

Sun

VTDB

Location: E 99°08'00.0", N 9°08'00.0", 20m
(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)	05:50	06:39 113		12:27 59S	18:15 247		19:04
2024 Jan 02 (Tue)	05:50	06:39 113		12:27 59S	18:15 247		19:04
2024 Jan 03 (Wed)	05:50	06:39 113		12:28 59S	18:16 247		19:05
2024 Jan 04 (Thu)	05:51	06:40 113		12:28 59S	18:16 247		19:05
2024 Jan 05 (Fri)	05:51	06:40 113		12:29 59S	18:17 247		19:06
2024 Jan 06 (Sat)	05:52	06:41 113		12:29 59S	18:17 247		19:06
2024 Jan 07 (Sun)	05:52	06:41 113		12:29 59S	18:18 247		19:07
2024 Jan 08 (Mon)	05:53	06:41 112		12:30 59S	18:18 248		19:07
2024 Jan 09 (Tue)	05:53	06:42 112		12:30 59S	18:19 248		19:08
2024 Jan 10 (Wed)	05:53	06:42 112		12:31 60S	18:20 248		19:08
2024 Jan 11 (Thu)	05:54	06:42 112		12:31 60S	18:20 248		19:09
2024 Jan 12 (Fri)	05:54	06:42 112		12:31 60S	18:21 248		19:09
2024 Jan 13 (Sat)	05:54	06:43 112		12:32 60S	18:21 248		19:09
2024 Jan 14 (Sun)	05:55	06:43 112		12:32 60S	18:22 249		19:10
2024 Jan 15 (Mon)	05:55	06:43 111		12:33 60S	18:22 249		19:10
2024 Jan 16 (Tue)	05:55	06:43 111		12:33 61S	18:23 249		19:11
2024 Jan 17 (Wed)	05:55	06:44 111		12:33 61S	18:23 249		19:11
2024 Jan 18 (Thu)	05:56	06:44 111		12:34 61S	18:23 249		19:12
2024 Jan 19 (Fri)	05:56	06:44 111		12:34 61S	18:24 249		19:12
2024 Jan 20 (Sat)	05:56	06:44 110		12:34 61S	18:24 250		19:12
2024 Jan 21 (Sun)	05:56	06:44 110		12:35 62S	18:25 250		19:13
2024 Jan 22 (Mon)	05:57	06:44 110		12:35 62S	18:25 250		19:13
2024 Jan 23 (Tue)	05:57	06:45 110		12:35 62S	18:26 250		19:13
2024 Jan 24 (Wed)	05:57	06:45 109		12:35 62S	18:26 251		19:14
2024 Jan 25 (Thu)	05:57	06:45 109		12:36 62S	18:27 251		19:14
2024 Jan 26 (Fri)	05:57	06:45 109		12:36 63S	18:27 251		19:15
2024 Jan 27 (Sat)	05:57	06:45 109		12:36 63S	18:27 251		19:15
2024 Jan 28 (Sun)	05:57	06:45 108		12:36 63S	18:28 252		19:15
2024 Jan 29 (Mon)	05:57	06:45 108		12:36 64S	18:28 252		19:15
2024 Jan 30 (Tue)	05:58	06:45 108		12:37 64S	18:28 252		19:16
2024 Jan 31 (Wed)	05:58	06:45 108		12:37 64S	18:29 252		19:16
2024 Feb 01 (Thu)	05:58	06:45 107		12:37 64S	18:29 253		19:16
2024 Feb 02 (Fri)	05:58	06:45 107		12:37 65S	18:29 253		19:17
2024 Feb 03 (Sat)	05:58	06:45 107		12:37 65S	18:30 253		19:17
2024 Feb 04 (Sun)	05:58	06:45 107		12:37 65S	18:30 254		19:17
2024 Feb 05 (Mon)	05:58	06:45 106		12:37 66S	18:30 254		19:17
2024 Feb 06 (Tue)	05:58	06:44 106		12:37 66S	18:31 254		19:17
2024 Feb 07 (Wed)	05:57	06:44 106		12:38 66S	18:31 255		19:18
2024 Feb 08 (Thu)	05:57	06:44 105		12:38 66S	18:31 255		19:18
2024 Feb 09 (Fri)	05:57	06:44 105		12:38 67S	18:31 255		19:18
2024 Feb 10 (Sat)	05:57	06:44 105		12:38 67S	18:32 256		19:18
2024 Feb 11 (Sun)	05:57	06:44 104		12:38 67S	18:32 256		19:18
2024 Feb 12 (Mon)	05:57	06:43 104		12:38 68S	18:32 256		19:19
2024 Feb 13 (Tue)	05:57	06:43 104		12:38 68S	18:32 257		19:19
2024 Feb 14 (Wed)	05:57	06:43 103		12:38 68S	18:33 257		19:19
2024 Feb 15 (Thu)	05:56	06:43 103		12:38 69S	18:33 257		19:19
2024 Feb 16 (Fri)	05:56	06:42 103		12:38 69S	18:33 258		19:19
2024 Feb 17 (Sat)	05:56	06:42 102		12:37 69S	18:33 258		19:19
2024 Feb 18 (Sun)	05:56	06:42 102		12:37 70S	18:33 258		19:19
2024 Feb 19 (Mon)	05:55	06:41 102		12:37 70S	18:33 259		19:19
2024 Feb 20 (Tue)	05:55	06:41 101		12:37 70S	18:33 259		19:19
2024 Feb 21 (Wed)	05:55	06:41 101		12:37 71S	18:34 259		19:20
2024 Feb 22 (Thu)	05:55	06:40 100		12:37 71S	18:34 260		19:20
2024 Feb 23 (Fri)	05:54	06:40 100		12:37 72S	18:34 260		19:20
2024 Feb 24 (Sat)	05:54	06:40 100		12:37 72S	18:34 260		19:20

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

2024	May	02	(Thu)	05:19	06:07	74	12:20	84N	18:34	286	19:22
2024	May	03	(Fri)	05:19	06:06	74	12:20	84N	18:34	286	19:22
2024	May	04	(Sat)	05:19	06:06	74	12:20	84N	18:34	287	19:22
2024	May	05	(Sun)	05:18	06:06	73	12:20	83N	18:35	287	19:22
2024	May	06	(Mon)	05:18	06:06	73	12:20	83N	18:35	287	19:22
2024	May	07	(Tue)	05:18	06:05	73	12:20	83N	18:35	287	19:23
2024	May	08	(Wed)	05:17	06:05	72	12:20	83N	18:35	288	19:23
2024	May	09	(Thu)	05:17	06:05	72	12:20	82N	18:35	288	19:23
2024	May	10	(Fri)	05:17	06:05	72	12:20	82N	18:35	288	19:23
2024	May	11	(Sat)	05:16	06:04	72	12:20	82N	18:35	288	19:23
2024	May	12	(Sun)	05:16	06:04	71	12:20	82N	18:36	289	19:24
2024	May	13	(Mon)	05:16	06:04	71	12:20	81N	18:36	289	19:24
2024	May	14	(Tue)	05:16	06:04	71	12:20	81N	18:36	289	19:24
2024	May	15	(Wed)	05:15	06:04	71	12:20	81N	18:36	289	19:24
2024	May	16	(Thu)	05:15	06:03	70	12:20	81N	18:36	290	19:25
2024	May	17	(Fri)	05:15	06:03	70	12:20	80N	18:37	290	19:25
2024	May	18	(Sat)	05:15	06:03	70	12:20	80N	18:37	290	19:25
2024	May	19	(Sun)	05:15	06:03	70	12:20	80N	18:37	290	19:26
2024	May	20	(Mon)	05:14	06:03	70	12:20	80N	18:37	291	19:26
2024	May	21	(Tue)	05:14	06:03	69	12:20	80N	18:37	291	19:26
2024	May	22	(Wed)	05:14	06:03	69	12:20	79N	18:38	291	19:26
2024	May	23	(Thu)	05:14	06:03	69	12:20	79N	18:38	291	19:27
2024	May	24	(Fri)	05:14	06:03	69	12:20	79N	18:38	291	19:27
2024	May	25	(Sat)	05:14	06:03	69	12:20	79N	18:38	292	19:27
2024	May	26	(Sun)	05:14	06:03	68	12:21	79N	18:39	292	19:28
2024	May	27	(Mon)	05:13	06:03	68	12:21	78N	18:39	292	19:28
2024	May	28	(Tue)	05:13	06:03	68	12:21	78N	18:39	292	19:28
2024	May	29	(Wed)	05:13	06:03	68	12:21	78N	18:39	292	19:29
2024	May	30	(Thu)	05:13	06:03	68	12:21	78N	18:40	292	19:29
2024	May	31	(Fri)	05:13	06:03	68	12:21	78N	18:40	292	19:29
2024	Jun	01	(Sat)	05:13	06:03	67	12:21	78N	18:40	293	19:30
2024	Jun	02	(Sun)	05:13	06:03	67	12:22	78N	18:40	293	19:30
2024	Jun	03	(Mon)	05:13	06:03	67	12:22	77N	18:41	293	19:30
2024	Jun	04	(Tue)	05:13	06:03	67	12:22	77N	18:41	293	19:30
2024	Jun	05	(Wed)	05:13	06:03	67	12:22	77N	18:41	293	19:31
2024	Jun	06	(Thu)	05:13	06:03	67	12:22	77N	18:41	293	19:31
2024	Jun	07	(Fri)	05:14	06:03	67	12:22	77N	18:42	293	19:31
2024	Jun	08	(Sat)	05:14	06:03	67	12:23	77N	18:42	293	19:32
2024	Jun	09	(Sun)	05:14	06:03	67	12:23	77N	18:42	293	19:32
2024	Jun	10	(Mon)	05:14	06:04	67	12:23	77N	18:42	294	19:32
2024	Jun	11	(Tue)	05:14	06:04	66	12:23	77N	18:43	294	19:33
2024	Jun	12	(Wed)	05:14	06:04	66	12:23	77N	18:43	294	19:33
2024	Jun	13	(Thu)	05:14	06:04	66	12:24	77N	18:43	294	19:33
2024	Jun	14	(Fri)	05:14	06:04	66	12:24	77N	18:43	294	19:33
2024	Jun	15	(Sat)	05:14	06:04	66	12:24	77N	18:44	294	19:34
2024	Jun	16	(Sun)	05:15	06:05	66	12:24	76N	18:44	294	19:34
2024	Jun	17	(Mon)	05:15	06:05	66	12:24	76N	18:44	294	19:34
2024	Jun	18	(Tue)	05:15	06:05	66	12:25	76N	18:44	294	19:34
2024	Jun	19	(Wed)	05:15	06:05	66	12:25	76N	18:45	294	19:35
2024	Jun	20	(Thu)	05:15	06:05	66	12:25	76N	18:45	294	19:35
2024	Jun	21	(Fri)	05:16	06:06	66	12:25	76N	18:45	294	19:35
2024	Jun	22	(Sat)	05:16	06:06	66	12:26	76N	18:45	294	19:35
2024	Jun	23	(Sun)	05:16	06:06	66	12:26	76N	18:45	294	19:35
2024	Jun	24	(Mon)	05:16	06:06	66	12:26	76N	18:46	294	19:36
2024	Jun	25	(Tue)	05:17	06:07	66	12:26	76N	18:46	294	19:36
2024	Jun	26	(Wed)	05:17	06:07	66	12:26	77N	18:46	294	19:36
2024	Jun	27	(Thu)	05:17	06:07	66	12:27	77N	18:46	294	19:36
2024	Jun	28	(Fri)	05:17	06:07	66	12:27	77N	18:46	294	19:36
2024	Jun	29	(Sat)	05:18	06:07	66	12:27	77N	18:47	294	19:36
2024	Jun	30	(Sun)	05:18	06:08	66	12:27	77N	18:47	294	19:37
2024	Jul	01	(Mon)	05:18	06:08	66	12:27	77N	18:47	294	19:37
2024	Jul	02	(Tue)	05:18	06:08	67	12:28	77N	18:47	293	19:37
2024	Jul	03	(Wed)	05:19	06:08	67	12:28	77N	18:47	293	19:37
2024	Jul	04	(Thu)	05:19	06:09	67	12:28	77N	18:47	293	19:37
2024	Jul	05	(Fri)	05:19	06:09	67	12:28	77N	18:47	293	19:37
2024	Jul	06	(Sat)	05:20	06:09	67	12:28	77N	18:47	293	19:37
2024	Jul	07	(Sun)	05:20	06:09	67	12:28	77N	18:47	293	19:37

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

2024	Sep	13	(Fri)	05:28	06:14	86	12:19	85S	18:25	274	19:10
2024	Sep	14	(Sat)	05:28	06:14	87	12:19	85S	18:24	273	19:10
2024	Sep	15	(Sun)	05:28	06:13	87	12:19	84S	18:24	273	19:09
2024	Sep	16	(Mon)	05:28	06:13	87	12:18	84S	18:23	273	19:08
2024	Sep	17	(Tue)	05:28	06:13	88	12:18	84S	18:22	272	19:08
2024	Sep	18	(Wed)	05:28	06:13	88	12:18	83S	18:22	272	19:07
2024	Sep	19	(Thu)	05:28	06:13	88	12:17	83S	18:21	271	19:06
2024	Sep	20	(Fri)	05:28	06:13	89	12:17	82S	18:21	271	19:06
2024	Sep	21	(Sat)	05:28	06:13	89	12:16	82S	18:20	271	19:05
2024	Sep	22	(Sun)	05:27	06:13	90	12:16	82S	18:19	270	19:05
2024	Sep	23	(Mon)	05:27	06:13	90	12:16	81S	18:19	270	19:04
2024	Sep	24	(Tue)	05:27	06:12	90	12:15	81S	18:18	269	19:03
2024	Sep	25	(Wed)	05:27	06:12	91	12:15	81S	18:18	269	19:03
2024	Sep	26	(Thu)	05:27	06:12	91	12:15	80S	18:17	269	19:02
2024	Sep	27	(Fri)	05:27	06:12	92	12:14	80S	18:16	268	19:02
2024	Sep	28	(Sat)	05:27	06:12	92	12:14	79S	18:16	268	19:01
2024	Sep	29	(Sun)	05:27	06:12	92	12:14	79S	18:15	267	19:00
2024	Sep	30	(Mon)	05:27	06:12	93	12:13	79S	18:15	267	19:00
2024	Oct	01	(Tue)	05:27	06:12	93	12:13	78S	18:14	267	18:59
2024	Oct	02	(Wed)	05:27	06:12	94	12:13	78S	18:14	266	18:59
2024	Oct	03	(Thu)	05:26	06:12	94	12:12	77S	18:13	266	18:58
2024	Oct	04	(Fri)	05:26	06:12	94	12:12	77S	18:12	265	18:58
2024	Oct	05	(Sat)	05:26	06:12	95	12:12	77S	18:12	265	18:57
2024	Oct	06	(Sun)	05:26	06:12	95	12:12	76S	18:11	265	18:57
2024	Oct	07	(Mon)	05:26	06:12	96	12:11	76S	18:11	264	18:56
2024	Oct	08	(Tue)	05:26	06:11	96	12:11	76S	18:10	264	18:56
2024	Oct	09	(Wed)	05:26	06:11	96	12:11	75S	18:10	264	18:55
2024	Oct	10	(Thu)	05:26	06:11	97	12:10	75S	18:09	263	18:55
2024	Oct	11	(Fri)	05:26	06:11	97	12:10	74S	18:09	263	18:54
2024	Oct	12	(Sat)	05:26	06:11	97	12:10	74S	18:08	262	18:54
2024	Oct	13	(Sun)	05:26	06:11	98	12:10	74S	18:08	262	18:53
2024	Oct	14	(Mon)	05:26	06:11	98	12:09	73S	18:07	262	18:53
2024	Oct	15	(Tue)	05:26	06:11	99	12:09	73S	18:07	261	18:53
2024	Oct	16	(Wed)	05:26	06:11	99	12:09	73S	18:06	261	18:52
2024	Oct	17	(Thu)	05:26	06:11	99	12:09	72S	18:06	260	18:52
2024	Oct	18	(Fri)	05:26	06:12	100	12:09	72S	18:06	260	18:51
2024	Oct	19	(Sat)	05:26	06:12	100	12:08	71S	18:05	260	18:51
2024	Oct	20	(Sun)	05:26	06:12	100	12:08	71S	18:05	259	18:51
2024	Oct	21	(Mon)	05:26	06:12	101	12:08	71S	18:04	259	18:50
2024	Oct	22	(Tue)	05:26	06:12	101	12:08	70S	18:04	259	18:50
2024	Oct	23	(Wed)	05:26	06:12	101	12:08	70S	18:04	258	18:50
2024	Oct	24	(Thu)	05:26	06:12	102	12:08	70S	18:03	258	18:49
2024	Oct	25	(Fri)	05:26	06:12	102	12:08	69S	18:03	258	18:49
2024	Oct	26	(Sat)	05:26	06:12	103	12:07	69S	18:03	257	18:49
2024	Oct	27	(Sun)	05:26	06:12	103	12:07	69S	18:02	257	18:49
2024	Oct	28	(Mon)	05:26	06:12	103	12:07	68S	18:02	257	18:48
2024	Oct	29	(Tue)	05:26	06:13	104	12:07	68S	18:02	256	18:48
2024	Oct	30	(Wed)	05:26	06:13	104	12:07	68S	18:01	256	18:48
2024	Oct	31	(Thu)	05:26	06:13	104	12:07	67S	18:01	256	18:48
2024	Nov	01	(Fri)	05:27	06:13	105	12:07	67S	18:01	255	18:47
2024	Nov	02	(Sat)	05:27	06:13	105	12:07	67S	18:01	255	18:47
2024	Nov	03	(Sun)	05:27	06:13	105	12:07	66S	18:00	255	18:47
2024	Nov	04	(Mon)	05:27	06:14	106	12:07	66S	18:00	254	18:47
2024	Nov	05	(Tue)	05:27	06:14	106	12:07	66S	18:00	254	18:47
2024	Nov	06	(Wed)	05:27	06:14	106	12:07	65S	18:00	254	18:47
2024	Nov	07	(Thu)	05:27	06:14	106	12:07	65S	18:00	253	18:47
2024	Nov	08	(Fri)	05:28	06:15	107	12:07	65S	18:00	253	18:47
2024	Nov	09	(Sat)	05:28	06:15	107	12:07	65S	18:00	253	18:47
2024	Nov	10	(Sun)	05:28	06:15	107	12:07	64S	17:59	253	18:47
2024	Nov	11	(Mon)	05:28	06:16	108	12:08	64S	17:59	252	18:47
2024	Nov	12	(Tue)	05:29	06:16	108	12:08	64S	17:59	252	18:47
2024	Nov	13	(Wed)	05:29	06:16	108	12:08	63S	17:59	252	18:47
2024	Nov	14	(Thu)	05:29	06:17	108	12:08	63S	17:59	251	18:47
2024	Nov	15	(Fri)	05:29	06:17	109	12:08	63S	17:59	251	18:47
2024	Nov	16	(Sat)	05:30	06:17	109	12:08	63S	17:59	251	18:47
2024	Nov	17	(Sun)	05:30	06:18	109	12:08	62S	17:59	251	18:47
2024	Nov	18	(Mon)	05:30	06:18	109	12:09	62S	17:59	250	18:47

2024	Nov	19	(Tue)	05:31	06:18	110	12:09	62S	17:59	250	18:47
2024	Nov	20	(Wed)	05:31	06:19	110	12:09	62S	17:59	250	18:47
2024	Nov	21	(Thu)	05:31	06:19	110	12:09	62S	18:00	250	18:48
2024	Nov	22	(Fri)	05:32	06:20	110	12:10	61S	18:00	250	18:48
2024	Nov	23	(Sat)	05:32	06:20	111	12:10	61S	18:00	249	18:48
2024	Nov	24	(Sun)	05:32	06:20	111	12:10	61S	18:00	249	18:48
2024	Nov	25	(Mon)	05:33	06:21	111	12:10	61S	18:00	249	18:48
2024	Nov	26	(Tue)	05:33	06:21	111	12:11	61S	18:00	249	18:49
2024	Nov	27	(Wed)	05:33	06:22	111	12:11	60S	18:01	249	18:49
2024	Nov	28	(Thu)	05:34	06:22	111	12:11	60S	18:01	248	18:49
2024	Nov	29	(Fri)	05:34	06:23	112	12:12	60S	18:01	248	18:49
2024	Nov	30	(Sat)	05:35	06:23	112	12:12	60S	18:01	248	18:50
2024	Dec	01	(Sun)	05:35	06:24	112	12:13	60S	18:01	248	18:50
2024	Dec	02	(Mon)	05:36	06:24	112	12:13	60S	18:02	248	18:50
2024	Dec	03	(Tue)	05:36	06:25	112	12:13	59S	18:02	248	18:51
2024	Dec	04	(Wed)	05:36	06:25	112	12:14	59S	18:02	248	18:51
2024	Dec	05	(Thu)	05:37	06:26	113	12:14	59S	18:03	247	18:51
2024	Dec	06	(Fri)	05:37	06:26	113	12:15	59S	18:03	247	18:52
2024	Dec	07	(Sat)	05:38	06:27	113	12:15	59S	18:03	247	18:52
2024	Dec	08	(Sun)	05:38	06:27	113	12:15	59S	18:04	247	18:53
2024	Dec	09	(Mon)	05:39	06:28	113	12:16	59S	18:04	247	18:53
2024	Dec	10	(Tue)	05:39	06:28	113	12:16	59S	18:04	247	18:53
2024	Dec	11	(Wed)	05:40	06:29	113	12:17	59S	18:05	247	18:54
2024	Dec	12	(Thu)	05:40	06:29	113	12:17	58S	18:05	247	18:54
2024	Dec	13	(Fri)	05:41	06:30	113	12:18	58S	18:06	247	18:55
2024	Dec	14	(Sat)	05:41	06:30	113	12:18	58S	18:06	247	18:55
2024	Dec	15	(Sun)	05:42	06:31	113	12:19	58S	18:07	247	18:56
2024	Dec	16	(Mon)	05:42	06:31	113	12:19	58S	18:07	246	18:56
2024	Dec	17	(Tue)	05:43	06:32	114	12:20	58S	18:08	246	18:57
2024	Dec	18	(Wed)	05:43	06:32	114	12:20	58S	18:08	246	18:57
2024	Dec	19	(Thu)	05:44	06:33	114	12:21	58S	18:08	246	18:58
2024	Dec	20	(Fri)	05:44	06:33	114	12:21	58S	18:09	246	18:58
2024	Dec	21	(Sat)	05:45	06:34	114	12:22	58S	18:09	246	18:59
2024	Dec	22	(Sun)	05:45	06:34	114	12:22	58S	18:10	246	18:59
2024	Dec	23	(Mon)	05:46	06:35	114	12:23	58S	18:10	246	19:00
2024	Dec	24	(Tue)	05:46	06:35	114	12:23	58S	18:11	246	19:00
2024	Dec	25	(Wed)	05:47	06:36	114	12:24	58S	18:11	246	19:01
2024	Dec	26	(Thu)	05:47	06:36	114	12:24	58S	18:12	246	19:01
2024	Dec	27	(Fri)	05:48	06:37	113	12:25	58S	18:13	247	19:02
2024	Dec	28	(Sat)	05:48	06:37	113	12:25	58S	18:13	247	19:02
2024	Dec	29	(Sun)	05:49	06:38	113	12:26	58S	18:14	247	19:03
2024	Dec	30	(Mon)	05:49	06:38	113	12:26	58S	18:14	247	19:03
2024	Dec	31	(Tue)	05:50	06:38	113	12:27	59S	18:15	247	19:04

Sun

VTDB

Location: E 99°08'00.0", N 9°08'00.0", 20m
(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)	06:16	06:39	113	12:27	59S	18:15	247	18:37
2024	Jan	02	(Tue)	06:16	06:39	113	12:27	59S	18:15	247	18:38
2024	Jan	03	(Wed)	06:17	06:39	113	12:28	59S	18:16	247	18:39
2024	Jan	04	(Thu)	06:17	06:40	113	12:28	59S	18:16	247	18:39
2024	Jan	05	(Fri)	06:18	06:40	113	12:29	59S	18:17	247	18:40
2024	Jan	06	(Sat)	06:18	06:41	113	12:29	59S	18:17	247	18:40
2024	Jan	07	(Sun)	06:18	06:41	113	12:29	59S	18:18	247	18:41
2024	Jan	08	(Mon)	06:19	06:41	112	12:30	59S	18:18	248	18:41
2024	Jan	09	(Tue)	06:19	06:42	112	12:30	59S	18:19	248	18:42
2024	Jan	10	(Wed)	06:19	06:42	112	12:31	60S	18:20	248	18:42
2024	Jan	11	(Thu)	06:20	06:42	112	12:31	60S	18:20	248	18:43

2024	Jan	12	(Fri)	06:20	06:42	112	12:31	60S	18:21	248	18:43
2024	Jan	13	(Sat)	06:20	06:43	112	12:32	60S	18:21	248	18:44
2024	Jan	14	(Sun)	06:21	06:43	112	12:32	60S	18:22	249	18:44
2024	Jan	15	(Mon)	06:21	06:43	111	12:33	60S	18:22	249	18:44
2024	Jan	16	(Tue)	06:21	06:43	111	12:33	61S	18:23	249	18:45
2024	Jan	17	(Wed)	06:21	06:44	111	12:33	61S	18:23	249	18:45
2024	Jan	18	(Thu)	06:22	06:44	111	12:34	61S	18:23	249	18:46
2024	Jan	19	(Fri)	06:22	06:44	111	12:34	61S	18:24	249	18:46
2024	Jan	20	(Sat)	06:22	06:44	110	12:34	61S	18:24	250	18:47
2024	Jan	21	(Sun)	06:22	06:44	110	12:35	62S	18:25	250	18:47
2024	Jan	22	(Mon)	06:22	06:44	110	12:35	62S	18:25	250	18:47
2024	Jan	23	(Tue)	06:22	06:45	110	12:35	62S	18:26	250	18:48
2024	Jan	24	(Wed)	06:23	06:45	109	12:35	62S	18:26	251	18:48
2024	Jan	25	(Thu)	06:23	06:45	109	12:36	62S	18:27	251	18:49
2024	Jan	26	(Fri)	06:23	06:45	109	12:36	63S	18:27	251	18:49
2024	Jan	27	(Sat)	06:23	06:45	109	12:36	63S	18:27	251	18:49
2024	Jan	28	(Sun)	06:23	06:45	108	12:36	63S	18:28	252	18:50
2024	Jan	29	(Mon)	06:23	06:45	108	12:36	64S	18:28	252	18:50
2024	Jan	30	(Tue)	06:23	06:45	108	12:37	64S	18:28	252	18:50
2024	Jan	31	(Wed)	06:23	06:45	108	12:37	64S	18:29	252	18:51
2024	Feb	01	(Thu)	06:23	06:45	107	12:37	64S	18:29	253	18:51
2024	Feb	02	(Fri)	06:23	06:45	107	12:37	65S	18:29	253	18:51
2024	Feb	03	(Sat)	06:23	06:45	107	12:37	65S	18:30	253	18:52
2024	Feb	04	(Sun)	06:23	06:45	107	12:37	65S	18:30	254	18:52
2024	Feb	05	(Mon)	06:23	06:45	106	12:37	66S	18:30	254	18:52
2024	Feb	06	(Tue)	06:23	06:44	106	12:37	66S	18:31	254	18:52
2024	Feb	07	(Wed)	06:23	06:44	106	12:38	66S	18:31	255	18:53
2024	Feb	08	(Thu)	06:22	06:44	105	12:38	66S	18:31	255	18:53
2024	Feb	09	(Fri)	06:22	06:44	105	12:38	67S	18:31	255	18:53
2024	Feb	10	(Sat)	06:22	06:44	105	12:38	67S	18:32	256	18:53
2024	Feb	11	(Sun)	06:22	06:44	104	12:38	67S	18:32	256	18:53
2024	Feb	12	(Mon)	06:22	06:43	104	12:38	68S	18:32	256	18:54
2024	Feb	13	(Tue)	06:22	06:43	104	12:38	68S	18:32	257	18:54
2024	Feb	14	(Wed)	06:21	06:43	103	12:38	68S	18:33	257	18:54
2024	Feb	15	(Thu)	06:21	06:43	103	12:38	69S	18:33	257	18:54
2024	Feb	16	(Fri)	06:21	06:42	103	12:38	69S	18:33	258	18:54
2024	Feb	17	(Sat)	06:21	06:42	102	12:37	69S	18:33	258	18:54
2024	Feb	18	(Sun)	06:20	06:42	102	12:37	70S	18:33	258	18:55
2024	Feb	19	(Mon)	06:20	06:41	102	12:37	70S	18:33	259	18:55
2024	Feb	20	(Tue)	06:20	06:41	101	12:37	70S	18:33	259	18:55
2024	Feb	21	(Wed)	06:20	06:41	101	12:37	71S	18:34	259	18:55
2024	Feb	22	(Thu)	06:19	06:40	100	12:37	71S	18:34	260	18:55
2024	Feb	23	(Fri)	06:19	06:40	100	12:37	72S	18:34	260	18:55
2024	Feb	24	(Sat)	06:18	06:40	100	12:37	72S	18:34	260	18:55
2024	Feb	25	(Sun)	06:18	06:39	99	12:37	72S	18:34	261	18:55
2024	Feb	26	(Mon)	06:18	06:39	99	12:36	73S	18:34	261	18:55
2024	Feb	27	(Tue)	06:17	06:39	99	12:36	73S	18:34	262	18:55
2024	Feb	28	(Wed)	06:17	06:38	98	12:36	73S	18:34	262	18:55
2024	Feb	29	(Thu)	06:17	06:38	98	12:36	74S	18:34	262	18:55
2024	Mar	01	(Fri)	06:16	06:37	97	12:36	74S	18:34	263	18:55
2024	Mar	02	(Sat)	06:16	06:37	97	12:36	75S	18:34	263	18:55
2024	Mar	03	(Sun)	06:15	06:36	97	12:35	75S	18:34	264	18:55
2024	Mar	04	(Mon)	06:15	06:36	96	12:35	75S	18:34	264	18:55
2024	Mar	05	(Tue)	06:14	06:35	96	12:35	76S	18:34	264	18:56
2024	Mar	06	(Wed)	06:14	06:35	96	12:35	76S	18:35	265	18:56
2024	Mar	07	(Thu)	06:13	06:34	95	12:34	76S	18:35	265	18:56
2024	Mar	08	(Fri)	06:13	06:34	95	12:34	77S	18:35	265	18:56
2024	Mar	09	(Sat)	06:12	06:33	94	12:34	77S	18:35	266	18:55
2024	Mar	10	(Sun)	06:12	06:33	94	12:34	78S	18:35	266	18:55
2024	Mar	11	(Mon)	06:11	06:32	94	12:33	78S	18:35	267	18:55
2024	Mar	12	(Tue)	06:11	06:32	93	12:33	78S	18:34	267	18:55
2024	Mar	13	(Wed)	06:10	06:31	93	12:33	79S	18:34	267	18:55
2024	Mar	14	(Thu)	06:10	06:31	92	12:33	79S	18:34	268	18:55
2024	Mar	15	(Fri)	06:09	06:30	92	12:32	80S	18:34	268	18:55
2024	Mar	16	(Sat)	06:09	06:30	92	12:32	80S	18:34	269	18:55
2024	Mar	17	(Sun)	06:08	06:29	91	12:32	80S	18:34	269	18:55
2024	Mar	18	(Mon)	06:08	06:29	91	12:31	81S	18:34	269	18:55

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

2024	May	25	(Sat)	05:40	06:03	69	12:20	79N	18:38	292	19:01
2024	May	26	(Sun)	05:40	06:03	68	12:21	79N	18:39	292	19:01
2024	May	27	(Mon)	05:40	06:03	68	12:21	78N	18:39	292	19:01
2024	May	28	(Tue)	05:40	06:03	68	12:21	78N	18:39	292	19:02
2024	May	29	(Wed)	05:40	06:03	68	12:21	78N	18:39	292	19:02
2024	May	30	(Thu)	05:40	06:03	68	12:21	78N	18:40	292	19:02
2024	May	31	(Fri)	05:40	06:03	68	12:21	78N	18:40	292	19:03
2024	Jun	01	(Sat)	05:40	06:03	67	12:21	78N	18:40	293	19:03
2024	Jun	02	(Sun)	05:40	06:03	67	12:22	78N	18:40	293	19:03
2024	Jun	03	(Mon)	05:40	06:03	67	12:22	77N	18:41	293	19:03
2024	Jun	04	(Tue)	05:40	06:03	67	12:22	77N	18:41	293	19:04
2024	Jun	05	(Wed)	05:40	06:03	67	12:22	77N	18:41	293	19:04
2024	Jun	06	(Thu)	05:40	06:03	67	12:22	77N	18:41	293	19:04
2024	Jun	07	(Fri)	05:40	06:03	67	12:22	77N	18:42	293	19:05
2024	Jun	08	(Sat)	05:40	06:03	67	12:23	77N	18:42	293	19:05
2024	Jun	09	(Sun)	05:41	06:03	67	12:23	77N	18:42	293	19:05
2024	Jun	10	(Mon)	05:41	06:04	67	12:23	77N	18:42	294	19:05
2024	Jun	11	(Tue)	05:41	06:04	66	12:23	77N	18:43	294	19:06
2024	Jun	12	(Wed)	05:41	06:04	66	12:23	77N	18:43	294	19:06
2024	Jun	13	(Thu)	05:41	06:04	66	12:24	77N	18:43	294	19:06
2024	Jun	14	(Fri)	05:41	06:04	66	12:24	77N	18:43	294	19:06
2024	Jun	15	(Sat)	05:41	06:04	66	12:24	77N	18:44	294	19:07
2024	Jun	16	(Sun)	05:42	06:05	66	12:24	76N	18:44	294	19:07
2024	Jun	17	(Mon)	05:42	06:05	66	12:24	76N	18:44	294	19:07
2024	Jun	18	(Tue)	05:42	06:05	66	12:25	76N	18:44	294	19:07
2024	Jun	19	(Wed)	05:42	06:05	66	12:25	76N	18:45	294	19:08
2024	Jun	20	(Thu)	05:42	06:05	66	12:25	76N	18:45	294	19:08
2024	Jun	21	(Fri)	05:43	06:06	66	12:25	76N	18:45	294	19:08
2024	Jun	22	(Sat)	05:43	06:06	66	12:26	76N	18:45	294	19:08
2024	Jun	23	(Sun)	05:43	06:06	66	12:26	76N	18:45	294	19:08
2024	Jun	24	(Mon)	05:43	06:06	66	12:26	76N	18:46	294	19:09
2024	Jun	25	(Tue)	05:44	06:07	66	12:26	76N	18:46	294	19:09
2024	Jun	26	(Wed)	05:44	06:07	66	12:26	77N	18:46	294	19:09
2024	Jun	27	(Thu)	05:44	06:07	66	12:27	77N	18:46	294	19:09
2024	Jun	28	(Fri)	05:44	06:07	66	12:27	77N	18:46	294	19:09
2024	Jun	29	(Sat)	05:45	06:07	66	12:27	77N	18:47	294	19:09
2024	Jun	30	(Sun)	05:45	06:08	66	12:27	77N	18:47	294	19:10
2024	Jul	01	(Mon)	05:45	06:08	66	12:27	77N	18:47	294	19:10
2024	Jul	02	(Tue)	05:45	06:08	67	12:28	77N	18:47	293	19:10
2024	Jul	03	(Wed)	05:46	06:08	67	12:28	77N	18:47	293	19:10
2024	Jul	04	(Thu)	05:46	06:09	67	12:28	77N	18:47	293	19:10
2024	Jul	05	(Fri)	05:46	06:09	67	12:28	77N	18:47	293	19:10
2024	Jul	06	(Sat)	05:46	06:09	67	12:28	77N	18:47	293	19:10
2024	Jul	07	(Sun)	05:47	06:09	67	12:28	77N	18:47	293	19:10
2024	Jul	08	(Mon)	05:47	06:10	67	12:29	77N	18:47	293	19:10
2024	Jul	09	(Tue)	05:47	06:10	67	12:29	78N	18:48	293	19:10
2024	Jul	10	(Wed)	05:47	06:10	67	12:29	78N	18:48	293	19:10
2024	Jul	11	(Thu)	05:48	06:10	67	12:29	78N	18:48	292	19:10
2024	Jul	12	(Fri)	05:48	06:11	68	12:29	78N	18:48	292	19:10
2024	Jul	13	(Sat)	05:48	06:11	68	12:29	78N	18:48	292	19:10
2024	Jul	14	(Sun)	05:48	06:11	68	12:29	78N	18:48	292	19:10
2024	Jul	15	(Mon)	05:49	06:11	68	12:30	78N	18:48	292	19:10
2024	Jul	16	(Tue)	05:49	06:12	68	12:30	79N	18:48	292	19:10
2024	Jul	17	(Wed)	05:49	06:12	68	12:30	79N	18:48	291	19:10
2024	Jul	18	(Thu)	05:49	06:12	69	12:30	79N	18:47	291	19:10
2024	Jul	19	(Fri)	05:50	06:12	69	12:30	79N	18:47	291	19:10
2024	Jul	20	(Sat)	05:50	06:12	69	12:30	79N	18:47	291	19:10
2024	Jul	21	(Sun)	05:50	06:13	69	12:30	79N	18:47	291	19:10
2024	Jul	22	(Mon)	05:50	06:13	69	12:30	80N	18:47	291	19:09
2024	Jul	23	(Tue)	05:51	06:13	70	12:30	80N	18:47	290	19:09
2024	Jul	24	(Wed)	05:51	06:13	70	12:30	80N	18:47	290	19:09
2024	Jul	25	(Thu)	05:51	06:13	70	12:30	80N	18:47	290	19:09
2024	Jul	26	(Fri)	05:51	06:14	70	12:30	81N	18:46	290	19:09
2024	Jul	27	(Sat)	05:51	06:14	70	12:30	81N	18:46	289	19:09
2024	Jul	28	(Sun)	05:52	06:14	71	12:30	81N	18:46	289	19:08
2024	Jul	29	(Mon)	05:52	06:14	71	12:30	81N	18:46	289	19:08
2024	Jul	30	(Tue)	05:52	06:14	71	12:30	81N	18:46	289	19:08

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

2024	Oct	06	(Sun)	05:51	06:12	95	12:12	76S	18:11	265	18:32
2024	Oct	07	(Mon)	05:51	06:12	96	12:11	76S	18:11	264	18:32
2024	Oct	08	(Tue)	05:50	06:11	96	12:11	76S	18:10	264	18:31
2024	Oct	09	(Wed)	05:50	06:11	96	12:11	75S	18:10	264	18:31
2024	Oct	10	(Thu)	05:50	06:11	97	12:10	75S	18:09	263	18:30
2024	Oct	11	(Fri)	05:50	06:11	97	12:10	74S	18:09	263	18:30
2024	Oct	12	(Sat)	05:50	06:11	97	12:10	74S	18:08	262	18:29
2024	Oct	13	(Sun)	05:50	06:11	98	12:10	74S	18:08	262	18:29
2024	Oct	14	(Mon)	05:50	06:11	98	12:09	73S	18:07	262	18:28
2024	Oct	15	(Tue)	05:50	06:11	99	12:09	73S	18:07	261	18:28
2024	Oct	16	(Wed)	05:50	06:11	99	12:09	73S	18:06	261	18:28
2024	Oct	17	(Thu)	05:50	06:11	99	12:09	72S	18:06	260	18:27
2024	Oct	18	(Fri)	05:50	06:12	100	12:09	72S	18:06	260	18:27
2024	Oct	19	(Sat)	05:50	06:12	100	12:08	71S	18:05	260	18:26
2024	Oct	20	(Sun)	05:50	06:12	100	12:08	71S	18:05	259	18:26
2024	Oct	21	(Mon)	05:50	06:12	101	12:08	71S	18:04	259	18:26
2024	Oct	22	(Tue)	05:50	06:12	101	12:08	70S	18:04	259	18:25
2024	Oct	23	(Wed)	05:51	06:12	101	12:08	70S	18:04	258	18:25
2024	Oct	24	(Thu)	05:51	06:12	102	12:08	70S	18:03	258	18:25
2024	Oct	25	(Fri)	05:51	06:12	102	12:08	69S	18:03	258	18:24
2024	Oct	26	(Sat)	05:51	06:12	103	12:07	69S	18:03	257	18:24
2024	Oct	27	(Sun)	05:51	06:12	103	12:07	69S	18:02	257	18:24
2024	Oct	28	(Mon)	05:51	06:12	103	12:07	68S	18:02	257	18:23
2024	Oct	29	(Tue)	05:51	06:13	104	12:07	68S	18:02	256	18:23
2024	Oct	30	(Wed)	05:51	06:13	104	12:07	68S	18:01	256	18:23
2024	Oct	31	(Thu)	05:51	06:13	104	12:07	67S	18:01	256	18:23
2024	Nov	01	(Fri)	05:52	06:13	105	12:07	67S	18:01	255	18:22
2024	Nov	02	(Sat)	05:52	06:13	105	12:07	67S	18:01	255	18:22
2024	Nov	03	(Sun)	05:52	06:13	105	12:07	66S	18:00	255	18:22
2024	Nov	04	(Mon)	05:52	06:14	106	12:07	66S	18:00	254	18:22
2024	Nov	05	(Tue)	05:52	06:14	106	12:07	66S	18:00	254	18:22
2024	Nov	06	(Wed)	05:52	06:14	106	12:07	65S	18:00	254	18:22
2024	Nov	07	(Thu)	05:53	06:14	106	12:07	65S	18:00	253	18:22
2024	Nov	08	(Fri)	05:53	06:15	107	12:07	65S	18:00	253	18:21
2024	Nov	09	(Sat)	05:53	06:15	107	12:07	65S	18:00	253	18:21
2024	Nov	10	(Sun)	05:53	06:15	107	12:07	64S	17:59	253	18:21
2024	Nov	11	(Mon)	05:54	06:16	108	12:08	64S	17:59	252	18:21
2024	Nov	12	(Tue)	05:54	06:16	108	12:08	64S	17:59	252	18:21
2024	Nov	13	(Wed)	05:54	06:16	108	12:08	63S	17:59	252	18:21
2024	Nov	14	(Thu)	05:55	06:17	108	12:08	63S	17:59	251	18:21
2024	Nov	15	(Fri)	05:55	06:17	109	12:08	63S	17:59	251	18:21
2024	Nov	16	(Sat)	05:55	06:17	109	12:08	63S	17:59	251	18:21
2024	Nov	17	(Sun)	05:55	06:18	109	12:08	62S	17:59	251	18:21
2024	Nov	18	(Mon)	05:56	06:18	109	12:09	62S	17:59	250	18:21
2024	Nov	19	(Tue)	05:56	06:18	110	12:09	62S	17:59	250	18:22
2024	Nov	20	(Wed)	05:57	06:19	110	12:09	62S	17:59	250	18:22
2024	Nov	21	(Thu)	05:57	06:19	110	12:09	62S	18:00	250	18:22
2024	Nov	22	(Fri)	05:57	06:20	110	12:10	61S	18:00	250	18:22
2024	Nov	23	(Sat)	05:58	06:20	111	12:10	61S	18:00	249	18:22
2024	Nov	24	(Sun)	05:58	06:20	111	12:10	61S	18:00	249	18:22
2024	Nov	25	(Mon)	05:58	06:21	111	12:10	61S	18:00	249	18:22
2024	Nov	26	(Tue)	05:59	06:21	111	12:11	61S	18:00	249	18:23
2024	Nov	27	(Wed)	05:59	06:22	111	12:11	60S	18:01	249	18:23
2024	Nov	28	(Thu)	06:00	06:22	111	12:11	60S	18:01	248	18:23
2024	Nov	29	(Fri)	06:00	06:23	112	12:12	60S	18:01	248	18:23
2024	Nov	30	(Sat)	06:01	06:23	112	12:12	60S	18:01	248	18:24
2024	Dec	01	(Sun)	06:01	06:24	112	12:13	60S	18:01	248	18:24
2024	Dec	02	(Mon)	06:02	06:24	112	12:13	60S	18:02	248	18:24
2024	Dec	03	(Tue)	06:02	06:25	112	12:13	59S	18:02	248	18:25
2024	Dec	04	(Wed)	06:03	06:25	112	12:14	59S	18:02	248	18:25
2024	Dec	05	(Thu)	06:03	06:26	113	12:14	59S	18:03	247	18:25
2024	Dec	06	(Fri)	06:03	06:26	113	12:15	59S	18:03	247	18:26
2024	Dec	07	(Sat)	06:04	06:27	113	12:15	59S	18:03	247	18:26
2024	Dec	08	(Sun)	06:04	06:27	113	12:15	59S	18:04	247	18:26
2024	Dec	09	(Mon)	06:05	06:28	113	12:16	59S	18:04	247	18:27
2024	Dec	10	(Tue)	06:05	06:28	113	12:16	59S	18:04	247	18:27
2024	Dec	11	(Wed)	06:06	06:29	113	12:17	59S	18:05	247	18:28

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

Moon

VTDB

Location: E 99°08'00.0", N 9°08'00.0", 20m
(Longitude referred to Greenwich meridian)

Time Zone: 7h 00m east of Greenwich

Date				Rise		Az.	Transit Alt.			Set		Az.
(Zone)												
				h	m	°				h	m	°
2024	Jan	01	(Mon)	22:39		81	04:15 87N			10:33		282
2024	Jan	02	(Tue)	23:23		86	04:55 89S			11:09		276
2024	Jan	03	(Wed)				05:34 84S			11:44		271
2024	Jan	04	(Thu)	00:05		92	06:13 78S			12:20		265
2024	Jan	05	(Fri)	00:49		98	06:54 72S			12:57		259
2024	Jan	06	(Sat)	01:35		104	07:37 66S			13:36		254
2024	Jan	07	(Sun)	02:25		109	08:23 61S			14:21		249
2024	Jan	08	(Mon)	03:19		113	09:15 57S			15:11		245
2024	Jan	09	(Tue)	04:17		117	10:12 54S			16:07		242
2024	Jan	10	(Wed)	05:19		118	11:14 53S			17:08		241
2024	Jan	11	(Thu)	06:23		118	12:18 54S			18:13		243
2024	Jan	12	(Fri)	07:24		116	13:21 57S			19:18		246
2024	Jan	13	(Sat)	08:21		111	14:20 61S			20:21		251
2024	Jan	14	(Sun)	09:13		106	15:15 67S			21:19		258
2024	Jan	15	(Mon)	10:01		99	16:07 74S			22:15		265
2024	Jan	16	(Tue)	10:45		92	16:56 81S			23:08		272
2024	Jan	17	(Wed)	11:29		85	17:43 88S					
2024	Jan	18	(Thu)	12:12		78	18:31 87N			00:00		279
2024	Jan	19	(Fri)	12:57		72	19:21 81N			00:53		285
2024	Jan	20	(Sat)	13:44		68	20:12 76N			01:47		290
2024	Jan	21	(Sun)	14:35		64	21:06 73N			02:42		295
2024	Jan	22	(Mon)	15:28		62	22:01 72N			03:39		297
2024	Jan	23	(Tue)	16:23		61	22:56 72N			04:35		299
2024	Jan	24	(Wed)	17:18		63	23:50 73N			05:30		298
2024	Jan	25	(Thu)	18:11		65				06:21		296
2024	Jan	26	(Fri)	19:02		69	00:40 76N			07:08		293
2024	Jan	27	(Sat)	19:50		74	01:27 80N			07:51		289
2024	Jan	28	(Sun)	20:35		79	02:11 85N			08:30		284
2024	Jan	29	(Mon)	21:18		84	02:52 90N			09:07		278
2024	Jan	30	(Tue)	22:01		90	03:32 86S			09:43		273
2024	Jan	31	(Wed)	22:44		96	04:10 80S			10:18		267
2024	Feb	01	(Thu)	23:28		102	04:50 74S			10:53		261
2024	Feb	02	(Fri)				05:31 68S			11:31		256
2024	Feb	03	(Sat)	00:15		107	06:15 63S			12:12		251
2024	Feb	04	(Sun)	01:06		112	07:03 59S			12:58		246

2024 Feb 05 (Mon)	02:01 116	07:56 55S	13:50 243
2024 Feb 06 (Tue)	03:00 118	08:54 53S	14:48 241
2024 Feb 07 (Wed)	04:02 119	09:56 53S	15:51 242
2024 Feb 08 (Thu)	05:04 117	10:59 55S	16:56 244
2024 Feb 09 (Fri)	06:03 114	12:01 59S	18:00 248
2024 Feb 10 (Sat)	06:59 109	12:59 64S	19:02 254
2024 Feb 11 (Sun)	07:50 102	13:54 71S	20:01 261
2024 Feb 12 (Mon)	08:37 95	14:46 78S	20:57 269
2024 Feb 13 (Tue)	09:23 88	15:36 86S	21:52 276
2024 Feb 14 (Wed)	10:08 80	16:26 89N	22:46 283
2024 Feb 15 (Thu)	10:53 74	17:16 83N	23:41 289
2024 Feb 16 (Fri)	11:41 69	18:08 77N	
2024 Feb 17 (Sat)	12:31 65	19:02 74N	00:37 294
2024 Feb 18 (Sun)	13:24 62	19:57 72N	01:34 297
2024 Feb 19 (Mon)	14:18 61	20:52 71N	02:31 299
2024 Feb 20 (Tue)	15:13 62	21:46 72N	03:26 299
2024 Feb 21 (Wed)	16:07 64	22:37 75N	04:18 297
2024 Feb 22 (Thu)	16:58 68	23:24 78N	05:06 294
2024 Feb 23 (Fri)	17:46 72		05:49 290
2024 Feb 24 (Sat)	18:32 77	00:09 83N	06:30 286
2024 Feb 25 (Sun)	19:16 83	00:51 88N	07:07 280
2024 Feb 26 (Mon)	19:59 88	01:30 87S	07:43 275
2024 Feb 27 (Tue)	20:42 94	02:09 82S	08:18 269
2024 Feb 28 (Wed)	21:25 100	02:48 76S	08:53 263
2024 Feb 29 (Thu)	22:11 105	03:28 70S	09:30 257
2024 Mar 01 (Fri)	22:59 110	04:11 65S	10:09 252
2024 Mar 02 (Sat)	23:51 114	04:56 60S	10:52 248
2024 Mar 03 (Sun)		05:46 56S	11:41 244
2024 Mar 04 (Mon)	00:47 117	06:41 54S	12:34 242
2024 Mar 05 (Tue)	01:46 119	07:39 52S	13:33 241
2024 Mar 06 (Wed)	02:46 118	08:40 53S	14:35 242
2024 Mar 07 (Thu)	03:45 116	09:41 56S	15:38 246
2024 Mar 08 (Fri)	04:41 112	10:40 61S	16:41 251
2024 Mar 09 (Sat)	05:34 106	11:36 67S	17:41 257
2024 Mar 10 (Sun)	06:23 99	12:30 74S	18:39 265
2024 Mar 11 (Mon)	07:10 91	13:22 82S	19:35 272
2024 Mar 12 (Tue)	07:57 84	14:13 89S	20:31 280
2024 Mar 13 (Wed)	08:43 77	15:05 85N	21:28 286
2024 Mar 14 (Thu)	09:32 71	15:58 79N	22:26 292
2024 Mar 15 (Fri)	10:23 66	16:53 75N	23:25 296
2024 Mar 16 (Sat)	11:17 63	17:50 72N	
2024 Mar 17 (Sun)	12:12 61	18:46 71N	00:24 298
2024 Mar 18 (Mon)	13:08 61	19:41 72N	01:21 299
2024 Mar 19 (Tue)	14:02 63	20:34 74N	02:14 298
2024 Mar 20 (Wed)	14:54 66	21:22 77N	03:03 295
2024 Mar 21 (Thu)	15:43 70	22:07 81N	03:48 292
2024 Mar 22 (Fri)	16:30 75	22:50 86N	04:30 287
2024 Mar 23 (Sat)	17:14 81	23:30 89S	05:08 282
2024 Mar 24 (Sun)	17:57 86		05:44 276
2024 Mar 25 (Mon)	18:40 92	00:09 84S	06:19 271
2024 Mar 26 (Tue)	19:23 98	00:48 78S	06:54 265
2024 Mar 27 (Wed)	20:08 104	01:28 72S	07:30 259
2024 Mar 28 (Thu)	20:56 109	02:09 66S	08:09 254
2024 Mar 29 (Fri)	21:46 113	02:54 61S	08:51 249
2024 Mar 30 (Sat)	22:40 117	03:42 57S	09:37 245
2024 Mar 31 (Sun)	23:37 119	04:35 54S	10:28 242
2024 Apr 01 (Mon)		05:31 53S	11:23 241
2024 Apr 02 (Tue)	00:36 119	06:29 53S	12:23 242
2024 Apr 03 (Wed)	01:33 117	07:28 55S	13:24 244
2024 Apr 04 (Thu)	02:29 114	08:26 59S	14:24 248
2024 Apr 05 (Fri)	03:21 109	09:21 64S	15:23 254
2024 Apr 06 (Sat)	04:10 103	10:14 71S	16:21 261
2024 Apr 07 (Sun)	04:57 95	11:06 78S	17:17 268
2024 Apr 08 (Mon)	05:43 88	11:57 85S	18:13 276
2024 Apr 09 (Tue)	06:30 81	12:49 89N	19:10 283
2024 Apr 10 (Wed)	07:18 74	13:42 82N	20:08 289
2024 Apr 11 (Thu)	08:09 68	14:38 77N	21:09 294

2024 Apr 12 (Fri)	09:04 64	15:36 73N	22:10 297
2024 Apr 13 (Sat)	10:00 62	16:35 71N	23:10 299
2024 Apr 14 (Sun)	10:58 61	17:32 71N	
2024 Apr 15 (Mon)	11:54 62	18:27 73N	00:06 298
2024 Apr 16 (Tue)	12:48 65	19:18 76N	00:58 296
2024 Apr 17 (Wed)	13:39 69	20:05 80N	01:46 293
2024 Apr 18 (Thu)	14:27 73	20:48 85N	02:28 289
2024 Apr 19 (Fri)	15:12 79	21:29 90N	03:07 284
2024 Apr 20 (Sat)	15:55 84	22:08 86S	03:44 278
2024 Apr 21 (Sun)	16:38 90	22:47 80S	04:19 273
2024 Apr 22 (Mon)	17:21 96	23:26 74S	04:54 267
2024 Apr 23 (Tue)	18:05 102		05:30 261
2024 Apr 24 (Wed)	18:52 107	00:08 68S	06:08 255
2024 Apr 25 (Thu)	19:43 112	00:52 63S	06:49 250
2024 Apr 26 (Fri)	20:36 116	01:39 58S	07:34 246
2024 Apr 27 (Sat)	21:32 118	02:31 55S	08:24 243
2024 Apr 28 (Sun)	22:30 119	03:26 53S	09:19 241
2024 Apr 29 (Mon)	23:28 118	04:23 53S	10:17 241
2024 Apr 30 (Tue)		05:22 54S	11:16 243
2024 May 01 (Wed)	00:23 115	06:19 57S	12:16 247
2024 May 02 (Thu)	01:15 111	07:13 62S	13:14 252
2024 May 03 (Fri)	02:03 105	08:05 68S	14:09 258
2024 May 04 (Sat)	02:49 99	08:56 75S	15:04 265
2024 May 05 (Sun)	03:34 91	09:45 82S	15:58 272
2024 May 06 (Mon)	04:19 84	10:35 89S	16:53 280
2024 May 07 (Tue)	05:05 77	11:27 85N	17:50 286
2024 May 08 (Wed)	05:55 71	12:21 79N	18:50 292
2024 May 09 (Thu)	06:48 66	13:19 75N	19:51 296
2024 May 10 (Fri)	07:44 63	14:18 72N	20:53 298
2024 May 11 (Sat)	08:43 61	15:18 71N	21:53 299
2024 May 12 (Sun)	09:42 62	16:15 72N	22:48 297
2024 May 13 (Mon)	10:38 64	17:09 74N	23:39 295
2024 May 14 (Tue)	11:31 67	17:59 78N	
2024 May 15 (Wed)	12:21 72	18:44 83N	00:24 291
2024 May 16 (Thu)	13:07 77	19:26 88N	01:05 286
2024 May 17 (Fri)	13:51 82	20:06 88S	01:42 280
2024 May 18 (Sat)	14:34 88	20:45 82S	02:18 275
2024 May 19 (Sun)	15:17 94	21:24 76S	02:53 269
2024 May 20 (Mon)	16:01 100	22:04 70S	03:29 263
2024 May 21 (Tue)	16:47 105	22:47 65S	04:06 257
2024 May 22 (Wed)	17:36 110	23:34 60S	04:46 252
2024 May 23 (Thu)	18:29 115		05:30 248
2024 May 24 (Fri)	19:25 117	00:24 56S	06:19 244
2024 May 25 (Sat)	20:24 119	01:19 54S	07:13 242
2024 May 26 (Sun)	21:23 118	02:17 53S	08:11 241
2024 May 27 (Mon)	22:19 116	03:16 53S	09:11 243
2024 May 28 (Tue)	23:12 112	04:14 56S	10:11 246
2024 May 29 (Wed)		05:10 60S	11:09 250
2024 May 30 (Thu)	00:01 107	06:02 66S	12:05 256
2024 May 31 (Fri)	00:47 101	06:51 72S	12:58 263
2024 Jun 01 (Sat)	01:31 94	07:40 79S	13:51 270
2024 Jun 02 (Sun)	02:14 87	08:28 87S	14:44 277
2024 Jun 03 (Mon)	02:58 80	09:17 88N	15:38 284
2024 Jun 04 (Tue)	03:45 73	10:09 82N	16:35 290
2024 Jun 05 (Wed)	04:35 68	11:04 77N	17:35 294
2024 Jun 06 (Thu)	05:30 64	12:02 73N	18:36 297
2024 Jun 07 (Fri)	06:27 62	13:02 71N	19:37 299
2024 Jun 08 (Sat)	07:26 61	14:01 71N	20:35 298
2024 Jun 09 (Sun)	08:25 63	14:57 73N	21:29 296
2024 Jun 10 (Mon)	09:20 66	15:49 77N	22:17 292
2024 Jun 11 (Tue)	10:12 70	16:37 81N	23:00 288
2024 Jun 12 (Wed)	11:00 75	17:21 86N	23:39 283
2024 Jun 13 (Thu)	11:46 80	18:02 90S	
2024 Jun 14 (Fri)	12:29 86	18:41 84S	00:16 277
2024 Jun 15 (Sat)	13:12 92	19:20 78S	00:51 271
2024 Jun 16 (Sun)	13:55 98	19:59 72S	01:26 265
2024 Jun 17 (Mon)	14:40 103	20:41 67S	02:02 260

2024 Jun 18 (Tue)	15:27 108	21:26 62S	02:41 254
2024 Jun 19 (Wed)	16:19 113	22:15 57S	03:23 249
2024 Jun 20 (Thu)	17:14 116	23:09 54S	04:10 245
2024 Jun 21 (Fri)	18:13 118		05:03 242
2024 Jun 22 (Sat)	19:13 119	00:07 53S	06:00 241
2024 Jun 23 (Sun)	20:12 117	01:07 53S	07:01 242
2024 Jun 24 (Mon)	21:07 113	02:06 55S	08:02 245
2024 Jun 25 (Tue)	21:58 108	03:04 59S	09:03 249
2024 Jun 26 (Wed)	22:45 102	03:58 64S	10:00 254
2024 Jun 27 (Thu)	23:30 96	04:49 71S	10:55 261
2024 Jun 28 (Fri)		05:38 78S	11:48 268
2024 Jun 29 (Sat)	00:13 89	06:25 85S	12:40 275
2024 Jun 30 (Sun)	00:56 82	07:13 90N	13:33 282
2024 Jul 01 (Mon)	01:41 75	08:03 84N	14:27 288
2024 Jul 02 (Tue)	02:29 70	08:56 78N	15:25 293
2024 Jul 03 (Wed)	03:21 65	09:52 74N	16:24 297
2024 Jul 04 (Thu)	04:16 62	10:50 72N	17:24 298
2024 Jul 05 (Fri)	05:14 61	11:49 71N	18:23 299
2024 Jul 06 (Sat)	06:13 62	12:46 72N	19:18 297
2024 Jul 07 (Sun)	07:09 64	13:40 75N	20:09 294
2024 Jul 08 (Mon)	08:03 68	14:29 79N	20:54 290
2024 Jul 09 (Tue)	08:53 73	15:15 84N	21:35 285
2024 Jul 10 (Wed)	09:39 78	15:57 89N	22:13 279
2024 Jul 11 (Thu)	10:23 84	16:37 86S	22:48 273
2024 Jul 12 (Fri)	11:06 90	17:16 80S	23:23 267
2024 Jul 13 (Sat)	11:49 96	17:55 74S	23:59 262
2024 Jul 14 (Sun)	12:33 101	18:35 69S	
2024 Jul 15 (Mon)	13:19 107	19:18 64S	00:36 256
2024 Jul 16 (Tue)	14:08 111	20:05 59S	01:16 251
2024 Jul 17 (Wed)	15:01 115	20:56 55S	02:01 247
2024 Jul 18 (Thu)	15:58 118	21:52 53S	02:50 243
2024 Jul 19 (Fri)	16:58 119	22:51 53S	03:45 241
2024 Jul 20 (Sat)	17:58 118	23:52 54S	04:45 241
2024 Jul 21 (Sun)	18:56 115		05:48 243
2024 Jul 22 (Mon)	19:50 111	00:52 57S	06:50 247
2024 Jul 23 (Tue)	20:40 105	01:49 62S	07:50 252
2024 Jul 24 (Wed)	21:27 98	02:43 68S	08:47 259
2024 Jul 25 (Thu)	22:11 91	03:33 75S	09:42 266
2024 Jul 26 (Fri)	22:55 84	04:22 83S	10:36 273
2024 Jul 27 (Sat)	23:40 77	05:11 90S	11:29 280
2024 Jul 28 (Sun)		06:00 85N	12:23 286
2024 Jul 29 (Mon)	00:26 71	06:52 79N	13:20 292
2024 Jul 30 (Tue)	01:16 66	07:46 75N	14:18 296
2024 Jul 31 (Wed)	02:10 63	08:43 72N	15:17 298
2024 Aug 01 (Thu)	03:07 61	09:41 71N	16:16 299
2024 Aug 02 (Fri)	04:04 61	10:38 72N	17:11 298
2024 Aug 03 (Sat)	05:01 63	11:33 74N	18:03 295
2024 Aug 04 (Sun)	05:55 67	12:23 78N	18:49 291
2024 Aug 05 (Mon)	06:46 71	13:10 82N	19:32 286
2024 Aug 06 (Tue)	07:34 76	13:53 87N	20:10 281
2024 Aug 07 (Wed)	08:19 82	14:34 88S	20:47 275
2024 Aug 08 (Thu)	09:02 88	15:13 82S	21:22 269
2024 Aug 09 (Fri)	09:45 93	15:52 77S	21:57 264
2024 Aug 10 (Sat)	10:28 99	16:31 71S	22:33 258
2024 Aug 11 (Sun)	11:12 105	17:13 65S	23:11 253
2024 Aug 12 (Mon)	11:59 110	17:57 61S	23:53 248
2024 Aug 13 (Tue)	12:50 114	18:45 57S	
2024 Aug 14 (Wed)	13:44 117	19:38 54S	00:39 244
2024 Aug 15 (Thu)	14:42 119	20:35 52S	01:31 242
2024 Aug 16 (Fri)	15:41 119	21:35 53S	02:28 241
2024 Aug 17 (Sat)	16:40 117	22:35 55S	03:29 242
2024 Aug 18 (Sun)	17:36 113	23:34 60S	04:31 245
2024 Aug 19 (Mon)	18:29 108		05:33 249
2024 Aug 20 (Tue)	19:18 101	00:30 65S	06:33 256
2024 Aug 21 (Wed)	20:04 94	01:23 72S	07:30 263
2024 Aug 22 (Thu)	20:50 86	02:14 80S	08:26 270
2024 Aug 23 (Fri)	21:35 79	03:04 87S	09:21 278

2024 Aug 24 (Sat)	22:23	73	03:55	87N	10:17	284
2024 Aug 25 (Sun)	23:13	67	04:47	81N	11:14	290
2024 Aug 26 (Mon)			05:42	76N	12:12	295
2024 Aug 27 (Tue)	00:06	64	06:38	73N	13:12	298
2024 Aug 28 (Wed)	01:02	61	07:36	71N	14:11	299
2024 Aug 29 (Thu)	01:59	61	08:34	71N	15:07	298
2024 Aug 30 (Fri)	02:56	62	09:28	73N	16:00	296
2024 Aug 31 (Sat)	03:50	65	10:20	76N	16:47	293
2024 Sep 01 (Sun)	04:42	69	11:07	81N	17:30	288
2024 Sep 02 (Mon)	05:30	74	11:51	86N	18:10	283
2024 Sep 03 (Tue)	06:16	80	12:32	90S	18:47	277
2024 Sep 04 (Wed)	06:59	86	13:12	84S	19:22	271
2024 Sep 05 (Thu)	07:42	91	13:50	78S	19:57	266
2024 Sep 06 (Fri)	08:25	97	14:29	73S	20:32	260
2024 Sep 07 (Sat)	09:08	103	15:10	67S	21:09	255
2024 Sep 08 (Sun)	09:54	108	15:53	62S	21:49	250
2024 Sep 09 (Mon)	10:43	113	16:39	58S	22:33	246
2024 Sep 10 (Tue)	11:35	116	17:29	55S	23:22	243
2024 Sep 11 (Wed)	12:30	118	18:22	53S		
2024 Sep 12 (Thu)	13:27	119	19:20	52S	00:15	241
2024 Sep 13 (Fri)	14:24	118	20:18	54S	01:13	241
2024 Sep 14 (Sat)	15:20	115	21:16	57S	02:13	243
2024 Sep 15 (Sun)	16:14	111	22:13	62S	03:14	247
2024 Sep 16 (Mon)	17:04	105	23:07	69S	04:14	252
2024 Sep 17 (Tue)	17:52	97	23:59	76S	05:12	259
2024 Sep 18 (Wed)	18:39	90			06:09	266
2024 Sep 19 (Thu)	19:25	82	00:51	83S	07:05	274
2024 Sep 20 (Fri)	20:13	75	01:43	90N	08:03	281
2024 Sep 21 (Sat)	21:04	69	02:36	84N	09:01	288
2024 Sep 22 (Sun)	21:58	65	03:32	78N	10:02	293
2024 Sep 23 (Mon)	22:55	62	04:30	74N	11:03	297
2024 Sep 24 (Tue)	23:53	61	05:29	71N	12:04	299
2024 Sep 25 (Wed)			06:28	71N	13:03	299
2024 Sep 26 (Thu)	00:51	62	07:24	72N	13:57	297
2024 Sep 27 (Fri)	01:47	64	08:17	75N	14:46	294
2024 Sep 28 (Sat)	02:39	68	09:05	79N	15:30	290
2024 Sep 29 (Sun)	03:28	73	09:50	84N	16:10	285
2024 Sep 30 (Mon)	04:14	78	10:32	89N	16:47	279
2024 Oct 01 (Tue)	04:58	84	11:11	86S	17:23	273
2024 Oct 02 (Wed)	05:41	90	11:50	80S	17:58	268
2024 Oct 03 (Thu)	06:23	95	12:29	75S	18:33	262
2024 Oct 04 (Fri)	07:06	101	13:09	69S	19:10	256
2024 Oct 05 (Sat)	07:52	106	13:51	64S	19:49	251
2024 Oct 06 (Sun)	08:39	111	14:36	59S	20:31	247
2024 Oct 07 (Mon)	09:30	115	15:24	56S	21:17	244
2024 Oct 08 (Tue)	10:23	118	16:16	53S	22:08	241
2024 Oct 09 (Wed)	11:18	119	17:11	52S	23:03	241
2024 Oct 10 (Thu)	12:14	119	18:07	53S		
2024 Oct 11 (Fri)	13:09	117	19:04	56S	00:01	242
2024 Oct 12 (Sat)	14:02	113	19:59	60S	00:59	245
2024 Oct 13 (Sun)	14:52	108	20:52	65S	01:58	249
2024 Oct 14 (Mon)	15:39	101	21:44	72S	02:55	255
2024 Oct 15 (Tue)	16:25	94	22:35	79S	03:51	262
2024 Oct 16 (Wed)	17:11	86	23:26	87S	04:47	270
2024 Oct 17 (Thu)	17:59	79			05:43	277
2024 Oct 18 (Fri)	18:49	72	00:19	87N	06:42	285
2024 Oct 19 (Sat)	19:43	67	01:15	81N	07:43	291
2024 Oct 20 (Sun)	20:41	63	02:14	75N	08:46	295
2024 Oct 21 (Mon)	21:41	61	03:15	72N	09:50	298
2024 Oct 22 (Tue)	22:41	61	04:16	71N	10:52	299
2024 Oct 23 (Wed)	23:39	63	05:16	72N	11:49	298
2024 Oct 24 (Thu)			06:11	74N	12:41	295
2024 Oct 25 (Fri)	00:34	67	07:02	78N	13:28	291
2024 Oct 26 (Sat)	01:24	71	07:48	82N	14:10	286
2024 Oct 27 (Sun)	02:12	76	08:31	87N	14:48	281
2024 Oct 28 (Mon)	02:56	82	09:11	88S	15:24	275
2024 Oct 29 (Tue)	03:39	88	09:50	82S	15:59	269

2024 Oct 30 (Wed)	04:21 93	10:28 76S	16:34 264
2024 Oct 31 (Thu)	05:04 99	11:08 71S	17:10 258
2024 Nov 01 (Fri)	05:49 105	11:49 65S	17:48 253
2024 Nov 02 (Sat)	06:36 110	12:34 61S	18:30 248
2024 Nov 03 (Sun)	07:26 114	13:21 57S	19:15 244
2024 Nov 04 (Mon)	08:19 117	14:12 54S	20:05 242
2024 Nov 05 (Tue)	09:14 119	15:06 53S	20:59 241
2024 Nov 06 (Wed)	10:09 119	16:02 53S	21:55 242
2024 Nov 07 (Thu)	11:04 117	16:58 55S	22:52 244
2024 Nov 08 (Fri)	11:56 114	17:52 58S	23:49 248
2024 Nov 09 (Sat)	12:45 110	18:44 63S	
2024 Nov 10 (Sun)	13:32 104	19:34 69S	00:45 253
2024 Nov 11 (Mon)	14:16 97	20:23 76S	01:39 259
2024 Nov 12 (Tue)	15:01 90	21:12 83S	02:32 266
2024 Nov 13 (Wed)	15:46 83	22:03 91S	03:26 274
2024 Nov 14 (Thu)	16:34 76	22:56 84N	04:22 281
2024 Nov 15 (Fri)	17:25 70	23:53 78N	05:21 288
2024 Nov 16 (Sat)	18:21 65		06:23 293
2024 Nov 17 (Sun)	19:22 62	00:54 74N	07:28 297
2024 Nov 18 (Mon)	20:24 61	01:57 71N	08:33 299
2024 Nov 19 (Tue)	21:25 62	03:00 71N	09:35 298
2024 Nov 20 (Wed)	22:23 65	03:59 73N	10:31 296
2024 Nov 21 (Thu)	23:17 69	04:53 76N	11:21 293
2024 Nov 22 (Fri)		05:42 80N	12:06 288
2024 Nov 23 (Sat)	00:06 74	06:27 86N	12:46 283
2024 Nov 24 (Sun)	00:52 80	07:09 90S	13:23 277
2024 Nov 25 (Mon)	01:36 86	07:48 84S	13:58 271
2024 Nov 26 (Tue)	02:18 91	08:27 78S	14:33 266
2024 Nov 27 (Wed)	03:01 97	09:06 73S	15:09 260
2024 Nov 28 (Thu)	03:45 103	09:47 67S	15:46 255
2024 Nov 29 (Fri)	04:31 108	10:30 62S	16:27 250
2024 Nov 30 (Sat)	05:20 113	11:16 58S	17:11 246
2024 Dec 01 (Sun)	06:13 116	12:07 55S	18:00 243
2024 Dec 02 (Mon)	07:08 118	13:01 53S	18:53 241
2024 Dec 03 (Tue)	08:04 119	13:57 53S	19:50 241
2024 Dec 04 (Wed)	09:00 118	14:53 54S	20:48 243
2024 Dec 05 (Thu)	09:53 115	15:48 57S	21:45 247
2024 Dec 06 (Fri)	10:43 111	16:41 62S	22:40 252
2024 Dec 07 (Sat)	11:29 106	17:31 67S	23:34 257
2024 Dec 08 (Sun)	12:14 99	18:19 74S	
2024 Dec 09 (Mon)	12:56 92	19:06 81S	00:26 264
2024 Dec 10 (Tue)	13:39 85	19:54 88S	01:18 271
2024 Dec 11 (Wed)	14:24 79	20:44 87N	02:11 278
2024 Dec 12 (Thu)	15:12 72	21:37 81N	03:06 285
2024 Dec 13 (Fri)	16:05 67	22:35 76N	04:05 291
2024 Dec 14 (Sat)	17:02 63	23:36 72N	05:07 295
2024 Dec 15 (Sun)	18:04 61		06:12 298
2024 Dec 16 (Mon)	19:06 62	00:39 71N	07:15 299
2024 Dec 17 (Tue)	20:07 64	01:41 72N	08:15 297
2024 Dec 18 (Wed)	21:04 67	02:39 75N	09:09 294
2024 Dec 19 (Thu)	21:57 72	03:32 79N	09:58 290
2024 Dec 20 (Fri)	22:45 78	04:20 84N	10:40 285
2024 Dec 21 (Sat)	23:30 83	05:03 89N	11:19 279
2024 Dec 22 (Sun)		05:44 87S	11:56 274
2024 Dec 23 (Mon)	00:13 89	06:23 81S	12:31 268
2024 Dec 24 (Tue)	00:56 95	07:02 75S	13:06 262
2024 Dec 25 (Wed)	01:40 101	07:42 69S	13:43 256
2024 Dec 26 (Thu)	02:25 106	08:24 64S	14:22 251
2024 Dec 27 (Fri)	03:12 111	09:09 59S	15:05 247
2024 Dec 28 (Sat)	04:03 115	09:58 56S	15:52 244
2024 Dec 29 (Sun)	04:58 118	10:51 53S	16:44 242
2024 Dec 30 (Mon)	05:54 119	11:47 53S	17:40 241
2024 Dec 31 (Tue)	06:51 118	12:45 53S	18:39 242