

Sun

VTMW

Location: E102°19'00.0", N13°46'00.0", 200m
(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)	05:44	06:34 114		12:14 54S	17:54 246		18:44
2024 Jan 02 (Tue)	05:45	06:34 113		12:14 54S	17:54 247		18:44
2024 Jan 03 (Wed)	05:45	06:35 113		12:15 54S	17:55 247		18:45
2024 Jan 04 (Thu)	05:46	06:35 113		12:15 54S	17:56 247		18:45
2024 Jan 05 (Fri)	05:46	06:35 113		12:16 54S	17:56 247		18:46
2024 Jan 06 (Sat)	05:46	06:36 113		12:16 54S	17:57 247		18:46
2024 Jan 07 (Sun)	05:47	06:36 113		12:17 55S	17:57 247		18:47
2024 Jan 08 (Mon)	05:47	06:36 113		12:17 55S	17:58 247		18:47
2024 Jan 09 (Tue)	05:47	06:37 113		12:18 55S	17:58 247		18:48
2024 Jan 10 (Wed)	05:48	06:37 113		12:18 55S	17:59 248		18:48
2024 Jan 11 (Thu)	05:48	06:37 112		12:18 55S	18:00 248		18:49
2024 Jan 12 (Fri)	05:48	06:37 112		12:19 55S	18:00 248		18:49
2024 Jan 13 (Sat)	05:48	06:38 112		12:19 55S	18:01 248		18:50
2024 Jan 14 (Sun)	05:49	06:38 112		12:20 56S	18:01 248		18:50
2024 Jan 15 (Mon)	05:49	06:38 112		12:20 56S	18:02 248		18:51
2024 Jan 16 (Tue)	05:49	06:38 112		12:20 56S	18:02 249		18:51
2024 Jan 17 (Wed)	05:49	06:38 111		12:21 56S	18:03 249		18:52
2024 Jan 18 (Thu)	05:49	06:38 111		12:21 56S	18:04 249		18:52
2024 Jan 19 (Fri)	05:50	06:38 111		12:21 57S	18:04 249		18:53
2024 Jan 20 (Sat)	05:50	06:39 111		12:22 57S	18:05 249		18:53
2024 Jan 21 (Sun)	05:50	06:39 110		12:22 57S	18:05 250		18:54
2024 Jan 22 (Mon)	05:50	06:39 110		12:22 57S	18:06 250		18:54
2024 Jan 23 (Tue)	05:50	06:39 110		12:22 57S	18:06 250		18:55
2024 Jan 24 (Wed)	05:50	06:39 110		12:23 58S	18:07 250		18:55
2024 Jan 25 (Thu)	05:50	06:39 110		12:23 58S	18:07 251		18:56
2024 Jan 26 (Fri)	05:50	06:39 109		12:23 58S	18:08 251		18:56
2024 Jan 27 (Sat)	05:50	06:39 109		12:23 58S	18:08 251		18:56
2024 Jan 28 (Sun)	05:50	06:39 109		12:24 59S	18:09 251		18:57
2024 Jan 29 (Mon)	05:50	06:38 108		12:24 59S	18:09 252		18:57
2024 Jan 30 (Tue)	05:50	06:38 108		12:24 59S	18:10 252		18:58
2024 Jan 31 (Wed)	05:50	06:38 108		12:24 59S	18:10 252		18:58
2024 Feb 01 (Thu)	05:50	06:38 108		12:24 60S	18:10 253		18:58
2024 Feb 02 (Fri)	05:50	06:38 107		12:24 60S	18:11 253		18:59
2024 Feb 03 (Sat)	05:50	06:38 107		12:24 60S	18:11 253		18:59
2024 Feb 04 (Sun)	05:50	06:38 107		12:25 61S	18:12 253		18:59
2024 Feb 05 (Mon)	05:50	06:37 106		12:25 61S	18:12 254		19:00
2024 Feb 06 (Tue)	05:50	06:37 106		12:25 61S	18:13 254		19:00
2024 Feb 07 (Wed)	05:49	06:37 106		12:25 61S	18:13 254		19:00
2024 Feb 08 (Thu)	05:49	06:37 105		12:25 62S	18:13 255		19:01
2024 Feb 09 (Fri)	05:49	06:36 105		12:25 62S	18:14 255		19:01
2024 Feb 10 (Sat)	05:49	06:36 105		12:25 62S	18:14 255		19:01
2024 Feb 11 (Sun)	05:48	06:36 104		12:25 63S	18:14 256		19:02
2024 Feb 12 (Mon)	05:48	06:35 104		12:25 63S	18:15 256		19:02
2024 Feb 13 (Tue)	05:48	06:35 104		12:25 63S	18:15 256		19:02
2024 Feb 14 (Wed)	05:48	06:35 103		12:25 64S	18:15 257		19:02
2024 Feb 15 (Thu)	05:47	06:34 103		12:25 64S	18:16 257		19:03
2024 Feb 16 (Fri)	05:47	06:34 103		12:25 64S	18:16 257		19:03
2024 Feb 17 (Sat)	05:47	06:33 102		12:25 65S	18:16 258		19:03
2024 Feb 18 (Sun)	05:46	06:33 102		12:25 65S	18:17 258		19:03
2024 Feb 19 (Mon)	05:46	06:33 102		12:25 65S	18:17 258		19:04
2024 Feb 20 (Tue)	05:45	06:32 101		12:25 66S	18:17 259		19:04
2024 Feb 21 (Wed)	05:45	06:32 101		12:24 66S	18:17 259		19:04
2024 Feb 22 (Thu)	05:45	06:31 101		12:24 67S	18:18 260		19:04
2024 Feb 23 (Fri)	05:44	06:31 100		12:24 67S	18:18 260		19:04
2024 Feb 24 (Sat)	05:44	06:30 100		12:24 67S	18:18 260		19:04

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

2024	May	02	(Thu)	05:00	05:49	74	12:08	89N	18:27	286	19:15
2024	May	03	(Fri)	05:00	05:48	74	12:08	89N	18:27	287	19:16
2024	May	04	(Sat)	04:59	05:48	73	12:07	88N	18:27	287	19:16
2024	May	05	(Sun)	04:59	05:47	73	12:07	88N	18:28	287	19:16
2024	May	06	(Mon)	04:58	05:47	73	12:07	88N	18:28	287	19:16
2024	May	07	(Tue)	04:58	05:47	72	12:07	88N	18:28	288	19:17
2024	May	08	(Wed)	04:58	05:46	72	12:07	87N	18:28	288	19:17
2024	May	09	(Thu)	04:57	05:46	72	12:07	87N	18:29	288	19:17
2024	May	10	(Fri)	04:57	05:46	72	12:07	87N	18:29	289	19:18
2024	May	11	(Sat)	04:56	05:45	71	12:07	86N	18:29	289	19:18
2024	May	12	(Sun)	04:56	05:45	71	12:07	86N	18:29	289	19:19
2024	May	13	(Mon)	04:56	05:45	71	12:07	86N	18:30	289	19:19
2024	May	14	(Tue)	04:55	05:44	71	12:07	86N	18:30	290	19:19
2024	May	15	(Wed)	04:55	05:44	70	12:07	85N	18:30	290	19:20
2024	May	16	(Thu)	04:55	05:44	70	12:07	85N	18:30	290	19:20
2024	May	17	(Fri)	04:54	05:44	70	12:07	85N	18:31	290	19:20
2024	May	18	(Sat)	04:54	05:44	70	12:07	85N	18:31	291	19:21
2024	May	19	(Sun)	04:54	05:43	69	12:07	85N	18:31	291	19:21
2024	May	20	(Mon)	04:53	05:43	69	12:07	84N	18:32	291	19:21
2024	May	21	(Tue)	04:53	05:43	69	12:07	84N	18:32	291	19:22
2024	May	22	(Wed)	04:53	05:43	69	12:07	84N	18:32	291	19:22
2024	May	23	(Thu)	04:53	05:43	69	12:08	84N	18:32	292	19:23
2024	May	24	(Fri)	04:52	05:43	68	12:08	84N	18:33	292	19:23
2024	May	25	(Sat)	04:52	05:42	68	12:08	83N	18:33	292	19:23
2024	May	26	(Sun)	04:52	05:42	68	12:08	83N	18:33	292	19:24
2024	May	27	(Mon)	04:52	05:42	68	12:08	83N	18:34	292	19:24
2024	May	28	(Tue)	04:52	05:42	68	12:08	83N	18:34	292	19:24
2024	May	29	(Wed)	04:52	05:42	67	12:08	83N	18:34	293	19:25
2024	May	30	(Thu)	04:52	05:42	67	12:08	83N	18:35	293	19:25
2024	May	31	(Fri)	04:51	05:42	67	12:08	82N	18:35	293	19:26
2024	Jun	01	(Sat)	04:51	05:42	67	12:09	82N	18:35	293	19:26
2024	Jun	02	(Sun)	04:51	05:42	67	12:09	82N	18:36	293	19:26
2024	Jun	03	(Mon)	04:51	05:42	67	12:09	82N	18:36	293	19:27
2024	Jun	04	(Tue)	04:51	05:42	67	12:09	82N	18:36	293	19:27
2024	Jun	05	(Wed)	04:51	05:42	67	12:09	82N	18:37	294	19:27
2024	Jun	06	(Thu)	04:51	05:42	66	12:09	82N	18:37	294	19:28
2024	Jun	07	(Fri)	04:51	05:42	66	12:10	82N	18:37	294	19:28
2024	Jun	08	(Sat)	04:51	05:42	66	12:10	82N	18:37	294	19:28
2024	Jun	09	(Sun)	04:51	05:42	66	12:10	82N	18:38	294	19:29
2024	Jun	10	(Mon)	04:52	05:43	66	12:10	81N	18:38	294	19:29
2024	Jun	11	(Tue)	04:52	05:43	66	12:10	81N	18:38	294	19:29
2024	Jun	12	(Wed)	04:52	05:43	66	12:11	81N	18:39	294	19:30
2024	Jun	13	(Thu)	04:52	05:43	66	12:11	81N	18:39	294	19:30
2024	Jun	14	(Fri)	04:52	05:43	66	12:11	81N	18:39	294	19:30
2024	Jun	15	(Sat)	04:52	05:43	66	12:11	81N	18:39	294	19:31
2024	Jun	16	(Sun)	04:52	05:43	66	12:12	81N	18:40	294	19:31
2024	Jun	17	(Mon)	04:52	05:44	66	12:12	81N	18:40	294	19:31
2024	Jun	18	(Tue)	04:53	05:44	66	12:12	81N	18:40	294	19:31
2024	Jun	19	(Wed)	04:53	05:44	66	12:12	81N	18:40	294	19:32
2024	Jun	20	(Thu)	04:53	05:44	66	12:12	81N	18:41	294	19:32
2024	Jun	21	(Fri)	04:53	05:44	66	12:13	81N	18:41	294	19:32
2024	Jun	22	(Sat)	04:53	05:45	66	12:13	81N	18:41	294	19:32
2024	Jun	23	(Sun)	04:54	05:45	66	12:13	81N	18:41	294	19:32
2024	Jun	24	(Mon)	04:54	05:45	66	12:13	81N	18:41	294	19:33
2024	Jun	25	(Tue)	04:54	05:45	66	12:13	81N	18:42	294	19:33
2024	Jun	26	(Wed)	04:54	05:46	66	12:14	81N	18:42	294	19:33
2024	Jun	27	(Thu)	04:55	05:46	66	12:14	81N	18:42	294	19:33
2024	Jun	28	(Fri)	04:55	05:46	66	12:14	81N	18:42	294	19:33
2024	Jun	29	(Sat)	04:55	05:46	66	12:14	81N	18:42	294	19:33
2024	Jun	30	(Sun)	04:56	05:47	66	12:14	81N	18:42	294	19:33
2024	Jul	01	(Mon)	04:56	05:47	66	12:15	81N	18:42	294	19:33
2024	Jul	02	(Tue)	04:56	05:47	66	12:15	81N	18:42	294	19:34
2024	Jul	03	(Wed)	04:56	05:47	66	12:15	82N	18:43	294	19:34
2024	Jul	04	(Thu)	04:57	05:48	66	12:15	82N	18:43	294	19:34
2024	Jul	05	(Fri)	04:57	05:48	66	12:15	82N	18:43	294	19:34
2024	Jul	06	(Sat)	04:57	05:48	66	12:16	82N	18:43	294	19:34
2024	Jul	07	(Sun)	04:58	05:49	67	12:16	82N	18:43	293	19:34

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

2024	Sep	13	(Fri)	05:13	06:00	86	12:07	81S	18:13	274	19:00
2024	Sep	14	(Sat)	05:13	06:00	86	12:06	80S	18:13	273	18:59
2024	Sep	15	(Sun)	05:14	06:00	87	12:06	80S	18:12	273	18:58
2024	Sep	16	(Mon)	05:14	06:00	87	12:06	79S	18:11	273	18:57
2024	Sep	17	(Tue)	05:14	06:00	88	12:05	79S	18:10	272	18:56
2024	Sep	18	(Wed)	05:14	06:00	88	12:05	79S	18:10	272	18:56
2024	Sep	19	(Thu)	05:14	06:00	88	12:04	78S	18:09	271	18:55
2024	Sep	20	(Fri)	05:14	06:00	89	12:04	78S	18:08	271	18:54
2024	Sep	21	(Sat)	05:14	06:00	89	12:04	77S	18:07	271	18:53
2024	Sep	22	(Sun)	05:14	06:00	90	12:03	77S	18:07	270	18:53
2024	Sep	23	(Mon)	05:14	06:00	90	12:03	77S	18:06	270	18:52
2024	Sep	24	(Tue)	05:14	06:00	90	12:03	76S	18:05	269	18:51
2024	Sep	25	(Wed)	05:14	06:00	91	12:02	76S	18:05	269	18:51
2024	Sep	26	(Thu)	05:14	06:00	91	12:02	76S	18:04	269	18:50
2024	Sep	27	(Fri)	05:14	06:00	92	12:02	75S	18:03	268	18:49
2024	Sep	28	(Sat)	05:14	06:00	92	12:01	75S	18:02	268	18:48
2024	Sep	29	(Sun)	05:14	06:00	92	12:01	74S	18:02	267	18:48
2024	Sep	30	(Mon)	05:14	06:00	93	12:01	74S	18:01	267	18:47
2024	Oct	01	(Tue)	05:14	06:00	93	12:00	74S	18:00	267	18:46
2024	Oct	02	(Wed)	05:14	06:00	94	12:00	73S	18:00	266	18:46
2024	Oct	03	(Thu)	05:14	06:00	94	12:00	73S	17:59	266	18:45
2024	Oct	04	(Fri)	05:14	06:00	94	11:59	72S	17:58	265	18:44
2024	Oct	05	(Sat)	05:14	06:00	95	11:59	72S	17:58	265	18:44
2024	Oct	06	(Sun)	05:14	06:01	95	11:59	72S	17:57	265	18:43
2024	Oct	07	(Mon)	05:15	06:01	96	11:59	71S	17:56	264	18:42
2024	Oct	08	(Tue)	05:15	06:01	96	11:58	71S	17:56	264	18:42
2024	Oct	09	(Wed)	05:15	06:01	96	11:58	70S	17:55	263	18:41
2024	Oct	10	(Thu)	05:15	06:01	97	11:58	70S	17:54	263	18:40
2024	Oct	11	(Fri)	05:15	06:01	97	11:57	70S	17:54	263	18:40
2024	Oct	12	(Sat)	05:15	06:01	98	11:57	69S	17:53	262	18:39
2024	Oct	13	(Sun)	05:15	06:01	98	11:57	69S	17:52	262	18:39
2024	Oct	14	(Mon)	05:15	06:01	98	11:57	69S	17:52	262	18:38
2024	Oct	15	(Tue)	05:15	06:02	99	11:56	68S	17:51	261	18:38
2024	Oct	16	(Wed)	05:15	06:02	99	11:56	68S	17:51	261	18:37
2024	Oct	17	(Thu)	05:15	06:02	99	11:56	68S	17:50	260	18:37
2024	Oct	18	(Fri)	05:16	06:02	100	11:56	67S	17:49	260	18:36
2024	Oct	19	(Sat)	05:16	06:02	100	11:56	67S	17:49	260	18:35
2024	Oct	20	(Sun)	05:16	06:02	101	11:55	66S	17:48	259	18:35
2024	Oct	21	(Mon)	05:16	06:03	101	11:55	66S	17:48	259	18:35
2024	Oct	22	(Tue)	05:16	06:03	101	11:55	66S	17:47	259	18:34
2024	Oct	23	(Wed)	05:16	06:03	102	11:55	65S	17:47	258	18:34
2024	Oct	24	(Thu)	05:16	06:03	102	11:55	65S	17:46	258	18:33
2024	Oct	25	(Fri)	05:17	06:03	102	11:55	65S	17:46	257	18:33
2024	Oct	26	(Sat)	05:17	06:04	103	11:55	64S	17:46	257	18:32
2024	Oct	27	(Sun)	05:17	06:04	103	11:55	64S	17:45	257	18:32
2024	Oct	28	(Mon)	05:17	06:04	103	11:54	64S	17:45	256	18:32
2024	Oct	29	(Tue)	05:17	06:04	104	11:54	63S	17:44	256	18:31
2024	Oct	30	(Wed)	05:18	06:05	104	11:54	63S	17:44	256	18:31
2024	Oct	31	(Thu)	05:18	06:05	104	11:54	63S	17:44	255	18:31
2024	Nov	01	(Fri)	05:18	06:05	105	11:54	62S	17:43	255	18:30
2024	Nov	02	(Sat)	05:18	06:06	105	11:54	62S	17:43	255	18:30
2024	Nov	03	(Sun)	05:19	06:06	105	11:54	62S	17:42	254	18:30
2024	Nov	04	(Mon)	05:19	06:06	106	11:54	61S	17:42	254	18:30
2024	Nov	05	(Tue)	05:19	06:07	106	11:54	61S	17:42	254	18:29
2024	Nov	06	(Wed)	05:19	06:07	106	11:54	61S	17:42	254	18:29
2024	Nov	07	(Thu)	05:20	06:07	107	11:54	61S	17:41	253	18:29
2024	Nov	08	(Fri)	05:20	06:08	107	11:54	60S	17:41	253	18:29
2024	Nov	09	(Sat)	05:20	06:08	107	11:55	60S	17:41	253	18:29
2024	Nov	10	(Sun)	05:21	06:08	108	11:55	60S	17:41	252	18:29
2024	Nov	11	(Mon)	05:21	06:09	108	11:55	59S	17:41	252	18:29
2024	Nov	12	(Tue)	05:21	06:09	108	11:55	59S	17:40	252	18:28
2024	Nov	13	(Wed)	05:22	06:10	108	11:55	59S	17:40	252	18:28
2024	Nov	14	(Thu)	05:22	06:10	109	11:55	59S	17:40	251	18:28
2024	Nov	15	(Fri)	05:22	06:11	109	11:55	58S	17:40	251	18:28
2024	Nov	16	(Sat)	05:23	06:11	109	11:56	58S	17:40	251	18:28
2024	Nov	17	(Sun)	05:23	06:11	109	11:56	58S	17:40	250	18:28
2024	Nov	18	(Mon)	05:23	06:12	110	11:56	58S	17:40	250	18:28

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

Sun

VTMW

Location: E102°19'00.0", N13°46'00.0", 200m
(Longitude referred to Greenwich meridian)

Time Zone: 7h 00m east of Greenwich

Date (Zone)	Begin Civil Twilight h m	Rise h m °	Az. °	Transit Alt. h m °	Set h m °	Az. °	End Civil Twilight h m				
2024	Jan	01	(Mon)	06:11	06:34	114	12:14	54S	17:54	246	18:17
2024	Jan	02	(Tue)	06:11	06:34	113	12:14	54S	17:54	247	18:18
2024	Jan	03	(Wed)	06:12	06:35	113	12:15	54S	17:55	247	18:18
2024	Jan	04	(Thu)	06:12	06:35	113	12:15	54S	17:56	247	18:19
2024	Jan	05	(Fri)	06:12	06:35	113	12:16	54S	17:56	247	18:19
2024	Jan	06	(Sat)	06:13	06:36	113	12:16	54S	17:57	247	18:20
2024	Jan	07	(Sun)	06:13	06:36	113	12:17	55S	17:57	247	18:20
2024	Jan	08	(Mon)	06:13	06:36	113	12:17	55S	17:58	247	18:21
2024	Jan	09	(Tue)	06:14	06:37	113	12:18	55S	17:58	247	18:21
2024	Jan	10	(Wed)	06:14	06:37	113	12:18	55S	17:59	248	18:22
2024	Jan	11	(Thu)	06:14	06:37	112	12:18	55S	18:00	248	18:22

2024	Jan	12	(Fri)	06:15	06:37	112	12:19	55S	18:00	248	18:23
2024	Jan	13	(Sat)	06:15	06:38	112	12:19	55S	18:01	248	18:24
2024	Jan	14	(Sun)	06:15	06:38	112	12:20	56S	18:01	248	18:24
2024	Jan	15	(Mon)	06:15	06:38	112	12:20	56S	18:02	248	18:25
2024	Jan	16	(Tue)	06:15	06:38	112	12:20	56S	18:02	249	18:25
2024	Jan	17	(Wed)	06:16	06:38	111	12:21	56S	18:03	249	18:26
2024	Jan	18	(Thu)	06:16	06:38	111	12:21	56S	18:04	249	18:26
2024	Jan	19	(Fri)	06:16	06:38	111	12:21	57S	18:04	249	18:27
2024	Jan	20	(Sat)	06:16	06:39	111	12:22	57S	18:05	249	18:27
2024	Jan	21	(Sun)	06:16	06:39	110	12:22	57S	18:05	250	18:28
2024	Jan	22	(Mon)	06:16	06:39	110	12:22	57S	18:06	250	18:28
2024	Jan	23	(Tue)	06:16	06:39	110	12:22	57S	18:06	250	18:29
2024	Jan	24	(Wed)	06:16	06:39	110	12:23	58S	18:07	250	18:29
2024	Jan	25	(Thu)	06:16	06:39	110	12:23	58S	18:07	251	18:30
2024	Jan	26	(Fri)	06:16	06:39	109	12:23	58S	18:08	251	18:30
2024	Jan	27	(Sat)	06:16	06:39	109	12:23	58S	18:08	251	18:31
2024	Jan	28	(Sun)	06:16	06:39	109	12:24	59S	18:09	251	18:31
2024	Jan	29	(Mon)	06:16	06:38	108	12:24	59S	18:09	252	18:31
2024	Jan	30	(Tue)	06:16	06:38	108	12:24	59S	18:10	252	18:32
2024	Jan	31	(Wed)	06:16	06:38	108	12:24	59S	18:10	252	18:32
2024	Feb	01	(Thu)	06:16	06:38	108	12:24	60S	18:10	253	18:33
2024	Feb	02	(Fri)	06:16	06:38	107	12:24	60S	18:11	253	18:33
2024	Feb	03	(Sat)	06:16	06:38	107	12:24	60S	18:11	253	18:33
2024	Feb	04	(Sun)	06:15	06:38	107	12:25	61S	18:12	253	18:34
2024	Feb	05	(Mon)	06:15	06:37	106	12:25	61S	18:12	254	18:34
2024	Feb	06	(Tue)	06:15	06:37	106	12:25	61S	18:13	254	18:35
2024	Feb	07	(Wed)	06:15	06:37	106	12:25	61S	18:13	254	18:35
2024	Feb	08	(Thu)	06:15	06:37	105	12:25	62S	18:13	255	18:35
2024	Feb	09	(Fri)	06:14	06:36	105	12:25	62S	18:14	255	18:36
2024	Feb	10	(Sat)	06:14	06:36	105	12:25	62S	18:14	255	18:36
2024	Feb	11	(Sun)	06:14	06:36	104	12:25	63S	18:14	256	18:36
2024	Feb	12	(Mon)	06:13	06:35	104	12:25	63S	18:15	256	18:37
2024	Feb	13	(Tue)	06:13	06:35	104	12:25	63S	18:15	256	18:37
2024	Feb	14	(Wed)	06:13	06:35	103	12:25	64S	18:15	257	18:37
2024	Feb	15	(Thu)	06:12	06:34	103	12:25	64S	18:16	257	18:37
2024	Feb	16	(Fri)	06:12	06:34	103	12:25	64S	18:16	257	18:38
2024	Feb	17	(Sat)	06:12	06:33	102	12:25	65S	18:16	258	18:38
2024	Feb	18	(Sun)	06:11	06:33	102	12:25	65S	18:17	258	18:38
2024	Feb	19	(Mon)	06:11	06:33	102	12:25	65S	18:17	258	18:38
2024	Feb	20	(Tue)	06:11	06:32	101	12:25	66S	18:17	259	18:39
2024	Feb	21	(Wed)	06:10	06:32	101	12:24	66S	18:17	259	18:39
2024	Feb	22	(Thu)	06:10	06:31	101	12:24	67S	18:18	260	18:39
2024	Feb	23	(Fri)	06:09	06:31	100	12:24	67S	18:18	260	18:39
2024	Feb	24	(Sat)	06:09	06:30	100	12:24	67S	18:18	260	18:40
2024	Feb	25	(Sun)	06:08	06:30	99	12:24	68S	18:18	261	18:40
2024	Feb	26	(Mon)	06:08	06:29	99	12:24	68S	18:18	261	18:40
2024	Feb	27	(Tue)	06:07	06:29	99	12:24	68S	18:19	262	18:40
2024	Feb	28	(Wed)	06:07	06:28	98	12:23	69S	18:19	262	18:40
2024	Feb	29	(Thu)	06:06	06:28	98	12:23	69S	18:19	262	18:40
2024	Mar	01	(Fri)	06:06	06:27	98	12:23	70S	18:19	263	18:41
2024	Mar	02	(Sat)	06:05	06:26	97	12:23	70S	18:19	263	18:41
2024	Mar	03	(Sun)	06:04	06:26	97	12:23	70S	18:20	263	18:41
2024	Mar	04	(Mon)	06:04	06:25	96	12:22	71S	18:20	264	18:41
2024	Mar	05	(Tue)	06:03	06:25	96	12:22	71S	18:20	264	18:41
2024	Mar	06	(Wed)	06:03	06:24	96	12:22	71S	18:20	265	18:41
2024	Mar	07	(Thu)	06:02	06:23	95	12:22	72S	18:20	265	18:41
2024	Mar	08	(Fri)	06:01	06:23	95	12:21	72S	18:20	265	18:42
2024	Mar	09	(Sat)	06:01	06:22	94	12:21	73S	18:20	266	18:42
2024	Mar	10	(Sun)	06:00	06:21	94	12:21	73S	18:21	266	18:42
2024	Mar	11	(Mon)	06:00	06:21	94	12:21	73S	18:21	267	18:42
2024	Mar	12	(Tue)	05:59	06:20	93	12:20	74S	18:21	267	18:42
2024	Mar	13	(Wed)	05:58	06:20	93	12:20	74S	18:21	267	18:42
2024	Mar	14	(Thu)	05:58	06:19	92	12:20	75S	18:21	268	18:42
2024	Mar	15	(Fri)	05:57	06:18	92	12:20	75S	18:21	268	18:42
2024	Mar	16	(Sat)	05:56	06:18	91	12:19	75S	18:21	269	18:43
2024	Mar	17	(Sun)	05:56	06:17	91	12:19	76S	18:21	269	18:43
2024	Mar	18	(Mon)	05:55	06:16	91	12:19	76S	18:21	270	18:43

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

2024	May	25	(Sat)	05:19	05:42	68	12:08	83N	18:33	292	18:56
2024	May	26	(Sun)	05:19	05:42	68	12:08	83N	18:33	292	18:57
2024	May	27	(Mon)	05:19	05:42	68	12:08	83N	18:34	292	18:57
2024	May	28	(Tue)	05:19	05:42	68	12:08	83N	18:34	292	18:57
2024	May	29	(Wed)	05:19	05:42	67	12:08	83N	18:34	293	18:58
2024	May	30	(Thu)	05:19	05:42	67	12:08	83N	18:35	293	18:58
2024	May	31	(Fri)	05:19	05:42	67	12:08	82N	18:35	293	18:58
2024	Jun	01	(Sat)	05:19	05:42	67	12:09	82N	18:35	293	18:59
2024	Jun	02	(Sun)	05:19	05:42	67	12:09	82N	18:36	293	18:59
2024	Jun	03	(Mon)	05:19	05:42	67	12:09	82N	18:36	293	18:59
2024	Jun	04	(Tue)	05:19	05:42	67	12:09	82N	18:36	293	19:00
2024	Jun	05	(Wed)	05:19	05:42	67	12:09	82N	18:37	294	19:00
2024	Jun	06	(Thu)	05:19	05:42	66	12:09	82N	18:37	294	19:00
2024	Jun	07	(Fri)	05:19	05:42	66	12:10	82N	18:37	294	19:01
2024	Jun	08	(Sat)	05:19	05:42	66	12:10	82N	18:37	294	19:01
2024	Jun	09	(Sun)	05:19	05:42	66	12:10	82N	18:38	294	19:01
2024	Jun	10	(Mon)	05:19	05:43	66	12:10	81N	18:38	294	19:01
2024	Jun	11	(Tue)	05:19	05:43	66	12:10	81N	18:38	294	19:02
2024	Jun	12	(Wed)	05:19	05:43	66	12:11	81N	18:39	294	19:02
2024	Jun	13	(Thu)	05:19	05:43	66	12:11	81N	18:39	294	19:02
2024	Jun	14	(Fri)	05:20	05:43	66	12:11	81N	18:39	294	19:03
2024	Jun	15	(Sat)	05:20	05:43	66	12:11	81N	18:39	294	19:03
2024	Jun	16	(Sun)	05:20	05:43	66	12:12	81N	18:40	294	19:03
2024	Jun	17	(Mon)	05:20	05:44	66	12:12	81N	18:40	294	19:03
2024	Jun	18	(Tue)	05:20	05:44	66	12:12	81N	18:40	294	19:04
2024	Jun	19	(Wed)	05:20	05:44	66	12:12	81N	18:40	294	19:04
2024	Jun	20	(Thu)	05:21	05:44	66	12:12	81N	18:41	294	19:04
2024	Jun	21	(Fri)	05:21	05:44	66	12:13	81N	18:41	294	19:04
2024	Jun	22	(Sat)	05:21	05:45	66	12:13	81N	18:41	294	19:05
2024	Jun	23	(Sun)	05:21	05:45	66	12:13	81N	18:41	294	19:05
2024	Jun	24	(Mon)	05:22	05:45	66	12:13	81N	18:41	294	19:05
2024	Jun	25	(Tue)	05:22	05:45	66	12:13	81N	18:42	294	19:05
2024	Jun	26	(Wed)	05:22	05:46	66	12:14	81N	18:42	294	19:05
2024	Jun	27	(Thu)	05:22	05:46	66	12:14	81N	18:42	294	19:05
2024	Jun	28	(Fri)	05:23	05:46	66	12:14	81N	18:42	294	19:06
2024	Jun	29	(Sat)	05:23	05:46	66	12:14	81N	18:42	294	19:06
2024	Jun	30	(Sun)	05:23	05:47	66	12:14	81N	18:42	294	19:06
2024	Jul	01	(Mon)	05:23	05:47	66	12:15	81N	18:42	294	19:06
2024	Jul	02	(Tue)	05:24	05:47	66	12:15	81N	18:42	294	19:06
2024	Jul	03	(Wed)	05:24	05:47	66	12:15	82N	18:43	294	19:06
2024	Jul	04	(Thu)	05:24	05:48	66	12:15	82N	18:43	294	19:06
2024	Jul	05	(Fri)	05:25	05:48	66	12:15	82N	18:43	294	19:06
2024	Jul	06	(Sat)	05:25	05:48	66	12:16	82N	18:43	294	19:06
2024	Jul	07	(Sun)	05:25	05:49	67	12:16	82N	18:43	293	19:06
2024	Jul	08	(Mon)	05:26	05:49	67	12:16	82N	18:43	293	19:06
2024	Jul	09	(Tue)	05:26	05:49	67	12:16	82N	18:43	293	19:06
2024	Jul	10	(Wed)	05:26	05:50	67	12:16	82N	18:43	293	19:06
2024	Jul	11	(Thu)	05:27	05:50	67	12:16	82N	18:43	293	19:06
2024	Jul	12	(Fri)	05:27	05:50	67	12:16	83N	18:43	293	19:06
2024	Jul	13	(Sat)	05:27	05:50	67	12:17	83N	18:43	293	19:06
2024	Jul	14	(Sun)	05:27	05:51	67	12:17	83N	18:43	292	19:06
2024	Jul	15	(Mon)	05:28	05:51	68	12:17	83N	18:43	292	19:06
2024	Jul	16	(Tue)	05:28	05:51	68	12:17	83N	18:42	292	19:06
2024	Jul	17	(Wed)	05:28	05:52	68	12:17	83N	18:42	292	19:05
2024	Jul	18	(Thu)	05:29	05:52	68	12:17	84N	18:42	292	19:05
2024	Jul	19	(Fri)	05:29	05:52	68	12:17	84N	18:42	292	19:05
2024	Jul	20	(Sat)	05:29	05:52	69	12:17	84N	18:42	291	19:05
2024	Jul	21	(Sun)	05:30	05:53	69	12:17	84N	18:42	291	19:05
2024	Jul	22	(Mon)	05:30	05:53	69	12:17	84N	18:41	291	19:04
2024	Jul	23	(Tue)	05:30	05:53	69	12:17	85N	18:41	291	19:04
2024	Jul	24	(Wed)	05:31	05:53	69	12:17	85N	18:41	291	19:04
2024	Jul	25	(Thu)	05:31	05:54	70	12:17	85N	18:41	290	19:04
2024	Jul	26	(Fri)	05:31	05:54	70	12:17	85N	18:41	290	19:03
2024	Jul	27	(Sat)	05:31	05:54	70	12:17	85N	18:40	290	19:03
2024	Jul	28	(Sun)	05:32	05:54	70	12:17	86N	18:40	290	19:03
2024	Jul	29	(Mon)	05:32	05:55	71	12:17	86N	18:40	289	19:02
2024	Jul	30	(Tue)	05:32	05:55	71	12:17	86N	18:39	289	19:02

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

2024	Oct	06	(Sun)	05:39	06:01	95	11:59	72S	17:57	265	18:18
2024	Oct	07	(Mon)	05:39	06:01	96	11:59	71S	17:56	264	18:18
2024	Oct	08	(Tue)	05:39	06:01	96	11:58	71S	17:56	264	18:17
2024	Oct	09	(Wed)	05:39	06:01	96	11:58	70S	17:55	263	18:16
2024	Oct	10	(Thu)	05:40	06:01	97	11:58	70S	17:54	263	18:16
2024	Oct	11	(Fri)	05:40	06:01	97	11:57	70S	17:54	263	18:15
2024	Oct	12	(Sat)	05:40	06:01	98	11:57	69S	17:53	262	18:14
2024	Oct	13	(Sun)	05:40	06:01	98	11:57	69S	17:52	262	18:14
2024	Oct	14	(Mon)	05:40	06:01	98	11:57	69S	17:52	262	18:13
2024	Oct	15	(Tue)	05:40	06:02	99	11:56	68S	17:51	261	18:13
2024	Oct	16	(Wed)	05:40	06:02	99	11:56	68S	17:51	261	18:12
2024	Oct	17	(Thu)	05:40	06:02	99	11:56	68S	17:50	260	18:12
2024	Oct	18	(Fri)	05:40	06:02	100	11:56	67S	17:49	260	18:11
2024	Oct	19	(Sat)	05:41	06:02	100	11:56	67S	17:49	260	18:11
2024	Oct	20	(Sun)	05:41	06:02	101	11:55	66S	17:48	259	18:10
2024	Oct	21	(Mon)	05:41	06:03	101	11:55	66S	17:48	259	18:10
2024	Oct	22	(Tue)	05:41	06:03	101	11:55	66S	17:47	259	18:09
2024	Oct	23	(Wed)	05:41	06:03	102	11:55	65S	17:47	258	18:09
2024	Oct	24	(Thu)	05:41	06:03	102	11:55	65S	17:46	258	18:08
2024	Oct	25	(Fri)	05:42	06:03	102	11:55	65S	17:46	257	18:08
2024	Oct	26	(Sat)	05:42	06:04	103	11:55	64S	17:46	257	18:07
2024	Oct	27	(Sun)	05:42	06:04	103	11:55	64S	17:45	257	18:07
2024	Oct	28	(Mon)	05:42	06:04	103	11:54	64S	17:45	256	18:06
2024	Oct	29	(Tue)	05:43	06:04	104	11:54	63S	17:44	256	18:06
2024	Oct	30	(Wed)	05:43	06:05	104	11:54	63S	17:44	256	18:06
2024	Oct	31	(Thu)	05:43	06:05	104	11:54	63S	17:44	255	18:05
2024	Nov	01	(Fri)	05:43	06:05	105	11:54	62S	17:43	255	18:05
2024	Nov	02	(Sat)	05:44	06:06	105	11:54	62S	17:43	255	18:05
2024	Nov	03	(Sun)	05:44	06:06	105	11:54	62S	17:42	254	18:05
2024	Nov	04	(Mon)	05:44	06:06	106	11:54	61S	17:42	254	18:04
2024	Nov	05	(Tue)	05:45	06:07	106	11:54	61S	17:42	254	18:04
2024	Nov	06	(Wed)	05:45	06:07	106	11:54	61S	17:42	254	18:04
2024	Nov	07	(Thu)	05:45	06:07	107	11:54	61S	17:41	253	18:04
2024	Nov	08	(Fri)	05:46	06:08	107	11:54	60S	17:41	253	18:03
2024	Nov	09	(Sat)	05:46	06:08	107	11:55	60S	17:41	253	18:03
2024	Nov	10	(Sun)	05:46	06:08	108	11:55	60S	17:41	252	18:03
2024	Nov	11	(Mon)	05:47	06:09	108	11:55	59S	17:41	252	18:03
2024	Nov	12	(Tue)	05:47	06:09	108	11:55	59S	17:40	252	18:03
2024	Nov	13	(Wed)	05:47	06:10	108	11:55	59S	17:40	252	18:03
2024	Nov	14	(Thu)	05:48	06:10	109	11:55	59S	17:40	251	18:03
2024	Nov	15	(Fri)	05:48	06:11	109	11:55	58S	17:40	251	18:02
2024	Nov	16	(Sat)	05:49	06:11	109	11:56	58S	17:40	251	18:02
2024	Nov	17	(Sun)	05:49	06:11	109	11:56	58S	17:40	250	18:02
2024	Nov	18	(Mon)	05:49	06:12	110	11:56	58S	17:40	250	18:02
2024	Nov	19	(Tue)	05:50	06:12	110	11:56	57S	17:40	250	18:02
2024	Nov	20	(Wed)	05:50	06:13	110	11:56	57S	17:40	250	18:02
2024	Nov	21	(Thu)	05:51	06:13	110	11:57	57S	17:40	250	18:02
2024	Nov	22	(Fri)	05:51	06:14	111	11:57	57S	17:40	249	18:02
2024	Nov	23	(Sat)	05:52	06:14	111	11:57	57S	17:40	249	18:03
2024	Nov	24	(Sun)	05:52	06:15	111	11:57	56S	17:40	249	18:03
2024	Nov	25	(Mon)	05:53	06:15	111	11:58	56S	17:40	249	18:03
2024	Nov	26	(Tue)	05:53	06:16	111	11:58	56S	17:40	248	18:03
2024	Nov	27	(Wed)	05:54	06:16	112	11:58	56S	17:40	248	18:03
2024	Nov	28	(Thu)	05:54	06:17	112	11:59	56S	17:40	248	18:03
2024	Nov	29	(Fri)	05:55	06:17	112	11:59	55S	17:41	248	18:03
2024	Nov	30	(Sat)	05:55	06:18	112	11:59	55S	17:41	248	18:04
2024	Dec	01	(Sun)	05:56	06:19	112	12:00	55S	17:41	248	18:04
2024	Dec	02	(Mon)	05:56	06:19	112	12:00	55S	17:41	247	18:04
2024	Dec	03	(Tue)	05:57	06:20	113	12:01	55S	17:41	247	18:04
2024	Dec	04	(Wed)	05:57	06:20	113	12:01	55S	17:42	247	18:05
2024	Dec	05	(Thu)	05:58	06:21	113	12:01	55S	17:42	247	18:05
2024	Dec	06	(Fri)	05:58	06:21	113	12:02	54S	17:42	247	18:05
2024	Dec	07	(Sat)	05:59	06:22	113	12:02	54S	17:43	247	18:06
2024	Dec	08	(Sun)	05:59	06:22	113	12:03	54S	17:43	247	18:06
2024	Dec	09	(Mon)	06:00	06:23	113	12:03	54S	17:43	247	18:06
2024	Dec	10	(Tue)	06:00	06:24	113	12:04	54S	17:44	247	18:07
2024	Dec	11	(Wed)	06:01	06:24	114	12:04	54S	17:44	246	18:07

2024	Dec 12	(Thu)	06:02	06:25	114	12:05	54S	17:44	246	18:07
2024	Dec 13	(Fri)	06:02	06:25	114	12:05	54S	17:45	246	18:08
2024	Dec 14	(Sat)	06:03	06:26	114	12:05	54S	17:45	246	18:08
2024	Dec 15	(Sun)	06:03	06:26	114	12:06	54S	17:46	246	18:09
2024	Dec 16	(Mon)	06:04	06:27	114	12:06	54S	17:46	246	18:09
2024	Dec 17	(Tue)	06:04	06:27	114	12:07	54S	17:46	246	18:10
2024	Dec 18	(Wed)	06:05	06:28	114	12:07	54S	17:47	246	18:10
2024	Dec 19	(Thu)	06:05	06:28	114	12:08	54S	17:47	246	18:11
2024	Dec 20	(Fri)	06:06	06:29	114	12:08	54S	17:48	246	18:11
2024	Dec 21	(Sat)	06:06	06:29	114	12:09	54S	17:48	246	18:12
2024	Dec 22	(Sun)	06:07	06:30	114	12:09	54S	17:49	246	18:12
2024	Dec 23	(Mon)	06:07	06:30	114	12:10	54S	17:49	246	18:13
2024	Dec 24	(Tue)	06:08	06:31	114	12:10	54S	17:50	246	18:13
2024	Dec 25	(Wed)	06:08	06:31	114	12:11	54S	17:50	246	18:14
2024	Dec 26	(Thu)	06:09	06:32	114	12:11	54S	17:51	246	18:14
2024	Dec 27	(Fri)	06:09	06:32	114	12:12	54S	17:52	246	18:15
2024	Dec 28	(Sat)	06:10	06:33	114	12:12	54S	17:52	246	18:15
2024	Dec 29	(Sun)	06:10	06:33	114	12:13	54S	17:53	246	18:16
2024	Dec 30	(Mon)	06:10	06:34	114	12:13	54S	17:53	246	18:16
2024	Dec 31	(Tue)	06:11	06:34	114	12:14	54S	17:54	246	18:17

Moon

VTMW

Location: E102°19'00.0", N13°46'00.0", 200m
(Longitude referred to Greenwich meridian)

Time Zone: 7h 00m east of Greenwich

Date (Zone)			Rise	Az.	Transit	Alt.	Set	Az.
			h	m	°	h	m	°
2024	Jan 01	(Mon)	22:23	80	04:02	90S	10:24	282
2024	Jan 02	(Tue)	23:08	86	04:42	85S	10:58	277
2024	Jan 03	(Wed)	23:53	92	05:21	79S	11:31	271
2024	Jan 04	(Thu)			06:00	73S	12:05	265
2024	Jan 05	(Fri)	00:39	98	06:41	67S	12:40	259
2024	Jan 06	(Sat)	01:27	104	07:24	62S	13:18	253
2024	Jan 07	(Sun)	02:18	109	08:10	57S	14:00	248
2024	Jan 08	(Mon)	03:14	114	09:02	52S	14:48	244
2024	Jan 09	(Tue)	04:14	117	09:59	49S	15:43	242
2024	Jan 10	(Wed)	05:17	119	11:01	48S	16:44	241
2024	Jan 11	(Thu)	06:20	119	12:04	49S	17:50	242
2024	Jan 12	(Fri)	07:20	116	13:07	52S	18:56	246
2024	Jan 13	(Sat)	08:16	112	14:07	57S	20:01	251
2024	Jan 14	(Sun)	09:05	106	15:02	63S	21:02	257
2024	Jan 15	(Mon)	09:51	99	15:54	69S	22:00	264
2024	Jan 16	(Tue)	10:33	92	16:42	77S	22:55	272
2024	Jan 17	(Wed)	11:14	85	17:30	84S	23:50	279
2024	Jan 18	(Thu)	11:55	78	18:18	90S		
2024	Jan 19	(Fri)	12:38	72	19:08	86N	00:45	285
2024	Jan 20	(Sat)	13:23	67	19:59	81N	01:41	291
2024	Jan 21	(Sun)	14:12	64	20:53	78N	02:38	295
2024	Jan 22	(Mon)	15:04	61	21:48	76N	03:36	298
2024	Jan 23	(Tue)	15:59	61	22:43	76N	04:33	299
2024	Jan 24	(Wed)	16:54	62	23:37	78N	05:27	299
2024	Jan 25	(Thu)	17:49	65			06:17	297
2024	Jan 26	(Fri)	18:41	69	00:27	81N	07:03	293
2024	Jan 27	(Sat)	19:31	73	01:14	85N	07:44	289
2024	Jan 28	(Sun)	20:18	79	01:58	89N	08:22	284
2024	Jan 29	(Mon)	21:03	84	02:39	87S	08:57	279
2024	Jan 30	(Tue)	21:48	90	03:18	81S	09:31	273
2024	Jan 31	(Wed)	22:33	96	03:57	75S	10:04	267
2024	Feb 01	(Thu)	23:19	102	04:37	69S	10:37	261
2024	Feb 02	(Fri)			05:17	64S	11:13	255
2024	Feb 03	(Sat)	00:08	107	06:01	58S	11:52	250
2024	Feb 04	(Sun)	01:00	112	06:49	54S	12:37	246

2024 Feb 05 (Mon)	01:57 116	07:43 50S	13:27 243
2024 Feb 06 (Tue)	02:57 119	08:41 48S	14:24 241
2024 Feb 07 (Wed)	03:59 119	09:43 48S	15:26 241
2024 Feb 08 (Thu)	05:01 118	10:46 50S	16:33 244
2024 Feb 09 (Fri)	05:59 114	11:48 54S	17:39 248
2024 Feb 10 (Sat)	06:52 109	12:46 59S	18:43 254
2024 Feb 11 (Sun)	07:41 102	13:41 66S	19:45 261
2024 Feb 12 (Mon)	08:26 95	14:33 74S	20:43 269
2024 Feb 13 (Tue)	09:09 88	15:23 81S	21:41 276
2024 Feb 14 (Wed)	09:51 80	16:12 88S	22:37 283
2024 Feb 15 (Thu)	10:34 74	17:03 87N	23:35 289
2024 Feb 16 (Fri)	11:20 68	17:55 82N	
2024 Feb 17 (Sat)	12:09 64	18:49 78N	00:33 294
2024 Feb 18 (Sun)	13:00 62	19:44 76N	01:31 297
2024 Feb 19 (Mon)	13:54 61	20:39 76N	02:28 299
2024 Feb 20 (Tue)	14:49 61	21:33 77N	03:23 299
2024 Feb 21 (Wed)	15:44 64	22:24 79N	04:15 298
2024 Feb 22 (Thu)	16:36 67	23:11 83N	05:01 295
2024 Feb 23 (Fri)	17:27 72	23:56 88N	05:44 291
2024 Feb 24 (Sat)	18:14 77		06:22 286
2024 Feb 25 (Sun)	19:00 82	00:38 88S	06:58 280
2024 Feb 26 (Mon)	19:45 88	01:17 83S	07:31 275
2024 Feb 27 (Tue)	20:30 94	01:56 77S	08:04 269
2024 Feb 28 (Wed)	21:15 100	02:35 71S	08:38 263
2024 Feb 29 (Thu)	22:03 106	03:15 65S	09:12 257
2024 Mar 01 (Fri)	22:53 111	03:58 60S	09:50 252
2024 Mar 02 (Sat)	23:47 115	04:43 55S	10:31 247
2024 Mar 03 (Sun)		05:33 51S	11:18 244
2024 Mar 04 (Mon)	00:44 118	06:27 49S	12:10 241
2024 Mar 05 (Tue)	01:43 119	07:26 48S	13:08 241
2024 Mar 06 (Wed)	02:43 119	08:27 49S	14:11 242
2024 Mar 07 (Thu)	03:41 117	09:28 51S	15:16 245
2024 Mar 08 (Fri)	04:36 112	10:27 56S	16:20 251
2024 Mar 09 (Sat)	05:26 106	11:23 62S	17:23 257
2024 Mar 10 (Sun)	06:13 99	12:17 70S	18:24 265
2024 Mar 11 (Mon)	06:58 91	13:08 77S	19:23 272
2024 Mar 12 (Tue)	07:41 84	14:00 85S	20:22 280
2024 Mar 13 (Wed)	08:26 77	14:51 90N	21:21 287
2024 Mar 14 (Thu)	09:12 70	15:45 84N	22:21 292
2024 Mar 15 (Fri)	10:01 66	16:40 80N	23:22 296
2024 Mar 16 (Sat)	10:53 62	17:37 77N	
2024 Mar 17 (Sun)	11:48 61	18:33 76N	00:21 299
2024 Mar 18 (Mon)	12:44 61	19:28 76N	01:18 299
2024 Mar 19 (Tue)	13:39 63	20:20 78N	02:11 298
2024 Mar 20 (Wed)	14:32 66	21:09 82N	03:00 296
2024 Mar 21 (Thu)	15:23 70	21:54 86N	03:43 292
2024 Mar 22 (Fri)	16:12 75	22:37 90S	04:23 288
2024 Mar 23 (Sat)	16:58 80	23:17 85S	04:59 282
2024 Mar 24 (Sun)	17:43 86	23:56 79S	05:33 277
2024 Mar 25 (Mon)	18:28 92		06:06 271
2024 Mar 26 (Tue)	19:13 98	00:35 73S	06:39 265
2024 Mar 27 (Wed)	20:00 104	01:15 67S	07:13 259
2024 Mar 28 (Thu)	20:49 109	01:56 62S	07:50 253
2024 Mar 29 (Fri)	21:42 114	02:41 57S	08:30 249
2024 Mar 30 (Sat)	22:37 117	03:29 53S	09:14 245
2024 Mar 31 (Sun)	23:35 119	04:21 49S	10:04 242
2024 Apr 01 (Mon)		05:17 48S	10:59 241
2024 Apr 02 (Tue)	00:33 119	06:16 48S	11:59 241
2024 Apr 03 (Wed)	01:30 118	07:15 50S	13:01 244
2024 Apr 04 (Thu)	02:24 114	08:13 54S	14:03 248
2024 Apr 05 (Fri)	03:15 109	09:08 59S	15:04 254
2024 Apr 06 (Sat)	04:02 103	10:01 66S	16:04 261
2024 Apr 07 (Sun)	04:46 96	10:53 73S	17:03 268
2024 Apr 08 (Mon)	05:30 88	11:44 81S	18:02 276
2024 Apr 09 (Tue)	06:14 80	12:35 88S	19:01 283
2024 Apr 10 (Wed)	06:59 74	13:29 87N	20:02 290
2024 Apr 11 (Thu)	07:48 68	14:25 82N	21:05 295

2024 Apr 12 (Fri)	08:41 64	15:23 78N	22:07 298
2024 Apr 13 (Sat)	09:36 61	16:22 76N	23:07 299
2024 Apr 14 (Sun)	10:34 61	17:19 76N	
2024 Apr 15 (Mon)	11:31 62	18:14 77N	00:04 299
2024 Apr 16 (Tue)	12:26 64	19:05 80N	00:55 297
2024 Apr 17 (Wed)	13:18 68	19:51 84N	01:41 294
2024 Apr 18 (Thu)	14:08 73	20:35 89N	02:22 289
2024 Apr 19 (Fri)	14:55 78	21:16 87S	02:59 284
2024 Apr 20 (Sat)	15:40 84	21:55 81S	03:34 279
2024 Apr 21 (Sun)	16:25 90	22:34 75S	04:07 273
2024 Apr 22 (Mon)	17:10 96	23:13 69S	04:40 267
2024 Apr 23 (Tue)	17:56 102	23:55 63S	05:14 261
2024 Apr 24 (Wed)	18:45 108		05:50 255
2024 Apr 25 (Thu)	19:37 112	00:38 58S	06:29 250
2024 Apr 26 (Fri)	20:32 116	01:26 54S	07:13 246
2024 Apr 27 (Sat)	21:30 119	02:17 50S	08:01 242
2024 Apr 28 (Sun)	22:28 119	03:13 48S	08:55 241
2024 Apr 29 (Mon)	23:25 118	04:10 48S	09:53 241
2024 Apr 30 (Tue)		05:08 49S	10:53 243
2024 May 01 (Wed)	00:19 116	06:06 52S	11:54 246
2024 May 02 (Thu)	01:09 111	07:00 57S	12:54 251
2024 May 03 (Fri)	01:56 105	07:52 63S	13:52 258
2024 May 04 (Sat)	02:39 99	08:42 70S	14:49 265
2024 May 05 (Sun)	03:21 91	09:32 77S	15:46 272
2024 May 06 (Mon)	04:04 84	10:22 84S	16:43 280
2024 May 07 (Tue)	04:48 77	11:13 90N	17:43 286
2024 May 08 (Wed)	05:35 71	12:08 84N	18:44 292
2024 May 09 (Thu)	06:26 66	13:05 79N	19:48 296
2024 May 10 (Fri)	07:21 62	14:05 77N	20:50 299
2024 May 11 (Sat)	08:19 61	15:05 76N	21:50 299
2024 May 12 (Sun)	09:18 61	16:02 77N	22:45 298
2024 May 13 (Mon)	10:15 63	16:56 79N	23:35 295
2024 May 14 (Tue)	11:10 67	17:45 83N	
2024 May 15 (Wed)	12:01 71	18:31 87N	00:18 291
2024 May 16 (Thu)	12:49 76	19:13 89S	00:57 286
2024 May 17 (Fri)	13:35 82	19:53 83S	01:33 281
2024 May 18 (Sat)	14:20 88	20:31 77S	02:07 275
2024 May 19 (Sun)	15:05 94	21:11 71S	02:40 269
2024 May 20 (Mon)	15:51 100	21:51 66S	03:13 263
2024 May 21 (Tue)	16:39 106	22:34 60S	03:48 257
2024 May 22 (Wed)	17:30 111	23:21 55S	04:27 252
2024 May 23 (Thu)	18:25 115		05:09 247
2024 May 24 (Fri)	19:22 118	00:11 51S	05:56 244
2024 May 25 (Sat)	20:22 119	01:06 49S	06:49 241
2024 May 26 (Sun)	21:20 119	02:04 48S	07:47 241
2024 May 27 (Mon)	22:16 117	03:03 49S	08:47 242
2024 May 28 (Tue)	23:07 113	04:01 51S	09:48 245
2024 May 29 (Wed)	23:54 107	04:56 56S	10:48 250
2024 May 30 (Thu)		05:49 61S	11:46 256
2024 May 31 (Fri)	00:37 101	06:38 68S	12:42 263
2024 Jun 01 (Sat)	01:19 94	07:26 75S	13:37 270
2024 Jun 02 (Sun)	02:00 87	08:14 82S	14:33 277
2024 Jun 03 (Mon)	02:42 80	09:04 89S	15:30 284
2024 Jun 04 (Tue)	03:26 73	09:56 87N	16:29 290
2024 Jun 05 (Wed)	04:14 68	10:51 81N	17:30 295
2024 Jun 06 (Thu)	05:07 64	11:49 78N	18:33 298
2024 Jun 07 (Fri)	06:03 61	12:49 76N	19:35 299
2024 Jun 08 (Sat)	07:02 61	13:48 76N	20:33 299
2024 Jun 09 (Sun)	08:01 62	14:44 78N	21:25 296
2024 Jun 10 (Mon)	08:58 65	15:36 81N	22:12 293
2024 Jun 11 (Tue)	09:52 69	16:24 86N	22:53 288
2024 Jun 12 (Wed)	10:42 74	17:08 91	23:30 283
2024 Jun 13 (Thu)	11:29 80	17:49 85S	
2024 Jun 14 (Fri)	12:14 86	18:28 79S	00:05 277
2024 Jun 15 (Sat)	12:59 92	19:07 74S	00:38 271
2024 Jun 16 (Sun)	13:44 98	19:46 68S	01:11 265
2024 Jun 17 (Mon)	14:31 103	20:28 62S	01:46 259

2024 Jun 18 (Tue)	15:21 109	21:13 57S	02:22 254
2024 Jun 19 (Wed)	16:14 113	22:02 53S	03:03 249
2024 Jun 20 (Thu)	17:11 117	22:56 50S	03:48 245
2024 Jun 21 (Fri)	18:10 119	23:53 48S	04:39 242
2024 Jun 22 (Sat)	19:10 119		05:36 241
2024 Jun 23 (Sun)	20:08 117	00:53 48S	06:37 241
2024 Jun 24 (Mon)	21:02 114	01:53 50S	07:40 244
2024 Jun 25 (Tue)	21:52 109	02:51 54S	08:42 248
2024 Jun 26 (Wed)	22:37 103	03:45 60S	09:41 254
2024 Jun 27 (Thu)	23:19 96	04:36 66S	10:38 261
2024 Jun 28 (Fri)	23:59 89	05:24 73S	11:34 268
2024 Jun 29 (Sat)		06:12 80S	12:28 275
2024 Jun 30 (Sun)	00:40 82	07:00 87S	13:24 282
2024 Jul 01 (Mon)	01:23 75	07:50 88N	14:21 288
2024 Jul 02 (Tue)	02:08 69	08:43 83N	15:20 293
2024 Jul 03 (Wed)	02:58 65	09:38 79N	16:21 297
2024 Jul 04 (Thu)	03:52 62	10:37 76N	17:22 299
2024 Jul 05 (Fri)	04:50 61	11:36 76N	18:21 299
2024 Jul 06 (Sat)	05:49 62	12:33 77N	19:15 297
2024 Jul 07 (Sun)	06:47 64	13:27 80N	20:04 294
2024 Jul 08 (Mon)	07:42 68	14:16 84N	20:48 290
2024 Jul 09 (Tue)	08:33 72	15:02 89N	21:27 285
2024 Jul 10 (Wed)	09:22 78	15:44 87S	22:03 279
2024 Jul 11 (Thu)	10:08 84	16:24 82S	22:37 273
2024 Jul 12 (Fri)	10:53 90	17:03 76S	23:10 267
2024 Jul 13 (Sat)	11:38 96	17:42 70S	23:43 262
2024 Jul 14 (Sun)	12:23 101	18:22 64S	
2024 Jul 15 (Mon)	13:11 107	19:05 59S	00:18 256
2024 Jul 16 (Tue)	14:02 112	19:52 54S	00:56 251
2024 Jul 17 (Wed)	14:57 116	20:43 51S	01:39 246
2024 Jul 18 (Thu)	15:55 118	21:39 48S	02:27 243
2024 Jul 19 (Fri)	16:55 119	22:38 48S	03:21 241
2024 Jul 20 (Sat)	17:55 118	23:39 49S	04:21 241
2024 Jul 21 (Sun)	18:52 116		05:24 243
2024 Jul 22 (Mon)	19:44 111	00:39 53S	06:28 246
2024 Jul 23 (Tue)	20:32 105	01:36 57S	07:30 252
2024 Jul 24 (Wed)	21:16 98	02:29 64S	08:30 258
2024 Jul 25 (Thu)	21:58 91	03:20 71S	09:27 266
2024 Jul 26 (Fri)	22:40 84	04:09 78S	10:23 273
2024 Jul 27 (Sat)	23:22 77	04:58 85S	11:19 280
2024 Jul 28 (Sun)		05:47 90N	12:16 287
2024 Jul 29 (Mon)	00:07 71	06:39 84N	13:14 292
2024 Jul 30 (Tue)	00:55 66	07:33 80N	14:14 296
2024 Jul 31 (Wed)	01:47 62	08:30 77N	15:15 299
2024 Aug 01 (Thu)	02:42 61	09:28 76N	16:13 299
2024 Aug 02 (Fri)	03:40 61	10:25 76N	17:09 298
2024 Aug 03 (Sat)	04:38 63	11:19 79N	17:59 296
2024 Aug 04 (Sun)	05:33 66	12:10 82N	18:44 292
2024 Aug 05 (Mon)	06:26 71	12:57 87N	19:24 287
2024 Aug 06 (Tue)	07:16 76	13:40 89S	20:01 281
2024 Aug 07 (Wed)	08:03 82	14:21 84S	20:36 275
2024 Aug 08 (Thu)	08:48 87	15:00 78S	21:09 270
2024 Aug 09 (Fri)	09:33 93	15:39 72S	21:42 264
2024 Aug 10 (Sat)	10:18 99	16:18 66S	22:16 258
2024 Aug 11 (Sun)	11:04 105	16:59 61S	22:52 253
2024 Aug 12 (Mon)	11:53 110	17:44 56S	23:32 248
2024 Aug 13 (Tue)	12:45 114	18:32 52S	
2024 Aug 14 (Wed)	13:41 118	19:25 49S	00:17 244
2024 Aug 15 (Thu)	14:39 119	20:22 48S	01:07 241
2024 Aug 16 (Fri)	15:39 119	21:21 48S	02:04 240
2024 Aug 17 (Sat)	16:37 117	22:22 51S	03:05 241
2024 Aug 18 (Sun)	17:31 113	23:20 55S	04:09 244
2024 Aug 19 (Mon)	18:22 108		05:12 249
2024 Aug 20 (Tue)	19:08 101	00:16 61S	06:14 255
2024 Aug 21 (Wed)	19:52 94	01:10 67S	07:14 262
2024 Aug 22 (Thu)	20:35 86	02:01 75S	08:13 270
2024 Aug 23 (Fri)	21:18 79	02:51 82S	09:10 278

2024 Aug 24 (Sat)	22:03	72	03:42	89S	10:08	285
2024 Aug 25 (Sun)	22:51	67	04:34	86N	11:08	291
2024 Aug 26 (Mon)	23:43	63	05:28	81N	12:08	295
2024 Aug 27 (Tue)			06:25	77N	13:09	298
2024 Aug 28 (Wed)	00:38	61	07:23	76N	14:09	299
2024 Aug 29 (Thu)	01:35	61	08:20	76N	15:05	299
2024 Aug 30 (Fri)	02:32	62	09:15	78N	15:56	297
2024 Aug 31 (Sat)	03:28	65	10:07	81N	16:42	293
2024 Sep 01 (Sun)	04:21	69	10:54	85N	17:24	288
2024 Sep 02 (Mon)	05:11	74	11:38	90N	18:01	283
2024 Sep 03 (Tue)	05:59	80	12:19	86S	18:36	277
2024 Sep 04 (Wed)	06:45	85	12:59	80S	19:09	272
2024 Sep 05 (Thu)	07:29	91	13:37	74S	19:42	266
2024 Sep 06 (Fri)	08:14	97	14:16	68S	20:16	260
2024 Sep 07 (Sat)	09:00	103	14:57	63S	20:51	254
2024 Sep 08 (Sun)	09:47	108	15:39	58S	21:29	249
2024 Sep 09 (Mon)	10:38	113	16:25	53S	22:11	245
2024 Sep 10 (Tue)	11:31	117	17:15	50S	22:58	242
2024 Sep 11 (Wed)	12:27	119	18:09	48S	23:51	241
2024 Sep 12 (Thu)	13:24	120	19:06	48S		
2024 Sep 13 (Fri)	14:22	119	20:05	49S	00:48	241
2024 Sep 14 (Sat)	15:16	116	21:03	52S	01:50	243
2024 Sep 15 (Sun)	16:08	111	22:00	57S	02:52	246
2024 Sep 16 (Mon)	16:56	105	22:54	64S	03:54	252
2024 Sep 17 (Tue)	17:41	98	23:46	71S	04:55	259
2024 Sep 18 (Wed)	18:25	90			05:54	266
2024 Sep 19 (Thu)	19:09	82	00:38	79S	06:54	274
2024 Sep 20 (Fri)	19:55	75	01:29	86S	07:53	281
2024 Sep 21 (Sat)	20:43	69	02:23	88N	08:54	288
2024 Sep 22 (Sun)	21:35	64	03:18	83N	09:57	294
2024 Sep 23 (Mon)	22:31	61	04:16	78N	11:00	298
2024 Sep 24 (Tue)	23:29	60	05:16	76N	12:02	299
2024 Sep 25 (Wed)			06:15	76N	13:00	299
2024 Sep 26 (Thu)	00:27	61	07:11	77N	13:54	298
2024 Sep 27 (Fri)	01:24	64	08:04	80N	14:41	294
2024 Sep 28 (Sat)	02:18	68	08:52	84N	15:24	290
2024 Sep 29 (Sun)	03:09	72	09:37	89N	16:02	285
2024 Sep 30 (Mon)	03:57	78	10:19	87S	16:38	279
2024 Oct 01 (Tue)	04:42	83	10:58	82S	17:11	274
2024 Oct 02 (Wed)	05:27	89	11:37	76S	17:44	268
2024 Oct 03 (Thu)	06:12	95	12:16	70S	18:17	262
2024 Oct 04 (Fri)	06:57	101	12:56	64S	18:52	256
2024 Oct 05 (Sat)	07:44	107	13:38	59S	19:29	251
2024 Oct 06 (Sun)	08:34	112	14:22	55S	20:09	246
2024 Oct 07 (Mon)	09:26	115	15:11	51S	20:54	243
2024 Oct 08 (Tue)	10:20	118	16:03	49S	21:44	241
2024 Oct 09 (Wed)	11:16	120	16:57	48S	22:39	240
2024 Oct 10 (Thu)	12:12	119	17:54	48S	23:37	242
2024 Oct 11 (Fri)	13:06	117	18:50	51S		
2024 Oct 12 (Sat)	13:57	113	19:46	55S	00:37	244
2024 Oct 13 (Sun)	14:45	108	20:39	60S	01:37	249
2024 Oct 14 (Mon)	15:30	101	21:31	67S	02:36	255
2024 Oct 15 (Tue)	16:14	94	22:22	75S	03:35	262
2024 Oct 16 (Wed)	16:57	86	23:13	82S	04:33	270
2024 Oct 17 (Thu)	17:42	79			05:33	277
2024 Oct 18 (Fri)	18:30	72	00:06	90S	06:34	285
2024 Oct 19 (Sat)	19:21	66	01:01	85N	07:37	291
2024 Oct 20 (Sun)	20:17	63	02:00	80N	08:42	296
2024 Oct 21 (Mon)	21:16	61	03:01	77N	09:47	299
2024 Oct 22 (Tue)	22:17	61	04:03	76N	10:49	300
2024 Oct 23 (Wed)	23:16	63	05:02	76N	11:47	298
2024 Oct 24 (Thu)			05:58	79N	12:37	296
2024 Oct 25 (Fri)	00:12	66	06:49	82N	13:22	292
2024 Oct 26 (Sat)	01:05	71	07:35	87N	14:02	287
2024 Oct 27 (Sun)	01:54	76	08:18	89S	14:39	281
2024 Oct 28 (Mon)	02:40	82	08:58	84S	15:13	275
2024 Oct 29 (Tue)	03:25	87	09:37	78S	15:46	270

2024	Oct	30	(Wed)	04:09	94	10:15	72S	16:18	264
2024	Oct	31	(Thu)	04:55	99	10:55	66S	16:53	258
2024	Nov	01	(Fri)	05:41	105	11:36	61S	17:29	253
2024	Nov	02	(Sat)	06:30	110	12:20	56S	18:09	248
2024	Nov	03	(Sun)	07:21	114	13:08	52S	18:53	244
2024	Nov	04	(Mon)	08:16	117	13:59	49S	19:41	242
2024	Nov	05	(Tue)	09:11	119	14:53	48S	20:34	240
2024	Nov	06	(Wed)	10:07	119	15:49	48S	21:31	241
2024	Nov	07	(Thu)	11:01	118	16:44	50S	22:29	243
2024	Nov	08	(Fri)	11:52	115	17:39	53S	23:28	247
2024	Nov	09	(Sat)	12:39	110	18:31	58S		
2024	Nov	10	(Sun)	13:23	104	19:21	64S	00:25	253
2024	Nov	11	(Mon)	14:06	97	20:10	71S	01:22	259
2024	Nov	12	(Tue)	14:48	90	20:59	78S	02:18	266
2024	Nov	13	(Wed)	15:30	83	21:50	86S	03:14	274
2024	Nov	14	(Thu)	16:15	76	22:43	89N	04:13	281
2024	Nov	15	(Fri)	17:05	69	23:40	83N	05:14	288
2024	Nov	16	(Sat)	17:59	64			06:19	294
2024	Nov	17	(Sun)	18:58	61	00:41	78N	07:25	297
2024	Nov	18	(Mon)	20:00	61	01:44	76N	08:31	299
2024	Nov	19	(Tue)	21:02	62	02:46	76N	09:32	299
2024	Nov	20	(Wed)	22:01	65	03:46	78N	10:28	297
2024	Nov	21	(Thu)	22:56	69	04:40	81N	11:16	293
2024	Nov	22	(Fri)	23:48	74	05:29	85N	11:59	288
2024	Nov	23	(Sat)			06:14	90N	12:37	283
2024	Nov	24	(Sun)	00:36	80	06:56	86S	13:12	277
2024	Nov	25	(Mon)	01:21	85	07:35	80S	13:46	272
2024	Nov	26	(Tue)	02:06	91	08:14	74S	14:19	266
2024	Nov	27	(Wed)	02:51	97	08:53	68S	14:52	260
2024	Nov	28	(Thu)	03:36	103	09:33	63S	15:28	254
2024	Nov	29	(Fri)	04:25	108	10:17	58S	16:06	249
2024	Nov	30	(Sat)	05:15	113	11:03	53S	16:49	245
2024	Dec	01	(Sun)	06:09	116	11:54	50S	17:37	242
2024	Dec	02	(Mon)	07:05	119	12:48	48S	18:29	241
2024	Dec	03	(Tue)	08:02	119	13:44	48S	19:26	241
2024	Dec	04	(Wed)	08:57	118	14:40	49S	20:24	243
2024	Dec	05	(Thu)	09:49	116	15:35	52S	21:23	246
2024	Dec	06	(Fri)	10:37	111	16:28	57S	22:20	251
2024	Dec	07	(Sat)	11:22	106	17:17	63S	23:16	257
2024	Dec	08	(Sun)	12:04	100	18:05	69S		
2024	Dec	09	(Mon)	12:44	93	18:53	76S	00:11	264
2024	Dec	10	(Tue)	13:25	85	19:41	83S	01:05	271
2024	Dec	11	(Wed)	14:07	78	20:31	90S	02:00	278
2024	Dec	12	(Thu)	14:53	72	21:24	85N	02:58	285
2024	Dec	13	(Fri)	15:43	67	22:22	80N	03:59	291
2024	Dec	14	(Sat)	16:39	63	23:23	77N	05:03	296
2024	Dec	15	(Sun)	17:40	61			06:09	299
2024	Dec	16	(Mon)	18:42	61	00:26	76N	07:13	299
2024	Dec	17	(Tue)	19:44	63	01:28	77N	08:12	298
2024	Dec	18	(Wed)	20:43	67	02:26	79N	09:05	295
2024	Dec	19	(Thu)	21:37	72	03:19	83N	09:52	291
2024	Dec	20	(Fri)	22:27	77	04:06	88N	10:33	285
2024	Dec	21	(Sat)	23:15	83	04:50	88S	11:10	280
2024	Dec	22	(Sun)			05:31	82S	11:44	274
2024	Dec	23	(Mon)	00:00	89	06:10	76S	12:17	268
2024	Dec	24	(Tue)	00:45	95	06:49	70S	12:50	262
2024	Dec	25	(Wed)	01:30	101	07:29	64S	13:25	256
2024	Dec	26	(Thu)	02:17	107	08:11	59S	14:02	251
2024	Dec	27	(Fri)	03:07	111	08:56	55S	14:43	247
2024	Dec	28	(Sat)	03:59	115	09:45	51S	15:29	243
2024	Dec	29	(Sun)	04:55	118	10:38	49S	16:20	241
2024	Dec	30	(Mon)	05:52	119	11:34	48S	17:16	241
2024	Dec	31	(Tue)	06:49	119	12:32	49S	18:15	242