

Sun

VTDT

Location: E101°09'00.0", N 6°47'00.0", 8m
(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)	05:38	06:26 113		12:19 61S	18:11 247		18:59
2024 Jan 02 (Tue)	05:38	06:27 113		12:19 61S	18:11 247		19:00
2024 Jan 03 (Wed)	05:39	06:27 113		12:20 61S	18:12 247		19:00
2024 Jan 04 (Thu)	05:39	06:28 113		12:20 61S	18:12 247		19:01
2024 Jan 05 (Fri)	05:40	06:28 113		12:20 61S	18:13 247		19:01
2024 Jan 06 (Sat)	05:40	06:28 113		12:21 61S	18:13 247		19:02
2024 Jan 07 (Sun)	05:40	06:29 113		12:21 61S	18:14 248		19:02
2024 Jan 08 (Mon)	05:41	06:29 112		12:22 62S	18:14 248		19:03
2024 Jan 09 (Tue)	05:41	06:30 112		12:22 62S	18:15 248		19:03
2024 Jan 10 (Wed)	05:42	06:30 112		12:23 62S	18:15 248		19:04
2024 Jan 11 (Thu)	05:42	06:30 112		12:23 62S	18:16 248		19:04
2024 Jan 12 (Fri)	05:42	06:31 112		12:23 62S	18:16 248		19:05
2024 Jan 13 (Sat)	05:43	06:31 112		12:24 62S	18:17 248		19:05
2024 Jan 14 (Sun)	05:43	06:31 111		12:24 63S	18:17 249		19:05
2024 Jan 15 (Mon)	05:43	06:31 111		12:25 63S	18:18 249		19:06
2024 Jan 16 (Tue)	05:44	06:32 111		12:25 63S	18:18 249		19:06
2024 Jan 17 (Wed)	05:44	06:32 111		12:25 63S	18:19 249		19:07
2024 Jan 18 (Thu)	05:44	06:32 111		12:26 63S	18:19 249		19:07
2024 Jan 19 (Fri)	05:45	06:32 111		12:26 63S	18:19 250		19:07
2024 Jan 20 (Sat)	05:45	06:33 110		12:26 64S	18:20 250		19:08
2024 Jan 21 (Sun)	05:45	06:33 110		12:26 64S	18:20 250		19:08
2024 Jan 22 (Mon)	05:45	06:33 110		12:27 64S	18:21 250		19:08
2024 Jan 23 (Tue)	05:46	06:33 110		12:27 64S	18:21 250		19:09
2024 Jan 24 (Wed)	05:46	06:33 109		12:27 65S	18:21 251		19:09
2024 Jan 25 (Thu)	05:46	06:33 109		12:28 65S	18:22 251		19:09
2024 Jan 26 (Fri)	05:46	06:33 109		12:28 65S	18:22 251		19:09
2024 Jan 27 (Sat)	05:46	06:34 109		12:28 65S	18:22 251		19:10
2024 Jan 28 (Sun)	05:46	06:34 108		12:28 66S	18:23 252		19:10
2024 Jan 29 (Mon)	05:47	06:34 108		12:28 66S	18:23 252		19:10
2024 Jan 30 (Tue)	05:47	06:34 108		12:29 66S	18:23 252		19:10
2024 Jan 31 (Wed)	05:47	06:34 108		12:29 66S	18:24 253		19:11
2024 Feb 01 (Thu)	05:47	06:34 107		12:29 67S	18:24 253		19:11
2024 Feb 02 (Fri)	05:47	06:34 107		12:29 67S	18:24 253		19:11
2024 Feb 03 (Sat)	05:47	06:34 107		12:29 67S	18:25 253		19:11
2024 Feb 04 (Sun)	05:47	06:34 106		12:29 68S	18:25 254		19:11
2024 Feb 05 (Mon)	05:47	06:34 106		12:29 68S	18:25 254		19:12
2024 Feb 06 (Tue)	05:47	06:34 106		12:29 68S	18:25 254		19:12
2024 Feb 07 (Wed)	05:47	06:34 106		12:29 68S	18:25 255		19:12
2024 Feb 08 (Thu)	05:47	06:33 105		12:30 69S	18:26 255		19:12
2024 Feb 09 (Fri)	05:47	06:33 105		12:30 69S	18:26 255		19:12
2024 Feb 10 (Sat)	05:47	06:33 105		12:30 69S	18:26 256		19:12
2024 Feb 11 (Sun)	05:47	06:33 104		12:30 70S	18:26 256		19:12
2024 Feb 12 (Mon)	05:47	06:33 104		12:30 70S	18:26 256		19:13
2024 Feb 13 (Tue)	05:47	06:33 104		12:30 70S	18:27 257		19:13
2024 Feb 14 (Wed)	05:46	06:33 103		12:30 71S	18:27 257		19:13
2024 Feb 15 (Thu)	05:46	06:32 103		12:30 71S	18:27 257		19:13
2024 Feb 16 (Fri)	05:46	06:32 103		12:29 71S	18:27 258		19:13
2024 Feb 17 (Sat)	05:46	06:32 102		12:29 72S	18:27 258		19:13
2024 Feb 18 (Sun)	05:46	06:32 102		12:29 72S	18:27 258		19:13
2024 Feb 19 (Mon)	05:46	06:31 102		12:29 72S	18:27 259		19:13
2024 Feb 20 (Tue)	05:45	06:31 101		12:29 73S	18:27 259		19:13
2024 Feb 21 (Wed)	05:45	06:31 101		12:29 73S	18:27 259		19:13
2024 Feb 22 (Thu)	05:45	06:31 100		12:29 74S	18:27 260		19:13
2024 Feb 23 (Fri)	05:45	06:30 100		12:29 74S	18:27 260		19:13
2024 Feb 24 (Sat)	05:44	06:30 100		12:29 74S	18:27 260		19:13

2024	Feb	25	(Sun)	05:44	06:30	99	12:29	75S	18:27	261	19:13
2024	Feb	26	(Mon)	05:44	06:29	99	12:28	75S	18:28	261	19:13
2024	Feb	27	(Tue)	05:44	06:29	99	12:28	75S	18:28	262	19:13
2024	Feb	28	(Wed)	05:43	06:29	98	12:28	76S	18:28	262	19:13
2024	Feb	29	(Thu)	05:43	06:28	98	12:28	76S	18:28	262	19:13
2024	Mar	01	(Fri)	05:43	06:28	97	12:28	77S	18:27	263	19:13
2024	Mar	02	(Sat)	05:42	06:28	97	12:27	77S	18:27	263	19:13
2024	Mar	03	(Sun)	05:42	06:27	97	12:27	77S	18:27	264	19:13
2024	Mar	04	(Mon)	05:42	06:27	96	12:27	78S	18:27	264	19:13
2024	Mar	05	(Tue)	05:41	06:26	96	12:27	78S	18:27	264	19:13
2024	Mar	06	(Wed)	05:41	06:26	96	12:27	78S	18:27	265	19:12
2024	Mar	07	(Thu)	05:40	06:26	95	12:26	79S	18:27	265	19:12
2024	Mar	08	(Fri)	05:40	06:25	95	12:26	79S	18:27	265	19:12
2024	Mar	09	(Sat)	05:40	06:25	94	12:26	80S	18:27	266	19:12
2024	Mar	10	(Sun)	05:39	06:24	94	12:26	80S	18:27	266	19:12
2024	Mar	11	(Mon)	05:39	06:24	94	12:25	80S	18:27	267	19:12
2024	Mar	12	(Tue)	05:38	06:23	93	12:25	81S	18:27	267	19:12
2024	Mar	13	(Wed)	05:38	06:23	93	12:25	81S	18:27	267	19:12
2024	Mar	14	(Thu)	05:37	06:22	92	12:25	82S	18:27	268	19:12
2024	Mar	15	(Fri)	05:37	06:22	92	12:24	82S	18:27	268	19:12
2024	Mar	16	(Sat)	05:36	06:21	92	12:24	82S	18:27	269	19:12
2024	Mar	17	(Sun)	05:36	06:21	91	12:24	83S	18:26	269	19:11
2024	Mar	18	(Mon)	05:36	06:21	91	12:23	83S	18:26	269	19:11
2024	Mar	19	(Tue)	05:35	06:20	90	12:23	84S	18:26	270	19:11
2024	Mar	20	(Wed)	05:35	06:20	90	12:23	84S	18:26	270	19:11
2024	Mar	21	(Thu)	05:34	06:19	90	12:23	84S	18:26	271	19:11
2024	Mar	22	(Fri)	05:34	06:19	89	12:22	85S	18:26	271	19:11
2024	Mar	23	(Sat)	05:33	06:18	89	12:22	85S	18:26	271	19:11
2024	Mar	24	(Sun)	05:33	06:18	88	12:22	86S	18:26	272	19:11
2024	Mar	25	(Mon)	05:32	06:17	88	12:21	86S	18:26	272	19:11
2024	Mar	26	(Tue)	05:32	06:17	88	12:21	86S	18:25	273	19:11
2024	Mar	27	(Wed)	05:31	06:16	87	12:21	87S	18:25	273	19:10
2024	Mar	28	(Thu)	05:31	06:16	87	12:20	87S	18:25	273	19:10
2024	Mar	29	(Fri)	05:30	06:15	86	12:20	87S	18:25	274	19:10
2024	Mar	30	(Sat)	05:30	06:15	86	12:20	88S	18:25	274	19:10
2024	Mar	31	(Sun)	05:29	06:14	86	12:19	88S	18:25	275	19:10
2024	Apr	01	(Mon)	05:29	06:14	85	12:19	89S	18:25	275	19:10
2024	Apr	02	(Tue)	05:28	06:13	85	12:19	89S	18:25	275	19:10
2024	Apr	03	(Wed)	05:27	06:13	84	12:19	89S	18:25	276	19:10
2024	Apr	04	(Thu)	05:27	06:12	84	12:18	90S	18:24	276	19:10
2024	Apr	05	(Fri)	05:26	06:12	84	12:18	90S	18:24	277	19:10
2024	Apr	06	(Sat)	05:26	06:11	83	12:18	91S	18:24	277	19:10
2024	Apr	07	(Sun)	05:25	06:11	83	12:17	90N	18:24	277	19:10
2024	Apr	08	(Mon)	05:25	06:10	83	12:17	90N	18:24	278	19:10
2024	Apr	09	(Tue)	05:24	06:10	82	12:17	90N	18:24	278	19:09
2024	Apr	10	(Wed)	05:24	06:09	82	12:17	89N	18:24	278	19:09
2024	Apr	11	(Thu)	05:23	06:09	81	12:16	89N	18:24	279	19:09
2024	Apr	12	(Fri)	05:23	06:09	81	12:16	89N	18:24	279	19:09
2024	Apr	13	(Sat)	05:22	06:08	81	12:16	88N	18:24	279	19:09
2024	Apr	14	(Sun)	05:22	06:08	80	12:16	88N	18:24	280	19:09
2024	Apr	15	(Mon)	05:22	06:07	80	12:15	88N	18:24	280	19:09
2024	Apr	16	(Tue)	05:21	06:07	80	12:15	87N	18:23	281	19:09
2024	Apr	17	(Wed)	05:21	06:06	79	12:15	87N	18:23	281	19:09
2024	Apr	18	(Thu)	05:20	06:06	79	12:15	86N	18:23	281	19:09
2024	Apr	19	(Fri)	05:20	06:06	79	12:14	86N	18:23	282	19:09
2024	Apr	20	(Sat)	05:19	06:05	78	12:14	86N	18:23	282	19:09
2024	Apr	21	(Sun)	05:19	06:05	78	12:14	85N	18:23	282	19:09
2024	Apr	22	(Mon)	05:18	06:05	78	12:14	85N	18:23	283	19:10
2024	Apr	23	(Tue)	05:18	06:04	77	12:14	85N	18:23	283	19:10
2024	Apr	24	(Wed)	05:18	06:04	77	12:14	84N	18:23	283	19:10
2024	Apr	25	(Thu)	05:17	06:04	77	12:13	84N	18:23	284	19:10
2024	Apr	26	(Fri)	05:17	06:03	76	12:13	84N	18:23	284	19:10
2024	Apr	27	(Sat)	05:16	06:03	76	12:13	83N	18:23	284	19:10
2024	Apr	28	(Sun)	05:16	06:03	76	12:13	83N	18:23	285	19:10
2024	Apr	29	(Mon)	05:16	06:02	75	12:13	83N	18:23	285	19:10
2024	Apr	30	(Tue)	05:15	06:02	75	12:13	83N	18:23	285	19:10
2024	May	01	(Wed)	05:15	06:02	75	12:12	82N	18:23	286	19:10

2024	May	02	(Thu)	05:14	06:01	74	12:12	82N	18:23	286	19:10
2024	May	03	(Fri)	05:14	06:01	74	12:12	82N	18:23	286	19:11
2024	May	04	(Sat)	05:14	06:01	74	12:12	81N	18:24	286	19:11
2024	May	05	(Sun)	05:13	06:01	73	12:12	81N	18:24	287	19:11
2024	May	06	(Mon)	05:13	06:00	73	12:12	81N	18:24	287	19:11
2024	May	07	(Tue)	05:13	06:00	73	12:12	81N	18:24	287	19:11
2024	May	08	(Wed)	05:13	06:00	73	12:12	80N	18:24	288	19:11
2024	May	09	(Thu)	05:12	06:00	72	12:12	80N	18:24	288	19:11
2024	May	10	(Fri)	05:12	06:00	72	12:12	80N	18:24	288	19:12
2024	May	11	(Sat)	05:12	05:59	72	12:12	79N	18:24	288	19:12
2024	May	12	(Sun)	05:12	05:59	72	12:12	79N	18:24	289	19:12
2024	May	13	(Mon)	05:11	05:59	71	12:12	79N	18:24	289	19:12
2024	May	14	(Tue)	05:11	05:59	71	12:12	79N	18:25	289	19:12
2024	May	15	(Wed)	05:11	05:59	71	12:12	79N	18:25	289	19:13
2024	May	16	(Thu)	05:11	05:59	71	12:12	78N	18:25	290	19:13
2024	May	17	(Fri)	05:11	05:59	70	12:12	78N	18:25	290	19:13
2024	May	18	(Sat)	05:10	05:59	70	12:12	78N	18:25	290	19:13
2024	May	19	(Sun)	05:10	05:59	70	12:12	78N	18:25	290	19:14
2024	May	20	(Mon)	05:10	05:58	70	12:12	77N	18:26	290	19:14
2024	May	21	(Tue)	05:10	05:58	70	12:12	77N	18:26	291	19:14
2024	May	22	(Wed)	05:10	05:58	69	12:12	77N	18:26	291	19:14
2024	May	23	(Thu)	05:10	05:58	69	12:12	77N	18:26	291	19:15
2024	May	24	(Fri)	05:10	05:58	69	12:12	77N	18:26	291	19:15
2024	May	25	(Sat)	05:10	05:58	69	12:12	76N	18:26	291	19:15
2024	May	26	(Sun)	05:10	05:58	69	12:12	76N	18:27	292	19:15
2024	May	27	(Mon)	05:10	05:58	68	12:13	76N	18:27	292	19:16
2024	May	28	(Tue)	05:10	05:58	68	12:13	76N	18:27	292	19:16
2024	May	29	(Wed)	05:10	05:58	68	12:13	76N	18:27	292	19:16
2024	May	30	(Thu)	05:10	05:58	68	12:13	76N	18:28	292	19:16
2024	May	31	(Fri)	05:10	05:59	68	12:13	76N	18:28	292	19:17
2024	Jun	01	(Sat)	05:10	05:59	68	12:13	75N	18:28	292	19:17
2024	Jun	02	(Sun)	05:10	05:59	68	12:13	75N	18:28	293	19:17
2024	Jun	03	(Mon)	05:10	05:59	67	12:14	75N	18:29	293	19:18
2024	Jun	04	(Tue)	05:10	05:59	67	12:14	75N	18:29	293	19:18
2024	Jun	05	(Wed)	05:10	05:59	67	12:14	75N	18:29	293	19:18
2024	Jun	06	(Thu)	05:10	05:59	67	12:14	75N	18:29	293	19:18
2024	Jun	07	(Fri)	05:10	05:59	67	12:14	75N	18:29	293	19:19
2024	Jun	08	(Sat)	05:10	05:59	67	12:15	75N	18:30	293	19:19
2024	Jun	09	(Sun)	05:10	06:00	67	12:15	75N	18:30	293	19:19
2024	Jun	10	(Mon)	05:10	06:00	67	12:15	74N	18:30	293	19:20
2024	Jun	11	(Tue)	05:10	06:00	67	12:15	74N	18:30	293	19:20
2024	Jun	12	(Wed)	05:11	06:00	67	12:15	74N	18:31	293	19:20
2024	Jun	13	(Thu)	05:11	06:00	66	12:16	74N	18:31	294	19:20
2024	Jun	14	(Fri)	05:11	06:00	66	12:16	74N	18:31	294	19:21
2024	Jun	15	(Sat)	05:11	06:01	66	12:16	74N	18:31	294	19:21
2024	Jun	16	(Sun)	05:11	06:01	66	12:16	74N	18:32	294	19:21
2024	Jun	17	(Mon)	05:11	06:01	66	12:16	74N	18:32	294	19:21
2024	Jun	18	(Tue)	05:12	06:01	66	12:17	74N	18:32	294	19:22
2024	Jun	19	(Wed)	05:12	06:01	66	12:17	74N	18:32	294	19:22
2024	Jun	20	(Thu)	05:12	06:02	66	12:17	74N	18:33	294	19:22
2024	Jun	21	(Fri)	05:12	06:02	66	12:17	74N	18:33	294	19:22
2024	Jun	22	(Sat)	05:12	06:02	66	12:17	74N	18:33	294	19:23
2024	Jun	23	(Sun)	05:13	06:02	66	12:18	74N	18:33	294	19:23
2024	Jun	24	(Mon)	05:13	06:02	66	12:18	74N	18:33	294	19:23
2024	Jun	25	(Tue)	05:13	06:03	66	12:18	74N	18:34	294	19:23
2024	Jun	26	(Wed)	05:13	06:03	66	12:18	74N	18:34	294	19:23
2024	Jun	27	(Thu)	05:14	06:03	66	12:19	74N	18:34	294	19:23
2024	Jun	28	(Fri)	05:14	06:03	66	12:19	74N	18:34	294	19:24
2024	Jun	29	(Sat)	05:14	06:04	67	12:19	74N	18:34	293	19:24
2024	Jun	30	(Sun)	05:14	06:04	67	12:19	74N	18:34	293	19:24
2024	Jul	01	(Mon)	05:15	06:04	67	12:19	74N	18:35	293	19:24
2024	Jul	02	(Tue)	05:15	06:04	67	12:20	74N	18:35	293	19:24
2024	Jul	03	(Wed)	05:15	06:05	67	12:20	75N	18:35	293	19:24
2024	Jul	04	(Thu)	05:15	06:05	67	12:20	75N	18:35	293	19:24
2024	Jul	05	(Fri)	05:16	06:05	67	12:20	75N	18:35	293	19:24
2024	Jul	06	(Sat)	05:16	06:05	67	12:20	75N	18:35	293	19:24
2024	Jul	07	(Sun)	05:16	06:05	67	12:20	75N	18:35	293	19:24

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

2024	Sep	13	(Fri)	05:21	06:06	86	12:11	88S	18:16	274	19:01
2024	Sep	14	(Sat)	05:21	06:06	87	12:11	87S	18:16	273	19:01
2024	Sep	15	(Sun)	05:21	06:06	87	12:11	87S	18:15	273	19:00
2024	Sep	16	(Mon)	05:21	06:06	87	12:10	86S	18:15	272	19:00
2024	Sep	17	(Tue)	05:20	06:06	88	12:10	86S	18:14	272	18:59
2024	Sep	18	(Wed)	05:20	06:05	88	12:09	86S	18:13	272	18:58
2024	Sep	19	(Thu)	05:20	06:05	89	12:09	85S	18:13	271	18:58
2024	Sep	20	(Fri)	05:20	06:05	89	12:09	85S	18:12	271	18:57
2024	Sep	21	(Sat)	05:20	06:05	89	12:08	84S	18:12	271	18:57
2024	Sep	22	(Sun)	05:20	06:05	90	12:08	84S	18:11	270	18:56
2024	Sep	23	(Mon)	05:20	06:05	90	12:08	84S	18:11	270	18:56
2024	Sep	24	(Tue)	05:19	06:04	90	12:07	83S	18:10	269	18:55
2024	Sep	25	(Wed)	05:19	06:04	91	12:07	83S	18:10	269	18:55
2024	Sep	26	(Thu)	05:19	06:04	91	12:07	82S	18:09	269	18:54
2024	Sep	27	(Fri)	05:19	06:04	92	12:06	82S	18:09	268	18:54
2024	Sep	28	(Sat)	05:19	06:04	92	12:06	82S	18:08	268	18:53
2024	Sep	29	(Sun)	05:19	06:04	92	12:06	81S	18:08	267	18:53
2024	Sep	30	(Mon)	05:18	06:03	93	12:05	81S	18:07	267	18:52
2024	Oct	01	(Tue)	05:18	06:03	93	12:05	81S	18:07	267	18:52
2024	Oct	02	(Wed)	05:18	06:03	94	12:05	80S	18:06	266	18:51
2024	Oct	03	(Thu)	05:18	06:03	94	12:04	80S	18:06	266	18:51
2024	Oct	04	(Fri)	05:18	06:03	94	12:04	79S	18:05	265	18:50
2024	Oct	05	(Sat)	05:18	06:03	95	12:04	79S	18:05	265	18:50
2024	Oct	06	(Sun)	05:18	06:03	95	12:03	79S	18:04	265	18:49
2024	Oct	07	(Mon)	05:17	06:03	96	12:03	78S	18:04	264	18:49
2024	Oct	08	(Tue)	05:17	06:02	96	12:03	78S	18:03	264	18:48
2024	Oct	09	(Wed)	05:17	06:02	96	12:03	77S	18:03	264	18:48
2024	Oct	10	(Thu)	05:17	06:02	97	12:02	77S	18:02	263	18:48
2024	Oct	11	(Fri)	05:17	06:02	97	12:02	77S	18:02	263	18:47
2024	Oct	12	(Sat)	05:17	06:02	97	12:02	76S	18:01	262	18:47
2024	Oct	13	(Sun)	05:17	06:02	98	12:02	76S	18:01	262	18:46
2024	Oct	14	(Mon)	05:17	06:02	98	12:01	76S	18:01	262	18:46
2024	Oct	15	(Tue)	05:17	06:02	99	12:01	75S	18:00	261	18:46
2024	Oct	16	(Wed)	05:16	06:02	99	12:01	75S	18:00	261	18:45
2024	Oct	17	(Thu)	05:16	06:02	99	12:01	74S	17:59	261	18:45
2024	Oct	18	(Fri)	05:16	06:02	100	12:01	74S	17:59	260	18:45
2024	Oct	19	(Sat)	05:16	06:02	100	12:00	74S	17:59	260	18:44
2024	Oct	20	(Sun)	05:16	06:02	100	12:00	73S	17:58	259	18:44
2024	Oct	21	(Mon)	05:16	06:02	101	12:00	73S	17:58	259	18:44
2024	Oct	22	(Tue)	05:16	06:02	101	12:00	73S	17:58	259	18:44
2024	Oct	23	(Wed)	05:16	06:02	101	12:00	72S	17:57	258	18:43
2024	Oct	24	(Thu)	05:16	06:02	102	12:00	72S	17:57	258	18:43
2024	Oct	25	(Fri)	05:16	06:02	102	11:59	72S	17:57	258	18:43
2024	Oct	26	(Sat)	05:16	06:02	103	11:59	71S	17:57	257	18:43
2024	Oct	27	(Sun)	05:16	06:02	103	11:59	71S	17:56	257	18:42
2024	Oct	28	(Mon)	05:16	06:02	103	11:59	71S	17:56	257	18:42
2024	Oct	29	(Tue)	05:16	06:02	104	11:59	70S	17:56	256	18:42
2024	Oct	30	(Wed)	05:16	06:02	104	11:59	70S	17:56	256	18:42
2024	Oct	31	(Thu)	05:16	06:02	104	11:59	70S	17:55	256	18:42
2024	Nov	01	(Fri)	05:16	06:03	105	11:59	69S	17:55	255	18:42
2024	Nov	02	(Sat)	05:16	06:03	105	11:59	69S	17:55	255	18:42
2024	Nov	03	(Sun)	05:16	06:03	105	11:59	69S	17:55	255	18:41
2024	Nov	04	(Mon)	05:16	06:03	105	11:59	68S	17:55	254	18:41
2024	Nov	05	(Tue)	05:17	06:03	106	11:59	68S	17:55	254	18:41
2024	Nov	06	(Wed)	05:17	06:03	106	11:59	68S	17:55	254	18:41
2024	Nov	07	(Thu)	05:17	06:04	106	11:59	68S	17:55	253	18:41
2024	Nov	08	(Fri)	05:17	06:04	107	11:59	67S	17:54	253	18:41
2024	Nov	09	(Sat)	05:17	06:04	107	11:59	67S	17:54	253	18:41
2024	Nov	10	(Sun)	05:17	06:04	107	11:59	67S	17:54	253	18:41
2024	Nov	11	(Mon)	05:17	06:04	108	11:59	66S	17:54	252	18:41
2024	Nov	12	(Tue)	05:18	06:05	108	12:00	66S	17:54	252	18:41
2024	Nov	13	(Wed)	05:18	06:05	108	12:00	66S	17:54	252	18:42
2024	Nov	14	(Thu)	05:18	06:05	108	12:00	66S	17:54	252	18:42
2024	Nov	15	(Fri)	05:18	06:06	109	12:00	65S	17:54	251	18:42
2024	Nov	16	(Sat)	05:19	06:06	109	12:00	65S	17:54	251	18:42
2024	Nov	17	(Sun)	05:19	06:06	109	12:00	65S	17:55	251	18:42
2024	Nov	18	(Mon)	05:19	06:07	109	12:01	65S	17:55	251	18:42

2024	Nov	19	(Tue)	05:19	06:07	110	12:01	64S	17:55	250	18:42
2024	Nov	20	(Wed)	05:20	06:07	110	12:01	64S	17:55	250	18:43
2024	Nov	21	(Thu)	05:20	06:08	110	12:01	64S	17:55	250	18:43
2024	Nov	22	(Fri)	05:20	06:08	110	12:02	64S	17:55	250	18:43
2024	Nov	23	(Sat)	05:20	06:08	110	12:02	63S	17:55	249	18:43
2024	Nov	24	(Sun)	05:21	06:09	111	12:02	63S	17:55	249	18:43
2024	Nov	25	(Mon)	05:21	06:09	111	12:02	63S	17:56	249	18:44
2024	Nov	26	(Tue)	05:21	06:10	111	12:03	63S	17:56	249	18:44
2024	Nov	27	(Wed)	05:22	06:10	111	12:03	63S	17:56	249	18:44
2024	Nov	28	(Thu)	05:22	06:10	111	12:03	63S	17:56	249	18:45
2024	Nov	29	(Fri)	05:23	06:11	112	12:04	62S	17:57	248	18:45
2024	Nov	30	(Sat)	05:23	06:11	112	12:04	62S	17:57	248	18:45
2024	Dec	01	(Sun)	05:23	06:12	112	12:04	62S	17:57	248	18:46
2024	Dec	02	(Mon)	05:24	06:12	112	12:05	62S	17:58	248	18:46
2024	Dec	03	(Tue)	05:24	06:13	112	12:05	62S	17:58	248	18:46
2024	Dec	04	(Wed)	05:25	06:13	112	12:06	62S	17:58	248	18:47
2024	Dec	05	(Thu)	05:25	06:14	112	12:06	61S	17:59	247	18:47
2024	Dec	06	(Fri)	05:26	06:14	113	12:07	61S	17:59	247	18:47
2024	Dec	07	(Sat)	05:26	06:15	113	12:07	61S	17:59	247	18:48
2024	Dec	08	(Sun)	05:26	06:15	113	12:07	61S	18:00	247	18:48
2024	Dec	09	(Mon)	05:27	06:16	113	12:08	61S	18:00	247	18:49
2024	Dec	10	(Tue)	05:27	06:16	113	12:08	61S	18:00	247	18:49
2024	Dec	11	(Wed)	05:28	06:17	113	12:09	61S	18:01	247	18:50
2024	Dec	12	(Thu)	05:28	06:17	113	12:09	61S	18:01	247	18:50
2024	Dec	13	(Fri)	05:29	06:18	113	12:10	61S	18:02	247	18:51
2024	Dec	14	(Sat)	05:29	06:18	113	12:10	61S	18:02	247	18:51
2024	Dec	15	(Sun)	05:30	06:19	113	12:11	61S	18:03	247	18:51
2024	Dec	16	(Mon)	05:30	06:19	113	12:11	61S	18:03	247	18:52
2024	Dec	17	(Tue)	05:31	06:20	113	12:12	61S	18:04	247	18:52
2024	Dec	18	(Wed)	05:31	06:20	113	12:12	61S	18:04	247	18:53
2024	Dec	19	(Thu)	05:32	06:21	113	12:13	61S	18:05	247	18:53
2024	Dec	20	(Fri)	05:32	06:21	113	12:13	60S	18:05	246	18:54
2024	Dec	21	(Sat)	05:33	06:22	114	12:14	60S	18:06	246	18:54
2024	Dec	22	(Sun)	05:33	06:22	114	12:14	60S	18:06	246	18:55
2024	Dec	23	(Mon)	05:34	06:23	113	12:15	60S	18:07	247	18:55
2024	Dec	24	(Tue)	05:34	06:23	113	12:15	61S	18:07	247	18:56
2024	Dec	25	(Wed)	05:35	06:24	113	12:16	61S	18:08	247	18:56
2024	Dec	26	(Thu)	05:35	06:24	113	12:16	61S	18:08	247	18:57
2024	Dec	27	(Fri)	05:36	06:25	113	12:17	61S	18:09	247	18:57
2024	Dec	28	(Sat)	05:36	06:25	113	12:17	61S	18:09	247	18:58
2024	Dec	29	(Sun)	05:37	06:25	113	12:18	61S	18:10	247	18:58
2024	Dec	30	(Mon)	05:37	06:26	113	12:18	61S	18:10	247	18:59
2024	Dec	31	(Tue)	05:38	06:26	113	12:18	61S	18:11	247	18:59

Sun

VTDT

Location: E101°09'00.0", N 6°47'00.0", 8m
(Longitude referred to Greenwich meridian)

Time Zone: 7h 00m east of Greenwich

Date (Zone)	Begin Civil Twilight h m	Rise h m °	Az. °	Transit h m °	Alt. °	Set h m °	Az. °	End Civil Twilight h m			
2024	Jan	01	(Mon)	06:04	06:26	113	12:19	61S	18:11	247	18:33
2024	Jan	02	(Tue)	06:04	06:27	113	12:19	61S	18:11	247	18:34
2024	Jan	03	(Wed)	06:05	06:27	113	12:20	61S	18:12	247	18:34
2024	Jan	04	(Thu)	06:05	06:28	113	12:20	61S	18:12	247	18:35
2024	Jan	05	(Fri)	06:06	06:28	113	12:20	61S	18:13	247	18:35
2024	Jan	06	(Sat)	06:06	06:28	113	12:21	61S	18:13	247	18:36
2024	Jan	07	(Sun)	06:06	06:29	113	12:21	61S	18:14	248	18:36
2024	Jan	08	(Mon)	06:07	06:29	112	12:22	62S	18:14	248	18:37
2024	Jan	09	(Tue)	06:07	06:30	112	12:22	62S	18:15	248	18:37
2024	Jan	10	(Wed)	06:08	06:30	112	12:23	62S	18:15	248	18:38
2024	Jan	11	(Thu)	06:08	06:30	112	12:23	62S	18:16	248	18:38

2024	Jan	12	(Fri)	06:08	06:31	112	12:23	62S	18:16	248	18:39
2024	Jan	13	(Sat)	06:09	06:31	112	12:24	62S	18:17	248	18:39
2024	Jan	14	(Sun)	06:09	06:31	111	12:24	63S	18:17	249	18:40
2024	Jan	15	(Mon)	06:09	06:31	111	12:25	63S	18:18	249	18:40
2024	Jan	16	(Tue)	06:09	06:32	111	12:25	63S	18:18	249	18:40
2024	Jan	17	(Wed)	06:10	06:32	111	12:25	63S	18:19	249	18:41
2024	Jan	18	(Thu)	06:10	06:32	111	12:26	63S	18:19	249	18:41
2024	Jan	19	(Fri)	06:10	06:32	111	12:26	63S	18:19	250	18:42
2024	Jan	20	(Sat)	06:10	06:33	110	12:26	64S	18:20	250	18:42
2024	Jan	21	(Sun)	06:11	06:33	110	12:26	64S	18:20	250	18:42
2024	Jan	22	(Mon)	06:11	06:33	110	12:27	64S	18:21	250	18:43
2024	Jan	23	(Tue)	06:11	06:33	110	12:27	64S	18:21	250	18:43
2024	Jan	24	(Wed)	06:11	06:33	109	12:27	65S	18:21	251	18:43
2024	Jan	25	(Thu)	06:11	06:33	109	12:28	65S	18:22	251	18:44
2024	Jan	26	(Fri)	06:12	06:33	109	12:28	65S	18:22	251	18:44
2024	Jan	27	(Sat)	06:12	06:34	109	12:28	65S	18:22	251	18:44
2024	Jan	28	(Sun)	06:12	06:34	108	12:28	66S	18:23	252	18:45
2024	Jan	29	(Mon)	06:12	06:34	108	12:28	66S	18:23	252	18:45
2024	Jan	30	(Tue)	06:12	06:34	108	12:29	66S	18:23	252	18:45
2024	Jan	31	(Wed)	06:12	06:34	108	12:29	66S	18:24	253	18:45
2024	Feb	01	(Thu)	06:12	06:34	107	12:29	67S	18:24	253	18:46
2024	Feb	02	(Fri)	06:12	06:34	107	12:29	67S	18:24	253	18:46
2024	Feb	03	(Sat)	06:12	06:34	107	12:29	67S	18:25	253	18:46
2024	Feb	04	(Sun)	06:12	06:34	106	12:29	68S	18:25	254	18:46
2024	Feb	05	(Mon)	06:12	06:34	106	12:29	68S	18:25	254	18:47
2024	Feb	06	(Tue)	06:12	06:34	106	12:29	68S	18:25	254	18:47
2024	Feb	07	(Wed)	06:12	06:34	106	12:29	68S	18:25	255	18:47
2024	Feb	08	(Thu)	06:12	06:33	105	12:30	69S	18:26	255	18:47
2024	Feb	09	(Fri)	06:12	06:33	105	12:30	69S	18:26	255	18:47
2024	Feb	10	(Sat)	06:12	06:33	105	12:30	69S	18:26	256	18:47
2024	Feb	11	(Sun)	06:12	06:33	104	12:30	70S	18:26	256	18:48
2024	Feb	12	(Mon)	06:12	06:33	104	12:30	70S	18:26	256	18:48
2024	Feb	13	(Tue)	06:11	06:33	104	12:30	70S	18:27	257	18:48
2024	Feb	14	(Wed)	06:11	06:33	103	12:30	71S	18:27	257	18:48
2024	Feb	15	(Thu)	06:11	06:32	103	12:30	71S	18:27	257	18:48
2024	Feb	16	(Fri)	06:11	06:32	103	12:29	71S	18:27	258	18:48
2024	Feb	17	(Sat)	06:11	06:32	102	12:29	72S	18:27	258	18:48
2024	Feb	18	(Sun)	06:10	06:32	102	12:29	72S	18:27	258	18:48
2024	Feb	19	(Mon)	06:10	06:31	102	12:29	72S	18:27	259	18:48
2024	Feb	20	(Tue)	06:10	06:31	101	12:29	73S	18:27	259	18:48
2024	Feb	21	(Wed)	06:10	06:31	101	12:29	73S	18:27	259	18:48
2024	Feb	22	(Thu)	06:09	06:31	100	12:29	74S	18:27	260	18:49
2024	Feb	23	(Fri)	06:09	06:30	100	12:29	74S	18:27	260	18:49
2024	Feb	24	(Sat)	06:09	06:30	100	12:29	74S	18:27	260	18:49
2024	Feb	25	(Sun)	06:09	06:30	99	12:29	75S	18:27	261	18:49
2024	Feb	26	(Mon)	06:08	06:29	99	12:28	75S	18:28	261	18:49
2024	Feb	27	(Tue)	06:08	06:29	99	12:28	75S	18:28	262	18:49
2024	Feb	28	(Wed)	06:08	06:29	98	12:28	76S	18:28	262	18:49
2024	Feb	29	(Thu)	06:07	06:28	98	12:28	76S	18:28	262	18:48
2024	Mar	01	(Fri)	06:07	06:28	97	12:28	77S	18:27	263	18:48
2024	Mar	02	(Sat)	06:07	06:28	97	12:27	77S	18:27	263	18:48
2024	Mar	03	(Sun)	06:06	06:27	97	12:27	77S	18:27	264	18:48
2024	Mar	04	(Mon)	06:06	06:27	96	12:27	78S	18:27	264	18:48
2024	Mar	05	(Tue)	06:05	06:26	96	12:27	78S	18:27	264	18:48
2024	Mar	06	(Wed)	06:05	06:26	96	12:27	78S	18:27	265	18:48
2024	Mar	07	(Thu)	06:05	06:26	95	12:26	79S	18:27	265	18:48
2024	Mar	08	(Fri)	06:04	06:25	95	12:26	79S	18:27	265	18:48
2024	Mar	09	(Sat)	06:04	06:25	94	12:26	80S	18:27	266	18:48
2024	Mar	10	(Sun)	06:03	06:24	94	12:26	80S	18:27	266	18:48
2024	Mar	11	(Mon)	06:03	06:24	94	12:25	80S	18:27	267	18:48
2024	Mar	12	(Tue)	06:02	06:23	93	12:25	81S	18:27	267	18:48
2024	Mar	13	(Wed)	06:02	06:23	93	12:25	81S	18:27	267	18:48
2024	Mar	14	(Thu)	06:02	06:22	92	12:25	82S	18:27	268	18:48
2024	Mar	15	(Fri)	06:01	06:22	92	12:24	82S	18:27	268	18:47
2024	Mar	16	(Sat)	06:01	06:21	92	12:24	82S	18:27	269	18:47
2024	Mar	17	(Sun)	06:00	06:21	91	12:24	83S	18:26	269	18:47
2024	Mar	18	(Mon)	06:00	06:21	91	12:23	83S	18:26	269	18:47

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

2024	May	25	(Sat)	05:36	05:58	69	12:12	76N	18:26	291	18:49
2024	May	26	(Sun)	05:36	05:58	69	12:12	76N	18:27	292	18:49
2024	May	27	(Mon)	05:36	05:58	68	12:13	76N	18:27	292	18:49
2024	May	28	(Tue)	05:36	05:58	68	12:13	76N	18:27	292	18:50
2024	May	29	(Wed)	05:36	05:58	68	12:13	76N	18:27	292	18:50
2024	May	30	(Thu)	05:36	05:58	68	12:13	76N	18:28	292	18:50
2024	May	31	(Fri)	05:36	05:59	68	12:13	76N	18:28	292	18:50
2024	Jun	01	(Sat)	05:36	05:59	68	12:13	75N	18:28	292	18:51
2024	Jun	02	(Sun)	05:36	05:59	68	12:13	75N	18:28	293	18:51
2024	Jun	03	(Mon)	05:36	05:59	67	12:14	75N	18:29	293	18:51
2024	Jun	04	(Tue)	05:36	05:59	67	12:14	75N	18:29	293	18:51
2024	Jun	05	(Wed)	05:36	05:59	67	12:14	75N	18:29	293	18:52
2024	Jun	06	(Thu)	05:36	05:59	67	12:14	75N	18:29	293	18:52
2024	Jun	07	(Fri)	05:37	05:59	67	12:14	75N	18:29	293	18:52
2024	Jun	08	(Sat)	05:37	05:59	67	12:15	75N	18:30	293	18:52
2024	Jun	09	(Sun)	05:37	06:00	67	12:15	75N	18:30	293	18:53
2024	Jun	10	(Mon)	05:37	06:00	67	12:15	74N	18:30	293	18:53
2024	Jun	11	(Tue)	05:37	06:00	67	12:15	74N	18:30	293	18:53
2024	Jun	12	(Wed)	05:37	06:00	67	12:15	74N	18:31	293	18:53
2024	Jun	13	(Thu)	05:37	06:00	66	12:16	74N	18:31	294	18:54
2024	Jun	14	(Fri)	05:38	06:00	66	12:16	74N	18:31	294	18:54
2024	Jun	15	(Sat)	05:38	06:01	66	12:16	74N	18:31	294	18:54
2024	Jun	16	(Sun)	05:38	06:01	66	12:16	74N	18:32	294	18:54
2024	Jun	17	(Mon)	05:38	06:01	66	12:16	74N	18:32	294	18:55
2024	Jun	18	(Tue)	05:38	06:01	66	12:17	74N	18:32	294	18:55
2024	Jun	19	(Wed)	05:39	06:01	66	12:17	74N	18:32	294	18:55
2024	Jun	20	(Thu)	05:39	06:02	66	12:17	74N	18:33	294	18:55
2024	Jun	21	(Fri)	05:39	06:02	66	12:17	74N	18:33	294	18:56
2024	Jun	22	(Sat)	05:39	06:02	66	12:17	74N	18:33	294	18:56
2024	Jun	23	(Sun)	05:39	06:02	66	12:18	74N	18:33	294	18:56
2024	Jun	24	(Mon)	05:40	06:02	66	12:18	74N	18:33	294	18:56
2024	Jun	25	(Tue)	05:40	06:03	66	12:18	74N	18:34	294	18:56
2024	Jun	26	(Wed)	05:40	06:03	66	12:18	74N	18:34	294	18:57
2024	Jun	27	(Thu)	05:40	06:03	66	12:19	74N	18:34	294	18:57
2024	Jun	28	(Fri)	05:41	06:03	66	12:19	74N	18:34	294	18:57
2024	Jun	29	(Sat)	05:41	06:04	67	12:19	74N	18:34	293	18:57
2024	Jun	30	(Sun)	05:41	06:04	67	12:19	74N	18:34	293	18:57
2024	Jul	01	(Mon)	05:41	06:04	67	12:19	74N	18:35	293	18:57
2024	Jul	02	(Tue)	05:42	06:04	67	12:20	74N	18:35	293	18:58
2024	Jul	03	(Wed)	05:42	06:05	67	12:20	75N	18:35	293	18:58
2024	Jul	04	(Thu)	05:42	06:05	67	12:20	75N	18:35	293	18:58
2024	Jul	05	(Fri)	05:42	06:05	67	12:20	75N	18:35	293	18:58
2024	Jul	06	(Sat)	05:43	06:05	67	12:20	75N	18:35	293	18:58
2024	Jul	07	(Sun)	05:43	06:05	67	12:20	75N	18:35	293	18:58
2024	Jul	08	(Mon)	05:43	06:06	67	12:21	75N	18:35	293	18:58
2024	Jul	09	(Tue)	05:43	06:06	67	12:21	75N	18:36	293	18:58
2024	Jul	10	(Wed)	05:43	06:06	68	12:21	75N	18:36	292	18:58
2024	Jul	11	(Thu)	05:44	06:06	68	12:21	75N	18:36	292	18:58
2024	Jul	12	(Fri)	05:44	06:07	68	12:21	76N	18:36	292	18:58
2024	Jul	13	(Sat)	05:44	06:07	68	12:21	76N	18:36	292	18:58
2024	Jul	14	(Sun)	05:44	06:07	68	12:21	76N	18:36	292	18:58
2024	Jul	15	(Mon)	05:45	06:07	68	12:21	76N	18:36	292	18:58
2024	Jul	16	(Tue)	05:45	06:07	68	12:22	76N	18:36	291	18:58
2024	Jul	17	(Wed)	05:45	06:07	69	12:22	76N	18:36	291	18:58
2024	Jul	18	(Thu)	05:45	06:08	69	12:22	77N	18:36	291	18:58
2024	Jul	19	(Fri)	05:45	06:08	69	12:22	77N	18:36	291	18:58
2024	Jul	20	(Sat)	05:46	06:08	69	12:22	77N	18:36	291	18:58
2024	Jul	21	(Sun)	05:46	06:08	69	12:22	77N	18:36	291	18:58
2024	Jul	22	(Mon)	05:46	06:08	70	12:22	77N	18:35	290	18:58
2024	Jul	23	(Tue)	05:46	06:08	70	12:22	78N	18:35	290	18:58
2024	Jul	24	(Wed)	05:46	06:09	70	12:22	78N	18:35	290	18:57
2024	Jul	25	(Thu)	05:47	06:09	70	12:22	78N	18:35	290	18:57
2024	Jul	26	(Fri)	05:47	06:09	70	12:22	78N	18:35	290	18:57
2024	Jul	27	(Sat)	05:47	06:09	71	12:22	78N	18:35	289	18:57
2024	Jul	28	(Sun)	05:47	06:09	71	12:22	79N	18:35	289	18:57
2024	Jul	29	(Mon)	05:47	06:09	71	12:22	79N	18:35	289	18:57
2024	Jul	30	(Tue)	05:47	06:09	71	12:22	79N	18:34	289	18:56

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

2024	Oct	06	(Sun)	05:42	06:03	95	12:03	79S	18:04	265	18:25
2024	Oct	07	(Mon)	05:42	06:03	96	12:03	78S	18:04	264	18:25
2024	Oct	08	(Tue)	05:42	06:02	96	12:03	78S	18:03	264	18:24
2024	Oct	09	(Wed)	05:41	06:02	96	12:03	77S	18:03	264	18:24
2024	Oct	10	(Thu)	05:41	06:02	97	12:02	77S	18:02	263	18:23
2024	Oct	11	(Fri)	05:41	06:02	97	12:02	77S	18:02	263	18:23
2024	Oct	12	(Sat)	05:41	06:02	97	12:02	76S	18:01	262	18:22
2024	Oct	13	(Sun)	05:41	06:02	98	12:02	76S	18:01	262	18:22
2024	Oct	14	(Mon)	05:41	06:02	98	12:01	76S	18:01	262	18:22
2024	Oct	15	(Tue)	05:41	06:02	99	12:01	75S	18:00	261	18:21
2024	Oct	16	(Wed)	05:41	06:02	99	12:01	75S	18:00	261	18:21
2024	Oct	17	(Thu)	05:41	06:02	99	12:01	74S	17:59	261	18:21
2024	Oct	18	(Fri)	05:41	06:02	100	12:01	74S	17:59	260	18:20
2024	Oct	19	(Sat)	05:41	06:02	100	12:00	74S	17:59	260	18:20
2024	Oct	20	(Sun)	05:41	06:02	100	12:00	73S	17:58	259	18:20
2024	Oct	21	(Mon)	05:41	06:02	101	12:00	73S	17:58	259	18:19
2024	Oct	22	(Tue)	05:41	06:02	101	12:00	73S	17:58	259	18:19
2024	Oct	23	(Wed)	05:41	06:02	101	12:00	72S	17:57	258	18:19
2024	Oct	24	(Thu)	05:41	06:02	102	12:00	72S	17:57	258	18:18
2024	Oct	25	(Fri)	05:41	06:02	102	11:59	72S	17:57	258	18:18
2024	Oct	26	(Sat)	05:41	06:02	103	11:59	71S	17:57	257	18:18
2024	Oct	27	(Sun)	05:41	06:02	103	11:59	71S	17:56	257	18:18
2024	Oct	28	(Mon)	05:41	06:02	103	11:59	71S	17:56	257	18:17
2024	Oct	29	(Tue)	05:41	06:02	104	11:59	70S	17:56	256	18:17
2024	Oct	30	(Wed)	05:41	06:02	104	11:59	70S	17:56	256	18:17
2024	Oct	31	(Thu)	05:41	06:02	104	11:59	70S	17:55	256	18:17
2024	Nov	01	(Fri)	05:41	06:03	105	11:59	69S	17:55	255	18:17
2024	Nov	02	(Sat)	05:41	06:03	105	11:59	69S	17:55	255	18:17
2024	Nov	03	(Sun)	05:41	06:03	105	11:59	69S	17:55	255	18:17
2024	Nov	04	(Mon)	05:41	06:03	105	11:59	68S	17:55	254	18:16
2024	Nov	05	(Tue)	05:42	06:03	106	11:59	68S	17:55	254	18:16
2024	Nov	06	(Wed)	05:42	06:03	106	11:59	68S	17:55	254	18:16
2024	Nov	07	(Thu)	05:42	06:04	106	11:59	68S	17:55	253	18:16
2024	Nov	08	(Fri)	05:42	06:04	107	11:59	67S	17:54	253	18:16
2024	Nov	09	(Sat)	05:42	06:04	107	11:59	67S	17:54	253	18:16
2024	Nov	10	(Sun)	05:42	06:04	107	11:59	67S	17:54	253	18:16
2024	Nov	11	(Mon)	05:43	06:04	108	11:59	66S	17:54	252	18:16
2024	Nov	12	(Tue)	05:43	06:05	108	12:00	66S	17:54	252	18:16
2024	Nov	13	(Wed)	05:43	06:05	108	12:00	66S	17:54	252	18:16
2024	Nov	14	(Thu)	05:43	06:05	108	12:00	66S	17:54	252	18:16
2024	Nov	15	(Fri)	05:44	06:06	109	12:00	65S	17:54	251	18:16
2024	Nov	16	(Sat)	05:44	06:06	109	12:00	65S	17:54	251	18:16
2024	Nov	17	(Sun)	05:44	06:06	109	12:00	65S	17:55	251	18:17
2024	Nov	18	(Mon)	05:45	06:07	109	12:01	65S	17:55	251	18:17
2024	Nov	19	(Tue)	05:45	06:07	110	12:01	64S	17:55	250	18:17
2024	Nov	20	(Wed)	05:45	06:07	110	12:01	64S	17:55	250	18:17
2024	Nov	21	(Thu)	05:45	06:08	110	12:01	64S	17:55	250	18:17
2024	Nov	22	(Fri)	05:46	06:08	110	12:02	64S	17:55	250	18:17
2024	Nov	23	(Sat)	05:46	06:08	110	12:02	63S	17:55	249	18:17
2024	Nov	24	(Sun)	05:47	06:09	111	12:02	63S	17:55	249	18:18
2024	Nov	25	(Mon)	05:47	06:09	111	12:02	63S	17:56	249	18:18
2024	Nov	26	(Tue)	05:47	06:10	111	12:03	63S	17:56	249	18:18
2024	Nov	27	(Wed)	05:48	06:10	111	12:03	63S	17:56	249	18:18
2024	Nov	28	(Thu)	05:48	06:10	111	12:03	63S	17:56	249	18:19
2024	Nov	29	(Fri)	05:48	06:11	112	12:04	62S	17:57	248	18:19
2024	Nov	30	(Sat)	05:49	06:11	112	12:04	62S	17:57	248	18:19
2024	Dec	01	(Sun)	05:49	06:12	112	12:04	62S	17:57	248	18:20
2024	Dec	02	(Mon)	05:50	06:12	112	12:05	62S	17:58	248	18:20
2024	Dec	03	(Tue)	05:50	06:13	112	12:05	62S	17:58	248	18:20
2024	Dec	04	(Wed)	05:51	06:13	112	12:06	62S	17:58	248	18:21
2024	Dec	05	(Thu)	05:51	06:14	112	12:06	61S	17:59	247	18:21
2024	Dec	06	(Fri)	05:52	06:14	113	12:07	61S	17:59	247	18:21
2024	Dec	07	(Sat)	05:52	06:15	113	12:07	61S	17:59	247	18:22
2024	Dec	08	(Sun)	05:53	06:15	113	12:07	61S	18:00	247	18:22
2024	Dec	09	(Mon)	05:53	06:16	113	12:08	61S	18:00	247	18:23
2024	Dec	10	(Tue)	05:53	06:16	113	12:08	61S	18:00	247	18:23
2024	Dec	11	(Wed)	05:54	06:17	113	12:09	61S	18:01	247	18:23

2024	Dec 12	(Thu)	05:54	06:17	113	12:09	61S	18:01	247	18:24
2024	Dec 13	(Fri)	05:55	06:18	113	12:10	61S	18:02	247	18:24
2024	Dec 14	(Sat)	05:55	06:18	113	12:10	61S	18:02	247	18:25
2024	Dec 15	(Sun)	05:56	06:19	113	12:11	61S	18:03	247	18:25
2024	Dec 16	(Mon)	05:56	06:19	113	12:11	61S	18:03	247	18:26
2024	Dec 17	(Tue)	05:57	06:20	113	12:12	61S	18:04	247	18:26
2024	Dec 18	(Wed)	05:57	06:20	113	12:12	61S	18:04	247	18:27
2024	Dec 19	(Thu)	05:58	06:21	113	12:13	61S	18:05	247	18:27
2024	Dec 20	(Fri)	05:58	06:21	113	12:13	60S	18:05	246	18:28
2024	Dec 21	(Sat)	05:59	06:22	114	12:14	60S	18:06	246	18:28
2024	Dec 22	(Sun)	05:59	06:22	114	12:14	60S	18:06	246	18:29
2024	Dec 23	(Mon)	06:00	06:23	113	12:15	60S	18:07	247	18:29
2024	Dec 24	(Tue)	06:00	06:23	113	12:15	61S	18:07	247	18:30
2024	Dec 25	(Wed)	06:01	06:24	113	12:16	61S	18:08	247	18:30
2024	Dec 26	(Thu)	06:01	06:24	113	12:16	61S	18:08	247	18:31
2024	Dec 27	(Fri)	06:02	06:25	113	12:17	61S	18:09	247	18:31
2024	Dec 28	(Sat)	06:02	06:25	113	12:17	61S	18:09	247	18:32
2024	Dec 29	(Sun)	06:03	06:25	113	12:18	61S	18:10	247	18:32
2024	Dec 30	(Mon)	06:03	06:26	113	12:18	61S	18:10	247	18:33
2024	Dec 31	(Tue)	06:04	06:26	113	12:18	61S	18:11	247	18:33

Moon

VTDT

Location: E101°09'00.0", N 6°47'00.0", 8m
(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)	22:33	81	04:06 84N	10:22	282
2024 Jan 02 (Tue)	23:15	86	04:47 90N	10:59	276
2024 Jan 03 (Wed)	23:57	92	05:26 86S	11:36	271
2024 Jan 04 (Thu)			06:05 80S	12:12	265
2024 Jan 05 (Fri)	00:39	98	06:45 74S	12:50	259
2024 Jan 06 (Sat)	01:25	104	07:28 69S	13:31	254
2024 Jan 07 (Sun)	02:13	109	08:15 64S	14:16	249
2024 Jan 08 (Mon)	03:06	113	09:07 59S	15:07	245
2024 Jan 09 (Tue)	04:04	117	10:04 56S	16:03	242
2024 Jan 10 (Wed)	05:06	118	11:05 55S	17:05	242
2024 Jan 11 (Thu)	06:09	118	12:09 56S	18:10	243
2024 Jan 12 (Fri)	07:11	116	13:12 59S	19:14	246
2024 Jan 13 (Sat)	08:09	111	14:12 64S	20:16	251
2024 Jan 14 (Sun)	09:02	106	15:07 70S	21:13	258
2024 Jan 15 (Mon)	09:51	99	15:58 77S	22:07	265
2024 Jan 16 (Tue)	10:37	92	16:47 84S	22:59	272
2024 Jan 17 (Wed)	11:21	85	17:35 91S	23:50	278
2024 Jan 18 (Thu)	12:06	78	18:23 84N		
2024 Jan 19 (Fri)	12:52	73	19:12 79N	00:42	285
2024 Jan 20 (Sat)	13:40	68	20:04 74N	01:35	290
2024 Jan 21 (Sun)	14:31	64	20:58 71N	02:29	294
2024 Jan 22 (Mon)	15:25	62	21:53 69N	03:25	297
2024 Jan 23 (Tue)	16:20	62	22:48 69N	04:21	298
2024 Jan 24 (Wed)	17:14	63	23:42 71N	05:16	298
2024 Jan 25 (Thu)	18:07	65		06:08	296
2024 Jan 26 (Fri)	18:57	69	00:32 74N	06:55	293
2024 Jan 27 (Sat)	19:44	74	01:19 78N	07:39	289
2024 Jan 28 (Sun)	20:29	79	02:03 82N	08:20	284
2024 Jan 29 (Mon)	21:11	84	02:44 88N	08:58	278
2024 Jan 30 (Tue)	21:53	90	03:23 88S	09:34	273
2024 Jan 31 (Wed)	22:35	96	04:02 82S	10:10	267
2024 Feb 01 (Thu)	23:18	102	04:41 76S	10:47	261
2024 Feb 02 (Fri)			05:22 71S	11:25	256
2024 Feb 03 (Sat)	00:04	107	06:06 66S	12:08	251
2024 Feb 04 (Sun)	00:53	112	06:54 61S	12:54	246

2024 Feb 05 (Mon)	01:48 115	07:47 57S	13:47 243
2024 Feb 06 (Tue)	02:46 118	08:46 55S	14:45 242
2024 Feb 07 (Wed)	03:48 119	09:47 55S	15:47 242
2024 Feb 08 (Thu)	04:50 117	10:51 57S	16:52 244
2024 Feb 09 (Fri)	05:50 114	11:52 61S	17:56 249
2024 Feb 10 (Sat)	06:47 109	12:51 67S	18:56 254
2024 Feb 11 (Sun)	07:39 102	13:46 73S	19:54 261
2024 Feb 12 (Mon)	08:28 95	14:38 81S	20:49 269
2024 Feb 13 (Tue)	09:15 88	15:28 88S	21:42 276
2024 Feb 14 (Wed)	10:01 81	16:17 86N	22:35 283
2024 Feb 15 (Thu)	10:48 74	17:08 80N	23:29 289
2024 Feb 16 (Fri)	11:36 69	18:00 75N	
2024 Feb 17 (Sat)	12:27 65	18:54 71N	00:25 293
2024 Feb 18 (Sun)	13:21 62	19:49 69N	01:21 297
2024 Feb 19 (Mon)	14:15 61	20:44 69N	02:17 298
2024 Feb 20 (Tue)	15:10 62	21:37 70N	03:12 298
2024 Feb 21 (Wed)	16:03 64	22:28 72N	04:04 297
2024 Feb 22 (Thu)	16:53 68	23:16 76N	04:53 294
2024 Feb 23 (Fri)	17:41 72		05:37 290
2024 Feb 24 (Sat)	18:26 77	00:01 81N	06:19 286
2024 Feb 25 (Sun)	19:09 83	00:42 86N	06:57 280
2024 Feb 26 (Mon)	19:51 88	01:22 90S	07:34 275
2024 Feb 27 (Tue)	20:33 94	02:01 84S	08:10 269
2024 Feb 28 (Wed)	21:15 100	02:40 78S	08:46 263
2024 Feb 29 (Thu)	22:00 105	03:20 72S	09:24 257
2024 Mar 01 (Fri)	22:47 110	04:02 67S	10:04 252
2024 Mar 02 (Sat)	23:38 114	04:48 62S	10:48 248
2024 Mar 03 (Sun)		05:38 59S	11:37 244
2024 Mar 04 (Mon)	00:33 117	06:32 56S	12:31 242
2024 Mar 05 (Tue)	01:32 119	07:31 55S	13:30 241
2024 Mar 06 (Wed)	02:32 118	08:32 56S	14:32 243
2024 Mar 07 (Thu)	03:32 116	09:33 59S	15:34 246
2024 Mar 08 (Fri)	04:29 112	10:32 63S	16:36 251
2024 Mar 09 (Sat)	05:23 106	11:28 69S	17:35 257
2024 Mar 10 (Sun)	06:13 99	12:21 77S	18:31 265
2024 Mar 11 (Mon)	07:02 91	13:13 84S	19:26 272
2024 Mar 12 (Tue)	07:49 84	14:04 90N	20:21 280
2024 Mar 13 (Wed)	08:37 77	14:56 83N	21:17 286
2024 Mar 14 (Thu)	09:27 71	15:50 77N	22:14 292
2024 Mar 15 (Fri)	10:19 66	16:45 72N	23:12 296
2024 Mar 16 (Sat)	11:13 63	17:41 70N	
2024 Mar 17 (Sun)	12:09 61	18:38 69N	00:10 298
2024 Mar 18 (Mon)	13:05 62	19:33 69N	01:07 299
2024 Mar 19 (Tue)	13:59 63	20:25 71N	02:01 298
2024 Mar 20 (Wed)	14:50 66	21:14 75N	02:51 295
2024 Mar 21 (Thu)	15:39 70	21:59 79N	03:36 292
2024 Mar 22 (Fri)	16:24 75	22:41 84N	04:18 287
2024 Mar 23 (Sat)	17:08 81	23:22 90N	04:57 282
2024 Mar 24 (Sun)	17:50 86		05:34 276
2024 Mar 25 (Mon)	18:31 92	00:01 86S	06:10 271
2024 Mar 26 (Tue)	19:14 98	00:40 80S	06:47 265
2024 Mar 27 (Wed)	19:58 104	01:19 74S	07:24 259
2024 Mar 28 (Thu)	20:44 109	02:01 69S	08:03 254
2024 Mar 29 (Fri)	21:34 113	02:46 64S	08:46 249
2024 Mar 30 (Sat)	22:27 116	03:34 60S	09:33 245
2024 Mar 31 (Sun)	23:24 118	04:26 57S	10:25 242
2024 Apr 01 (Mon)		05:22 55S	11:21 241
2024 Apr 02 (Tue)	00:22 119	06:21 55S	12:20 242
2024 Apr 03 (Wed)	01:20 117	07:20 57S	13:20 244
2024 Apr 04 (Thu)	02:16 114	08:17 61S	14:20 248
2024 Apr 05 (Fri)	03:09 109	09:13 66S	15:18 254
2024 Apr 06 (Sat)	04:00 103	10:06 73S	16:14 261
2024 Apr 07 (Sun)	04:48 95	10:57 80S	17:09 268
2024 Apr 08 (Mon)	05:35 88	11:48 88S	18:03 276
2024 Apr 09 (Tue)	06:23 81	12:40 86N	18:59 283
2024 Apr 10 (Wed)	07:13 74	13:34 80N	19:57 289
2024 Apr 11 (Thu)	08:05 68	14:30 74N	20:56 294

2024 Apr 12 (Fri)	09:00 64	15:28 71N	21:56 297
2024 Apr 13 (Sat)	09:57 62	16:26 69N	22:56 299
2024 Apr 14 (Sun)	10:55 61	17:24 69N	23:53 298
2024 Apr 15 (Mon)	11:51 62	18:19 70N	
2024 Apr 16 (Tue)	12:45 65	19:09 73N	00:45 296
2024 Apr 17 (Wed)	13:35 69	19:56 77N	01:33 293
2024 Apr 18 (Thu)	14:21 74	20:40 82N	02:17 289
2024 Apr 19 (Fri)	15:05 79	21:20 88N	02:57 284
2024 Apr 20 (Sat)	15:48 84	22:00 88S	03:34 278
2024 Apr 21 (Sun)	16:29 90	22:39 82S	04:10 273
2024 Apr 22 (Mon)	17:12 96	23:18 76S	04:47 267
2024 Apr 23 (Tue)	17:55 102	23:59 71S	05:23 261
2024 Apr 24 (Wed)	18:41 107		06:02 256
2024 Apr 25 (Thu)	19:30 112	00:43 65S	06:44 250
2024 Apr 26 (Fri)	20:23 116	01:31 61S	07:30 246
2024 Apr 27 (Sat)	21:19 118	02:22 57S	08:21 243
2024 Apr 28 (Sun)	22:17 119	03:17 55S	09:16 241
2024 Apr 29 (Mon)	23:14 118	04:15 55S	10:14 241
2024 Apr 30 (Tue)		05:13 56S	11:13 243
2024 May 01 (Wed)	00:10 115	06:10 59S	12:12 247
2024 May 02 (Thu)	01:03 111	07:05 64S	13:08 252
2024 May 03 (Fri)	01:52 105	07:57 70S	14:03 258
2024 May 04 (Sat)	02:40 99	08:47 77S	14:56 265
2024 May 05 (Sun)	03:26 91	09:37 84S	15:49 272
2024 May 06 (Mon)	04:12 84	10:26 90N	16:43 279
2024 May 07 (Tue)	04:59 77	11:18 83N	17:39 286
2024 May 08 (Wed)	05:50 71	12:13 77N	18:37 292
2024 May 09 (Thu)	06:44 66	13:10 72N	19:38 296
2024 May 10 (Fri)	07:41 63	14:10 70N	20:39 298
2024 May 11 (Sat)	08:40 61	15:10 69N	21:39 299
2024 May 12 (Sun)	09:39 62	16:07 70N	22:35 297
2024 May 13 (Mon)	10:35 64	17:01 72N	23:26 294
2024 May 14 (Tue)	11:27 67	17:50 76N	
2024 May 15 (Wed)	12:16 72	18:35 80N	00:12 290
2024 May 16 (Thu)	13:01 77	19:17 86N	00:54 286
2024 May 17 (Fri)	13:44 82	19:57 90S	01:32 280
2024 May 18 (Sat)	14:26 88	20:36 84S	02:09 275
2024 May 19 (Sun)	15:08 94	21:15 78S	02:45 269
2024 May 20 (Mon)	15:51 100	21:56 73S	03:22 263
2024 May 21 (Tue)	16:36 105	22:39 67S	04:00 258
2024 May 22 (Wed)	17:24 110	23:25 62S	04:41 252
2024 May 23 (Thu)	18:16 114		05:26 248
2024 May 24 (Fri)	19:12 117	00:16 58S	06:15 244
2024 May 25 (Sat)	20:10 119	01:11 56S	07:10 242
2024 May 26 (Sun)	21:09 118	02:09 55S	08:08 241
2024 May 27 (Mon)	22:06 116	03:08 56S	09:08 243
2024 May 28 (Tue)	23:00 112	04:06 59S	10:07 246
2024 May 29 (Wed)	23:50 107	05:01 63S	11:04 250
2024 May 30 (Thu)		05:53 68S	11:59 256
2024 May 31 (Fri)	00:37 101	06:43 75S	12:51 263
2024 Jun 01 (Sat)	01:22 94	07:31 82S	13:42 270
2024 Jun 02 (Sun)	02:06 87	08:19 89S	14:34 277
2024 Jun 03 (Mon)	02:52 80	09:09 86N	15:27 284
2024 Jun 04 (Tue)	03:40 73	10:00 79N	16:23 289
2024 Jun 05 (Wed)	04:31 68	10:56 74N	17:22 294
2024 Jun 06 (Thu)	05:26 64	11:54 71N	18:22 297
2024 Jun 07 (Fri)	06:24 62	12:54 69N	19:23 299
2024 Jun 08 (Sat)	07:23 62	13:53 69N	20:22 298
2024 Jun 09 (Sun)	08:22 63	14:49 71N	21:15 296
2024 Jun 10 (Mon)	09:17 66	15:41 74N	22:04 292
2024 Jun 11 (Tue)	10:07 70	16:29 79N	22:48 288
2024 Jun 12 (Wed)	10:55 75	17:12 84N	23:29 282
2024 Jun 13 (Thu)	11:39 80	17:53 89N	
2024 Jun 14 (Fri)	12:21 86	18:33 86S	00:06 277
2024 Jun 15 (Sat)	13:03 92	19:11 81S	00:42 271
2024 Jun 16 (Sun)	13:45 98	19:51 75S	01:19 265
2024 Jun 17 (Mon)	14:29 103	20:33 69S	01:56 260

2024 Jun 18 (Tue)	15:16 108	21:18 64S	02:35 254
2024 Jun 19 (Wed)	16:06 113	22:07 60S	03:19 249
2024 Jun 20 (Thu)	17:01 116	23:00 57S	04:06 245
2024 Jun 21 (Fri)	17:59 118	23:58 55S	04:59 243
2024 Jun 22 (Sat)	18:59 118		05:57 241
2024 Jun 23 (Sun)	19:58 117	00:58 55S	06:58 242
2024 Jun 24 (Mon)	20:54 113	01:58 57S	07:59 245
2024 Jun 25 (Tue)	21:47 108	02:56 61S	08:58 249
2024 Jun 26 (Wed)	22:35 102	03:50 67S	09:54 254
2024 Jun 27 (Thu)	23:21 96	04:41 73S	10:48 261
2024 Jun 28 (Fri)		05:29 80S	11:40 268
2024 Jun 29 (Sat)	00:05 89	06:17 87S	12:31 275
2024 Jun 30 (Sun)	00:49 82	07:05 88N	13:22 282
2024 Jul 01 (Mon)	01:35 75	07:55 81N	14:16 288
2024 Jul 02 (Tue)	02:24 70	08:47 76N	15:12 293
2024 Jul 03 (Wed)	03:17 65	09:43 72N	16:11 296
2024 Jul 04 (Thu)	04:13 62	10:41 69N	17:11 298
2024 Jul 05 (Fri)	05:11 61	11:40 69N	18:10 298
2024 Jul 06 (Sat)	06:09 62	12:38 70N	19:05 297
2024 Jul 07 (Sun)	07:06 65	13:32 73N	19:56 294
2024 Jul 08 (Mon)	07:58 68	14:21 77N	20:42 289
2024 Jul 09 (Tue)	08:47 73	15:07 82N	21:24 284
2024 Jul 10 (Wed)	09:33 78	15:49 87N	22:03 279
2024 Jul 11 (Thu)	10:16 84	16:29 89S	22:40 273
2024 Jul 12 (Fri)	10:58 90	17:08 83S	23:16 267
2024 Jul 13 (Sat)	11:40 95	17:47 77S	23:52 262
2024 Jul 14 (Sun)	12:22 101	18:27 71S	
2024 Jul 15 (Mon)	13:07 106	19:10 66S	00:30 256
2024 Jul 16 (Tue)	13:56 111	19:57 61S	01:11 251
2024 Jul 17 (Wed)	14:48 115	20:48 58S	01:56 247
2024 Jul 18 (Thu)	15:44 118	21:44 56S	02:47 244
2024 Jul 19 (Fri)	16:44 119	22:43 55S	03:42 242
2024 Jul 20 (Sat)	17:44 118	23:44 56S	04:42 242
2024 Jul 21 (Sun)	18:43 115		05:44 243
2024 Jul 22 (Mon)	19:38 110	00:44 60S	06:46 247
2024 Jul 23 (Tue)	20:29 105	01:41 65S	07:45 252
2024 Jul 24 (Wed)	21:17 98	02:34 71S	08:41 259
2024 Jul 25 (Thu)	22:03 91	03:25 78S	09:35 266
2024 Jul 26 (Fri)	22:48 84	04:14 85S	10:27 273
2024 Jul 27 (Sat)	23:34 77	05:02 89N	11:19 280
2024 Jul 28 (Sun)		05:52 83N	12:12 286
2024 Jul 29 (Mon)	00:21 71	06:44 77N	13:07 292
2024 Jul 30 (Tue)	01:12 66	07:38 73N	14:05 296
2024 Jul 31 (Wed)	02:07 63	08:35 70N	15:04 298
2024 Aug 01 (Thu)	03:04 61	09:33 69N	16:02 299
2024 Aug 02 (Fri)	04:01 62	10:30 69N	16:58 298
2024 Aug 03 (Sat)	04:58 63	11:24 72N	17:50 295
2024 Aug 04 (Sun)	05:51 67	12:15 75N	18:37 291
2024 Aug 05 (Mon)	06:41 71	13:02 80N	19:21 286
2024 Aug 06 (Tue)	07:28 76	13:45 85N	20:00 281
2024 Aug 07 (Wed)	08:12 82	14:26 91S	20:38 275
2024 Aug 08 (Thu)	08:54 88	15:05 85S	21:14 270
2024 Aug 09 (Fri)	09:36 93	15:43 79S	21:50 264
2024 Aug 10 (Sat)	10:18 99	16:23 73S	22:27 258
2024 Aug 11 (Sun)	11:01 105	17:04 68S	23:06 253
2024 Aug 12 (Mon)	11:47 110	17:49 63S	23:49 248
2024 Aug 13 (Tue)	12:37 114	18:37 59S	
2024 Aug 14 (Wed)	13:31 117	19:30 56S	00:36 245
2024 Aug 15 (Thu)	14:28 119	20:27 55S	01:28 242
2024 Aug 16 (Fri)	15:27 119	21:26 55S	02:25 241
2024 Aug 17 (Sat)	16:26 117	22:27 58S	03:26 242
2024 Aug 18 (Sun)	17:23 113	23:25 62S	04:28 245
2024 Aug 19 (Mon)	18:17 107		05:28 250
2024 Aug 20 (Tue)	19:07 101	00:21 68S	06:27 256
2024 Aug 21 (Wed)	19:55 94	01:14 75S	07:23 263
2024 Aug 22 (Thu)	20:42 86	02:05 82S	08:17 270
2024 Aug 23 (Fri)	21:29 79	02:56 89S	09:11 277

2024 Aug 24 (Sat)	22:17	73	03:46	85N	10:06	284
2024 Aug 25 (Sun)	23:08	67	04:39	79N	11:02	290
2024 Aug 26 (Mon)			05:33	74N	12:00	295
2024 Aug 27 (Tue)	00:02	64	06:30	70N	12:59	298
2024 Aug 28 (Wed)	00:59	62	07:28	69N	13:57	299
2024 Aug 29 (Thu)	01:56	61	08:25	69N	14:54	298
2024 Aug 30 (Fri)	02:53	63	09:20	71N	15:46	296
2024 Aug 31 (Sat)	03:47	65	10:11	74N	16:35	293
2024 Sep 01 (Sun)	04:37	69	10:59	78N	17:19	288
2024 Sep 02 (Mon)	05:25	74	11:43	83N	17:59	283
2024 Sep 03 (Tue)	06:09	80	12:24	89N	18:37	277
2024 Sep 04 (Wed)	06:52	86	13:03	87S	19:13	272
2024 Sep 05 (Thu)	07:33	91	13:42	81S	19:49	266
2024 Sep 06 (Fri)	08:15	97	14:21	75S	20:26	260
2024 Sep 07 (Sat)	08:58	103	15:01	70S	21:04	255
2024 Sep 08 (Sun)	09:43	108	15:44	65S	21:45	250
2024 Sep 09 (Mon)	10:30	112	16:30	60S	22:29	246
2024 Sep 10 (Tue)	11:21	116	17:20	57S	23:18	243
2024 Sep 11 (Wed)	12:16	118	18:14	55S		
2024 Sep 12 (Thu)	13:13	119	19:11	55S	00:12	241
2024 Sep 13 (Fri)	14:11	118	20:10	56S	01:10	241
2024 Sep 14 (Sat)	15:07	115	21:08	60S	02:10	243
2024 Sep 15 (Sun)	16:02	110	22:04	64S	03:10	247
2024 Sep 16 (Mon)	16:53	104	22:59	71S	04:08	252
2024 Sep 17 (Tue)	17:42	97	23:51	78S	05:06	259
2024 Sep 18 (Wed)	18:30	90			06:01	266
2024 Sep 19 (Thu)	19:18	82	00:42	86S	06:56	274
2024 Sep 20 (Fri)	20:07	75	01:34	88N	07:52	281
2024 Sep 21 (Sat)	20:59	69	02:28	81N	08:50	288
2024 Sep 22 (Sun)	21:54	65	03:23	75N	09:49	293
2024 Sep 23 (Mon)	22:52	62	04:21	71N	10:50	297
2024 Sep 24 (Tue)	23:50	61	05:21	69N	11:50	299
2024 Sep 25 (Wed)			06:20	68N	12:49	299
2024 Sep 26 (Thu)	00:48	62	07:16	70N	13:43	297
2024 Sep 27 (Fri)	01:43	64	08:09	73N	14:33	294
2024 Sep 28 (Sat)	02:35	68	08:57	77N	15:18	290
2024 Sep 29 (Sun)	03:23	73	09:42	81N	15:59	285
2024 Sep 30 (Mon)	04:08	78	10:23	87N	16:38	279
2024 Oct 01 (Tue)	04:51	84	11:03	89S	17:14	273
2024 Oct 02 (Wed)	05:32	89	11:42	83S	17:50	268
2024 Oct 03 (Thu)	06:14	95	12:21	77S	18:26	262
2024 Oct 04 (Fri)	06:56	101	13:01	71S	19:04	256
2024 Oct 05 (Sat)	07:40	106	13:42	66S	19:44	251
2024 Oct 06 (Sun)	08:27	111	14:27	62S	20:27	247
2024 Oct 07 (Mon)	09:17	115	15:16	58S	21:14	244
2024 Oct 08 (Tue)	10:09	118	16:07	56S	22:05	242
2024 Oct 09 (Wed)	11:04	119	17:02	55S	23:00	241
2024 Oct 10 (Thu)	12:00	119	17:59	55S	23:58	242
2024 Oct 11 (Fri)	12:56	116	18:55	58S		
2024 Oct 12 (Sat)	13:49	113	19:51	62S	00:56	245
2024 Oct 13 (Sun)	14:40	108	20:44	68S	01:53	250
2024 Oct 14 (Mon)	15:29	101	21:36	74S	02:49	255
2024 Oct 15 (Tue)	16:16	94	22:26	82S	03:44	262
2024 Oct 16 (Wed)	17:04	86	23:18	89S	04:38	270
2024 Oct 17 (Thu)	17:52	79			05:34	277
2024 Oct 18 (Fri)	18:44	72	00:11	85N	06:31	284
2024 Oct 19 (Sat)	19:39	67	01:06	78N	07:31	291
2024 Oct 20 (Sun)	20:37	63	02:05	73N	08:33	295
2024 Oct 21 (Mon)	21:38	61	03:06	70N	09:36	298
2024 Oct 22 (Tue)	22:38	61	04:08	68N	10:38	299
2024 Oct 23 (Wed)	23:36	63	05:07	69N	11:36	298
2024 Oct 24 (Thu)			06:03	72N	12:28	295
2024 Oct 25 (Fri)	00:30	67	06:54	75N	13:16	291
2024 Oct 26 (Sat)	01:20	71	07:40	80N	13:59	286
2024 Oct 27 (Sun)	02:06	76	08:22	85N	14:38	281
2024 Oct 28 (Mon)	02:49	82	09:03	91S	15:15	275
2024 Oct 29 (Tue)	03:31	88	09:42	85S	15:51	270

2024	Oct	30	(Wed)	04:13	93	10:20	79S	16:26	264
2024	Oct	31	(Thu)	04:55	99	11:00	73S	17:04	258
2024	Nov	01	(Fri)	05:38	105	11:41	68S	17:43	253
2024	Nov	02	(Sat)	06:24	110	12:25	63S	18:25	248
2024	Nov	03	(Sun)	07:13	114	13:13	59S	19:11	245
2024	Nov	04	(Mon)	08:05	117	14:04	56S	20:02	242
2024	Nov	05	(Tue)	09:00	119	14:58	55S	20:56	241
2024	Nov	06	(Wed)	09:55	119	15:53	55S	21:52	242
2024	Nov	07	(Thu)	10:50	117	16:49	57S	22:49	244
2024	Nov	08	(Fri)	11:43	114	17:43	60S	23:45	248
2024	Nov	09	(Sat)	12:33	110	18:36	65S		
2024	Nov	10	(Sun)	13:21	104	19:26	71S	00:39	253
2024	Nov	11	(Mon)	14:07	97	20:15	78S	01:32	259
2024	Nov	12	(Tue)	14:52	90	21:04	86S	02:25	266
2024	Nov	13	(Wed)	15:39	83	21:54	88N	03:17	274
2024	Nov	14	(Thu)	16:28	76	22:48	82N	04:12	281
2024	Nov	15	(Fri)	17:21	70	23:45	76N	05:10	287
2024	Nov	16	(Sat)	18:18	65			06:11	293
2024	Nov	17	(Sun)	19:19	62	00:46	71N	07:15	297
2024	Nov	18	(Mon)	20:21	61	01:49	69N	08:19	299
2024	Nov	19	(Tue)	21:22	62	02:51	69N	09:21	298
2024	Nov	20	(Wed)	22:19	65	03:50	70N	10:18	296
2024	Nov	21	(Thu)	23:12	69	04:45	74N	11:09	293
2024	Nov	22	(Fri)			05:34	78N	11:54	288
2024	Nov	23	(Sat)	00:01	74	06:19	83N	12:35	283
2024	Nov	24	(Sun)	00:46	80	07:00	89N	13:13	277
2024	Nov	25	(Mon)	01:28	86	07:40	87S	13:50	271
2024	Nov	26	(Tue)	02:10	91	08:18	81S	14:26	266
2024	Nov	27	(Wed)	02:52	97	08:58	75S	15:02	260
2024	Nov	28	(Thu)	03:35	103	09:38	70S	15:41	255
2024	Nov	29	(Fri)	04:20	108	10:21	65S	16:22	250
2024	Nov	30	(Sat)	05:08	112	11:08	60S	17:07	246
2024	Dec	01	(Sun)	06:00	116	11:59	57S	17:57	243
2024	Dec	02	(Mon)	06:54	118	12:52	55S	18:51	241
2024	Dec	03	(Tue)	07:50	119	13:48	55S	19:47	242
2024	Dec	04	(Wed)	08:46	118	14:45	56S	20:44	243
2024	Dec	05	(Thu)	09:40	115	15:40	59S	21:41	247
2024	Dec	06	(Fri)	10:31	111	16:32	64S	22:35	252
2024	Dec	07	(Sat)	11:18	106	17:22	70S	23:28	257
2024	Dec	08	(Sun)	12:04	99	18:10	76S		
2024	Dec	09	(Mon)	12:48	93	18:58	83S	00:19	264
2024	Dec	10	(Tue)	13:32	86	19:45	90S	01:09	271
2024	Dec	11	(Wed)	14:18	79	20:36	84N	02:01	278
2024	Dec	12	(Thu)	15:07	72	21:29	78N	02:55	285
2024	Dec	13	(Fri)	16:01	67	22:27	73N	03:53	291
2024	Dec	14	(Sat)	16:59	63	23:28	70N	04:54	295
2024	Dec	15	(Sun)	18:01	61			05:58	298
2024	Dec	16	(Mon)	19:03	62	00:31	69N	07:01	299
2024	Dec	17	(Tue)	20:04	64	01:33	69N	08:02	297
2024	Dec	18	(Wed)	21:00	68	02:31	72N	08:57	294
2024	Dec	19	(Thu)	21:51	72	03:24	76N	09:46	290
2024	Dec	20	(Fri)	22:39	78	04:11	81N	10:30	285
2024	Dec	21	(Sat)	23:23	83	04:55	87N	11:10	279
2024	Dec	22	(Sun)			05:36	89S	11:47	274
2024	Dec	23	(Mon)	00:05	89	06:15	83S	12:23	268
2024	Dec	24	(Tue)	00:47	95	06:54	77S	12:59	262
2024	Dec	25	(Wed)	01:29	101	07:34	72S	13:37	257
2024	Dec	26	(Thu)	02:13	106	08:16	66S	14:17	252
2024	Dec	27	(Fri)	03:00	111	09:01	62S	15:01	247
2024	Dec	28	(Sat)	03:51	115	09:50	58S	15:49	244
2024	Dec	29	(Sun)	04:44	117	10:43	56S	16:41	242
2024	Dec	30	(Mon)	05:41	119	11:39	55S	17:37	241
2024	Dec	31	(Tue)	06:38	118	12:36	56S	18:36	243