

Sun

VTDS

Location: E100°24'00.0", N 6°56'00.0", 90m
(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)	05:41	06:30 113		12:22 61S	18:14 247		19:02
2024 Jan 02 (Tue)	05:41	06:30 113		12:22 61S	18:14 247		19:03
2024 Jan 03 (Wed)	05:42	06:31 113		12:23 61S	18:15 247		19:03
2024 Jan 04 (Thu)	05:42	06:31 113		12:23 61S	18:15 247		19:04
2024 Jan 05 (Fri)	05:43	06:31 113		12:23 61S	18:16 247		19:04
2024 Jan 06 (Sat)	05:43	06:32 113		12:24 61S	18:16 247		19:05
2024 Jan 07 (Sun)	05:44	06:32 113		12:24 61S	18:17 248		19:05
2024 Jan 08 (Mon)	05:44	06:32 112		12:25 61S	18:17 248		19:06
2024 Jan 09 (Tue)	05:44	06:33 112		12:25 62S	18:18 248		19:06
2024 Jan 10 (Wed)	05:45	06:33 112		12:26 62S	18:18 248		19:06
2024 Jan 11 (Thu)	05:45	06:34 112		12:26 62S	18:19 248		19:07
2024 Jan 12 (Fri)	05:46	06:34 112		12:26 62S	18:19 248		19:07
2024 Jan 13 (Sat)	05:46	06:34 112		12:27 62S	18:20 248		19:08
2024 Jan 14 (Sun)	05:46	06:34 111		12:27 62S	18:20 249		19:08
2024 Jan 15 (Mon)	05:47	06:35 111		12:28 63S	18:20 249		19:09
2024 Jan 16 (Tue)	05:47	06:35 111		12:28 63S	18:21 249		19:09
2024 Jan 17 (Wed)	05:47	06:35 111		12:28 63S	18:21 249		19:09
2024 Jan 18 (Thu)	05:47	06:35 111		12:29 63S	18:22 249		19:10
2024 Jan 19 (Fri)	05:48	06:36 111		12:29 63S	18:22 250		19:10
2024 Jan 20 (Sat)	05:48	06:36 110		12:29 64S	18:23 250		19:10
2024 Jan 21 (Sun)	05:48	06:36 110		12:29 64S	18:23 250		19:11
2024 Jan 22 (Mon)	05:49	06:36 110		12:30 64S	18:23 250		19:11
2024 Jan 23 (Tue)	05:49	06:36 110		12:30 64S	18:24 250		19:11
2024 Jan 24 (Wed)	05:49	06:36 109		12:30 64S	18:24 251		19:12
2024 Jan 25 (Thu)	05:49	06:37 109		12:31 65S	18:25 251		19:12
2024 Jan 26 (Fri)	05:49	06:37 109		12:31 65S	18:25 251		19:12
2024 Jan 27 (Sat)	05:49	06:37 109		12:31 65S	18:25 251		19:13
2024 Jan 28 (Sun)	05:50	06:37 108		12:31 65S	18:26 252		19:13
2024 Jan 29 (Mon)	05:50	06:37 108		12:31 66S	18:26 252		19:13
2024 Jan 30 (Tue)	05:50	06:37 108		12:32 66S	18:26 252		19:13
2024 Jan 31 (Wed)	05:50	06:37 108		12:32 66S	18:26 253		19:14
2024 Feb 01 (Thu)	05:50	06:37 107		12:32 67S	18:27 253		19:14
2024 Feb 02 (Fri)	05:50	06:37 107		12:32 67S	18:27 253		19:14
2024 Feb 03 (Sat)	05:50	06:37 107		12:32 67S	18:27 253		19:14
2024 Feb 04 (Sun)	05:50	06:37 106		12:32 67S	18:28 254		19:14
2024 Feb 05 (Mon)	05:50	06:37 106		12:32 68S	18:28 254		19:15
2024 Feb 06 (Tue)	05:50	06:37 106		12:32 68S	18:28 254		19:15
2024 Feb 07 (Wed)	05:50	06:37 106		12:32 68S	18:28 255		19:15
2024 Feb 08 (Thu)	05:50	06:37 105		12:33 69S	18:28 255		19:15
2024 Feb 09 (Fri)	05:50	06:36 105		12:33 69S	18:29 255		19:15
2024 Feb 10 (Sat)	05:50	06:36 105		12:33 69S	18:29 256		19:15
2024 Feb 11 (Sun)	05:50	06:36 104		12:33 70S	18:29 256		19:15
2024 Feb 12 (Mon)	05:50	06:36 104		12:33 70S	18:29 256		19:15
2024 Feb 13 (Tue)	05:50	06:36 104		12:33 70S	18:29 257		19:16
2024 Feb 14 (Wed)	05:50	06:36 103		12:33 71S	18:30 257		19:16
2024 Feb 15 (Thu)	05:49	06:36 103		12:33 71S	18:30 257		19:16
2024 Feb 16 (Fri)	05:49	06:35 103		12:32 71S	18:30 258		19:16
2024 Feb 17 (Sat)	05:49	06:35 102		12:32 72S	18:30 258		19:16
2024 Feb 18 (Sun)	05:49	06:35 102		12:32 72S	18:30 258		19:16
2024 Feb 19 (Mon)	05:49	06:35 102		12:32 72S	18:30 259		19:16
2024 Feb 20 (Tue)	05:49	06:34 101		12:32 73S	18:30 259		19:16
2024 Feb 21 (Wed)	05:48	06:34 101		12:32 73S	18:30 259		19:16
2024 Feb 22 (Thu)	05:48	06:34 100		12:32 73S	18:30 260		19:16
2024 Feb 23 (Fri)	05:48	06:33 100		12:32 74S	18:30 260		19:16
2024 Feb 24 (Sat)	05:48	06:33 100		12:32 74S	18:30 260		19:16

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

2024	May	02	(Thu)	05:17	06:04	74	12:15	82N	18:27	286	19:14
2024	May	03	(Fri)	05:17	06:04	74	12:15	82N	18:27	286	19:14
2024	May	04	(Sat)	05:17	06:04	74	12:15	82N	18:27	286	19:14
2024	May	05	(Sun)	05:16	06:03	73	12:15	81N	18:27	287	19:14
2024	May	06	(Mon)	05:16	06:03	73	12:15	81N	18:27	287	19:14
2024	May	07	(Tue)	05:16	06:03	73	12:15	81N	18:27	287	19:14
2024	May	08	(Wed)	05:15	06:03	73	12:15	80N	18:27	288	19:14
2024	May	09	(Thu)	05:15	06:03	72	12:15	80N	18:27	288	19:15
2024	May	10	(Fri)	05:15	06:02	72	12:15	80N	18:27	288	19:15
2024	May	11	(Sat)	05:15	06:02	72	12:15	80N	18:27	288	19:15
2024	May	12	(Sun)	05:14	06:02	72	12:15	79N	18:28	289	19:15
2024	May	13	(Mon)	05:14	06:02	71	12:15	79N	18:28	289	19:15
2024	May	14	(Tue)	05:14	06:02	71	12:15	79N	18:28	289	19:16
2024	May	15	(Wed)	05:14	06:02	71	12:15	79N	18:28	289	19:16
2024	May	16	(Thu)	05:14	06:02	71	12:15	78N	18:28	290	19:16
2024	May	17	(Fri)	05:13	06:01	70	12:15	78N	18:28	290	19:16
2024	May	18	(Sat)	05:13	06:01	70	12:15	78N	18:28	290	19:17
2024	May	19	(Sun)	05:13	06:01	70	12:15	78N	18:29	290	19:17
2024	May	20	(Mon)	05:13	06:01	70	12:15	78N	18:29	290	19:17
2024	May	21	(Tue)	05:13	06:01	70	12:15	77N	18:29	291	19:17
2024	May	22	(Wed)	05:13	06:01	69	12:15	77N	18:29	291	19:18
2024	May	23	(Thu)	05:13	06:01	69	12:15	77N	18:29	291	19:18
2024	May	24	(Fri)	05:13	06:01	69	12:15	77N	18:30	291	19:18
2024	May	25	(Sat)	05:12	06:01	69	12:15	77N	18:30	291	19:18
2024	May	26	(Sun)	05:12	06:01	69	12:15	76N	18:30	292	19:19
2024	May	27	(Mon)	05:12	06:01	68	12:16	76N	18:30	292	19:19
2024	May	28	(Tue)	05:12	06:01	68	12:16	76N	18:30	292	19:19
2024	May	29	(Wed)	05:12	06:01	68	12:16	76N	18:31	292	19:19
2024	May	30	(Thu)	05:12	06:01	68	12:16	76N	18:31	292	19:20
2024	May	31	(Fri)	05:12	06:01	68	12:16	76N	18:31	292	19:20
2024	Jun	01	(Sat)	05:12	06:01	68	12:16	76N	18:31	292	19:20
2024	Jun	02	(Sun)	05:12	06:01	67	12:16	75N	18:32	293	19:21
2024	Jun	03	(Mon)	05:12	06:02	67	12:17	75N	18:32	293	19:21
2024	Jun	04	(Tue)	05:12	06:02	67	12:17	75N	18:32	293	19:21
2024	Jun	05	(Wed)	05:13	06:02	67	12:17	75N	18:32	293	19:21
2024	Jun	06	(Thu)	05:13	06:02	67	12:17	75N	18:32	293	19:22
2024	Jun	07	(Fri)	05:13	06:02	67	12:17	75N	18:33	293	19:22
2024	Jun	08	(Sat)	05:13	06:02	67	12:18	75N	18:33	293	19:22
2024	Jun	09	(Sun)	05:13	06:02	67	12:18	75N	18:33	293	19:23
2024	Jun	10	(Mon)	05:13	06:02	67	12:18	75N	18:33	293	19:23
2024	Jun	11	(Tue)	05:13	06:03	67	12:18	75N	18:34	293	19:23
2024	Jun	12	(Wed)	05:13	06:03	67	12:18	74N	18:34	293	19:23
2024	Jun	13	(Thu)	05:13	06:03	66	12:19	74N	18:34	294	19:24
2024	Jun	14	(Fri)	05:14	06:03	66	12:19	74N	18:34	294	19:24
2024	Jun	15	(Sat)	05:14	06:03	66	12:19	74N	18:35	294	19:24
2024	Jun	16	(Sun)	05:14	06:03	66	12:19	74N	18:35	294	19:24
2024	Jun	17	(Mon)	05:14	06:04	66	12:19	74N	18:35	294	19:25
2024	Jun	18	(Tue)	05:14	06:04	66	12:20	74N	18:35	294	19:25
2024	Jun	19	(Wed)	05:15	06:04	66	12:20	74N	18:36	294	19:25
2024	Jun	20	(Thu)	05:15	06:04	66	12:20	74N	18:36	294	19:25
2024	Jun	21	(Fri)	05:15	06:04	66	12:20	74N	18:36	294	19:26
2024	Jun	22	(Sat)	05:15	06:05	66	12:20	74N	18:36	294	19:26
2024	Jun	23	(Sun)	05:15	06:05	66	12:21	74N	18:36	294	19:26
2024	Jun	24	(Mon)	05:16	06:05	66	12:21	74N	18:37	294	19:26
2024	Jun	25	(Tue)	05:16	06:05	66	12:21	74N	18:37	294	19:26
2024	Jun	26	(Wed)	05:16	06:06	66	12:21	74N	18:37	294	19:27
2024	Jun	27	(Thu)	05:16	06:06	66	12:22	74N	18:37	294	19:27
2024	Jun	28	(Fri)	05:17	06:06	66	12:22	74N	18:37	294	19:27
2024	Jun	29	(Sat)	05:17	06:06	66	12:22	74N	18:38	293	19:27
2024	Jun	30	(Sun)	05:17	06:07	67	12:22	75N	18:38	293	19:27
2024	Jul	01	(Mon)	05:17	06:07	67	12:22	75N	18:38	293	19:27
2024	Jul	02	(Tue)	05:18	06:07	67	12:23	75N	18:38	293	19:27
2024	Jul	03	(Wed)	05:18	06:07	67	12:23	75N	18:38	293	19:27
2024	Jul	04	(Thu)	05:18	06:07	67	12:23	75N	18:38	293	19:28
2024	Jul	05	(Fri)	05:18	06:08	67	12:23	75N	18:38	293	19:28
2024	Jul	06	(Sat)	05:19	06:08	67	12:23	75N	18:39	293	19:28
2024	Jul	07	(Sun)	05:19	06:08	67	12:23	75N	18:39	293	19:28

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

2024 Sep 13 (Fri)	05:24	06:09	86	12:14	87S	18:19	274	19:04
2024 Sep 14 (Sat)	05:24	06:09	87	12:14	87S	18:19	273	19:04
2024 Sep 15 (Sun)	05:24	06:09	87	12:14	87S	18:18	273	19:03
2024 Sep 16 (Mon)	05:24	06:09	87	12:13	86S	18:18	272	19:03
2024 Sep 17 (Tue)	05:23	06:09	88	12:13	86S	18:17	272	19:02
2024 Sep 18 (Wed)	05:23	06:08	88	12:12	85S	18:16	272	19:02
2024 Sep 19 (Thu)	05:23	06:08	89	12:12	85S	18:16	271	19:01
2024 Sep 20 (Fri)	05:23	06:08	89	12:12	85S	18:15	271	19:00
2024 Sep 21 (Sat)	05:23	06:08	89	12:11	84S	18:15	271	19:00
2024 Sep 22 (Sun)	05:23	06:08	90	12:11	84S	18:14	270	18:59
2024 Sep 23 (Mon)	05:23	06:08	90	12:11	84S	18:14	270	18:59
2024 Sep 24 (Tue)	05:22	06:07	90	12:10	83S	18:13	269	18:58
2024 Sep 25 (Wed)	05:22	06:07	91	12:10	83S	18:13	269	18:58
2024 Sep 26 (Thu)	05:22	06:07	91	12:10	82S	18:12	269	18:57
2024 Sep 27 (Fri)	05:22	06:07	92	12:09	82S	18:12	268	18:57
2024 Sep 28 (Sat)	05:22	06:07	92	12:09	82S	18:11	268	18:56
2024 Sep 29 (Sun)	05:22	06:07	92	12:09	81S	18:11	267	18:56
2024 Sep 30 (Mon)	05:21	06:06	93	12:08	81S	18:10	267	18:55
2024 Oct 01 (Tue)	05:21	06:06	93	12:08	80S	18:10	267	18:55
2024 Oct 02 (Wed)	05:21	06:06	94	12:08	80S	18:09	266	18:54
2024 Oct 03 (Thu)	05:21	06:06	94	12:07	80S	18:09	266	18:54
2024 Oct 04 (Fri)	05:21	06:06	94	12:07	79S	18:08	265	18:53
2024 Oct 05 (Sat)	05:21	06:06	95	12:07	79S	18:08	265	18:53
2024 Oct 06 (Sun)	05:21	06:06	95	12:06	78S	18:07	265	18:52
2024 Oct 07 (Mon)	05:20	06:06	96	12:06	78S	18:07	264	18:52
2024 Oct 08 (Tue)	05:20	06:06	96	12:06	78S	18:06	264	18:51
2024 Oct 09 (Wed)	05:20	06:05	96	12:06	77S	18:06	264	18:51
2024 Oct 10 (Thu)	05:20	06:05	97	12:05	77S	18:05	263	18:51
2024 Oct 11 (Fri)	05:20	06:05	97	12:05	77S	18:05	263	18:50
2024 Oct 12 (Sat)	05:20	06:05	97	12:05	76S	18:04	262	18:50
2024 Oct 13 (Sun)	05:20	06:05	98	12:05	76S	18:04	262	18:49
2024 Oct 14 (Mon)	05:20	06:05	98	12:04	75S	18:04	262	18:49
2024 Oct 15 (Tue)	05:20	06:05	99	12:04	75S	18:03	261	18:49
2024 Oct 16 (Wed)	05:20	06:05	99	12:04	75S	18:03	261	18:48
2024 Oct 17 (Thu)	05:19	06:05	99	12:04	74S	18:02	261	18:48
2024 Oct 18 (Fri)	05:19	06:05	100	12:04	74S	18:02	260	18:48
2024 Oct 19 (Sat)	05:19	06:05	100	12:03	74S	18:02	260	18:47
2024 Oct 20 (Sun)	05:19	06:05	100	12:03	73S	18:01	259	18:47
2024 Oct 21 (Mon)	05:19	06:05	101	12:03	73S	18:01	259	18:47
2024 Oct 22 (Tue)	05:19	06:05	101	12:03	73S	18:01	259	18:46
2024 Oct 23 (Wed)	05:19	06:05	101	12:03	72S	18:00	258	18:46
2024 Oct 24 (Thu)	05:19	06:05	102	12:03	72S	18:00	258	18:46
2024 Oct 25 (Fri)	05:19	06:05	102	12:02	72S	18:00	258	18:46
2024 Oct 26 (Sat)	05:19	06:05	103	12:02	71S	17:59	257	18:45
2024 Oct 27 (Sun)	05:19	06:05	103	12:02	71S	17:59	257	18:45
2024 Oct 28 (Mon)	05:19	06:05	103	12:02	70S	17:59	257	18:45
2024 Oct 29 (Tue)	05:19	06:05	104	12:02	70S	17:59	256	18:45
2024 Oct 30 (Wed)	05:19	06:05	104	12:02	70S	17:59	256	18:45
2024 Oct 31 (Thu)	05:19	06:06	104	12:02	70S	17:58	256	18:45
2024 Nov 01 (Fri)	05:19	06:06	105	12:02	69S	17:58	255	18:45
2024 Nov 02 (Sat)	05:19	06:06	105	12:02	69S	17:58	255	18:44
2024 Nov 03 (Sun)	05:20	06:06	105	12:02	69S	17:58	255	18:44
2024 Nov 04 (Mon)	05:20	06:06	105	12:02	68S	17:58	254	18:44
2024 Nov 05 (Tue)	05:20	06:06	106	12:02	68S	17:58	254	18:44
2024 Nov 06 (Wed)	05:20	06:07	106	12:02	68S	17:57	254	18:44
2024 Nov 07 (Thu)	05:20	06:07	106	12:02	67S	17:57	253	18:44
2024 Nov 08 (Fri)	05:20	06:07	107	12:02	67S	17:57	253	18:44
2024 Nov 09 (Sat)	05:20	06:07	107	12:02	67S	17:57	253	18:44
2024 Nov 10 (Sun)	05:20	06:07	107	12:02	66S	17:57	253	18:44
2024 Nov 11 (Mon)	05:21	06:08	108	12:02	66S	17:57	252	18:44
2024 Nov 12 (Tue)	05:21	06:08	108	12:03	66S	17:57	252	18:44
2024 Nov 13 (Wed)	05:21	06:08	108	12:03	66S	17:57	252	18:44
2024 Nov 14 (Thu)	05:21	06:08	108	12:03	65S	17:57	252	18:44
2024 Nov 15 (Fri)	05:21	06:09	109	12:03	65S	17:57	251	18:45
2024 Nov 16 (Sat)	05:22	06:09	109	12:03	65S	17:57	251	18:45
2024 Nov 17 (Sun)	05:22	06:09	109	12:03	65S	17:57	251	18:45
2024 Nov 18 (Mon)	05:22	06:10	109	12:04	64S	17:57	251	18:45

2024	Nov	19	(Tue)	05:22	06:10	110	12:04	64S	17:57	250	18:45
2024	Nov	20	(Wed)	05:23	06:10	110	12:04	64S	17:58	250	18:45
2024	Nov	21	(Thu)	05:23	06:11	110	12:04	64S	17:58	250	18:46
2024	Nov	22	(Fri)	05:23	06:11	110	12:05	64S	17:58	250	18:46
2024	Nov	23	(Sat)	05:24	06:12	110	12:05	63S	17:58	249	18:46
2024	Nov	24	(Sun)	05:24	06:12	111	12:05	63S	17:58	249	18:46
2024	Nov	25	(Mon)	05:24	06:12	111	12:05	63S	17:58	249	18:46
2024	Nov	26	(Tue)	05:25	06:13	111	12:06	63S	17:59	249	18:47
2024	Nov	27	(Wed)	05:25	06:13	111	12:06	63S	17:59	249	18:47
2024	Nov	28	(Thu)	05:25	06:14	111	12:06	62S	17:59	249	18:47
2024	Nov	29	(Fri)	05:26	06:14	112	12:07	62S	17:59	248	18:48
2024	Nov	30	(Sat)	05:26	06:14	112	12:07	62S	18:00	248	18:48
2024	Dec	01	(Sun)	05:27	06:15	112	12:07	62S	18:00	248	18:48
2024	Dec	02	(Mon)	05:27	06:15	112	12:08	62S	18:00	248	18:49
2024	Dec	03	(Tue)	05:27	06:16	112	12:08	62S	18:01	248	18:49
2024	Dec	04	(Wed)	05:28	06:16	112	12:09	61S	18:01	248	18:49
2024	Dec	05	(Thu)	05:28	06:17	112	12:09	61S	18:01	247	18:50
2024	Dec	06	(Fri)	05:29	06:17	113	12:10	61S	18:02	247	18:50
2024	Dec	07	(Sat)	05:29	06:18	113	12:10	61S	18:02	247	18:51
2024	Dec	08	(Sun)	05:30	06:18	113	12:10	61S	18:02	247	18:51
2024	Dec	09	(Mon)	05:30	06:19	113	12:11	61S	18:03	247	18:51
2024	Dec	10	(Tue)	05:31	06:19	113	12:11	61S	18:03	247	18:52
2024	Dec	11	(Wed)	05:31	06:20	113	12:12	61S	18:04	247	18:52
2024	Dec	12	(Thu)	05:32	06:20	113	12:12	61S	18:04	247	18:53
2024	Dec	13	(Fri)	05:32	06:21	113	12:13	61S	18:04	247	18:53
2024	Dec	14	(Sat)	05:33	06:21	113	12:13	61S	18:05	247	18:54
2024	Dec	15	(Sun)	05:33	06:22	113	12:14	60S	18:05	247	18:54
2024	Dec	16	(Mon)	05:34	06:22	113	12:14	60S	18:06	247	18:55
2024	Dec	17	(Tue)	05:34	06:23	113	12:15	60S	18:06	247	18:55
2024	Dec	18	(Wed)	05:34	06:23	113	12:15	60S	18:07	247	18:56
2024	Dec	19	(Thu)	05:35	06:24	113	12:16	60S	18:07	247	18:56
2024	Dec	20	(Fri)	05:35	06:24	114	12:16	60S	18:08	246	18:57
2024	Dec	21	(Sat)	05:36	06:25	114	12:17	60S	18:08	246	18:57
2024	Dec	22	(Sun)	05:36	06:25	114	12:17	60S	18:09	246	18:58
2024	Dec	23	(Mon)	05:37	06:26	114	12:18	60S	18:09	247	18:58
2024	Dec	24	(Tue)	05:37	06:26	113	12:18	60S	18:10	247	18:59
2024	Dec	25	(Wed)	05:38	06:27	113	12:19	60S	18:10	247	18:59
2024	Dec	26	(Thu)	05:38	06:27	113	12:19	60S	18:11	247	19:00
2024	Dec	27	(Fri)	05:39	06:28	113	12:20	60S	18:11	247	19:00
2024	Dec	28	(Sat)	05:39	06:28	113	12:20	61S	18:12	247	19:01
2024	Dec	29	(Sun)	05:40	06:29	113	12:21	61S	18:12	247	19:01
2024	Dec	30	(Mon)	05:40	06:29	113	12:21	61S	18:13	247	19:02
2024	Dec	31	(Tue)	05:41	06:30	113	12:21	61S	18:13	247	19:02

Sun

VTDS

Location: E100°24'00.0", N 6°56'00.0", 90m
(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)	06:07	06:30	113	12:22 61S	18:14 247		18:36
2024	Jan	02	(Tue)	06:08	06:30	113	12:22 61S	18:14 247		18:37
2024	Jan	03	(Wed)	06:08	06:31	113	12:23 61S	18:15 247		18:37
2024	Jan	04	(Thu)	06:08	06:31	113	12:23 61S	18:15 247		18:38
2024	Jan	05	(Fri)	06:09	06:31	113	12:23 61S	18:16 247		18:38
2024	Jan	06	(Sat)	06:09	06:32	113	12:24 61S	18:16 247		18:39
2024	Jan	07	(Sun)	06:10	06:32	113	12:24 61S	18:17 248		18:39
2024	Jan	08	(Mon)	06:10	06:32	112	12:25 61S	18:17 248		18:40
2024	Jan	09	(Tue)	06:10	06:33	112	12:25 62S	18:18 248		18:40
2024	Jan	10	(Wed)	06:11	06:33	112	12:26 62S	18:18 248		18:40
2024	Jan	11	(Thu)	06:11	06:34	112	12:26 62S	18:19 248		18:41

2024	Jan	12	(Fri)	06:11	06:34	112	12:26	62S	18:19	248	18:41
2024	Jan	13	(Sat)	06:12	06:34	112	12:27	62S	18:20	248	18:42
2024	Jan	14	(Sun)	06:12	06:34	111	12:27	62S	18:20	249	18:42
2024	Jan	15	(Mon)	06:12	06:35	111	12:28	63S	18:20	249	18:43
2024	Jan	16	(Tue)	06:13	06:35	111	12:28	63S	18:21	249	18:43
2024	Jan	17	(Wed)	06:13	06:35	111	12:28	63S	18:21	249	18:44
2024	Jan	18	(Thu)	06:13	06:35	111	12:29	63S	18:22	249	18:44
2024	Jan	19	(Fri)	06:13	06:36	111	12:29	63S	18:22	250	18:44
2024	Jan	20	(Sat)	06:14	06:36	110	12:29	64S	18:23	250	18:45
2024	Jan	21	(Sun)	06:14	06:36	110	12:29	64S	18:23	250	18:45
2024	Jan	22	(Mon)	06:14	06:36	110	12:30	64S	18:23	250	18:45
2024	Jan	23	(Tue)	06:14	06:36	110	12:30	64S	18:24	250	18:46
2024	Jan	24	(Wed)	06:14	06:36	109	12:30	64S	18:24	251	18:46
2024	Jan	25	(Thu)	06:15	06:37	109	12:31	65S	18:25	251	18:47
2024	Jan	26	(Fri)	06:15	06:37	109	12:31	65S	18:25	251	18:47
2024	Jan	27	(Sat)	06:15	06:37	109	12:31	65S	18:25	251	18:47
2024	Jan	28	(Sun)	06:15	06:37	108	12:31	65S	18:26	252	18:47
2024	Jan	29	(Mon)	06:15	06:37	108	12:31	66S	18:26	252	18:48
2024	Jan	30	(Tue)	06:15	06:37	108	12:32	66S	18:26	252	18:48
2024	Jan	31	(Wed)	06:15	06:37	108	12:32	66S	18:26	253	18:48
2024	Feb	01	(Thu)	06:15	06:37	107	12:32	67S	18:27	253	18:49
2024	Feb	02	(Fri)	06:15	06:37	107	12:32	67S	18:27	253	18:49
2024	Feb	03	(Sat)	06:15	06:37	107	12:32	67S	18:27	253	18:49
2024	Feb	04	(Sun)	06:15	06:37	106	12:32	67S	18:28	254	18:49
2024	Feb	05	(Mon)	06:15	06:37	106	12:32	68S	18:28	254	18:49
2024	Feb	06	(Tue)	06:15	06:37	106	12:32	68S	18:28	254	18:50
2024	Feb	07	(Wed)	06:15	06:37	106	12:32	68S	18:28	255	18:50
2024	Feb	08	(Thu)	06:15	06:37	105	12:33	69S	18:28	255	18:50
2024	Feb	09	(Fri)	06:15	06:36	105	12:33	69S	18:29	255	18:50
2024	Feb	10	(Sat)	06:15	06:36	105	12:33	69S	18:29	256	18:50
2024	Feb	11	(Sun)	06:15	06:36	104	12:33	70S	18:29	256	18:50
2024	Feb	12	(Mon)	06:15	06:36	104	12:33	70S	18:29	256	18:51
2024	Feb	13	(Tue)	06:15	06:36	104	12:33	70S	18:29	257	18:51
2024	Feb	14	(Wed)	06:14	06:36	103	12:33	71S	18:30	257	18:51
2024	Feb	15	(Thu)	06:14	06:36	103	12:33	71S	18:30	257	18:51
2024	Feb	16	(Fri)	06:14	06:35	103	12:32	71S	18:30	258	18:51
2024	Feb	17	(Sat)	06:14	06:35	102	12:32	72S	18:30	258	18:51
2024	Feb	18	(Sun)	06:14	06:35	102	12:32	72S	18:30	258	18:51
2024	Feb	19	(Mon)	06:13	06:35	102	12:32	72S	18:30	259	18:51
2024	Feb	20	(Tue)	06:13	06:34	101	12:32	73S	18:30	259	18:51
2024	Feb	21	(Wed)	06:13	06:34	101	12:32	73S	18:30	259	18:51
2024	Feb	22	(Thu)	06:13	06:34	100	12:32	73S	18:30	260	18:51
2024	Feb	23	(Fri)	06:12	06:33	100	12:32	74S	18:30	260	18:51
2024	Feb	24	(Sat)	06:12	06:33	100	12:32	74S	18:30	260	18:51
2024	Feb	25	(Sun)	06:12	06:33	99	12:32	75S	18:30	261	18:51
2024	Feb	26	(Mon)	06:11	06:32	99	12:31	75S	18:30	261	18:51
2024	Feb	27	(Tue)	06:11	06:32	99	12:31	75S	18:30	262	18:51
2024	Feb	28	(Wed)	06:11	06:32	98	12:31	76S	18:30	262	18:51
2024	Feb	29	(Thu)	06:10	06:31	98	12:31	76S	18:30	262	18:51
2024	Mar	01	(Fri)	06:10	06:31	97	12:31	76S	18:30	263	18:51
2024	Mar	02	(Sat)	06:10	06:31	97	12:30	77S	18:30	263	18:51
2024	Mar	03	(Sun)	06:09	06:30	97	12:30	77S	18:30	264	18:51
2024	Mar	04	(Mon)	06:09	06:30	96	12:30	78S	18:30	264	18:51
2024	Mar	05	(Tue)	06:08	06:29	96	12:30	78S	18:30	264	18:51
2024	Mar	06	(Wed)	06:08	06:29	96	12:30	78S	18:30	265	18:51
2024	Mar	07	(Thu)	06:08	06:29	95	12:29	79S	18:30	265	18:51
2024	Mar	08	(Fri)	06:07	06:28	95	12:29	79S	18:30	265	18:51
2024	Mar	09	(Sat)	06:07	06:28	94	12:29	79S	18:30	266	18:51
2024	Mar	10	(Sun)	06:06	06:27	94	12:29	80S	18:30	266	18:51
2024	Mar	11	(Mon)	06:06	06:27	94	12:28	80S	18:30	267	18:51
2024	Mar	12	(Tue)	06:06	06:26	93	12:28	81S	18:30	267	18:51
2024	Mar	13	(Wed)	06:05	06:26	93	12:28	81S	18:30	267	18:51
2024	Mar	14	(Thu)	06:05	06:25	92	12:28	81S	18:30	268	18:51
2024	Mar	15	(Fri)	06:04	06:25	92	12:27	82S	18:30	268	18:50
2024	Mar	16	(Sat)	06:04	06:24	92	12:27	82S	18:30	269	18:50
2024	Mar	17	(Sun)	06:03	06:24	91	12:27	83S	18:29	269	18:50
2024	Mar	18	(Mon)	06:03	06:24	91	12:26	83S	18:29	269	18:50

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

2024	May	25	(Sat)	05:39	06:01	69	12:15	77N	18:30	291	18:52
2024	May	26	(Sun)	05:39	06:01	69	12:15	76N	18:30	292	18:52
2024	May	27	(Mon)	05:39	06:01	68	12:16	76N	18:30	292	18:53
2024	May	28	(Tue)	05:39	06:01	68	12:16	76N	18:30	292	18:53
2024	May	29	(Wed)	05:39	06:01	68	12:16	76N	18:31	292	18:53
2024	May	30	(Thu)	05:39	06:01	68	12:16	76N	18:31	292	18:53
2024	May	31	(Fri)	05:39	06:01	68	12:16	76N	18:31	292	18:54
2024	Jun	01	(Sat)	05:39	06:01	68	12:16	76N	18:31	292	18:54
2024	Jun	02	(Sun)	05:39	06:01	67	12:16	75N	18:32	293	18:54
2024	Jun	03	(Mon)	05:39	06:02	67	12:17	75N	18:32	293	18:54
2024	Jun	04	(Tue)	05:39	06:02	67	12:17	75N	18:32	293	18:55
2024	Jun	05	(Wed)	05:39	06:02	67	12:17	75N	18:32	293	18:55
2024	Jun	06	(Thu)	05:39	06:02	67	12:17	75N	18:32	293	18:55
2024	Jun	07	(Fri)	05:39	06:02	67	12:17	75N	18:33	293	18:55
2024	Jun	08	(Sat)	05:39	06:02	67	12:18	75N	18:33	293	18:56
2024	Jun	09	(Sun)	05:40	06:02	67	12:18	75N	18:33	293	18:56
2024	Jun	10	(Mon)	05:40	06:02	67	12:18	75N	18:33	293	18:56
2024	Jun	11	(Tue)	05:40	06:03	67	12:18	75N	18:34	293	18:57
2024	Jun	12	(Wed)	05:40	06:03	67	12:18	74N	18:34	293	18:57
2024	Jun	13	(Thu)	05:40	06:03	66	12:19	74N	18:34	294	18:57
2024	Jun	14	(Fri)	05:40	06:03	66	12:19	74N	18:34	294	18:57
2024	Jun	15	(Sat)	05:40	06:03	66	12:19	74N	18:35	294	18:58
2024	Jun	16	(Sun)	05:41	06:03	66	12:19	74N	18:35	294	18:58
2024	Jun	17	(Mon)	05:41	06:04	66	12:19	74N	18:35	294	18:58
2024	Jun	18	(Tue)	05:41	06:04	66	12:20	74N	18:35	294	18:58
2024	Jun	19	(Wed)	05:41	06:04	66	12:20	74N	18:36	294	18:58
2024	Jun	20	(Thu)	05:41	06:04	66	12:20	74N	18:36	294	18:59
2024	Jun	21	(Fri)	05:42	06:04	66	12:20	74N	18:36	294	18:59
2024	Jun	22	(Sat)	05:42	06:05	66	12:20	74N	18:36	294	18:59
2024	Jun	23	(Sun)	05:42	06:05	66	12:21	74N	18:36	294	18:59
2024	Jun	24	(Mon)	05:42	06:05	66	12:21	74N	18:37	294	18:59
2024	Jun	25	(Tue)	05:43	06:05	66	12:21	74N	18:37	294	19:00
2024	Jun	26	(Wed)	05:43	06:06	66	12:21	74N	18:37	294	19:00
2024	Jun	27	(Thu)	05:43	06:06	66	12:22	74N	18:37	294	19:00
2024	Jun	28	(Fri)	05:43	06:06	66	12:22	74N	18:37	294	19:00
2024	Jun	29	(Sat)	05:44	06:06	66	12:22	74N	18:38	293	19:00
2024	Jun	30	(Sun)	05:44	06:07	67	12:22	75N	18:38	293	19:01
2024	Jul	01	(Mon)	05:44	06:07	67	12:22	75N	18:38	293	19:01
2024	Jul	02	(Tue)	05:44	06:07	67	12:23	75N	18:38	293	19:01
2024	Jul	03	(Wed)	05:45	06:07	67	12:23	75N	18:38	293	19:01
2024	Jul	04	(Thu)	05:45	06:07	67	12:23	75N	18:38	293	19:01
2024	Jul	05	(Fri)	05:45	06:08	67	12:23	75N	18:38	293	19:01
2024	Jul	06	(Sat)	05:45	06:08	67	12:23	75N	18:39	293	19:01
2024	Jul	07	(Sun)	05:45	06:08	67	12:23	75N	18:39	293	19:01
2024	Jul	08	(Mon)	05:46	06:08	67	12:24	75N	18:39	293	19:01
2024	Jul	09	(Tue)	05:46	06:09	67	12:24	75N	18:39	293	19:01
2024	Jul	10	(Wed)	05:46	06:09	68	12:24	75N	18:39	292	19:01
2024	Jul	11	(Thu)	05:46	06:09	68	12:24	76N	18:39	292	19:01
2024	Jul	12	(Fri)	05:47	06:09	68	12:24	76N	18:39	292	19:01
2024	Jul	13	(Sat)	05:47	06:09	68	12:24	76N	18:39	292	19:01
2024	Jul	14	(Sun)	05:47	06:10	68	12:24	76N	18:39	292	19:01
2024	Jul	15	(Mon)	05:47	06:10	68	12:24	76N	18:39	292	19:01
2024	Jul	16	(Tue)	05:48	06:10	68	12:25	76N	18:39	292	19:01
2024	Jul	17	(Wed)	05:48	06:10	69	12:25	77N	18:39	291	19:01
2024	Jul	18	(Thu)	05:48	06:10	69	12:25	77N	18:39	291	19:01
2024	Jul	19	(Fri)	05:48	06:11	69	12:25	77N	18:39	291	19:01
2024	Jul	20	(Sat)	05:48	06:11	69	12:25	77N	18:39	291	19:01
2024	Jul	21	(Sun)	05:49	06:11	69	12:25	77N	18:39	291	19:01
2024	Jul	22	(Mon)	05:49	06:11	70	12:25	77N	18:39	290	19:01
2024	Jul	23	(Tue)	05:49	06:11	70	12:25	78N	18:39	290	19:01
2024	Jul	24	(Wed)	05:49	06:11	70	12:25	78N	18:38	290	19:01
2024	Jul	25	(Thu)	05:49	06:11	70	12:25	78N	18:38	290	19:01
2024	Jul	26	(Fri)	05:49	06:12	70	12:25	78N	18:38	290	19:00
2024	Jul	27	(Sat)	05:50	06:12	71	12:25	79N	18:38	289	19:00
2024	Jul	28	(Sun)	05:50	06:12	71	12:25	79N	18:38	289	19:00
2024	Jul	29	(Mon)	05:50	06:12	71	12:25	79N	18:38	289	19:00
2024	Jul	30	(Tue)	05:50	06:12	71	12:25	79N	18:38	289	19:00

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

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

2024	Dec	12	(Thu)	05:58	06:20	113	12:12	61S	18:04	247	18:27
2024	Dec	13	(Fri)	05:58	06:21	113	12:13	61S	18:04	247	18:27
2024	Dec	14	(Sat)	05:59	06:21	113	12:13	61S	18:05	247	18:28
2024	Dec	15	(Sun)	05:59	06:22	113	12:14	60S	18:05	247	18:28
2024	Dec	16	(Mon)	06:00	06:22	113	12:14	60S	18:06	247	18:28
2024	Dec	17	(Tue)	06:00	06:23	113	12:15	60S	18:06	247	18:29
2024	Dec	18	(Wed)	06:01	06:23	113	12:15	60S	18:07	247	18:29
2024	Dec	19	(Thu)	06:01	06:24	113	12:16	60S	18:07	247	18:30
2024	Dec	20	(Fri)	06:02	06:24	114	12:16	60S	18:08	246	18:30
2024	Dec	21	(Sat)	06:02	06:25	114	12:17	60S	18:08	246	18:31
2024	Dec	22	(Sun)	06:03	06:25	114	12:17	60S	18:09	246	18:31
2024	Dec	23	(Mon)	06:03	06:26	114	12:18	60S	18:09	247	18:32
2024	Dec	24	(Tue)	06:04	06:26	113	12:18	60S	18:10	247	18:32
2024	Dec	25	(Wed)	06:04	06:27	113	12:19	60S	18:10	247	18:33
2024	Dec	26	(Thu)	06:05	06:27	113	12:19	60S	18:11	247	18:33
2024	Dec	27	(Fri)	06:05	06:28	113	12:20	60S	18:11	247	18:34
2024	Dec	28	(Sat)	06:06	06:28	113	12:20	61S	18:12	247	18:34
2024	Dec	29	(Sun)	06:06	06:29	113	12:21	61S	18:12	247	18:35
2024	Dec	30	(Mon)	06:07	06:29	113	12:21	61S	18:13	247	18:35
2024	Dec	31	(Tue)	06:07	06:30	113	12:21	61S	18:13	247	18:36

Moon

VTDS

Location: E100°24'00.0", N 6°56'00.0", 90m
(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)	22:36	81		04:10	84N		10:25	282	
2024	Jan	02	(Tue)	23:18	86		04:50	90N		11:03	276	
2024	Jan	03	(Wed)	24:00	92		05:29	86S		11:39	271	
2024	Jan	04	(Thu)				06:08	80S		12:15	265	
2024	Jan	05	(Fri)	00:43	98		06:49	74S		12:53	259	
2024	Jan	06	(Sat)	01:28	104		07:31	69S		13:34	254	
2024	Jan	07	(Sun)	02:16	109		08:18	64S		14:19	249	
2024	Jan	08	(Mon)	03:09	113		09:10	59S		15:10	245	
2024	Jan	09	(Tue)	04:07	117		10:07	56S		16:06	242	
2024	Jan	10	(Wed)	05:09	118		11:09	55S		17:08	242	
2024	Jan	11	(Thu)	06:12	118		12:12	56S		18:13	243	
2024	Jan	12	(Fri)	07:14	116		13:15	59S		19:17	246	
2024	Jan	13	(Sat)	08:12	111		14:15	63S		20:19	251	
2024	Jan	14	(Sun)	09:05	106		15:10	70S		21:16	258	
2024	Jan	15	(Mon)	09:54	99		16:01	76S		22:10	265	
2024	Jan	16	(Tue)	10:40	92		16:50	84S		23:02	272	
2024	Jan	17	(Wed)	11:24	85		17:38	91S		23:54	278	
2024	Jan	18	(Thu)	12:09	78		18:26	84N				
2024	Jan	19	(Fri)	12:55	73		19:15	79N		00:45	285	
2024	Jan	20	(Sat)	13:43	68		20:07	74N		01:38	290	
2024	Jan	21	(Sun)	14:34	64		21:01	71N		02:33	294	
2024	Jan	22	(Mon)	15:27	62		21:56	69N		03:29	297	
2024	Jan	23	(Tue)	16:23	62		22:51	69N		04:25	298	
2024	Jan	24	(Wed)	17:17	63		23:45	71N		05:20	298	
2024	Jan	25	(Thu)	18:10	65					06:11	296	
2024	Jan	26	(Fri)	19:00	69		00:35	74N		06:59	293	
2024	Jan	27	(Sat)	19:47	74		01:22	78N		07:43	289	
2024	Jan	28	(Sun)	20:32	79		02:06	83N		08:23	284	
2024	Jan	29	(Mon)	21:14	84		02:47	88N		09:01	278	
2024	Jan	30	(Tue)	21:56	90		03:26	88S		09:37	273	
2024	Jan	31	(Wed)	22:38	96		04:05	82S		10:13	267	
2024	Feb	01	(Thu)	23:21	102		04:44	76S		10:50	261	
2024	Feb	02	(Fri)				05:25	71S		11:28	256	
2024	Feb	03	(Sat)	00:07	107		06:09	65S		12:10	251	
2024	Feb	04	(Sun)	00:57	112		06:57	61S		12:57	246	

2024 Feb 05 (Mon)	01:51 115	07:50 57S	13:49 243
2024 Feb 06 (Tue)	02:50 118	08:49 55S	14:48 242
2024 Feb 07 (Wed)	03:51 119	09:51 55S	15:50 242
2024 Feb 08 (Thu)	04:54 117	10:54 57S	16:55 244
2024 Feb 09 (Fri)	05:54 114	11:56 61S	17:59 249
2024 Feb 10 (Sat)	06:50 109	12:54 66S	18:59 254
2024 Feb 11 (Sun)	07:42 102	13:49 73S	19:57 261
2024 Feb 12 (Mon)	08:31 95	14:41 81S	20:52 269
2024 Feb 13 (Tue)	09:18 88	15:31 88S	21:45 276
2024 Feb 14 (Wed)	10:04 81	16:20 86N	22:39 283
2024 Feb 15 (Thu)	10:51 74	17:11 80N	23:33 289
2024 Feb 16 (Fri)	11:39 69	18:03 75N	
2024 Feb 17 (Sat)	12:30 65	18:57 72N	00:28 293
2024 Feb 18 (Sun)	13:23 62	19:52 69N	01:24 297
2024 Feb 19 (Mon)	14:18 61	20:47 69N	02:21 298
2024 Feb 20 (Tue)	15:13 62	21:41 70N	03:16 298
2024 Feb 21 (Wed)	16:06 64	22:32 73N	04:08 297
2024 Feb 22 (Thu)	16:56 68	23:19 76N	04:56 294
2024 Feb 23 (Fri)	17:44 72		05:41 290
2024 Feb 24 (Sat)	18:29 77	00:04 81N	06:22 286
2024 Feb 25 (Sun)	19:12 83	00:45 86N	07:00 280
2024 Feb 26 (Mon)	19:54 88	01:25 90S	07:37 275
2024 Feb 27 (Tue)	20:36 94	02:04 84S	08:13 269
2024 Feb 28 (Wed)	21:18 100	02:43 78S	08:49 263
2024 Feb 29 (Thu)	22:03 105	03:23 72S	09:27 257
2024 Mar 01 (Fri)	22:50 110	04:05 67S	10:07 252
2024 Mar 02 (Sat)	23:42 114	04:51 62S	10:51 248
2024 Mar 03 (Sun)		05:41 58S	11:40 244
2024 Mar 04 (Mon)	00:37 117	06:35 56S	12:34 242
2024 Mar 05 (Tue)	01:35 119	07:34 55S	13:33 241
2024 Mar 06 (Wed)	02:36 118	08:35 56S	14:34 243
2024 Mar 07 (Thu)	03:35 116	09:36 58S	15:37 246
2024 Mar 08 (Fri)	04:32 112	10:35 63S	16:38 251
2024 Mar 09 (Sat)	05:26 106	11:31 69S	17:37 257
2024 Mar 10 (Sun)	06:17 99	12:25 77S	18:34 265
2024 Mar 11 (Mon)	07:05 91	13:16 84S	19:30 272
2024 Mar 12 (Tue)	07:52 84	14:08 90N	20:25 280
2024 Mar 13 (Wed)	08:40 77	14:59 83N	21:20 286
2024 Mar 14 (Thu)	09:30 71	15:53 77N	22:17 292
2024 Mar 15 (Fri)	10:22 66	16:48 73N	23:15 296
2024 Mar 16 (Sat)	11:16 63	17:45 70N	
2024 Mar 17 (Sun)	12:12 61	18:41 69N	00:14 298
2024 Mar 18 (Mon)	13:08 62	19:36 69N	01:10 299
2024 Mar 19 (Tue)	14:02 63	20:28 72N	02:04 298
2024 Mar 20 (Wed)	14:53 66	21:17 75N	02:54 295
2024 Mar 21 (Thu)	15:41 70	22:02 79N	03:40 292
2024 Mar 22 (Fri)	16:27 75	22:45 84N	04:21 287
2024 Mar 23 (Sat)	17:11 81	23:25 90N	05:00 282
2024 Mar 24 (Sun)	17:53 86		05:37 276
2024 Mar 25 (Mon)	18:34 92	00:04 86S	06:14 271
2024 Mar 26 (Tue)	19:17 98	00:43 80S	06:50 265
2024 Mar 27 (Wed)	20:01 104	01:23 74S	07:27 259
2024 Mar 28 (Thu)	20:47 109	02:04 69S	08:06 254
2024 Mar 29 (Fri)	21:37 113	02:49 64S	08:49 249
2024 Mar 30 (Sat)	22:31 116	03:37 59S	09:36 245
2024 Mar 31 (Sun)	23:27 118	04:29 56S	10:27 242
2024 Apr 01 (Mon)		05:25 55S	11:23 241
2024 Apr 02 (Tue)	00:25 119	06:24 55S	12:22 242
2024 Apr 03 (Wed)	01:23 117	07:23 57S	13:23 244
2024 Apr 04 (Thu)	02:20 114	08:20 61S	14:23 248
2024 Apr 05 (Fri)	03:13 109	09:16 66S	15:21 254
2024 Apr 06 (Sat)	04:03 103	10:09 73S	16:17 261
2024 Apr 07 (Sun)	04:51 95	11:01 80S	17:12 268
2024 Apr 08 (Mon)	05:39 88	11:52 88S	18:07 276
2024 Apr 09 (Tue)	06:26 81	12:43 86N	19:02 283
2024 Apr 10 (Wed)	07:16 74	13:37 80N	20:00 289
2024 Apr 11 (Thu)	08:08 68	14:33 75N	20:59 294

2024 Apr 12 (Fri)	09:03	64	15:31	71N	22:00	297
2024 Apr 13 (Sat)	10:00	62	16:30	69N	22:59	299
2024 Apr 14 (Sun)	10:58	61	17:27	69N	23:56	298
2024 Apr 15 (Mon)	11:54	62	18:22	71N		
2024 Apr 16 (Tue)	12:47	65	19:13	74N	00:49	296
2024 Apr 17 (Wed)	13:37	69	19:59	78N	01:36	293
2024 Apr 18 (Thu)	14:24	74	20:43	82N	02:20	289
2024 Apr 19 (Fri)	15:08	79	21:24	88N	03:00	284
2024 Apr 20 (Sat)	15:51	84	22:03	88S	03:37	278
2024 Apr 21 (Sun)	16:32	90	22:42	82S	04:14	273
2024 Apr 22 (Mon)	17:15	96	23:21	76S	04:50	267
2024 Apr 23 (Tue)	17:58	102			05:26	261
2024 Apr 24 (Wed)	18:44	107	00:02	70S	06:05	255
2024 Apr 25 (Thu)	19:34	112	00:46	65S	06:47	250
2024 Apr 26 (Fri)	20:26	116	01:34	61S	07:33	246
2024 Apr 27 (Sat)	21:22	118	02:25	57S	08:24	243
2024 Apr 28 (Sun)	22:20	119	03:21	55S	09:19	241
2024 Apr 29 (Mon)	23:18	118	04:18	55S	10:17	241
2024 Apr 30 (Tue)			05:16	56S	11:16	243
2024 May 01 (Wed)	00:13	115	06:13	59S	12:14	247
2024 May 02 (Thu)	01:06	111	07:08	64S	13:11	252
2024 May 03 (Fri)	01:56	105	08:00	70S	14:06	258
2024 May 04 (Sat)	02:43	98	08:50	77S	14:59	265
2024 May 05 (Sun)	03:29	91	09:40	84S	15:52	272
2024 May 06 (Mon)	04:15	84	10:30	90N	16:46	279
2024 May 07 (Tue)	05:02	77	11:21	83N	17:42	286
2024 May 08 (Wed)	05:53	71	12:16	77N	18:41	292
2024 May 09 (Thu)	06:47	66	13:13	73N	19:41	296
2024 May 10 (Fri)	07:44	63	14:13	70N	20:43	298
2024 May 11 (Sat)	08:43	61	15:13	69N	21:42	299
2024 May 12 (Sun)	09:41	62	16:10	70N	22:38	297
2024 May 13 (Mon)	10:37	64	17:04	72N	23:29	294
2024 May 14 (Tue)	11:30	67	17:53	76N		
2024 May 15 (Wed)	12:19	72	18:39	81N	00:15	290
2024 May 16 (Thu)	13:04	77	19:21	86N	00:57	286
2024 May 17 (Fri)	13:47	82	20:00	90S	01:36	280
2024 May 18 (Sat)	14:29	88	20:39	84S	02:12	275
2024 May 19 (Sun)	15:11	94	21:18	78S	02:48	269
2024 May 20 (Mon)	15:54	100	21:59	72S	03:25	263
2024 May 21 (Tue)	16:39	105	22:42	67S	04:03	258
2024 May 22 (Wed)	17:27	110	23:29	62S	04:44	252
2024 May 23 (Thu)	18:20	114			05:29	248
2024 May 24 (Fri)	19:15	117	00:19	58S	06:18	244
2024 May 25 (Sat)	20:14	119	01:14	56S	07:12	242
2024 May 26 (Sun)	21:12	118	02:12	55S	08:10	241
2024 May 27 (Mon)	22:09	116	03:11	56S	09:10	243
2024 May 28 (Tue)	23:03	112	04:09	58S	10:10	246
2024 May 29 (Wed)	23:53	107	05:04	63S	11:07	250
2024 May 30 (Thu)			05:57	68S	12:02	256
2024 May 31 (Fri)	00:40	101	06:46	75S	12:54	263
2024 Jun 01 (Sat)	01:25	94	07:34	82S	13:46	270
2024 Jun 02 (Sun)	02:09	87	08:22	89S	14:37	277
2024 Jun 03 (Mon)	02:55	80	09:12	86N	15:31	284
2024 Jun 04 (Tue)	03:42	73	10:04	80N	16:26	289
2024 Jun 05 (Wed)	04:34	68	10:59	74N	17:25	294
2024 Jun 06 (Thu)	05:29	64	11:57	71N	18:26	297
2024 Jun 07 (Fri)	06:27	62	12:57	69N	19:27	299
2024 Jun 08 (Sat)	07:26	62	13:56	69N	20:25	298
2024 Jun 09 (Sun)	08:24	63	14:52	71N	21:19	296
2024 Jun 10 (Mon)	09:19	66	15:44	74N	22:08	292
2024 Jun 11 (Tue)	10:10	70	16:32	79N	22:52	288
2024 Jun 12 (Wed)	10:58	75	17:16	84N	23:32	282
2024 Jun 13 (Thu)	11:42	80	17:56	89N		
2024 Jun 14 (Fri)	12:24	86	18:36	86S	00:09	277
2024 Jun 15 (Sat)	13:06	92	19:15	80S	00:46	271
2024 Jun 16 (Sun)	13:48	98	19:54	75S	01:22	265
2024 Jun 17 (Mon)	14:32	103	20:36	69S	01:59	260

2024 Jun 18 (Tue)	15:19 108	21:21 64S	02:38 254
2024 Jun 19 (Wed)	16:10 113	22:10 60S	03:21 249
2024 Jun 20 (Thu)	17:04 116	23:04 57S	04:09 245
2024 Jun 21 (Fri)	18:03 118		05:02 243
2024 Jun 22 (Sat)	19:02 118	00:01 55S	06:00 241
2024 Jun 23 (Sun)	20:02 117	01:01 55S	07:01 242
2024 Jun 24 (Mon)	20:58 113	02:01 57S	08:02 245
2024 Jun 25 (Tue)	21:50 108	02:59 61S	09:01 249
2024 Jun 26 (Wed)	22:38 102	03:53 67S	09:57 254
2024 Jun 27 (Thu)	23:24 96	04:44 73S	10:51 261
2024 Jun 28 (Fri)		05:32 80S	11:43 268
2024 Jun 29 (Sat)	00:08 89	06:20 87S	12:34 275
2024 Jun 30 (Sun)	00:52 82	07:08 88N	13:26 282
2024 Jul 01 (Mon)	01:38 75	07:58 81N	14:19 288
2024 Jul 02 (Tue)	02:27 70	08:51 76N	15:16 293
2024 Jul 03 (Wed)	03:20 65	09:46 72N	16:14 296
2024 Jul 04 (Thu)	04:16 62	10:45 70N	17:14 298
2024 Jul 05 (Fri)	05:14 61	11:43 69N	18:13 298
2024 Jul 06 (Sat)	06:12 62	12:41 70N	19:09 297
2024 Jul 07 (Sun)	07:08 65	13:35 73N	19:59 294
2024 Jul 08 (Mon)	08:01 68	14:24 77N	20:46 289
2024 Jul 09 (Tue)	08:50 73	15:10 82N	21:27 284
2024 Jul 10 (Wed)	09:36 78	15:52 87N	22:06 279
2024 Jul 11 (Thu)	10:19 84	16:32 88S	22:43 273
2024 Jul 12 (Fri)	11:01 90	17:11 83S	23:19 267
2024 Jul 13 (Sat)	11:43 95	17:50 77S	23:55 262
2024 Jul 14 (Sun)	12:26 101	18:30 71S	
2024 Jul 15 (Mon)	13:11 106	19:13 66S	00:33 256
2024 Jul 16 (Tue)	13:59 111	20:00 61S	01:14 251
2024 Jul 17 (Wed)	14:51 115	20:51 58S	01:59 247
2024 Jul 18 (Thu)	15:48 118	21:47 55S	02:50 244
2024 Jul 19 (Fri)	16:47 119	22:46 55S	03:45 242
2024 Jul 20 (Sat)	17:48 118	23:47 56S	04:45 242
2024 Jul 21 (Sun)	18:46 115		05:47 243
2024 Jul 22 (Mon)	19:41 110	00:47 59S	06:49 247
2024 Jul 23 (Tue)	20:32 105	01:44 64S	07:48 252
2024 Jul 24 (Wed)	21:20 98	02:37 71S	08:44 259
2024 Jul 25 (Thu)	22:06 91	03:28 78S	09:38 266
2024 Jul 26 (Fri)	22:51 84	04:17 85S	10:30 273
2024 Jul 27 (Sat)	23:37 77	05:06 90N	11:22 280
2024 Jul 28 (Sun)		05:55 83N	12:15 286
2024 Jul 29 (Mon)	00:24 71	06:47 77N	13:11 292
2024 Jul 30 (Tue)	01:15 66	07:41 73N	14:08 296
2024 Jul 31 (Wed)	02:10 63	08:38 70N	15:07 298
2024 Aug 01 (Thu)	03:06 61	09:36 69N	16:05 299
2024 Aug 02 (Fri)	04:04 62	10:33 69N	17:01 298
2024 Aug 03 (Sat)	05:00 63	11:27 72N	17:53 295
2024 Aug 04 (Sun)	05:54 67	12:18 75N	18:41 291
2024 Aug 05 (Mon)	06:44 71	13:05 80N	19:24 286
2024 Aug 06 (Tue)	07:31 76	13:48 85N	20:03 281
2024 Aug 07 (Wed)	08:15 82	14:29 91S	20:41 275
2024 Aug 08 (Thu)	08:57 88	15:08 85S	21:17 269
2024 Aug 09 (Fri)	09:39 93	15:47 79S	21:53 264
2024 Aug 10 (Sat)	10:21 99	16:26 73S	22:30 258
2024 Aug 11 (Sun)	11:05 105	17:07 68S	23:09 253
2024 Aug 12 (Mon)	11:51 110	17:52 63S	23:52 248
2024 Aug 13 (Tue)	12:40 114	18:40 59S	
2024 Aug 14 (Wed)	13:34 117	19:33 56S	00:39 245
2024 Aug 15 (Thu)	14:31 119	20:30 55S	01:31 242
2024 Aug 16 (Fri)	15:31 119	21:29 55S	02:28 241
2024 Aug 17 (Sat)	16:30 117	22:30 58S	03:29 242
2024 Aug 18 (Sun)	17:27 113	23:28 62S	04:30 245
2024 Aug 19 (Mon)	18:20 107		05:31 250
2024 Aug 20 (Tue)	19:11 101	00:24 68S	06:30 256
2024 Aug 21 (Wed)	19:58 94	01:17 74S	07:26 263
2024 Aug 22 (Thu)	20:45 86	02:09 82S	08:20 270
2024 Aug 23 (Fri)	21:32 79	02:59 89S	09:14 277

2024 Aug 24 (Sat)	22:20	73	03:49	85N	10:09	284
2024 Aug 25 (Sun)	23:11	67	04:42	79N	11:05	290
2024 Aug 26 (Mon)			05:36	74N	12:03	295
2024 Aug 27 (Tue)	00:05	64	06:33	70N	13:02	298
2024 Aug 28 (Wed)	01:02	62	07:31	69N	14:01	299
2024 Aug 29 (Thu)	01:59	61	08:28	69N	14:57	298
2024 Aug 30 (Fri)	02:55	63	09:23	71N	15:50	296
2024 Aug 31 (Sat)	03:49	65	10:14	74N	16:38	293
2024 Sep 01 (Sun)	04:40	69	11:02	78N	17:22	288
2024 Sep 02 (Mon)	05:28	74	11:46	83N	18:02	283
2024 Sep 03 (Tue)	06:12	80	12:27	89N	18:40	277
2024 Sep 04 (Wed)	06:55	86	13:06	87S	19:16	271
2024 Sep 05 (Thu)	07:37	91	13:45	81S	19:52	266
2024 Sep 06 (Fri)	08:18	97	14:24	75S	20:29	260
2024 Sep 07 (Sat)	09:01	103	15:05	69S	21:07	255
2024 Sep 08 (Sun)	09:46	108	15:47	64S	21:48	250
2024 Sep 09 (Mon)	10:34	112	16:33	60S	22:32	246
2024 Sep 10 (Tue)	11:25	116	17:23	57S	23:21	243
2024 Sep 11 (Wed)	12:19	118	18:17	55S		
2024 Sep 12 (Thu)	13:16	119	19:14	55S	00:15	241
2024 Sep 13 (Fri)	14:14	118	20:13	56S	01:13	241
2024 Sep 14 (Sat)	15:11	115	21:11	59S	02:12	243
2024 Sep 15 (Sun)	16:05	110	22:08	64S	03:12	247
2024 Sep 16 (Mon)	16:56	104	23:02	71S	04:11	252
2024 Sep 17 (Tue)	17:46	97	23:54	78S	05:09	259
2024 Sep 18 (Wed)	18:33	90			06:04	266
2024 Sep 19 (Thu)	19:21	82	00:46	86S	07:00	274
2024 Sep 20 (Fri)	20:10	75	01:37	88N	07:55	281
2024 Sep 21 (Sat)	21:02	69	02:31	81N	08:53	288
2024 Sep 22 (Sun)	21:57	65	03:26	76N	09:52	293
2024 Sep 23 (Mon)	22:54	62	04:24	71N	10:53	297
2024 Sep 24 (Tue)	23:53	61	05:24	69N	11:54	299
2024 Sep 25 (Wed)			06:23	69N	12:52	299
2024 Sep 26 (Thu)	00:51	62	07:19	70N	13:47	297
2024 Sep 27 (Fri)	01:46	64	08:12	73N	14:36	294
2024 Sep 28 (Sat)	02:37	68	09:00	77N	15:21	290
2024 Sep 29 (Sun)	03:26	73	09:45	82N	16:03	285
2024 Sep 30 (Mon)	04:11	78	10:26	87N	16:41	279
2024 Oct 01 (Tue)	04:54	84	11:06	89S	17:17	273
2024 Oct 02 (Wed)	05:35	90	11:45	83S	17:53	268
2024 Oct 03 (Thu)	06:17	95	12:24	77S	18:29	262
2024 Oct 04 (Fri)	06:59	101	13:04	71S	19:07	256
2024 Oct 05 (Sat)	07:44	106	13:46	66S	19:46	251
2024 Oct 06 (Sun)	08:30	111	14:30	61S	20:30	247
2024 Oct 07 (Mon)	09:20	115	15:19	58S	21:17	244
2024 Oct 08 (Tue)	10:13	118	16:11	55S	22:08	242
2024 Oct 09 (Wed)	11:08	119	17:05	55S	23:03	241
2024 Oct 10 (Thu)	12:04	119	18:02	55S		
2024 Oct 11 (Fri)	12:59	116	18:58	58S	00:00	242
2024 Oct 12 (Sat)	13:53	113	19:54	62S	00:58	245
2024 Oct 13 (Sun)	14:44	108	20:47	67S	01:56	250
2024 Oct 14 (Mon)	15:32	101	21:39	74S	02:52	255
2024 Oct 15 (Tue)	16:20	94	22:30	82S	03:47	262
2024 Oct 16 (Wed)	17:07	86	23:21	89S	04:41	270
2024 Oct 17 (Thu)	17:55	79			05:37	277
2024 Oct 18 (Fri)	18:47	72	00:14	85N	06:34	284
2024 Oct 19 (Sat)	19:42	67	01:09	78N	07:34	291
2024 Oct 20 (Sun)	20:40	63	02:08	73N	08:36	295
2024 Oct 21 (Mon)	21:41	61	03:09	70N	09:40	298
2024 Oct 22 (Tue)	22:41	61	04:11	69N	10:41	299
2024 Oct 23 (Wed)	23:39	63	05:10	69N	11:39	298
2024 Oct 24 (Thu)			06:06	72N	12:32	295
2024 Oct 25 (Fri)	00:33	67	06:57	75N	13:19	291
2024 Oct 26 (Sat)	01:22	71	07:43	80N	14:02	286
2024 Oct 27 (Sun)	02:09	76	08:26	85N	14:41	281
2024 Oct 28 (Mon)	02:52	82	09:06	91S	15:18	275
2024 Oct 29 (Tue)	03:34	88	09:45	85S	15:54	269

2024	Oct	30	(Wed)	04:16	93	10:23	79S	16:30	264
2024	Oct	31	(Thu)	04:58	99	11:03	73S	17:07	258
2024	Nov	01	(Fri)	05:41	105	11:44	68S	17:46	253
2024	Nov	02	(Sat)	06:27	110	12:28	63S	18:28	248
2024	Nov	03	(Sun)	07:17	114	13:16	59S	19:14	245
2024	Nov	04	(Mon)	08:09	117	14:07	56S	20:05	242
2024	Nov	05	(Tue)	09:03	119	15:01	55S	20:58	241
2024	Nov	06	(Wed)	09:59	119	15:57	55S	21:55	242
2024	Nov	07	(Thu)	10:54	117	16:52	57S	22:51	244
2024	Nov	08	(Fri)	11:47	114	17:47	60S	23:48	248
2024	Nov	09	(Sat)	12:37	110	18:39	65S		
2024	Nov	10	(Sun)	13:24	104	19:29	71S	00:42	253
2024	Nov	11	(Mon)	14:10	97	20:18	78S	01:35	259
2024	Nov	12	(Tue)	14:55	90	21:07	85S	02:28	266
2024	Nov	13	(Wed)	15:42	83	21:58	89N	03:21	274
2024	Nov	14	(Thu)	16:31	76	22:51	82N	04:15	281
2024	Nov	15	(Fri)	17:23	70	23:48	76N	05:13	287
2024	Nov	16	(Sat)	18:20	65			06:14	293
2024	Nov	17	(Sun)	19:21	62	00:49	71N	07:18	297
2024	Nov	18	(Mon)	20:24	61	01:52	69N	08:23	299
2024	Nov	19	(Tue)	21:25	62	02:54	69N	09:24	298
2024	Nov	20	(Wed)	22:22	65	03:54	71N	10:21	296
2024	Nov	21	(Thu)	23:15	69	04:48	74N	11:12	293
2024	Nov	22	(Fri)			05:37	78N	11:58	288
2024	Nov	23	(Sat)	00:04	74	06:22	83N	12:39	283
2024	Nov	24	(Sun)	00:49	80	07:03	89N	13:17	277
2024	Nov	25	(Mon)	01:31	86	07:43	87S	13:53	271
2024	Nov	26	(Tue)	02:13	91	08:22	81S	14:29	266
2024	Nov	27	(Wed)	02:55	97	09:01	75S	15:05	260
2024	Nov	28	(Thu)	03:38	103	09:41	69S	15:44	255
2024	Nov	29	(Fri)	04:23	108	10:25	64S	16:25	250
2024	Nov	30	(Sat)	05:11	112	11:11	60S	17:10	246
2024	Dec	01	(Sun)	06:03	116	12:02	57S	18:00	243
2024	Dec	02	(Mon)	06:58	118	12:56	55S	18:53	241
2024	Dec	03	(Tue)	07:54	119	13:52	55S	19:50	242
2024	Dec	04	(Wed)	08:50	118	14:48	56S	20:47	243
2024	Dec	05	(Thu)	09:43	115	15:43	59S	21:43	247
2024	Dec	06	(Fri)	10:34	111	16:35	64S	22:38	252
2024	Dec	07	(Sat)	11:22	106	17:25	69S	23:31	257
2024	Dec	08	(Sun)	12:07	99	18:13	76S		
2024	Dec	09	(Mon)	12:51	93	19:01	83S	00:22	264
2024	Dec	10	(Tue)	13:35	85	19:49	90S	01:12	271
2024	Dec	11	(Wed)	14:21	79	20:39	85N	02:04	278
2024	Dec	12	(Thu)	15:10	72	21:32	78N	02:58	285
2024	Dec	13	(Fri)	16:03	67	22:30	73N	03:56	291
2024	Dec	14	(Sat)	17:02	63	23:31	70N	04:58	295
2024	Dec	15	(Sun)	18:03	61			06:01	298
2024	Dec	16	(Mon)	19:06	62	00:34	69N	07:05	299
2024	Dec	17	(Tue)	20:06	64	01:36	70N	08:05	297
2024	Dec	18	(Wed)	21:03	68	02:34	72N	09:00	294
2024	Dec	19	(Thu)	21:54	72	03:27	76N	09:49	290
2024	Dec	20	(Fri)	22:42	78	04:14	81N	10:33	285
2024	Dec	21	(Sat)	23:26	83	04:58	87N	11:13	279
2024	Dec	22	(Sun)			05:39	89S	11:50	274
2024	Dec	23	(Mon)	00:08	89	06:18	83S	12:26	268
2024	Dec	24	(Tue)	00:50	95	06:57	77S	13:02	262
2024	Dec	25	(Wed)	01:33	101	07:37	71S	13:40	257
2024	Dec	26	(Thu)	02:17	106	08:19	66S	14:20	252
2024	Dec	27	(Fri)	03:04	111	09:04	62S	15:03	247
2024	Dec	28	(Sat)	03:54	115	09:53	58S	15:51	244
2024	Dec	29	(Sun)	04:48	117	10:46	56S	16:44	242
2024	Dec	30	(Mon)	05:44	119	11:42	55S	17:40	241
2024	Dec	31	(Tue)	06:41	118	12:40	56S	18:39	243