Sat)	06:30	06:52	103	12:39	60S	18:26	258	18:48
2024	Feb	18	(Sun)	06:29	06:51	102	12:38	60S	18:26	258	18:48
2024	Feb	19	(Mon)	06:29	06:51	102	12:38	61S	18:26	258	18:49
2024	Feb	20	(Tue)	06:28	06:50	102	12:38	61S	18:27	259	18:49
2024	Feb	21	(Wed)	06:27	06:50	101	12:38	61S	18:27	259	18:49
2024	Feb	22	(Thu)	06:27	06:49	101	12:38	62S	18:28	259	18:50
2024	Feb	23	(Fri)	06:26	06:48	100	12:38	62S	18:28	260	18:50
2024	Feb	24	(Sat)	06:26	06:48	100	12:38	62S	18:28	260	18:50
2024	Feb	25	(Sun)	06:25	06:47	100	12:38	63S	18:29	261	18:51
2024	Feb	26	(Mon)	06:24	06:46	99	12:38	63S	18:29	261	18:51
2024	Feb	27	(Tue)	06:24	06:46	99	12:37	63S	18:29	261	18:51
2024	Feb	28	(Wed)	06:23	06:45	98	12:37	64S	18:30	262	18:52
2024	Feb	29	(Thu)	06:22	06:44	98	12:37	64S	18:30	262	18:52
2024	Mar	01	(Fri)	06:22	06:44	98	12:37	65S	18:30	263	18:52
2024	Mar	02	(Sat)	06:21	06:43	97	12:37	65S	18:31	263	18:53
2024	Mar	03	(Sun)	06:20	06:42	97	12:36	65S	18:31	263	18:53
2024	Mar	04	(Mon)	06:19	06:41	96	12:36	66S	18:31	264	18:53
2024	Mar	05	(Tue)	06:19	06:41	96	12:36	66S	18:32	264	18:53
2024	Mar	06	(Wed)	06:18	06:40	96	12:36	66S	18:32	265	18:54
2024	Mar	07	(Thu)	06:17	06:39	95	12:35	67S	18:32	265	18:54
2024	Mar	08	(Fri)	06:16	06:38	95	12:35	67S	18:32	265	18:54
2024	Mar	09	(Sat)	06:16	06:38	94	12:35	68S	18:33	266	18:55
2024	Mar	10	(Sun)	06:15	06:37	94	12:35	68S	18:33	266	18:55
2024	Mar	11	(Mon)	06:14	06:36	94	12:34	68S	18:33	267	18:55
2024	Mar	12	(Tue)	06:13	06:35	93	12:34	69S	18:34	267	18:55
2024	Mar	13	(Wed)	06:12	06:34	93	12:34	69S	18:34	268	18:56
2024	Mar	14	(Thu)	06:12	06:34	92	12:34	70S	18:34	268	18:56
2024	Mar	15	(Fri)	06:11	06:33	92	12:33	70S	18:34	268	18:56
2024	Mar	16	(Sat)	06:10	06:32	91	12:33	70S	18:35	269	18:56
2024	Mar	17	(Sun)	06:09	06:31	91	12:33	71S	18:35	269	18:57
2024	Mar	18	(Mon)	06:08	06:30	91	12:33	71S	18:35	270	18:57

2024	Mar	19	(Tue)	06:08	06:29	90	12:32	72S	18:35	270	18:57
2024	Mar	20	(Wed)	06:07	06:29	90	12:32	72S	18:36	270	18:57
2024	Mar	21	(Thu)	06:06	06:28	89	12:32	72S	18:36	271	18:58
2024	Mar	22	(Fri)	06:05	06:27	89	12:31	73S	18:36	271	18:58
2024	Mar	23	(Sat)	06:04	06:26	89	12:31	73S	18:36	272	18:58
2024	Mar	24	(Sun)	06:03	06:25	88	12:31	74S	18:37	272	18:58
2024	Mar	25	(Mon)	06:03	06:24	88	12:30	74S	18:37	273	18:59
2024	Mar	26	(Tue)	06:02	06:24	87	12:30	74S	18:37	273	18:59
2024	Mar	27	(Wed)	06:01	06:23	87	12:30	75S	18:37	273	18:59
2024	Mar	28	(Thu)	06:00	06:22	86	12:30	75S	18:37	274	18:59
2024	Mar	29	(Fri)	05:59	06:21	86	12:29	76S	18:38	274	19:00
2024	Mar	30	(Sat)	05:58	06:20	86	12:29	76S	18:38	275	19:00
2024	Mar	31	(Sun)	05:57	06:19	85	12:29	76S	18:38	275	19:00
2024	Apr	01	(Mon)	05:57	06:19	85	12:28	77S	18:38	275	19:00
2024	Apr	02	(Tue)	05:56	06:18	84	12:28	77S	18:39	276	19:01
2024	Apr	03	(Wed)	05:55	06:17	84	12:28	77S	18:39	276	19:01
2024	Apr	04	(Thu)	05:54	06:16	84	12:27	78S	18:39	277	19:01
2024	Apr	05	(Fri)	05:53	06:15	83	12:27	78S	18:39	277	19:01
2024	Apr	06	(Sat)	05:52	06:14	83	12:27	79S	18:40	277	19:02
2024	Apr	07	(Sun)	05:52	06:14	82	12:27	79S	18:40	278	19:02
2024	Apr	08	(Mon)	05:51	06:13	82	12:26	79S	18:40	278	19:02
2024	Apr	09	(Tue)	05:50	06:12	82	12:26	80S	18:40	279	19:02
2024	Apr	10	(Wed)	05:49	06:11	81	12:26	80S	18:41	279	19:03
2024	Apr	11	(Thu)	05:48	06:11	81	12:26	80S	18:41	279	19:03
2024	Apr	12	(Fri)	05:48	06:10	80	12:25	81S	18:41	280	19:03
2024	Apr	13	(Sat)	05:47	06:09	80	12:25	81S	18:41	280	19:04
2024	Apr	14	(Sun)	05:46	06:08	80	12:25	82S	18:42	281	19:04
2024	Apr	15	(Mon)	05:45	06:07	79	12:25	82S	18:42	281	19:04
2024	Apr	16	(Tue)	05:44	06:07	79	12:24	82S	18:42	281	19:04
2024	Apr	17	(Wed)	05:44	06:06	79	12:24	83S	18:42	282	19:05
2024	Apr	18	(Thu)	05:43	06:05	78	12:24	83S	18:43	282	19:05
2024	Apr	19	(Fri)	05:42	06:05	78	12:24	83S	18:43	282	19:05
2024	Apr	20	(Sat)	05:41	06:04	77	12:23	84S	18:43	283	19:06
2024	Apr	21	(Sun)	05:41	06:03	77	12:23	84S	18:43	283	19:06
2024	Apr	22	(Mon)	05:40	06:03	77	12:23	84S	18:44	283	19:06
2024	Apr	23	(Tue)	05:39	06:02	76	12:23	85S	18:44	284	19:07
2024	Apr	24	(Wed)	05:39	06:01	76	12:23	85S	18:44	284	19:07
2024	Apr	25	(Thu)	05:38	06:01	76	12:22	85S	18:45	285	19:07
2024	Apr	26	(Fri)	05:37	06:00	75	12:22	86S	18:45	285	19:08
2024	Apr	27	(Sat)	05:37	05:59	75	12:22	86S	18:45	285	19:08
2024	Apr	28	(Sun)	05:36	05:59	75	12:22	86S	18:46	286	19:08
2024	Apr	29	(Mon)	05:35	05:58	74	12:22	87S	18:46	286	19:09
2024	Apr	30	(Tue)	05:35	05:57	74	12:22	87S	18:46	286	19:09
2024	May	01	(Wed)	05:34	05:57	74	12:22	87S	18:47	286	19:09
2024	May	02	(Thu)	05:33	05:56	73	12:21	87S	18:47	287	19:10
2024	May	03	(Fri)	05:33	05:56	73	12:21	88S	18:47	287	19:10
2024	May	04	(Sat)	05:32	05:55	73	12:21	88S	18:48	287	19:11
2024	May	05	(Sun)	05:32	05:55	72	12:21	88S	18:48	288	19:11
2024	May	06	(Mon)	05:31	05:54	72	12:21	89S	18:48	288	19:11
2024	May	07	(Tue)	05:31	05:54	72	12:21	89S	18:49	288	19:12
2024	May	08	(Wed)	05:30	05:53	72	12:21	89S	18:49	289	19:12
2024	May	09	(Thu)	05:30	05:53	71	12:21	89S	18:49	289	19:13
2024	May	10	(Fri)	05:29	05:52	71	12:21	90S	18:50	289	19:13
2024	May	11	(Sat)	05:29	05:52	71	12:21	90S	18:50	289	19:13
2024	May	12	(Sun)	05:28	05:52	70	12:21	90S	18:50	290	19:14
2024	May	13	(Mon)	05:28	05:51	70	12:21	90S	18:51	290	19:14
2024	May	14	(Tue)	05:27	05:51	70	12:21	91N	18:51	290	19:15
2024	May	15	(Wed)	05:27	05:50	70	12:21	90N	18:52	290	19:15
2024	May	16	(Thu)	05:27	05:50	69	12:21	90N	18:52	291	19:15
2024	May	17	(Fri)	05:26	05:50	69	12:21	90N	18:52	291	19:16
2024	May	18	(Sat)	05:26	05:49	69	12:21	90N	18:53	291	19:16
2024	May	19	(Sun)	05:26	05:49	69	12:21	90N	18:53	291	19:17
2024	May	20	(Mon)	05:25	05:49	68	12:21	89N	18:53	292	19:17
2024	May	21	(Tue)	05:25	05:49	68	12:21	89N	18:54	292	19:18
2024	May	22	(Wed)	05:25	05:48	68	12:21	89N	18:54	292	19:18
2024	May	23	(Thu)	05:24	05:48	68	12:21	89N	18:55	292	19:18
2024	May	24	(Fri)	05:24	05:48	68	12:21	89N	18:55	292	19:19

2024	May	25	(Sat)	05:24	05:48	67	12:22	88N	18:55	293	19:19
2024	May	26	(Sun)	05:24	05:48	67	12:22	88N	18:56	293	19:20
2024	May	27	(Mon)	05:24	05:47	67	12:22	88N	18:56	293	19:20
2024	May	28	(Tue)	05:23	05:47	67	12:22	88N	18:57	293	19:20
2024	May	29	(Wed)	05:23	05:47	67	12:22	88N	18:57	293	19:21
2024	May	30	(Thu)	05:23	05:47	67	12:22	88N	18:57	293	19:21
2024	May	31	(Fri)	05:23	05:47	66	12:22	87N	18:58	294	19:22
2024	Jun	01	(Sat)	05:23	05:47	66	12:22	87N	18:58	294	19:22
2024	Jun	02	(Sun)	05:23	05:47	66	12:23	87N	18:58	294	19:23
2024	Jun	03	(Mon)	05:23	05:47	66	12:23	87N	18:59	294	19:23
2024	Jun	04	(Tue)	05:23	05:47	66	12:23	87N	18:59	294	19:23
2024	Jun	05	(Wed)	05:23	05:47	66	12:23	87N	19:00	294	19:24
2024	Jun	06	(Thu)	05:23	05:47	66	12:23	87N	19:00	294	19:24
2024	Jun	07	(Fri)	05:23	05:47	66	12:23	87N	19:00	294	19:24
2024	Jun	08	(Sat)	05:23	05:47	65	12:24	87N	19:01	295	19:25
2024	Jun	09	(Sun)	05:23	05:47	65	12:24	86N	19:01	295	19:25
2024	Jun	10	(Mon)	05:23	05:47	65	12:24	86N	19:01	295	19:25
2024	Jun	11	(Tue)	05:23	05:47	65	12:24	86N	19:02	295	19:26
2024	Jun	12	(Wed)	05:23	05:47	65	12:24	86N	19:02	295	19:26
2024	Jun	13	(Thu)	05:23	05:47	65	12:25	86N	19:02	295	19:26
2024	Jun	14	(Fri)	05:23	05:47	65	12:25	86N	19:02	295	19:27
2024	Jun	15	(Sat)	05:23	05:48	65	12:25	86N	19:03	295	19:27
2024	Jun	16	(Sun)	05:23	05:48	65	12:25	86N	19:03	295	19:27
2024	Jun	17	(Mon)	05:24	05:48	65	12:26	86N	19:03	295	19:28
2024	Jun	18	(Tue)	05:24	05:48	65	12:26	86N	19:03	295	19:28
2024	Jun	19	(Wed)	05:24	05:48	65	12:26	86N	19:04	295	19:28
2024	Jun	20	(Thu)	05:24	05:48	65	12:26	86N	19:04	295	19:28
2024	Jun	21	(Fri)	05:24	05:49	65	12:26	86N	19:04	295	19:29
2024	Jun	22	(Sat)	05:25	05:49	65	12:27	86N	19:04	295	19:29
2024	Jun	23	(Sun)	05:25	05:49	65	12:27	86N	19:05	295	19:29
2024	Jun	24	(Mon)	05:25	05:49	65	12:27	86N	19:05	295	19:29
2024	Jun	25	(Tue)	05:25	05:50	65	12:27	86N	19:05	295	19:29
2024	Jun	26	(Wed)	05:26	05:50	65	12:27	86N	19:05	295	19:29
2024	Jun	27	(Thu)	05:26	05:50	65	12:28	86N	19:05	295	19:29
2024	Jun	28	(Fri)	05:26	05:50	65	12:28	86N	19:05	295	19:30
2024	Jun	29	(Sat)	05:26	05:51	65	12:28	86N	19:05	295	19:30
2024	Jun	30	(Sun)	05:27	05:51	65	12:28	86N	19:05	295	19:30
2024	Jul	01	(Mon)	05:27	05:51	65	12:28	86N	19:06	295	19:30
2024	Jul	02	(Tue)	05:27	05:52	65	12:29	86N	19:06	295	19:30
2024	Jul	03	(Wed)	05:28	05:52	65	12:29	87N	19:06	295	19:30
2024	Jul	04	(Thu)	05:28	05:52	65	12:29	87N	19:06	294	19:30
2024	Jul	05	(Fri)	05:28	05:53	66	12:29	87N	19:06	294	19:30
2024	Jul	06	(Sat)	05:29	05:53	66	12:29	87N	19:06	294	19:30
2024	Jul	07	(Sun)	05:29	05:53	66	12:30	87N	19:06	294	19:30
2024	Jul	08	(Mon)	05:29	05:54	66	12:30	87N	19:06	294	19:30
2024	Jul	09	(Tue)	05:30	05:54	66	12:30	87N	19:06	294	19:30
2024	Jul	10	(Wed)	05:30	05:54	66	12:30	87N	19:06	294	19:30
2024	Jul	11	(Thu)	05:31	05:55	66	12:30	87N	19:05	294	19:30
2024	Jul	12	(Fri)	05:31	05:55	66	12:30	88N	19:05	293	19:29
2024	Jul	13	(Sat)	05:31	05:55	67	12:30	88N	19:05	293	19:29
2024	Jul	14	(Sun)	05:32	05:56	67	12:30	88N	19:05	293	19:29
2024	Jul	15	(Mon)	05:32	05:56	67	12:31	88N	19:05	293	19:29
2024	Jul	16	(Tue)	05:33	05:56	67	12:31	88N	19:05	293	19:29
2024	Jul	17	(Wed)	05:33	05:57	67	12:31	88N	19:05	293	19:28
2024	Jul	18	(Thu)	05:33	05:57	67	12:31	89N	19:04	292	19:28
2024	Jul	19	(Fri)	05:34	05:57	68	12:31	89N	19:04	292	19:28
2024	Jul	20	(Sat)	05:34	05:58	68	12:31	89N	19:04	292	19:28
2024	Jul	21	(Sun)	05:34	05:58	68	12:31	89N	19:04	292	19:27
2024	Jul	22	(Mon)	05:35	05:59	68	12:31	89N	19:03	292	19:27
2024	Jul	23	(Tue)	05:35	05:59	69	12:31	89N	19:03	291	19:27
2024	Jul	24	(Wed)	05:36	05:59	69	12:31	90N	19:03	291	19:26
2024	Jul	25	(Thu)	05:36	06:00	69	12:31	90N	19:02	291	19:26
2024	Jul	26	(Fri)	05:36	06:00	69	12:31	90N	19:02	291	19:26
2024	Jul	27	(Sat)	05:37	06:00	69	12:31	90N	19:02	290	19:25
2024	Jul	28	(Sun)	05:37	06:01	70	12:31	91N	19:01	290	19:25
2024	Jul	29	(Mon)	05:38	06:01	70	12:31	91S	19:01	290	19:24
2024	Jul	30	(Tue)	05:38	06:01	70	12:31	90S	19:00	290	19:24

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

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

2024	Dec 12	(Thu)	06:24	06:48	114	12:18	49S	17:49	246	18:13
2024	Dec 13	(Fri)	06:24	06:48	114	12:19	49S	17:49	246	18:13
2024	Dec 14	(Sat)	06:25	06:49	114	12:19	49S	17:50	246	18:13
2024	Dec 15	(Sun)	06:26	06:49	114	12:20	49S	17:50	246	18:14
2024	Dec 16	(Mon)	06:26	06:50	114	12:20	49S	17:51	246	18:14
2024	Dec 17	(Tue)	06:27	06:50	114	12:21	49S	17:51	246	18:15
2024	Dec 18	(Wed)	06:27	06:51	114	12:21	49S	17:51	246	18:15
2024	Dec 19	(Thu)	06:28	06:52	115	12:22	49S	17:52	245	18:16
2024	Dec 20	(Fri)	06:28	06:52	115	12:22	49S	17:52	245	18:16
2024	Dec 21	(Sat)	06:29	06:53	115	12:23	49S	17:53	245	18:17
2024	Dec 22	(Sun)	06:29	06:53	115	12:23	49S	17:53	245	18:17
2024	Dec 23	(Mon)	06:30	06:54	115	12:24	49S	17:54	245	18:18
2024	Dec 24	(Tue)	06:30	06:54	115	12:24	49S	17:54	246	18:18
2024	Dec 25	(Wed)	06:31	06:54	114	12:25	49S	17:55	246	18:19
2024	Dec 26	(Thu)	06:31	06:55	114	12:25	49S	17:55	246	18:19
2024	Dec 27	(Fri)	06:32	06:55	114	12:26	49S	17:56	246	18:20
2024	Dec 28	(Sat)	06:32	06:56	114	12:26	49S	17:57	246	18:20
2024	Dec 29	(Sun)	06:32	06:56	114	12:27	49S	17:57	246	18:21
2024	Dec 30	(Mon)	06:33	06:57	114	12:27	49S	17:58	246	18:22
2024	Dec 31	(Tue)	06:33	06:57	114	12:28	49S	17:58	246	18:22

Moon

VTNC

Location: E 98°52'00.0", N18°45'00.0", 1035m
(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)	22:34	80	04:16	85S	10:42	282
2024 Jan 02 (Tue)	23:21	86	04:56	80S	11:15	277
2024 Jan 03 (Wed)			05:35	74S	11:46	271
2024 Jan 04 (Thu)	00:08	92	06:14	68S	12:17	265
2024 Jan 05 (Fri)	00:56	98	06:55	62S	12:50	259
2024 Jan 06 (Sat)	01:47	104	07:38	57S	13:25	253
2024 Jan 07 (Sun)	02:40	110	08:25	52S	14:06	248
2024 Jan 08 (Mon)	03:38	115	09:16	47S	14:52	244
2024 Jan 09 (Tue)	04:40	118	10:13	44S	15:45	241
2024 Jan 10 (Wed)	05:44	120	11:15	43S	16:46	240
2024 Jan 11 (Thu)	06:47	119	12:19	44S	17:53	241
2024 Jan 12 (Fri)	07:45	117	13:22	47S	19:01	245
2024 Jan 13 (Sat)	08:39	112	14:21	52S	20:07	250
2024 Jan 14 (Sun)	09:26	106	15:16	58S	21:11	257
2024 Jan 15 (Mon)	10:08	99	16:08	64S	22:12	264
2024 Jan 16 (Tue)	10:48	92	16:57	72S	23:10	272
2024 Jan 17 (Wed)	11:26	85	17:44	79S		
2024 Jan 18 (Thu)	12:05	78	18:32	85S	00:08	279
2024 Jan 19 (Fri)	12:45	72	19:22	91S	01:05	286
2024 Jan 20 (Sat)	13:28	67	20:13	86N	02:03	291
2024 Jan 21 (Sun)	14:15	63	21:07	83N	03:03	296
2024 Jan 22 (Mon)	15:06	61	22:02	81N	04:02	299
2024 Jan 23 (Tue)	16:01	60	22:58	81N	04:59	300
2024 Jan 24 (Wed)	16:57	61	23:51	83N	05:53	299
2024 Jan 25 (Thu)	17:53	64			06:43	297
2024 Jan 26 (Fri)	18:47	68	00:41	86N	07:27	294
2024 Jan 27 (Sat)	19:38	73	01:28	90N	08:06	290
2024 Jan 28 (Sun)	20:28	78	02:12	87S	08:42	284
2024 Jan 29 (Mon)	21:15	84	02:53	82S	09:14	279
2024 Jan 30 (Tue)	22:02	90	03:33	76S	09:46	273
2024 Jan 31 (Wed)	22:50	96	04:11	70S	10:16	267
2024 Feb 01 (Thu)	23:38	102	04:51	64S	10:48	261
2024 Feb 02 (Fri)			05:32	59S	11:22	255
2024 Feb 03 (Sat)	00:29	108	06:16	53S	11:59	250
2024 Feb 04 (Sun)	01:24	113	07:04	49S	12:41	245

2024 Feb 05 (Mon)	02:22 117	07:57 45S	13:30 242
2024 Feb 06 (Tue)	03:23 119	08:55 43S	14:26 240
2024 Feb 07 (Wed)	04:26 120	09:57 43S	15:29 240
2024 Feb 08 (Thu)	05:27 119	11:00 45S	16:36 243
2024 Feb 09 (Fri)	06:23 115	12:02 49S	17:44 247
2024 Feb 10 (Sat)	07:14 109	13:00 54S	18:51 254
2024 Feb 11 (Sun)	08:00 103	13:55 61S	19:56 261
2024 Feb 12 (Mon)	08:42 95	14:47 69S	20:57 269
2024 Feb 13 (Tue)	09:22 87	15:37 76S	21:57 276
2024 Feb 14 (Wed)	10:02 80	16:27 83S	22:57 283
2024 Feb 15 (Thu)	10:42 73	17:17 89S	23:57 290
2024 Feb 16 (Fri)	11:26 68	18:09 87N	
2024 Feb 17 (Sat)	12:12 64	19:03 84N	00:57 295
2024 Feb 18 (Sun)	13:03 61	19:58 81N	01:57 298
2024 Feb 19 (Mon)	13:56 60	20:53 81N	02:55 300
2024 Feb 20 (Tue)	14:52 61	21:47 82N	03:50 300
2024 Feb 21 (Wed)	15:47 63	22:38 85N	04:40 298
2024 Feb 22 (Thu)	16:41 66	23:26 88N	05:25 295
2024 Feb 23 (Fri)	17:34 71		06:06 291
2024 Feb 24 (Sat)	18:24 76	00:10 89S	06:42 286
2024 Feb 25 (Sun)	19:12 82	00:52 83S	07:16 281
2024 Feb 26 (Mon)	19:59 88	01:32 78S	07:47 275
2024 Feb 27 (Tue)	20:46 94	02:10 72S	08:18 269
2024 Feb 28 (Wed)	21:34 100	02:49 66S	08:49 263
2024 Feb 29 (Thu)	22:23 106	03:29 60S	09:22 257
2024 Mar 01 (Fri)	23:16 111	04:12 55S	09:57 251
2024 Mar 02 (Sat)		04:57 50S	10:36 247
2024 Mar 03 (Sun)	00:11 116	05:47 46S	11:21 243
2024 Mar 04 (Mon)	01:10 119	06:42 44S	12:12 240
2024 Mar 05 (Tue)	02:10 120	07:40 43S	13:10 240
2024 Mar 06 (Wed)	03:10 120	08:41 44S	14:14 241
2024 Mar 07 (Thu)	04:07 117	09:42 46S	15:20 245
2024 Mar 08 (Fri)	04:59 113	10:41 51S	16:27 250
2024 Mar 09 (Sat)	05:47 107	11:37 57S	17:32 257
2024 Mar 10 (Sun)	06:31 99	12:31 65S	18:36 265
2024 Mar 11 (Mon)	07:13 91	13:23 72S	19:38 272
2024 Mar 12 (Tue)	07:53 84	14:14 80S	20:40 280
2024 Mar 13 (Wed)	08:35 76	15:06 87S	21:42 287
2024 Mar 14 (Thu)	09:19 70	15:59 89N	22:44 293
2024 Mar 15 (Fri)	10:06 65	16:54 85N	23:47 297
2024 Mar 16 (Sat)	10:56 62	17:51 82N	
2024 Mar 17 (Sun)	11:50 60	18:47 81N	00:48 300
2024 Mar 18 (Mon)	12:46 60	19:43 81N	01:45 300
2024 Mar 19 (Tue)	13:42 62	20:35 84N	02:37 299
2024 Mar 20 (Wed)	14:37 65	21:23 87N	03:24 297
2024 Mar 21 (Thu)	15:30 69	22:09 90S	04:06 293
2024 Mar 22 (Fri)	16:20 75	22:51 85S	04:44 288
2024 Mar 23 (Sat)	17:08 80	23:31 80S	05:18 283
2024 Mar 24 (Sun)	17:56 86		05:49 277
2024 Mar 25 (Mon)	18:43 92	00:10 74S	06:20 271
2024 Mar 26 (Tue)	19:31 99	00:49 68S	06:51 265
2024 Mar 27 (Wed)	20:20 104	01:29 62S	07:23 259
2024 Mar 28 (Thu)	21:11 110	02:11 57S	07:58 253
2024 Mar 29 (Fri)	22:06 114	02:55 52S	08:36 248
2024 Mar 30 (Sat)	23:03 118	03:43 47S	09:18 244
2024 Mar 31 (Sun)		04:36 44S	10:07 241
2024 Apr 01 (Mon)	00:02 120	05:32 43S	11:01 240
2024 Apr 02 (Tue)	01:00 120	06:30 43S	12:01 240
2024 Apr 03 (Wed)	01:56 119	07:29 45S	13:04 243
2024 Apr 04 (Thu)	02:49 115	08:27 49S	14:08 247
2024 Apr 05 (Fri)	03:37 110	09:22 54S	15:12 253
2024 Apr 06 (Sat)	04:21 103	10:15 61S	16:15 260
2024 Apr 07 (Sun)	05:02 96	11:07 68S	17:17 268
2024 Apr 08 (Mon)	05:43 88	11:58 76S	18:18 276
2024 Apr 09 (Tue)	06:24 80	12:50 83S	19:21 284
2024 Apr 10 (Wed)	07:07 73	13:43 90S	20:24 290
2024 Apr 11 (Thu)	07:54 67	14:39 87N	21:29 295

2024 Apr 12 (Fri)	08:44 63	15:37 83N	22:33 299
2024 Apr 13 (Sat)	09:39 60	16:36 81N	23:34 300
2024 Apr 14 (Sun)	10:36 60	17:33 81N	
2024 Apr 15 (Mon)	11:33 61	18:28 83N	00:30 300
2024 Apr 16 (Tue)	12:30 64	19:19 86N	01:20 298
2024 Apr 17 (Wed)	13:24 68	20:06 90N	02:04 294
2024 Apr 18 (Thu)	14:15 73	20:49 87S	02:44 290
2024 Apr 19 (Fri)	15:04 78	21:30 82S	03:19 284
2024 Apr 20 (Sat)	15:52 84	22:09 76S	03:51 279
2024 Apr 21 (Sun)	16:39 90	22:48 70S	04:22 273
2024 Apr 22 (Mon)	17:27 96	23:28 64S	04:53 267
2024 Apr 23 (Tue)	18:15 102		05:25 261
2024 Apr 24 (Wed)	19:07 108	00:09 58S	05:58 255
2024 Apr 25 (Thu)	20:01 113	00:53 53S	06:35 249
2024 Apr 26 (Fri)	20:57 117	01:40 49S	07:17 245
2024 Apr 27 (Sat)	21:56 120	02:32 45S	08:04 242
2024 Apr 28 (Sun)	22:55 120	03:27 43S	08:57 240
2024 Apr 29 (Mon)	23:51 119	04:25 43S	09:55 240
2024 Apr 30 (Tue)		05:23 44S	10:56 242
2024 May 01 (Wed)	00:44 116	06:20 47S	11:59 246
2024 May 02 (Thu)	01:32 112	07:14 52S	13:01 251
2024 May 03 (Fri)	02:16 106	08:06 58S	14:02 257
2024 May 04 (Sat)	02:57 99	08:57 65S	15:01 265
2024 May 05 (Sun)	03:36 91	09:46 72S	16:01 272
2024 May 06 (Mon)	04:16 84	10:36 79S	17:01 280
2024 May 07 (Tue)	04:57 77	11:28 86S	18:04 287
2024 May 08 (Wed)	05:41 70	12:22 89N	19:08 293
2024 May 09 (Thu)	06:30 65	13:20 85N	20:13 297
2024 May 10 (Fri)	07:23 61	14:19 82N	21:17 300
2024 May 11 (Sat)	08:21 60	15:19 81N	22:17 300
2024 May 12 (Sun)	09:20 60	16:17 82N	23:11 299
2024 May 13 (Mon)	10:19 63	17:10 84N	23:59 296
2024 May 14 (Tue)	11:15 66	18:00 88N	
2024 May 15 (Wed)	12:08 71	18:45 89S	00:41 291
2024 May 16 (Thu)	12:58 76	19:27 84S	01:18 286
2024 May 17 (Fri)	13:47 82	20:07 78S	01:51 281
2024 May 18 (Sat)	14:34 88	20:46 72S	02:23 275
2024 May 19 (Sun)	15:21 94	21:25 66S	02:54 269
2024 May 20 (Mon)	16:09 100	22:05 60S	03:25 263
2024 May 21 (Tue)	17:00 106	22:48 55S	03:58 257
2024 May 22 (Wed)	17:53 111	23:35 50S	04:34 251
2024 May 23 (Thu)	18:49 116		05:14 247
2024 May 24 (Fri)	19:49 119	00:26 46S	05:59 243
2024 May 25 (Sat)	20:48 120	01:20 44S	06:51 240
2024 May 26 (Sun)	21:47 120	02:18 43S	07:49 240
2024 May 27 (Mon)	22:41 117	03:18 44S	08:50 241
2024 May 28 (Tue)	23:30 113	04:15 46S	09:53 244
2024 May 29 (Wed)		05:11 51S	10:55 249
2024 May 30 (Thu)	00:15 108	06:03 56S	11:55 255
2024 May 31 (Fri)	00:56 101	06:53 63S	12:54 262
2024 Jun 01 (Sat)	01:35 94	07:41 70S	13:52 270
2024 Jun 02 (Sun)	02:13 87	08:29 77S	14:50 277
2024 Jun 03 (Mon)	02:52 79	09:18 84S	15:49 284
2024 Jun 04 (Tue)	03:34 73	10:10 90S	16:51 291
2024 Jun 05 (Wed)	04:19 67	11:05 86N	17:55 295
2024 Jun 06 (Thu)	05:10 63	12:03 83N	18:59 299
2024 Jun 07 (Fri)	06:06 60	13:03 81N	20:01 300
2024 Jun 08 (Sat)	07:04 60	14:02 81N	20:59 299
2024 Jun 09 (Sun)	08:04 62	14:59 83N	21:50 297
2024 Jun 10 (Mon)	09:03 65	15:51 86N	22:35 293
2024 Jun 11 (Tue)	09:58 69	16:38 91S	23:14 288
2024 Jun 12 (Wed)	10:50 74	17:22 86S	23:49 283
2024 Jun 13 (Thu)	11:39 80	18:03 80S	
2024 Jun 14 (Fri)	12:27 86	18:42 74S	00:22 277
2024 Jun 15 (Sat)	13:14 92	19:21 68S	00:53 271
2024 Jun 16 (Sun)	14:01 98	20:00 63S	01:24 265
2024 Jun 17 (Mon)	14:51 104	20:42 57S	01:56 259

2024 Jun 18 (Tue)	15:43 109	21:27 52S	02:30 253
2024 Jun 19 (Wed)	16:38 114	22:16 48S	03:08 248
2024 Jun 20 (Thu)	17:36 118	23:10 45S	03:52 244
2024 Jun 21 (Fri)	18:37 120		04:42 241
2024 Jun 22 (Sat)	19:37 120	00:08 43S	05:38 240
2024 Jun 23 (Sun)	20:34 118	01:08 43S	06:39 241
2024 Jun 24 (Mon)	21:26 114	02:08 45S	07:43 243
2024 Jun 25 (Tue)	22:13 109	03:05 49S	08:47 248
2024 Jun 26 (Wed)	22:56 103	03:59 55S	09:49 254
2024 Jun 27 (Thu)	23:35 96	04:50 61S	10:49 260
2024 Jun 28 (Fri)		05:39 68S	11:47 268
2024 Jun 29 (Sat)	00:13 89	06:26 75S	12:44 275
2024 Jun 30 (Sun)	00:51 81	07:14 82S	13:42 282
2024 Jul 01 (Mon)	01:31 75	08:04 88S	14:42 289
2024 Jul 02 (Tue)	02:14 69	08:57 88N	15:44 294
2024 Jul 03 (Wed)	03:02 64	09:53 84N	16:47 298
2024 Jul 04 (Thu)	03:55 61	10:51 82N	17:49 300
2024 Jul 05 (Fri)	04:52 60	11:50 81N	18:47 300
2024 Jul 06 (Sat)	05:51 61	12:47 82N	19:41 298
2024 Jul 07 (Sun)	06:50 63	13:41 85N	20:28 295
2024 Jul 08 (Mon)	07:47 67	14:31 89N	21:10 290
2024 Jul 09 (Tue)	08:41 72	15:16 88S	21:47 285
2024 Jul 10 (Wed)	09:32 78	15:58 82S	22:20 279
2024 Jul 11 (Thu)	10:20 84	16:38 76S	22:52 273
2024 Jul 12 (Fri)	11:07 90	17:17 71S	23:23 267
2024 Jul 13 (Sat)	11:54 96	17:56 65S	23:54 261
2024 Jul 14 (Sun)	12:42 102	18:36 59S	
2024 Jul 15 (Mon)	13:32 107	19:19 54S	00:27 256
2024 Jul 16 (Tue)	14:25 112	20:06 49S	01:03 250
2024 Jul 17 (Wed)	15:22 116	20:57 46S	01:44 246
2024 Jul 18 (Thu)	16:22 119	21:53 43S	02:30 242
2024 Jul 19 (Fri)	17:22 120	22:53 43S	03:24 240
2024 Jul 20 (Sat)	18:21 119	23:53 44S	04:23 240
2024 Jul 21 (Sun)	19:17 116		05:27 242
2024 Jul 22 (Mon)	20:07 111	00:53 47S	06:33 246
2024 Jul 23 (Tue)	20:52 105	01:50 52S	07:38 251
2024 Jul 24 (Wed)	21:34 98	02:44 59S	08:40 258
2024 Jul 25 (Thu)	22:13 91	03:34 66S	09:40 265
2024 Jul 26 (Fri)	22:51 83	04:23 73S	10:39 273
2024 Jul 27 (Sat)	23:31 76	05:12 80S	11:37 280
2024 Jul 28 (Sun)		06:01 86S	12:37 287
2024 Jul 29 (Mon)	00:13 70	06:53 89N	13:38 293
2024 Jul 30 (Tue)	00:59 65	07:47 85N	14:40 297
2024 Jul 31 (Wed)	01:50 62	08:44 82N	15:41 299
2024 Aug 01 (Thu)	02:44 60	09:42 81N	16:40 300
2024 Aug 02 (Fri)	03:42 60	10:39 81N	17:35 299
2024 Aug 03 (Sat)	04:41 62	11:34 84N	18:24 296
2024 Aug 04 (Sun)	05:38 66	12:24 87N	19:07 292
2024 Aug 05 (Mon)	06:33 70	13:11 89S	19:45 287
2024 Aug 06 (Tue)	07:25 76	13:54 84S	20:20 281
2024 Aug 07 (Wed)	08:14 81	14:35 78S	20:52 276
2024 Aug 08 (Thu)	09:01 87	15:14 73S	21:23 269
2024 Aug 09 (Fri)	09:48 94	15:53 67S	21:53 263
2024 Aug 10 (Sat)	10:36 100	16:32 61S	22:25 258
2024 Aug 11 (Sun)	11:24 105	17:14 56S	23:00 252
2024 Aug 12 (Mon)	12:15 111	17:58 51S	23:37 247
2024 Aug 13 (Tue)	13:10 115	18:46 47S	
2024 Aug 14 (Wed)	14:07 118	19:39 44S	00:21 243
2024 Aug 15 (Thu)	15:06 120	20:36 43S	01:10 241
2024 Aug 16 (Fri)	16:05 120	21:36 43S	02:06 240
2024 Aug 17 (Sat)	17:02 118	22:36 46S	03:07 241
2024 Aug 18 (Sun)	17:55 114	23:35 50S	04:12 244
2024 Aug 19 (Mon)	18:43 108		05:18 248
2024 Aug 20 (Tue)	19:27 101	00:31 56S	06:23 255
2024 Aug 21 (Wed)	20:08 94	01:24 62S	07:26 262
2024 Aug 22 (Thu)	20:48 86	02:15 70S	08:27 270
2024 Aug 23 (Fri)	21:28 79	03:05 77S	09:28 278

2024 Aug 24 (Sat)	22:11	72	03:56	84S	10:29	285
2024 Aug 25 (Sun)	22:56	66	04:48	91S	11:30	291
2024 Aug 26 (Mon)	23:46	62	05:43	86N	12:33	296
2024 Aug 27 (Tue)			06:39	82N	13:36	299
2024 Aug 28 (Wed)	00:40	60	07:37	81N	14:36	300
2024 Aug 29 (Thu)	01:37	60	08:35	81N	15:31	300
2024 Aug 30 (Fri)	02:35	61	09:29	83N	16:21	297
2024 Aug 31 (Sat)	03:32	64	10:21	86N	17:06	294
2024 Sep 01 (Sun)	04:27	68	11:08	90N	17:45	289
2024 Sep 02 (Mon)	05:20	74	11:52	86S	18:20	283
2024 Sep 03 (Tue)	06:09	79	12:33	80S	18:53	278
2024 Sep 04 (Wed)	06:57	85	13:13	75S	19:24	272
2024 Sep 05 (Thu)	07:44	92	13:51	69S	19:55	265
2024 Sep 06 (Fri)	08:31	98	14:30	63S	20:26	259
2024 Sep 07 (Sat)	09:19	104	15:11	57S	20:59	254
2024 Sep 08 (Sun)	10:09	109	15:54	52S	21:35	249
2024 Sep 09 (Mon)	11:01	114	16:40	48S	22:15	245
2024 Sep 10 (Tue)	11:56	117	17:30	45S	23:01	241
2024 Sep 11 (Wed)	12:53	120	18:24	43S	23:53	240
2024 Sep 12 (Thu)	13:51	120	19:21	43S		
2024 Sep 13 (Fri)	14:48	119	20:19	44S	00:50	240
2024 Sep 14 (Sat)	15:41	116	21:17	47S	01:52	242
2024 Sep 15 (Sun)	16:31	111	22:14	52S	02:57	246
2024 Sep 16 (Mon)	17:16	105	23:08	59S	04:01	251
2024 Sep 17 (Tue)	17:59	98			05:05	258
2024 Sep 18 (Wed)	18:40	90	00:00	66S	06:07	266
2024 Sep 19 (Thu)	19:21	82	00:52	74S	07:09	274
2024 Sep 20 (Fri)	20:03	75	01:44	81S	08:12	282
2024 Sep 21 (Sat)	20:49	68	02:37	88S	09:16	289
2024 Sep 22 (Sun)	21:39	64	03:33	88N	10:21	294
2024 Sep 23 (Mon)	22:33	61	04:31	83N	11:26	298
2024 Sep 24 (Tue)	23:31	60	05:30	81N	12:29	300
2024 Sep 25 (Wed)			06:29	81N	13:27	300
2024 Sep 26 (Thu)	00:29	60	07:25	82N	14:19	298
2024 Sep 27 (Fri)	01:27	63	08:18	85N	15:05	295
2024 Sep 28 (Sat)	02:23	67	09:06	89N	15:46	291
2024 Sep 29 (Sun)	03:16	72	09:51	88S	16:22	285
2024 Sep 30 (Mon)	04:06	77	10:33	82S	16:55	280
2024 Oct 01 (Tue)	04:54	83	11:12	77S	17:27	274
2024 Oct 02 (Wed)	05:41	90	11:51	71S	17:57	267
2024 Oct 03 (Thu)	06:28	96	12:30	65S	18:28	261
2024 Oct 04 (Fri)	07:16	102	13:10	59S	19:00	256
2024 Oct 05 (Sat)	08:05	107	13:52	54S	19:35	250
2024 Oct 06 (Sun)	08:56	112	14:37	49S	20:14	246
2024 Oct 07 (Mon)	09:50	116	15:25	46S	20:58	242
2024 Oct 08 (Tue)	10:46	119	16:17	43S	21:47	240
2024 Oct 09 (Wed)	11:43	120	17:12	43S	22:41	240
2024 Oct 10 (Thu)	12:38	120	18:08	43S	23:39	241
2024 Oct 11 (Fri)	13:31	118	19:05	46S		
2024 Oct 12 (Sat)	14:21	114	20:00	50S	00:41	244
2024 Oct 13 (Sun)	15:06	108	20:53	55S	01:43	248
2024 Oct 14 (Mon)	15:49	102	21:45	62S	02:45	255
2024 Oct 15 (Tue)	16:29	94	22:36	70S	03:46	262
2024 Oct 16 (Wed)	17:10	86	23:27	77S	04:48	270
2024 Oct 17 (Thu)	17:52	79			05:50	278
2024 Oct 18 (Fri)	18:37	72	00:20	85S	06:54	285
2024 Oct 19 (Sat)	19:26	66	01:16	90N	08:00	292
2024 Oct 20 (Sun)	20:20	62	02:15	85N	09:07	297
2024 Oct 21 (Mon)	21:18	60	03:16	82N	10:14	300
2024 Oct 22 (Tue)	22:19	60	04:17	81N	11:16	300
2024 Oct 23 (Wed)	23:19	62	05:17	81N	12:13	299
2024 Oct 24 (Thu)			06:12	84N	13:02	296
2024 Oct 25 (Fri)	00:17	66	07:03	87N	13:45	292
2024 Oct 26 (Sat)	01:11	70	07:49	89S	14:23	287
2024 Oct 27 (Sun)	02:02	76	08:32	84S	14:57	281
2024 Oct 28 (Mon)	02:51	81	09:12	78S	15:29	276
2024 Oct 29 (Tue)	03:38	87	09:51	73S	15:59	269

2024 Oct 30 (Wed)	04:25 94	10:30 67S	16:30 263
2024 Oct 31 (Thu)	05:12 100	11:09 61S	17:02 257
2024 Nov 01 (Fri)	06:01 105	11:50 56S	17:36 252
2024 Nov 02 (Sat)	06:52 111	12:35 51S	18:14 247
2024 Nov 03 (Sun)	07:46 115	13:22 47S	18:56 243
2024 Nov 04 (Mon)	08:41 118	14:13 44S	19:44 241
2024 Nov 05 (Tue)	09:38 120	15:07 43S	20:36 240
2024 Nov 06 (Wed)	10:34 120	16:03 43S	21:33 240
2024 Nov 07 (Thu)	11:27 119	16:59 45S	22:33 243
2024 Nov 08 (Fri)	12:16 115	17:53 48S	23:33 247
2024 Nov 09 (Sat)	13:01 110	18:45 53S	
2024 Nov 10 (Sun)	13:43 104	19:35 59S	00:33 252
2024 Nov 11 (Mon)	14:23 98	20:24 66S	01:32 259
2024 Nov 12 (Tue)	15:02 90	21:13 73S	02:31 266
2024 Nov 13 (Wed)	15:42 82	22:04 81S	03:30 274
2024 Nov 14 (Thu)	16:24 75	22:57 88S	04:32 281
2024 Nov 15 (Fri)	17:11 69	23:54 88N	05:36 288
2024 Nov 16 (Sat)	18:03 64		06:43 294
2024 Nov 17 (Sun)	19:00 61	00:55 83N	07:51 298
2024 Nov 18 (Mon)	20:02 60	01:58 81N	08:57 300
2024 Nov 19 (Tue)	21:04 61	03:01 81N	09:59 300
2024 Nov 20 (Wed)	22:05 64	04:00 83N	10:53 297
2024 Nov 21 (Thu)	23:02 68	04:54 86N	11:40 294
2024 Nov 22 (Fri)	23:56 74	05:44 90N	12:21 289
2024 Nov 23 (Sat)		06:28 86S	12:57 283
2024 Nov 24 (Sun)	00:46 79	07:10 80S	13:29 278
2024 Nov 25 (Mon)	01:34 85	07:49 75S	14:00 271
2024 Nov 26 (Tue)	02:21 92	08:28 69S	14:31 265
2024 Nov 27 (Wed)	03:08 98	09:07 63S	15:02 259
2024 Nov 28 (Thu)	03:56 104	09:48 57S	15:36 254
2024 Nov 29 (Fri)	04:46 109	10:31 52S	16:12 249
2024 Nov 30 (Sat)	05:39 114	11:18 48S	16:53 245
2024 Dec 01 (Sun)	06:34 117	12:08 45S	17:40 242
2024 Dec 02 (Mon)	07:32 120	13:02 43S	18:31 240
2024 Dec 03 (Tue)	08:28 120	13:58 43S	19:28 240
2024 Dec 04 (Wed)	09:23 119	14:54 44S	20:27 242
2024 Dec 05 (Thu)	10:14 116	15:49 47S	21:28 246
2024 Dec 06 (Fri)	11:00 112	16:42 52S	22:27 251
2024 Dec 07 (Sat)	11:42 106	17:32 58S	23:25 257
2024 Dec 08 (Sun)	12:21 100	18:20 64S	
2024 Dec 09 (Mon)	12:59 93	19:07 71S	00:23 264
2024 Dec 10 (Tue)	13:37 85	19:55 78S	01:20 271
2024 Dec 11 (Wed)	14:17 78	20:45 85S	02:18 278
2024 Dec 12 (Thu)	15:00 71	21:39 90N	03:18 285
2024 Dec 13 (Fri)	15:48 66	22:36 85N	04:22 292
2024 Dec 14 (Sat)	16:42 62	23:38 82N	05:28 296
2024 Dec 15 (Sun)	17:42 60		06:35 299
2024 Dec 16 (Mon)	18:44 60	00:41 81N	07:40 300
2024 Dec 17 (Tue)	19:47 63	01:42 82N	08:38 299
2024 Dec 18 (Wed)	20:48 66	02:40 84N	09:30 295
2024 Dec 19 (Thu)	21:44 71	03:33 88N	10:14 291
2024 Dec 20 (Fri)	22:37 77	04:21 88S	10:53 286
2024 Dec 21 (Sat)	23:26 83	05:04 83S	11:27 280
2024 Dec 22 (Sun)		05:45 77S	11:59 274
2024 Dec 23 (Mon)	00:14 89	06:24 71S	12:30 268
2024 Dec 24 (Tue)	01:01 96	07:03 65S	13:01 262
2024 Dec 25 (Wed)	01:49 101	07:43 59S	13:34 256
2024 Dec 26 (Thu)	02:38 107	08:25 54S	14:09 251
2024 Dec 27 (Fri)	03:30 112	09:10 50S	14:48 246
2024 Dec 28 (Sat)	04:24 116	09:59 46S	15:32 243
2024 Dec 29 (Sun)	05:21 119	10:52 44S	16:23 240
2024 Dec 30 (Mon)	06:19 120	11:49 43S	17:18 240
2024 Dec 31 (Tue)	07:15 120	12:46 44S	18:18 241