

Sun

VTEN

Location: E102°56'00.0", N14°56'00.0", 729m
(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)	05:44	06:34 114		12:11 53S	17:49 246		18:39
2024 Jan 02 (Tue)	05:44	06:34 114		12:12 53S	17:50 246		18:40
2024 Jan 03 (Wed)	05:44	06:34 113		12:12 53S	17:50 247		18:40
2024 Jan 04 (Thu)	05:45	06:35 113		12:13 53S	17:51 247		18:41
2024 Jan 05 (Fri)	05:45	06:35 113		12:13 53S	17:52 247		18:41
2024 Jan 06 (Sat)	05:46	06:35 113		12:14 53S	17:52 247		18:42
2024 Jan 07 (Sun)	05:46	06:36 113		12:14 53S	17:53 247		18:43
2024 Jan 08 (Mon)	05:46	06:36 113		12:15 53S	17:53 247		18:43
2024 Jan 09 (Tue)	05:47	06:36 113		12:15 54S	17:54 247		18:44
2024 Jan 10 (Wed)	05:47	06:36 113		12:15 54S	17:55 247		18:44
2024 Jan 11 (Thu)	05:47	06:37 112		12:16 54S	17:55 248		18:45
2024 Jan 12 (Fri)	05:47	06:37 112		12:16 54S	17:56 248		18:45
2024 Jan 13 (Sat)	05:48	06:37 112		12:17 54S	17:56 248		18:46
2024 Jan 14 (Sun)	05:48	06:37 112		12:17 54S	17:57 248		18:46
2024 Jan 15 (Mon)	05:48	06:37 112		12:17 55S	17:57 248		18:47
2024 Jan 16 (Tue)	05:48	06:38 112		12:18 55S	17:58 248		18:47
2024 Jan 17 (Wed)	05:48	06:38 111		12:18 55S	17:59 249		18:48
2024 Jan 18 (Thu)	05:49	06:38 111		12:18 55S	17:59 249		18:48
2024 Jan 19 (Fri)	05:49	06:38 111		12:19 55S	18:00 249		18:49
2024 Jan 20 (Sat)	05:49	06:38 111		12:19 56S	18:00 249		18:49
2024 Jan 21 (Sun)	05:49	06:38 111		12:19 56S	18:01 250		18:50
2024 Jan 22 (Mon)	05:49	06:38 110		12:20 56S	18:01 250		18:50
2024 Jan 23 (Tue)	05:49	06:38 110		12:20 56S	18:02 250		18:51
2024 Jan 24 (Wed)	05:49	06:38 110		12:20 56S	18:02 250		18:51
2024 Jan 25 (Thu)	05:49	06:38 110		12:20 57S	18:03 251		18:52
2024 Jan 26 (Fri)	05:49	06:38 109		12:21 57S	18:04 251		18:52
2024 Jan 27 (Sat)	05:49	06:38 109		12:21 57S	18:04 251		18:53
2024 Jan 28 (Sun)	05:49	06:38 109		12:21 57S	18:05 251		18:53
2024 Jan 29 (Mon)	05:49	06:38 109		12:21 58S	18:05 252		18:53
2024 Jan 30 (Tue)	05:49	06:37 108		12:21 58S	18:06 252		18:54
2024 Jan 31 (Wed)	05:49	06:37 108		12:22 58S	18:06 252		18:54
2024 Feb 01 (Thu)	05:49	06:37 108		12:22 59S	18:06 252		18:55
2024 Feb 02 (Fri)	05:49	06:37 107		12:22 59S	18:07 253		18:55
2024 Feb 03 (Sat)	05:49	06:37 107		12:22 59S	18:07 253		18:55
2024 Feb 04 (Sun)	05:49	06:37 107		12:22 59S	18:08 253		18:56
2024 Feb 05 (Mon)	05:48	06:36 106		12:22 60S	18:08 254		18:56
2024 Feb 06 (Tue)	05:48	06:36 106		12:22 60S	18:09 254		18:56
2024 Feb 07 (Wed)	05:48	06:36 106		12:22 60S	18:09 254		18:57
2024 Feb 08 (Thu)	05:48	06:35 106		12:22 61S	18:09 255		18:57
2024 Feb 09 (Fri)	05:48	06:35 105		12:22 61S	18:10 255		18:57
2024 Feb 10 (Sat)	05:47	06:35 105		12:22 61S	18:10 255		18:58
2024 Feb 11 (Sun)	05:47	06:34 105		12:22 62S	18:11 256		18:58
2024 Feb 12 (Mon)	05:47	06:34 104		12:22 62S	18:11 256		18:58
2024 Feb 13 (Tue)	05:46	06:34 104		12:22 62S	18:11 256		18:59
2024 Feb 14 (Wed)	05:46	06:33 104		12:22 63S	18:12 257		18:59
2024 Feb 15 (Thu)	05:46	06:33 103		12:22 63S	18:12 257		18:59
2024 Feb 16 (Fri)	05:45	06:32 103		12:22 63S	18:12 257		19:00
2024 Feb 17 (Sat)	05:45	06:32 102		12:22 64S	18:13 258		19:00
2024 Feb 18 (Sun)	05:45	06:32 102		12:22 64S	18:13 258		19:00
2024 Feb 19 (Mon)	05:44	06:31 102		12:22 64S	18:13 258		19:00
2024 Feb 20 (Tue)	05:44	06:31 101		12:22 65S	18:14 259		19:01
2024 Feb 21 (Wed)	05:43	06:30 101		12:22 65S	18:14 259		19:01
2024 Feb 22 (Thu)	05:43	06:30 101		12:22 65S	18:14 260		19:01
2024 Feb 23 (Fri)	05:42	06:29 100		12:22 66S	18:14 260		19:01
2024 Feb 24 (Sat)	05:42	06:29 100		12:22 66S	18:15 260		19:01

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

2024	May	02	(Thu)	04:56	05:45	74	12:05	90N	18:26	286	19:15
2024	May	03	(Fri)	04:56	05:44	73	12:05	90N	18:26	287	19:15
2024	May	04	(Sat)	04:55	05:44	73	12:05	90N	18:26	287	19:15
2024	May	05	(Sun)	04:55	05:43	73	12:05	89N	18:27	287	19:16
2024	May	06	(Mon)	04:54	05:43	73	12:05	89N	18:27	288	19:16
2024	May	07	(Tue)	04:54	05:43	72	12:05	89N	18:27	288	19:16
2024	May	08	(Wed)	04:53	05:42	72	12:05	88N	18:27	288	19:17
2024	May	09	(Thu)	04:53	05:42	72	12:05	88N	18:28	288	19:17
2024	May	10	(Fri)	04:52	05:42	71	12:05	88N	18:28	289	19:17
2024	May	11	(Sat)	04:52	05:41	71	12:05	88N	18:28	289	19:18
2024	May	12	(Sun)	04:51	05:41	71	12:05	87N	18:29	289	19:18
2024	May	13	(Mon)	04:51	05:41	71	12:05	87N	18:29	289	19:18
2024	May	14	(Tue)	04:51	05:40	70	12:05	87N	18:29	290	19:19
2024	May	15	(Wed)	04:50	05:40	70	12:05	87N	18:29	290	19:19
2024	May	16	(Thu)	04:50	05:40	70	12:05	86N	18:30	290	19:20
2024	May	17	(Fri)	04:50	05:40	70	12:05	86N	18:30	290	19:20
2024	May	18	(Sat)	04:49	05:39	69	12:05	86N	18:30	291	19:20
2024	May	19	(Sun)	04:49	05:39	69	12:05	86N	18:31	291	19:21
2024	May	20	(Mon)	04:49	05:39	69	12:05	86N	18:31	291	19:21
2024	May	21	(Tue)	04:48	05:39	69	12:05	85N	18:31	291	19:22
2024	May	22	(Wed)	04:48	05:38	69	12:05	85N	18:32	292	19:22
2024	May	23	(Thu)	04:48	05:38	68	12:05	85N	18:32	292	19:22
2024	May	24	(Fri)	04:48	05:38	68	12:05	85N	18:32	292	19:23
2024	May	25	(Sat)	04:47	05:38	68	12:05	85N	18:33	292	19:23
2024	May	26	(Sun)	04:47	05:38	68	12:05	84N	18:33	292	19:24
2024	May	27	(Mon)	04:47	05:38	68	12:05	84N	18:33	292	19:24
2024	May	28	(Tue)	04:47	05:38	67	12:06	84N	18:34	293	19:24
2024	May	29	(Wed)	04:47	05:38	67	12:06	84N	18:34	293	19:25
2024	May	30	(Thu)	04:47	05:38	67	12:06	84N	18:34	293	19:25
2024	May	31	(Fri)	04:47	05:38	67	12:06	84N	18:35	293	19:26
2024	Jun	01	(Sat)	04:47	05:38	67	12:06	84N	18:35	293	19:26
2024	Jun	02	(Sun)	04:46	05:38	67	12:06	83N	18:35	293	19:26
2024	Jun	03	(Mon)	04:46	05:38	67	12:06	83N	18:36	293	19:27
2024	Jun	04	(Tue)	04:46	05:38	66	12:07	83N	18:36	294	19:27
2024	Jun	05	(Wed)	04:46	05:38	66	12:07	83N	18:36	294	19:27
2024	Jun	06	(Thu)	04:46	05:38	66	12:07	83N	18:36	294	19:28
2024	Jun	07	(Fri)	04:46	05:38	66	12:07	83N	18:37	294	19:28
2024	Jun	08	(Sat)	04:46	05:38	66	12:07	83N	18:37	294	19:28
2024	Jun	09	(Sun)	04:46	05:38	66	12:08	83N	18:37	294	19:29
2024	Jun	10	(Mon)	04:47	05:38	66	12:08	83N	18:38	294	19:29
2024	Jun	11	(Tue)	04:47	05:38	66	12:08	83N	18:38	294	19:29
2024	Jun	12	(Wed)	04:47	05:38	66	12:08	82N	18:38	294	19:30
2024	Jun	13	(Thu)	04:47	05:38	66	12:08	82N	18:39	294	19:30
2024	Jun	14	(Fri)	04:47	05:38	66	12:09	82N	18:39	294	19:30
2024	Jun	15	(Sat)	04:47	05:39	66	12:09	82N	18:39	294	19:31
2024	Jun	16	(Sun)	04:47	05:39	66	12:09	82N	18:39	294	19:31
2024	Jun	17	(Mon)	04:47	05:39	66	12:09	82N	18:40	295	19:31
2024	Jun	18	(Tue)	04:48	05:39	65	12:09	82N	18:40	295	19:31
2024	Jun	19	(Wed)	04:48	05:39	65	12:10	82N	18:40	295	19:32
2024	Jun	20	(Thu)	04:48	05:40	65	12:10	82N	18:40	295	19:32
2024	Jun	21	(Fri)	04:48	05:40	65	12:10	82N	18:41	295	19:32
2024	Jun	22	(Sat)	04:48	05:40	65	12:10	82N	18:41	295	19:32
2024	Jun	23	(Sun)	04:49	05:40	65	12:11	82N	18:41	295	19:33
2024	Jun	24	(Mon)	04:49	05:40	65	12:11	82N	18:41	295	19:33
2024	Jun	25	(Tue)	04:49	05:41	66	12:11	82N	18:41	294	19:33
2024	Jun	26	(Wed)	04:49	05:41	66	12:11	82N	18:41	294	19:33
2024	Jun	27	(Thu)	04:50	05:41	66	12:11	82N	18:42	294	19:33
2024	Jun	28	(Fri)	04:50	05:41	66	12:12	82N	18:42	294	19:33
2024	Jun	29	(Sat)	04:50	05:42	66	12:12	82N	18:42	294	19:33
2024	Jun	30	(Sun)	04:50	05:42	66	12:12	83N	18:42	294	19:33
2024	Jul	01	(Mon)	04:51	05:42	66	12:12	83N	18:42	294	19:34
2024	Jul	02	(Tue)	04:51	05:43	66	12:12	83N	18:42	294	19:34
2024	Jul	03	(Wed)	04:51	05:43	66	12:13	83N	18:42	294	19:34
2024	Jul	04	(Thu)	04:52	05:43	66	12:13	83N	18:42	294	19:34
2024	Jul	05	(Fri)	04:52	05:43	66	12:13	83N	18:42	294	19:34
2024	Jul	06	(Sat)	04:52	05:44	66	12:13	83N	18:42	294	19:34
2024	Jul	07	(Sun)	04:53	05:44	66	12:13	83N	18:42	294	19:34

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

2024	Sep	13	(Fri)	05:10	05:57	86	12:04	79S	18:11	274	18:58
2024	Sep	14	(Sat)	05:10	05:57	86	12:04	79S	18:10	273	18:57
2024	Sep	15	(Sun)	05:11	05:57	87	12:03	79S	18:10	273	18:56
2024	Sep	16	(Mon)	05:11	05:57	87	12:03	78S	18:09	273	18:55
2024	Sep	17	(Tue)	05:11	05:57	88	12:03	78S	18:08	272	18:54
2024	Sep	18	(Wed)	05:11	05:57	88	12:02	77S	18:07	272	18:54
2024	Sep	19	(Thu)	05:11	05:57	88	12:02	77S	18:07	271	18:53
2024	Sep	20	(Fri)	05:11	05:57	89	12:02	77S	18:06	271	18:52
2024	Sep	21	(Sat)	05:11	05:57	89	12:01	76S	18:05	271	18:51
2024	Sep	22	(Sun)	05:11	05:57	90	12:01	76S	18:04	270	18:51
2024	Sep	23	(Mon)	05:11	05:57	90	12:01	76S	18:04	270	18:50
2024	Sep	24	(Tue)	05:11	05:57	90	12:00	75S	18:03	269	18:49
2024	Sep	25	(Wed)	05:11	05:58	91	12:00	75S	18:02	269	18:48
2024	Sep	26	(Thu)	05:11	05:58	91	12:00	74S	18:01	269	18:47
2024	Sep	27	(Fri)	05:11	05:58	92	11:59	74S	18:00	268	18:47
2024	Sep	28	(Sat)	05:11	05:58	92	11:59	74S	18:00	268	18:46
2024	Sep	29	(Sun)	05:12	05:58	92	11:59	73S	17:59	267	18:45
2024	Sep	30	(Mon)	05:12	05:58	93	11:58	73S	17:58	267	18:44
2024	Oct	01	(Tue)	05:12	05:58	93	11:58	72S	17:58	267	18:44
2024	Oct	02	(Wed)	05:12	05:58	94	11:58	72S	17:57	266	18:43
2024	Oct	03	(Thu)	05:12	05:58	94	11:57	72S	17:56	266	18:42
2024	Oct	04	(Fri)	05:12	05:58	94	11:57	71S	17:55	265	18:42
2024	Oct	05	(Sat)	05:12	05:58	95	11:57	71S	17:55	265	18:41
2024	Oct	06	(Sun)	05:12	05:59	95	11:56	70S	17:54	265	18:40
2024	Oct	07	(Mon)	05:12	05:59	96	11:56	70S	17:53	264	18:40
2024	Oct	08	(Tue)	05:12	05:59	96	11:56	70S	17:53	264	18:39
2024	Oct	09	(Wed)	05:12	05:59	96	11:55	69S	17:52	263	18:38
2024	Oct	10	(Thu)	05:13	05:59	97	11:55	69S	17:51	263	18:38
2024	Oct	11	(Fri)	05:13	05:59	97	11:55	69S	17:51	263	18:37
2024	Oct	12	(Sat)	05:13	05:59	98	11:55	68S	17:50	262	18:36
2024	Oct	13	(Sun)	05:13	05:59	98	11:54	68S	17:49	262	18:36
2024	Oct	14	(Mon)	05:13	06:00	98	11:54	67S	17:49	262	18:35
2024	Oct	15	(Tue)	05:13	06:00	99	11:54	67S	17:48	261	18:35
2024	Oct	16	(Wed)	05:13	06:00	99	11:54	67S	17:47	261	18:34
2024	Oct	17	(Thu)	05:13	06:00	99	11:54	66S	17:47	260	18:33
2024	Oct	18	(Fri)	05:14	06:00	100	11:53	66S	17:46	260	18:33
2024	Oct	19	(Sat)	05:14	06:01	100	11:53	66S	17:46	260	18:32
2024	Oct	20	(Sun)	05:14	06:01	101	11:53	65S	17:45	259	18:32
2024	Oct	21	(Mon)	05:14	06:01	101	11:53	65S	17:44	259	18:31
2024	Oct	22	(Tue)	05:14	06:01	101	11:53	65S	17:44	259	18:31
2024	Oct	23	(Wed)	05:15	06:01	102	11:53	64S	17:43	258	18:30
2024	Oct	24	(Thu)	05:15	06:02	102	11:52	64S	17:43	258	18:30
2024	Oct	25	(Fri)	05:15	06:02	102	11:52	64S	17:42	257	18:30
2024	Oct	26	(Sat)	05:15	06:02	103	11:52	63S	17:42	257	18:29
2024	Oct	27	(Sun)	05:15	06:03	103	11:52	63S	17:41	257	18:29
2024	Oct	28	(Mon)	05:16	06:03	103	11:52	62S	17:41	256	18:28
2024	Oct	29	(Tue)	05:16	06:03	104	11:52	62S	17:41	256	18:28
2024	Oct	30	(Wed)	05:16	06:03	104	11:52	62S	17:40	256	18:28
2024	Oct	31	(Thu)	05:16	06:04	104	11:52	62S	17:40	255	18:27
2024	Nov	01	(Fri)	05:17	06:04	105	11:52	61S	17:39	255	18:27
2024	Nov	02	(Sat)	05:17	06:04	105	11:52	61S	17:39	255	18:27
2024	Nov	03	(Sun)	05:17	06:05	105	11:52	61S	17:39	254	18:26
2024	Nov	04	(Mon)	05:17	06:05	106	11:52	60S	17:38	254	18:26
2024	Nov	05	(Tue)	05:18	06:06	106	11:52	60S	17:38	254	18:26
2024	Nov	06	(Wed)	05:18	06:06	106	11:52	60S	17:38	253	18:26
2024	Nov	07	(Thu)	05:18	06:06	107	11:52	59S	17:37	253	18:25
2024	Nov	08	(Fri)	05:19	06:07	107	11:52	59S	17:37	253	18:25
2024	Nov	09	(Sat)	05:19	06:07	107	11:52	59S	17:37	253	18:25
2024	Nov	10	(Sun)	05:19	06:08	108	11:52	59S	17:37	252	18:25
2024	Nov	11	(Mon)	05:20	06:08	108	11:52	58S	17:37	252	18:25
2024	Nov	12	(Tue)	05:20	06:08	108	11:52	58S	17:36	252	18:25
2024	Nov	13	(Wed)	05:20	06:09	108	11:53	58S	17:36	251	18:25
2024	Nov	14	(Thu)	05:21	06:09	109	11:53	57S	17:36	251	18:24
2024	Nov	15	(Fri)	05:21	06:10	109	11:53	57S	17:36	251	18:24
2024	Nov	16	(Sat)	05:22	06:10	109	11:53	57S	17:36	251	18:24
2024	Nov	17	(Sun)	05:22	06:11	109	11:53	57S	17:36	250	18:24
2024	Nov	18	(Mon)	05:22	06:11	110	11:53	56S	17:36	250	18:24

2024	Nov	19	(Tue)	05:23	06:12	110	11:54	56S	17:36	250	18:24
2024	Nov	20	(Wed)	05:23	06:12	110	11:54	56S	17:36	250	18:24
2024	Nov	21	(Thu)	05:24	06:13	110	11:54	56S	17:36	249	18:24
2024	Nov	22	(Fri)	05:24	06:13	111	11:54	56S	17:36	249	18:25
2024	Nov	23	(Sat)	05:25	06:14	111	11:55	55S	17:36	249	18:25
2024	Nov	24	(Sun)	05:25	06:14	111	11:55	55S	17:36	249	18:25
2024	Nov	25	(Mon)	05:26	06:15	111	11:55	55S	17:36	249	18:25
2024	Nov	26	(Tue)	05:26	06:15	112	11:56	55S	17:36	248	18:25
2024	Nov	27	(Wed)	05:27	06:16	112	11:56	55S	17:36	248	18:25
2024	Nov	28	(Thu)	05:27	06:16	112	11:56	54S	17:36	248	18:25
2024	Nov	29	(Fri)	05:28	06:17	112	11:57	54S	17:36	248	18:26
2024	Nov	30	(Sat)	05:28	06:18	112	11:57	54S	17:36	248	18:26
2024	Dec	01	(Sun)	05:29	06:18	112	11:57	54S	17:37	248	18:26
2024	Dec	02	(Mon)	05:29	06:19	113	11:58	54S	17:37	247	18:26
2024	Dec	03	(Tue)	05:30	06:19	113	11:58	54S	17:37	247	18:27
2024	Dec	04	(Wed)	05:30	06:20	113	11:59	53S	17:37	247	18:27
2024	Dec	05	(Thu)	05:31	06:20	113	11:59	53S	17:37	247	18:27
2024	Dec	06	(Fri)	05:31	06:21	113	11:59	53S	17:38	247	18:28
2024	Dec	07	(Sat)	05:32	06:21	113	12:00	53S	17:38	247	18:28
2024	Dec	08	(Sun)	05:32	06:22	113	12:00	53S	17:38	247	18:28
2024	Dec	09	(Mon)	05:33	06:23	113	12:01	53S	17:39	247	18:29
2024	Dec	10	(Tue)	05:33	06:23	114	12:01	53S	17:39	246	18:29
2024	Dec	11	(Wed)	05:34	06:24	114	12:02	53S	17:39	246	18:29
2024	Dec	12	(Thu)	05:34	06:24	114	12:02	53S	17:40	246	18:30
2024	Dec	13	(Fri)	05:35	06:25	114	12:03	53S	17:40	246	18:30
2024	Dec	14	(Sat)	05:35	06:25	114	12:03	53S	17:41	246	18:31
2024	Dec	15	(Sun)	05:36	06:26	114	12:03	52S	17:41	246	18:31
2024	Dec	16	(Mon)	05:36	06:26	114	12:04	52S	17:41	246	18:31
2024	Dec	17	(Tue)	05:37	06:27	114	12:04	52S	17:42	246	18:32
2024	Dec	18	(Wed)	05:37	06:28	114	12:05	52S	17:42	246	18:32
2024	Dec	19	(Thu)	05:38	06:28	114	12:05	52S	17:43	246	18:33
2024	Dec	20	(Fri)	05:38	06:29	114	12:06	52S	17:43	246	18:33
2024	Dec	21	(Sat)	05:39	06:29	114	12:06	52S	17:44	246	18:34
2024	Dec	22	(Sun)	05:39	06:30	114	12:07	52S	17:44	246	18:34
2024	Dec	23	(Mon)	05:40	06:30	114	12:07	52S	17:45	246	18:35
2024	Dec	24	(Tue)	05:40	06:31	114	12:08	52S	17:45	246	18:35
2024	Dec	25	(Wed)	05:41	06:31	114	12:08	52S	17:46	246	18:36
2024	Dec	26	(Thu)	05:41	06:31	114	12:09	52S	17:46	246	18:36
2024	Dec	27	(Fri)	05:42	06:32	114	12:09	52S	17:47	246	18:37
2024	Dec	28	(Sat)	05:42	06:32	114	12:10	53S	17:47	246	18:38
2024	Dec	29	(Sun)	05:43	06:33	114	12:10	53S	17:48	246	18:38
2024	Dec	30	(Mon)	05:43	06:33	114	12:11	53S	17:49	246	18:39
2024	Dec	31	(Tue)	05:44	06:34	114	12:11	53S	17:49	246	18:39

Sun

VTEN

Location: E102°56'00.0", N14°56'00.0", 729m
(Longitude referred to Greenwich meridian)

Time Zone: 7h 00m east of Greenwich

Date (Zone)	Begin Civil Twilight h m	Rise h m °	Az. °	Transit Alt. h m °	Set h m °	Az. °	End Civil Twilight h m				
2024	Jan	01	(Mon)	06:10	06:34	114	12:11	53S	17:49	246	18:13
2024	Jan	02	(Tue)	06:11	06:34	114	12:12	53S	17:50	246	18:13
2024	Jan	03	(Wed)	06:11	06:34	113	12:12	53S	17:50	247	18:14
2024	Jan	04	(Thu)	06:12	06:35	113	12:13	53S	17:51	247	18:14
2024	Jan	05	(Fri)	06:12	06:35	113	12:13	53S	17:52	247	18:15
2024	Jan	06	(Sat)	06:12	06:35	113	12:14	53S	17:52	247	18:15
2024	Jan	07	(Sun)	06:13	06:36	113	12:14	53S	17:53	247	18:16
2024	Jan	08	(Mon)	06:13	06:36	113	12:15	53S	17:53	247	18:16
2024	Jan	09	(Tue)	06:13	06:36	113	12:15	54S	17:54	247	18:17
2024	Jan	10	(Wed)	06:13	06:36	113	12:15	54S	17:55	247	18:18
2024	Jan	11	(Thu)	06:14	06:37	112	12:16	54S	17:55	248	18:18

2024	Jan	12	(Fri)	06:14	06:37	112	12:16	54S	17:56	248	18:19
2024	Jan	13	(Sat)	06:14	06:37	112	12:17	54S	17:56	248	18:19
2024	Jan	14	(Sun)	06:14	06:37	112	12:17	54S	17:57	248	18:20
2024	Jan	15	(Mon)	06:14	06:37	112	12:17	55S	17:57	248	18:20
2024	Jan	16	(Tue)	06:15	06:38	112	12:18	55S	17:58	248	18:21
2024	Jan	17	(Wed)	06:15	06:38	111	12:18	55S	17:59	249	18:21
2024	Jan	18	(Thu)	06:15	06:38	111	12:18	55S	17:59	249	18:22
2024	Jan	19	(Fri)	06:15	06:38	111	12:19	55S	18:00	249	18:23
2024	Jan	20	(Sat)	06:15	06:38	111	12:19	56S	18:00	249	18:23
2024	Jan	21	(Sun)	06:15	06:38	111	12:19	56S	18:01	250	18:24
2024	Jan	22	(Mon)	06:15	06:38	110	12:20	56S	18:01	250	18:24
2024	Jan	23	(Tue)	06:15	06:38	110	12:20	56S	18:02	250	18:25
2024	Jan	24	(Wed)	06:15	06:38	110	12:20	56S	18:02	250	18:25
2024	Jan	25	(Thu)	06:15	06:38	110	12:20	57S	18:03	251	18:26
2024	Jan	26	(Fri)	06:15	06:38	109	12:21	57S	18:04	251	18:26
2024	Jan	27	(Sat)	06:15	06:38	109	12:21	57S	18:04	251	18:27
2024	Jan	28	(Sun)	06:15	06:38	109	12:21	57S	18:05	251	18:27
2024	Jan	29	(Mon)	06:15	06:38	109	12:21	58S	18:05	252	18:27
2024	Jan	30	(Tue)	06:15	06:37	108	12:21	58S	18:06	252	18:28
2024	Jan	31	(Wed)	06:15	06:37	108	12:22	58S	18:06	252	18:28
2024	Feb	01	(Thu)	06:15	06:37	108	12:22	59S	18:06	252	18:29
2024	Feb	02	(Fri)	06:15	06:37	107	12:22	59S	18:07	253	18:29
2024	Feb	03	(Sat)	06:14	06:37	107	12:22	59S	18:07	253	18:30
2024	Feb	04	(Sun)	06:14	06:37	107	12:22	59S	18:08	253	18:30
2024	Feb	05	(Mon)	06:14	06:36	106	12:22	60S	18:08	254	18:30
2024	Feb	06	(Tue)	06:14	06:36	106	12:22	60S	18:09	254	18:31
2024	Feb	07	(Wed)	06:14	06:36	106	12:22	60S	18:09	254	18:31
2024	Feb	08	(Thu)	06:13	06:35	106	12:22	61S	18:09	255	18:32
2024	Feb	09	(Fri)	06:13	06:35	105	12:22	61S	18:10	255	18:32
2024	Feb	10	(Sat)	06:13	06:35	105	12:22	61S	18:10	255	18:32
2024	Feb	11	(Sun)	06:12	06:34	105	12:22	62S	18:11	256	18:33
2024	Feb	12	(Mon)	06:12	06:34	104	12:22	62S	18:11	256	18:33
2024	Feb	13	(Tue)	06:12	06:34	104	12:22	62S	18:11	256	18:33
2024	Feb	14	(Wed)	06:11	06:33	104	12:22	63S	18:12	257	18:34
2024	Feb	15	(Thu)	06:11	06:33	103	12:22	63S	18:12	257	18:34
2024	Feb	16	(Fri)	06:11	06:32	103	12:22	63S	18:12	257	18:34
2024	Feb	17	(Sat)	06:10	06:32	102	12:22	64S	18:13	258	18:35
2024	Feb	18	(Sun)	06:10	06:32	102	12:22	64S	18:13	258	18:35
2024	Feb	19	(Mon)	06:09	06:31	102	12:22	64S	18:13	258	18:35
2024	Feb	20	(Tue)	06:09	06:31	101	12:22	65S	18:14	259	18:35
2024	Feb	21	(Wed)	06:08	06:30	101	12:22	65S	18:14	259	18:36
2024	Feb	22	(Thu)	06:08	06:30	101	12:22	65S	18:14	260	18:36
2024	Feb	23	(Fri)	06:07	06:29	100	12:22	66S	18:14	260	18:36
2024	Feb	24	(Sat)	06:07	06:29	100	12:22	66S	18:15	260	18:36
2024	Feb	25	(Sun)	06:06	06:28	99	12:21	66S	18:15	261	18:37
2024	Feb	26	(Mon)	06:06	06:27	99	12:21	67S	18:15	261	18:37
2024	Feb	27	(Tue)	06:05	06:27	99	12:21	67S	18:15	261	18:37
2024	Feb	28	(Wed)	06:05	06:26	98	12:21	68S	18:16	262	18:37
2024	Feb	29	(Thu)	06:04	06:26	98	12:21	68S	18:16	262	18:37
2024	Mar	01	(Fri)	06:04	06:25	98	12:21	68S	18:16	263	18:38
2024	Mar	02	(Sat)	06:03	06:25	97	12:20	69S	18:16	263	18:38
2024	Mar	03	(Sun)	06:02	06:24	97	12:20	69S	18:17	263	18:38
2024	Mar	04	(Mon)	06:02	06:23	96	12:20	70S	18:17	264	18:38
2024	Mar	05	(Tue)	06:01	06:23	96	12:20	70S	18:17	264	18:38
2024	Mar	06	(Wed)	06:01	06:22	96	12:19	70S	18:17	265	18:39
2024	Mar	07	(Thu)	06:00	06:21	95	12:19	71S	18:17	265	18:39
2024	Mar	08	(Fri)	05:59	06:21	95	12:19	71S	18:17	265	18:39
2024	Mar	09	(Sat)	05:59	06:20	94	12:19	71S	18:18	266	18:39
2024	Mar	10	(Sun)	05:58	06:19	94	12:18	72S	18:18	266	18:39
2024	Mar	11	(Mon)	05:57	06:19	94	12:18	72S	18:18	267	18:39
2024	Mar	12	(Tue)	05:57	06:18	93	12:18	73S	18:18	267	18:39
2024	Mar	13	(Wed)	05:56	06:17	93	12:18	73S	18:18	267	18:40
2024	Mar	14	(Thu)	05:55	06:17	92	12:17	73S	18:18	268	18:40
2024	Mar	15	(Fri)	05:55	06:16	92	12:17	74S	18:19	268	18:40
2024	Mar	16	(Sat)	05:54	06:15	91	12:17	74S	18:19	269	18:40
2024	Mar	17	(Sun)	05:53	06:15	91	12:17	75S	18:19	269	18:40
2024	Mar	18	(Mon)	05:52	06:14	91	12:16	75S	18:19	270	18:40

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

2024	May	25	(Sat)	05:15	05:38	68	12:05	85N	18:33	292	18:56
2024	May	26	(Sun)	05:15	05:38	68	12:05	84N	18:33	292	18:56
2024	May	27	(Mon)	05:15	05:38	68	12:05	84N	18:33	292	18:57
2024	May	28	(Tue)	05:14	05:38	67	12:06	84N	18:34	293	18:57
2024	May	29	(Wed)	05:14	05:38	67	12:06	84N	18:34	293	18:57
2024	May	30	(Thu)	05:14	05:38	67	12:06	84N	18:34	293	18:58
2024	May	31	(Fri)	05:14	05:38	67	12:06	84N	18:35	293	18:58
2024	Jun	01	(Sat)	05:14	05:38	67	12:06	84N	18:35	293	18:58
2024	Jun	02	(Sun)	05:14	05:38	67	12:06	83N	18:35	293	18:59
2024	Jun	03	(Mon)	05:14	05:38	67	12:06	83N	18:36	293	18:59
2024	Jun	04	(Tue)	05:14	05:38	66	12:07	83N	18:36	294	18:59
2024	Jun	05	(Wed)	05:14	05:38	66	12:07	83N	18:36	294	19:00
2024	Jun	06	(Thu)	05:14	05:38	66	12:07	83N	18:36	294	19:00
2024	Jun	07	(Fri)	05:14	05:38	66	12:07	83N	18:37	294	19:00
2024	Jun	08	(Sat)	05:14	05:38	66	12:07	83N	18:37	294	19:01
2024	Jun	09	(Sun)	05:14	05:38	66	12:08	83N	18:37	294	19:01
2024	Jun	10	(Mon)	05:14	05:38	66	12:08	83N	18:38	294	19:01
2024	Jun	11	(Tue)	05:14	05:38	66	12:08	83N	18:38	294	19:02
2024	Jun	12	(Wed)	05:15	05:38	66	12:08	82N	18:38	294	19:02
2024	Jun	13	(Thu)	05:15	05:38	66	12:08	82N	18:39	294	19:02
2024	Jun	14	(Fri)	05:15	05:38	66	12:09	82N	18:39	294	19:02
2024	Jun	15	(Sat)	05:15	05:39	66	12:09	82N	18:39	294	19:03
2024	Jun	16	(Sun)	05:15	05:39	66	12:09	82N	18:39	294	19:03
2024	Jun	17	(Mon)	05:15	05:39	66	12:09	82N	18:40	295	19:03
2024	Jun	18	(Tue)	05:15	05:39	65	12:09	82N	18:40	295	19:04
2024	Jun	19	(Wed)	05:16	05:39	65	12:10	82N	18:40	295	19:04
2024	Jun	20	(Thu)	05:16	05:40	65	12:10	82N	18:40	295	19:04
2024	Jun	21	(Fri)	05:16	05:40	65	12:10	82N	18:41	295	19:04
2024	Jun	22	(Sat)	05:16	05:40	65	12:10	82N	18:41	295	19:04
2024	Jun	23	(Sun)	05:17	05:40	65	12:11	82N	18:41	295	19:05
2024	Jun	24	(Mon)	05:17	05:40	65	12:11	82N	18:41	295	19:05
2024	Jun	25	(Tue)	05:17	05:41	66	12:11	82N	18:41	294	19:05
2024	Jun	26	(Wed)	05:17	05:41	66	12:11	82N	18:41	294	19:05
2024	Jun	27	(Thu)	05:18	05:41	66	12:11	82N	18:42	294	19:05
2024	Jun	28	(Fri)	05:18	05:41	66	12:12	82N	18:42	294	19:05
2024	Jun	29	(Sat)	05:18	05:42	66	12:12	82N	18:42	294	19:05
2024	Jun	30	(Sun)	05:18	05:42	66	12:12	83N	18:42	294	19:06
2024	Jul	01	(Mon)	05:19	05:42	66	12:12	83N	18:42	294	19:06
2024	Jul	02	(Tue)	05:19	05:43	66	12:12	83N	18:42	294	19:06
2024	Jul	03	(Wed)	05:19	05:43	66	12:13	83N	18:42	294	19:06
2024	Jul	04	(Thu)	05:20	05:43	66	12:13	83N	18:42	294	19:06
2024	Jul	05	(Fri)	05:20	05:43	66	12:13	83N	18:42	294	19:06
2024	Jul	06	(Sat)	05:20	05:44	66	12:13	83N	18:42	294	19:06
2024	Jul	07	(Sun)	05:21	05:44	66	12:13	83N	18:42	294	19:06
2024	Jul	08	(Mon)	05:21	05:44	66	12:13	83N	18:42	293	19:06
2024	Jul	09	(Tue)	05:21	05:45	67	12:14	83N	18:42	293	19:06
2024	Jul	10	(Wed)	05:22	05:45	67	12:14	83N	18:42	293	19:06
2024	Jul	11	(Thu)	05:22	05:45	67	12:14	84N	18:42	293	19:06
2024	Jul	12	(Fri)	05:22	05:46	67	12:14	84N	18:42	293	19:06
2024	Jul	13	(Sat)	05:22	05:46	67	12:14	84N	18:42	293	19:06
2024	Jul	14	(Sun)	05:23	05:46	67	12:14	84N	18:42	293	19:05
2024	Jul	15	(Mon)	05:23	05:46	67	12:14	84N	18:42	292	19:05
2024	Jul	16	(Tue)	05:23	05:47	68	12:14	84N	18:42	292	19:05
2024	Jul	17	(Wed)	05:24	05:47	68	12:14	85N	18:42	292	19:05
2024	Jul	18	(Thu)	05:24	05:47	68	12:15	85N	18:42	292	19:05
2024	Jul	19	(Fri)	05:24	05:48	68	12:15	85N	18:41	292	19:05
2024	Jul	20	(Sat)	05:25	05:48	68	12:15	85N	18:41	292	19:04
2024	Jul	21	(Sun)	05:25	05:48	69	12:15	85N	18:41	291	19:04
2024	Jul	22	(Mon)	05:25	05:49	69	12:15	85N	18:41	291	19:04
2024	Jul	23	(Tue)	05:26	05:49	69	12:15	86N	18:41	291	19:04
2024	Jul	24	(Wed)	05:26	05:49	69	12:15	86N	18:40	291	19:03
2024	Jul	25	(Thu)	05:26	05:49	69	12:15	86N	18:40	290	19:03
2024	Jul	26	(Fri)	05:27	05:50	70	12:15	86N	18:40	290	19:03
2024	Jul	27	(Sat)	05:27	05:50	70	12:15	87N	18:40	290	19:02
2024	Jul	28	(Sun)	05:27	05:50	70	12:15	87N	18:39	290	19:02
2024	Jul	29	(Mon)	05:28	05:50	70	12:15	87N	18:39	289	19:02
2024	Jul	30	(Tue)	05:28	05:51	71	12:15	87N	18:39	289	19:01

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

2024	Oct	06	(Sun)	05:37	05:59	95	11:56	70S	17:54	265	18:15
2024	Oct	07	(Mon)	05:37	05:59	96	11:56	70S	17:53	264	18:15
2024	Oct	08	(Tue)	05:37	05:59	96	11:56	70S	17:53	264	18:14
2024	Oct	09	(Wed)	05:37	05:59	96	11:55	69S	17:52	263	18:13
2024	Oct	10	(Thu)	05:38	05:59	97	11:55	69S	17:51	263	18:13
2024	Oct	11	(Fri)	05:38	05:59	97	11:55	69S	17:51	263	18:12
2024	Oct	12	(Sat)	05:38	05:59	98	11:55	68S	17:50	262	18:11
2024	Oct	13	(Sun)	05:38	05:59	98	11:54	68S	17:49	262	18:11
2024	Oct	14	(Mon)	05:38	06:00	98	11:54	67S	17:49	262	18:10
2024	Oct	15	(Tue)	05:38	06:00	99	11:54	67S	17:48	261	18:10
2024	Oct	16	(Wed)	05:38	06:00	99	11:54	67S	17:47	261	18:09
2024	Oct	17	(Thu)	05:39	06:00	99	11:54	66S	17:47	260	18:08
2024	Oct	18	(Fri)	05:39	06:00	100	11:53	66S	17:46	260	18:08
2024	Oct	19	(Sat)	05:39	06:01	100	11:53	66S	17:46	260	18:07
2024	Oct	20	(Sun)	05:39	06:01	101	11:53	65S	17:45	259	18:07
2024	Oct	21	(Mon)	05:39	06:01	101	11:53	65S	17:44	259	18:06
2024	Oct	22	(Tue)	05:39	06:01	101	11:53	65S	17:44	259	18:06
2024	Oct	23	(Wed)	05:40	06:01	102	11:53	64S	17:43	258	18:05
2024	Oct	24	(Thu)	05:40	06:02	102	11:52	64S	17:43	258	18:05
2024	Oct	25	(Fri)	05:40	06:02	102	11:52	64S	17:42	257	18:04
2024	Oct	26	(Sat)	05:40	06:02	103	11:52	63S	17:42	257	18:04
2024	Oct	27	(Sun)	05:41	06:03	103	11:52	63S	17:41	257	18:03
2024	Oct	28	(Mon)	05:41	06:03	103	11:52	62S	17:41	256	18:03
2024	Oct	29	(Tue)	05:41	06:03	104	11:52	62S	17:41	256	18:03
2024	Oct	30	(Wed)	05:41	06:03	104	11:52	62S	17:40	256	18:02
2024	Oct	31	(Thu)	05:42	06:04	104	11:52	62S	17:40	255	18:02
2024	Nov	01	(Fri)	05:42	06:04	105	11:52	61S	17:39	255	18:01
2024	Nov	02	(Sat)	05:42	06:04	105	11:52	61S	17:39	255	18:01
2024	Nov	03	(Sun)	05:43	06:05	105	11:52	61S	17:39	254	18:01
2024	Nov	04	(Mon)	05:43	06:05	106	11:52	60S	17:38	254	18:01
2024	Nov	05	(Tue)	05:43	06:06	106	11:52	60S	17:38	254	18:00
2024	Nov	06	(Wed)	05:44	06:06	106	11:52	60S	17:38	253	18:00
2024	Nov	07	(Thu)	05:44	06:06	107	11:52	59S	17:37	253	18:00
2024	Nov	08	(Fri)	05:44	06:07	107	11:52	59S	17:37	253	17:59
2024	Nov	09	(Sat)	05:45	06:07	107	11:52	59S	17:37	253	17:59
2024	Nov	10	(Sun)	05:45	06:08	108	11:52	59S	17:37	252	17:59
2024	Nov	11	(Mon)	05:46	06:08	108	11:52	58S	17:37	252	17:59
2024	Nov	12	(Tue)	05:46	06:08	108	11:52	58S	17:36	252	17:59
2024	Nov	13	(Wed)	05:46	06:09	108	11:53	58S	17:36	251	17:59
2024	Nov	14	(Thu)	05:47	06:09	109	11:53	57S	17:36	251	17:59
2024	Nov	15	(Fri)	05:47	06:10	109	11:53	57S	17:36	251	17:58
2024	Nov	16	(Sat)	05:48	06:10	109	11:53	57S	17:36	251	17:58
2024	Nov	17	(Sun)	05:48	06:11	109	11:53	57S	17:36	250	17:58
2024	Nov	18	(Mon)	05:49	06:11	110	11:53	56S	17:36	250	17:58
2024	Nov	19	(Tue)	05:49	06:12	110	11:54	56S	17:36	250	17:58
2024	Nov	20	(Wed)	05:49	06:12	110	11:54	56S	17:36	250	17:58
2024	Nov	21	(Thu)	05:50	06:13	110	11:54	56S	17:36	249	17:58
2024	Nov	22	(Fri)	05:50	06:13	111	11:54	56S	17:36	249	17:58
2024	Nov	23	(Sat)	05:51	06:14	111	11:55	55S	17:36	249	17:58
2024	Nov	24	(Sun)	05:51	06:14	111	11:55	55S	17:36	249	17:58
2024	Nov	25	(Mon)	05:52	06:15	111	11:55	55S	17:36	249	17:59
2024	Nov	26	(Tue)	05:52	06:15	112	11:56	55S	17:36	248	17:59
2024	Nov	27	(Wed)	05:53	06:16	112	11:56	55S	17:36	248	17:59
2024	Nov	28	(Thu)	05:53	06:16	112	11:56	54S	17:36	248	17:59
2024	Nov	29	(Fri)	05:54	06:17	112	11:57	54S	17:36	248	17:59
2024	Nov	30	(Sat)	05:55	06:18	112	11:57	54S	17:36	248	17:59
2024	Dec	01	(Sun)	05:55	06:18	112	11:57	54S	17:37	248	18:00
2024	Dec	02	(Mon)	05:56	06:19	113	11:58	54S	17:37	247	18:00
2024	Dec	03	(Tue)	05:56	06:19	113	11:58	54S	17:37	247	18:00
2024	Dec	04	(Wed)	05:57	06:20	113	11:59	53S	17:37	247	18:00
2024	Dec	05	(Thu)	05:57	06:20	113	11:59	53S	17:37	247	18:01
2024	Dec	06	(Fri)	05:58	06:21	113	11:59	53S	17:38	247	18:01
2024	Dec	07	(Sat)	05:58	06:21	113	12:00	53S	17:38	247	18:01
2024	Dec	08	(Sun)	05:59	06:22	113	12:00	53S	17:38	247	18:02
2024	Dec	09	(Mon)	05:59	06:23	113	12:01	53S	17:39	247	18:02
2024	Dec	10	(Tue)	06:00	06:23	114	12:01	53S	17:39	246	18:02
2024	Dec	11	(Wed)	06:01	06:24	114	12:02	53S	17:39	246	18:03

2024	Dec	12	(Thu)	06:01	06:24	114	12:02	53S	17:40	246	18:03
2024	Dec	13	(Fri)	06:02	06:25	114	12:03	53S	17:40	246	18:03
2024	Dec	14	(Sat)	06:02	06:25	114	12:03	53S	17:41	246	18:04
2024	Dec	15	(Sun)	06:03	06:26	114	12:03	52S	17:41	246	18:04
2024	Dec	16	(Mon)	06:03	06:26	114	12:04	52S	17:41	246	18:05
2024	Dec	17	(Tue)	06:04	06:27	114	12:04	52S	17:42	246	18:05
2024	Dec	18	(Wed)	06:04	06:28	114	12:05	52S	17:42	246	18:06
2024	Dec	19	(Thu)	06:05	06:28	114	12:05	52S	17:43	246	18:06
2024	Dec	20	(Fri)	06:05	06:29	114	12:06	52S	17:43	246	18:07
2024	Dec	21	(Sat)	06:06	06:29	114	12:06	52S	17:44	246	18:07
2024	Dec	22	(Sun)	06:06	06:30	114	12:07	52S	17:44	246	18:08
2024	Dec	23	(Mon)	06:07	06:30	114	12:07	52S	17:45	246	18:08
2024	Dec	24	(Tue)	06:07	06:31	114	12:08	52S	17:45	246	18:09
2024	Dec	25	(Wed)	06:08	06:31	114	12:08	52S	17:46	246	18:09
2024	Dec	26	(Thu)	06:08	06:31	114	12:09	52S	17:46	246	18:10
2024	Dec	27	(Fri)	06:09	06:32	114	12:09	52S	17:47	246	18:10
2024	Dec	28	(Sat)	06:09	06:32	114	12:10	53S	17:47	246	18:11
2024	Dec	29	(Sun)	06:10	06:33	114	12:10	53S	17:48	246	18:11
2024	Dec	30	(Mon)	06:10	06:33	114	12:11	53S	17:49	246	18:12
2024	Dec	31	(Tue)	06:10	06:34	114	12:11	53S	17:49	246	18:12

Moon

VTEN

Location: E102°56'00.0", N14°56'00.0", 729m
(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)	22:20	80		03:59	89S		10:22	282	
2024	Jan	02	(Tue)	23:05	86		04:39	84S		10:56	277	
2024	Jan	03	(Wed)	23:51	92		05:19	78S		11:29	271	
2024	Jan	04	(Thu)				05:58	72S		12:02	265	
2024	Jan	05	(Fri)	00:37	98		06:38	66S		12:36	259	
2024	Jan	06	(Sat)	01:26	104		07:21	61S		13:14	253	
2024	Jan	07	(Sun)	02:18	109		08:08	55S		13:55	248	
2024	Jan	08	(Mon)	03:14	114		08:59	51S		14:43	244	
2024	Jan	09	(Tue)	04:14	117		09:56	48S		15:38	242	
2024	Jan	10	(Wed)	05:17	119		10:58	47S		16:39	241	
2024	Jan	11	(Thu)	06:20	119		12:02	48S		17:44	242	
2024	Jan	12	(Fri)	07:20	116		13:05	51S		18:51	246	
2024	Jan	13	(Sat)	08:15	112		14:04	55S		19:56	251	
2024	Jan	14	(Sun)	09:04	106		14:59	61S		20:58	257	
2024	Jan	15	(Mon)	09:49	99		15:51	68S		21:57	264	
2024	Jan	16	(Tue)	10:31	92		16:40	75S		22:53	272	
2024	Jan	17	(Wed)	11:11	85		17:28	82S		23:48	279	
2024	Jan	18	(Thu)	11:51	78		18:16	89S				
2024	Jan	19	(Fri)	12:33	72		19:05	87N		00:44	285	
2024	Jan	20	(Sat)	13:18	67		19:57	82N		01:40	291	
2024	Jan	21	(Sun)	14:07	63		20:50	79N		02:38	295	
2024	Jan	22	(Mon)	14:59	61		21:46	77N		03:36	298	
2024	Jan	23	(Tue)	15:53	61		22:41	77N		04:33	299	
2024	Jan	24	(Wed)	16:49	62		23:34	79N		05:27	299	
2024	Jan	25	(Thu)	17:44	65					06:17	297	
2024	Jan	26	(Fri)	18:37	68		00:25	82N		07:03	294	
2024	Jan	27	(Sat)	19:27	73		01:12	86N		07:44	289	
2024	Jan	28	(Sun)	20:14	78		01:55	91N		08:21	284	
2024	Jan	29	(Mon)	21:00	84		02:36	85S		08:55	279	
2024	Jan	30	(Tue)	21:46	90		03:16	80S		09:28	273	
2024	Jan	31	(Wed)	22:31	96		03:55	74S		10:01	267	
2024	Feb	01	(Thu)	23:18	102		04:34	68S		10:34	261	
2024	Feb	02	(Fri)				05:15	63S		11:09	255	
2024	Feb	03	(Sat)	00:07	107		05:59	57S		11:48	250	
2024	Feb	04	(Sun)	01:00	112		06:47	53S		12:32	246	

2024 Feb 05 (Mon)	01:57 116	07:40 49S	13:22 242
2024 Feb 06 (Tue)	02:57 119	08:38 47S	14:18 241
2024 Feb 07 (Wed)	03:59 119	09:40 47S	15:21 241
2024 Feb 08 (Thu)	05:01 118	10:43 49S	16:27 243
2024 Feb 09 (Fri)	05:59 114	11:45 53S	17:34 248
2024 Feb 10 (Sat)	06:51 109	12:44 58S	18:39 254
2024 Feb 11 (Sun)	07:39 102	13:38 65S	19:41 261
2024 Feb 12 (Mon)	08:24 95	14:30 72S	20:41 269
2024 Feb 13 (Tue)	09:06 88	15:20 80S	21:39 276
2024 Feb 14 (Wed)	09:48 80	16:10 87S	22:36 283
2024 Feb 15 (Thu)	10:30 74	17:00 88N	23:34 289
2024 Feb 16 (Fri)	11:15 68	17:52 83N	
2024 Feb 17 (Sat)	12:04 64	18:46 80N	00:32 294
2024 Feb 18 (Sun)	12:55 62	19:41 78N	01:31 297
2024 Feb 19 (Mon)	13:49 61	20:36 77N	02:29 299
2024 Feb 20 (Tue)	14:44 61	21:30 78N	03:24 299
2024 Feb 21 (Wed)	15:39 63	22:21 81N	04:15 298
2024 Feb 22 (Thu)	16:32 67	23:09 84N	05:01 295
2024 Feb 23 (Fri)	17:22 71	23:53 89N	05:43 291
2024 Feb 24 (Sat)	18:11 77		06:21 286
2024 Feb 25 (Sun)	18:57 82	00:35 87S	06:56 281
2024 Feb 26 (Mon)	19:43 88	01:15 82S	07:29 275
2024 Feb 27 (Tue)	20:28 94	01:54 76S	08:02 269
2024 Feb 28 (Wed)	21:14 100	02:33 70S	08:35 263
2024 Feb 29 (Thu)	22:02 106	03:13 64S	09:09 257
2024 Mar 01 (Fri)	22:52 111	03:55 59S	09:46 252
2024 Mar 02 (Sat)	23:47 115	04:41 54S	10:27 247
2024 Mar 03 (Sun)		05:30 50S	11:13 243
2024 Mar 04 (Mon)	00:44 118	06:25 48S	12:05 241
2024 Mar 05 (Tue)	01:44 120	07:23 47S	13:03 240
2024 Mar 06 (Wed)	02:44 119	08:24 47S	14:06 242
2024 Mar 07 (Thu)	03:41 117	09:25 50S	15:11 245
2024 Mar 08 (Fri)	04:35 112	10:24 55S	16:16 250
2024 Mar 09 (Sat)	05:25 106	11:20 61S	17:19 257
2024 Mar 10 (Sun)	06:11 99	12:14 68S	18:21 265
2024 Mar 11 (Mon)	06:55 92	13:06 76S	19:20 272
2024 Mar 12 (Tue)	07:38 84	13:57 83S	20:20 280
2024 Mar 13 (Wed)	08:22 77	14:49 90S	21:20 287
2024 Mar 14 (Thu)	09:08 70	15:42 85N	22:21 292
2024 Mar 15 (Fri)	09:56 65	16:38 81N	23:21 297
2024 Mar 16 (Sat)	10:48 62	17:34 78N	
2024 Mar 17 (Sun)	11:43 61	18:31 77N	00:21 299
2024 Mar 18 (Mon)	12:38 61	19:26 78N	01:19 300
2024 Mar 19 (Tue)	13:34 62	20:18 80N	02:12 299
2024 Mar 20 (Wed)	14:28 66	21:07 83N	03:00 296
2024 Mar 21 (Thu)	15:19 70	21:52 87N	03:43 292
2024 Mar 22 (Fri)	16:08 75	22:34 89S	04:22 288
2024 Mar 23 (Sat)	16:54 80	23:14 84S	04:57 282
2024 Mar 24 (Sun)	17:40 86	23:53 78S	05:31 277
2024 Mar 25 (Mon)	18:25 92		06:04 271
2024 Mar 26 (Tue)	19:11 98	00:32 72S	06:36 265
2024 Mar 27 (Wed)	19:59 104	01:12 66S	07:10 259
2024 Mar 28 (Thu)	20:49 109	01:54 60S	07:46 253
2024 Mar 29 (Fri)	21:41 114	02:38 56S	08:25 248
2024 Mar 30 (Sat)	22:37 117	03:26 51S	09:10 244
2024 Mar 31 (Sun)	23:35 119	04:19 48S	09:59 242
2024 Apr 01 (Mon)		05:15 47S	10:54 240
2024 Apr 02 (Tue)	00:34 120	06:13 47S	11:53 241
2024 Apr 03 (Wed)	01:31 118	07:12 49S	12:56 243
2024 Apr 04 (Thu)	02:24 114	08:10 53S	13:58 248
2024 Apr 05 (Fri)	03:14 109	09:05 58S	15:00 254
2024 Apr 06 (Sat)	04:00 103	09:59 65S	16:01 261
2024 Apr 07 (Sun)	04:44 96	10:50 72S	17:00 268
2024 Apr 08 (Mon)	05:27 88	11:41 79S	18:00 276
2024 Apr 09 (Tue)	06:10 80	12:33 87S	19:00 283
2024 Apr 10 (Wed)	06:55 73	13:26 88N	20:01 290
2024 Apr 11 (Thu)	07:44 68	14:22 83N	21:04 295

2024 Apr 12 (Fri)	08:36 63	15:20 79N	22:07 298
2024 Apr 13 (Sat)	09:31 61	16:19 77N	23:08 300
2024 Apr 14 (Sun)	10:28 60	17:17 77N	
2024 Apr 15 (Mon)	11:26 62	18:11 79N	00:04 299
2024 Apr 16 (Tue)	12:21 64	19:02 82N	00:55 297
2024 Apr 17 (Wed)	13:14 68	19:49 86N	01:40 294
2024 Apr 18 (Thu)	14:04 73	20:32 90N	02:21 289
2024 Apr 19 (Fri)	14:51 78	21:13 86S	02:58 284
2024 Apr 20 (Sat)	15:37 84	21:52 80S	03:32 279
2024 Apr 21 (Sun)	16:22 90	22:31 74S	04:05 273
2024 Apr 22 (Mon)	17:08 96	23:11 68S	04:37 267
2024 Apr 23 (Tue)	17:55 102	23:52 62S	05:11 261
2024 Apr 24 (Wed)	18:44 108		05:46 255
2024 Apr 25 (Thu)	19:37 113	00:36 57S	06:25 250
2024 Apr 26 (Fri)	20:32 116	01:23 53S	07:08 246
2024 Apr 27 (Sat)	21:30 119	02:15 49S	07:56 242
2024 Apr 28 (Sun)	22:28 120	03:10 47S	08:49 241
2024 Apr 29 (Mon)	23:25 119	04:08 47S	09:47 241
2024 Apr 30 (Tue)		05:06 48S	10:48 242
2024 May 01 (Wed)	00:19 116	06:03 51S	11:49 246
2024 May 02 (Thu)	01:09 111	06:58 56S	12:49 251
2024 May 03 (Fri)	01:54 106	07:50 62S	13:48 258
2024 May 04 (Sat)	02:37 99	08:40 69S	14:46 265
2024 May 05 (Sun)	03:19 91	09:29 76S	15:43 272
2024 May 06 (Mon)	04:01 84	10:19 83S	16:42 280
2024 May 07 (Tue)	04:44 77	11:11 90S	17:42 287
2024 May 08 (Wed)	05:30 71	12:05 85N	18:44 292
2024 May 09 (Thu)	06:21 65	13:03 81N	19:48 297
2024 May 10 (Fri)	07:16 62	14:02 78N	20:51 299
2024 May 11 (Sat)	08:13 61	15:02 77N	21:51 299
2024 May 12 (Sun)	09:12 61	16:00 78N	22:45 298
2024 May 13 (Mon)	10:10 63	16:54 80N	23:34 295
2024 May 14 (Tue)	11:05 67	17:43 84N	
2024 May 15 (Wed)	11:57 71	18:28 89N	00:17 291
2024 May 16 (Thu)	12:46 76	19:10 88S	00:56 286
2024 May 17 (Fri)	13:32 82	19:50 82S	01:31 281
2024 May 18 (Sat)	14:17 88	20:29 76S	02:05 275
2024 May 19 (Sun)	15:03 94	21:08 70S	02:37 269
2024 May 20 (Mon)	15:49 100	21:49 64S	03:10 263
2024 May 21 (Tue)	16:38 106	22:32 59S	03:45 257
2024 May 22 (Wed)	17:30 111	23:18 54S	04:22 252
2024 May 23 (Thu)	18:25 115		05:04 247
2024 May 24 (Fri)	19:23 118	00:09 50S	05:51 243
2024 May 25 (Sat)	20:22 119	01:04 48S	06:44 241
2024 May 26 (Sun)	21:20 119	02:02 47S	07:41 240
2024 May 27 (Mon)	22:16 117	03:01 48S	08:42 242
2024 May 28 (Tue)	23:06 113	03:59 50S	09:44 245
2024 May 29 (Wed)	23:53 107	04:54 54S	10:44 250
2024 May 30 (Thu)		05:46 60S	11:43 256
2024 May 31 (Fri)	00:36 101	06:36 66S	12:39 262
2024 Jun 01 (Sat)	01:17 94	07:24 73S	13:35 270
2024 Jun 02 (Sun)	01:57 87	08:12 81S	14:31 277
2024 Jun 03 (Mon)	02:38 80	09:01 87S	15:28 284
2024 Jun 04 (Tue)	03:22 73	09:53 88N	16:28 290
2024 Jun 05 (Wed)	04:09 68	10:48 83N	17:30 295
2024 Jun 06 (Thu)	05:02 63	11:46 79N	18:33 298
2024 Jun 07 (Fri)	05:58 61	12:46 77N	19:35 299
2024 Jun 08 (Sat)	06:57 61	13:45 77N	20:33 299
2024 Jun 09 (Sun)	07:56 62	14:42 79N	21:25 296
2024 Jun 10 (Mon)	08:53 65	15:34 82N	22:11 293
2024 Jun 11 (Tue)	09:47 69	16:21 87N	22:52 288
2024 Jun 12 (Wed)	10:38 74	17:05 90S	23:29 283
2024 Jun 13 (Thu)	11:26 80	17:46 84S	
2024 Jun 14 (Fri)	12:11 86	18:25 78S	00:03 277
2024 Jun 15 (Sat)	12:57 92	19:04 72S	00:36 271
2024 Jun 16 (Sun)	13:42 98	19:44 67S	01:08 265
2024 Jun 17 (Mon)	14:30 104	20:25 61S	01:42 259

2024 Jun 18 (Tue)	15:20 109	21:10 56S	02:18 254
2024 Jun 19 (Wed)	16:14 114	21:59 52S	02:58 249
2024 Jun 20 (Thu)	17:11 117	22:53 49S	03:43 245
2024 Jun 21 (Fri)	18:11 119	23:51 47S	04:34 242
2024 Jun 22 (Sat)	19:11 119		05:31 241
2024 Jun 23 (Sun)	20:08 118	00:51 47S	06:32 241
2024 Jun 24 (Mon)	21:02 114	01:51 49S	07:35 244
2024 Jun 25 (Tue)	21:51 109	02:48 53S	08:37 248
2024 Jun 26 (Wed)	22:35 103	03:42 58S	09:37 254
2024 Jun 27 (Thu)	23:17 96	04:33 65S	10:35 261
2024 Jun 28 (Fri)	23:57 89	05:22 72S	11:31 268
2024 Jun 29 (Sat)		06:09 79S	12:26 275
2024 Jun 30 (Sun)	00:37 82	06:58 86S	13:22 282
2024 Jul 01 (Mon)	01:19 75	07:47 90N	14:20 288
2024 Jul 02 (Tue)	02:04 69	08:40 84N	15:19 293
2024 Jul 03 (Wed)	02:53 65	09:36 80N	16:21 297
2024 Jul 04 (Thu)	03:47 62	10:34 78N	17:22 299
2024 Jul 05 (Fri)	04:44 61	11:33 77N	18:21 299
2024 Jul 06 (Sat)	05:43 61	12:30 78N	19:15 298
2024 Jul 07 (Sun)	06:42 64	13:24 81N	20:04 294
2024 Jul 08 (Mon)	07:37 68	14:14 85N	20:47 290
2024 Jul 09 (Tue)	08:29 72	14:59 90N	21:26 285
2024 Jul 10 (Wed)	09:18 78	15:41 86S	22:01 279
2024 Jul 11 (Thu)	10:05 84	16:21 80S	22:34 273
2024 Jul 12 (Fri)	10:50 90	17:00 74S	23:07 267
2024 Jul 13 (Sat)	11:36 96	17:39 69S	23:40 262
2024 Jul 14 (Sun)	12:22 101	18:20 63S	
2024 Jul 15 (Mon)	13:10 107	19:02 58S	00:14 256
2024 Jul 16 (Tue)	14:02 112	19:49 53S	00:52 251
2024 Jul 17 (Wed)	14:57 116	20:40 50S	01:34 246
2024 Jul 18 (Thu)	15:55 119	21:36 47S	02:22 243
2024 Jul 19 (Fri)	16:56 120	22:36 47S	03:16 241
2024 Jul 20 (Sat)	17:55 119	23:36 48S	04:16 241
2024 Jul 21 (Sun)	18:52 116		05:19 242
2024 Jul 22 (Mon)	19:44 111	00:36 51S	06:23 246
2024 Jul 23 (Tue)	20:31 105	01:33 56S	07:26 252
2024 Jul 24 (Wed)	21:14 98	02:27 62S	08:26 258
2024 Jul 25 (Thu)	21:56 91	03:18 69S	09:24 266
2024 Jul 26 (Fri)	22:37 83	04:06 77S	10:21 273
2024 Jul 27 (Sat)	23:18 77	04:55 84S	11:18 280
2024 Jul 28 (Sun)		05:45 90S	12:15 287
2024 Jul 29 (Mon)	00:02 71	06:36 85N	13:14 292
2024 Jul 30 (Tue)	00:50 66	07:31 81N	14:14 296
2024 Jul 31 (Wed)	01:42 62	08:27 78N	15:15 299
2024 Aug 01 (Thu)	02:37 61	09:25 77N	16:14 300
2024 Aug 02 (Fri)	03:35 61	10:22 78N	17:09 298
2024 Aug 03 (Sat)	04:33 63	11:17 80N	17:59 296
2024 Aug 04 (Sun)	05:29 66	12:08 83N	18:43 292
2024 Aug 05 (Mon)	06:22 71	12:54 88N	19:23 287
2024 Aug 06 (Tue)	07:12 76	13:38 88S	20:00 281
2024 Aug 07 (Wed)	08:00 81	14:18 82S	20:34 275
2024 Aug 08 (Thu)	08:45 87	14:57 77S	21:06 270
2024 Aug 09 (Fri)	09:30 94	15:36 71S	21:39 264
2024 Aug 10 (Sat)	10:16 99	16:16 65S	22:12 258
2024 Aug 11 (Sun)	11:03 105	16:57 60S	22:48 252
2024 Aug 12 (Mon)	11:52 110	17:41 55S	23:28 248
2024 Aug 13 (Tue)	12:45 114	18:29 51S	
2024 Aug 14 (Wed)	13:41 118	19:22 48S	00:12 244
2024 Aug 15 (Thu)	14:40 119	20:19 47S	01:02 241
2024 Aug 16 (Fri)	15:39 119	21:19 47S	01:58 240
2024 Aug 17 (Sat)	16:37 117	22:19 49S	03:00 241
2024 Aug 18 (Sun)	17:31 114	23:18 54S	04:04 244
2024 Aug 19 (Mon)	18:21 108		05:08 249
2024 Aug 20 (Tue)	19:07 101	00:14 59S	06:10 255
2024 Aug 21 (Wed)	19:50 94	01:07 66S	07:11 262
2024 Aug 22 (Thu)	20:32 86	01:58 74S	08:10 270
2024 Aug 23 (Fri)	21:15 79	02:48 81S	09:08 278

2024 Aug 24 (Sat)	21:59 72	03:39 88S	10:07 285
2024 Aug 25 (Sun)	22:47 67	04:31 87N	11:07 291
2024 Aug 26 (Mon)	23:38 63	05:26 82N	12:08 295
2024 Aug 27 (Tue)		06:23 79N	13:09 298
2024 Aug 28 (Wed)	00:32 61	07:20 77N	14:09 300
2024 Aug 29 (Thu)	01:29 60	08:18 77N	15:05 299
2024 Aug 30 (Fri)	02:27 62	09:13 79N	15:56 297
2024 Aug 31 (Sat)	03:23 65	10:04 82N	16:42 293
2024 Sep 01 (Sun)	04:17 69	10:51 86N	17:23 289
2024 Sep 02 (Mon)	05:07 74	11:35 90S	18:00 283
2024 Sep 03 (Tue)	05:56 79	12:17 84S	18:34 278
2024 Sep 04 (Wed)	06:42 85	12:56 79S	19:07 272
2024 Sep 05 (Thu)	07:27 91	13:35 73S	19:39 266
2024 Sep 06 (Fri)	08:12 97	14:14 67S	20:12 260
2024 Sep 07 (Sat)	08:58 103	14:54 61S	20:47 254
2024 Sep 08 (Sun)	09:47 108	15:37 56S	21:25 249
2024 Sep 09 (Mon)	10:37 113	16:23 52S	22:06 245
2024 Sep 10 (Tue)	11:31 117	17:13 49S	22:53 242
2024 Sep 11 (Wed)	12:27 119	18:07 47S	23:46 240
2024 Sep 12 (Thu)	13:25 120	19:04 47S	
2024 Sep 13 (Fri)	14:22 119	20:02 48S	00:43 240
2024 Sep 14 (Sat)	15:16 116	21:01 51S	01:44 242
2024 Sep 15 (Sun)	16:07 111	21:57 56S	02:47 246
2024 Sep 16 (Mon)	16:55 105	22:51 63S	03:50 252
2024 Sep 17 (Tue)	17:40 98	23:44 70S	04:51 258
2024 Sep 18 (Wed)	18:23 90		05:52 266
2024 Sep 19 (Thu)	19:06 82	00:35 77S	06:51 274
2024 Sep 20 (Fri)	19:51 75	01:27 85S	07:52 282
2024 Sep 21 (Sat)	20:39 69	02:20 89N	08:53 288
2024 Sep 22 (Sun)	21:30 64	03:16 84N	09:57 294
2024 Sep 23 (Mon)	22:25 61	04:14 80N	11:00 298
2024 Sep 24 (Tue)	23:23 60	05:13 77N	12:02 300
2024 Sep 25 (Wed)		06:12 77N	13:00 300
2024 Sep 26 (Thu)	00:22 61	07:09 78N	13:54 298
2024 Sep 27 (Fri)	01:19 64	08:01 81N	14:41 294
2024 Sep 28 (Sat)	02:13 67	08:50 85N	15:23 290
2024 Sep 29 (Sun)	03:04 72	09:34 90N	16:01 285
2024 Sep 30 (Mon)	03:53 78	10:16 86S	16:36 279
2024 Oct 01 (Tue)	04:39 83	10:56 81S	17:09 274
2024 Oct 02 (Wed)	05:25 89	11:34 75S	17:41 268
2024 Oct 03 (Thu)	06:10 95	12:13 69S	18:14 262
2024 Oct 04 (Fri)	06:56 101	12:53 63S	18:48 256
2024 Oct 05 (Sat)	07:43 107	13:35 58S	19:25 251
2024 Oct 06 (Sun)	08:33 112	14:20 53S	20:05 246
2024 Oct 07 (Mon)	09:25 116	15:08 50S	20:49 243
2024 Oct 08 (Tue)	10:20 118	16:00 47S	21:39 241
2024 Oct 09 (Wed)	11:16 120	16:55 46S	22:33 240
2024 Oct 10 (Thu)	12:12 119	17:51 47S	23:32 241
2024 Oct 11 (Fri)	13:06 117	18:48 50S	
2024 Oct 12 (Sat)	13:57 113	19:43 54S	00:32 244
2024 Oct 13 (Sun)	14:44 108	20:37 59S	01:32 249
2024 Oct 14 (Mon)	15:29 102	21:28 66S	02:32 255
2024 Oct 15 (Tue)	16:11 94	22:19 73S	03:32 262
2024 Oct 16 (Wed)	16:54 86	23:10 81S	04:31 270
2024 Oct 17 (Thu)	17:38 79		05:31 277
2024 Oct 18 (Fri)	18:25 72	00:03 88S	06:32 285
2024 Oct 19 (Sat)	19:17 66	00:59 87N	07:36 291
2024 Oct 20 (Sun)	20:12 62	01:58 81N	08:42 296
2024 Oct 21 (Mon)	21:11 60	02:59 78N	09:47 299
2024 Oct 22 (Tue)	22:11 61	04:00 77N	10:50 300
2024 Oct 23 (Wed)	23:11 63	05:00 77N	11:47 299
2024 Oct 24 (Thu)		05:55 80N	12:37 296
2024 Oct 25 (Fri)	00:07 66	06:46 83N	13:22 292
2024 Oct 26 (Sat)	01:00 71	07:32 88N	14:01 287
2024 Oct 27 (Sun)	01:50 76	08:15 88S	14:37 281
2024 Oct 28 (Mon)	02:37 82	08:55 82S	15:11 275
2024 Oct 29 (Tue)	03:22 87	09:34 77S	15:43 270

2024	Oct	30	(Wed)	04:07	94	10:13	71S	16:15	264
2024	Oct	31	(Thu)	04:53	99	10:52	65S	16:49	258
2024	Nov	01	(Fri)	05:40	105	11:34	60S	17:25	252
2024	Nov	02	(Sat)	06:29	110	12:18	55S	18:04	248
2024	Nov	03	(Sun)	07:21	114	13:05	51S	18:48	244
2024	Nov	04	(Mon)	08:16	118	13:56	48S	19:36	241
2024	Nov	05	(Tue)	09:11	119	14:50	47S	20:29	240
2024	Nov	06	(Wed)	10:07	120	15:46	47S	21:26	241
2024	Nov	07	(Thu)	11:01	118	16:42	49S	22:24	243
2024	Nov	08	(Fri)	11:51	115	17:36	52S	23:23	247
2024	Nov	09	(Sat)	12:38	110	18:28	57S		
2024	Nov	10	(Sun)	13:22	104	19:18	63S	00:21	253
2024	Nov	11	(Mon)	14:04	97	20:07	70S	01:18	259
2024	Nov	12	(Tue)	14:45	90	20:57	77S	02:15	266
2024	Nov	13	(Wed)	15:27	83	21:47	85S	03:12	274
2024	Nov	14	(Thu)	16:12	76	22:40	90N	04:11	281
2024	Nov	15	(Fri)	17:00	69	23:37	84N	05:13	288
2024	Nov	16	(Sat)	17:54	64			06:18	294
2024	Nov	17	(Sun)	18:52	61	00:38	80N	07:25	298
2024	Nov	18	(Mon)	19:54	60	01:41	77N	08:31	299
2024	Nov	19	(Tue)	20:56	62	02:44	77N	09:32	299
2024	Nov	20	(Wed)	21:56	65	03:43	79N	10:28	297
2024	Nov	21	(Thu)	22:52	69	04:37	82N	11:16	293
2024	Nov	22	(Fri)	23:44	74	05:27	86N	11:58	289
2024	Nov	23	(Sat)			06:12	90S	12:36	283
2024	Nov	24	(Sun)	00:32	80	06:53	84S	13:11	277
2024	Nov	25	(Mon)	01:18	85	07:32	79S	13:43	272
2024	Nov	26	(Tue)	02:03	91	08:11	73S	14:16	266
2024	Nov	27	(Wed)	02:49	97	08:50	67S	14:49	260
2024	Nov	28	(Thu)	03:35	103	09:31	61S	15:24	254
2024	Nov	29	(Fri)	04:24	108	10:14	56S	16:02	249
2024	Nov	30	(Sat)	05:15	113	11:01	52S	16:44	245
2024	Dec	01	(Sun)	06:09	117	11:51	49S	17:32	242
2024	Dec	02	(Mon)	07:05	119	12:45	47S	18:24	241
2024	Dec	03	(Tue)	08:02	120	13:41	47S	19:20	241
2024	Dec	04	(Wed)	08:57	119	14:37	48S	20:19	243
2024	Dec	05	(Thu)	09:49	116	15:32	51S	21:18	246
2024	Dec	06	(Fri)	10:37	111	16:25	56S	22:16	251
2024	Dec	07	(Sat)	11:21	106	17:15	61S	23:12	257
2024	Dec	08	(Sun)	12:02	100	18:03	68S		
2024	Dec	09	(Mon)	12:42	93	18:50	75S	00:08	264
2024	Dec	10	(Tue)	13:22	85	19:38	82S	01:02	271
2024	Dec	11	(Wed)	14:03	78	20:28	89S	01:59	278
2024	Dec	12	(Thu)	14:49	72	21:22	87N	02:57	285
2024	Dec	13	(Fri)	15:38	66	22:19	82N	03:59	291
2024	Dec	14	(Sat)	16:34	63	23:21	78N	05:03	296
2024	Dec	15	(Sun)	17:34	61			06:09	299
2024	Dec	16	(Mon)	18:37	61	00:24	77N	07:13	299
2024	Dec	17	(Tue)	19:39	63	01:25	78N	08:12	298
2024	Dec	18	(Wed)	20:38	67	02:23	80N	09:05	295
2024	Dec	19	(Thu)	21:33	72	03:16	84N	09:51	291
2024	Dec	20	(Fri)	22:24	77	04:04	89N	10:31	285
2024	Dec	21	(Sat)	23:12	83	04:48	87S	11:08	280
2024	Dec	22	(Sun)	23:57	89	05:28	81S	11:42	274
2024	Dec	23	(Mon)			06:08	75S	12:14	268
2024	Dec	24	(Tue)	00:43	95	06:47	69S	12:47	262
2024	Dec	25	(Wed)	01:29	101	07:26	63S	13:21	256
2024	Dec	26	(Thu)	02:16	107	08:08	58S	13:58	251
2024	Dec	27	(Fri)	03:06	111	08:54	54S	14:39	247
2024	Dec	28	(Sat)	03:59	115	09:43	50S	15:24	243
2024	Dec	29	(Sun)	04:55	118	10:36	48S	16:15	241
2024	Dec	30	(Mon)	05:52	120	11:32	47S	17:11	240
2024	Dec	31	(Tue)	06:49	119	12:29	48S	18:10	242