

Sun

VTMU

Location: E101°00'00.0", N12°41'00.0", 59m
(Longitude referred to Greenwich meridian)

Time Zone: 7h 00m east of Greenwich

Date (Zone)	Begin Nautical Twilight	Rise	Az.	Transit Alt.	Set	Az.	End Nautical Twilight
	h m	h m °		h m °	h m °		h m
2024 Jan 01 (Mon)	05:48	06:37 113		12:19 55S	18:01 247		18:51
2024 Jan 02 (Tue)	05:48	06:38 113		12:20 55S	18:02 247		18:51
2024 Jan 03 (Wed)	05:49	06:38 113		12:20 55S	18:02 247		18:52
2024 Jan 04 (Thu)	05:49	06:38 113		12:21 55S	18:03 247		18:52
2024 Jan 05 (Fri)	05:49	06:39 113		12:21 55S	18:03 247		18:53
2024 Jan 06 (Sat)	05:50	06:39 113		12:21 55S	18:04 247		18:53
2024 Jan 07 (Sun)	05:50	06:39 113		12:22 56S	18:04 247		18:54
2024 Jan 08 (Mon)	05:51	06:40 113		12:22 56S	18:05 247		18:54
2024 Jan 09 (Tue)	05:51	06:40 113		12:23 56S	18:06 247		18:55
2024 Jan 10 (Wed)	05:51	06:40 112		12:23 56S	18:06 248		18:55
2024 Jan 11 (Thu)	05:52	06:41 112		12:24 56S	18:07 248		18:56
2024 Jan 12 (Fri)	05:52	06:41 112		12:24 56S	18:07 248		18:56
2024 Jan 13 (Sat)	05:52	06:41 112		12:24 56S	18:08 248		18:57
2024 Jan 14 (Sun)	05:52	06:41 112		12:25 57S	18:08 248		18:57
2024 Jan 15 (Mon)	05:53	06:41 112		12:25 57S	18:09 248		18:58
2024 Jan 16 (Tue)	05:53	06:42 111		12:25 57S	18:09 249		18:58
2024 Jan 17 (Wed)	05:53	06:42 111		12:26 57S	18:10 249		18:59
2024 Jan 18 (Thu)	05:53	06:42 111		12:26 57S	18:11 249		18:59
2024 Jan 19 (Fri)	05:53	06:42 111		12:26 58S	18:11 249		19:00
2024 Jan 20 (Sat)	05:54	06:42 111		12:27 58S	18:12 249		19:00
2024 Jan 21 (Sun)	05:54	06:42 110		12:27 58S	18:12 250		19:01
2024 Jan 22 (Mon)	05:54	06:42 110		12:27 58S	18:13 250		19:01
2024 Jan 23 (Tue)	05:54	06:42 110		12:28 58S	18:13 250		19:01
2024 Jan 24 (Wed)	05:54	06:42 110		12:28 59S	18:14 250		19:02
2024 Jan 25 (Thu)	05:54	06:42 109		12:28 59S	18:14 251		19:02
2024 Jan 26 (Fri)	05:54	06:42 109		12:28 59S	18:14 251		19:03
2024 Jan 27 (Sat)	05:54	06:42 109		12:29 59S	18:15 251		19:03
2024 Jan 28 (Sun)	05:54	06:42 109		12:29 60S	18:15 251		19:03
2024 Jan 29 (Mon)	05:54	06:42 108		12:29 60S	18:16 252		19:04
2024 Jan 30 (Tue)	05:54	06:42 108		12:29 60S	18:16 252		19:04
2024 Jan 31 (Wed)	05:54	06:42 108		12:29 61S	18:17 252		19:04
2024 Feb 01 (Thu)	05:54	06:42 108		12:29 61S	18:17 253		19:05
2024 Feb 02 (Fri)	05:54	06:42 107		12:30 61S	18:18 253		19:05
2024 Feb 03 (Sat)	05:54	06:42 107		12:30 61S	18:18 253		19:05
2024 Feb 04 (Sun)	05:54	06:41 107		12:30 62S	18:18 253		19:06
2024 Feb 05 (Mon)	05:54	06:41 106		12:30 62S	18:19 254		19:06
2024 Feb 06 (Tue)	05:54	06:41 106		12:30 62S	18:19 254		19:06
2024 Feb 07 (Wed)	05:54	06:41 106		12:30 63S	18:19 254		19:07
2024 Feb 08 (Thu)	05:53	06:41 105		12:30 63S	18:20 255		19:07
2024 Feb 09 (Fri)	05:53	06:40 105		12:30 63S	18:20 255		19:07
2024 Feb 10 (Sat)	05:53	06:40 105		12:30 64S	18:20 255		19:08
2024 Feb 11 (Sun)	05:53	06:40 104		12:30 64S	18:21 256		19:08
2024 Feb 12 (Mon)	05:53	06:39 104		12:30 64S	18:21 256		19:08
2024 Feb 13 (Tue)	05:52	06:39 104		12:30 65S	18:21 256		19:08
2024 Feb 14 (Wed)	05:52	06:39 103		12:30 65S	18:22 257		19:08
2024 Feb 15 (Thu)	05:52	06:38 103		12:30 65S	18:22 257		19:09
2024 Feb 16 (Fri)	05:51	06:38 103		12:30 66S	18:22 257		19:09
2024 Feb 17 (Sat)	05:51	06:38 102		12:30 66S	18:22 258		19:09
2024 Feb 18 (Sun)	05:51	06:37 102		12:30 66S	18:23 258		19:09
2024 Feb 19 (Mon)	05:50	06:37 102		12:30 67S	18:23 259		19:09
2024 Feb 20 (Tue)	05:50	06:37 101		12:30 67S	18:23 259		19:10
2024 Feb 21 (Wed)	05:50	06:36 101		12:30 67S	18:23 259		19:10
2024 Feb 22 (Thu)	05:49	06:36 101		12:30 68S	18:24 260		19:10
2024 Feb 23 (Fri)	05:49	06:35 100		12:29 68S	18:24 260		19:10
2024 Feb 24 (Sat)	05:48	06:35 100		12:29 68S	18:24 260		19:10

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

2024	May	02	(Thu)	05:07	05:55	74	12:13	88N	18:31	286	19:19
2024	May	03	(Fri)	05:07	05:55	74	12:13	88N	18:31	287	19:19
2024	May	04	(Sat)	05:06	05:54	73	12:13	87N	18:31	287	19:20
2024	May	05	(Sun)	05:06	05:54	73	12:13	87N	18:31	287	19:20
2024	May	06	(Mon)	05:05	05:54	73	12:13	87N	18:32	287	19:20
2024	May	07	(Tue)	05:05	05:53	72	12:13	86N	18:32	288	19:20
2024	May	08	(Wed)	05:04	05:53	72	12:12	86N	18:32	288	19:21
2024	May	09	(Thu)	05:04	05:53	72	12:12	86N	18:32	288	19:21
2024	May	10	(Fri)	05:04	05:52	72	12:12	86N	18:33	288	19:21
2024	May	11	(Sat)	05:03	05:52	71	12:12	85N	18:33	289	19:22
2024	May	12	(Sun)	05:03	05:52	71	12:12	85N	18:33	289	19:22
2024	May	13	(Mon)	05:03	05:52	71	12:12	85N	18:33	289	19:22
2024	May	14	(Tue)	05:02	05:51	71	12:12	85N	18:34	290	19:23
2024	May	15	(Wed)	05:02	05:51	70	12:12	84N	18:34	290	19:23
2024	May	16	(Thu)	05:02	05:51	70	12:12	84N	18:34	290	19:23
2024	May	17	(Fri)	05:01	05:51	70	12:12	84N	18:34	290	19:24
2024	May	18	(Sat)	05:01	05:50	70	12:12	84N	18:35	290	19:24
2024	May	19	(Sun)	05:01	05:50	69	12:13	84N	18:35	291	19:24
2024	May	20	(Mon)	05:01	05:50	69	12:13	83N	18:35	291	19:25
2024	May	21	(Tue)	05:00	05:50	69	12:13	83N	18:35	291	19:25
2024	May	22	(Wed)	05:00	05:50	69	12:13	83N	18:36	291	19:25
2024	May	23	(Thu)	05:00	05:50	69	12:13	83N	18:36	291	19:26
2024	May	24	(Fri)	05:00	05:50	68	12:13	83N	18:36	292	19:26
2024	May	25	(Sat)	05:00	05:49	68	12:13	82N	18:37	292	19:26
2024	May	26	(Sun)	04:59	05:49	68	12:13	82N	18:37	292	19:27
2024	May	27	(Mon)	04:59	05:49	68	12:13	82N	18:37	292	19:27
2024	May	28	(Tue)	04:59	05:49	68	12:13	82N	18:37	292	19:28
2024	May	29	(Wed)	04:59	05:49	68	12:13	82N	18:38	293	19:28
2024	May	30	(Thu)	04:59	05:49	67	12:14	82N	18:38	293	19:28
2024	May	31	(Fri)	04:59	05:49	67	12:14	81N	18:38	293	19:29
2024	Jun	01	(Sat)	04:59	05:49	67	12:14	81N	18:39	293	19:29
2024	Jun	02	(Sun)	04:59	05:49	67	12:14	81N	18:39	293	19:29
2024	Jun	03	(Mon)	04:59	05:49	67	12:14	81N	18:39	293	19:30
2024	Jun	04	(Tue)	04:59	05:49	67	12:14	81N	18:40	293	19:30
2024	Jun	05	(Wed)	04:59	05:49	67	12:15	81N	18:40	293	19:30
2024	Jun	06	(Thu)	04:59	05:49	67	12:15	81N	18:40	294	19:31
2024	Jun	07	(Fri)	04:59	05:50	66	12:15	81N	18:40	294	19:31
2024	Jun	08	(Sat)	04:59	05:50	66	12:15	81N	18:41	294	19:31
2024	Jun	09	(Sun)	04:59	05:50	66	12:15	80N	18:41	294	19:32
2024	Jun	10	(Mon)	04:59	05:50	66	12:16	80N	18:41	294	19:32
2024	Jun	11	(Tue)	04:59	05:50	66	12:16	80N	18:42	294	19:32
2024	Jun	12	(Wed)	04:59	05:50	66	12:16	80N	18:42	294	19:33
2024	Jun	13	(Thu)	04:59	05:50	66	12:16	80N	18:42	294	19:33
2024	Jun	14	(Fri)	05:00	05:50	66	12:16	80N	18:42	294	19:33
2024	Jun	15	(Sat)	05:00	05:51	66	12:17	80N	18:43	294	19:34
2024	Jun	16	(Sun)	05:00	05:51	66	12:17	80N	18:43	294	19:34
2024	Jun	17	(Mon)	05:00	05:51	66	12:17	80N	18:43	294	19:34
2024	Jun	18	(Tue)	05:00	05:51	66	12:17	80N	18:43	294	19:34
2024	Jun	19	(Wed)	05:00	05:51	66	12:17	80N	18:44	294	19:35
2024	Jun	20	(Thu)	05:01	05:51	66	12:18	80N	18:44	294	19:35
2024	Jun	21	(Fri)	05:01	05:52	66	12:18	80N	18:44	294	19:35
2024	Jun	22	(Sat)	05:01	05:52	66	12:18	80N	18:44	294	19:35
2024	Jun	23	(Sun)	05:01	05:52	66	12:18	80N	18:44	294	19:35
2024	Jun	24	(Mon)	05:01	05:52	66	12:19	80N	18:45	294	19:36
2024	Jun	25	(Tue)	05:02	05:53	66	12:19	80N	18:45	294	19:36
2024	Jun	26	(Wed)	05:02	05:53	66	12:19	80N	18:45	294	19:36
2024	Jun	27	(Thu)	05:02	05:53	66	12:19	80N	18:45	294	19:36
2024	Jun	28	(Fri)	05:03	05:53	66	12:19	80N	18:45	294	19:36
2024	Jun	29	(Sat)	05:03	05:54	66	12:20	80N	18:45	294	19:36
2024	Jun	30	(Sun)	05:03	05:54	66	12:20	80N	18:46	294	19:36
2024	Jul	01	(Mon)	05:03	05:54	66	12:20	80N	18:46	294	19:36
2024	Jul	02	(Tue)	05:04	05:54	66	12:20	80N	18:46	294	19:36
2024	Jul	03	(Wed)	05:04	05:55	66	12:20	80N	18:46	294	19:37
2024	Jul	04	(Thu)	05:04	05:55	66	12:20	81N	18:46	294	19:37
2024	Jul	05	(Fri)	05:05	05:55	66	12:21	81N	18:46	294	19:37
2024	Jul	06	(Sat)	05:05	05:56	67	12:21	81N	18:46	293	19:37
2024	Jul	07	(Sun)	05:05	05:56	67	12:21	81N	18:46	293	19:37

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

2024	Sep	13	(Fri)	05:19	06:05	86	12:12	82S	18:18	274	19:04
2024	Sep	14	(Sat)	05:19	06:05	86	12:11	81S	18:18	273	19:04
2024	Sep	15	(Sun)	05:19	06:05	87	12:11	81S	18:17	273	19:03
2024	Sep	16	(Mon)	05:19	06:05	87	12:11	80S	18:16	273	19:02
2024	Sep	17	(Tue)	05:19	06:05	88	12:10	80S	18:15	272	19:01
2024	Sep	18	(Wed)	05:19	06:05	88	12:10	80S	18:15	272	19:01
2024	Sep	19	(Thu)	05:19	06:05	88	12:10	79S	18:14	271	19:00
2024	Sep	20	(Fri)	05:19	06:05	89	12:09	79S	18:13	271	18:59
2024	Sep	21	(Sat)	05:19	06:05	89	12:09	79S	18:13	271	18:58
2024	Sep	22	(Sun)	05:19	06:05	90	12:09	78S	18:12	270	18:58
2024	Sep	23	(Mon)	05:19	06:05	90	12:08	78S	18:11	270	18:57
2024	Sep	24	(Tue)	05:19	06:05	90	12:08	77S	18:11	269	18:56
2024	Sep	25	(Wed)	05:19	06:05	91	12:08	77S	18:10	269	18:56
2024	Sep	26	(Thu)	05:19	06:05	91	12:07	77S	18:09	269	18:55
2024	Sep	27	(Fri)	05:19	06:05	92	12:07	76S	18:08	268	18:54
2024	Sep	28	(Sat)	05:19	06:05	92	12:07	76S	18:08	268	18:54
2024	Sep	29	(Sun)	05:19	06:05	92	12:06	75S	18:07	267	18:53
2024	Sep	30	(Mon)	05:19	06:05	93	12:06	75S	18:06	267	18:52
2024	Oct	01	(Tue)	05:19	06:05	93	12:06	75S	18:06	267	18:52
2024	Oct	02	(Wed)	05:19	06:05	94	12:05	74S	18:05	266	18:51
2024	Oct	03	(Thu)	05:19	06:05	94	12:05	74S	18:04	266	18:50
2024	Oct	04	(Fri)	05:19	06:05	94	12:05	73S	18:04	265	18:50
2024	Oct	05	(Sat)	05:19	06:05	95	12:04	73S	18:03	265	18:49
2024	Oct	06	(Sun)	05:20	06:05	95	12:04	73S	18:03	265	18:48
2024	Oct	07	(Mon)	05:20	06:05	96	12:04	72S	18:02	264	18:48
2024	Oct	08	(Tue)	05:20	06:06	96	12:03	72S	18:01	264	18:47
2024	Oct	09	(Wed)	05:20	06:06	96	12:03	72S	18:01	263	18:47
2024	Oct	10	(Thu)	05:20	06:06	97	12:03	71S	18:00	263	18:46
2024	Oct	11	(Fri)	05:20	06:06	97	12:03	71S	17:59	263	18:45
2024	Oct	12	(Sat)	05:20	06:06	97	12:02	70S	17:59	262	18:45
2024	Oct	13	(Sun)	05:20	06:06	98	12:02	70S	17:58	262	18:44
2024	Oct	14	(Mon)	05:20	06:06	98	12:02	70S	17:58	262	18:44
2024	Oct	15	(Tue)	05:20	06:06	99	12:02	69S	17:57	261	18:43
2024	Oct	16	(Wed)	05:20	06:06	99	12:02	69S	17:57	261	18:43
2024	Oct	17	(Thu)	05:20	06:06	99	12:01	69S	17:56	260	18:42
2024	Oct	18	(Fri)	05:20	06:07	100	12:01	68S	17:56	260	18:42
2024	Oct	19	(Sat)	05:20	06:07	100	12:01	68S	17:55	260	18:41
2024	Oct	20	(Sun)	05:20	06:07	100	12:01	68S	17:55	259	18:41
2024	Oct	21	(Mon)	05:21	06:07	101	12:01	67S	17:54	259	18:40
2024	Oct	22	(Tue)	05:21	06:07	101	12:00	67S	17:54	259	18:40
2024	Oct	23	(Wed)	05:21	06:07	102	12:00	66S	17:53	258	18:40
2024	Oct	24	(Thu)	05:21	06:08	102	12:00	66S	17:53	258	18:39
2024	Oct	25	(Fri)	05:21	06:08	102	12:00	66S	17:52	258	18:39
2024	Oct	26	(Sat)	05:21	06:08	103	12:00	65S	17:52	257	18:39
2024	Oct	27	(Sun)	05:21	06:08	103	12:00	65S	17:51	257	18:38
2024	Oct	28	(Mon)	05:22	06:08	103	12:00	65S	17:51	256	18:38
2024	Oct	29	(Tue)	05:22	06:09	104	12:00	64S	17:51	256	18:38
2024	Oct	30	(Wed)	05:22	06:09	104	12:00	64S	17:50	256	18:37
2024	Oct	31	(Thu)	05:22	06:09	104	12:00	64S	17:50	255	18:37
2024	Nov	01	(Fri)	05:22	06:09	105	12:00	63S	17:50	255	18:37
2024	Nov	02	(Sat)	05:23	06:10	105	12:00	63S	17:49	255	18:36
2024	Nov	03	(Sun)	05:23	06:10	105	12:00	63S	17:49	255	18:36
2024	Nov	04	(Mon)	05:23	06:10	106	12:00	63S	17:49	254	18:36
2024	Nov	05	(Tue)	05:23	06:11	106	12:00	62S	17:48	254	18:36
2024	Nov	06	(Wed)	05:23	06:11	106	12:00	62S	17:48	254	18:36
2024	Nov	07	(Thu)	05:24	06:11	107	12:00	62S	17:48	253	18:36
2024	Nov	08	(Fri)	05:24	06:12	107	12:00	61S	17:48	253	18:35
2024	Nov	09	(Sat)	05:24	06:12	107	12:00	61S	17:48	253	18:35
2024	Nov	10	(Sun)	05:25	06:12	107	12:00	61S	17:47	252	18:35
2024	Nov	11	(Mon)	05:25	06:13	108	12:00	60S	17:47	252	18:35
2024	Nov	12	(Tue)	05:25	06:13	108	12:00	60S	17:47	252	18:35
2024	Nov	13	(Wed)	05:26	06:13	108	12:00	60S	17:47	252	18:35
2024	Nov	14	(Thu)	05:26	06:14	109	12:00	60S	17:47	251	18:35
2024	Nov	15	(Fri)	05:26	06:14	109	12:01	59S	17:47	251	18:35
2024	Nov	16	(Sat)	05:27	06:15	109	12:01	59S	17:47	251	18:35
2024	Nov	17	(Sun)	05:27	06:15	109	12:01	59S	17:47	251	18:35
2024	Nov	18	(Mon)	05:27	06:16	110	12:01	59S	17:47	250	18:35

2024	Nov	19	(Tue)	05:28	06:16	110	12:01	58S	17:47	250	18:35
2024	Nov	20	(Wed)	05:28	06:16	110	12:02	58S	17:47	250	18:35
2024	Nov	21	(Thu)	05:28	06:17	110	12:02	58S	17:47	250	18:35
2024	Nov	22	(Fri)	05:29	06:17	111	12:02	58S	17:47	249	18:35
2024	Nov	23	(Sat)	05:29	06:18	111	12:02	58S	17:47	249	18:35
2024	Nov	24	(Sun)	05:30	06:18	111	12:03	57S	17:47	249	18:36
2024	Nov	25	(Mon)	05:30	06:19	111	12:03	57S	17:47	249	18:36
2024	Nov	26	(Tue)	05:31	06:19	111	12:03	57S	17:47	249	18:36
2024	Nov	27	(Wed)	05:31	06:20	112	12:04	57S	17:47	248	18:36
2024	Nov	28	(Thu)	05:32	06:20	112	12:04	57S	17:48	248	18:36
2024	Nov	29	(Fri)	05:32	06:21	112	12:04	56S	17:48	248	18:37
2024	Nov	30	(Sat)	05:32	06:21	112	12:05	56S	17:48	248	18:37
2024	Dec	01	(Sun)	05:33	06:22	112	12:05	56S	17:48	248	18:37
2024	Dec	02	(Mon)	05:33	06:23	112	12:05	56S	17:48	248	18:37
2024	Dec	03	(Tue)	05:34	06:23	113	12:06	56S	17:49	247	18:38
2024	Dec	04	(Wed)	05:34	06:24	113	12:06	56S	17:49	247	18:38
2024	Dec	05	(Thu)	05:35	06:24	113	12:07	56S	17:49	247	18:38
2024	Dec	06	(Fri)	05:35	06:25	113	12:07	55S	17:49	247	18:39
2024	Dec	07	(Sat)	05:36	06:25	113	12:08	55S	17:50	247	18:39
2024	Dec	08	(Sun)	05:36	06:26	113	12:08	55S	17:50	247	18:39
2024	Dec	09	(Mon)	05:37	06:26	113	12:08	55S	17:50	247	18:40
2024	Dec	10	(Tue)	05:37	06:27	113	12:09	55S	17:51	247	18:40
2024	Dec	11	(Wed)	05:38	06:27	113	12:09	55S	17:51	247	18:41
2024	Dec	12	(Thu)	05:38	06:28	114	12:10	55S	17:52	246	18:41
2024	Dec	13	(Fri)	05:39	06:29	114	12:10	55S	17:52	246	18:42
2024	Dec	14	(Sat)	05:40	06:29	114	12:11	55S	17:52	246	18:42
2024	Dec	15	(Sun)	05:40	06:30	114	12:11	55S	17:53	246	18:42
2024	Dec	16	(Mon)	05:41	06:30	114	12:12	55S	17:53	246	18:43
2024	Dec	17	(Tue)	05:41	06:31	114	12:12	55S	17:54	246	18:43
2024	Dec	18	(Wed)	05:42	06:31	114	12:13	55S	17:54	246	18:44
2024	Dec	19	(Thu)	05:42	06:32	114	12:13	55S	17:55	246	18:44
2024	Dec	20	(Fri)	05:43	06:32	114	12:14	55S	17:55	246	18:45
2024	Dec	21	(Sat)	05:43	06:33	114	12:14	55S	17:56	246	18:45
2024	Dec	22	(Sun)	05:44	06:33	114	12:15	55S	17:56	246	18:46
2024	Dec	23	(Mon)	05:44	06:34	114	12:15	55S	17:57	246	18:46
2024	Dec	24	(Tue)	05:45	06:34	114	12:16	55S	17:57	246	18:47
2024	Dec	25	(Wed)	05:45	06:35	114	12:16	55S	17:58	246	18:47
2024	Dec	26	(Thu)	05:46	06:35	114	12:17	55S	17:58	246	18:48
2024	Dec	27	(Fri)	05:46	06:36	114	12:17	55S	17:59	246	18:48
2024	Dec	28	(Sat)	05:46	06:36	114	12:18	55S	17:59	246	18:49
2024	Dec	29	(Sun)	05:47	06:36	114	12:18	55S	18:00	246	18:49
2024	Dec	30	(Mon)	05:47	06:37	114	12:19	55S	18:00	246	18:50
2024	Dec	31	(Tue)	05:48	06:37	113	12:19	55S	18:01	247	18:50

Sun

VTMU

Location: E101°00'00.0", N12°41'00.0", 59m
(Longitude referred to Greenwich meridian)

Time Zone: 7h 00m east of Greenwich

Date (Zone)	Begin Civil Twilight h m	Rise h m °	Az. °	Transit h m °	Alt. °	Set h m °	Az. °	End Civil Twilight h m			
2024	Jan	01	(Mon)	06:14	06:37	113	12:19	55S	18:01	247	18:24
2024	Jan	02	(Tue)	06:15	06:38	113	12:20	55S	18:02	247	18:25
2024	Jan	03	(Wed)	06:15	06:38	113	12:20	55S	18:02	247	18:25
2024	Jan	04	(Thu)	06:16	06:38	113	12:21	55S	18:03	247	18:26
2024	Jan	05	(Fri)	06:16	06:39	113	12:21	55S	18:03	247	18:26
2024	Jan	06	(Sat)	06:16	06:39	113	12:21	55S	18:04	247	18:27
2024	Jan	07	(Sun)	06:17	06:39	113	12:22	56S	18:04	247	18:27
2024	Jan	08	(Mon)	06:17	06:40	113	12:22	56S	18:05	247	18:28
2024	Jan	09	(Tue)	06:17	06:40	113	12:23	56S	18:06	247	18:28
2024	Jan	10	(Wed)	06:18	06:40	112	12:23	56S	18:06	248	18:29
2024	Jan	11	(Thu)	06:18	06:41	112	12:24	56S	18:07	248	18:29

2024	Jan	12	(Fri)	06:18	06:41	112	12:24	56S	18:07	248	18:30
2024	Jan	13	(Sat)	06:18	06:41	112	12:24	56S	18:08	248	18:31
2024	Jan	14	(Sun)	06:19	06:41	112	12:25	57S	18:08	248	18:31
2024	Jan	15	(Mon)	06:19	06:41	112	12:25	57S	18:09	248	18:32
2024	Jan	16	(Tue)	06:19	06:42	111	12:25	57S	18:09	249	18:32
2024	Jan	17	(Wed)	06:19	06:42	111	12:26	57S	18:10	249	18:33
2024	Jan	18	(Thu)	06:19	06:42	111	12:26	57S	18:11	249	18:33
2024	Jan	19	(Fri)	06:19	06:42	111	12:26	58S	18:11	249	18:34
2024	Jan	20	(Sat)	06:20	06:42	111	12:27	58S	18:12	249	18:34
2024	Jan	21	(Sun)	06:20	06:42	110	12:27	58S	18:12	250	18:35
2024	Jan	22	(Mon)	06:20	06:42	110	12:27	58S	18:13	250	18:35
2024	Jan	23	(Tue)	06:20	06:42	110	12:28	58S	18:13	250	18:35
2024	Jan	24	(Wed)	06:20	06:42	110	12:28	59S	18:14	250	18:36
2024	Jan	25	(Thu)	06:20	06:42	109	12:28	59S	18:14	251	18:36
2024	Jan	26	(Fri)	06:20	06:42	109	12:28	59S	18:14	251	18:37
2024	Jan	27	(Sat)	06:20	06:42	109	12:29	59S	18:15	251	18:37
2024	Jan	28	(Sun)	06:20	06:42	109	12:29	60S	18:15	251	18:38
2024	Jan	29	(Mon)	06:20	06:42	108	12:29	60S	18:16	252	18:38
2024	Jan	30	(Tue)	06:20	06:42	108	12:29	60S	18:16	252	18:38
2024	Jan	31	(Wed)	06:20	06:42	108	12:29	61S	18:17	252	18:39
2024	Feb	01	(Thu)	06:20	06:42	108	12:29	61S	18:17	253	18:39
2024	Feb	02	(Fri)	06:20	06:42	107	12:30	61S	18:18	253	18:40
2024	Feb	03	(Sat)	06:20	06:42	107	12:30	61S	18:18	253	18:40
2024	Feb	04	(Sun)	06:19	06:41	107	12:30	62S	18:18	253	18:40
2024	Feb	05	(Mon)	06:19	06:41	106	12:30	62S	18:19	254	18:41
2024	Feb	06	(Tue)	06:19	06:41	106	12:30	62S	18:19	254	18:41
2024	Feb	07	(Wed)	06:19	06:41	106	12:30	63S	18:19	254	18:41
2024	Feb	08	(Thu)	06:19	06:41	105	12:30	63S	18:20	255	18:42
2024	Feb	09	(Fri)	06:18	06:40	105	12:30	63S	18:20	255	18:42
2024	Feb	10	(Sat)	06:18	06:40	105	12:30	64S	18:20	255	18:42
2024	Feb	11	(Sun)	06:18	06:40	104	12:30	64S	18:21	256	18:43
2024	Feb	12	(Mon)	06:18	06:39	104	12:30	64S	18:21	256	18:43
2024	Feb	13	(Tue)	06:17	06:39	104	12:30	65S	18:21	256	18:43
2024	Feb	14	(Wed)	06:17	06:39	103	12:30	65S	18:22	257	18:43
2024	Feb	15	(Thu)	06:17	06:38	103	12:30	65S	18:22	257	18:44
2024	Feb	16	(Fri)	06:16	06:38	103	12:30	66S	18:22	257	18:44
2024	Feb	17	(Sat)	06:16	06:38	102	12:30	66S	18:22	258	18:44
2024	Feb	18	(Sun)	06:16	06:37	102	12:30	66S	18:23	258	18:44
2024	Feb	19	(Mon)	06:15	06:37	102	12:30	67S	18:23	259	18:45
2024	Feb	20	(Tue)	06:15	06:37	101	12:30	67S	18:23	259	18:45
2024	Feb	21	(Wed)	06:15	06:36	101	12:30	67S	18:23	259	18:45
2024	Feb	22	(Thu)	06:14	06:36	101	12:30	68S	18:24	260	18:45
2024	Feb	23	(Fri)	06:14	06:35	100	12:29	68S	18:24	260	18:45
2024	Feb	24	(Sat)	06:13	06:35	100	12:29	68S	18:24	260	18:45
2024	Feb	25	(Sun)	06:13	06:34	99	12:29	69S	18:24	261	18:46
2024	Feb	26	(Mon)	06:12	06:34	99	12:29	69S	18:24	261	18:46
2024	Feb	27	(Tue)	06:12	06:33	99	12:29	69S	18:25	262	18:46
2024	Feb	28	(Wed)	06:11	06:33	98	12:29	70S	18:25	262	18:46
2024	Feb	29	(Thu)	06:11	06:32	98	12:28	70S	18:25	262	18:46
2024	Mar	01	(Fri)	06:10	06:32	97	12:28	71S	18:25	263	18:46
2024	Mar	02	(Sat)	06:10	06:31	97	12:28	71S	18:25	263	18:46
2024	Mar	03	(Sun)	06:09	06:31	97	12:28	71S	18:25	263	18:47
2024	Mar	04	(Mon)	06:09	06:30	96	12:28	72S	18:25	264	18:47
2024	Mar	05	(Tue)	06:08	06:29	96	12:27	72S	18:26	264	18:47
2024	Mar	06	(Wed)	06:08	06:29	96	12:27	73S	18:26	265	18:47
2024	Mar	07	(Thu)	06:07	06:28	95	12:27	73S	18:26	265	18:47
2024	Mar	08	(Fri)	06:06	06:28	95	12:27	73S	18:26	265	18:47
2024	Mar	09	(Sat)	06:06	06:27	94	12:26	74S	18:26	266	18:47
2024	Mar	10	(Sun)	06:05	06:26	94	12:26	74S	18:26	266	18:47
2024	Mar	11	(Mon)	06:05	06:26	94	12:26	75S	18:26	267	18:47
2024	Mar	12	(Tue)	06:04	06:25	93	12:26	75S	18:26	267	18:47
2024	Mar	13	(Wed)	06:03	06:25	93	12:25	75S	18:26	267	18:48
2024	Mar	14	(Thu)	06:03	06:24	92	12:25	76S	18:26	268	18:48
2024	Mar	15	(Fri)	06:02	06:23	92	12:25	76S	18:27	268	18:48
2024	Mar	16	(Sat)	06:02	06:23	91	12:25	76S	18:27	269	18:48
2024	Mar	17	(Sun)	06:01	06:22	91	12:24	77S	18:27	269	18:48
2024	Mar	18	(Mon)	06:00	06:21	91	12:24	77S	18:27	270	18:48

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

2024	May	25	(Sat)	05:27	05:49	68	12:13	82N	18:37	292	19:00
2024	May	26	(Sun)	05:26	05:49	68	12:13	82N	18:37	292	19:00
2024	May	27	(Mon)	05:26	05:49	68	12:13	82N	18:37	292	19:00
2024	May	28	(Tue)	05:26	05:49	68	12:13	82N	18:37	292	19:00
2024	May	29	(Wed)	05:26	05:49	68	12:13	82N	18:38	293	19:01
2024	May	30	(Thu)	05:26	05:49	67	12:14	82N	18:38	293	19:01
2024	May	31	(Fri)	05:26	05:49	67	12:14	81N	18:38	293	19:01
2024	Jun	01	(Sat)	05:26	05:49	67	12:14	81N	18:39	293	19:02
2024	Jun	02	(Sun)	05:26	05:49	67	12:14	81N	18:39	293	19:02
2024	Jun	03	(Mon)	05:26	05:49	67	12:14	81N	18:39	293	19:02
2024	Jun	04	(Tue)	05:26	05:49	67	12:14	81N	18:40	293	19:03
2024	Jun	05	(Wed)	05:26	05:49	67	12:15	81N	18:40	293	19:03
2024	Jun	06	(Thu)	05:26	05:49	67	12:15	81N	18:40	294	19:03
2024	Jun	07	(Fri)	05:26	05:50	66	12:15	81N	18:40	294	19:04
2024	Jun	08	(Sat)	05:26	05:50	66	12:15	81N	18:41	294	19:04
2024	Jun	09	(Sun)	05:26	05:50	66	12:15	80N	18:41	294	19:04
2024	Jun	10	(Mon)	05:26	05:50	66	12:16	80N	18:41	294	19:05
2024	Jun	11	(Tue)	05:27	05:50	66	12:16	80N	18:42	294	19:05
2024	Jun	12	(Wed)	05:27	05:50	66	12:16	80N	18:42	294	19:05
2024	Jun	13	(Thu)	05:27	05:50	66	12:16	80N	18:42	294	19:05
2024	Jun	14	(Fri)	05:27	05:50	66	12:16	80N	18:42	294	19:06
2024	Jun	15	(Sat)	05:27	05:51	66	12:17	80N	18:43	294	19:06
2024	Jun	16	(Sun)	05:27	05:51	66	12:17	80N	18:43	294	19:06
2024	Jun	17	(Mon)	05:28	05:51	66	12:17	80N	18:43	294	19:07
2024	Jun	18	(Tue)	05:28	05:51	66	12:17	80N	18:43	294	19:07
2024	Jun	19	(Wed)	05:28	05:51	66	12:17	80N	18:44	294	19:07
2024	Jun	20	(Thu)	05:28	05:51	66	12:18	80N	18:44	294	19:07
2024	Jun	21	(Fri)	05:28	05:52	66	12:18	80N	18:44	294	19:07
2024	Jun	22	(Sat)	05:29	05:52	66	12:18	80N	18:44	294	19:08
2024	Jun	23	(Sun)	05:29	05:52	66	12:18	80N	18:44	294	19:08
2024	Jun	24	(Mon)	05:29	05:52	66	12:19	80N	18:45	294	19:08
2024	Jun	25	(Tue)	05:29	05:53	66	12:19	80N	18:45	294	19:08
2024	Jun	26	(Wed)	05:29	05:53	66	12:19	80N	18:45	294	19:08
2024	Jun	27	(Thu)	05:30	05:53	66	12:19	80N	18:45	294	19:08
2024	Jun	28	(Fri)	05:30	05:53	66	12:19	80N	18:45	294	19:09
2024	Jun	29	(Sat)	05:30	05:54	66	12:20	80N	18:45	294	19:09
2024	Jun	30	(Sun)	05:31	05:54	66	12:20	80N	18:46	294	19:09
2024	Jul	01	(Mon)	05:31	05:54	66	12:20	80N	18:46	294	19:09
2024	Jul	02	(Tue)	05:31	05:54	66	12:20	80N	18:46	294	19:09
2024	Jul	03	(Wed)	05:31	05:55	66	12:20	80N	18:46	294	19:09
2024	Jul	04	(Thu)	05:32	05:55	66	12:20	81N	18:46	294	19:09
2024	Jul	05	(Fri)	05:32	05:55	66	12:21	81N	18:46	294	19:09
2024	Jul	06	(Sat)	05:32	05:56	67	12:21	81N	18:46	293	19:09
2024	Jul	07	(Sun)	05:33	05:56	67	12:21	81N	18:46	293	19:09
2024	Jul	08	(Mon)	05:33	05:56	67	12:21	81N	18:46	293	19:09
2024	Jul	09	(Tue)	05:33	05:56	67	12:21	81N	18:46	293	19:09
2024	Jul	10	(Wed)	05:34	05:57	67	12:21	81N	18:46	293	19:09
2024	Jul	11	(Thu)	05:34	05:57	67	12:22	81N	18:46	293	19:09
2024	Jul	12	(Fri)	05:34	05:57	67	12:22	81N	18:46	293	19:09
2024	Jul	13	(Sat)	05:34	05:57	67	12:22	82N	18:46	292	19:09
2024	Jul	14	(Sun)	05:35	05:58	68	12:22	82N	18:46	292	19:09
2024	Jul	15	(Mon)	05:35	05:58	68	12:22	82N	18:46	292	19:09
2024	Jul	16	(Tue)	05:35	05:58	68	12:22	82N	18:46	292	19:09
2024	Jul	17	(Wed)	05:36	05:59	68	12:22	82N	18:46	292	19:09
2024	Jul	18	(Thu)	05:36	05:59	68	12:22	82N	18:46	292	19:09
2024	Jul	19	(Fri)	05:36	05:59	68	12:22	83N	18:46	291	19:08
2024	Jul	20	(Sat)	05:36	05:59	69	12:22	83N	18:45	291	19:08
2024	Jul	21	(Sun)	05:37	06:00	69	12:22	83N	18:45	291	19:08
2024	Jul	22	(Mon)	05:37	06:00	69	12:23	83N	18:45	291	19:08
2024	Jul	23	(Tue)	05:37	06:00	69	12:23	83N	18:45	291	19:08
2024	Jul	24	(Wed)	05:38	06:00	69	12:23	84N	18:45	290	19:07
2024	Jul	25	(Thu)	05:38	06:01	70	12:23	84N	18:44	290	19:07
2024	Jul	26	(Fri)	05:38	06:01	70	12:23	84N	18:44	290	19:07
2024	Jul	27	(Sat)	05:38	06:01	70	12:23	84N	18:44	290	19:07
2024	Jul	28	(Sun)	05:39	06:01	70	12:23	85N	18:44	289	19:06
2024	Jul	29	(Mon)	05:39	06:01	71	12:22	85N	18:43	289	19:06
2024	Jul	30	(Tue)	05:39	06:02	71	12:22	85N	18:43	289	19:06

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

2024	Oct	06	(Sun)	05:44	06:05	95	12:04	73S	18:03	265	18:24
2024	Oct	07	(Mon)	05:44	06:05	96	12:04	72S	18:02	264	18:23
2024	Oct	08	(Tue)	05:44	06:06	96	12:03	72S	18:01	264	18:23
2024	Oct	09	(Wed)	05:44	06:06	96	12:03	72S	18:01	263	18:22
2024	Oct	10	(Thu)	05:44	06:06	97	12:03	71S	18:00	263	18:21
2024	Oct	11	(Fri)	05:44	06:06	97	12:03	71S	17:59	263	18:21
2024	Oct	12	(Sat)	05:44	06:06	97	12:02	70S	17:59	262	18:20
2024	Oct	13	(Sun)	05:45	06:06	98	12:02	70S	17:58	262	18:20
2024	Oct	14	(Mon)	05:45	06:06	98	12:02	70S	17:58	262	18:19
2024	Oct	15	(Tue)	05:45	06:06	99	12:02	69S	17:57	261	18:19
2024	Oct	16	(Wed)	05:45	06:06	99	12:02	69S	17:57	261	18:18
2024	Oct	17	(Thu)	05:45	06:06	99	12:01	69S	17:56	260	18:18
2024	Oct	18	(Fri)	05:45	06:07	100	12:01	68S	17:56	260	18:17
2024	Oct	19	(Sat)	05:45	06:07	100	12:01	68S	17:55	260	18:17
2024	Oct	20	(Sun)	05:45	06:07	100	12:01	68S	17:55	259	18:16
2024	Oct	21	(Mon)	05:45	06:07	101	12:01	67S	17:54	259	18:16
2024	Oct	22	(Tue)	05:46	06:07	101	12:00	67S	17:54	259	18:15
2024	Oct	23	(Wed)	05:46	06:07	102	12:00	66S	17:53	258	18:15
2024	Oct	24	(Thu)	05:46	06:08	102	12:00	66S	17:53	258	18:14
2024	Oct	25	(Fri)	05:46	06:08	102	12:00	66S	17:52	258	18:14
2024	Oct	26	(Sat)	05:46	06:08	103	12:00	65S	17:52	257	18:13
2024	Oct	27	(Sun)	05:46	06:08	103	12:00	65S	17:51	257	18:13
2024	Oct	28	(Mon)	05:47	06:08	103	12:00	65S	17:51	256	18:13
2024	Oct	29	(Tue)	05:47	06:09	104	12:00	64S	17:51	256	18:12
2024	Oct	30	(Wed)	05:47	06:09	104	12:00	64S	17:50	256	18:12
2024	Oct	31	(Thu)	05:47	06:09	104	12:00	64S	17:50	255	18:12
2024	Nov	01	(Fri)	05:48	06:09	105	12:00	63S	17:50	255	18:11
2024	Nov	02	(Sat)	05:48	06:10	105	12:00	63S	17:49	255	18:11
2024	Nov	03	(Sun)	05:48	06:10	105	12:00	63S	17:49	255	18:11
2024	Nov	04	(Mon)	05:48	06:10	106	12:00	63S	17:49	254	18:11
2024	Nov	05	(Tue)	05:49	06:11	106	12:00	62S	17:48	254	18:10
2024	Nov	06	(Wed)	05:49	06:11	106	12:00	62S	17:48	254	18:10
2024	Nov	07	(Thu)	05:49	06:11	107	12:00	62S	17:48	253	18:10
2024	Nov	08	(Fri)	05:50	06:12	107	12:00	61S	17:48	253	18:10
2024	Nov	09	(Sat)	05:50	06:12	107	12:00	61S	17:48	253	18:10
2024	Nov	10	(Sun)	05:50	06:12	107	12:00	61S	17:47	252	18:10
2024	Nov	11	(Mon)	05:51	06:13	108	12:00	60S	17:47	252	18:09
2024	Nov	12	(Tue)	05:51	06:13	108	12:00	60S	17:47	252	18:09
2024	Nov	13	(Wed)	05:51	06:13	108	12:00	60S	17:47	252	18:09
2024	Nov	14	(Thu)	05:52	06:14	109	12:00	60S	17:47	251	18:09
2024	Nov	15	(Fri)	05:52	06:14	109	12:01	59S	17:47	251	18:09
2024	Nov	16	(Sat)	05:52	06:15	109	12:01	59S	17:47	251	18:09
2024	Nov	17	(Sun)	05:53	06:15	109	12:01	59S	17:47	251	18:09
2024	Nov	18	(Mon)	05:53	06:16	110	12:01	59S	17:47	250	18:09
2024	Nov	19	(Tue)	05:54	06:16	110	12:01	58S	17:47	250	18:09
2024	Nov	20	(Wed)	05:54	06:16	110	12:02	58S	17:47	250	18:09
2024	Nov	21	(Thu)	05:54	06:17	110	12:02	58S	17:47	250	18:09
2024	Nov	22	(Fri)	05:55	06:17	111	12:02	58S	17:47	249	18:09
2024	Nov	23	(Sat)	05:55	06:18	111	12:02	58S	17:47	249	18:09
2024	Nov	24	(Sun)	05:56	06:18	111	12:03	57S	17:47	249	18:10
2024	Nov	25	(Mon)	05:56	06:19	111	12:03	57S	17:47	249	18:10
2024	Nov	26	(Tue)	05:57	06:19	111	12:03	57S	17:47	249	18:10
2024	Nov	27	(Wed)	05:57	06:20	112	12:04	57S	17:47	248	18:10
2024	Nov	28	(Thu)	05:58	06:20	112	12:04	57S	17:48	248	18:10
2024	Nov	29	(Fri)	05:58	06:21	112	12:04	56S	17:48	248	18:10
2024	Nov	30	(Sat)	05:59	06:21	112	12:05	56S	17:48	248	18:11
2024	Dec	01	(Sun)	05:59	06:22	112	12:05	56S	17:48	248	18:11
2024	Dec	02	(Mon)	06:00	06:23	112	12:05	56S	17:48	248	18:11
2024	Dec	03	(Tue)	06:00	06:23	113	12:06	56S	17:49	247	18:11
2024	Dec	04	(Wed)	06:01	06:24	113	12:06	56S	17:49	247	18:12
2024	Dec	05	(Thu)	06:01	06:24	113	12:07	56S	17:49	247	18:12
2024	Dec	06	(Fri)	06:02	06:25	113	12:07	55S	17:49	247	18:12
2024	Dec	07	(Sat)	06:02	06:25	113	12:08	55S	17:50	247	18:13
2024	Dec	08	(Sun)	06:03	06:26	113	12:08	55S	17:50	247	18:13
2024	Dec	09	(Mon)	06:03	06:26	113	12:08	55S	17:50	247	18:13
2024	Dec	10	(Tue)	06:04	06:27	113	12:09	55S	17:51	247	18:14
2024	Dec	11	(Wed)	06:04	06:27	113	12:09	55S	17:51	247	18:14

2024	Dec	12	(Thu)	06:05	06:28	114	12:10	55S	17:52	246	18:15
2024	Dec	13	(Fri)	06:06	06:29	114	12:10	55S	17:52	246	18:15
2024	Dec	14	(Sat)	06:06	06:29	114	12:11	55S	17:52	246	18:15
2024	Dec	15	(Sun)	06:07	06:30	114	12:11	55S	17:53	246	18:16
2024	Dec	16	(Mon)	06:07	06:30	114	12:12	55S	17:53	246	18:16
2024	Dec	17	(Tue)	06:08	06:31	114	12:12	55S	17:54	246	18:17
2024	Dec	18	(Wed)	06:08	06:31	114	12:13	55S	17:54	246	18:17
2024	Dec	19	(Thu)	06:09	06:32	114	12:13	55S	17:55	246	18:18
2024	Dec	20	(Fri)	06:09	06:32	114	12:14	55S	17:55	246	18:18
2024	Dec	21	(Sat)	06:10	06:33	114	12:14	55S	17:56	246	18:19
2024	Dec	22	(Sun)	06:10	06:33	114	12:15	55S	17:56	246	18:19
2024	Dec	23	(Mon)	06:11	06:34	114	12:15	55S	17:57	246	18:20
2024	Dec	24	(Tue)	06:11	06:34	114	12:16	55S	17:57	246	18:20
2024	Dec	25	(Wed)	06:12	06:35	114	12:16	55S	17:58	246	18:21
2024	Dec	26	(Thu)	06:12	06:35	114	12:17	55S	17:58	246	18:21
2024	Dec	27	(Fri)	06:13	06:36	114	12:17	55S	17:59	246	18:22
2024	Dec	28	(Sat)	06:13	06:36	114	12:18	55S	17:59	246	18:22
2024	Dec	29	(Sun)	06:13	06:36	114	12:18	55S	18:00	246	18:23
2024	Dec	30	(Mon)	06:14	06:37	114	12:19	55S	18:00	246	18:23
2024	Dec	31	(Tue)	06:14	06:37	113	12:19	55S	18:01	247	18:24

Moon

VTMU

Location: E101°00'00.0", N12°41'00.0", 59m
(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	81		04:07	90N		10:28	282	
2024	Jan	02 (Tue)	23:14	86		04:47	86S		11:03	277	
2024	Jan	03 (Wed)	23:58	92		05:27	80S		11:37	271	
2024	Jan	04 (Thu)				06:06	74S		12:11	265	
2024	Jan	05 (Fri)	00:44	98		06:46	68S		12:46	259	
2024	Jan	06 (Sat)	01:31	104		07:29	63S		13:24	254	
2024	Jan	07 (Sun)	02:22	109		08:16	58S		14:07	249	
2024	Jan	08 (Mon)	03:17	114		09:07	53S		14:56	244	
2024	Jan	09 (Tue)	04:17	117		10:04	50S		15:51	242	
2024	Jan	10 (Wed)	05:20	119		11:06	49S		16:52	241	
2024	Jan	11 (Thu)	06:23	119		12:10	50S		17:58	242	
2024	Jan	12 (Fri)	07:24	116		13:13	53S		19:04	246	
2024	Jan	13 (Sat)	08:19	112		14:12	58S		20:08	251	
2024	Jan	14 (Sun)	09:10	106		15:07	64S		21:08	257	
2024	Jan	15 (Mon)	09:55	99		15:59	71S		22:06	264	
2024	Jan	16 (Tue)	10:38	92		16:48	78S		23:01	272	
2024	Jan	17 (Wed)	11:20	85		17:36	85S		23:55	279	
2024	Jan	18 (Thu)	12:01	78		18:24	90N				
2024	Jan	19 (Fri)	12:44	72		19:13	85N		00:49	285	
2024	Jan	20 (Sat)	13:30	67		20:05	80N		01:45	290	
2024	Jan	21 (Sun)	14:20	64		20:58	77N		02:41	295	
2024	Jan	22 (Mon)	15:12	62		21:54	75N		03:39	298	
2024	Jan	23 (Tue)	16:07	61		22:49	75N		04:36	299	
2024	Jan	24 (Wed)	17:02	62		23:42	77N		05:30	298	
2024	Jan	25 (Thu)	17:56	65					06:21	297	
2024	Jan	26 (Fri)	18:48	69		00:33	80N		07:07	293	
2024	Jan	27 (Sat)	19:38	73		01:20	84N		07:48	289	
2024	Jan	28 (Sun)	20:24	79		02:03	88N		08:26	284	
2024	Jan	29 (Mon)	21:09	84		02:44	88S		09:02	279	
2024	Jan	30 (Tue)	21:53	90		03:24	82S		09:36	273	
2024	Jan	31 (Wed)	22:38	96		04:03	76S		10:09	267	
2024	Feb	01 (Thu)	23:24	102		04:42	70S		10:43	261	
2024	Feb	02 (Fri)				05:23	65S		11:20	255	
2024	Feb	03 (Sat)	00:12	107		06:07	60S		11:59	250	
2024	Feb	04 (Sun)	01:04	112		06:55	55S		12:44	246	

2024 Feb 05 (Mon)	02:00	116	07:48	52S	13:35	243
2024 Feb 06 (Tue)	03:00	118	08:46	49S	14:32	241
2024 Feb 07 (Wed)	04:02	119	09:48	49S	15:35	241
2024 Feb 08 (Thu)	05:04	118	10:51	51S	16:40	244
2024 Feb 09 (Fri)	06:02	114	11:53	55S	17:46	248
2024 Feb 10 (Sat)	06:56	109	12:52	61S	18:50	254
2024 Feb 11 (Sun)	07:45	102	13:46	67S	19:51	261
2024 Feb 12 (Mon)	08:31	95	14:38	75S	20:49	269
2024 Feb 13 (Tue)	09:14	88	15:28	82S	21:46	276
2024 Feb 14 (Wed)	09:57	80	16:18	89S	22:42	283
2024 Feb 15 (Thu)	10:41	74	17:08	86N	23:38	289
2024 Feb 16 (Fri)	11:27	69	18:00	81N		
2024 Feb 17 (Sat)	12:16	64	18:54	77N	00:36	294
2024 Feb 18 (Sun)	13:08	62	19:49	75N	01:34	297
2024 Feb 19 (Mon)	14:02	61	20:44	75N	02:31	299
2024 Feb 20 (Tue)	14:57	62	21:38	76N	03:26	299
2024 Feb 21 (Wed)	15:51	64	22:29	78N	04:18	297
2024 Feb 22 (Thu)	16:44	67	23:17	82N	05:05	295
2024 Feb 23 (Fri)	17:34	72			05:47	291
2024 Feb 24 (Sat)	18:21	77	00:01	87N	06:26	286
2024 Feb 25 (Sun)	19:06	82	00:43	90S	07:02	280
2024 Feb 26 (Mon)	19:51	88	01:23	84S	07:36	275
2024 Feb 27 (Tue)	20:35	94	02:02	78S	08:10	269
2024 Feb 28 (Wed)	21:20	100	02:41	72S	08:44	263
2024 Feb 29 (Thu)	22:07	106	03:21	66S	09:19	257
2024 Mar 01 (Fri)	22:57	111	04:03	61S	09:57	252
2024 Mar 02 (Sat)	23:50	115	04:49	56S	10:39	247
2024 Mar 03 (Sun)			05:39	53S	11:25	244
2024 Mar 04 (Mon)	00:47	118	06:33	50S	12:18	241
2024 Mar 05 (Tue)	01:46	119	07:31	49S	13:17	241
2024 Mar 06 (Wed)	02:46	119	08:32	50S	14:19	242
2024 Mar 07 (Thu)	03:45	116	09:33	53S	15:24	245
2024 Mar 08 (Fri)	04:40	112	10:32	57S	16:27	251
2024 Mar 09 (Sat)	05:30	106	11:28	63S	17:30	257
2024 Mar 10 (Sun)	06:18	99	12:22	71S	18:30	265
2024 Mar 11 (Mon)	07:03	91	13:14	78S	19:28	272
2024 Mar 12 (Tue)	07:47	84	14:05	86S	20:26	280
2024 Mar 13 (Wed)	08:32	77	14:57	89N	21:25	287
2024 Mar 14 (Thu)	09:19	71	15:50	83N	22:25	292
2024 Mar 15 (Fri)	10:09	66	16:46	78N	23:25	296
2024 Mar 16 (Sat)	11:01	62	17:42	76N		
2024 Mar 17 (Sun)	11:56	61	18:39	75N	00:24	299
2024 Mar 18 (Mon)	12:52	61	19:34	75N	01:21	299
2024 Mar 19 (Tue)	13:47	63	20:26	77N	02:14	298
2024 Mar 20 (Wed)	14:40	66	21:15	81N	03:03	296
2024 Mar 21 (Thu)	15:30	70	22:00	85N	03:47	292
2024 Mar 22 (Fri)	16:18	75	22:42	90N	04:26	287
2024 Mar 23 (Sat)	17:04	80	23:22	86S	05:03	282
2024 Mar 24 (Sun)	17:49	86			05:38	277
2024 Mar 25 (Mon)	18:33	92	00:01	80S	06:11	271
2024 Mar 26 (Tue)	19:18	98	00:40	74S	06:45	265
2024 Mar 27 (Wed)	20:04	104	01:20	68S	07:20	259
2024 Mar 28 (Thu)	20:53	109	02:02	63S	07:57	253
2024 Mar 29 (Fri)	21:45	114	02:46	58S	08:37	249
2024 Mar 30 (Sat)	22:40	117	03:34	54S	09:22	245
2024 Mar 31 (Sun)	23:38	119	04:27	51S	10:12	242
2024 Apr 01 (Mon)			05:23	49S	11:07	241
2024 Apr 02 (Tue)	00:36	119	06:21	49S	12:07	241
2024 Apr 03 (Wed)	01:34	118	07:20	51S	13:08	244
2024 Apr 04 (Thu)	02:28	114	08:18	55S	14:10	248
2024 Apr 05 (Fri)	03:19	109	09:13	60S	15:11	254
2024 Apr 06 (Sat)	04:06	103	10:07	67S	16:10	261
2024 Apr 07 (Sun)	04:51	96	10:58	74S	17:09	268
2024 Apr 08 (Mon)	05:35	88	11:49	82S	18:07	276
2024 Apr 09 (Tue)	06:20	80	12:41	89S	19:06	283
2024 Apr 10 (Wed)	07:06	74	13:34	86N	20:06	290
2024 Apr 11 (Thu)	07:56	68	14:30	80N	21:08	295

2024 Apr 12 (Fri)	08:49 64	15:28 77N	22:10 298
2024 Apr 13 (Sat)	09:44 61	16:27 75N	23:10 299
2024 Apr 14 (Sun)	10:42 61	17:25 75N	
2024 Apr 15 (Mon)	11:39 62	18:19 76N	00:07 299
2024 Apr 16 (Tue)	12:34 65	19:10 79N	00:58 297
2024 Apr 17 (Wed)	13:26 68	19:57 83N	01:44 293
2024 Apr 18 (Thu)	14:14 73	20:40 88N	02:26 289
2024 Apr 19 (Fri)	15:01 79	21:21 88S	03:03 284
2024 Apr 20 (Sat)	15:46 84	22:00 82S	03:38 279
2024 Apr 21 (Sun)	16:30 90	22:39 76S	04:12 273
2024 Apr 22 (Mon)	17:15 96	23:19 70S	04:46 267
2024 Apr 23 (Tue)	18:01 102	24:00 65S	05:20 261
2024 Apr 24 (Wed)	18:49 108		05:57 255
2024 Apr 25 (Thu)	19:41 112	00:44 59S	06:36 250
2024 Apr 26 (Fri)	20:36 116	01:31 55S	07:20 246
2024 Apr 27 (Sat)	21:33 119	02:23 51S	08:09 243
2024 Apr 28 (Sun)	22:31 119	03:18 49S	09:03 241
2024 Apr 29 (Mon)	23:28 118	04:16 49S	10:01 241
2024 Apr 30 (Tue)		05:14 50S	11:01 243
2024 May 01 (Wed)	00:22 116	06:11 53S	12:01 246
2024 May 02 (Thu)	01:13 111	07:06 58S	13:01 252
2024 May 03 (Fri)	02:00 105	07:58 64S	13:58 258
2024 May 04 (Sat)	02:44 99	08:48 71S	14:55 265
2024 May 05 (Sun)	03:27 91	09:37 78S	15:51 272
2024 May 06 (Mon)	04:10 84	10:27 86S	16:48 280
2024 May 07 (Tue)	04:54 77	11:19 89N	17:47 286
2024 May 08 (Wed)	05:42 71	12:13 83N	18:48 292
2024 May 09 (Thu)	06:33 66	13:11 78N	19:51 296
2024 May 10 (Fri)	07:29 62	14:10 76N	20:53 299
2024 May 11 (Sat)	08:27 61	15:10 75N	21:53 299
2024 May 12 (Sun)	09:26 61	16:08 76N	22:48 298
2024 May 13 (Mon)	10:23 63	17:02 78N	23:38 295
2024 May 14 (Tue)	11:17 67	17:51 82N	
2024 May 15 (Wed)	12:08 71	18:36 86N	00:22 291
2024 May 16 (Thu)	12:56 77	19:18 90S	01:01 286
2024 May 17 (Fri)	13:41 82	19:58 84S	01:38 281
2024 May 18 (Sat)	14:26 88	20:37 78S	02:12 275
2024 May 19 (Sun)	15:10 94	21:16 72S	02:45 269
2024 May 20 (Mon)	15:56 100	21:56 67S	03:19 263
2024 May 21 (Tue)	16:43 106	22:39 61S	03:55 257
2024 May 22 (Wed)	17:34 111	23:26 56S	04:33 252
2024 May 23 (Thu)	18:28 115		05:16 247
2024 May 24 (Fri)	19:26 118	00:17 53S	06:04 244
2024 May 25 (Sat)	20:25 119	01:12 50S	06:57 241
2024 May 26 (Sun)	21:23 119	02:10 49S	07:55 241
2024 May 27 (Mon)	22:19 116	03:09 50S	08:55 242
2024 May 28 (Tue)	23:10 112	04:07 53S	09:56 245
2024 May 29 (Wed)	23:58 107	05:02 57S	10:56 250
2024 May 30 (Thu)		05:54 62S	11:53 256
2024 May 31 (Fri)	00:42 101	06:44 69S	12:48 263
2024 Jun 01 (Sat)	01:24 94	07:32 76S	13:43 270
2024 Jun 02 (Sun)	02:05 87	08:20 83S	14:38 277
2024 Jun 03 (Mon)	02:48 80	09:09 90S	15:34 284
2024 Jun 04 (Tue)	03:33 73	10:01 85N	16:33 290
2024 Jun 05 (Wed)	04:21 68	10:56 80N	17:34 295
2024 Jun 06 (Thu)	05:14 64	11:54 77N	18:36 298
2024 Jun 07 (Fri)	06:11 61	12:54 75N	19:38 299
2024 Jun 08 (Sat)	07:10 61	13:53 75N	20:35 298
2024 Jun 09 (Sun)	08:09 62	14:50 77N	21:28 296
2024 Jun 10 (Mon)	09:06 65	15:42 80N	22:15 293
2024 Jun 11 (Tue)	09:59 70	16:29 85N	22:57 288
2024 Jun 12 (Wed)	10:49 75	17:13 90N	23:35 283
2024 Jun 13 (Thu)	11:35 80	17:54 86S	
2024 Jun 14 (Fri)	12:20 86	18:33 80S	00:10 277
2024 Jun 15 (Sat)	13:04 92	19:12 75S	00:44 271
2024 Jun 16 (Sun)	13:49 98	19:52 69S	01:17 265
2024 Jun 17 (Mon)	14:36 103	20:33 63S	01:52 259

2024 Jun 18 (Tue)	15:25 109	21:18 58S	02:29 254
2024 Jun 19 (Wed)	16:18 113	22:07 54S	03:10 249
2024 Jun 20 (Thu)	17:14 117	23:01 51S	03:56 245
2024 Jun 21 (Fri)	18:13 119	23:59 49S	04:47 242
2024 Jun 22 (Sat)	19:13 119		05:44 241
2024 Jun 23 (Sun)	20:11 117	00:59 49S	06:45 242
2024 Jun 24 (Mon)	21:06 114	01:59 52S	07:47 244
2024 Jun 25 (Tue)	21:55 109	02:56 55S	08:49 248
2024 Jun 26 (Wed)	22:41 103	03:50 61S	09:48 254
2024 Jun 27 (Thu)	23:24 96	04:41 67S	10:45 261
2024 Jun 28 (Fri)		05:30 74S	11:39 268
2024 Jun 29 (Sat)	00:05 89	06:17 81S	12:33 275
2024 Jun 30 (Sun)	00:46 82	07:06 88S	13:28 282
2024 Jul 01 (Mon)	01:29 75	07:55 87N	14:25 288
2024 Jul 02 (Tue)	02:16 69	08:48 82N	15:23 293
2024 Jul 03 (Wed)	03:06 65	09:44 78N	16:24 297
2024 Jul 04 (Thu)	04:00 62	10:42 75N	17:25 299
2024 Jul 05 (Fri)	04:58 61	11:41 75N	18:24 299
2024 Jul 06 (Sat)	05:57 62	12:38 76N	19:18 297
2024 Jul 07 (Sun)	06:54 64	13:32 79N	20:08 294
2024 Jul 08 (Mon)	07:49 68	14:22 83N	20:52 290
2024 Jul 09 (Tue)	08:40 73	15:07 88N	21:31 285
2024 Jul 10 (Wed)	09:28 78	15:49 88S	22:07 279
2024 Jul 11 (Thu)	10:14 84	16:29 83S	22:42 273
2024 Jul 12 (Fri)	10:59 90	17:08 77S	23:15 267
2024 Jul 13 (Sat)	11:43 96	17:47 71S	23:49 262
2024 Jul 14 (Sun)	12:28 101	18:28 65S	
2024 Jul 15 (Mon)	13:15 107	19:10 60S	00:25 256
2024 Jul 16 (Tue)	14:06 112	19:57 55S	01:03 251
2024 Jul 17 (Wed)	15:00 116	20:48 52S	01:46 246
2024 Jul 18 (Thu)	15:58 118	21:44 50S	02:35 243
2024 Jul 19 (Fri)	16:58 119	22:44 49S	03:29 241
2024 Jul 20 (Sat)	17:58 118	23:45 50S	04:29 241
2024 Jul 21 (Sun)	18:55 115		05:32 243
2024 Jul 22 (Mon)	19:48 111	00:44 54S	06:36 247
2024 Jul 23 (Tue)	20:36 105	01:41 59S	07:37 252
2024 Jul 24 (Wed)	21:21 98	02:35 65S	08:37 258
2024 Jul 25 (Thu)	22:04 91	03:26 72S	09:33 266
2024 Jul 26 (Fri)	22:46 84	04:14 79S	10:29 273
2024 Jul 27 (Sat)	23:28 77	05:03 86S	11:24 280
2024 Jul 28 (Sun)		05:53 89N	12:20 286
2024 Jul 29 (Mon)	00:14 71	06:44 83N	13:18 292
2024 Jul 30 (Tue)	01:02 66	07:39 79N	14:17 296
2024 Jul 31 (Wed)	01:55 63	08:35 76N	15:18 299
2024 Aug 01 (Thu)	02:50 61	09:33 75N	16:16 299
2024 Aug 02 (Fri)	03:48 61	10:30 75N	17:12 298
2024 Aug 03 (Sat)	04:46 63	11:25 78N	18:02 295
2024 Aug 04 (Sun)	05:41 66	12:16 81N	18:48 291
2024 Aug 05 (Mon)	06:33 71	13:02 86N	19:28 287
2024 Aug 06 (Tue)	07:22 76	13:46 90S	20:06 281
2024 Aug 07 (Wed)	08:09 82	14:26 85S	20:41 275
2024 Aug 08 (Thu)	08:54 88	15:05 79S	21:14 269
2024 Aug 09 (Fri)	09:38 93	15:44 73S	21:48 264
2024 Aug 10 (Sat)	10:22 99	16:23 67S	22:22 258
2024 Aug 11 (Sun)	11:08 105	17:05 62S	22:59 253
2024 Aug 12 (Mon)	11:57 110	17:49 57S	23:39 248
2024 Aug 13 (Tue)	12:49 114	18:37 53S	
2024 Aug 14 (Wed)	13:44 117	19:30 50S	00:25 244
2024 Aug 15 (Thu)	14:42 119	20:27 49S	01:15 242
2024 Aug 16 (Fri)	15:41 119	21:27 49S	02:12 241
2024 Aug 17 (Sat)	16:40 117	22:27 52S	03:13 242
2024 Aug 18 (Sun)	17:35 113	23:26 56S	04:16 244
2024 Aug 19 (Mon)	18:26 108		05:20 249
2024 Aug 20 (Tue)	19:13 101	00:22 62S	06:21 255
2024 Aug 21 (Wed)	19:58 94	01:15 69S	07:20 262
2024 Aug 22 (Thu)	20:41 86	02:06 76S	08:18 270
2024 Aug 23 (Fri)	21:25 79	02:56 83S	09:15 278

2024 Aug 24 (Sat)	22:10	72	03:47	91S	10:13	285
2024 Aug 25 (Sun)	22:59	67	04:39	85N	11:12	291
2024 Aug 26 (Mon)	23:51	63	05:34	80N	12:12	295
2024 Aug 27 (Tue)			06:31	76N	13:12	298
2024 Aug 28 (Wed)	00:46	61	07:28	75N	14:12	299
2024 Aug 29 (Thu)	01:43	61	08:26	75N	15:08	299
2024 Aug 30 (Fri)	02:40	62	09:21	77N	15:59	297
2024 Aug 31 (Sat)	03:36	65	10:12	80N	16:46	293
2024 Sep 01 (Sun)	04:29	69	10:59	84N	17:27	288
2024 Sep 02 (Mon)	05:18	74	11:43	89N	18:06	283
2024 Sep 03 (Tue)	06:05	80	12:25	87S	18:41	277
2024 Sep 04 (Wed)	06:50	85	13:04	81S	19:15	272
2024 Sep 05 (Thu)	07:35	91	13:43	75S	19:48	266
2024 Sep 06 (Fri)	08:19	97	14:22	69S	20:22	260
2024 Sep 07 (Sat)	09:04	103	15:02	64S	20:58	254
2024 Sep 08 (Sun)	09:51	108	15:45	59S	21:36	249
2024 Sep 09 (Mon)	10:41	113	16:31	54S	22:19	245
2024 Sep 10 (Tue)	11:34	116	17:21	51S	23:06	242
2024 Sep 11 (Wed)	12:30	119	18:15	49S	23:59	241
2024 Sep 12 (Thu)	13:27	119	19:12	49S		
2024 Sep 13 (Fri)	14:25	118	20:10	50S	00:57	241
2024 Sep 14 (Sat)	15:20	116	21:09	54S	01:57	243
2024 Sep 15 (Sun)	16:12	111	22:05	59S	03:00	246
2024 Sep 16 (Mon)	17:00	105	22:59	65S	04:01	252
2024 Sep 17 (Tue)	17:46	98	23:52	72S	05:01	259
2024 Sep 18 (Wed)	18:31	90			06:00	266
2024 Sep 19 (Thu)	19:15	82	00:43	80S	06:59	274
2024 Sep 20 (Fri)	20:02	75	01:35	87S	07:58	281
2024 Sep 21 (Sat)	20:50	69	02:28	87N	08:58	288
2024 Sep 22 (Sun)	21:43	64	03:24	81N	10:00	294
2024 Sep 23 (Mon)	22:39	62	04:22	77N	11:03	297
2024 Sep 24 (Tue)	23:37	61	05:21	75N	12:05	299
2024 Sep 25 (Wed)			06:20	74N	13:03	299
2024 Sep 26 (Thu)	00:35	61	07:17	76N	13:57	297
2024 Sep 27 (Fri)	01:31	64	08:09	79N	14:45	294
2024 Sep 28 (Sat)	02:25	68	08:58	83N	15:28	290
2024 Sep 29 (Sun)	03:15	72	09:42	87N	16:06	285
2024 Sep 30 (Mon)	04:03	78	10:24	89S	16:42	279
2024 Oct 01 (Tue)	04:48	84	11:04	83S	17:16	273
2024 Oct 02 (Wed)	05:33	89	11:42	77S	17:50	268
2024 Oct 03 (Thu)	06:17	95	12:21	71S	18:23	262
2024 Oct 04 (Fri)	07:02	101	13:01	65S	18:58	256
2024 Oct 05 (Sat)	07:48	107	13:43	60S	19:36	251
2024 Oct 06 (Sun)	08:37	111	14:28	56S	20:17	247
2024 Oct 07 (Mon)	09:29	115	15:16	52S	21:02	243
2024 Oct 08 (Tue)	10:23	118	16:08	50S	21:52	241
2024 Oct 09 (Wed)	11:19	119	17:03	49S	22:47	241
2024 Oct 10 (Thu)	12:15	119	17:59	49S	23:45	242
2024 Oct 11 (Fri)	13:09	117	18:56	52S		
2024 Oct 12 (Sat)	14:00	113	19:51	56S	00:45	245
2024 Oct 13 (Sun)	14:49	108	20:45	62S	01:44	249
2024 Oct 14 (Mon)	15:35	101	21:36	68S	02:43	255
2024 Oct 15 (Tue)	16:19	94	22:27	76S	03:41	262
2024 Oct 16 (Wed)	17:03	86	23:18	83S	04:39	270
2024 Oct 17 (Thu)	17:48	79			05:37	277
2024 Oct 18 (Fri)	18:37	72	00:11	91S	06:38	285
2024 Oct 19 (Sat)	19:29	66	01:07	84N	07:41	291
2024 Oct 20 (Sun)	20:25	63	02:06	79N	08:45	296
2024 Oct 21 (Mon)	21:25	61	03:07	76N	09:50	299
2024 Oct 22 (Tue)	22:25	61	04:08	74N	10:52	299
2024 Oct 23 (Wed)	23:24	63	05:08	75N	11:50	298
2024 Oct 24 (Thu)			06:03	78N	12:41	295
2024 Oct 25 (Fri)	00:20	66	06:54	81N	13:26	291
2024 Oct 26 (Sat)	01:12	71	07:40	86N	14:06	287
2024 Oct 27 (Sun)	02:00	76	08:23	90S	14:43	281
2024 Oct 28 (Mon)	02:46	82	09:03	85S	15:18	275
2024 Oct 29 (Tue)	03:31	88	09:42	79S	15:51	269

2024	Oct	30	(Wed)	04:15	94	10:21	73S	16:24	264
2024	Oct	31	(Thu)	04:59	99	11:00	67S	16:59	258
2024	Nov	01	(Fri)	05:45	105	11:42	62S	17:36	253
2024	Nov	02	(Sat)	06:34	110	12:26	57S	18:16	248
2024	Nov	03	(Sun)	07:25	114	13:13	53S	19:00	244
2024	Nov	04	(Mon)	08:19	117	14:04	50S	19:49	242
2024	Nov	05	(Tue)	09:14	119	14:58	49S	20:42	241
2024	Nov	06	(Wed)	10:10	119	15:54	49S	21:39	241
2024	Nov	07	(Thu)	11:04	118	16:50	51S	22:37	244
2024	Nov	08	(Fri)	11:55	115	17:44	55S	23:35	247
2024	Nov	09	(Sat)	12:43	110	18:36	59S		
2024	Nov	10	(Sun)	13:28	104	19:26	65S	00:32	253
2024	Nov	11	(Mon)	14:11	97	20:15	72S	01:28	259
2024	Nov	12	(Tue)	14:53	90	21:05	80S	02:24	266
2024	Nov	13	(Wed)	15:36	83	21:55	87S	03:20	274
2024	Nov	14	(Thu)	16:22	76	22:48	88N	04:18	281
2024	Nov	15	(Fri)	17:12	69	23:45	82N	05:18	288
2024	Nov	16	(Sat)	18:07	65			06:22	293
2024	Nov	17	(Sun)	19:06	62	00:46	77N	07:28	297
2024	Nov	18	(Mon)	20:08	61	01:49	75N	08:33	299
2024	Nov	19	(Tue)	21:10	62	02:52	75N	09:35	299
2024	Nov	20	(Wed)	22:09	65	03:51	76N	10:31	297
2024	Nov	21	(Thu)	23:04	69	04:46	80N	11:20	293
2024	Nov	22	(Fri)	23:54	74	05:35	84N	12:03	288
2024	Nov	23	(Sat)			06:20	89N	12:42	283
2024	Nov	24	(Sun)	00:42	80	07:01	87S	13:17	277
2024	Nov	25	(Mon)	01:27	86	07:40	81S	13:51	271
2024	Nov	26	(Tue)	02:11	91	08:19	75S	14:24	266
2024	Nov	27	(Wed)	02:55	97	08:58	69S	14:58	260
2024	Nov	28	(Thu)	03:41	103	09:39	64S	15:34	254
2024	Nov	29	(Fri)	04:28	108	10:22	59S	16:14	249
2024	Nov	30	(Sat)	05:19	113	11:09	54S	16:57	245
2024	Dec	01	(Sun)	06:12	116	11:59	51S	17:45	242
2024	Dec	02	(Mon)	07:08	119	12:53	49S	18:37	241
2024	Dec	03	(Tue)	08:05	119	13:49	49S	19:34	241
2024	Dec	04	(Wed)	09:00	118	14:45	50S	20:32	243
2024	Dec	05	(Thu)	09:52	115	15:40	54S	21:30	246
2024	Dec	06	(Fri)	10:41	111	16:33	58S	22:27	251
2024	Dec	07	(Sat)	11:26	106	17:23	64S	23:23	257
2024	Dec	08	(Sun)	12:08	99	18:11	70S		
2024	Dec	09	(Mon)	12:49	93	18:58	77S	00:17	264
2024	Dec	10	(Tue)	13:30	85	19:46	84S	01:10	271
2024	Dec	11	(Wed)	14:13	78	20:36	90N	02:05	278
2024	Dec	12	(Thu)	15:00	72	21:30	84N	03:02	285
2024	Dec	13	(Fri)	15:51	67	22:27	79N	04:03	291
2024	Dec	14	(Sat)	16:47	63	23:29	76N	05:07	296
2024	Dec	15	(Sun)	17:48	61			06:12	298
2024	Dec	16	(Mon)	18:50	61	00:32	75N	07:16	299
2024	Dec	17	(Tue)	19:52	63	01:33	75N	08:15	298
2024	Dec	18	(Wed)	20:50	67	02:31	78N	09:09	295
2024	Dec	19	(Thu)	21:44	72	03:24	82N	09:55	290
2024	Dec	20	(Fri)	22:34	77	04:12	87N	10:37	285
2024	Dec	21	(Sat)	23:21	83	04:56	89S	11:14	280
2024	Dec	22	(Sun)			05:36	83S	11:49	274
2024	Dec	23	(Mon)	00:06	89	06:16	77S	12:23	268
2024	Dec	24	(Tue)	00:50	95	06:54	71S	12:57	262
2024	Dec	25	(Wed)	01:35	101	07:34	66S	13:32	256
2024	Dec	26	(Thu)	02:21	106	08:16	60S	14:09	251
2024	Dec	27	(Fri)	03:10	111	09:02	56S	14:51	247
2024	Dec	28	(Sat)	04:03	115	09:51	52S	15:37	243
2024	Dec	29	(Sun)	04:58	118	10:44	50S	16:28	241
2024	Dec	30	(Mon)	05:55	119	11:40	49S	17:24	241
2024	Dec	31	(Tue)	06:52	119	12:37	50S	18:23	242