

Sun

VTMP

Location: E 99°49'00.0", N11°47'00.0", 10m
(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)	05:51	06:40 113		12:24 56S	18:07 247		18:57
2024 Jan 02 (Tue)	05:52	06:41 113		12:24 56S	18:08 247		18:57
2024 Jan 03 (Wed)	05:52	06:41 113		12:25 56S	18:09 247		18:58
2024 Jan 04 (Thu)	05:52	06:42 113		12:25 56S	18:09 247		18:58
2024 Jan 05 (Fri)	05:53	06:42 113		12:26 56S	18:10 247		18:59
2024 Jan 06 (Sat)	05:53	06:42 113		12:26 56S	18:10 247		18:59
2024 Jan 07 (Sun)	05:54	06:43 113		12:27 56S	18:11 247		19:00
2024 Jan 08 (Mon)	05:54	06:43 113		12:27 57S	18:11 247		19:00
2024 Jan 09 (Tue)	05:54	06:43 113		12:28 57S	18:12 248		19:01
2024 Jan 10 (Wed)	05:55	06:44 112		12:28 57S	18:12 248		19:01
2024 Jan 11 (Thu)	05:55	06:44 112		12:28 57S	18:13 248		19:02
2024 Jan 12 (Fri)	05:55	06:44 112		12:29 57S	18:13 248		19:02
2024 Jan 13 (Sat)	05:56	06:44 112		12:29 57S	18:14 248		19:03
2024 Jan 14 (Sun)	05:56	06:45 112		12:30 58S	18:15 248		19:03
2024 Jan 15 (Mon)	05:56	06:45 112		12:30 58S	18:15 249		19:04
2024 Jan 16 (Tue)	05:56	06:45 111		12:30 58S	18:16 249		19:04
2024 Jan 17 (Wed)	05:57	06:45 111		12:31 58S	18:16 249		19:05
2024 Jan 18 (Thu)	05:57	06:45 111		12:31 58S	18:17 249		19:05
2024 Jan 19 (Fri)	05:57	06:45 111		12:31 58S	18:17 249		19:06
2024 Jan 20 (Sat)	05:57	06:45 111		12:32 59S	18:18 250		19:06
2024 Jan 21 (Sun)	05:57	06:46 110		12:32 59S	18:18 250		19:06
2024 Jan 22 (Mon)	05:57	06:46 110		12:32 59S	18:19 250		19:07
2024 Jan 23 (Tue)	05:58	06:46 110		12:32 59S	18:19 250		19:07
2024 Jan 24 (Wed)	05:58	06:46 110		12:33 60S	18:20 250		19:08
2024 Jan 25 (Thu)	05:58	06:46 109		12:33 60S	18:20 251		19:08
2024 Jan 26 (Fri)	05:58	06:46 109		12:33 60S	18:20 251		19:08
2024 Jan 27 (Sat)	05:58	06:46 109		12:33 60S	18:21 251		19:09
2024 Jan 28 (Sun)	05:58	06:46 109		12:34 61S	18:21 252		19:09
2024 Jan 29 (Mon)	05:58	06:46 108		12:34 61S	18:22 252		19:10
2024 Jan 30 (Tue)	05:58	06:46 108		12:34 61S	18:22 252		19:10
2024 Jan 31 (Wed)	05:58	06:46 108		12:34 61S	18:23 252		19:10
2024 Feb 01 (Thu)	05:58	06:45 108		12:34 62S	18:23 253		19:11
2024 Feb 02 (Fri)	05:58	06:45 107		12:34 62S	18:23 253		19:11
2024 Feb 03 (Sat)	05:58	06:45 107		12:34 62S	18:24 253		19:11
2024 Feb 04 (Sun)	05:58	06:45 107		12:35 63S	18:24 254		19:11
2024 Feb 05 (Mon)	05:58	06:45 106		12:35 63S	18:24 254		19:12
2024 Feb 06 (Tue)	05:58	06:45 106		12:35 63S	18:25 254		19:12
2024 Feb 07 (Wed)	05:57	06:45 106		12:35 63S	18:25 254		19:12
2024 Feb 08 (Thu)	05:57	06:44 105		12:35 64S	18:26 255		19:13
2024 Feb 09 (Fri)	05:57	06:44 105		12:35 64S	18:26 255		19:13
2024 Feb 10 (Sat)	05:57	06:44 105		12:35 64S	18:26 255		19:13
2024 Feb 11 (Sun)	05:57	06:44 104		12:35 65S	18:26 256		19:13
2024 Feb 12 (Mon)	05:56	06:43 104		12:35 65S	18:27 256		19:14
2024 Feb 13 (Tue)	05:56	06:43 104		12:35 65S	18:27 256		19:14
2024 Feb 14 (Wed)	05:56	06:43 103		12:35 66S	18:27 257		19:14
2024 Feb 15 (Thu)	05:56	06:42 103		12:35 66S	18:28 257		19:14
2024 Feb 16 (Fri)	05:55	06:42 103		12:35 66S	18:28 257		19:14
2024 Feb 17 (Sat)	05:55	06:42 102		12:35 67S	18:28 258		19:14
2024 Feb 18 (Sun)	05:55	06:41 102		12:35 67S	18:28 258		19:15
2024 Feb 19 (Mon)	05:55	06:41 102		12:35 67S	18:28 259		19:15
2024 Feb 20 (Tue)	05:54	06:41 101		12:35 68S	18:29 259		19:15
2024 Feb 21 (Wed)	05:54	06:40 101		12:34 68S	18:29 259		19:15
2024 Feb 22 (Thu)	05:53	06:40 101		12:34 69S	18:29 260		19:15
2024 Feb 23 (Fri)	05:53	06:39 100		12:34 69S	18:29 260		19:15
2024 Feb 24 (Sat)	05:53	06:39 100		12:34 69S	18:29 260		19:16

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

2024	May	02	(Thu)	05:13	06:01	74	12:18	87N	18:35	286	19:22
2024	May	03	(Fri)	05:13	06:01	74	12:18	87N	18:35	286	19:23
2024	May	04	(Sat)	05:12	06:00	73	12:17	86N	18:35	287	19:23
2024	May	05	(Sun)	05:12	06:00	73	12:17	86N	18:35	287	19:23
2024	May	06	(Mon)	05:11	06:00	73	12:17	86N	18:35	287	19:23
2024	May	07	(Tue)	05:11	05:59	73	12:17	86N	18:35	288	19:24
2024	May	08	(Wed)	05:11	05:59	72	12:17	85N	18:36	288	19:24
2024	May	09	(Thu)	05:10	05:59	72	12:17	85N	18:36	288	19:24
2024	May	10	(Fri)	05:10	05:58	72	12:17	85N	18:36	288	19:25
2024	May	11	(Sat)	05:10	05:58	71	12:17	84N	18:36	289	19:25
2024	May	12	(Sun)	05:09	05:58	71	12:17	84N	18:37	289	19:25
2024	May	13	(Mon)	05:09	05:58	71	12:17	84N	18:37	289	19:26
2024	May	14	(Tue)	05:09	05:57	71	12:17	84N	18:37	289	19:26
2024	May	15	(Wed)	05:08	05:57	70	12:17	84N	18:37	290	19:26
2024	May	16	(Thu)	05:08	05:57	70	12:17	83N	18:37	290	19:26
2024	May	17	(Fri)	05:08	05:57	70	12:17	83N	18:38	290	19:27
2024	May	18	(Sat)	05:07	05:57	70	12:17	83N	18:38	290	19:27
2024	May	19	(Sun)	05:07	05:56	70	12:17	83N	18:38	291	19:27
2024	May	20	(Mon)	05:07	05:56	69	12:17	82N	18:38	291	19:28
2024	May	21	(Tue)	05:07	05:56	69	12:17	82N	18:39	291	19:28
2024	May	22	(Wed)	05:07	05:56	69	12:17	82N	18:39	291	19:28
2024	May	23	(Thu)	05:06	05:56	69	12:18	82N	18:39	291	19:29
2024	May	24	(Fri)	05:06	05:56	69	12:18	82N	18:40	292	19:29
2024	May	25	(Sat)	05:06	05:56	68	12:18	81N	18:40	292	19:30
2024	May	26	(Sun)	05:06	05:56	68	12:18	81N	18:40	292	19:30
2024	May	27	(Mon)	05:06	05:56	68	12:18	81N	18:40	292	19:30
2024	May	28	(Tue)	05:06	05:56	68	12:18	81N	18:41	292	19:31
2024	May	29	(Wed)	05:06	05:55	68	12:18	81N	18:41	292	19:31
2024	May	30	(Thu)	05:06	05:55	68	12:18	81N	18:41	293	19:31
2024	May	31	(Fri)	05:05	05:55	67	12:18	81N	18:42	293	19:32
2024	Jun	01	(Sat)	05:05	05:55	67	12:19	80N	18:42	293	19:32
2024	Jun	02	(Sun)	05:05	05:56	67	12:19	80N	18:42	293	19:32
2024	Jun	03	(Mon)	05:05	05:56	67	12:19	80N	18:42	293	19:33
2024	Jun	04	(Tue)	05:05	05:56	67	12:19	80N	18:43	293	19:33
2024	Jun	05	(Wed)	05:05	05:56	67	12:19	80N	18:43	293	19:33
2024	Jun	06	(Thu)	05:05	05:56	67	12:19	80N	18:43	293	19:34
2024	Jun	07	(Fri)	05:05	05:56	67	12:20	80N	18:44	294	19:34
2024	Jun	08	(Sat)	05:06	05:56	66	12:20	80N	18:44	294	19:34
2024	Jun	09	(Sun)	05:06	05:56	66	12:20	80N	18:44	294	19:35
2024	Jun	10	(Mon)	05:06	05:56	66	12:20	79N	18:44	294	19:35
2024	Jun	11	(Tue)	05:06	05:56	66	12:20	79N	18:45	294	19:35
2024	Jun	12	(Wed)	05:06	05:56	66	12:21	79N	18:45	294	19:35
2024	Jun	13	(Thu)	05:06	05:57	66	12:21	79N	18:45	294	19:36
2024	Jun	14	(Fri)	05:06	05:57	66	12:21	79N	18:45	294	19:36
2024	Jun	15	(Sat)	05:06	05:57	66	12:21	79N	18:46	294	19:36
2024	Jun	16	(Sun)	05:06	05:57	66	12:22	79N	18:46	294	19:37
2024	Jun	17	(Mon)	05:07	05:57	66	12:22	79N	18:46	294	19:37
2024	Jun	18	(Tue)	05:07	05:57	66	12:22	79N	18:46	294	19:37
2024	Jun	19	(Wed)	05:07	05:58	66	12:22	79N	18:47	294	19:37
2024	Jun	20	(Thu)	05:07	05:58	66	12:22	79N	18:47	294	19:38
2024	Jun	21	(Fri)	05:07	05:58	66	12:23	79N	18:47	294	19:38
2024	Jun	22	(Sat)	05:08	05:58	66	12:23	79N	18:47	294	19:38
2024	Jun	23	(Sun)	05:08	05:59	66	12:23	79N	18:48	294	19:38
2024	Jun	24	(Mon)	05:08	05:59	66	12:23	79N	18:48	294	19:38
2024	Jun	25	(Tue)	05:08	05:59	66	12:23	79N	18:48	294	19:39
2024	Jun	26	(Wed)	05:09	05:59	66	12:24	79N	18:48	294	19:39
2024	Jun	27	(Thu)	05:09	06:00	66	12:24	79N	18:48	294	19:39
2024	Jun	28	(Fri)	05:09	06:00	66	12:24	79N	18:48	294	19:39
2024	Jun	29	(Sat)	05:09	06:00	66	12:24	79N	18:49	294	19:39
2024	Jun	30	(Sun)	05:10	06:00	66	12:24	79N	18:49	294	19:39
2024	Jul	01	(Mon)	05:10	06:01	66	12:25	79N	18:49	294	19:39
2024	Jul	02	(Tue)	05:10	06:01	66	12:25	79N	18:49	294	19:39
2024	Jul	03	(Wed)	05:11	06:01	66	12:25	80N	18:49	294	19:39
2024	Jul	04	(Thu)	05:11	06:01	66	12:25	80N	18:49	294	19:39
2024	Jul	05	(Fri)	05:11	06:02	67	12:25	80N	18:49	293	19:40
2024	Jul	06	(Sat)	05:12	06:02	67	12:26	80N	18:49	293	19:40
2024	Jul	07	(Sun)	05:12	06:02	67	12:26	80N	18:49	293	19:40

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

2024	Sep 13	(Fri)	05:24	06:10	86	12:17	83S	18:23	274	19:09
2024	Sep 14	(Sat)	05:24	06:10	86	12:16	82S	18:22	273	19:08
2024	Sep 15	(Sun)	05:24	06:10	87	12:16	82S	18:21	273	19:07
2024	Sep 16	(Mon)	05:24	06:10	87	12:16	81S	18:21	273	19:06
2024	Sep 17	(Tue)	05:24	06:10	88	12:15	81S	18:20	272	19:06
2024	Sep 18	(Wed)	05:24	06:10	88	12:15	81S	18:19	272	19:05
2024	Sep 19	(Thu)	05:24	06:10	88	12:14	80S	18:19	271	19:04
2024	Sep 20	(Fri)	05:24	06:10	89	12:14	80S	18:18	271	19:04
2024	Sep 21	(Sat)	05:24	06:10	89	12:14	79S	18:17	271	19:03
2024	Sep 22	(Sun)	05:24	06:10	90	12:13	79S	18:17	270	19:02
2024	Sep 23	(Mon)	05:24	06:10	90	12:13	79S	18:16	270	19:02
2024	Sep 24	(Tue)	05:24	06:10	90	12:13	78S	18:15	269	19:01
2024	Sep 25	(Wed)	05:24	06:10	91	12:12	78S	18:15	269	19:00
2024	Sep 26	(Thu)	05:24	06:10	91	12:12	77S	18:14	269	19:00
2024	Sep 27	(Fri)	05:24	06:10	92	12:12	77S	18:13	268	18:59
2024	Sep 28	(Sat)	05:24	06:10	92	12:11	77S	18:13	268	18:58
2024	Sep 29	(Sun)	05:24	06:10	92	12:11	76S	18:12	267	18:58
2024	Sep 30	(Mon)	05:24	06:10	93	12:11	76S	18:11	267	18:57
2024	Oct 01	(Tue)	05:24	06:10	93	12:10	76S	18:11	267	18:56
2024	Oct 02	(Wed)	05:24	06:10	94	12:10	75S	18:10	266	18:56
2024	Oct 03	(Thu)	05:24	06:10	94	12:10	75S	18:09	266	18:55
2024	Oct 04	(Fri)	05:24	06:10	94	12:09	74S	18:09	265	18:55
2024	Oct 05	(Sat)	05:24	06:10	95	12:09	74S	18:08	265	18:54
2024	Oct 06	(Sun)	05:24	06:10	95	12:09	74S	18:08	265	18:53
2024	Oct 07	(Mon)	05:24	06:10	96	12:08	73S	18:07	264	18:53
2024	Oct 08	(Tue)	05:24	06:10	96	12:08	73S	18:06	264	18:52
2024	Oct 09	(Wed)	05:24	06:10	96	12:08	72S	18:06	263	18:52
2024	Oct 10	(Thu)	05:24	06:10	97	12:08	72S	18:05	263	18:51
2024	Oct 11	(Fri)	05:24	06:10	97	12:07	72S	18:05	263	18:51
2024	Oct 12	(Sat)	05:24	06:10	97	12:07	71S	18:04	262	18:50
2024	Oct 13	(Sun)	05:24	06:10	98	12:07	71S	18:04	262	18:49
2024	Oct 14	(Mon)	05:24	06:10	98	12:07	71S	18:03	262	18:49
2024	Oct 15	(Tue)	05:24	06:10	99	12:06	70S	18:02	261	18:48
2024	Oct 16	(Wed)	05:24	06:10	99	12:06	70S	18:02	261	18:48
2024	Oct 17	(Thu)	05:24	06:11	99	12:06	69S	18:01	260	18:48
2024	Oct 18	(Fri)	05:24	06:11	100	12:06	69S	18:01	260	18:47
2024	Oct 19	(Sat)	05:25	06:11	100	12:06	69S	18:00	260	18:47
2024	Oct 20	(Sun)	05:25	06:11	100	12:05	68S	18:00	259	18:46
2024	Oct 21	(Mon)	05:25	06:11	101	12:05	68S	17:59	259	18:46
2024	Oct 22	(Tue)	05:25	06:11	101	12:05	68S	17:59	259	18:45
2024	Oct 23	(Wed)	05:25	06:11	102	12:05	67S	17:59	258	18:45
2024	Oct 24	(Thu)	05:25	06:11	102	12:05	67S	17:58	258	18:45
2024	Oct 25	(Fri)	05:25	06:12	102	12:05	67S	17:58	258	18:44
2024	Oct 26	(Sat)	05:25	06:12	103	12:05	66S	17:57	257	18:44
2024	Oct 27	(Sun)	05:25	06:12	103	12:05	66S	17:57	257	18:44
2024	Oct 28	(Mon)	05:26	06:12	103	12:04	66S	17:57	257	18:43
2024	Oct 29	(Tue)	05:26	06:12	104	12:04	65S	17:56	256	18:43
2024	Oct 30	(Wed)	05:26	06:13	104	12:04	65S	17:56	256	18:43
2024	Oct 31	(Thu)	05:26	06:13	104	12:04	65S	17:56	256	18:43
2024	Nov 01	(Fri)	05:26	06:13	105	12:04	64S	17:55	255	18:42
2024	Nov 02	(Sat)	05:26	06:13	105	12:04	64S	17:55	255	18:42
2024	Nov 03	(Sun)	05:27	06:14	105	12:04	64S	17:55	255	18:42
2024	Nov 04	(Mon)	05:27	06:14	106	12:04	63S	17:54	254	18:42
2024	Nov 05	(Tue)	05:27	06:14	106	12:04	63S	17:54	254	18:41
2024	Nov 06	(Wed)	05:27	06:15	106	12:04	63S	17:54	254	18:41
2024	Nov 07	(Thu)	05:28	06:15	107	12:04	63S	17:54	253	18:41
2024	Nov 08	(Fri)	05:28	06:15	107	12:04	62S	17:54	253	18:41
2024	Nov 09	(Sat)	05:28	06:16	107	12:05	62S	17:53	253	18:41
2024	Nov 10	(Sun)	05:28	06:16	107	12:05	62S	17:53	252	18:41
2024	Nov 11	(Mon)	05:29	06:16	108	12:05	61S	17:53	252	18:41
2024	Nov 12	(Tue)	05:29	06:17	108	12:05	61S	17:53	252	18:41
2024	Nov 13	(Wed)	05:29	06:17	108	12:05	61S	17:53	252	18:41
2024	Nov 14	(Thu)	05:30	06:17	109	12:05	61S	17:53	251	18:41
2024	Nov 15	(Fri)	05:30	06:18	109	12:05	60S	17:53	251	18:41
2024	Nov 16	(Sat)	05:30	06:18	109	12:06	60S	17:53	251	18:41
2024	Nov 17	(Sun)	05:31	06:19	109	12:06	60S	17:53	251	18:41
2024	Nov 18	(Mon)	05:31	06:19	110	12:06	60S	17:53	250	18:41

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

Sun

VTMP

Location: E 99°49'00.0", N11°47'00.0", 10m
(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)	06:18	06:40	113	12:24	56S	18:07	247	18:30
2024	Jan	02	(Tue)	06:18	06:41	113	12:24	56S	18:08	247	18:31
2024	Jan	03	(Wed)	06:18	06:41	113	12:25	56S	18:09	247	18:31
2024	Jan	04	(Thu)	06:19	06:42	113	12:25	56S	18:09	247	18:32
2024	Jan	05	(Fri)	06:19	06:42	113	12:26	56S	18:10	247	18:32
2024	Jan	06	(Sat)	06:19	06:42	113	12:26	56S	18:10	247	18:33
2024	Jan	07	(Sun)	06:20	06:43	113	12:27	56S	18:11	247	18:34
2024	Jan	08	(Mon)	06:20	06:43	113	12:27	57S	18:11	247	18:34
2024	Jan	09	(Tue)	06:21	06:43	113	12:28	57S	18:12	248	18:35
2024	Jan	10	(Wed)	06:21	06:44	112	12:28	57S	18:12	248	18:35
2024	Jan	11	(Thu)	06:21	06:44	112	12:28	57S	18:13	248	18:36

2024	Jan	12	(Fri)	06:21	06:44	112	12:29	57S	18:13	248	18:36
2024	Jan	13	(Sat)	06:22	06:44	112	12:29	57S	18:14	248	18:37
2024	Jan	14	(Sun)	06:22	06:45	112	12:30	58S	18:15	248	18:37
2024	Jan	15	(Mon)	06:22	06:45	112	12:30	58S	18:15	249	18:38
2024	Jan	16	(Tue)	06:22	06:45	111	12:30	58S	18:16	249	18:38
2024	Jan	17	(Wed)	06:23	06:45	111	12:31	58S	18:16	249	18:39
2024	Jan	18	(Thu)	06:23	06:45	111	12:31	58S	18:17	249	18:39
2024	Jan	19	(Fri)	06:23	06:45	111	12:31	58S	18:17	249	18:40
2024	Jan	20	(Sat)	06:23	06:45	111	12:32	59S	18:18	250	18:40
2024	Jan	21	(Sun)	06:23	06:46	110	12:32	59S	18:18	250	18:41
2024	Jan	22	(Mon)	06:23	06:46	110	12:32	59S	18:19	250	18:41
2024	Jan	23	(Tue)	06:23	06:46	110	12:32	59S	18:19	250	18:41
2024	Jan	24	(Wed)	06:23	06:46	110	12:33	60S	18:20	250	18:42
2024	Jan	25	(Thu)	06:23	06:46	109	12:33	60S	18:20	251	18:42
2024	Jan	26	(Fri)	06:24	06:46	109	12:33	60S	18:20	251	18:43
2024	Jan	27	(Sat)	06:24	06:46	109	12:33	60S	18:21	251	18:43
2024	Jan	28	(Sun)	06:24	06:46	109	12:34	61S	18:21	252	18:44
2024	Jan	29	(Mon)	06:24	06:46	108	12:34	61S	18:22	252	18:44
2024	Jan	30	(Tue)	06:24	06:46	108	12:34	61S	18:22	252	18:44
2024	Jan	31	(Wed)	06:23	06:46	108	12:34	61S	18:23	252	18:45
2024	Feb	01	(Thu)	06:23	06:45	108	12:34	62S	18:23	253	18:45
2024	Feb	02	(Fri)	06:23	06:45	107	12:34	62S	18:23	253	18:45
2024	Feb	03	(Sat)	06:23	06:45	107	12:34	62S	18:24	253	18:46
2024	Feb	04	(Sun)	06:23	06:45	107	12:35	63S	18:24	254	18:46
2024	Feb	05	(Mon)	06:23	06:45	106	12:35	63S	18:24	254	18:46
2024	Feb	06	(Tue)	06:23	06:45	106	12:35	63S	18:25	254	18:47
2024	Feb	07	(Wed)	06:23	06:45	106	12:35	63S	18:25	254	18:47
2024	Feb	08	(Thu)	06:22	06:44	105	12:35	64S	18:26	255	18:47
2024	Feb	09	(Fri)	06:22	06:44	105	12:35	64S	18:26	255	18:48
2024	Feb	10	(Sat)	06:22	06:44	105	12:35	64S	18:26	255	18:48
2024	Feb	11	(Sun)	06:22	06:44	104	12:35	65S	18:26	256	18:48
2024	Feb	12	(Mon)	06:22	06:43	104	12:35	65S	18:27	256	18:48
2024	Feb	13	(Tue)	06:21	06:43	104	12:35	65S	18:27	256	18:49
2024	Feb	14	(Wed)	06:21	06:43	103	12:35	66S	18:27	257	18:49
2024	Feb	15	(Thu)	06:21	06:42	103	12:35	66S	18:28	257	18:49
2024	Feb	16	(Fri)	06:20	06:42	103	12:35	66S	18:28	257	18:49
2024	Feb	17	(Sat)	06:20	06:42	102	12:35	67S	18:28	258	18:50
2024	Feb	18	(Sun)	06:20	06:41	102	12:35	67S	18:28	258	18:50
2024	Feb	19	(Mon)	06:19	06:41	102	12:35	67S	18:28	259	18:50
2024	Feb	20	(Tue)	06:19	06:41	101	12:35	68S	18:29	259	18:50
2024	Feb	21	(Wed)	06:19	06:40	101	12:34	68S	18:29	259	18:50
2024	Feb	22	(Thu)	06:18	06:40	101	12:34	69S	18:29	260	18:50
2024	Feb	23	(Fri)	06:18	06:39	100	12:34	69S	18:29	260	18:51
2024	Feb	24	(Sat)	06:17	06:39	100	12:34	69S	18:29	260	18:51
2024	Feb	25	(Sun)	06:17	06:38	99	12:34	70S	18:30	261	18:51
2024	Feb	26	(Mon)	06:17	06:38	99	12:34	70S	18:30	261	18:51
2024	Feb	27	(Tue)	06:16	06:37	99	12:34	70S	18:30	262	18:51
2024	Feb	28	(Wed)	06:16	06:37	98	12:33	71S	18:30	262	18:51
2024	Feb	29	(Thu)	06:15	06:36	98	12:33	71S	18:30	262	18:51
2024	Mar	01	(Fri)	06:15	06:36	97	12:33	72S	18:30	263	18:52
2024	Mar	02	(Sat)	06:14	06:35	97	12:33	72S	18:30	263	18:52
2024	Mar	03	(Sun)	06:14	06:35	97	12:33	72S	18:30	263	18:52
2024	Mar	04	(Mon)	06:13	06:34	96	12:32	73S	18:31	264	18:52
2024	Mar	05	(Tue)	06:13	06:34	96	12:32	73S	18:31	264	18:52
2024	Mar	06	(Wed)	06:12	06:33	96	12:32	73S	18:31	265	18:52
2024	Mar	07	(Thu)	06:11	06:33	95	12:32	74S	18:31	265	18:52
2024	Mar	08	(Fri)	06:11	06:32	95	12:31	74S	18:31	265	18:52
2024	Mar	09	(Sat)	06:10	06:32	94	12:31	75S	18:31	266	18:52
2024	Mar	10	(Sun)	06:10	06:31	94	12:31	75S	18:31	266	18:52
2024	Mar	11	(Mon)	06:09	06:30	94	12:31	75S	18:31	267	18:52
2024	Mar	12	(Tue)	06:09	06:30	93	12:30	76S	18:31	267	18:52
2024	Mar	13	(Wed)	06:08	06:29	93	12:30	76S	18:31	267	18:52
2024	Mar	14	(Thu)	06:07	06:29	92	12:30	77S	18:31	268	18:52
2024	Mar	15	(Fri)	06:07	06:28	92	12:30	77S	18:31	268	18:52
2024	Mar	16	(Sat)	06:06	06:27	92	12:29	77S	18:31	269	18:53
2024	Mar	17	(Sun)	06:06	06:27	91	12:29	78S	18:31	269	18:53
2024	Mar	18	(Mon)	06:05	06:26	91	12:29	78S	18:31	270	18:53

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

2024	May	25	(Sat)	05:33	05:56	68	12:18	81N	18:40	292	19:03
2024	May	26	(Sun)	05:33	05:56	68	12:18	81N	18:40	292	19:03
2024	May	27	(Mon)	05:33	05:56	68	12:18	81N	18:40	292	19:03
2024	May	28	(Tue)	05:33	05:56	68	12:18	81N	18:41	292	19:04
2024	May	29	(Wed)	05:33	05:55	68	12:18	81N	18:41	292	19:04
2024	May	30	(Thu)	05:33	05:55	68	12:18	81N	18:41	293	19:04
2024	May	31	(Fri)	05:32	05:55	67	12:18	81N	18:42	293	19:05
2024	Jun	01	(Sat)	05:32	05:55	67	12:19	80N	18:42	293	19:05
2024	Jun	02	(Sun)	05:32	05:56	67	12:19	80N	18:42	293	19:05
2024	Jun	03	(Mon)	05:32	05:56	67	12:19	80N	18:42	293	19:05
2024	Jun	04	(Tue)	05:33	05:56	67	12:19	80N	18:43	293	19:06
2024	Jun	05	(Wed)	05:33	05:56	67	12:19	80N	18:43	293	19:06
2024	Jun	06	(Thu)	05:33	05:56	67	12:19	80N	18:43	293	19:06
2024	Jun	07	(Fri)	05:33	05:56	67	12:20	80N	18:44	294	19:07
2024	Jun	08	(Sat)	05:33	05:56	66	12:20	80N	18:44	294	19:07
2024	Jun	09	(Sun)	05:33	05:56	66	12:20	80N	18:44	294	19:07
2024	Jun	10	(Mon)	05:33	05:56	66	12:20	79N	18:44	294	19:08
2024	Jun	11	(Tue)	05:33	05:56	66	12:20	79N	18:45	294	19:08
2024	Jun	12	(Wed)	05:33	05:56	66	12:21	79N	18:45	294	19:08
2024	Jun	13	(Thu)	05:33	05:57	66	12:21	79N	18:45	294	19:08
2024	Jun	14	(Fri)	05:34	05:57	66	12:21	79N	18:45	294	19:09
2024	Jun	15	(Sat)	05:34	05:57	66	12:21	79N	18:46	294	19:09
2024	Jun	16	(Sun)	05:34	05:57	66	12:22	79N	18:46	294	19:09
2024	Jun	17	(Mon)	05:34	05:57	66	12:22	79N	18:46	294	19:09
2024	Jun	18	(Tue)	05:34	05:57	66	12:22	79N	18:46	294	19:10
2024	Jun	19	(Wed)	05:34	05:58	66	12:22	79N	18:47	294	19:10
2024	Jun	20	(Thu)	05:35	05:58	66	12:22	79N	18:47	294	19:10
2024	Jun	21	(Fri)	05:35	05:58	66	12:23	79N	18:47	294	19:10
2024	Jun	22	(Sat)	05:35	05:58	66	12:23	79N	18:47	294	19:11
2024	Jun	23	(Sun)	05:35	05:59	66	12:23	79N	18:48	294	19:11
2024	Jun	24	(Mon)	05:35	05:59	66	12:23	79N	18:48	294	19:11
2024	Jun	25	(Tue)	05:36	05:59	66	12:23	79N	18:48	294	19:11
2024	Jun	26	(Wed)	05:36	05:59	66	12:24	79N	18:48	294	19:11
2024	Jun	27	(Thu)	05:36	06:00	66	12:24	79N	18:48	294	19:11
2024	Jun	28	(Fri)	05:37	06:00	66	12:24	79N	18:48	294	19:12
2024	Jun	29	(Sat)	05:37	06:00	66	12:24	79N	18:49	294	19:12
2024	Jun	30	(Sun)	05:37	06:00	66	12:24	79N	18:49	294	19:12
2024	Jul	01	(Mon)	05:37	06:01	66	12:25	79N	18:49	294	19:12
2024	Jul	02	(Tue)	05:38	06:01	66	12:25	79N	18:49	294	19:12
2024	Jul	03	(Wed)	05:38	06:01	66	12:25	80N	18:49	294	19:12
2024	Jul	04	(Thu)	05:38	06:01	66	12:25	80N	18:49	294	19:12
2024	Jul	05	(Fri)	05:38	06:02	67	12:25	80N	18:49	293	19:12
2024	Jul	06	(Sat)	05:39	06:02	67	12:26	80N	18:49	293	19:12
2024	Jul	07	(Sun)	05:39	06:02	67	12:26	80N	18:49	293	19:12
2024	Jul	08	(Mon)	05:39	06:02	67	12:26	80N	18:49	293	19:12
2024	Jul	09	(Tue)	05:40	06:03	67	12:26	80N	18:49	293	19:12
2024	Jul	10	(Wed)	05:40	06:03	67	12:26	80N	18:49	293	19:12
2024	Jul	11	(Thu)	05:40	06:03	67	12:26	80N	18:49	293	19:12
2024	Jul	12	(Fri)	05:40	06:03	67	12:26	81N	18:49	293	19:12
2024	Jul	13	(Sat)	05:41	06:04	68	12:27	81N	18:49	292	19:12
2024	Jul	14	(Sun)	05:41	06:04	68	12:27	81N	18:49	292	19:12
2024	Jul	15	(Mon)	05:41	06:04	68	12:27	81N	18:49	292	19:12
2024	Jul	16	(Tue)	05:42	06:05	68	12:27	81N	18:49	292	19:12
2024	Jul	17	(Wed)	05:42	06:05	68	12:27	81N	18:49	292	19:12
2024	Jul	18	(Thu)	05:42	06:05	68	12:27	82N	18:49	292	19:12
2024	Jul	19	(Fri)	05:42	06:05	69	12:27	82N	18:49	291	19:12
2024	Jul	20	(Sat)	05:43	06:06	69	12:27	82N	18:49	291	19:11
2024	Jul	21	(Sun)	05:43	06:06	69	12:27	82N	18:49	291	19:11
2024	Jul	22	(Mon)	05:43	06:06	69	12:27	82N	18:48	291	19:11
2024	Jul	23	(Tue)	05:44	06:06	69	12:27	83N	18:48	291	19:11
2024	Jul	24	(Wed)	05:44	06:06	70	12:27	83N	18:48	290	19:11
2024	Jul	25	(Thu)	05:44	06:07	70	12:27	83N	18:48	290	19:10
2024	Jul	26	(Fri)	05:44	06:07	70	12:27	83N	18:48	290	19:10
2024	Jul	27	(Sat)	05:45	06:07	70	12:27	83N	18:47	290	19:10
2024	Jul	28	(Sun)	05:45	06:07	70	12:27	84N	18:47	289	19:10
2024	Jul	29	(Mon)	05:45	06:07	71	12:27	84N	18:47	289	19:09
2024	Jul	30	(Tue)	05:45	06:08	71	12:27	84N	18:47	289	19:09

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

2024	Oct	06	(Sun)	05:49	06:10	95	12:09	74S	18:08	265	18:29
2024	Oct	07	(Mon)	05:49	06:10	96	12:08	73S	18:07	264	18:28
2024	Oct	08	(Tue)	05:49	06:10	96	12:08	73S	18:06	264	18:28
2024	Oct	09	(Wed)	05:49	06:10	96	12:08	72S	18:06	263	18:27
2024	Oct	10	(Thu)	05:49	06:10	97	12:08	72S	18:05	263	18:26
2024	Oct	11	(Fri)	05:49	06:10	97	12:07	72S	18:05	263	18:26
2024	Oct	12	(Sat)	05:49	06:10	97	12:07	71S	18:04	262	18:25
2024	Oct	13	(Sun)	05:49	06:10	98	12:07	71S	18:04	262	18:25
2024	Oct	14	(Mon)	05:49	06:10	98	12:07	71S	18:03	262	18:24
2024	Oct	15	(Tue)	05:49	06:10	99	12:06	70S	18:02	261	18:24
2024	Oct	16	(Wed)	05:49	06:10	99	12:06	70S	18:02	261	18:23
2024	Oct	17	(Thu)	05:49	06:11	99	12:06	69S	18:01	260	18:23
2024	Oct	18	(Fri)	05:49	06:11	100	12:06	69S	18:01	260	18:22
2024	Oct	19	(Sat)	05:49	06:11	100	12:06	69S	18:00	260	18:22
2024	Oct	20	(Sun)	05:49	06:11	100	12:05	68S	18:00	259	18:21
2024	Oct	21	(Mon)	05:50	06:11	101	12:05	68S	17:59	259	18:21
2024	Oct	22	(Tue)	05:50	06:11	101	12:05	68S	17:59	259	18:21
2024	Oct	23	(Wed)	05:50	06:11	102	12:05	67S	17:59	258	18:20
2024	Oct	24	(Thu)	05:50	06:11	102	12:05	67S	17:58	258	18:20
2024	Oct	25	(Fri)	05:50	06:12	102	12:05	67S	17:58	258	18:19
2024	Oct	26	(Sat)	05:50	06:12	103	12:05	66S	17:57	257	18:19
2024	Oct	27	(Sun)	05:50	06:12	103	12:05	66S	17:57	257	18:19
2024	Oct	28	(Mon)	05:51	06:12	103	12:04	66S	17:57	257	18:18
2024	Oct	29	(Tue)	05:51	06:12	104	12:04	65S	17:56	256	18:18
2024	Oct	30	(Wed)	05:51	06:13	104	12:04	65S	17:56	256	18:18
2024	Oct	31	(Thu)	05:51	06:13	104	12:04	65S	17:56	256	18:17
2024	Nov	01	(Fri)	05:51	06:13	105	12:04	64S	17:55	255	18:17
2024	Nov	02	(Sat)	05:52	06:13	105	12:04	64S	17:55	255	18:17
2024	Nov	03	(Sun)	05:52	06:14	105	12:04	64S	17:55	255	18:17
2024	Nov	04	(Mon)	05:52	06:14	106	12:04	63S	17:54	254	18:16
2024	Nov	05	(Tue)	05:52	06:14	106	12:04	63S	17:54	254	18:16
2024	Nov	06	(Wed)	05:53	06:15	106	12:04	63S	17:54	254	18:16
2024	Nov	07	(Thu)	05:53	06:15	107	12:04	63S	17:54	253	18:16
2024	Nov	08	(Fri)	05:53	06:15	107	12:04	62S	17:54	253	18:16
2024	Nov	09	(Sat)	05:54	06:16	107	12:05	62S	17:53	253	18:16
2024	Nov	10	(Sun)	05:54	06:16	107	12:05	62S	17:53	252	18:15
2024	Nov	11	(Mon)	05:54	06:16	108	12:05	61S	17:53	252	18:15
2024	Nov	12	(Tue)	05:54	06:17	108	12:05	61S	17:53	252	18:15
2024	Nov	13	(Wed)	05:55	06:17	108	12:05	61S	17:53	252	18:15
2024	Nov	14	(Thu)	05:55	06:17	109	12:05	61S	17:53	251	18:15
2024	Nov	15	(Fri)	05:56	06:18	109	12:05	60S	17:53	251	18:15
2024	Nov	16	(Sat)	05:56	06:18	109	12:06	60S	17:53	251	18:15
2024	Nov	17	(Sun)	05:56	06:19	109	12:06	60S	17:53	251	18:15
2024	Nov	18	(Mon)	05:57	06:19	110	12:06	60S	17:53	250	18:15
2024	Nov	19	(Tue)	05:57	06:19	110	12:06	59S	17:53	250	18:15
2024	Nov	20	(Wed)	05:57	06:20	110	12:06	59S	17:53	250	18:15
2024	Nov	21	(Thu)	05:58	06:20	110	12:07	59S	17:53	250	18:15
2024	Nov	22	(Fri)	05:58	06:21	110	12:07	59S	17:53	249	18:15
2024	Nov	23	(Sat)	05:59	06:21	111	12:07	58S	17:53	249	18:15
2024	Nov	24	(Sun)	05:59	06:22	111	12:07	58S	17:53	249	18:16
2024	Nov	25	(Mon)	06:00	06:22	111	12:08	58S	17:53	249	18:16
2024	Nov	26	(Tue)	06:00	06:23	111	12:08	58S	17:53	249	18:16
2024	Nov	27	(Wed)	06:01	06:23	111	12:08	58S	17:54	248	18:16
2024	Nov	28	(Thu)	06:01	06:24	112	12:09	58S	17:54	248	18:16
2024	Nov	29	(Fri)	06:02	06:24	112	12:09	57S	17:54	248	18:17
2024	Nov	30	(Sat)	06:02	06:25	112	12:09	57S	17:54	248	18:17
2024	Dec	01	(Sun)	06:03	06:25	112	12:10	57S	17:54	248	18:17
2024	Dec	02	(Mon)	06:03	06:26	112	12:10	57S	17:55	248	18:17
2024	Dec	03	(Tue)	06:04	06:26	112	12:11	57S	17:55	247	18:18
2024	Dec	04	(Wed)	06:04	06:27	113	12:11	57S	17:55	247	18:18
2024	Dec	05	(Thu)	06:05	06:27	113	12:11	56S	17:55	247	18:18
2024	Dec	06	(Fri)	06:05	06:28	113	12:12	56S	17:56	247	18:19
2024	Dec	07	(Sat)	06:06	06:28	113	12:12	56S	17:56	247	18:19
2024	Dec	08	(Sun)	06:06	06:29	113	12:13	56S	17:56	247	18:19
2024	Dec	09	(Mon)	06:07	06:29	113	12:13	56S	17:57	247	18:20
2024	Dec	10	(Tue)	06:07	06:30	113	12:14	56S	17:57	247	18:20
2024	Dec	11	(Wed)	06:08	06:31	113	12:14	56S	17:58	247	18:20

2024	Dec	12	(Thu)	06:08	06:31	113	12:15	56S	17:58	247	18:21
2024	Dec	13	(Fri)	06:09	06:32	114	12:15	56S	17:58	246	18:21
2024	Dec	14	(Sat)	06:09	06:32	114	12:15	56S	17:59	246	18:22
2024	Dec	15	(Sun)	06:10	06:33	114	12:16	56S	17:59	246	18:22
2024	Dec	16	(Mon)	06:10	06:33	114	12:16	56S	18:00	246	18:23
2024	Dec	17	(Tue)	06:11	06:34	114	12:17	56S	18:00	246	18:23
2024	Dec	18	(Wed)	06:11	06:34	114	12:17	56S	18:01	246	18:23
2024	Dec	19	(Thu)	06:12	06:35	114	12:18	56S	18:01	246	18:24
2024	Dec	20	(Fri)	06:12	06:35	114	12:18	55S	18:01	246	18:24
2024	Dec	21	(Sat)	06:13	06:36	114	12:19	55S	18:02	246	18:25
2024	Dec	22	(Sun)	06:13	06:36	114	12:19	55S	18:02	246	18:25
2024	Dec	23	(Mon)	06:14	06:37	114	12:20	55S	18:03	246	18:26
2024	Dec	24	(Tue)	06:14	06:37	114	12:20	56S	18:04	246	18:26
2024	Dec	25	(Wed)	06:15	06:38	114	12:21	56S	18:04	246	18:27
2024	Dec	26	(Thu)	06:15	06:38	114	12:21	56S	18:05	246	18:28
2024	Dec	27	(Fri)	06:16	06:39	114	12:22	56S	18:05	246	18:28
2024	Dec	28	(Sat)	06:16	06:39	114	12:22	56S	18:06	246	18:29
2024	Dec	29	(Sun)	06:17	06:40	114	12:23	56S	18:06	246	18:29
2024	Dec	30	(Mon)	06:17	06:40	113	12:23	56S	18:07	247	18:30
2024	Dec	31	(Tue)	06:17	06:40	113	12:24	56S	18:07	247	18:30

Moon

VTMP

Location: E 99°49'00.0", N11°47'00.0", 10m
(Longitude referred to Greenwich meridian)

Time Zone: 7h 00m east of Greenwich

Date			Rise			Az.			Transit Alt.			Set			Az.		
(Zone)																	
			h	m	°				h	m	°	h	m	°			
2024	Jan	01 (Mon)	22:35	81					04:12	89N		10:32	282				
2024	Jan	02 (Tue)	23:19	86					04:52	87S		11:07	277				
2024	Jan	03 (Wed)							05:31	81S		11:41	271				
2024	Jan	04 (Thu)	00:03	92					06:11	75S		12:16	265				
2024	Jan	05 (Fri)	00:48	98					06:51	69S		12:52	259				
2024	Jan	06 (Sat)	01:35	104					07:34	64S		13:30	254				
2024	Jan	07 (Sun)	02:26	109					08:21	59S		14:14	249				
2024	Jan	08 (Mon)	03:21	114					09:12	54S		15:02	245				
2024	Jan	09 (Tue)	04:20	117					10:09	51S		15:58	242				
2024	Jan	10 (Wed)	05:23	119					11:11	50S		16:59	241				
2024	Jan	11 (Thu)	06:26	118					12:15	51S		18:05	242				
2024	Jan	12 (Fri)	07:27	116					13:18	54S		19:10	246				
2024	Jan	13 (Sat)	08:23	112					14:17	59S		20:14	251				
2024	Jan	14 (Sun)	09:13	106					15:12	65S		21:14	257				
2024	Jan	15 (Mon)	10:00	99					16:04	71S		22:11	264				
2024	Jan	16 (Tue)	10:43	92					16:53	79S		23:05	272				
2024	Jan	17 (Wed)	11:25	85					17:40	86S		23:59	279				
2024	Jan	18 (Thu)	12:07	78					18:28	89N							
2024	Jan	19 (Fri)	12:51	72					19:18	84N		00:53	285				
2024	Jan	20 (Sat)	13:37	67					20:09	79N		01:48	290				
2024	Jan	21 (Sun)	14:26	64					21:03	76N		02:44	295				
2024	Jan	22 (Mon)	15:19	62					21:58	74N		03:42	298				
2024	Jan	23 (Tue)	16:14	61					22:54	74N		04:38	299				
2024	Jan	24 (Wed)	17:09	62					23:47	76N		05:33	298				
2024	Jan	25 (Thu)	18:03	65								06:24	296				
2024	Jan	26 (Fri)	18:55	69					00:38	79N		07:10	293				
2024	Jan	27 (Sat)	19:44	73					01:25	83N		07:52	289				
2024	Jan	28 (Sun)	20:30	79					02:08	87N		08:30	284				
2024	Jan	29 (Mon)	21:15	84					02:49	89S		09:06	278				
2024	Jan	30 (Tue)	21:58	90					03:29	83S		09:40	273				
2024	Jan	31 (Wed)	22:42	96					04:07	77S		10:14	267				
2024	Feb	01 (Thu)	23:28	102					04:47	71S		10:49	261				
2024	Feb	02 (Fri)							05:28	66S		11:26	256				
2024	Feb	03 (Sat)	00:16	107					06:12	60S		12:06	250				
2024	Feb	04 (Sun)	01:07	112					07:00	56S		12:51	246				

2024 Feb 05 (Mon)	02:03 116	07:53 52S	13:42 243
2024 Feb 06 (Tue)	03:03 118	08:51 50S	14:39 241
2024 Feb 07 (Wed)	04:05 119	09:53 50S	15:42 241
2024 Feb 08 (Thu)	05:07 118	10:56 52S	16:47 244
2024 Feb 09 (Fri)	06:05 114	11:58 56S	17:53 248
2024 Feb 10 (Sat)	07:00 109	12:57 61S	18:56 254
2024 Feb 11 (Sun)	07:49 102	13:51 68S	19:56 261
2024 Feb 12 (Mon)	08:35 95	14:43 76S	20:54 269
2024 Feb 13 (Tue)	09:19 88	15:33 83S	21:50 276
2024 Feb 14 (Wed)	10:03 80	16:23 90S	22:46 283
2024 Feb 15 (Thu)	10:47 74	17:13 85N	23:42 289
2024 Feb 16 (Fri)	11:34 69	18:05 80N	
2024 Feb 17 (Sat)	12:23 64	18:59 76N	00:39 294
2024 Feb 18 (Sun)	13:15 62	19:54 74N	01:37 297
2024 Feb 19 (Mon)	14:09 61	20:49 74N	02:34 299
2024 Feb 20 (Tue)	15:04 62	21:43 75N	03:29 299
2024 Feb 21 (Wed)	15:58 64	22:34 77N	04:21 297
2024 Feb 22 (Thu)	16:50 67	23:22 81N	05:08 294
2024 Feb 23 (Fri)	17:40 72		05:51 290
2024 Feb 24 (Sat)	18:27 77	00:06 86N	06:30 286
2024 Feb 25 (Sun)	19:12 82	00:48 90S	07:06 280
2024 Feb 26 (Mon)	19:56 88	01:28 85S	07:41 275
2024 Feb 27 (Tue)	20:40 94	02:07 79S	08:15 269
2024 Feb 28 (Wed)	21:24 100	02:45 73S	08:49 263
2024 Feb 29 (Thu)	22:11 106	03:26 67S	09:25 257
2024 Mar 01 (Fri)	23:00 111	04:08 62S	10:03 252
2024 Mar 02 (Sat)	23:53 115	04:54 57S	10:45 247
2024 Mar 03 (Sun)		05:43 53S	11:32 244
2024 Mar 04 (Mon)	00:50 118	06:38 51S	12:25 241
2024 Mar 05 (Tue)	01:49 119	07:36 50S	13:24 241
2024 Mar 06 (Wed)	02:49 119	08:37 51S	14:26 242
2024 Mar 07 (Thu)	03:48 116	09:38 54S	15:30 246
2024 Mar 08 (Fri)	04:43 112	10:37 58S	16:34 251
2024 Mar 09 (Sat)	05:34 106	11:33 64S	17:35 257
2024 Mar 10 (Sun)	06:22 99	12:27 72S	18:35 265
2024 Mar 11 (Mon)	07:08 91	13:19 79S	19:33 272
2024 Mar 12 (Tue)	07:53 84	14:10 87S	20:31 280
2024 Mar 13 (Wed)	08:38 77	15:02 88N	21:29 287
2024 Mar 14 (Thu)	09:25 71	15:55 82N	22:28 292
2024 Mar 15 (Fri)	10:15 66	16:50 78N	23:28 296
2024 Mar 16 (Sat)	11:08 62	17:47 75N	
2024 Mar 17 (Sun)	12:03 61	18:44 74N	00:27 299
2024 Mar 18 (Mon)	12:59 61	19:39 74N	01:24 299
2024 Mar 19 (Tue)	13:54 63	20:31 76N	02:17 298
2024 Mar 20 (Wed)	14:47 66	21:19 80N	03:06 296
2024 Mar 21 (Thu)	15:37 70	22:05 84N	03:50 292
2024 Mar 22 (Fri)	16:24 75	22:47 89N	04:30 287
2024 Mar 23 (Sat)	17:10 81	23:27 87S	05:07 282
2024 Mar 24 (Sun)	17:54 86		05:42 277
2024 Mar 25 (Mon)	18:38 92	00:06 81S	06:16 271
2024 Mar 26 (Tue)	19:22 98	00:45 75S	06:50 265
2024 Mar 27 (Wed)	20:08 104	01:25 69S	07:25 259
2024 Mar 28 (Thu)	20:57 109	02:07 64S	08:03 254
2024 Mar 29 (Fri)	21:48 114	02:51 59S	08:44 249
2024 Mar 30 (Sat)	22:43 117	03:39 54S	09:29 245
2024 Mar 31 (Sun)	23:41 119	04:32 51S	10:19 242
2024 Apr 01 (Mon)		05:28 50S	11:14 241
2024 Apr 02 (Tue)	00:39 119	06:26 50S	12:14 241
2024 Apr 03 (Wed)	01:36 118	07:25 52S	13:15 244
2024 Apr 04 (Thu)	02:31 114	08:23 56S	14:17 248
2024 Apr 05 (Fri)	03:22 109	09:18 61S	15:17 254
2024 Apr 06 (Sat)	04:10 103	10:12 68S	16:16 261
2024 Apr 07 (Sun)	04:56 95	11:03 75S	17:14 268
2024 Apr 08 (Mon)	05:40 88	11:54 83S	18:11 276
2024 Apr 09 (Tue)	06:25 80	12:46 90S	19:10 283
2024 Apr 10 (Wed)	07:12 74	13:39 85N	20:10 290
2024 Apr 11 (Thu)	08:02 68	14:35 79N	21:11 294

2024 Apr 12 (Fri)	08:55	64	15:33	76N	22:13	298
2024 Apr 13 (Sat)	09:51	61	16:32	74N	23:13	299
2024 Apr 14 (Sun)	10:49	61	17:30	74N		
2024 Apr 15 (Mon)	11:46	62	18:24	75N	00:10	299
2024 Apr 16 (Tue)	12:40	65	19:15	78N	01:01	297
2024 Apr 17 (Wed)	13:32	69	20:02	83N	01:47	293
2024 Apr 18 (Thu)	14:21	73	20:45	87N	02:29	289
2024 Apr 19 (Fri)	15:07	79	21:26	89S	03:07	284
2024 Apr 20 (Sat)	15:51	84	22:05	83S	03:43	279
2024 Apr 21 (Sun)	16:35	90	22:44	77S	04:17	273
2024 Apr 22 (Mon)	17:19	96	23:24	71S	04:51	267
2024 Apr 23 (Tue)	18:05	102			05:26	261
2024 Apr 24 (Wed)	18:53	107	00:05	65S	06:02	255
2024 Apr 25 (Thu)	19:44	112	00:49	60S	06:42	250
2024 Apr 26 (Fri)	20:39	116	01:36	56S	07:27	246
2024 Apr 27 (Sat)	21:36	118	02:28	52S	08:16	243
2024 Apr 28 (Sun)	22:34	119	03:23	50S	09:10	241
2024 Apr 29 (Mon)	23:31	118	04:21	50S	10:08	241
2024 Apr 30 (Tue)			05:19	51S	11:08	243
2024 May 01 (Wed)	00:25	115	06:16	54S	12:08	246
2024 May 02 (Thu)	01:16	111	07:11	59S	13:07	252
2024 May 03 (Fri)	02:04	105	08:03	65S	14:04	258
2024 May 04 (Sat)	02:48	99	08:53	72S	15:00	265
2024 May 05 (Sun)	03:32	91	09:42	79S	15:56	272
2024 May 06 (Mon)	04:15	84	10:32	87S	16:52	280
2024 May 07 (Tue)	05:00	77	11:24	88N	17:51	286
2024 May 08 (Wed)	05:48	71	12:18	82N	18:51	292
2024 May 09 (Thu)	06:40	66	13:16	77N	19:54	296
2024 May 10 (Fri)	07:36	62	14:15	75N	20:56	299
2024 May 11 (Sat)	08:34	61	15:15	74N	21:56	299
2024 May 12 (Sun)	09:33	61	16:13	75N	22:51	298
2024 May 13 (Mon)	10:30	64	17:06	77N	23:41	295
2024 May 14 (Tue)	11:24	67	17:56	81N		
2024 May 15 (Wed)	12:14	71	18:41	86N	00:25	291
2024 May 16 (Thu)	13:02	77	19:23	91S	01:05	286
2024 May 17 (Fri)	13:47	82	20:03	85S	01:42	281
2024 May 18 (Sat)	14:31	88	20:42	79S	02:16	275
2024 May 19 (Sun)	15:15	94	21:21	73S	02:50	269
2024 May 20 (Mon)	16:00	100	22:01	68S	03:25	263
2024 May 21 (Tue)	16:47	106	22:44	62S	04:01	257
2024 May 22 (Wed)	17:37	111	23:31	57S	04:40	252
2024 May 23 (Thu)	18:31	115			05:23	247
2024 May 24 (Fri)	19:28	118	00:22	53S	06:11	244
2024 May 25 (Sat)	20:27	119	01:17	51S	07:04	241
2024 May 26 (Sun)	21:26	119	02:14	50S	08:02	241
2024 May 27 (Mon)	22:22	116	03:14	51S	09:02	242
2024 May 28 (Tue)	23:14	112	04:12	53S	10:03	245
2024 May 29 (Wed)			05:07	58S	11:02	250
2024 May 30 (Thu)	00:02	107	05:59	63S	11:59	256
2024 May 31 (Fri)	00:46	101	06:49	70S	12:54	263
2024 Jun 01 (Sat)	01:29	94	07:37	77S	13:48	270
2024 Jun 02 (Sun)	02:11	87	08:25	84S	14:42	277
2024 Jun 03 (Mon)	02:53	80	09:14	91N	15:38	284
2024 Jun 04 (Tue)	03:39	73	10:06	84N	16:36	290
2024 Jun 05 (Wed)	04:28	68	11:01	79N	17:37	295
2024 Jun 06 (Thu)	05:21	64	11:59	76N	18:39	298
2024 Jun 07 (Fri)	06:18	61	12:59	74N	19:40	299
2024 Jun 08 (Sat)	07:17	61	13:58	74N	20:38	298
2024 Jun 09 (Sun)	08:16	63	14:55	76N	21:31	296
2024 Jun 10 (Mon)	09:13	66	15:47	79N	22:18	292
2024 Jun 11 (Tue)	10:05	70	16:34	84N	23:01	288
2024 Jun 12 (Wed)	10:54	75	17:18	89N	23:39	283
2024 Jun 13 (Thu)	11:41	80	17:59	87S		
2024 Jun 14 (Fri)	12:25	86	18:38	81S	00:14	277
2024 Jun 15 (Sat)	13:09	92	19:17	75S	00:48	271
2024 Jun 16 (Sun)	13:53	98	19:57	70S	01:22	265
2024 Jun 17 (Mon)	14:39	103	20:38	64S	01:57	259

2024 Jun 18 (Tue)	15:28 109	21:23 59S	02:35 254
2024 Jun 19 (Wed)	16:21 113	22:12 55S	03:16 249
2024 Jun 20 (Thu)	17:17 117	23:06 52S	04:02 245
2024 Jun 21 (Fri)	18:16 119		04:54 242
2024 Jun 22 (Sat)	19:16 119	00:04 50S	05:51 241
2024 Jun 23 (Sun)	20:14 117	01:04 50S	06:52 242
2024 Jun 24 (Mon)	21:09 114	02:04 52S	07:54 244
2024 Jun 25 (Tue)	21:59 109	03:01 56S	08:55 249
2024 Jun 26 (Wed)	22:45 102	03:55 62S	09:54 254
2024 Jun 27 (Thu)	23:28 96	04:46 68S	10:50 261
2024 Jun 28 (Fri)		05:35 75S	11:44 268
2024 Jun 29 (Sat)	00:10 89	06:22 82S	12:38 275
2024 Jun 30 (Sun)	00:52 82	07:10 89S	13:32 282
2024 Jul 01 (Mon)	01:35 75	08:00 86N	14:28 288
2024 Jul 02 (Tue)	02:22 69	08:53 81N	15:27 293
2024 Jul 03 (Wed)	03:13 65	09:49 77N	16:27 297
2024 Jul 04 (Thu)	04:07 62	10:47 74N	17:28 299
2024 Jul 05 (Fri)	05:05 61	11:46 74N	18:27 299
2024 Jul 06 (Sat)	06:04 62	12:43 75N	19:21 297
2024 Jul 07 (Sun)	07:01 64	13:37 78N	20:11 294
2024 Jul 08 (Mon)	07:56 68	14:27 82N	20:55 290
2024 Jul 09 (Tue)	08:46 73	15:12 87N	21:35 285
2024 Jul 10 (Wed)	09:34 78	15:54 89S	22:12 279
2024 Jul 11 (Thu)	10:19 84	16:34 83S	22:46 273
2024 Jul 12 (Fri)	11:03 90	17:13 78S	23:20 267
2024 Jul 13 (Sat)	11:47 96	17:52 72S	23:54 262
2024 Jul 14 (Sun)	12:32 101	18:32 66S	
2024 Jul 15 (Mon)	13:19 107	19:15 61S	00:30 256
2024 Jul 16 (Tue)	14:09 112	20:02 56S	01:09 251
2024 Jul 17 (Wed)	15:04 115	20:53 53S	01:53 246
2024 Jul 18 (Thu)	16:01 118	21:49 50S	02:42 243
2024 Jul 19 (Fri)	17:01 119	22:49 50S	03:36 241
2024 Jul 20 (Sat)	18:01 118	23:49 51S	04:36 241
2024 Jul 21 (Sun)	18:58 115		05:39 243
2024 Jul 22 (Mon)	19:51 111	00:49 55S	06:42 247
2024 Jul 23 (Tue)	20:40 105	01:46 59S	07:44 252
2024 Jul 24 (Wed)	21:25 98	02:40 66S	08:42 259
2024 Jul 25 (Thu)	22:08 91	03:30 73S	09:38 266
2024 Jul 26 (Fri)	22:51 84	04:19 80S	10:33 273
2024 Jul 27 (Sat)	23:34 77	05:08 87S	11:28 280
2024 Jul 28 (Sun)		05:57 88N	12:24 286
2024 Jul 29 (Mon)	00:20 71	06:49 82N	13:21 292
2024 Jul 30 (Tue)	01:09 66	07:44 78N	14:21 296
2024 Jul 31 (Wed)	02:01 63	08:40 75N	15:20 298
2024 Aug 01 (Thu)	02:57 61	09:38 74N	16:19 299
2024 Aug 02 (Fri)	03:55 61	10:35 74N	17:14 298
2024 Aug 03 (Sat)	04:52 63	11:30 77N	18:05 295
2024 Aug 04 (Sun)	05:48 66	12:20 80N	18:51 291
2024 Aug 05 (Mon)	06:39 71	13:07 85N	19:32 287
2024 Aug 06 (Tue)	07:28 76	13:50 90N	20:10 281
2024 Aug 07 (Wed)	08:14 82	14:31 86S	20:45 275
2024 Aug 08 (Thu)	08:59 88	15:10 80S	21:19 269
2024 Aug 09 (Fri)	09:43 94	15:49 74S	21:53 264
2024 Aug 10 (Sat)	10:27 99	16:28 68S	22:28 258
2024 Aug 11 (Sun)	11:12 105	17:10 63S	23:05 253
2024 Aug 12 (Mon)	12:00 110	17:54 58S	23:46 248
2024 Aug 13 (Tue)	12:52 114	18:42 54S	
2024 Aug 14 (Wed)	13:47 117	19:35 51S	00:31 244
2024 Aug 15 (Thu)	14:45 119	20:32 50S	01:22 242
2024 Aug 16 (Fri)	15:44 119	21:32 50S	02:19 241
2024 Aug 17 (Sat)	16:43 117	22:32 53S	03:20 242
2024 Aug 18 (Sun)	17:38 113	23:31 57S	04:23 245
2024 Aug 19 (Mon)	18:29 108		05:26 249
2024 Aug 20 (Tue)	19:17 101	00:27 63S	06:27 255
2024 Aug 21 (Wed)	20:02 94	01:20 70S	07:26 263
2024 Aug 22 (Thu)	20:46 86	02:11 77S	08:23 270
2024 Aug 23 (Fri)	21:30 79	03:01 84S	09:20 278

2024 Aug 24 (Sat)	22:16	72	03:52	90N	10:17	284
2024 Aug 25 (Sun)	23:05	67	04:44	84N	11:15	290
2024 Aug 26 (Mon)	23:57	63	05:39	79N	12:15	295
2024 Aug 27 (Tue)			06:36	75N	13:15	298
2024 Aug 28 (Wed)	00:53	61	07:33	74N	14:14	299
2024 Aug 29 (Thu)	01:50	61	08:31	74N	15:11	299
2024 Aug 30 (Fri)	02:47	62	09:26	76N	16:02	296
2024 Aug 31 (Sat)	03:42	65	10:17	79N	16:49	293
2024 Sep 01 (Sun)	04:35	69	11:04	83N	17:31	288
2024 Sep 02 (Mon)	05:24	74	11:48	88N	18:09	283
2024 Sep 03 (Tue)	06:11	80	12:29	88S	18:45	277
2024 Sep 04 (Wed)	06:56	86	13:09	82S	19:19	271
2024 Sep 05 (Thu)	07:39	91	13:48	76S	19:53	266
2024 Sep 06 (Fri)	08:23	97	14:27	70S	20:27	260
2024 Sep 07 (Sat)	09:08	103	15:07	65S	21:04	254
2024 Sep 08 (Sun)	09:55	108	15:50	60S	21:42	250
2024 Sep 09 (Mon)	10:45	113	16:36	55S	22:25	245
2024 Sep 10 (Tue)	11:37	116	17:26	52S	23:13	242
2024 Sep 11 (Wed)	12:33	119	18:20	50S		
2024 Sep 12 (Thu)	13:30	119	19:17	50S	00:06	241
2024 Sep 13 (Fri)	14:27	118	20:15	51S	01:04	241
2024 Sep 14 (Sat)	15:23	115	21:13	54S	02:04	243
2024 Sep 15 (Sun)	16:15	111	22:10	59S	03:06	247
2024 Sep 16 (Mon)	17:04	105	23:04	66S	04:07	252
2024 Sep 17 (Tue)	17:51	98	23:56	73S	05:07	259
2024 Sep 18 (Wed)	18:36	90			06:05	266
2024 Sep 19 (Thu)	19:21	82	00:48	81S	07:03	274
2024 Sep 20 (Fri)	20:07	75	01:40	88S	08:02	281
2024 Sep 21 (Sat)	20:57	69	02:33	86N	09:02	288
2024 Sep 22 (Sun)	21:50	64	03:29	81N	10:04	294
2024 Sep 23 (Mon)	22:46	62	04:27	76N	11:06	297
2024 Sep 24 (Tue)	23:44	61	05:26	74N	12:07	299
2024 Sep 25 (Wed)			06:25	74N	13:06	299
2024 Sep 26 (Thu)	00:42	62	07:21	75N	14:00	297
2024 Sep 27 (Fri)	01:38	64	08:14	78N	14:48	294
2024 Sep 28 (Sat)	02:32	68	09:03	82N	15:31	290
2024 Sep 29 (Sun)	03:22	72	09:47	87N	16:10	285
2024 Sep 30 (Mon)	04:09	78	10:29	89S	16:46	279
2024 Oct 01 (Tue)	04:54	84	11:09	84S	17:21	273
2024 Oct 02 (Wed)	05:38	90	11:47	78S	17:55	268
2024 Oct 03 (Thu)	06:21	95	12:26	72S	18:29	262
2024 Oct 04 (Fri)	07:06	101	13:06	66S	19:04	256
2024 Oct 05 (Sat)	07:52	107	13:48	61S	19:42	251
2024 Oct 06 (Sun)	08:41	111	14:33	57S	20:23	247
2024 Oct 07 (Mon)	09:32	115	15:21	53S	21:09	243
2024 Oct 08 (Tue)	10:26	118	16:13	51S	21:59	241
2024 Oct 09 (Wed)	11:22	119	17:08	50S	22:54	241
2024 Oct 10 (Thu)	12:18	119	18:04	50S	23:52	242
2024 Oct 11 (Fri)	13:12	117	19:01	53S		
2024 Oct 12 (Sat)	14:04	113	19:56	57S	00:51	245
2024 Oct 13 (Sun)	14:52	108	20:49	63S	01:51	249
2024 Oct 14 (Mon)	15:39	101	21:41	69S	02:49	255
2024 Oct 15 (Tue)	16:23	94	22:32	77S	03:46	262
2024 Oct 16 (Wed)	17:08	86	23:23	84S	04:44	270
2024 Oct 17 (Thu)	17:54	79			05:42	277
2024 Oct 18 (Fri)	18:43	72	00:16	90N	06:42	285
2024 Oct 19 (Sat)	19:35	67	01:12	83N	07:44	291
2024 Oct 20 (Sun)	20:32	63	02:11	78N	08:49	296
2024 Oct 21 (Mon)	21:32	61	03:12	75N	09:53	299
2024 Oct 22 (Tue)	22:32	61	04:13	74N	10:55	299
2024 Oct 23 (Wed)	23:31	63	05:13	74N	11:52	298
2024 Oct 24 (Thu)			06:08	77N	12:44	295
2024 Oct 25 (Fri)	00:26	66	06:59	80N	13:29	291
2024 Oct 26 (Sat)	01:18	71	07:45	85N	14:10	287
2024 Oct 27 (Sun)	02:06	76	08:28	90N	14:47	281
2024 Oct 28 (Mon)	02:52	82	09:08	86S	15:22	275
2024 Oct 29 (Tue)	03:36	88	09:47	80S	15:56	269

2024	Oct	30	(Wed)	04:19	94	10:26	74S	16:30	264
2024	Oct	31	(Thu)	05:03	99	11:05	68S	17:05	258
2024	Nov	01	(Fri)	05:49	105	11:47	63S	17:42	253
2024	Nov	02	(Sat)	06:37	110	12:31	58S	18:22	248
2024	Nov	03	(Sun)	07:28	114	13:18	54S	19:07	244
2024	Nov	04	(Mon)	08:22	117	14:09	51S	19:56	242
2024	Nov	05	(Tue)	09:17	119	15:03	50S	20:50	241
2024	Nov	06	(Wed)	10:13	119	15:59	50S	21:46	241
2024	Nov	07	(Thu)	11:07	118	16:55	52S	22:44	244
2024	Nov	08	(Fri)	11:58	114	17:49	55S	23:42	248
2024	Nov	09	(Sat)	12:46	110	18:41	60S		
2024	Nov	10	(Sun)	13:32	104	19:31	66S	00:38	253
2024	Nov	11	(Mon)	14:15	97	20:20	73S	01:34	259
2024	Nov	12	(Tue)	14:58	90	21:09	81S	02:29	266
2024	Nov	13	(Wed)	15:42	83	22:00	88S	03:24	274
2024	Nov	14	(Thu)	16:28	76	22:53	87N	04:22	281
2024	Nov	15	(Fri)	17:18	69	23:50	81N	05:22	288
2024	Nov	16	(Sat)	18:13	65			06:25	293
2024	Nov	17	(Sun)	19:13	62	00:51	76N	07:31	297
2024	Nov	18	(Mon)	20:15	61	01:54	74N	08:36	299
2024	Nov	19	(Tue)	21:16	62	02:57	74N	09:38	299
2024	Nov	20	(Wed)	22:15	65	03:56	76N	10:34	297
2024	Nov	21	(Thu)	23:10	69	04:50	79N	11:23	293
2024	Nov	22	(Fri)			05:40	83N	12:07	288
2024	Nov	23	(Sat)	00:00	74	06:24	88N	12:46	283
2024	Nov	24	(Sun)	00:47	80	07:06	88S	13:22	277
2024	Nov	25	(Mon)	01:32	86	07:45	82S	13:56	271
2024	Nov	26	(Tue)	02:16	92	08:24	76S	14:30	266
2024	Nov	27	(Wed)	03:00	97	09:03	70S	15:04	260
2024	Nov	28	(Thu)	03:45	103	09:44	65S	15:40	254
2024	Nov	29	(Fri)	04:32	108	10:27	60S	16:20	250
2024	Nov	30	(Sat)	05:22	113	11:14	55S	17:03	245
2024	Dec	01	(Sun)	06:15	116	12:04	52S	17:52	243
2024	Dec	02	(Mon)	07:11	118	12:58	50S	18:44	241
2024	Dec	03	(Tue)	08:07	119	13:54	50S	19:41	241
2024	Dec	04	(Wed)	09:03	118	14:50	51S	20:39	243
2024	Dec	05	(Thu)	09:55	115	15:45	54S	21:37	246
2024	Dec	06	(Fri)	10:44	111	16:38	59S	22:34	251
2024	Dec	07	(Sat)	11:30	106	17:28	65S	23:28	257
2024	Dec	08	(Sun)	12:13	99	18:16	71S		
2024	Dec	09	(Mon)	12:54	93	19:03	78S	00:22	264
2024	Dec	10	(Tue)	13:36	85	19:51	85S	01:15	271
2024	Dec	11	(Wed)	14:19	78	20:41	89N	02:10	278
2024	Dec	12	(Thu)	15:06	72	21:35	83N	03:06	285
2024	Dec	13	(Fri)	15:57	67	22:32	78N	04:06	291
2024	Dec	14	(Sat)	16:54	63	23:34	75N	05:10	296
2024	Dec	15	(Sun)	17:55	61			06:15	298
2024	Dec	16	(Mon)	18:57	61	00:37	74N	07:19	299
2024	Dec	17	(Tue)	19:59	64	01:38	75N	08:18	298
2024	Dec	18	(Wed)	20:57	67	02:36	77N	09:12	295
2024	Dec	19	(Thu)	21:50	72	03:29	81N	09:59	290
2024	Dec	20	(Fri)	22:40	78	04:17	86N	10:41	285
2024	Dec	21	(Sat)	23:26	83	05:00	90S	11:18	279
2024	Dec	22	(Sun)			05:41	84S	11:54	274
2024	Dec	23	(Mon)	00:10	89	06:20	78S	12:28	268
2024	Dec	24	(Tue)	00:54	95	06:59	72S	13:02	262
2024	Dec	25	(Wed)	01:39	101	07:39	66S	13:37	256
2024	Dec	26	(Thu)	02:25	106	08:21	61S	14:15	251
2024	Dec	27	(Fri)	03:14	111	09:06	57S	14:57	247
2024	Dec	28	(Sat)	04:06	115	09:55	53S	15:44	243
2024	Dec	29	(Sun)	05:01	118	10:48	51S	16:35	241
2024	Dec	30	(Mon)	05:58	119	11:45	50S	17:31	241
2024	Dec	31	(Tue)	06:55	119	12:42	51S	18:30	242