

Sun

VTED

Location: E102°48'00.0", N17°22'00.0", 579m
(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)	05:48	06:39 114		12:12 50S	17:45 246		18:36
2024 Jan 02 (Tue)	05:48	06:39 114		12:12 50S	17:46 246		18:37
2024 Jan 03 (Wed)	05:49	06:39 114		12:13 50S	17:47 246		18:37
2024 Jan 04 (Thu)	05:49	06:40 114		12:13 51S	17:47 246		18:38
2024 Jan 05 (Fri)	05:50	06:40 114		12:14 51S	17:48 246		18:38
2024 Jan 06 (Sat)	05:50	06:40 113		12:14 51S	17:48 247		18:39
2024 Jan 07 (Sun)	05:50	06:41 113		12:15 51S	17:49 247		18:39
2024 Jan 08 (Mon)	05:50	06:41 113		12:15 51S	17:50 247		18:40
2024 Jan 09 (Tue)	05:51	06:41 113		12:16 51S	17:50 247		18:40
2024 Jan 10 (Wed)	05:51	06:41 113		12:16 51S	17:51 247		18:41
2024 Jan 11 (Thu)	05:51	06:41 113		12:16 51S	17:51 247		18:42
2024 Jan 12 (Fri)	05:52	06:42 113		12:17 52S	17:52 248		18:42
2024 Jan 13 (Sat)	05:52	06:42 112		12:17 52S	17:53 248		18:43
2024 Jan 14 (Sun)	05:52	06:42 112		12:18 52S	17:53 248		18:43
2024 Jan 15 (Mon)	05:52	06:42 112		12:18 52S	17:54 248		18:44
2024 Jan 16 (Tue)	05:52	06:42 112		12:18 52S	17:55 248		18:44
2024 Jan 17 (Wed)	05:52	06:42 112		12:19 53S	17:55 248		18:45
2024 Jan 18 (Thu)	05:53	06:42 111		12:19 53S	17:56 249		18:46
2024 Jan 19 (Fri)	05:53	06:42 111		12:19 53S	17:56 249		18:46
2024 Jan 20 (Sat)	05:53	06:42 111		12:20 53S	17:57 249		18:47
2024 Jan 21 (Sun)	05:53	06:42 111		12:20 53S	17:58 249		18:47
2024 Jan 22 (Mon)	05:53	06:42 111		12:20 54S	17:58 250		18:48
2024 Jan 23 (Tue)	05:53	06:42 110		12:20 54S	17:59 250		18:48
2024 Jan 24 (Wed)	05:53	06:42 110		12:21 54S	17:59 250		18:49
2024 Jan 25 (Thu)	05:53	06:42 110		12:21 54S	18:00 250		18:49
2024 Jan 26 (Fri)	05:53	06:42 110		12:21 55S	18:01 251		18:50
2024 Jan 27 (Sat)	05:53	06:42 109		12:21 55S	18:01 251		18:50
2024 Jan 28 (Sun)	05:53	06:42 109		12:22 55S	18:02 251		18:51
2024 Jan 29 (Mon)	05:53	06:42 109		12:22 55S	18:02 251		18:51
2024 Jan 30 (Tue)	05:52	06:41 108		12:22 56S	18:03 252		18:52
2024 Jan 31 (Wed)	05:52	06:41 108		12:22 56S	18:03 252		18:52
2024 Feb 01 (Thu)	05:52	06:41 108		12:22 56S	18:04 252		18:52
2024 Feb 02 (Fri)	05:52	06:41 108		12:22 56S	18:04 253		18:53
2024 Feb 03 (Sat)	05:52	06:40 107		12:23 57S	18:05 253		18:53
2024 Feb 04 (Sun)	05:52	06:40 107		12:23 57S	18:05 253		18:54
2024 Feb 05 (Mon)	05:51	06:40 107		12:23 57S	18:06 253		18:54
2024 Feb 06 (Tue)	05:51	06:39 106		12:23 58S	18:06 254		18:55
2024 Feb 07 (Wed)	05:51	06:39 106		12:23 58S	18:07 254		18:55
2024 Feb 08 (Thu)	05:51	06:39 106		12:23 58S	18:07 254		18:55
2024 Feb 09 (Fri)	05:50	06:38 105		12:23 59S	18:08 255		18:56
2024 Feb 10 (Sat)	05:50	06:38 105		12:23 59S	18:08 255		18:56
2024 Feb 11 (Sun)	05:50	06:38 105		12:23 59S	18:09 255		18:57
2024 Feb 12 (Mon)	05:49	06:37 104		12:23 59S	18:09 256		18:57
2024 Feb 13 (Tue)	05:49	06:37 104		12:23 60S	18:09 256		18:57
2024 Feb 14 (Wed)	05:48	06:36 104		12:23 60S	18:10 257		18:58
2024 Feb 15 (Thu)	05:48	06:36 103		12:23 60S	18:10 257		18:58
2024 Feb 16 (Fri)	05:48	06:35 103		12:23 61S	18:11 257		18:58
2024 Feb 17 (Sat)	05:47	06:35 103		12:23 61S	18:11 258		18:59
2024 Feb 18 (Sun)	05:47	06:34 102		12:23 62S	18:11 258		18:59
2024 Feb 19 (Mon)	05:46	06:34 102		12:23 62S	18:12 258		18:59
2024 Feb 20 (Tue)	05:46	06:33 101		12:23 62S	18:12 259		19:00
2024 Feb 21 (Wed)	05:45	06:33 101		12:22 63S	18:13 259		19:00
2024 Feb 22 (Thu)	05:45	06:32 101		12:22 63S	18:13 259		19:00
2024 Feb 23 (Fri)	05:44	06:31 100		12:22 63S	18:13 260		19:01
2024 Feb 24 (Sat)	05:44	06:31 100		12:22 64S	18:14 260		19:01

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

2024	May	02	(Thu)	04:53	05:42	74	12:06	89S	18:29	287	19:19
2024	May	03	(Fri)	04:52	05:42	73	12:06	89S	18:30	287	19:19
2024	May	04	(Sat)	04:52	05:41	73	12:06	89S	18:30	287	19:20
2024	May	05	(Sun)	04:51	05:41	73	12:05	90S	18:30	288	19:20
2024	May	06	(Mon)	04:51	05:40	72	12:05	90S	18:31	288	19:20
2024	May	07	(Tue)	04:50	05:40	72	12:05	90S	18:31	288	19:21
2024	May	08	(Wed)	04:50	05:40	72	12:05	91S	18:31	288	19:21
2024	May	09	(Thu)	04:49	05:39	71	12:05	91N	18:32	289	19:22
2024	May	10	(Fri)	04:49	05:39	71	12:05	90N	18:32	289	19:22
2024	May	11	(Sat)	04:48	05:38	71	12:05	90N	18:32	289	19:23
2024	May	12	(Sun)	04:48	05:38	71	12:05	90N	18:33	290	19:23
2024	May	13	(Mon)	04:47	05:38	70	12:05	90N	18:33	290	19:23
2024	May	14	(Tue)	04:47	05:37	70	12:05	89N	18:33	290	19:24
2024	May	15	(Wed)	04:46	05:37	70	12:05	89N	18:34	290	19:24
2024	May	16	(Thu)	04:46	05:37	70	12:05	89N	18:34	291	19:25
2024	May	17	(Fri)	04:46	05:36	69	12:05	89N	18:34	291	19:25
2024	May	18	(Sat)	04:45	05:36	69	12:05	88N	18:35	291	19:26
2024	May	19	(Sun)	04:45	05:36	69	12:05	88N	18:35	291	19:26
2024	May	20	(Mon)	04:44	05:35	69	12:05	88N	18:35	291	19:27
2024	May	21	(Tue)	04:44	05:35	68	12:05	88N	18:36	292	19:27
2024	May	22	(Wed)	04:44	05:35	68	12:06	88N	18:36	292	19:27
2024	May	23	(Thu)	04:44	05:35	68	12:06	87N	18:37	292	19:28
2024	May	24	(Fri)	04:43	05:35	68	12:06	87N	18:37	292	19:28
2024	May	25	(Sat)	04:43	05:34	68	12:06	87N	18:37	292	19:29
2024	May	26	(Sun)	04:43	05:34	67	12:06	87N	18:38	293	19:29
2024	May	27	(Mon)	04:43	05:34	67	12:06	87N	18:38	293	19:30
2024	May	28	(Tue)	04:42	05:34	67	12:06	87N	18:38	293	19:30
2024	May	29	(Wed)	04:42	05:34	67	12:06	86N	18:39	293	19:30
2024	May	30	(Thu)	04:42	05:34	67	12:06	86N	18:39	293	19:31
2024	May	31	(Fri)	04:42	05:34	67	12:07	86N	18:39	293	19:31
2024	Jun	01	(Sat)	04:42	05:34	67	12:07	86N	18:40	294	19:32
2024	Jun	02	(Sun)	04:42	05:34	66	12:07	86N	18:40	294	19:32
2024	Jun	03	(Mon)	04:42	05:34	66	12:07	86N	18:40	294	19:33
2024	Jun	04	(Tue)	04:42	05:34	66	12:07	86N	18:41	294	19:33
2024	Jun	05	(Wed)	04:41	05:34	66	12:07	85N	18:41	294	19:33
2024	Jun	06	(Thu)	04:41	05:34	66	12:08	85N	18:42	294	19:34
2024	Jun	07	(Fri)	04:41	05:34	66	12:08	85N	18:42	294	19:34
2024	Jun	08	(Sat)	04:41	05:34	66	12:08	85N	18:42	294	19:35
2024	Jun	09	(Sun)	04:41	05:34	66	12:08	85N	18:42	294	19:35
2024	Jun	10	(Mon)	04:42	05:34	66	12:08	85N	18:43	295	19:35
2024	Jun	11	(Tue)	04:42	05:34	65	12:09	85N	18:43	295	19:36
2024	Jun	12	(Wed)	04:42	05:34	65	12:09	85N	18:43	295	19:36
2024	Jun	13	(Thu)	04:42	05:34	65	12:09	85N	18:44	295	19:36
2024	Jun	14	(Fri)	04:42	05:34	65	12:09	85N	18:44	295	19:37
2024	Jun	15	(Sat)	04:42	05:35	65	12:09	85N	18:44	295	19:37
2024	Jun	16	(Sun)	04:42	05:35	65	12:10	85N	18:45	295	19:37
2024	Jun	17	(Mon)	04:42	05:35	65	12:10	85N	18:45	295	19:37
2024	Jun	18	(Tue)	04:42	05:35	65	12:10	85N	18:45	295	19:38
2024	Jun	19	(Wed)	04:43	05:35	65	12:10	85N	18:45	295	19:38
2024	Jun	20	(Thu)	04:43	05:35	65	12:10	85N	18:46	295	19:38
2024	Jun	21	(Fri)	04:43	05:36	65	12:11	85N	18:46	295	19:38
2024	Jun	22	(Sat)	04:43	05:36	65	12:11	85N	18:46	295	19:39
2024	Jun	23	(Sun)	04:43	05:36	65	12:11	85N	18:46	295	19:39
2024	Jun	24	(Mon)	04:44	05:36	65	12:11	85N	18:46	295	19:39
2024	Jun	25	(Tue)	04:44	05:37	65	12:12	85N	18:46	295	19:39
2024	Jun	26	(Wed)	04:44	05:37	65	12:12	85N	18:47	295	19:39
2024	Jun	27	(Thu)	04:45	05:37	65	12:12	85N	18:47	295	19:39
2024	Jun	28	(Fri)	04:45	05:37	65	12:12	85N	18:47	295	19:39
2024	Jun	29	(Sat)	04:45	05:38	65	12:12	85N	18:47	295	19:39
2024	Jun	30	(Sun)	04:45	05:38	65	12:13	85N	18:47	295	19:40
2024	Jul	01	(Mon)	04:46	05:38	65	12:13	85N	18:47	295	19:40
2024	Jul	02	(Tue)	04:46	05:39	66	12:13	85N	18:47	294	19:40
2024	Jul	03	(Wed)	04:46	05:39	66	12:13	85N	18:47	294	19:40
2024	Jul	04	(Thu)	04:47	05:39	66	12:13	85N	18:47	294	19:40
2024	Jul	05	(Fri)	04:47	05:39	66	12:13	85N	18:47	294	19:40
2024	Jul	06	(Sat)	04:48	05:40	66	12:14	85N	18:47	294	19:40
2024	Jul	07	(Sun)	04:48	05:40	66	12:14	86N	18:47	294	19:40

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

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

2024	Nov	19	(Tue)	05:27	06:16	110	11:54	54S	17:32	250	18:22
2024	Nov	20	(Wed)	05:27	06:16	110	11:54	54S	17:32	249	18:22
2024	Nov	21	(Thu)	05:27	06:17	111	11:55	53S	17:32	249	18:22
2024	Nov	22	(Fri)	05:28	06:18	111	11:55	53S	17:32	249	18:22
2024	Nov	23	(Sat)	05:28	06:18	111	11:55	53S	17:32	249	18:22
2024	Nov	24	(Sun)	05:29	06:19	111	11:56	53S	17:32	249	18:22
2024	Nov	25	(Mon)	05:29	06:19	112	11:56	53S	17:32	248	18:22
2024	Nov	26	(Tue)	05:30	06:20	112	11:56	52S	17:32	248	18:22
2024	Nov	27	(Wed)	05:31	06:20	112	11:56	52S	17:32	248	18:22
2024	Nov	28	(Thu)	05:31	06:21	112	11:57	52S	17:32	248	18:22
2024	Nov	29	(Fri)	05:32	06:22	112	11:57	52S	17:33	248	18:23
2024	Nov	30	(Sat)	05:32	06:22	112	11:58	52S	17:33	247	18:23
2024	Dec	01	(Sun)	05:33	06:23	113	11:58	51S	17:33	247	18:23
2024	Dec	02	(Mon)	05:33	06:23	113	11:58	51S	17:33	247	18:23
2024	Dec	03	(Tue)	05:34	06:24	113	11:59	51S	17:33	247	18:23
2024	Dec	04	(Wed)	05:34	06:25	113	11:59	51S	17:33	247	18:24
2024	Dec	05	(Thu)	05:35	06:25	113	11:59	51S	17:34	247	18:24
2024	Dec	06	(Fri)	05:35	06:26	113	12:00	51S	17:34	247	18:24
2024	Dec	07	(Sat)	05:36	06:26	113	12:00	51S	17:34	246	18:25
2024	Dec	08	(Sun)	05:37	06:27	114	12:01	51S	17:35	246	18:25
2024	Dec	09	(Mon)	05:37	06:28	114	12:01	50S	17:35	246	18:25
2024	Dec	10	(Tue)	05:38	06:28	114	12:02	50S	17:35	246	18:26
2024	Dec	11	(Wed)	05:38	06:29	114	12:02	50S	17:35	246	18:26
2024	Dec	12	(Thu)	05:39	06:29	114	12:03	50S	17:36	246	18:26
2024	Dec	13	(Fri)	05:39	06:30	114	12:03	50S	17:36	246	18:27
2024	Dec	14	(Sat)	05:40	06:30	114	12:04	50S	17:37	246	18:27
2024	Dec	15	(Sun)	05:40	06:31	114	12:04	50S	17:37	246	18:28
2024	Dec	16	(Mon)	05:41	06:32	114	12:04	50S	17:37	246	18:28
2024	Dec	17	(Tue)	05:41	06:32	114	12:05	50S	17:38	246	18:29
2024	Dec	18	(Wed)	05:42	06:33	114	12:05	50S	17:38	246	18:29
2024	Dec	19	(Thu)	05:42	06:33	114	12:06	50S	17:39	246	18:29
2024	Dec	20	(Fri)	05:43	06:34	114	12:06	50S	17:39	246	18:30
2024	Dec	21	(Sat)	05:43	06:34	114	12:07	50S	17:40	246	18:30
2024	Dec	22	(Sun)	05:44	06:35	114	12:07	50S	17:40	246	18:31
2024	Dec	23	(Mon)	05:44	06:35	114	12:08	50S	17:41	246	18:31
2024	Dec	24	(Tue)	05:45	06:36	114	12:08	50S	17:41	246	18:32
2024	Dec	25	(Wed)	05:45	06:36	114	12:09	50S	17:42	246	18:33
2024	Dec	26	(Thu)	05:46	06:37	114	12:09	50S	17:42	246	18:33
2024	Dec	27	(Fri)	05:46	06:37	114	12:10	50S	17:43	246	18:34
2024	Dec	28	(Sat)	05:47	06:37	114	12:10	50S	17:44	246	18:34
2024	Dec	29	(Sun)	05:47	06:38	114	12:11	50S	17:44	246	18:35
2024	Dec	30	(Mon)	05:48	06:38	114	12:11	50S	17:45	246	18:35
2024	Dec	31	(Tue)	05:48	06:39	114	12:12	50S	17:45	246	18:36

Sun

VTED

Location: E102°48'00.0", N17°22'00.0", 579m
(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)	06:15	06:39	114	12:12	50S	17:45	246	18:09
2024	Jan	02	(Tue)	06:15	06:39	114	12:12	50S	17:46	246	18:09
2024	Jan	03	(Wed)	06:16	06:39	114	12:13	50S	17:47	246	18:10
2024	Jan	04	(Thu)	06:16	06:40	114	12:13	51S	17:47	246	18:11
2024	Jan	05	(Fri)	06:17	06:40	114	12:14	51S	17:48	246	18:11
2024	Jan	06	(Sat)	06:17	06:40	113	12:14	51S	17:48	247	18:12
2024	Jan	07	(Sun)	06:17	06:41	113	12:15	51S	17:49	247	18:12
2024	Jan	08	(Mon)	06:17	06:41	113	12:15	51S	17:50	247	18:13
2024	Jan	09	(Tue)	06:18	06:41	113	12:16	51S	17:50	247	18:14
2024	Jan	10	(Wed)	06:18	06:41	113	12:16	51S	17:51	247	18:14
2024	Jan	11	(Thu)	06:18	06:41	113	12:16	51S	17:51	247	18:15

2024	Jan	12	(Fri)	06:18	06:42	113	12:17	52S	17:52	248	18:15
2024	Jan	13	(Sat)	06:18	06:42	112	12:17	52S	17:53	248	18:16
2024	Jan	14	(Sun)	06:19	06:42	112	12:18	52S	17:53	248	18:17
2024	Jan	15	(Mon)	06:19	06:42	112	12:18	52S	17:54	248	18:17
2024	Jan	16	(Tue)	06:19	06:42	112	12:18	52S	17:55	248	18:18
2024	Jan	17	(Wed)	06:19	06:42	112	12:19	53S	17:55	248	18:18
2024	Jan	18	(Thu)	06:19	06:42	111	12:19	53S	17:56	249	18:19
2024	Jan	19	(Fri)	06:19	06:42	111	12:19	53S	17:56	249	18:19
2024	Jan	20	(Sat)	06:19	06:42	111	12:20	53S	17:57	249	18:20
2024	Jan	21	(Sun)	06:19	06:42	111	12:20	53S	17:58	249	18:21
2024	Jan	22	(Mon)	06:19	06:42	111	12:20	54S	17:58	250	18:21
2024	Jan	23	(Tue)	06:19	06:42	110	12:20	54S	17:59	250	18:22
2024	Jan	24	(Wed)	06:19	06:42	110	12:21	54S	17:59	250	18:22
2024	Jan	25	(Thu)	06:19	06:42	110	12:21	54S	18:00	250	18:23
2024	Jan	26	(Fri)	06:19	06:42	110	12:21	55S	18:01	251	18:23
2024	Jan	27	(Sat)	06:19	06:42	109	12:21	55S	18:01	251	18:24
2024	Jan	28	(Sun)	06:19	06:42	109	12:22	55S	18:02	251	18:24
2024	Jan	29	(Mon)	06:19	06:42	109	12:22	55S	18:02	251	18:25
2024	Jan	30	(Tue)	06:19	06:41	108	12:22	56S	18:03	252	18:25
2024	Jan	31	(Wed)	06:18	06:41	108	12:22	56S	18:03	252	18:26
2024	Feb	01	(Thu)	06:18	06:41	108	12:22	56S	18:04	252	18:26
2024	Feb	02	(Fri)	06:18	06:41	108	12:22	56S	18:04	253	18:27
2024	Feb	03	(Sat)	06:18	06:40	107	12:23	57S	18:05	253	18:27
2024	Feb	04	(Sun)	06:18	06:40	107	12:23	57S	18:05	253	18:28
2024	Feb	05	(Mon)	06:17	06:40	107	12:23	57S	18:06	253	18:28
2024	Feb	06	(Tue)	06:17	06:39	106	12:23	58S	18:06	254	18:29
2024	Feb	07	(Wed)	06:17	06:39	106	12:23	58S	18:07	254	18:29
2024	Feb	08	(Thu)	06:16	06:39	106	12:23	58S	18:07	254	18:30
2024	Feb	09	(Fri)	06:16	06:38	105	12:23	59S	18:08	255	18:30
2024	Feb	10	(Sat)	06:16	06:38	105	12:23	59S	18:08	255	18:30
2024	Feb	11	(Sun)	06:15	06:38	105	12:23	59S	18:09	255	18:31
2024	Feb	12	(Mon)	06:15	06:37	104	12:23	59S	18:09	256	18:31
2024	Feb	13	(Tue)	06:15	06:37	104	12:23	60S	18:09	256	18:32
2024	Feb	14	(Wed)	06:14	06:36	104	12:23	60S	18:10	257	18:32
2024	Feb	15	(Thu)	06:14	06:36	103	12:23	60S	18:10	257	18:32
2024	Feb	16	(Fri)	06:13	06:35	103	12:23	61S	18:11	257	18:33
2024	Feb	17	(Sat)	06:13	06:35	103	12:23	61S	18:11	258	18:33
2024	Feb	18	(Sun)	06:12	06:34	102	12:23	62S	18:11	258	18:34
2024	Feb	19	(Mon)	06:12	06:34	102	12:23	62S	18:12	258	18:34
2024	Feb	20	(Tue)	06:11	06:33	101	12:23	62S	18:12	259	18:34
2024	Feb	21	(Wed)	06:11	06:33	101	12:22	63S	18:13	259	18:35
2024	Feb	22	(Thu)	06:10	06:32	101	12:22	63S	18:13	259	18:35
2024	Feb	23	(Fri)	06:10	06:31	100	12:22	63S	18:13	260	18:35
2024	Feb	24	(Sat)	06:09	06:31	100	12:22	64S	18:14	260	18:35
2024	Feb	25	(Sun)	06:08	06:30	100	12:22	64S	18:14	261	18:36
2024	Feb	26	(Mon)	06:08	06:30	99	12:22	64S	18:14	261	18:36
2024	Feb	27	(Tue)	06:07	06:29	99	12:22	65S	18:14	261	18:36
2024	Feb	28	(Wed)	06:07	06:28	98	12:21	65S	18:15	262	18:37
2024	Feb	29	(Thu)	06:06	06:28	98	12:21	66S	18:15	262	18:37
2024	Mar	01	(Fri)	06:05	06:27	98	12:21	66S	18:15	263	18:37
2024	Mar	02	(Sat)	06:05	06:26	97	12:21	66S	18:16	263	18:37
2024	Mar	03	(Sun)	06:04	06:26	97	12:21	67S	18:16	263	18:38
2024	Mar	04	(Mon)	06:03	06:25	96	12:20	67S	18:16	264	18:38
2024	Mar	05	(Tue)	06:03	06:24	96	12:20	67S	18:16	264	18:38
2024	Mar	06	(Wed)	06:02	06:24	96	12:20	68S	18:17	265	18:38
2024	Mar	07	(Thu)	06:01	06:23	95	12:20	68S	18:17	265	18:39
2024	Mar	08	(Fri)	06:00	06:22	95	12:20	69S	18:17	265	18:39
2024	Mar	09	(Sat)	06:00	06:21	94	12:19	69S	18:17	266	18:39
2024	Mar	10	(Sun)	05:59	06:21	94	12:19	69S	18:18	266	18:39
2024	Mar	11	(Mon)	05:58	06:20	94	12:19	70S	18:18	267	18:40
2024	Mar	12	(Tue)	05:57	06:19	93	12:18	70S	18:18	267	18:40
2024	Mar	13	(Wed)	05:57	06:18	93	12:18	71S	18:18	268	18:40
2024	Mar	14	(Thu)	05:56	06:18	92	12:18	71S	18:19	268	18:40
2024	Mar	15	(Fri)	05:55	06:17	92	12:18	71S	18:19	268	18:40
2024	Mar	16	(Sat)	05:54	06:16	91	12:17	72S	18:19	269	18:41
2024	Mar	17	(Sun)	05:54	06:15	91	12:17	72S	18:19	269	18:41
2024	Mar	18	(Mon)	05:53	06:14	91	12:17	73S	18:19	270	18:41

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

2024	May	25	(Sat)	05:11	05:34	68	12:06	87N	18:37	292	19:01
2024	May	26	(Sun)	05:11	05:34	67	12:06	87N	18:38	293	19:01
2024	May	27	(Mon)	05:10	05:34	67	12:06	87N	18:38	293	19:02
2024	May	28	(Tue)	05:10	05:34	67	12:06	87N	18:38	293	19:02
2024	May	29	(Wed)	05:10	05:34	67	12:06	86N	18:39	293	19:02
2024	May	30	(Thu)	05:10	05:34	67	12:06	86N	18:39	293	19:03
2024	May	31	(Fri)	05:10	05:34	67	12:07	86N	18:39	293	19:03
2024	Jun	01	(Sat)	05:10	05:34	67	12:07	86N	18:40	294	19:04
2024	Jun	02	(Sun)	05:10	05:34	66	12:07	86N	18:40	294	19:04
2024	Jun	03	(Mon)	05:10	05:34	66	12:07	86N	18:40	294	19:04
2024	Jun	04	(Tue)	05:10	05:34	66	12:07	86N	18:41	294	19:05
2024	Jun	05	(Wed)	05:10	05:34	66	12:07	85N	18:41	294	19:05
2024	Jun	06	(Thu)	05:10	05:34	66	12:08	85N	18:42	294	19:05
2024	Jun	07	(Fri)	05:10	05:34	66	12:08	85N	18:42	294	19:06
2024	Jun	08	(Sat)	05:10	05:34	66	12:08	85N	18:42	294	19:06
2024	Jun	09	(Sun)	05:10	05:34	66	12:08	85N	18:42	294	19:06
2024	Jun	10	(Mon)	05:10	05:34	66	12:08	85N	18:43	295	19:07
2024	Jun	11	(Tue)	05:10	05:34	65	12:09	85N	18:43	295	19:07
2024	Jun	12	(Wed)	05:10	05:34	65	12:09	85N	18:43	295	19:07
2024	Jun	13	(Thu)	05:10	05:34	65	12:09	85N	18:44	295	19:08
2024	Jun	14	(Fri)	05:10	05:34	65	12:09	85N	18:44	295	19:08
2024	Jun	15	(Sat)	05:10	05:35	65	12:09	85N	18:44	295	19:08
2024	Jun	16	(Sun)	05:11	05:35	65	12:10	85N	18:45	295	19:09
2024	Jun	17	(Mon)	05:11	05:35	65	12:10	85N	18:45	295	19:09
2024	Jun	18	(Tue)	05:11	05:35	65	12:10	85N	18:45	295	19:09
2024	Jun	19	(Wed)	05:11	05:35	65	12:10	85N	18:45	295	19:09
2024	Jun	20	(Thu)	05:11	05:35	65	12:10	85N	18:46	295	19:10
2024	Jun	21	(Fri)	05:12	05:36	65	12:11	85N	18:46	295	19:10
2024	Jun	22	(Sat)	05:12	05:36	65	12:11	85N	18:46	295	19:10
2024	Jun	23	(Sun)	05:12	05:36	65	12:11	85N	18:46	295	19:10
2024	Jun	24	(Mon)	05:12	05:36	65	12:11	85N	18:46	295	19:10
2024	Jun	25	(Tue)	05:12	05:37	65	12:12	85N	18:46	295	19:11
2024	Jun	26	(Wed)	05:13	05:37	65	12:12	85N	18:47	295	19:11
2024	Jun	27	(Thu)	05:13	05:37	65	12:12	85N	18:47	295	19:11
2024	Jun	28	(Fri)	05:13	05:37	65	12:12	85N	18:47	295	19:11
2024	Jun	29	(Sat)	05:14	05:38	65	12:12	85N	18:47	295	19:11
2024	Jun	30	(Sun)	05:14	05:38	65	12:13	85N	18:47	295	19:11
2024	Jul	01	(Mon)	05:14	05:38	65	12:13	85N	18:47	295	19:11
2024	Jul	02	(Tue)	05:15	05:39	66	12:13	85N	18:47	294	19:11
2024	Jul	03	(Wed)	05:15	05:39	66	12:13	85N	18:47	294	19:11
2024	Jul	04	(Thu)	05:15	05:39	66	12:13	85N	18:47	294	19:11
2024	Jul	05	(Fri)	05:16	05:39	66	12:13	85N	18:47	294	19:11
2024	Jul	06	(Sat)	05:16	05:40	66	12:14	85N	18:47	294	19:11
2024	Jul	07	(Sun)	05:16	05:40	66	12:14	86N	18:47	294	19:11
2024	Jul	08	(Mon)	05:17	05:40	66	12:14	86N	18:47	294	19:11
2024	Jul	09	(Tue)	05:17	05:41	66	12:14	86N	18:47	294	19:11
2024	Jul	10	(Wed)	05:17	05:41	66	12:14	86N	18:47	294	19:11
2024	Jul	11	(Thu)	05:18	05:41	67	12:14	86N	18:47	293	19:11
2024	Jul	12	(Fri)	05:18	05:42	67	12:15	86N	18:47	293	19:11
2024	Jul	13	(Sat)	05:18	05:42	67	12:15	86N	18:47	293	19:11
2024	Jul	14	(Sun)	05:19	05:42	67	12:15	86N	18:47	293	19:11
2024	Jul	15	(Mon)	05:19	05:43	67	12:15	87N	18:47	293	19:10
2024	Jul	16	(Tue)	05:19	05:43	67	12:15	87N	18:47	293	19:10
2024	Jul	17	(Wed)	05:20	05:43	68	12:15	87N	18:46	292	19:10
2024	Jul	18	(Thu)	05:20	05:44	68	12:15	87N	18:46	292	19:10
2024	Jul	19	(Fri)	05:21	05:44	68	12:15	87N	18:46	292	19:10
2024	Jul	20	(Sat)	05:21	05:44	68	12:15	88N	18:46	292	19:09
2024	Jul	21	(Sun)	05:21	05:45	68	12:15	88N	18:46	292	19:09
2024	Jul	22	(Mon)	05:22	05:45	68	12:15	88N	18:45	291	19:09
2024	Jul	23	(Tue)	05:22	05:45	69	12:15	88N	18:45	291	19:08
2024	Jul	24	(Wed)	05:22	05:46	69	12:15	88N	18:45	291	19:08
2024	Jul	25	(Thu)	05:23	05:46	69	12:15	89N	18:44	291	19:08
2024	Jul	26	(Fri)	05:23	05:46	69	12:15	89N	18:44	290	19:07
2024	Jul	27	(Sat)	05:23	05:47	70	12:15	89N	18:44	290	19:07
2024	Jul	28	(Sun)	05:24	05:47	70	12:15	89N	18:43	290	19:07
2024	Jul	29	(Mon)	05:24	05:47	70	12:15	89N	18:43	290	19:06
2024	Jul	30	(Tue)	05:24	05:48	70	12:15	90N	18:43	290	19:06

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

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

2024	Dec	12	(Thu)	06:06	06:29	114	12:03	50S	17:36	246	17:59
2024	Dec	13	(Fri)	06:06	06:30	114	12:03	50S	17:36	246	18:00
2024	Dec	14	(Sat)	06:07	06:30	114	12:04	50S	17:37	246	18:00
2024	Dec	15	(Sun)	06:07	06:31	114	12:04	50S	17:37	246	18:01
2024	Dec	16	(Mon)	06:08	06:32	114	12:04	50S	17:37	246	18:01
2024	Dec	17	(Tue)	06:08	06:32	114	12:05	50S	17:38	246	18:01
2024	Dec	18	(Wed)	06:09	06:33	114	12:05	50S	17:38	246	18:02
2024	Dec	19	(Thu)	06:10	06:33	114	12:06	50S	17:39	246	18:02
2024	Dec	20	(Fri)	06:10	06:34	114	12:06	50S	17:39	246	18:03
2024	Dec	21	(Sat)	06:11	06:34	114	12:07	50S	17:40	246	18:03
2024	Dec	22	(Sun)	06:11	06:35	114	12:07	50S	17:40	246	18:04
2024	Dec	23	(Mon)	06:12	06:35	114	12:08	50S	17:41	246	18:04
2024	Dec	24	(Tue)	06:12	06:36	114	12:08	50S	17:41	246	18:05
2024	Dec	25	(Wed)	06:12	06:36	114	12:09	50S	17:42	246	18:05
2024	Dec	26	(Thu)	06:13	06:37	114	12:09	50S	17:42	246	18:06
2024	Dec	27	(Fri)	06:13	06:37	114	12:10	50S	17:43	246	18:07
2024	Dec	28	(Sat)	06:14	06:37	114	12:10	50S	17:44	246	18:07
2024	Dec	29	(Sun)	06:14	06:38	114	12:11	50S	17:44	246	18:08
2024	Dec	30	(Mon)	06:15	06:38	114	12:11	50S	17:45	246	18:08
2024	Dec	31	(Tue)	06:15	06:39	114	12:12	50S	17:45	246	18:09

Moon

VTED

Location: E102°48'00.0", N17°22'00.0", 579m
(Longitude referred to Greenwich meridian)

Time Zone: 7h 00m east of Greenwich

Date				Rise			Az.			Transit			Alt.			Set			Az.		
Date				h			m			h			m			h			m		
(Zone)				°			°			°			°			°			°		
2024	Jan	01	(Mon)	22:18	80					04:00	87S					10:25	282				
2024	Jan	02	(Tue)	23:05	86					04:40	81S					10:58	277				
2024	Jan	03	(Wed)	23:52	92					05:19	75S					11:30	271				
2024	Jan	04	(Thu)							05:58	69S					12:01	265				
2024	Jan	05	(Fri)	00:39	98					06:39	64S					12:35	259				
2024	Jan	06	(Sat)	01:29	104					07:22	58S					13:11	253				
2024	Jan	07	(Sun)	02:22	110					08:08	53S					13:52	248				
2024	Jan	08	(Mon)	03:19	114					09:00	49S					14:39	244				
2024	Jan	09	(Tue)	04:20	118					09:57	46S					15:32	241				
2024	Jan	10	(Wed)	05:24	120					10:59	44S					16:33	240				
2024	Jan	11	(Thu)	06:27	119					12:02	45S					17:39	242				
2024	Jan	12	(Fri)	07:26	117					13:05	48S					18:47	245				
2024	Jan	13	(Sat)	08:20	112					14:05	53S					19:53	250				
2024	Jan	14	(Sun)	09:08	106					15:00	59S					20:56	257				
2024	Jan	15	(Mon)	09:51	99					15:52	66S					21:56	264				
2024	Jan	16	(Tue)	10:32	92					16:40	73S					22:54	272				
2024	Jan	17	(Wed)	11:10	85					17:28	80S					23:50	279				
2024	Jan	18	(Thu)	11:50	78					18:16	86S										
2024	Jan	19	(Fri)	12:31	72					19:06	89N					00:47	285				
2024	Jan	20	(Sat)	13:14	67					19:57	85N					01:45	291				
2024	Jan	21	(Sun)	14:02	63					20:51	82N					02:43	295				
2024	Jan	22	(Mon)	14:54	61					21:46	80N					03:42	298				
2024	Jan	23	(Tue)	15:48	60					22:41	80N					04:39	300				
2024	Jan	24	(Wed)	16:44	62					23:35	81N					05:34	299				
2024	Jan	25	(Thu)	17:39	64											06:23	297				
2024	Jan	26	(Fri)	18:33	68					00:25	84N					07:08	294				
2024	Jan	27	(Sat)	19:24	73					01:12	88N					07:48	289				
2024	Jan	28	(Sun)	20:13	78					01:56	88S					08:24	284				
2024	Jan	29	(Mon)	21:00	84					02:37	83S					08:57	279				
2024	Jan	30	(Tue)	21:46	90					03:16	77S					09:29	273				
2024	Jan	31	(Wed)	22:33	96					03:55	71S					10:01	267				
2024	Feb	01	(Thu)	23:21	102					04:35	66S					10:33	261				
2024	Feb	02	(Fri)							05:16	60S					11:07	255				
2024	Feb	03	(Sat)	00:11	108					05:59	55S					11:45	250				
2024	Feb	04	(Sun)	01:05	113					06:47	50S					12:28	245				

2024 Feb 05 (Mon)	02:03 117	07:41 47S	13:17 242
2024 Feb 06 (Tue)	03:04 119	08:39 45S	14:13 240
2024 Feb 07 (Wed)	04:06 120	09:41 44S	15:16 241
2024 Feb 08 (Thu)	05:07 118	10:44 46S	16:23 243
2024 Feb 09 (Fri)	06:04 115	11:46 50S	17:31 248
2024 Feb 10 (Sat)	06:55 109	12:44 56S	18:37 254
2024 Feb 11 (Sun)	07:42 103	13:39 63S	19:40 261
2024 Feb 12 (Mon)	08:25 95	14:31 70S	20:41 269
2024 Feb 13 (Tue)	09:06 88	15:21 77S	21:40 276
2024 Feb 14 (Wed)	09:46 80	16:10 84S	22:39 283
2024 Feb 15 (Thu)	10:28 74	17:01 90S	23:38 289
2024 Feb 16 (Fri)	11:12 68	17:53 86N	
2024 Feb 17 (Sat)	11:59 64	18:47 82N	00:38 294
2024 Feb 18 (Sun)	12:50 61	19:42 80N	01:37 298
2024 Feb 19 (Mon)	13:43 60	20:37 80N	02:35 300
2024 Feb 20 (Tue)	14:39 61	21:31 81N	03:30 300
2024 Feb 21 (Wed)	15:34 63	22:22 83N	04:21 298
2024 Feb 22 (Thu)	16:28 67	23:09 87N	05:06 295
2024 Feb 23 (Fri)	17:19 71	23:54 90S	05:47 291
2024 Feb 24 (Sat)	18:09 76		06:24 286
2024 Feb 25 (Sun)	18:56 82	00:36 85S	06:58 281
2024 Feb 26 (Mon)	19:43 88	01:15 79S	07:31 275
2024 Feb 27 (Tue)	20:29 94	01:54 73S	08:02 269
2024 Feb 28 (Wed)	21:16 100	02:33 67S	08:34 263
2024 Feb 29 (Thu)	22:05 106	03:13 62S	09:07 257
2024 Mar 01 (Fri)	22:57 111	03:56 56S	09:43 252
2024 Mar 02 (Sat)	23:52 115	04:41 52S	10:23 247
2024 Mar 03 (Sun)		05:31 48S	11:08 243
2024 Mar 04 (Mon)	00:50 118	06:25 45S	12:00 241
2024 Mar 05 (Tue)	01:50 120	07:24 44S	12:58 240
2024 Mar 06 (Wed)	02:50 120	08:25 45S	14:01 241
2024 Mar 07 (Thu)	03:47 117	09:26 48S	15:07 245
2024 Mar 08 (Fri)	04:40 113	10:25 53S	16:13 250
2024 Mar 09 (Sat)	05:29 106	11:21 59S	17:17 257
2024 Mar 10 (Sun)	06:14 99	12:15 66S	18:20 264
2024 Mar 11 (Mon)	06:56 92	13:06 73S	19:21 272
2024 Mar 12 (Tue)	07:38 84	13:58 81S	20:22 280
2024 Mar 13 (Wed)	08:20 77	14:49 88S	21:24 287
2024 Mar 14 (Thu)	09:05 70	15:43 88N	22:25 293
2024 Mar 15 (Fri)	09:52 65	16:38 83N	23:27 297
2024 Mar 16 (Sat)	10:43 62	17:35 80N	
2024 Mar 17 (Sun)	11:37 60	18:31 79N	00:28 299
2024 Mar 18 (Mon)	12:33 60	19:26 80N	01:25 300
2024 Mar 19 (Tue)	13:29 62	20:18 82N	02:18 299
2024 Mar 20 (Wed)	14:23 65	21:07 85N	03:05 296
2024 Mar 21 (Thu)	15:15 70	21:52 90N	03:48 293
2024 Mar 22 (Fri)	16:05 75	22:35 87S	04:25 288
2024 Mar 23 (Sat)	16:53 80	23:15 81S	05:00 283
2024 Mar 24 (Sun)	17:40 86	23:54 75S	05:33 277
2024 Mar 25 (Mon)	18:26 92		06:04 271
2024 Mar 26 (Tue)	19:13 98	00:33 69S	06:36 265
2024 Mar 27 (Wed)	20:02 104	01:13 64S	07:08 259
2024 Mar 28 (Thu)	20:53 110	01:54 58S	07:43 253
2024 Mar 29 (Fri)	21:47 114	02:39 53S	08:22 248
2024 Mar 30 (Sat)	22:43 118	03:27 49S	09:05 244
2024 Mar 31 (Sun)	23:42 120	04:19 46S	09:54 241
2024 Apr 01 (Mon)		05:15 44S	10:48 240
2024 Apr 02 (Tue)	00:40 120	06:14 44S	11:48 240
2024 Apr 03 (Wed)	01:37 118	07:13 46S	12:51 243
2024 Apr 04 (Thu)	02:30 115	08:10 50S	13:55 247
2024 Apr 05 (Fri)	03:18 110	09:06 55S	14:58 253
2024 Apr 06 (Sat)	04:03 103	09:59 62S	15:59 260
2024 Apr 07 (Sun)	04:46 96	10:51 69S	17:00 268
2024 Apr 08 (Mon)	05:27 88	11:42 77S	18:01 276
2024 Apr 09 (Tue)	06:09 80	12:33 84S	19:03 283
2024 Apr 10 (Wed)	06:53 73	13:27 91N	20:06 290
2024 Apr 11 (Thu)	07:40 67	14:23 85N	21:10 295

2024 Apr 12 (Fri)	08:31 63	15:21 81N	22:13 299
2024 Apr 13 (Sat)	09:26 61	16:20 80N	23:14 300
2024 Apr 14 (Sun)	10:23 60	17:17 80N	
2024 Apr 15 (Mon)	11:20 61	18:12 81N	00:10 300
2024 Apr 16 (Tue)	12:16 64	19:03 84N	01:01 297
2024 Apr 17 (Wed)	13:10 68	19:49 88N	01:46 294
2024 Apr 18 (Thu)	14:01 73	20:33 88S	02:25 290
2024 Apr 19 (Fri)	14:49 78	21:14 83S	03:01 284
2024 Apr 20 (Sat)	15:36 84	21:53 77S	03:34 279
2024 Apr 21 (Sun)	16:23 90	22:32 71S	04:06 273
2024 Apr 22 (Mon)	17:10 96	23:11 66S	04:37 267
2024 Apr 23 (Tue)	17:58 102	23:53 60S	05:10 261
2024 Apr 24 (Wed)	18:48 108		05:44 255
2024 Apr 25 (Thu)	19:42 113	00:36 55S	06:22 250
2024 Apr 26 (Fri)	20:38 117	01:24 50S	07:04 245
2024 Apr 27 (Sat)	21:36 119	02:15 47S	07:51 242
2024 Apr 28 (Sun)	22:35 120	03:11 45S	08:44 240
2024 Apr 29 (Mon)	23:32 119	04:08 44S	09:42 240
2024 Apr 30 (Tue)		05:06 46S	10:43 242
2024 May 01 (Wed)	00:25 116	06:04 49S	11:45 246
2024 May 02 (Thu)	01:13 112	06:58 53S	12:46 251
2024 May 03 (Fri)	01:58 106	07:50 59S	13:47 257
2024 May 04 (Sat)	02:40 99	08:40 66S	14:46 265
2024 May 05 (Sun)	03:20 91	09:30 73S	15:44 272
2024 May 06 (Mon)	04:00 84	10:20 81S	16:44 280
2024 May 07 (Tue)	04:42 77	11:11 88S	17:45 287
2024 May 08 (Wed)	05:27 70	12:06 88N	18:49 293
2024 May 09 (Thu)	06:17 65	13:03 83N	19:53 297
2024 May 10 (Fri)	07:10 62	14:03 80N	20:57 299
2024 May 11 (Sat)	08:08 60	15:03 79N	21:57 300
2024 May 12 (Sun)	09:07 61	16:00 80N	22:52 298
2024 May 13 (Mon)	10:05 63	16:54 83N	23:40 295
2024 May 14 (Tue)	11:01 66	17:43 87N	
2024 May 15 (Wed)	11:54 71	18:29 90S	00:22 291
2024 May 16 (Thu)	12:44 76	19:11 85S	01:00 286
2024 May 17 (Fri)	13:31 82	19:51 79S	01:34 281
2024 May 18 (Sat)	14:18 88	20:29 74S	02:06 275
2024 May 19 (Sun)	15:04 94	21:09 68S	02:38 269
2024 May 20 (Mon)	15:52 100	21:49 62S	03:09 263
2024 May 21 (Tue)	16:41 106	22:32 56S	03:43 257
2024 May 22 (Wed)	17:34 111	23:19 52S	04:19 252
2024 May 23 (Thu)	18:30 115		05:00 247
2024 May 24 (Fri)	19:29 118	00:09 48S	05:46 243
2024 May 25 (Sat)	20:28 120	01:04 45S	06:38 241
2024 May 26 (Sun)	21:27 119	02:02 44S	07:36 240
2024 May 27 (Mon)	22:21 117	03:01 45S	08:37 241
2024 May 28 (Tue)	23:11 113	03:59 48S	09:39 245
2024 May 29 (Wed)	23:57 107	04:54 52S	10:41 249
2024 May 30 (Thu)		05:47 58S	11:40 255
2024 May 31 (Fri)	00:38 101	06:36 64S	12:38 262
2024 Jun 01 (Sat)	01:18 94	07:24 71S	13:35 270
2024 Jun 02 (Sun)	01:57 87	08:12 78S	14:33 277
2024 Jun 03 (Mon)	02:37 79	09:02 85S	15:32 284
2024 Jun 04 (Tue)	03:19 73	09:54 90N	16:33 290
2024 Jun 05 (Wed)	04:06 67	10:49 85N	17:36 295
2024 Jun 06 (Thu)	04:57 63	11:47 81N	18:39 298
2024 Jun 07 (Fri)	05:53 61	12:47 80N	19:41 300
2024 Jun 08 (Sat)	06:52 60	13:46 80N	20:39 299
2024 Jun 09 (Sun)	07:51 62	14:42 82N	21:31 297
2024 Jun 10 (Mon)	08:49 65	15:34 85N	22:16 293
2024 Jun 11 (Tue)	09:44 69	16:22 89N	22:56 288
2024 Jun 12 (Wed)	10:35 74	17:06 87S	23:32 283
2024 Jun 13 (Thu)	11:24 80	17:47 82S	
2024 Jun 14 (Fri)	12:11 86	18:26 76S	00:05 277
2024 Jun 15 (Sat)	12:58 92	19:05 70S	00:37 271
2024 Jun 16 (Sun)	13:44 98	19:44 64S	01:08 265
2024 Jun 17 (Mon)	14:33 104	20:26 59S	01:41 259

2024 Jun 18 (Tue)	15:24 109	21:11 53S	02:16 254
2024 Jun 19 (Wed)	16:19 114	22:00 49S	02:55 249
2024 Jun 20 (Thu)	17:17 117	22:54 46S	03:39 244
2024 Jun 21 (Fri)	18:17 120	23:51 44S	04:29 241
2024 Jun 22 (Sat)	19:17 120		05:25 240
2024 Jun 23 (Sun)	20:15 118	00:51 45S	06:26 241
2024 Jun 24 (Mon)	21:07 114	01:51 47S	07:30 243
2024 Jun 25 (Tue)	21:55 109	02:49 51S	08:33 248
2024 Jun 26 (Wed)	22:38 103	03:43 56S	09:35 254
2024 Jun 27 (Thu)	23:18 96	04:34 62S	10:34 260
2024 Jun 28 (Fri)	23:57 89	05:22 69S	11:31 268
2024 Jun 29 (Sat)		06:10 76S	12:28 275
2024 Jun 30 (Sun)	00:36 81	06:58 83S	13:25 282
2024 Jul 01 (Mon)	01:17 75	07:48 89S	14:24 288
2024 Jul 02 (Tue)	02:01 69	08:41 87N	15:25 294
2024 Jul 03 (Wed)	02:49 64	09:36 83N	16:27 298
2024 Jul 04 (Thu)	03:42 61	10:35 80N	17:29 300
2024 Jul 05 (Fri)	04:39 60	11:33 80N	18:28 300
2024 Jul 06 (Sat)	05:38 61	12:31 81N	19:21 298
2024 Jul 07 (Sun)	06:37 63	13:25 84N	20:09 295
2024 Jul 08 (Mon)	07:33 67	14:14 88N	20:51 290
2024 Jul 09 (Tue)	08:26 72	15:00 89S	21:29 285
2024 Jul 10 (Wed)	09:17 78	15:42 84S	22:03 279
2024 Jul 11 (Thu)	10:04 84	16:22 78S	22:35 273
2024 Jul 12 (Fri)	10:51 90	17:01 72S	23:07 267
2024 Jul 13 (Sat)	11:37 96	17:40 66S	23:39 261
2024 Jul 14 (Sun)	12:25 102	18:20 61S	
2024 Jul 15 (Mon)	13:14 107	19:03 55S	00:12 256
2024 Jul 16 (Tue)	14:07 112	19:50 51S	00:49 250
2024 Jul 17 (Wed)	15:03 116	20:41 47S	01:30 246
2024 Jul 18 (Thu)	16:02 119	21:37 45S	02:17 242
2024 Jul 19 (Fri)	17:02 120	22:36 44S	03:11 240
2024 Jul 20 (Sat)	18:02 119	23:37 46S	04:10 240
2024 Jul 21 (Sun)	18:57 116		05:14 242
2024 Jul 22 (Mon)	19:48 111	00:37 49S	06:19 246
2024 Jul 23 (Tue)	20:34 105	01:34 54S	07:23 251
2024 Jul 24 (Wed)	21:16 98	02:27 60S	08:25 258
2024 Jul 25 (Thu)	21:57 91	03:18 67S	09:24 265
2024 Jul 26 (Fri)	22:36 83	04:07 74S	10:22 273
2024 Jul 27 (Sat)	23:16 76	04:56 81S	11:20 280
2024 Jul 28 (Sun)	23:59 70	05:45 88S	12:19 287
2024 Jul 29 (Mon)		06:37 88N	13:19 292
2024 Jul 30 (Tue)	00:46 65	07:31 83N	14:20 297
2024 Jul 31 (Wed)	01:37 62	08:28 81N	15:21 299
2024 Aug 01 (Thu)	02:32 60	09:26 79N	16:20 300
2024 Aug 02 (Fri)	03:29 60	10:23 80N	17:15 299
2024 Aug 03 (Sat)	04:28 62	11:17 82N	18:04 296
2024 Aug 04 (Sun)	05:25 66	12:08 86N	18:48 292
2024 Aug 05 (Mon)	06:19 70	12:55 91N	19:27 287
2024 Aug 06 (Tue)	07:10 76	13:38 86S	20:02 281
2024 Aug 07 (Wed)	07:59 81	14:19 80S	20:35 276
2024 Aug 08 (Thu)	08:45 87	14:58 74S	21:07 269
2024 Aug 09 (Fri)	09:32 94	15:37 68S	21:38 263
2024 Aug 10 (Sat)	10:18 100	16:16 63S	22:11 258
2024 Aug 11 (Sun)	11:06 105	16:57 57S	22:45 252
2024 Aug 12 (Mon)	11:57 110	17:42 52S	23:24 247
2024 Aug 13 (Tue)	12:50 115	18:30 48S	
2024 Aug 14 (Wed)	13:47 118	19:23 46S	00:07 244
2024 Aug 15 (Thu)	14:46 120	20:20 44S	00:57 241
2024 Aug 16 (Fri)	15:45 120	21:19 45S	01:53 240
2024 Aug 17 (Sat)	16:43 118	22:20 47S	02:54 241
2024 Aug 18 (Sun)	17:36 114	23:18 51S	03:59 244
2024 Aug 19 (Mon)	18:25 108		05:04 249
2024 Aug 20 (Tue)	19:09 101	00:14 57S	06:08 255
2024 Aug 21 (Wed)	19:51 94	01:08 64S	07:10 262
2024 Aug 22 (Thu)	20:32 86	01:59 71S	08:11 270
2024 Aug 23 (Fri)	21:13 79	02:49 79S	09:10 278

2024 Aug 24 (Sat)	21:56	72	03:40	86S	10:10	285
2024 Aug 25 (Sun)	22:43	67	04:32	89N	11:12	291
2024 Aug 26 (Mon)	23:33	63	05:26	85N	12:14	296
2024 Aug 27 (Tue)			06:23	81N	13:16	299
2024 Aug 28 (Wed)	00:27	60	07:21	79N	14:16	300
2024 Aug 29 (Thu)	01:24	60	08:18	80N	15:11	299
2024 Aug 30 (Fri)	02:22	61	09:13	81N	16:02	297
2024 Aug 31 (Sat)	03:19	64	10:05	85N	16:47	293
2024 Sep 01 (Sun)	04:13	69	10:52	89N	17:27	289
2024 Sep 02 (Mon)	05:05	74	11:36	88S	18:03	283
2024 Sep 03 (Tue)	05:54	79	12:17	82S	18:36	278
2024 Sep 04 (Wed)	06:41	85	12:57	76S	19:08	272
2024 Sep 05 (Thu)	07:28	91	13:35	70S	19:39	266
2024 Sep 06 (Fri)	08:14	98	14:14	64S	20:11	260
2024 Sep 07 (Sat)	09:01	103	14:55	59S	20:45	254
2024 Sep 08 (Sun)	09:51	109	15:37	54S	21:21	249
2024 Sep 09 (Mon)	10:42	113	16:23	50S	22:02	245
2024 Sep 10 (Tue)	11:37	117	17:13	46S	22:48	242
2024 Sep 11 (Wed)	12:34	119	18:07	44S	23:40	240
2024 Sep 12 (Thu)	13:31	120	19:04	44S		
2024 Sep 13 (Fri)	14:28	119	20:03	45S	00:38	240
2024 Sep 14 (Sat)	15:22	116	21:01	49S	01:39	242
2024 Sep 15 (Sun)	16:12	111	21:58	54S	02:43	246
2024 Sep 16 (Mon)	16:58	105	22:52	60S	03:47	251
2024 Sep 17 (Tue)	17:42	98	23:44	67S	04:50	258
2024 Sep 18 (Wed)	18:23	90			05:51	266
2024 Sep 19 (Thu)	19:05	82	00:36	75S	06:53	274
2024 Sep 20 (Fri)	19:49	75	01:27	83S	07:54	282
2024 Sep 21 (Sat)	20:35	69	02:21	89S	08:58	289
2024 Sep 22 (Sun)	21:26	64	03:16	86N	10:02	294
2024 Sep 23 (Mon)	22:20	61	04:14	82N	11:06	298
2024 Sep 24 (Tue)	23:18	60	05:14	80N	12:09	300
2024 Sep 25 (Wed)			06:13	79N	13:07	300
2024 Sep 26 (Thu)	00:16	61	07:09	81N	14:00	298
2024 Sep 27 (Fri)	01:14	63	08:02	83N	14:46	295
2024 Sep 28 (Sat)	02:09	67	08:50	87N	15:27	290
2024 Sep 29 (Sun)	03:02	72	09:35	89S	16:04	285
2024 Sep 30 (Mon)	03:51	77	10:17	84S	16:38	280
2024 Oct 01 (Tue)	04:39	83	10:56	78S	17:10	274
2024 Oct 02 (Wed)	05:25	89	11:35	72S	17:41	267
2024 Oct 03 (Thu)	06:11	96	12:14	66S	18:13	262
2024 Oct 04 (Fri)	06:58	102	12:54	61S	18:46	256
2024 Oct 05 (Sat)	07:47	107	13:36	55S	19:21	251
2024 Oct 06 (Sun)	08:38	112	14:20	51S	20:01	246
2024 Oct 07 (Mon)	09:31	116	15:09	47S	20:45	243
2024 Oct 08 (Tue)	10:26	119	16:01	45S	21:34	240
2024 Oct 09 (Wed)	11:23	120	16:55	44S	22:28	240
2024 Oct 10 (Thu)	12:19	120	17:52	45S	23:26	241
2024 Oct 11 (Fri)	13:12	118	18:48	47S		
2024 Oct 12 (Sat)	14:02	114	19:44	51S	00:27	244
2024 Oct 13 (Sun)	14:48	108	20:37	57S	01:29	249
2024 Oct 14 (Mon)	15:31	102	21:29	63S	02:30	255
2024 Oct 15 (Tue)	16:13	94	22:20	71S	03:31	262
2024 Oct 16 (Wed)	16:54	86	23:11	79S	04:31	270
2024 Oct 17 (Thu)	17:37	79			05:33	278
2024 Oct 18 (Fri)	18:23	72	00:04	86S	06:36	285
2024 Oct 19 (Sat)	19:12	66	00:59	89N	07:41	292
2024 Oct 20 (Sun)	20:07	62	01:58	84N	08:48	296
2024 Oct 21 (Mon)	21:06	60	02:59	81N	09:54	299
2024 Oct 22 (Tue)	22:06	60	04:01	79N	10:56	300
2024 Oct 23 (Wed)	23:06	62	05:00	80N	11:53	299
2024 Oct 24 (Thu)			05:56	82N	12:43	296
2024 Oct 25 (Fri)	00:03	66	06:47	86N	13:27	292
2024 Oct 26 (Sat)	00:57	70	07:33	91N	14:05	287
2024 Oct 27 (Sun)	01:48	76	08:16	86S	14:40	281
2024 Oct 28 (Mon)	02:36	81	08:56	80S	15:12	276
2024 Oct 29 (Tue)	03:22	87	09:35	74S	15:43	269

2024	Oct	30	(Wed)	04:08	94	10:13	68S	16:15	263
2024	Oct	31	(Thu)	04:55	100	10:53	62S	16:47	258
2024	Nov	01	(Fri)	05:43	105	11:34	57S	17:22	252
2024	Nov	02	(Sat)	06:34	110	12:18	52S	18:00	247
2024	Nov	03	(Sun)	07:27	115	13:06	48S	18:43	244
2024	Nov	04	(Mon)	08:22	118	13:57	46S	19:31	241
2024	Nov	05	(Tue)	09:18	120	14:51	44S	20:23	240
2024	Nov	06	(Wed)	10:14	120	15:47	44S	21:20	241
2024	Nov	07	(Thu)	11:07	118	16:42	46S	22:19	243
2024	Nov	08	(Fri)	11:57	115	17:37	50S	23:19	247
2024	Nov	09	(Sat)	12:43	110	18:29	55S		
2024	Nov	10	(Sun)	13:25	104	19:19	61S	00:18	252
2024	Nov	11	(Mon)	14:06	98	20:08	67S	01:17	259
2024	Nov	12	(Tue)	14:46	90	20:57	75S	02:15	266
2024	Nov	13	(Wed)	15:26	83	21:48	82S	03:13	274
2024	Nov	14	(Thu)	16:09	75	22:41	89S	04:14	281
2024	Nov	15	(Fri)	16:57	69	23:38	86N	05:17	288
2024	Nov	16	(Sat)	17:49	64			06:24	294
2024	Nov	17	(Sun)	18:47	61	00:39	82N	07:31	298
2024	Nov	18	(Mon)	19:49	60	01:42	80N	08:37	300
2024	Nov	19	(Tue)	20:51	61	02:44	79N	09:39	300
2024	Nov	20	(Wed)	21:51	64	03:44	81N	10:34	297
2024	Nov	21	(Thu)	22:48	69	04:38	84N	11:21	294
2024	Nov	22	(Fri)	23:41	74	05:27	89N	12:02	289
2024	Nov	23	(Sat)			06:12	87S	12:39	283
2024	Nov	24	(Sun)	00:31	79	06:54	82S	13:12	278
2024	Nov	25	(Mon)	01:18	85	07:33	76S	13:44	272
2024	Nov	26	(Tue)	02:04	92	08:12	70S	14:15	266
2024	Nov	27	(Wed)	02:51	98	08:51	64S	14:48	260
2024	Nov	28	(Thu)	03:38	103	09:31	59S	15:21	254
2024	Nov	29	(Fri)	04:28	109	10:15	54S	15:59	249
2024	Nov	30	(Sat)	05:20	113	11:01	50S	16:40	245
2024	Dec	01	(Sun)	06:15	117	11:52	46S	17:27	242
2024	Dec	02	(Mon)	07:12	119	12:46	45S	18:19	240
2024	Dec	03	(Tue)	08:09	120	13:42	44S	19:15	240
2024	Dec	04	(Wed)	09:03	119	14:38	46S	20:14	242
2024	Dec	05	(Thu)	09:55	116	15:33	49S	21:14	246
2024	Dec	06	(Fri)	10:41	112	16:26	53S	22:13	251
2024	Dec	07	(Sat)	11:24	106	17:15	59S	23:10	257
2024	Dec	08	(Sun)	12:04	100	18:03	65S		
2024	Dec	09	(Mon)	12:43	93	18:51	72S	00:07	264
2024	Dec	10	(Tue)	13:21	85	19:39	79S	01:03	271
2024	Dec	11	(Wed)	14:02	78	20:29	86S	02:01	278
2024	Dec	12	(Thu)	14:46	72	21:22	89N	03:00	285
2024	Dec	13	(Fri)	15:34	66	22:20	84N	04:03	291
2024	Dec	14	(Sat)	16:29	62	23:21	81N	05:09	296
2024	Dec	15	(Sun)	17:29	60			06:16	299
2024	Dec	16	(Mon)	18:32	61	00:24	79N	07:20	300
2024	Dec	17	(Tue)	19:34	63	01:26	80N	08:19	298
2024	Dec	18	(Wed)	20:34	67	02:24	83N	09:10	295
2024	Dec	19	(Thu)	21:30	72	03:17	87N	09:55	291
2024	Dec	20	(Fri)	22:22	77	04:05	90S	10:35	286
2024	Dec	21	(Sat)	23:11	83	04:48	84S	11:10	280
2024	Dec	22	(Sun)	23:58	89	05:29	78S	11:43	274
2024	Dec	23	(Mon)			06:08	72S	12:15	268
2024	Dec	24	(Tue)	00:44	95	06:47	66S	12:46	262
2024	Dec	25	(Wed)	01:31	101	07:27	61S	13:19	256
2024	Dec	26	(Thu)	02:20	107	08:09	56S	13:55	251
2024	Dec	27	(Fri)	03:11	112	08:54	51S	14:35	246
2024	Dec	28	(Sat)	04:05	116	09:43	48S	15:19	243
2024	Dec	29	(Sun)	05:01	119	10:36	45S	16:10	241
2024	Dec	30	(Mon)	05:59	120	11:32	44S	17:05	240
2024	Dec	31	(Tue)	06:56	119	12:30	45S	18:05	241