

Sun

VTNP

Location: E100°17'00.0", N16°47'00.0", 145m
(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)	05:57	06:48 114		12:22 51S	17:57 246		18:47
2024 Jan 02 (Tue)	05:58	06:48 114		12:23 51S	17:57 246		18:47
2024 Jan 03 (Wed)	05:58	06:48 114		12:23 51S	17:58 246		18:48
2024 Jan 04 (Thu)	05:58	06:49 114		12:23 51S	17:58 246		18:49
2024 Jan 05 (Fri)	05:59	06:49 113		12:24 51S	17:59 247		18:49
2024 Jan 06 (Sat)	05:59	06:49 113		12:24 51S	18:00 247		18:50
2024 Jan 07 (Sun)	05:59	06:50 113		12:25 51S	18:00 247		18:50
2024 Jan 08 (Mon)	06:00	06:50 113		12:25 52S	18:01 247		18:51
2024 Jan 09 (Tue)	06:00	06:50 113		12:26 52S	18:01 247		18:51
2024 Jan 10 (Wed)	06:00	06:50 113		12:26 52S	18:02 247		18:52
2024 Jan 11 (Thu)	06:00	06:50 113		12:26 52S	18:03 247		18:53
2024 Jan 12 (Fri)	06:01	06:51 113		12:27 52S	18:03 248		18:53
2024 Jan 13 (Sat)	06:01	06:51 112		12:27 52S	18:04 248		18:54
2024 Jan 14 (Sun)	06:01	06:51 112		12:28 53S	18:04 248		18:54
2024 Jan 15 (Mon)	06:01	06:51 112		12:28 53S	18:05 248		18:55
2024 Jan 16 (Tue)	06:02	06:51 112		12:28 53S	18:06 248		18:55
2024 Jan 17 (Wed)	06:02	06:51 112		12:29 53S	18:06 249		18:56
2024 Jan 18 (Thu)	06:02	06:51 111		12:29 53S	18:07 249		18:56
2024 Jan 19 (Fri)	06:02	06:51 111		12:29 53S	18:07 249		18:57
2024 Jan 20 (Sat)	06:02	06:51 111		12:30 54S	18:08 249		18:57
2024 Jan 21 (Sun)	06:02	06:51 111		12:30 54S	18:09 249		18:58
2024 Jan 22 (Mon)	06:02	06:51 110		12:30 54S	18:09 250		18:58
2024 Jan 23 (Tue)	06:02	06:51 110		12:30 54S	18:10 250		18:59
2024 Jan 24 (Wed)	06:02	06:51 110		12:31 55S	18:10 250		18:59
2024 Jan 25 (Thu)	06:02	06:51 110		12:31 55S	18:11 250		19:00
2024 Jan 26 (Fri)	06:02	06:51 110		12:31 55S	18:11 251		19:00
2024 Jan 27 (Sat)	06:02	06:51 109		12:31 55S	18:12 251		19:01
2024 Jan 28 (Sun)	06:02	06:51 109		12:32 56S	18:13 251		19:01
2024 Jan 29 (Mon)	06:02	06:51 109		12:32 56S	18:13 251		19:02
2024 Jan 30 (Tue)	06:02	06:51 108		12:32 56S	18:14 252		19:02
2024 Jan 31 (Wed)	06:02	06:50 108		12:32 56S	18:14 252		19:03
2024 Feb 01 (Thu)	06:02	06:50 108		12:32 57S	18:15 252		19:03
2024 Feb 02 (Fri)	06:01	06:50 108		12:32 57S	18:15 253		19:04
2024 Feb 03 (Sat)	06:01	06:50 107		12:33 57S	18:16 253		19:04
2024 Feb 04 (Sun)	06:01	06:49 107		12:33 58S	18:16 253		19:04
2024 Feb 05 (Mon)	06:01	06:49 107		12:33 58S	18:17 254		19:05
2024 Feb 06 (Tue)	06:01	06:49 106		12:33 58S	18:17 254		19:05
2024 Feb 07 (Wed)	06:00	06:49 106		12:33 58S	18:18 254		19:06
2024 Feb 08 (Thu)	06:00	06:48 106		12:33 59S	18:18 254		19:06
2024 Feb 09 (Fri)	06:00	06:48 105		12:33 59S	18:18 255		19:06
2024 Feb 10 (Sat)	06:00	06:47 105		12:33 59S	18:19 255		19:07
2024 Feb 11 (Sun)	05:59	06:47 105		12:33 60S	18:19 256		19:07
2024 Feb 12 (Mon)	05:59	06:47 104		12:33 60S	18:20 256		19:07
2024 Feb 13 (Tue)	05:58	06:46 104		12:33 60S	18:20 256		19:08
2024 Feb 14 (Wed)	05:58	06:46 104		12:33 61S	18:21 257		19:08
2024 Feb 15 (Thu)	05:58	06:45 103		12:33 61S	18:21 257		19:09
2024 Feb 16 (Fri)	05:57	06:45 103		12:33 61S	18:21 257		19:09
2024 Feb 17 (Sat)	05:57	06:44 103		12:33 62S	18:22 258		19:09
2024 Feb 18 (Sun)	05:56	06:44 102		12:33 62S	18:22 258		19:09
2024 Feb 19 (Mon)	05:56	06:43 102		12:33 62S	18:22 258		19:10
2024 Feb 20 (Tue)	05:55	06:43 101		12:33 63S	18:23 259		19:10
2024 Feb 21 (Wed)	05:55	06:42 101		12:33 63S	18:23 259		19:10
2024 Feb 22 (Thu)	05:54	06:42 101		12:32 64S	18:23 260		19:11
2024 Feb 23 (Fri)	05:54	06:41 100		12:32 64S	18:24 260		19:11
2024 Feb 24 (Sat)	05:53	06:41 100		12:32 64S	18:24 260		19:11

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

2024	May	02	(Thu)	05:04	05:53	74	12:16	89S	18:39	287	19:28
2024	May	03	(Fri)	05:03	05:53	73	12:16	90S	18:39	287	19:28
2024	May	04	(Sat)	05:03	05:52	73	12:16	90S	18:39	287	19:29
2024	May	05	(Sun)	05:02	05:52	73	12:16	90S	18:40	287	19:29
2024	May	06	(Mon)	05:02	05:51	72	12:15	91S	18:40	288	19:30
2024	May	07	(Tue)	05:01	05:51	72	12:15	91N	18:40	288	19:30
2024	May	08	(Wed)	05:01	05:50	72	12:15	90N	18:41	288	19:30
2024	May	09	(Thu)	05:00	05:50	72	12:15	90N	18:41	289	19:31
2024	May	10	(Fri)	05:00	05:50	71	12:15	90N	18:41	289	19:31
2024	May	11	(Sat)	04:59	05:49	71	12:15	89N	18:42	289	19:32
2024	May	12	(Sun)	04:59	05:49	71	12:15	89N	18:42	289	19:32
2024	May	13	(Mon)	04:58	05:48	70	12:15	89N	18:42	290	19:32
2024	May	14	(Tue)	04:58	05:48	70	12:15	89N	18:42	290	19:33
2024	May	15	(Wed)	04:57	05:48	70	12:15	89N	18:43	290	19:33
2024	May	16	(Thu)	04:57	05:48	70	12:15	88N	18:43	290	19:34
2024	May	17	(Fri)	04:57	05:47	69	12:15	88N	18:44	291	19:34
2024	May	18	(Sat)	04:56	05:47	69	12:15	88N	18:44	291	19:35
2024	May	19	(Sun)	04:56	05:47	69	12:15	88N	18:44	291	19:35
2024	May	20	(Mon)	04:56	05:46	69	12:15	87N	18:45	291	19:35
2024	May	21	(Tue)	04:55	05:46	69	12:15	87N	18:45	292	19:36
2024	May	22	(Wed)	04:55	05:46	68	12:16	87N	18:45	292	19:36
2024	May	23	(Thu)	04:55	05:46	68	12:16	87N	18:46	292	19:37
2024	May	24	(Fri)	04:55	05:46	68	12:16	87N	18:46	292	19:37
2024	May	25	(Sat)	04:54	05:46	68	12:16	86N	18:46	292	19:38
2024	May	26	(Sun)	04:54	05:45	68	12:16	86N	18:47	293	19:38
2024	May	27	(Mon)	04:54	05:45	67	12:16	86N	18:47	293	19:38
2024	May	28	(Tue)	04:54	05:45	67	12:16	86N	18:47	293	19:39
2024	May	29	(Wed)	04:54	05:45	67	12:16	86N	18:48	293	19:39
2024	May	30	(Thu)	04:53	05:45	67	12:16	86N	18:48	293	19:40
2024	May	31	(Fri)	04:53	05:45	67	12:17	86N	18:48	293	19:40
2024	Jun	01	(Sat)	04:53	05:45	67	12:17	85N	18:49	293	19:41
2024	Jun	02	(Sun)	04:53	05:45	66	12:17	85N	18:49	294	19:41
2024	Jun	03	(Mon)	04:53	05:45	66	12:17	85N	18:49	294	19:41
2024	Jun	04	(Tue)	04:53	05:45	66	12:17	85N	18:50	294	19:42
2024	Jun	05	(Wed)	04:53	05:45	66	12:17	85N	18:50	294	19:42
2024	Jun	06	(Thu)	04:53	05:45	66	12:18	85N	18:50	294	19:43
2024	Jun	07	(Fri)	04:53	05:45	66	12:18	85N	18:51	294	19:43
2024	Jun	08	(Sat)	04:53	05:45	66	12:18	85N	18:51	294	19:43
2024	Jun	09	(Sun)	04:53	05:45	66	12:18	85N	18:51	294	19:44
2024	Jun	10	(Mon)	04:53	05:45	66	12:18	84N	18:52	294	19:44
2024	Jun	11	(Tue)	04:53	05:45	66	12:19	84N	18:52	295	19:44
2024	Jun	12	(Wed)	04:53	05:45	65	12:19	84N	18:52	295	19:45
2024	Jun	13	(Thu)	04:53	05:45	65	12:19	84N	18:53	295	19:45
2024	Jun	14	(Fri)	04:53	05:46	65	12:19	84N	18:53	295	19:45
2024	Jun	15	(Sat)	04:53	05:46	65	12:19	84N	18:53	295	19:46
2024	Jun	16	(Sun)	04:54	05:46	65	12:20	84N	18:53	295	19:46
2024	Jun	17	(Mon)	04:54	05:46	65	12:20	84N	18:54	295	19:46
2024	Jun	18	(Tue)	04:54	05:46	65	12:20	84N	18:54	295	19:46
2024	Jun	19	(Wed)	04:54	05:46	65	12:20	84N	18:54	295	19:47
2024	Jun	20	(Thu)	04:54	05:47	65	12:21	84N	18:54	295	19:47
2024	Jun	21	(Fri)	04:54	05:47	65	12:21	84N	18:55	295	19:47
2024	Jun	22	(Sat)	04:55	05:47	65	12:21	84N	18:55	295	19:47
2024	Jun	23	(Sun)	04:55	05:47	65	12:21	84N	18:55	295	19:47
2024	Jun	24	(Mon)	04:55	05:48	65	12:21	84N	18:55	295	19:48
2024	Jun	25	(Tue)	04:55	05:48	65	12:22	84N	18:55	295	19:48
2024	Jun	26	(Wed)	04:56	05:48	65	12:22	84N	18:56	295	19:48
2024	Jun	27	(Thu)	04:56	05:48	65	12:22	84N	18:56	295	19:48
2024	Jun	28	(Fri)	04:56	05:49	65	12:22	84N	18:56	295	19:48
2024	Jun	29	(Sat)	04:57	05:49	65	12:22	84N	18:56	295	19:48
2024	Jun	30	(Sun)	04:57	05:49	65	12:23	84N	18:56	294	19:48
2024	Jul	01	(Mon)	04:57	05:49	66	12:23	84N	18:56	294	19:48
2024	Jul	02	(Tue)	04:58	05:50	66	12:23	84N	18:56	294	19:48
2024	Jul	03	(Wed)	04:58	05:50	66	12:23	85N	18:56	294	19:48
2024	Jul	04	(Thu)	04:58	05:50	66	12:23	85N	18:56	294	19:48
2024	Jul	05	(Fri)	04:59	05:51	66	12:24	85N	18:56	294	19:48
2024	Jul	06	(Sat)	04:59	05:51	66	12:24	85N	18:56	294	19:48
2024	Jul	07	(Sun)	04:59	05:51	66	12:24	85N	18:56	294	19:48

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

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

2024	Nov	19	(Tue)	05:36	06:25	110	12:04	54S	17:43	250	18:33
2024	Nov	20	(Wed)	05:36	06:26	110	12:05	54S	17:43	249	18:33
2024	Nov	21	(Thu)	05:37	06:26	111	12:05	54S	17:43	249	18:33
2024	Nov	22	(Fri)	05:37	06:27	111	12:05	54S	17:43	249	18:33
2024	Nov	23	(Sat)	05:38	06:27	111	12:05	53S	17:43	249	18:33
2024	Nov	24	(Sun)	05:38	06:28	111	12:06	53S	17:43	249	18:33
2024	Nov	25	(Mon)	05:39	06:28	111	12:06	53S	17:43	248	18:33
2024	Nov	26	(Tue)	05:39	06:29	112	12:06	53S	17:43	248	18:33
2024	Nov	27	(Wed)	05:40	06:30	112	12:07	53S	17:43	248	18:33
2024	Nov	28	(Thu)	05:40	06:30	112	12:07	53S	17:44	248	18:33
2024	Nov	29	(Fri)	05:41	06:31	112	12:07	52S	17:44	248	18:34
2024	Nov	30	(Sat)	05:41	06:31	112	12:08	52S	17:44	247	18:34
2024	Dec	01	(Sun)	05:42	06:32	113	12:08	52S	17:44	247	18:34
2024	Dec	02	(Mon)	05:42	06:32	113	12:08	52S	17:44	247	18:34
2024	Dec	03	(Tue)	05:43	06:33	113	12:09	52S	17:44	247	18:34
2024	Dec	04	(Wed)	05:44	06:34	113	12:09	52S	17:45	247	18:35
2024	Dec	05	(Thu)	05:44	06:34	113	12:10	51S	17:45	247	18:35
2024	Dec	06	(Fri)	05:45	06:35	113	12:10	51S	17:45	247	18:35
2024	Dec	07	(Sat)	05:45	06:35	113	12:10	51S	17:45	247	18:36
2024	Dec	08	(Sun)	05:46	06:36	114	12:11	51S	17:46	246	18:36
2024	Dec	09	(Mon)	05:46	06:37	114	12:11	51S	17:46	246	18:36
2024	Dec	10	(Tue)	05:47	06:37	114	12:12	51S	17:46	246	18:37
2024	Dec	11	(Wed)	05:47	06:38	114	12:12	51S	17:47	246	18:37
2024	Dec	12	(Thu)	05:48	06:38	114	12:13	51S	17:47	246	18:37
2024	Dec	13	(Fri)	05:48	06:39	114	12:13	51S	17:47	246	18:38
2024	Dec	14	(Sat)	05:49	06:39	114	12:14	51S	17:48	246	18:38
2024	Dec	15	(Sun)	05:49	06:40	114	12:14	51S	17:48	246	18:39
2024	Dec	16	(Mon)	05:50	06:41	114	12:15	51S	17:49	246	18:39
2024	Dec	17	(Tue)	05:51	06:41	114	12:15	51S	17:49	246	18:40
2024	Dec	18	(Wed)	05:51	06:42	114	12:16	51S	17:49	246	18:40
2024	Dec	19	(Thu)	05:52	06:42	114	12:16	51S	17:50	246	18:41
2024	Dec	20	(Fri)	05:52	06:43	114	12:17	50S	17:50	246	18:41
2024	Dec	21	(Sat)	05:53	06:43	114	12:17	50S	17:51	246	18:41
2024	Dec	22	(Sun)	05:53	06:44	114	12:18	50S	17:51	246	18:42
2024	Dec	23	(Mon)	05:54	06:44	114	12:18	50S	17:52	246	18:42
2024	Dec	24	(Tue)	05:54	06:45	114	12:19	51S	17:52	246	18:43
2024	Dec	25	(Wed)	05:55	06:45	114	12:19	51S	17:53	246	18:44
2024	Dec	26	(Thu)	05:55	06:46	114	12:20	51S	17:54	246	18:44
2024	Dec	27	(Fri)	05:55	06:46	114	12:20	51S	17:54	246	18:45
2024	Dec	28	(Sat)	05:56	06:46	114	12:20	51S	17:55	246	18:45
2024	Dec	29	(Sun)	05:56	06:47	114	12:21	51S	17:55	246	18:46
2024	Dec	30	(Mon)	05:57	06:47	114	12:21	51S	17:56	246	18:46
2024	Dec	31	(Tue)	05:57	06:48	114	12:22	51S	17:56	246	18:47

Sun

VTNP

Location: E100°17'00.0", N16°47'00.0", 145m
(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)	06:24	06:48	114	12:22	51S	17:57	246	18:20
2024	Jan	02	(Tue)	06:25	06:48	114	12:23	51S	17:57	246	18:21
2024	Jan	03	(Wed)	06:25	06:48	114	12:23	51S	17:58	246	18:21
2024	Jan	04	(Thu)	06:25	06:49	114	12:23	51S	17:58	246	18:22
2024	Jan	05	(Fri)	06:26	06:49	113	12:24	51S	17:59	247	18:22
2024	Jan	06	(Sat)	06:26	06:49	113	12:24	51S	18:00	247	18:23
2024	Jan	07	(Sun)	06:26	06:50	113	12:25	51S	18:00	247	18:23
2024	Jan	08	(Mon)	06:26	06:50	113	12:25	52S	18:01	247	18:24
2024	Jan	09	(Tue)	06:27	06:50	113	12:26	52S	18:01	247	18:25
2024	Jan	10	(Wed)	06:27	06:50	113	12:26	52S	18:02	247	18:25
2024	Jan	11	(Thu)	06:27	06:50	113	12:26	52S	18:03	247	18:26

2024	Jan	12	(Fri)	06:27	06:51	113	12:27	52S	18:03	248	18:26
2024	Jan	13	(Sat)	06:28	06:51	112	12:27	52S	18:04	248	18:27
2024	Jan	14	(Sun)	06:28	06:51	112	12:28	53S	18:04	248	18:28
2024	Jan	15	(Mon)	06:28	06:51	112	12:28	53S	18:05	248	18:28
2024	Jan	16	(Tue)	06:28	06:51	112	12:28	53S	18:06	248	18:29
2024	Jan	17	(Wed)	06:28	06:51	112	12:29	53S	18:06	249	18:29
2024	Jan	18	(Thu)	06:28	06:51	111	12:29	53S	18:07	249	18:30
2024	Jan	19	(Fri)	06:28	06:51	111	12:29	53S	18:07	249	18:30
2024	Jan	20	(Sat)	06:28	06:51	111	12:30	54S	18:08	249	18:31
2024	Jan	21	(Sun)	06:28	06:51	111	12:30	54S	18:09	249	18:32
2024	Jan	22	(Mon)	06:29	06:51	110	12:30	54S	18:09	250	18:32
2024	Jan	23	(Tue)	06:29	06:51	110	12:30	54S	18:10	250	18:33
2024	Jan	24	(Wed)	06:28	06:51	110	12:31	55S	18:10	250	18:33
2024	Jan	25	(Thu)	06:28	06:51	110	12:31	55S	18:11	250	18:34
2024	Jan	26	(Fri)	06:28	06:51	110	12:31	55S	18:11	251	18:34
2024	Jan	27	(Sat)	06:28	06:51	109	12:31	55S	18:12	251	18:35
2024	Jan	28	(Sun)	06:28	06:51	109	12:32	56S	18:13	251	18:35
2024	Jan	29	(Mon)	06:28	06:51	109	12:32	56S	18:13	251	18:36
2024	Jan	30	(Tue)	06:28	06:51	108	12:32	56S	18:14	252	18:36
2024	Jan	31	(Wed)	06:28	06:50	108	12:32	56S	18:14	252	18:37
2024	Feb	01	(Thu)	06:28	06:50	108	12:32	57S	18:15	252	18:37
2024	Feb	02	(Fri)	06:27	06:50	108	12:32	57S	18:15	253	18:38
2024	Feb	03	(Sat)	06:27	06:50	107	12:33	57S	18:16	253	18:38
2024	Feb	04	(Sun)	06:27	06:49	107	12:33	58S	18:16	253	18:39
2024	Feb	05	(Mon)	06:27	06:49	107	12:33	58S	18:17	254	18:39
2024	Feb	06	(Tue)	06:26	06:49	106	12:33	58S	18:17	254	18:39
2024	Feb	07	(Wed)	06:26	06:49	106	12:33	58S	18:18	254	18:40
2024	Feb	08	(Thu)	06:26	06:48	106	12:33	59S	18:18	254	18:40
2024	Feb	09	(Fri)	06:26	06:48	105	12:33	59S	18:18	255	18:41
2024	Feb	10	(Sat)	06:25	06:47	105	12:33	59S	18:19	255	18:41
2024	Feb	11	(Sun)	06:25	06:47	105	12:33	60S	18:19	256	18:41
2024	Feb	12	(Mon)	06:24	06:47	104	12:33	60S	18:20	256	18:42
2024	Feb	13	(Tue)	06:24	06:46	104	12:33	60S	18:20	256	18:42
2024	Feb	14	(Wed)	06:24	06:46	104	12:33	61S	18:21	257	18:43
2024	Feb	15	(Thu)	06:23	06:45	103	12:33	61S	18:21	257	18:43
2024	Feb	16	(Fri)	06:23	06:45	103	12:33	61S	18:21	257	18:43
2024	Feb	17	(Sat)	06:22	06:44	103	12:33	62S	18:22	258	18:44
2024	Feb	18	(Sun)	06:22	06:44	102	12:33	62S	18:22	258	18:44
2024	Feb	19	(Mon)	06:21	06:43	102	12:33	62S	18:22	258	18:44
2024	Feb	20	(Tue)	06:21	06:43	101	12:33	63S	18:23	259	18:45
2024	Feb	21	(Wed)	06:20	06:42	101	12:33	63S	18:23	259	18:45
2024	Feb	22	(Thu)	06:20	06:42	101	12:32	64S	18:23	260	18:45
2024	Feb	23	(Fri)	06:19	06:41	100	12:32	64S	18:24	260	18:46
2024	Feb	24	(Sat)	06:19	06:41	100	12:32	64S	18:24	260	18:46
2024	Feb	25	(Sun)	06:18	06:40	100	12:32	65S	18:24	261	18:46
2024	Feb	26	(Mon)	06:18	06:39	99	12:32	65S	18:25	261	18:46
2024	Feb	27	(Tue)	06:17	06:39	99	12:32	65S	18:25	261	18:47
2024	Feb	28	(Wed)	06:16	06:38	98	12:32	66S	18:25	262	18:47
2024	Feb	29	(Thu)	06:16	06:37	98	12:31	66S	18:25	262	18:47
2024	Mar	01	(Fri)	06:15	06:37	98	12:31	67S	18:26	263	18:47
2024	Mar	02	(Sat)	06:14	06:36	97	12:31	67S	18:26	263	18:48
2024	Mar	03	(Sun)	06:14	06:35	97	12:31	67S	18:26	263	18:48
2024	Mar	04	(Mon)	06:13	06:35	96	12:31	68S	18:26	264	18:48
2024	Mar	05	(Tue)	06:12	06:34	96	12:30	68S	18:27	264	18:48
2024	Mar	06	(Wed)	06:12	06:33	96	12:30	68S	18:27	265	18:49
2024	Mar	07	(Thu)	06:11	06:33	95	12:30	69S	18:27	265	18:49
2024	Mar	08	(Fri)	06:10	06:32	95	12:30	69S	18:27	265	18:49
2024	Mar	09	(Sat)	06:10	06:31	94	12:29	70S	18:28	266	18:49
2024	Mar	10	(Sun)	06:09	06:30	94	12:29	70S	18:28	266	18:49
2024	Mar	11	(Mon)	06:08	06:30	94	12:29	70S	18:28	267	18:50
2024	Mar	12	(Tue)	06:07	06:29	93	12:29	71S	18:28	267	18:50
2024	Mar	13	(Wed)	06:07	06:28	93	12:28	71S	18:29	268	18:50
2024	Mar	14	(Thu)	06:06	06:28	92	12:28	72S	18:29	268	18:50
2024	Mar	15	(Fri)	06:05	06:27	92	12:28	72S	18:29	268	18:50
2024	Mar	16	(Sat)	06:04	06:26	91	12:27	72S	18:29	269	18:51
2024	Mar	17	(Sun)	06:04	06:25	91	12:27	73S	18:29	269	18:51
2024	Mar	18	(Mon)	06:03	06:24	91	12:27	73S	18:29	270	18:51

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

2024	May	25	(Sat)	05:22	05:46	68	12:16	86N	18:46	292	19:10
2024	May	26	(Sun)	05:22	05:45	68	12:16	86N	18:47	293	19:10
2024	May	27	(Mon)	05:22	05:45	67	12:16	86N	18:47	293	19:11
2024	May	28	(Tue)	05:22	05:45	67	12:16	86N	18:47	293	19:11
2024	May	29	(Wed)	05:21	05:45	67	12:16	86N	18:48	293	19:11
2024	May	30	(Thu)	05:21	05:45	67	12:16	86N	18:48	293	19:12
2024	May	31	(Fri)	05:21	05:45	67	12:17	86N	18:48	293	19:12
2024	Jun	01	(Sat)	05:21	05:45	67	12:17	85N	18:49	293	19:12
2024	Jun	02	(Sun)	05:21	05:45	66	12:17	85N	18:49	294	19:13
2024	Jun	03	(Mon)	05:21	05:45	66	12:17	85N	18:49	294	19:13
2024	Jun	04	(Tue)	05:21	05:45	66	12:17	85N	18:50	294	19:14
2024	Jun	05	(Wed)	05:21	05:45	66	12:17	85N	18:50	294	19:14
2024	Jun	06	(Thu)	05:21	05:45	66	12:18	85N	18:50	294	19:14
2024	Jun	07	(Fri)	05:21	05:45	66	12:18	85N	18:51	294	19:15
2024	Jun	08	(Sat)	05:21	05:45	66	12:18	85N	18:51	294	19:15
2024	Jun	09	(Sun)	05:21	05:45	66	12:18	85N	18:51	294	19:15
2024	Jun	10	(Mon)	05:21	05:45	66	12:18	84N	18:52	294	19:16
2024	Jun	11	(Tue)	05:21	05:45	66	12:19	84N	18:52	295	19:16
2024	Jun	12	(Wed)	05:21	05:45	65	12:19	84N	18:52	295	19:16
2024	Jun	13	(Thu)	05:21	05:45	65	12:19	84N	18:53	295	19:17
2024	Jun	14	(Fri)	05:22	05:46	65	12:19	84N	18:53	295	19:17
2024	Jun	15	(Sat)	05:22	05:46	65	12:19	84N	18:53	295	19:17
2024	Jun	16	(Sun)	05:22	05:46	65	12:20	84N	18:53	295	19:17
2024	Jun	17	(Mon)	05:22	05:46	65	12:20	84N	18:54	295	19:18
2024	Jun	18	(Tue)	05:22	05:46	65	12:20	84N	18:54	295	19:18
2024	Jun	19	(Wed)	05:22	05:46	65	12:20	84N	18:54	295	19:18
2024	Jun	20	(Thu)	05:23	05:47	65	12:21	84N	18:54	295	19:18
2024	Jun	21	(Fri)	05:23	05:47	65	12:21	84N	18:55	295	19:19
2024	Jun	22	(Sat)	05:23	05:47	65	12:21	84N	18:55	295	19:19
2024	Jun	23	(Sun)	05:23	05:47	65	12:21	84N	18:55	295	19:19
2024	Jun	24	(Mon)	05:24	05:48	65	12:21	84N	18:55	295	19:19
2024	Jun	25	(Tue)	05:24	05:48	65	12:22	84N	18:55	295	19:19
2024	Jun	26	(Wed)	05:24	05:48	65	12:22	84N	18:56	295	19:20
2024	Jun	27	(Thu)	05:24	05:48	65	12:22	84N	18:56	295	19:20
2024	Jun	28	(Fri)	05:25	05:49	65	12:22	84N	18:56	295	19:20
2024	Jun	29	(Sat)	05:25	05:49	65	12:22	84N	18:56	295	19:20
2024	Jun	30	(Sun)	05:25	05:49	65	12:23	84N	18:56	294	19:20
2024	Jul	01	(Mon)	05:25	05:49	66	12:23	84N	18:56	294	19:20
2024	Jul	02	(Tue)	05:26	05:50	66	12:23	84N	18:56	294	19:20
2024	Jul	03	(Wed)	05:26	05:50	66	12:23	85N	18:56	294	19:20
2024	Jul	04	(Thu)	05:26	05:50	66	12:23	85N	18:56	294	19:20
2024	Jul	05	(Fri)	05:27	05:51	66	12:24	85N	18:56	294	19:20
2024	Jul	06	(Sat)	05:27	05:51	66	12:24	85N	18:56	294	19:20
2024	Jul	07	(Sun)	05:27	05:51	66	12:24	85N	18:56	294	19:20
2024	Jul	08	(Mon)	05:28	05:52	66	12:24	85N	18:56	294	19:20
2024	Jul	09	(Tue)	05:28	05:52	66	12:24	85N	18:56	294	19:20
2024	Jul	10	(Wed)	05:29	05:52	66	12:24	85N	18:56	293	19:20
2024	Jul	11	(Thu)	05:29	05:53	67	12:24	85N	18:56	293	19:20
2024	Jul	12	(Fri)	05:29	05:53	67	12:25	86N	18:56	293	19:20
2024	Jul	13	(Sat)	05:30	05:53	67	12:25	86N	18:56	293	19:20
2024	Jul	14	(Sun)	05:30	05:54	67	12:25	86N	18:56	293	19:20
2024	Jul	15	(Mon)	05:30	05:54	67	12:25	86N	18:56	293	19:19
2024	Jul	16	(Tue)	05:31	05:54	67	12:25	86N	18:56	292	19:19
2024	Jul	17	(Wed)	05:31	05:55	68	12:25	86N	18:56	292	19:19
2024	Jul	18	(Thu)	05:31	05:55	68	12:25	87N	18:55	292	19:19
2024	Jul	19	(Fri)	05:32	05:55	68	12:25	87N	18:55	292	19:19
2024	Jul	20	(Sat)	05:32	05:56	68	12:25	87N	18:55	292	19:18
2024	Jul	21	(Sun)	05:32	05:56	68	12:25	87N	18:55	292	19:18
2024	Jul	22	(Mon)	05:33	05:56	69	12:25	87N	18:54	291	19:18
2024	Jul	23	(Tue)	05:33	05:56	69	12:25	88N	18:54	291	19:17
2024	Jul	24	(Wed)	05:33	05:57	69	12:25	88N	18:54	291	19:17
2024	Jul	25	(Thu)	05:34	05:57	69	12:25	88N	18:54	291	19:17
2024	Jul	26	(Fri)	05:34	05:57	69	12:25	88N	18:53	290	19:16
2024	Jul	27	(Sat)	05:35	05:58	70	12:25	88N	18:53	290	19:16
2024	Jul	28	(Sun)	05:35	05:58	70	12:25	89N	18:53	290	19:16
2024	Jul	29	(Mon)	05:35	05:58	70	12:25	89N	18:52	290	19:15
2024	Jul	30	(Tue)	05:36	05:59	70	12:25	89N	18:52	289	19:15

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

2024	Oct	06	(Sun)	05:48	06:10	95	12:07	69S	18:04	265	18:25
2024	Oct	07	(Mon)	05:48	06:10	96	12:07	68S	18:03	264	18:25
2024	Oct	08	(Tue)	05:48	06:10	96	12:06	68S	18:02	264	18:24
2024	Oct	09	(Wed)	05:49	06:10	96	12:06	67S	18:02	263	18:23
2024	Oct	10	(Thu)	05:49	06:11	97	12:06	67S	18:01	263	18:23
2024	Oct	11	(Fri)	05:49	06:11	97	12:06	67S	18:00	263	18:22
2024	Oct	12	(Sat)	05:49	06:11	98	12:05	66S	17:59	262	18:21
2024	Oct	13	(Sun)	05:49	06:11	98	12:05	66S	17:59	262	18:20
2024	Oct	14	(Mon)	05:50	06:11	98	12:05	66S	17:58	261	18:20
2024	Oct	15	(Tue)	05:50	06:12	99	12:05	65S	17:57	261	18:19
2024	Oct	16	(Wed)	05:50	06:12	99	12:04	65S	17:57	261	18:19
2024	Oct	17	(Thu)	05:50	06:12	100	12:04	64S	17:56	260	18:18
2024	Oct	18	(Fri)	05:50	06:12	100	12:04	64S	17:55	260	18:17
2024	Oct	19	(Sat)	05:51	06:13	100	12:04	64S	17:55	260	18:17
2024	Oct	20	(Sun)	05:51	06:13	101	12:04	63S	17:54	259	18:16
2024	Oct	21	(Mon)	05:51	06:13	101	12:03	63S	17:54	259	18:16
2024	Oct	22	(Tue)	05:51	06:13	101	12:03	63S	17:53	258	18:15
2024	Oct	23	(Wed)	05:52	06:14	102	12:03	62S	17:52	258	18:14
2024	Oct	24	(Thu)	05:52	06:14	102	12:03	62S	17:52	258	18:14
2024	Oct	25	(Fri)	05:52	06:14	102	12:03	62S	17:51	257	18:13
2024	Oct	26	(Sat)	05:53	06:15	103	12:03	61S	17:51	257	18:13
2024	Oct	27	(Sun)	05:53	06:15	103	12:03	61S	17:50	257	18:12
2024	Oct	28	(Mon)	05:53	06:15	104	12:03	61S	17:50	256	18:12
2024	Oct	29	(Tue)	05:53	06:16	104	12:03	60S	17:49	256	18:11
2024	Oct	30	(Wed)	05:54	06:16	104	12:03	60S	17:49	256	18:11
2024	Oct	31	(Thu)	05:54	06:16	105	12:02	60S	17:48	255	18:11
2024	Nov	01	(Fri)	05:54	06:17	105	12:02	59S	17:48	255	18:10
2024	Nov	02	(Sat)	05:55	06:17	105	12:02	59S	17:48	255	18:10
2024	Nov	03	(Sun)	05:55	06:18	106	12:02	59S	17:47	254	18:09
2024	Nov	04	(Mon)	05:56	06:18	106	12:02	58S	17:47	254	18:09
2024	Nov	05	(Tue)	05:56	06:18	106	12:02	58S	17:46	254	18:09
2024	Nov	06	(Wed)	05:56	06:19	107	12:03	58S	17:46	253	18:08
2024	Nov	07	(Thu)	05:57	06:19	107	12:03	58S	17:46	253	18:08
2024	Nov	08	(Fri)	05:57	06:20	107	12:03	57S	17:45	253	18:08
2024	Nov	09	(Sat)	05:58	06:20	107	12:03	57S	17:45	252	18:08
2024	Nov	10	(Sun)	05:58	06:21	108	12:03	57S	17:45	252	18:07
2024	Nov	11	(Mon)	05:58	06:21	108	12:03	56S	17:45	252	18:07
2024	Nov	12	(Tue)	05:59	06:22	108	12:03	56S	17:44	252	18:07
2024	Nov	13	(Wed)	05:59	06:22	109	12:03	56S	17:44	251	18:07
2024	Nov	14	(Thu)	06:00	06:22	109	12:03	56S	17:44	251	18:07
2024	Nov	15	(Fri)	06:00	06:23	109	12:03	55S	17:44	251	18:07
2024	Nov	16	(Sat)	06:01	06:23	109	12:04	55S	17:44	250	18:06
2024	Nov	17	(Sun)	06:01	06:24	110	12:04	55S	17:44	250	18:06
2024	Nov	18	(Mon)	06:02	06:25	110	12:04	55S	17:43	250	18:06
2024	Nov	19	(Tue)	06:02	06:25	110	12:04	54S	17:43	250	18:06
2024	Nov	20	(Wed)	06:03	06:26	110	12:05	54S	17:43	249	18:06
2024	Nov	21	(Thu)	06:03	06:26	111	12:05	54S	17:43	249	18:06
2024	Nov	22	(Fri)	06:04	06:27	111	12:05	54S	17:43	249	18:06
2024	Nov	23	(Sat)	06:04	06:27	111	12:05	53S	17:43	249	18:06
2024	Nov	24	(Sun)	06:05	06:28	111	12:06	53S	17:43	249	18:06
2024	Nov	25	(Mon)	06:05	06:28	111	12:06	53S	17:43	248	18:06
2024	Nov	26	(Tue)	06:06	06:29	112	12:06	53S	17:43	248	18:06
2024	Nov	27	(Wed)	06:06	06:30	112	12:07	53S	17:43	248	18:07
2024	Nov	28	(Thu)	06:07	06:30	112	12:07	53S	17:44	248	18:07
2024	Nov	29	(Fri)	06:07	06:31	112	12:07	52S	17:44	248	18:07
2024	Nov	30	(Sat)	06:08	06:31	112	12:08	52S	17:44	247	18:07
2024	Dec	01	(Sun)	06:09	06:32	113	12:08	52S	17:44	247	18:07
2024	Dec	02	(Mon)	06:09	06:32	113	12:08	52S	17:44	247	18:07
2024	Dec	03	(Tue)	06:10	06:33	113	12:09	52S	17:44	247	18:08
2024	Dec	04	(Wed)	06:10	06:34	113	12:09	52S	17:45	247	18:08
2024	Dec	05	(Thu)	06:11	06:34	113	12:10	51S	17:45	247	18:08
2024	Dec	06	(Fri)	06:11	06:35	113	12:10	51S	17:45	247	18:08
2024	Dec	07	(Sat)	06:12	06:35	113	12:10	51S	17:45	247	18:09
2024	Dec	08	(Sun)	06:13	06:36	114	12:11	51S	17:46	246	18:09
2024	Dec	09	(Mon)	06:13	06:37	114	12:11	51S	17:46	246	18:09
2024	Dec	10	(Tue)	06:14	06:37	114	12:12	51S	17:46	246	18:10
2024	Dec	11	(Wed)	06:14	06:38	114	12:12	51S	17:47	246	18:10

2024	Dec 12	(Thu)	06:15	06:38	114	12:13	51S	17:47	246	18:10
2024	Dec 13	(Fri)	06:15	06:39	114	12:13	51S	17:47	246	18:11
2024	Dec 14	(Sat)	06:16	06:39	114	12:14	51S	17:48	246	18:11
2024	Dec 15	(Sun)	06:16	06:40	114	12:14	51S	17:48	246	18:12
2024	Dec 16	(Mon)	06:17	06:41	114	12:15	51S	17:49	246	18:12
2024	Dec 17	(Tue)	06:18	06:41	114	12:15	51S	17:49	246	18:13
2024	Dec 18	(Wed)	06:18	06:42	114	12:16	51S	17:49	246	18:13
2024	Dec 19	(Thu)	06:19	06:42	114	12:16	51S	17:50	246	18:13
2024	Dec 20	(Fri)	06:19	06:43	114	12:17	50S	17:50	246	18:14
2024	Dec 21	(Sat)	06:20	06:43	114	12:17	50S	17:51	246	18:14
2024	Dec 22	(Sun)	06:20	06:44	114	12:18	50S	17:51	246	18:15
2024	Dec 23	(Mon)	06:21	06:44	114	12:18	50S	17:52	246	18:15
2024	Dec 24	(Tue)	06:21	06:45	114	12:19	51S	17:52	246	18:16
2024	Dec 25	(Wed)	06:22	06:45	114	12:19	51S	17:53	246	18:17
2024	Dec 26	(Thu)	06:22	06:46	114	12:20	51S	17:54	246	18:17
2024	Dec 27	(Fri)	06:22	06:46	114	12:20	51S	17:54	246	18:18
2024	Dec 28	(Sat)	06:23	06:46	114	12:20	51S	17:55	246	18:18
2024	Dec 29	(Sun)	06:23	06:47	114	12:21	51S	17:55	246	18:19
2024	Dec 30	(Mon)	06:24	06:47	114	12:21	51S	17:56	246	18:19
2024	Dec 31	(Tue)	06:24	06:48	114	12:22	51S	17:56	246	18:20

Moon

VTNP

Location: E100°17'00.0", N16°47'00.0", 145m
(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)	22:29	80	04:10	87S	10:35	282
2024 Jan 02 (Tue)	23:16	86	04:50	82S	11:08	277
2024 Jan 03 (Wed)			05:30	76S	11:40	271
2024 Jan 04 (Thu)	00:02	92	06:09	70S	12:12	265
2024 Jan 05 (Fri)	00:49	98	06:49	64S	12:46	259
2024 Jan 06 (Sat)	01:39	104	07:32	59S	13:22	253
2024 Jan 07 (Sun)	02:31	110	08:19	54S	14:03	248
2024 Jan 08 (Mon)	03:28	114	09:10	49S	14:50	244
2024 Jan 09 (Tue)	04:29	118	10:07	46S	15:44	241
2024 Jan 10 (Wed)	05:33	119	11:09	45S	16:45	240
2024 Jan 11 (Thu)	06:36	119	12:13	46S	17:51	242
2024 Jan 12 (Fri)	07:35	117	13:16	49S	18:59	245
2024 Jan 13 (Sat)	08:29	112	14:15	54S	20:05	251
2024 Jan 14 (Sun)	09:18	106	15:10	60S	21:07	257
2024 Jan 15 (Mon)	10:01	99	16:02	66S	22:07	264
2024 Jan 16 (Tue)	10:42	92	16:51	74S	23:04	272
2024 Jan 17 (Wed)	11:21	85	17:39	80S		
2024 Jan 18 (Thu)	12:01	78	18:27	87S	00:00	279
2024 Jan 19 (Fri)	12:42	72	19:16	89N	00:57	285
2024 Jan 20 (Sat)	13:26	67	20:08	84N	01:54	291
2024 Jan 21 (Sun)	14:14	63	21:01	81N	02:53	295
2024 Jan 22 (Mon)	15:05	61	21:57	79N	03:51	298
2024 Jan 23 (Tue)	16:00	60	22:52	79N	04:48	300
2024 Jan 24 (Wed)	16:56	62	23:45	81N	05:43	299
2024 Jan 25 (Thu)	17:51	64			06:32	297
2024 Jan 26 (Fri)	18:44	68	00:36	84N	07:17	294
2024 Jan 27 (Sat)	19:35	73	01:23	88N	07:57	289
2024 Jan 28 (Sun)	20:24	78	02:06	89S	08:34	284
2024 Jan 29 (Mon)	21:10	84	02:47	84S	09:07	279
2024 Jan 30 (Tue)	21:56	90	03:27	78S	09:39	273
2024 Jan 31 (Wed)	22:43	96	04:06	72S	10:11	267
2024 Feb 01 (Thu)	23:30	102	04:45	66S	10:44	261
2024 Feb 02 (Fri)			05:26	61S	11:18	255
2024 Feb 03 (Sat)	00:21	108	06:10	55S	11:56	250
2024 Feb 04 (Sun)	01:14	113	06:58	51S	12:39	245

2024 Feb 05 (Mon)	02:12 117	07:51 47S	13:28 242
2024 Feb 06 (Tue)	03:13 119	08:49 45S	14:25 240
2024 Feb 07 (Wed)	04:15 120	09:51 45S	15:28 241
2024 Feb 08 (Thu)	05:16 118	10:54 47S	16:35 243
2024 Feb 09 (Fri)	06:13 115	11:56 51S	17:42 248
2024 Feb 10 (Sat)	07:05 109	12:55 56S	18:48 254
2024 Feb 11 (Sun)	07:52 103	13:49 63S	19:51 261
2024 Feb 12 (Mon)	08:35 95	14:41 71S	20:52 269
2024 Feb 13 (Tue)	09:17 88	15:31 78S	21:50 276
2024 Feb 14 (Wed)	09:57 80	16:21 85S	22:49 283
2024 Feb 15 (Thu)	10:39 74	17:11 90N	23:48 289
2024 Feb 16 (Fri)	11:23 68	18:03 85N	
2024 Feb 17 (Sat)	12:11 64	18:57 82N	00:47 294
2024 Feb 18 (Sun)	13:02 61	19:52 79N	01:46 298
2024 Feb 19 (Mon)	13:55 60	20:47 79N	02:44 300
2024 Feb 20 (Tue)	14:51 61	21:41 80N	03:39 300
2024 Feb 21 (Wed)	15:46 63	22:32 83N	04:30 298
2024 Feb 22 (Thu)	16:39 67	23:20 86N	05:16 295
2024 Feb 23 (Fri)	17:31 71		05:57 291
2024 Feb 24 (Sat)	18:20 77	00:04 91S	06:34 286
2024 Feb 25 (Sun)	19:07 82	00:46 85S	07:08 281
2024 Feb 26 (Mon)	19:53 88	01:26 80S	07:41 275
2024 Feb 27 (Tue)	20:39 94	02:05 74S	08:12 269
2024 Feb 28 (Wed)	21:26 100	02:44 68S	08:44 263
2024 Feb 29 (Thu)	22:15 106	03:24 62S	09:18 257
2024 Mar 01 (Fri)	23:06 111	04:06 57S	09:54 252
2024 Mar 02 (Sat)		04:52 52S	10:34 247
2024 Mar 03 (Sun)	00:01 115	05:41 48S	11:20 243
2024 Mar 04 (Mon)	00:59 118	06:36 46S	12:11 241
2024 Mar 05 (Tue)	01:59 120	07:34 45S	13:09 240
2024 Mar 06 (Wed)	02:59 119	08:35 46S	14:13 241
2024 Mar 07 (Thu)	03:56 117	09:36 48S	15:18 245
2024 Mar 08 (Fri)	04:50 112	10:35 53S	16:24 250
2024 Mar 09 (Sat)	05:39 106	11:31 59S	17:28 257
2024 Mar 10 (Sun)	06:24 99	12:25 67S	18:31 265
2024 Mar 11 (Mon)	07:06 91	13:17 74S	19:32 272
2024 Mar 12 (Tue)	07:48 84	14:08 82S	20:32 280
2024 Mar 13 (Wed)	08:31 76	15:00 89S	21:33 287
2024 Mar 14 (Thu)	09:16 70	15:53 87N	22:35 293
2024 Mar 15 (Fri)	10:04 65	16:49 83N	23:37 297
2024 Mar 16 (Sat)	10:55 62	17:45 80N	
2024 Mar 17 (Sun)	11:49 60	18:42 79N	00:37 299
2024 Mar 18 (Mon)	12:45 60	19:37 79N	01:34 300
2024 Mar 19 (Tue)	13:41 62	20:29 82N	02:27 299
2024 Mar 20 (Wed)	14:35 65	21:17 85N	03:14 296
2024 Mar 21 (Thu)	15:27 70	22:03 89N	03:57 292
2024 Mar 22 (Fri)	16:16 75	22:45 87S	04:35 288
2024 Mar 23 (Sat)	17:04 80	23:25 82S	05:10 282
2024 Mar 24 (Sun)	17:51 86		05:43 277
2024 Mar 25 (Mon)	18:37 92	00:04 76S	06:14 271
2024 Mar 26 (Tue)	19:23 98	00:43 70S	06:46 265
2024 Mar 27 (Wed)	20:12 104	01:23 64S	07:19 259
2024 Mar 28 (Thu)	21:02 110	02:05 59S	07:55 253
2024 Mar 29 (Fri)	21:56 114	02:49 54S	08:33 248
2024 Mar 30 (Sat)	22:52 118	03:37 49S	09:17 244
2024 Mar 31 (Sun)	23:51 120	04:30 46S	10:06 241
2024 Apr 01 (Mon)		05:26 45S	11:00 240
2024 Apr 02 (Tue)	00:49 120	06:24 45S	12:00 241
2024 Apr 03 (Wed)	01:46 118	07:23 47S	13:03 243
2024 Apr 04 (Thu)	02:39 115	08:21 51S	14:06 248
2024 Apr 05 (Fri)	03:28 109	09:16 56S	15:09 253
2024 Apr 06 (Sat)	04:13 103	10:10 63S	16:10 260
2024 Apr 07 (Sun)	04:56 96	11:01 70S	17:11 268
2024 Apr 08 (Mon)	05:37 88	11:52 78S	18:11 276
2024 Apr 09 (Tue)	06:20 80	12:44 85S	19:13 283
2024 Apr 10 (Wed)	07:04 73	13:37 90N	20:15 290
2024 Apr 11 (Thu)	07:51 67	14:33 85N	21:19 295

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

2024 Jun 18 (Tue)	15:34 109	21:21 54S	02:27 254
2024 Jun 19 (Wed)	16:28 114	22:10 50S	03:06 249
2024 Jun 20 (Thu)	17:26 117	23:04 47S	03:50 244
2024 Jun 21 (Fri)	18:26 119		04:41 241
2024 Jun 22 (Sat)	19:26 120	00:02 45S	05:37 240
2024 Jun 23 (Sun)	20:24 118	01:02 45S	06:38 241
2024 Jun 24 (Mon)	21:17 114	02:02 47S	07:42 244
2024 Jun 25 (Tue)	22:04 109	02:59 51S	08:45 248
2024 Jun 26 (Wed)	22:48 103	03:53 57S	09:46 254
2024 Jun 27 (Thu)	23:28 96	04:44 63S	10:45 261
2024 Jun 28 (Fri)		05:33 70S	11:42 268
2024 Jun 29 (Sat)	00:07 89	06:20 77S	12:38 275
2024 Jun 30 (Sun)	00:47 81	07:08 84S	13:35 282
2024 Jul 01 (Mon)	01:28 75	07:58 90S	14:33 288
2024 Jul 02 (Tue)	02:12 69	08:51 86N	15:34 294
2024 Jul 03 (Wed)	03:00 64	09:47 82N	16:36 297
2024 Jul 04 (Thu)	03:54 61	10:45 80N	17:38 299
2024 Jul 05 (Fri)	04:51 60	11:44 79N	18:37 300
2024 Jul 06 (Sat)	05:50 61	12:41 80N	19:30 298
2024 Jul 07 (Sun)	06:49 64	13:35 83N	20:18 295
2024 Jul 08 (Mon)	07:45 67	14:25 87N	21:01 290
2024 Jul 09 (Tue)	08:38 72	15:10 90S	21:39 285
2024 Jul 10 (Wed)	09:28 78	15:52 84S	22:13 279
2024 Jul 11 (Thu)	10:15 84	16:32 78S	22:46 273
2024 Jul 12 (Fri)	11:01 90	17:11 73S	23:17 267
2024 Jul 13 (Sat)	11:47 96	17:50 67S	23:49 261
2024 Jul 14 (Sun)	12:35 102	18:30 61S	
2024 Jul 15 (Mon)	13:24 107	19:13 56S	00:23 256
2024 Jul 16 (Tue)	14:16 112	20:00 51S	01:00 250
2024 Jul 17 (Wed)	15:12 116	20:51 48S	01:42 246
2024 Jul 18 (Thu)	16:11 119	21:47 45S	02:29 242
2024 Jul 19 (Fri)	17:11 120	22:47 45S	03:23 240
2024 Jul 20 (Sat)	18:11 119	23:48 46S	04:22 240
2024 Jul 21 (Sun)	19:07 116		05:26 242
2024 Jul 22 (Mon)	19:58 111	00:47 49S	06:31 246
2024 Jul 23 (Tue)	20:44 105	01:44 54S	07:35 252
2024 Jul 24 (Wed)	21:26 98	02:38 61S	08:36 258
2024 Jul 25 (Thu)	22:07 91	03:29 68S	09:35 266
2024 Jul 26 (Fri)	22:47 83	04:17 75S	10:33 273
2024 Jul 27 (Sat)	23:27 76	05:06 82S	11:30 280
2024 Jul 28 (Sun)		05:56 88S	12:28 287
2024 Jul 29 (Mon)	00:10 70	06:47 87N	13:28 292
2024 Jul 30 (Tue)	00:57 65	07:42 83N	14:29 297
2024 Jul 31 (Wed)	01:48 62	08:38 80N	15:30 299
2024 Aug 01 (Thu)	02:44 60	09:36 79N	16:29 300
2024 Aug 02 (Fri)	03:41 61	10:33 79N	17:24 299
2024 Aug 03 (Sat)	04:39 62	11:28 82N	18:13 296
2024 Aug 04 (Sun)	05:36 66	12:19 85N	18:57 292
2024 Aug 05 (Mon)	06:30 70	13:05 90N	19:37 287
2024 Aug 06 (Tue)	07:21 76	13:48 86S	20:12 281
2024 Aug 07 (Wed)	08:09 81	14:29 81S	20:45 275
2024 Aug 08 (Thu)	08:56 87	15:08 75S	21:17 269
2024 Aug 09 (Fri)	09:42 94	15:47 69S	21:49 263
2024 Aug 10 (Sat)	10:28 100	16:26 63S	22:21 258
2024 Aug 11 (Sun)	11:16 105	17:08 58S	22:56 252
2024 Aug 12 (Mon)	12:06 110	17:52 53S	23:35 248
2024 Aug 13 (Tue)	13:00 115	18:40 49S	
2024 Aug 14 (Wed)	13:56 118	19:33 46S	00:19 244
2024 Aug 15 (Thu)	14:55 120	20:30 45S	01:09 241
2024 Aug 16 (Fri)	15:54 120	21:30 45S	02:05 240
2024 Aug 17 (Sat)	16:52 118	22:30 48S	03:06 241
2024 Aug 18 (Sun)	17:45 114	23:29 52S	04:11 244
2024 Aug 19 (Mon)	18:34 108		05:16 249
2024 Aug 20 (Tue)	19:19 101	00:25 58S	06:19 255
2024 Aug 21 (Wed)	20:02 94	01:18 64S	07:21 262
2024 Aug 22 (Thu)	20:43 86	02:09 72S	08:21 270
2024 Aug 23 (Fri)	21:24 79	02:59 79S	09:20 278

2024 Aug 24 (Sat)	22:08	72	03:50	86S	10:20	285
2024 Aug 25 (Sun)	22:54	67	04:42	89N	11:21	291
2024 Aug 26 (Mon)	23:45	63	05:37	84N	12:23	296
2024 Aug 27 (Tue)			06:34	80N	13:25	299
2024 Aug 28 (Wed)	00:39	60	07:31	79N	14:25	300
2024 Aug 29 (Thu)	01:36	60	08:29	79N	15:20	299
2024 Aug 30 (Fri)	02:34	62	09:24	81N	16:11	297
2024 Aug 31 (Sat)	03:30	64	10:15	84N	16:56	293
2024 Sep 01 (Sun)	04:25	69	11:02	88N	17:36	289
2024 Sep 02 (Mon)	05:16	74	11:46	88S	18:13	283
2024 Sep 03 (Tue)	06:05	79	12:27	83S	18:46	278
2024 Sep 04 (Wed)	06:52	85	13:07	77S	19:18	272
2024 Sep 05 (Thu)	07:38	92	13:46	71S	19:50	265
2024 Sep 06 (Fri)	08:24	98	14:25	65S	20:22	260
2024 Sep 07 (Sat)	09:11	103	15:05	59S	20:56	254
2024 Sep 08 (Sun)	10:00	109	15:48	54S	21:33	249
2024 Sep 09 (Mon)	10:52	113	16:34	50S	22:14	245
2024 Sep 10 (Tue)	11:46	117	17:24	47S	23:00	242
2024 Sep 11 (Wed)	12:43	119	18:18	45S	23:52	240
2024 Sep 12 (Thu)	13:40	120	19:15	45S		
2024 Sep 13 (Fri)	14:37	119	20:13	46S	00:50	240
2024 Sep 14 (Sat)	15:31	116	21:12	49S	01:51	242
2024 Sep 15 (Sun)	16:21	111	22:08	54S	02:55	246
2024 Sep 16 (Mon)	17:08	105	23:02	61S	03:58	252
2024 Sep 17 (Tue)	17:52	98	23:55	68S	05:01	258
2024 Sep 18 (Wed)	18:34	90			06:02	266
2024 Sep 19 (Thu)	19:16	82	00:46	76S	07:03	274
2024 Sep 20 (Fri)	20:00	75	01:38	83S	08:04	282
2024 Sep 21 (Sat)	20:47	69	02:31	90S	09:07	289
2024 Sep 22 (Sun)	21:37	64	03:27	86N	10:11	294
2024 Sep 23 (Mon)	22:32	61	04:25	81N	11:15	298
2024 Sep 24 (Tue)	23:30	60	05:24	79N	12:18	300
2024 Sep 25 (Wed)			06:23	79N	13:16	300
2024 Sep 26 (Thu)	00:28	61	07:20	80N	14:09	298
2024 Sep 27 (Fri)	01:26	63	08:12	83N	14:56	295
2024 Sep 28 (Sat)	02:21	67	09:01	87N	15:37	290
2024 Sep 29 (Sun)	03:13	72	09:45	90S	16:14	285
2024 Sep 30 (Mon)	04:02	78	10:27	84S	16:48	279
2024 Oct 01 (Tue)	04:49	83	11:07	79S	17:20	274
2024 Oct 02 (Wed)	05:35	90	11:45	73S	17:52	267
2024 Oct 03 (Thu)	06:21	96	12:24	67S	18:24	261
2024 Oct 04 (Fri)	07:08	102	13:04	61S	18:57	256
2024 Oct 05 (Sat)	07:57	107	13:46	56S	19:33	251
2024 Oct 06 (Sun)	08:47	112	14:31	51S	20:12	246
2024 Oct 07 (Mon)	09:40	116	15:19	48S	20:56	243
2024 Oct 08 (Tue)	10:36	119	16:11	45S	21:46	240
2024 Oct 09 (Wed)	11:32	120	17:06	45S	22:40	240
2024 Oct 10 (Thu)	12:28	120	18:02	45S	23:38	241
2024 Oct 11 (Fri)	13:21	118	18:59	48S		
2024 Oct 12 (Sat)	14:11	114	19:54	52S	00:39	244
2024 Oct 13 (Sun)	14:57	108	20:47	57S	01:40	249
2024 Oct 14 (Mon)	15:41	102	21:39	64S	02:41	255
2024 Oct 15 (Tue)	16:23	94	22:30	72S	03:42	262
2024 Oct 16 (Wed)	17:05	86	23:21	79S	04:42	270
2024 Oct 17 (Thu)	17:48	79			05:43	278
2024 Oct 18 (Fri)	18:34	72	00:14	87S	06:46	285
2024 Oct 19 (Sat)	19:24	66	01:10	88N	07:51	291
2024 Oct 20 (Sun)	20:19	62	02:09	83N	08:57	296
2024 Oct 21 (Mon)	21:18	60	03:10	80N	10:03	299
2024 Oct 22 (Tue)	22:18	60	04:11	79N	11:05	300
2024 Oct 23 (Wed)	23:18	62	05:11	79N	12:02	299
2024 Oct 24 (Thu)			06:06	82N	12:52	296
2024 Oct 25 (Fri)	00:15	66	06:57	85N	13:36	292
2024 Oct 26 (Sat)	01:08	70	07:43	90N	14:15	287
2024 Oct 27 (Sun)	01:59	76	08:26	86S	14:50	281
2024 Oct 28 (Mon)	02:47	81	09:06	80S	15:22	275
2024 Oct 29 (Tue)	03:33	87	09:45	75S	15:54	269

2024 Oct 30 (Wed)	04:19 94	10:24 69S	16:25 263
2024 Oct 31 (Thu)	05:05 100	11:03 63S	16:58 258
2024 Nov 01 (Fri)	05:53 105	11:45 58S	17:33 252
2024 Nov 02 (Sat)	06:43 110	12:29 53S	18:12 247
2024 Nov 03 (Sun)	07:36 115	13:16 49S	18:55 244
2024 Nov 04 (Mon)	08:31 118	14:07 46S	19:43 241
2024 Nov 05 (Tue)	09:27 120	15:01 45S	20:35 240
2024 Nov 06 (Wed)	10:23 120	15:57 45S	21:32 241
2024 Nov 07 (Thu)	11:16 118	16:53 47S	22:31 243
2024 Nov 08 (Fri)	12:06 115	17:47 50S	23:31 247
2024 Nov 09 (Sat)	12:52 110	18:39 55S	
2024 Nov 10 (Sun)	13:35 104	19:29 61S	00:30 252
2024 Nov 11 (Mon)	14:16 97	20:18 68S	01:28 259
2024 Nov 12 (Tue)	14:56 90	21:08 75S	02:25 266
2024 Nov 13 (Wed)	15:37 83	21:58 83S	03:24 274
2024 Nov 14 (Thu)	16:20 75	22:51 90S	04:24 281
2024 Nov 15 (Fri)	17:08 69	23:48 86N	05:27 288
2024 Nov 16 (Sat)	18:01 64		06:33 294
2024 Nov 17 (Sun)	18:59 61	00:49 82N	07:40 298
2024 Nov 18 (Mon)	20:01 60	01:52 79N	08:46 300
2024 Nov 19 (Tue)	21:03 61	02:55 79N	09:48 299
2024 Nov 20 (Wed)	22:03 64	03:54 81N	10:43 297
2024 Nov 21 (Thu)	23:00 69	04:48 84N	11:30 293
2024 Nov 22 (Fri)	23:52 74	05:38 88N	12:12 289
2024 Nov 23 (Sat)		06:22 88S	12:49 283
2024 Nov 24 (Sun)	00:42 79	07:04 82S	13:22 277
2024 Nov 25 (Mon)	01:29 85	07:43 77S	13:54 271
2024 Nov 26 (Tue)	02:15 92	08:22 71S	14:26 265
2024 Nov 27 (Wed)	03:01 98	09:01 65S	14:58 260
2024 Nov 28 (Thu)	03:48 103	09:42 59S	15:33 254
2024 Nov 29 (Fri)	04:37 109	10:25 54S	16:10 249
2024 Nov 30 (Sat)	05:29 113	11:12 50S	16:52 245
2024 Dec 01 (Sun)	06:24 117	12:02 47S	17:38 242
2024 Dec 02 (Mon)	07:21 119	12:56 45S	18:31 240
2024 Dec 03 (Tue)	08:18 120	13:52 45S	19:27 240
2024 Dec 04 (Wed)	09:12 119	14:48 46S	20:26 242
2024 Dec 05 (Thu)	10:04 116	15:43 49S	21:26 246
2024 Dec 06 (Fri)	10:51 112	16:36 54S	22:24 251
2024 Dec 07 (Sat)	11:34 106	17:26 59S	23:22 257
2024 Dec 08 (Sun)	12:14 100	18:14 66S	
2024 Dec 09 (Mon)	12:53 93	19:01 73S	00:18 264
2024 Dec 10 (Tue)	13:32 85	19:49 80S	01:14 271
2024 Dec 11 (Wed)	14:13 78	20:39 87S	02:11 278
2024 Dec 12 (Thu)	14:57 72	21:33 88N	03:10 285
2024 Dec 13 (Fri)	15:46 66	22:30 83N	04:13 291
2024 Dec 14 (Sat)	16:41 62	23:32 80N	05:18 296
2024 Dec 15 (Sun)	17:41 60		06:25 299
2024 Dec 16 (Mon)	18:43 61	00:35 79N	07:29 300
2024 Dec 17 (Tue)	19:46 63	01:36 80N	08:28 298
2024 Dec 18 (Wed)	20:46 67	02:34 82N	09:20 295
2024 Dec 19 (Thu)	21:41 72	03:27 86N	10:05 291
2024 Dec 20 (Fri)	22:33 77	04:15 90S	10:45 285
2024 Dec 21 (Sat)	23:22 83	04:58 85S	11:20 280
2024 Dec 22 (Sun)		05:39 79S	11:53 274
2024 Dec 23 (Mon)	00:08 89	06:18 73S	12:25 268
2024 Dec 24 (Tue)	00:54 95	06:57 67S	12:57 262
2024 Dec 25 (Wed)	01:41 101	07:37 61S	13:30 256
2024 Dec 26 (Thu)	02:29 107	08:19 56S	14:06 251
2024 Dec 27 (Fri)	03:20 112	09:04 52S	14:46 246
2024 Dec 28 (Sat)	04:14 116	09:54 48S	15:31 243
2024 Dec 29 (Sun)	05:10 119	10:47 46S	16:22 241
2024 Dec 30 (Mon)	06:08 120	11:43 45S	17:17 240
2024 Dec 31 (Tue)	07:05 119	12:40 46S	18:17 241