

Sun

Phrea

Location: E100°08'31.1", N18°08'24.0", 0m
(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)	06:00	06:51 114		12:23 50S	17:55 246		18:45
2024 Jan 02 (Tue)	06:00	06:51 114		12:23 50S	17:55 246		18:46
2024 Jan 03 (Wed)	06:01	06:51 114		12:24 50S	17:56 246		18:46
2024 Jan 04 (Thu)	06:01	06:52 114		12:24 50S	17:56 246		18:47
2024 Jan 05 (Fri)	06:01	06:52 114		12:24 50S	17:57 246		18:48
2024 Jan 06 (Sat)	06:02	06:52 114		12:25 50S	17:58 247		18:48
2024 Jan 07 (Sun)	06:02	06:53 113		12:25 50S	17:58 247		18:49
2024 Jan 08 (Mon)	06:02	06:53 113		12:26 50S	17:59 247		18:49
2024 Jan 09 (Tue)	06:03	06:53 113		12:26 50S	18:00 247		18:50
2024 Jan 10 (Wed)	06:03	06:53 113		12:27 51S	18:00 247		18:51
2024 Jan 11 (Thu)	06:03	06:53 113		12:27 51S	18:01 247		18:51
2024 Jan 12 (Fri)	06:03	06:54 113		12:27 51S	18:01 247		18:52
2024 Jan 13 (Sat)	06:03	06:54 112		12:28 51S	18:02 248		18:52
2024 Jan 14 (Sun)	06:04	06:54 112		12:28 51S	18:03 248		18:53
2024 Jan 15 (Mon)	06:04	06:54 112		12:29 51S	18:03 248		18:53
2024 Jan 16 (Tue)	06:04	06:54 112		12:29 52S	18:04 248		18:54
2024 Jan 17 (Wed)	06:04	06:54 112		12:29 52S	18:05 248		18:55
2024 Jan 18 (Thu)	06:04	06:54 112		12:30 52S	18:05 249		18:55
2024 Jan 19 (Fri)	06:04	06:54 111		12:30 52S	18:06 249		18:56
2024 Jan 20 (Sat)	06:04	06:54 111		12:30 52S	18:06 249		18:56
2024 Jan 21 (Sun)	06:04	06:54 111		12:31 53S	18:07 249		18:57
2024 Jan 22 (Mon)	06:04	06:54 111		12:31 53S	18:08 249		18:57
2024 Jan 23 (Tue)	06:04	06:54 110		12:31 53S	18:08 250		18:58
2024 Jan 24 (Wed)	06:04	06:54 110		12:31 53S	18:09 250		18:58
2024 Jan 25 (Thu)	06:04	06:54 110		12:32 53S	18:09 250		18:59
2024 Jan 26 (Fri)	06:04	06:54 110		12:32 54S	18:10 250		18:59
2024 Jan 27 (Sat)	06:04	06:54 109		12:32 54S	18:11 251		19:00
2024 Jan 28 (Sun)	06:04	06:53 109		12:32 54S	18:11 251		19:00
2024 Jan 29 (Mon)	06:04	06:53 109		12:32 55S	18:12 251		19:01
2024 Jan 30 (Tue)	06:04	06:53 109		12:33 55S	18:12 252		19:01
2024 Jan 31 (Wed)	06:04	06:53 108		12:33 55S	18:13 252		19:02
2024 Feb 01 (Thu)	06:04	06:53 108		12:33 55S	18:13 252		19:02
2024 Feb 02 (Fri)	06:03	06:52 108		12:33 56S	18:14 252		19:03
2024 Feb 03 (Sat)	06:03	06:52 107		12:33 56S	18:14 253		19:03
2024 Feb 04 (Sun)	06:03	06:52 107		12:33 56S	18:15 253		19:04
2024 Feb 05 (Mon)	06:03	06:51 107		12:33 56S	18:15 253		19:04
2024 Feb 06 (Tue)	06:03	06:51 106		12:33 57S	18:16 254		19:05
2024 Feb 07 (Wed)	06:02	06:51 106		12:33 57S	18:16 254		19:05
2024 Feb 08 (Thu)	06:02	06:50 106		12:34 57S	18:17 254		19:05
2024 Feb 09 (Fri)	06:02	06:50 105		12:34 58S	18:17 255		19:06
2024 Feb 10 (Sat)	06:01	06:50 105		12:34 58S	18:18 255		19:06
2024 Feb 11 (Sun)	06:01	06:49 105		12:34 58S	18:18 255		19:07
2024 Feb 12 (Mon)	06:01	06:49 104		12:34 59S	18:19 256		19:07
2024 Feb 13 (Tue)	06:00	06:48 104		12:34 59S	18:19 256		19:07
2024 Feb 14 (Wed)	06:00	06:48 104		12:34 59S	18:20 256		19:08
2024 Feb 15 (Thu)	05:59	06:47 103		12:34 60S	18:20 257		19:08
2024 Feb 16 (Fri)	05:59	06:47 103		12:34 60S	18:21 257		19:08
2024 Feb 17 (Sat)	05:58	06:46 103		12:33 60S	18:21 258		19:09
2024 Feb 18 (Sun)	05:58	06:46 102		12:33 61S	18:21 258		19:09
2024 Feb 19 (Mon)	05:57	06:45 102		12:33 61S	18:22 258		19:09
2024 Feb 20 (Tue)	05:57	06:45 101		12:33 61S	18:22 259		19:10
2024 Feb 21 (Wed)	05:56	06:44 101		12:33 62S	18:23 259		19:10
2024 Feb 22 (Thu)	05:56	06:43 101		12:33 62S	18:23 259		19:10
2024 Feb 23 (Fri)	05:55	06:43 100		12:33 63S	18:23 260		19:11
2024 Feb 24 (Sat)	05:55	06:42 100		12:33 63S	18:24 260		19:11

2024	Feb	25	(Sun)	05:54	06:41	100	12:33	63S	18:24	261	19:11
2024	Feb	26	(Mon)	05:53	06:41	99	12:32	64S	18:24	261	19:12
2024	Feb	27	(Tue)	05:53	06:40	99	12:32	64S	18:25	261	19:12
2024	Feb	28	(Wed)	05:52	06:39	98	12:32	64S	18:25	262	19:12
2024	Feb	29	(Thu)	05:52	06:39	98	12:32	65S	18:25	262	19:13
2024	Mar	01	(Fri)	05:51	06:38	98	12:32	65S	18:26	263	19:13
2024	Mar	02	(Sat)	05:50	06:37	97	12:31	66S	18:26	263	19:13
2024	Mar	03	(Sun)	05:50	06:37	97	12:31	66S	18:26	263	19:13
2024	Mar	04	(Mon)	05:49	06:36	96	12:31	66S	18:26	264	19:14
2024	Mar	05	(Tue)	05:48	06:35	96	12:31	67S	18:27	264	19:14
2024	Mar	06	(Wed)	05:47	06:34	96	12:31	67S	18:27	265	19:14
2024	Mar	07	(Thu)	05:47	06:34	95	12:30	67S	18:27	265	19:14
2024	Mar	08	(Fri)	05:46	06:33	95	12:30	68S	18:28	265	19:15
2024	Mar	09	(Sat)	05:45	06:32	94	12:30	68S	18:28	266	19:15
2024	Mar	10	(Sun)	05:44	06:31	94	12:30	69S	18:28	266	19:15
2024	Mar	11	(Mon)	05:44	06:31	94	12:29	69S	18:28	267	19:15
2024	Mar	12	(Tue)	05:43	06:30	93	12:29	69S	18:29	267	19:16
2024	Mar	13	(Wed)	05:42	06:29	93	12:29	70S	18:29	268	19:16
2024	Mar	14	(Thu)	05:41	06:28	92	12:29	70S	18:29	268	19:16
2024	Mar	15	(Fri)	05:41	06:28	92	12:28	71S	18:29	268	19:16
2024	Mar	16	(Sat)	05:40	06:27	91	12:28	71S	18:30	269	19:17
2024	Mar	17	(Sun)	05:39	06:26	91	12:28	71S	18:30	269	19:17
2024	Mar	18	(Mon)	05:38	06:25	91	12:27	72S	18:30	270	19:17
2024	Mar	19	(Tue)	05:37	06:24	90	12:27	72S	18:30	270	19:17
2024	Mar	20	(Wed)	05:36	06:23	90	12:27	73S	18:30	270	19:17
2024	Mar	21	(Thu)	05:36	06:23	89	12:27	73S	18:31	271	19:18
2024	Mar	22	(Fri)	05:35	06:22	89	12:26	73S	18:31	271	19:18
2024	Mar	23	(Sat)	05:34	06:21	89	12:26	74S	18:31	272	19:18
2024	Mar	24	(Sun)	05:33	06:20	88	12:26	74S	18:31	272	19:18
2024	Mar	25	(Mon)	05:32	06:19	88	12:25	75S	18:32	272	19:19
2024	Mar	26	(Tue)	05:31	06:19	87	12:25	75S	18:32	273	19:19
2024	Mar	27	(Wed)	05:31	06:18	87	12:25	75S	18:32	273	19:19
2024	Mar	28	(Thu)	05:30	06:17	86	12:24	76S	18:32	274	19:19
2024	Mar	29	(Fri)	05:29	06:16	86	12:24	76S	18:32	274	19:20
2024	Mar	30	(Sat)	05:28	06:15	86	12:24	77S	18:33	275	19:20
2024	Mar	31	(Sun)	05:27	06:15	85	12:24	77S	18:33	275	19:20
2024	Apr	01	(Mon)	05:26	06:14	85	12:23	77S	18:33	275	19:20
2024	Apr	02	(Tue)	05:26	06:13	84	12:23	78S	18:33	276	19:21
2024	Apr	03	(Wed)	05:25	06:12	84	12:23	78S	18:33	276	19:21
2024	Apr	04	(Thu)	05:24	06:11	84	12:22	78S	18:34	277	19:21
2024	Apr	05	(Fri)	05:23	06:10	83	12:22	79S	18:34	277	19:21
2024	Apr	06	(Sat)	05:22	06:10	83	12:22	79S	18:34	277	19:22
2024	Apr	07	(Sun)	05:21	06:09	82	12:21	80S	18:34	278	19:22
2024	Apr	08	(Mon)	05:20	06:08	82	12:21	80S	18:35	278	19:22
2024	Apr	09	(Tue)	05:20	06:07	82	12:21	80S	18:35	279	19:23
2024	Apr	10	(Wed)	05:19	06:07	81	12:21	81S	18:35	279	19:23
2024	Apr	11	(Thu)	05:18	06:06	81	12:20	81S	18:35	279	19:23
2024	Apr	12	(Fri)	05:17	06:05	80	12:20	81S	18:35	280	19:23
2024	Apr	13	(Sat)	05:16	06:04	80	12:20	82S	18:36	280	19:24
2024	Apr	14	(Sun)	05:16	06:04	80	12:20	82S	18:36	280	19:24
2024	Apr	15	(Mon)	05:15	06:03	79	12:19	83S	18:36	281	19:24
2024	Apr	16	(Tue)	05:14	06:02	79	12:19	83S	18:36	281	19:25
2024	Apr	17	(Wed)	05:13	06:01	79	12:19	83S	18:37	282	19:25
2024	Apr	18	(Thu)	05:12	06:01	78	12:19	84S	18:37	282	19:25
2024	Apr	19	(Fri)	05:12	06:00	78	12:19	84S	18:37	282	19:26
2024	Apr	20	(Sat)	05:11	05:59	78	12:18	84S	18:37	283	19:26
2024	Apr	21	(Sun)	05:10	05:59	77	12:18	85S	18:38	283	19:26
2024	Apr	22	(Mon)	05:09	05:58	77	12:18	85S	18:38	283	19:27
2024	Apr	23	(Tue)	05:09	05:57	76	12:18	85S	18:38	284	19:27
2024	Apr	24	(Wed)	05:08	05:57	76	12:18	86S	18:39	284	19:28
2024	Apr	25	(Thu)	05:07	05:56	76	12:17	86S	18:39	284	19:28
2024	Apr	26	(Fri)	05:06	05:55	75	12:17	86S	18:39	285	19:28
2024	Apr	27	(Sat)	05:06	05:55	75	12:17	87S	18:39	285	19:29
2024	Apr	28	(Sun)	05:05	05:54	75	12:17	87S	18:40	285	19:29
2024	Apr	29	(Mon)	05:04	05:54	74	12:17	87S	18:40	286	19:29
2024	Apr	30	(Tue)	05:04	05:53	74	12:17	87S	18:40	286	19:30
2024	May	01	(Wed)	05:03	05:53	74	12:17	88S	18:41	286	19:30

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

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

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

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

Sun

Phrea

Location: E100°08'31.1", N18°08'24.0", 0m
(Longitude referred to Greenwich meridian)

Time Zone: 7h 00m east of Greenwich

Date (Zone)	Begin Civil Twilight h m	Rise h m °	Az. °	Transit Alt. h m °	Set h m °	Az. °	End Civil Twilight h m				
2024	Jan	01	(Mon)	06:27	06:51	114	12:23	50S	17:55	246	18:18
2024	Jan	02	(Tue)	06:27	06:51	114	12:23	50S	17:55	246	18:19
2024	Jan	03	(Wed)	06:28	06:51	114	12:24	50S	17:56	246	18:19
2024	Jan	04	(Thu)	06:28	06:52	114	12:24	50S	17:56	246	18:20
2024	Jan	05	(Fri)	06:28	06:52	114	12:24	50S	17:57	246	18:21
2024	Jan	06	(Sat)	06:29	06:52	114	12:25	50S	17:58	247	18:21
2024	Jan	07	(Sun)	06:29	06:53	113	12:25	50S	17:58	247	18:22
2024	Jan	08	(Mon)	06:29	06:53	113	12:26	50S	17:59	247	18:22
2024	Jan	09	(Tue)	06:30	06:53	113	12:26	50S	18:00	247	18:23
2024	Jan	10	(Wed)	06:30	06:53	113	12:27	51S	18:00	247	18:24
2024	Jan	11	(Thu)	06:30	06:53	113	12:27	51S	18:01	247	18:24

2024	Jan	12	(Fri)	06:30	06:54	113	12:27	51S	18:01	247	18:25
2024	Jan	13	(Sat)	06:30	06:54	112	12:28	51S	18:02	248	18:25
2024	Jan	14	(Sun)	06:31	06:54	112	12:28	51S	18:03	248	18:26
2024	Jan	15	(Mon)	06:31	06:54	112	12:29	51S	18:03	248	18:27
2024	Jan	16	(Tue)	06:31	06:54	112	12:29	52S	18:04	248	18:27
2024	Jan	17	(Wed)	06:31	06:54	112	12:29	52S	18:05	248	18:28
2024	Jan	18	(Thu)	06:31	06:54	112	12:30	52S	18:05	249	18:28
2024	Jan	19	(Fri)	06:31	06:54	111	12:30	52S	18:06	249	18:29
2024	Jan	20	(Sat)	06:31	06:54	111	12:30	52S	18:06	249	18:30
2024	Jan	21	(Sun)	06:31	06:54	111	12:31	53S	18:07	249	18:30
2024	Jan	22	(Mon)	06:31	06:54	111	12:31	53S	18:08	249	18:31
2024	Jan	23	(Tue)	06:31	06:54	110	12:31	53S	18:08	250	18:31
2024	Jan	24	(Wed)	06:31	06:54	110	12:31	53S	18:09	250	18:32
2024	Jan	25	(Thu)	06:31	06:54	110	12:32	53S	18:09	250	18:32
2024	Jan	26	(Fri)	06:31	06:54	110	12:32	54S	18:10	250	18:33
2024	Jan	27	(Sat)	06:31	06:54	109	12:32	54S	18:11	251	18:33
2024	Jan	28	(Sun)	06:31	06:53	109	12:32	54S	18:11	251	18:34
2024	Jan	29	(Mon)	06:30	06:53	109	12:32	55S	18:12	251	18:35
2024	Jan	30	(Tue)	06:30	06:53	109	12:33	55S	18:12	252	18:35
2024	Jan	31	(Wed)	06:30	06:53	108	12:33	55S	18:13	252	18:36
2024	Feb	01	(Thu)	06:30	06:53	108	12:33	55S	18:13	252	18:36
2024	Feb	02	(Fri)	06:30	06:52	108	12:33	56S	18:14	252	18:37
2024	Feb	03	(Sat)	06:29	06:52	107	12:33	56S	18:14	253	18:37
2024	Feb	04	(Sun)	06:29	06:52	107	12:33	56S	18:15	253	18:38
2024	Feb	05	(Mon)	06:29	06:51	107	12:33	56S	18:15	253	18:38
2024	Feb	06	(Tue)	06:29	06:51	106	12:33	57S	18:16	254	18:39
2024	Feb	07	(Wed)	06:28	06:51	106	12:33	57S	18:16	254	18:39
2024	Feb	08	(Thu)	06:28	06:50	106	12:34	57S	18:17	254	18:39
2024	Feb	09	(Fri)	06:27	06:50	105	12:34	58S	18:17	255	18:40
2024	Feb	10	(Sat)	06:27	06:50	105	12:34	58S	18:18	255	18:40
2024	Feb	11	(Sun)	06:27	06:49	105	12:34	58S	18:18	255	18:41
2024	Feb	12	(Mon)	06:26	06:49	104	12:34	59S	18:19	256	18:41
2024	Feb	13	(Tue)	06:26	06:48	104	12:34	59S	18:19	256	18:42
2024	Feb	14	(Wed)	06:25	06:48	104	12:34	59S	18:20	256	18:42
2024	Feb	15	(Thu)	06:25	06:47	103	12:34	60S	18:20	257	18:42
2024	Feb	16	(Fri)	06:24	06:47	103	12:34	60S	18:21	257	18:43
2024	Feb	17	(Sat)	06:24	06:46	103	12:33	60S	18:21	258	18:43
2024	Feb	18	(Sun)	06:23	06:46	102	12:33	61S	18:21	258	18:44
2024	Feb	19	(Mon)	06:23	06:45	102	12:33	61S	18:22	258	18:44
2024	Feb	20	(Tue)	06:22	06:45	101	12:33	61S	18:22	259	18:44
2024	Feb	21	(Wed)	06:22	06:44	101	12:33	62S	18:23	259	18:45
2024	Feb	22	(Thu)	06:21	06:43	101	12:33	62S	18:23	259	18:45
2024	Feb	23	(Fri)	06:21	06:43	100	12:33	63S	18:23	260	18:45
2024	Feb	24	(Sat)	06:20	06:42	100	12:33	63S	18:24	260	18:46
2024	Feb	25	(Sun)	06:19	06:41	100	12:33	63S	18:24	261	18:46
2024	Feb	26	(Mon)	06:19	06:41	99	12:32	64S	18:24	261	18:46
2024	Feb	27	(Tue)	06:18	06:40	99	12:32	64S	18:25	261	18:47
2024	Feb	28	(Wed)	06:18	06:39	98	12:32	64S	18:25	262	18:47
2024	Feb	29	(Thu)	06:17	06:39	98	12:32	65S	18:25	262	18:47
2024	Mar	01	(Fri)	06:16	06:38	98	12:32	65S	18:26	263	18:47
2024	Mar	02	(Sat)	06:16	06:37	97	12:31	66S	18:26	263	18:48
2024	Mar	03	(Sun)	06:15	06:37	97	12:31	66S	18:26	263	18:48
2024	Mar	04	(Mon)	06:14	06:36	96	12:31	66S	18:26	264	18:48
2024	Mar	05	(Tue)	06:13	06:35	96	12:31	67S	18:27	264	18:49
2024	Mar	06	(Wed)	06:13	06:34	96	12:31	67S	18:27	265	18:49
2024	Mar	07	(Thu)	06:12	06:34	95	12:30	67S	18:27	265	18:49
2024	Mar	08	(Fri)	06:11	06:33	95	12:30	68S	18:28	265	18:49
2024	Mar	09	(Sat)	06:10	06:32	94	12:30	68S	18:28	266	18:50
2024	Mar	10	(Sun)	06:10	06:31	94	12:30	69S	18:28	266	18:50
2024	Mar	11	(Mon)	06:09	06:31	94	12:29	69S	18:28	267	18:50
2024	Mar	12	(Tue)	06:08	06:30	93	12:29	69S	18:29	267	18:50
2024	Mar	13	(Wed)	06:07	06:29	93	12:29	70S	18:29	268	18:51
2024	Mar	14	(Thu)	06:07	06:28	92	12:29	70S	18:29	268	18:51
2024	Mar	15	(Fri)	06:06	06:28	92	12:28	71S	18:29	268	18:51
2024	Mar	16	(Sat)	06:05	06:27	91	12:28	71S	18:30	269	18:51
2024	Mar	17	(Sun)	06:04	06:26	91	12:28	71S	18:30	269	18:52
2024	Mar	18	(Mon)	06:03	06:25	91	12:27	72S	18:30	270	18:52

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

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

2024	Jul	31	(Wed)	05:34	05:57	71	12:26	91S	18:54	289	19:17
2024	Aug	01	(Thu)	05:35	05:58	71	12:26	90S	18:54	289	19:17
2024	Aug	02	(Fri)	05:35	05:58	71	12:26	90S	18:53	289	19:16
2024	Aug	03	(Sat)	05:35	05:58	71	12:26	90S	18:53	289	19:16
2024	Aug	04	(Sun)	05:36	05:59	72	12:26	90S	18:52	288	19:15
2024	Aug	05	(Mon)	05:36	05:59	72	12:25	89S	18:52	288	19:15
2024	Aug	06	(Tue)	05:36	05:59	72	12:25	89S	18:51	288	19:14
2024	Aug	07	(Wed)	05:37	06:00	72	12:25	89S	18:51	287	19:14
2024	Aug	08	(Thu)	05:37	06:00	73	12:25	89S	18:50	287	19:13
2024	Aug	09	(Fri)	05:37	06:00	73	12:25	88S	18:50	287	19:12
2024	Aug	10	(Sat)	05:38	06:00	73	12:25	88S	18:49	286	19:12
2024	Aug	11	(Sun)	05:38	06:01	74	12:25	88S	18:48	286	19:11
2024	Aug	12	(Mon)	05:38	06:01	74	12:24	87S	18:48	286	19:11
2024	Aug	13	(Tue)	05:38	06:01	74	12:24	87S	18:47	285	19:10
2024	Aug	14	(Wed)	05:39	06:01	75	12:24	87S	18:47	285	19:09
2024	Aug	15	(Thu)	05:39	06:02	75	12:24	86S	18:46	285	19:09
2024	Aug	16	(Fri)	05:39	06:02	75	12:24	86S	18:45	284	19:08
2024	Aug	17	(Sat)	05:40	06:02	76	12:23	86S	18:45	284	19:07
2024	Aug	18	(Sun)	05:40	06:02	76	12:23	85S	18:44	284	19:06
2024	Aug	19	(Mon)	05:40	06:03	76	12:23	85S	18:43	283	19:06
2024	Aug	20	(Tue)	05:40	06:03	77	12:23	85S	18:43	283	19:05
2024	Aug	21	(Wed)	05:41	06:03	77	12:23	85S	18:42	283	19:04
2024	Aug	22	(Thu)	05:41	06:03	77	12:22	84S	18:41	282	19:03
2024	Aug	23	(Fri)	05:41	06:03	78	12:22	84S	18:40	282	19:03
2024	Aug	24	(Sat)	05:41	06:04	78	12:22	83S	18:40	282	19:02
2024	Aug	25	(Sun)	05:42	06:04	78	12:21	83S	18:39	281	19:01
2024	Aug	26	(Mon)	05:42	06:04	79	12:21	83S	18:38	281	19:00
2024	Aug	27	(Tue)	05:42	06:04	79	12:21	82S	18:37	281	19:00
2024	Aug	28	(Wed)	05:42	06:04	80	12:21	82S	18:37	280	18:59
2024	Aug	29	(Thu)	05:42	06:05	80	12:20	82S	18:36	280	18:58
2024	Aug	30	(Fri)	05:43	06:05	80	12:20	81S	18:35	279	18:57
2024	Aug	31	(Sat)	05:43	06:05	81	12:20	81S	18:34	279	18:56
2024	Sep	01	(Sun)	05:43	06:05	81	12:19	81S	18:33	279	18:55
2024	Sep	02	(Mon)	05:43	06:05	81	12:19	80S	18:33	278	18:55
2024	Sep	03	(Tue)	05:43	06:05	82	12:19	80S	18:32	278	18:54
2024	Sep	04	(Wed)	05:44	06:06	82	12:18	80S	18:31	278	18:53
2024	Sep	05	(Thu)	05:44	06:06	83	12:18	79S	18:30	277	18:52
2024	Sep	06	(Fri)	05:44	06:06	83	12:18	79S	18:29	277	18:51
2024	Sep	07	(Sat)	05:44	06:06	83	12:17	78S	18:28	276	18:50
2024	Sep	08	(Sun)	05:44	06:06	84	12:17	78S	18:28	276	18:49
2024	Sep	09	(Mon)	05:45	06:06	84	12:17	78S	18:27	276	18:49
2024	Sep	10	(Tue)	05:45	06:07	85	12:16	77S	18:26	275	18:48
2024	Sep	11	(Wed)	05:45	06:07	85	12:16	77S	18:25	275	18:47
2024	Sep	12	(Thu)	05:45	06:07	85	12:16	77S	18:24	274	18:46
2024	Sep	13	(Fri)	05:45	06:07	86	12:15	76S	18:23	274	18:45
2024	Sep	14	(Sat)	05:45	06:07	86	12:15	76S	18:22	274	18:44
2024	Sep	15	(Sun)	05:46	06:07	87	12:15	75S	18:22	273	18:43
2024	Sep	16	(Mon)	05:46	06:07	87	12:14	75S	18:21	273	18:42
2024	Sep	17	(Tue)	05:46	06:08	87	12:14	75S	18:20	272	18:42
2024	Sep	18	(Wed)	05:46	06:08	88	12:13	74S	18:19	272	18:41
2024	Sep	19	(Thu)	05:46	06:08	88	12:13	74S	18:18	272	18:40
2024	Sep	20	(Fri)	05:46	06:08	89	12:13	73S	18:17	271	18:39
2024	Sep	21	(Sat)	05:46	06:08	89	12:12	73S	18:16	271	18:38
2024	Sep	22	(Sun)	05:47	06:08	89	12:12	73S	18:15	270	18:37
2024	Sep	23	(Mon)	05:47	06:09	90	12:12	72S	18:15	270	18:36
2024	Sep	24	(Tue)	05:47	06:09	90	12:11	72S	18:14	269	18:36
2024	Sep	25	(Wed)	05:47	06:09	91	12:11	72S	18:13	269	18:35
2024	Sep	26	(Thu)	05:47	06:09	91	12:11	71S	18:12	269	18:34
2024	Sep	27	(Fri)	05:47	06:09	92	12:10	71S	18:11	268	18:33
2024	Sep	28	(Sat)	05:48	06:09	92	12:10	70S	18:10	268	18:32
2024	Sep	29	(Sun)	05:48	06:10	92	12:10	70S	18:10	267	18:31
2024	Sep	30	(Mon)	05:48	06:10	93	12:09	70S	18:09	267	18:30
2024	Oct	01	(Tue)	05:48	06:10	93	12:09	69S	18:08	267	18:30
2024	Oct	02	(Wed)	05:48	06:10	94	12:09	69S	18:07	266	18:29
2024	Oct	03	(Thu)	05:49	06:10	94	12:08	68S	18:06	266	18:28
2024	Oct	04	(Fri)	05:49	06:10	94	12:08	68S	18:05	265	18:27
2024	Oct	05	(Sat)	05:49	06:11	95	12:08	68S	18:05	265	18:26

2024	Oct	06	(Sun)	05:49	06:11	95	12:07	67S	18:04	265	18:26
2024	Oct	07	(Mon)	05:49	06:11	96	12:07	67S	18:03	264	18:25
2024	Oct	08	(Tue)	05:49	06:11	96	12:07	66S	18:02	264	18:24
2024	Oct	09	(Wed)	05:50	06:12	96	12:07	66S	18:01	263	18:23
2024	Oct	10	(Thu)	05:50	06:12	97	12:06	66S	18:01	263	18:23
2024	Oct	11	(Fri)	05:50	06:12	97	12:06	65S	18:00	263	18:22
2024	Oct	12	(Sat)	05:50	06:12	98	12:06	65S	17:59	262	18:21
2024	Oct	13	(Sun)	05:51	06:13	98	12:06	65S	17:58	262	18:20
2024	Oct	14	(Mon)	05:51	06:13	98	12:05	64S	17:58	261	18:20
2024	Oct	15	(Tue)	05:51	06:13	99	12:05	64S	17:57	261	18:19
2024	Oct	16	(Wed)	05:51	06:13	99	12:05	64S	17:56	261	18:18
2024	Oct	17	(Thu)	05:52	06:14	100	12:05	63S	17:56	260	18:18
2024	Oct	18	(Fri)	05:52	06:14	100	12:05	63S	17:55	260	18:17
2024	Oct	19	(Sat)	05:52	06:14	100	12:04	62S	17:54	259	18:16
2024	Oct	20	(Sun)	05:52	06:14	101	12:04	62S	17:54	259	18:16
2024	Oct	21	(Mon)	05:53	06:15	101	12:04	62S	17:53	259	18:15
2024	Oct	22	(Tue)	05:53	06:15	101	12:04	61S	17:52	258	18:15
2024	Oct	23	(Wed)	05:53	06:15	102	12:04	61S	17:52	258	18:14
2024	Oct	24	(Thu)	05:54	06:16	102	12:04	61S	17:51	258	18:13
2024	Oct	25	(Fri)	05:54	06:16	103	12:03	60S	17:51	257	18:13
2024	Oct	26	(Sat)	05:54	06:16	103	12:03	60S	17:50	257	18:12
2024	Oct	27	(Sun)	05:55	06:17	103	12:03	60S	17:49	257	18:12
2024	Oct	28	(Mon)	05:55	06:17	104	12:03	59S	17:49	256	18:11
2024	Oct	29	(Tue)	05:55	06:18	104	12:03	59S	17:48	256	18:11
2024	Oct	30	(Wed)	05:56	06:18	104	12:03	59S	17:48	256	18:10
2024	Oct	31	(Thu)	05:56	06:18	105	12:03	58S	17:47	255	18:10
2024	Nov	01	(Fri)	05:56	06:19	105	12:03	58S	17:47	255	18:09
2024	Nov	02	(Sat)	05:57	06:19	105	12:03	58S	17:47	255	18:09
2024	Nov	03	(Sun)	05:57	06:20	106	12:03	57S	17:46	254	18:09
2024	Nov	04	(Mon)	05:58	06:20	106	12:03	57S	17:46	254	18:08
2024	Nov	05	(Tue)	05:58	06:21	106	12:03	57S	17:45	254	18:08
2024	Nov	06	(Wed)	05:58	06:21	107	12:03	56S	17:45	253	18:08
2024	Nov	07	(Thu)	05:59	06:21	107	12:03	56S	17:45	253	18:07
2024	Nov	08	(Fri)	05:59	06:22	107	12:03	56S	17:44	253	18:07
2024	Nov	09	(Sat)	06:00	06:22	108	12:03	56S	17:44	252	18:07
2024	Nov	10	(Sun)	06:00	06:23	108	12:03	55S	17:44	252	18:06
2024	Nov	11	(Mon)	06:01	06:23	108	12:03	55S	17:43	252	18:06
2024	Nov	12	(Tue)	06:01	06:24	108	12:04	55S	17:43	251	18:06
2024	Nov	13	(Wed)	06:02	06:24	109	12:04	54S	17:43	251	18:06
2024	Nov	14	(Thu)	06:02	06:25	109	12:04	54S	17:43	251	18:05
2024	Nov	15	(Fri)	06:03	06:26	109	12:04	54S	17:42	251	18:05
2024	Nov	16	(Sat)	06:03	06:26	110	12:04	54S	17:42	250	18:05
2024	Nov	17	(Sun)	06:04	06:27	110	12:04	53S	17:42	250	18:05
2024	Nov	18	(Mon)	06:04	06:27	110	12:05	53S	17:42	250	18:05
2024	Nov	19	(Tue)	06:05	06:28	110	12:05	53S	17:42	250	18:05
2024	Nov	20	(Wed)	06:05	06:28	111	12:05	53S	17:42	249	18:05
2024	Nov	21	(Thu)	06:06	06:29	111	12:05	53S	17:42	249	18:05
2024	Nov	22	(Fri)	06:06	06:29	111	12:06	52S	17:42	249	18:05
2024	Nov	23	(Sat)	06:07	06:30	111	12:06	52S	17:42	249	18:05
2024	Nov	24	(Sun)	06:07	06:31	111	12:06	52S	17:42	248	18:05
2024	Nov	25	(Mon)	06:08	06:31	112	12:06	52S	17:42	248	18:05
2024	Nov	26	(Tue)	06:08	06:32	112	12:07	52S	17:42	248	18:05
2024	Nov	27	(Wed)	06:09	06:32	112	12:07	51S	17:42	248	18:05
2024	Nov	28	(Thu)	06:10	06:33	112	12:07	51S	17:42	248	18:05
2024	Nov	29	(Fri)	06:10	06:34	112	12:08	51S	17:42	248	18:05
2024	Nov	30	(Sat)	06:11	06:34	113	12:08	51S	17:42	247	18:05
2024	Dec	01	(Sun)	06:11	06:35	113	12:09	51S	17:42	247	18:06
2024	Dec	02	(Mon)	06:12	06:35	113	12:09	51S	17:42	247	18:06
2024	Dec	03	(Tue)	06:13	06:36	113	12:09	50S	17:42	247	18:06
2024	Dec	04	(Wed)	06:13	06:37	113	12:10	50S	17:43	247	18:06
2024	Dec	05	(Thu)	06:14	06:37	113	12:10	50S	17:43	247	18:06
2024	Dec	06	(Fri)	06:14	06:38	113	12:11	50S	17:43	246	18:07
2024	Dec	07	(Sat)	06:15	06:38	114	12:11	50S	17:43	246	18:07
2024	Dec	08	(Sun)	06:15	06:39	114	12:11	50S	17:44	246	18:07
2024	Dec	09	(Mon)	06:16	06:40	114	12:12	50S	17:44	246	18:08
2024	Dec	10	(Tue)	06:17	06:40	114	12:12	50S	17:44	246	18:08
2024	Dec	11	(Wed)	06:17	06:41	114	12:13	50S	17:45	246	18:08

2024	Dec	12	(Thu)	06:18	06:41	114	12:13	49S	17:45	246	18:09
2024	Dec	13	(Fri)	06:18	06:42	114	12:14	49S	17:45	246	18:09
2024	Dec	14	(Sat)	06:19	06:43	114	12:14	49S	17:46	246	18:09
2024	Dec	15	(Sun)	06:19	06:43	114	12:15	49S	17:46	246	18:10
2024	Dec	16	(Mon)	06:20	06:44	114	12:15	49S	17:47	246	18:10
2024	Dec	17	(Tue)	06:20	06:44	114	12:16	49S	17:47	246	18:11
2024	Dec	18	(Wed)	06:21	06:45	114	12:16	49S	17:47	246	18:11
2024	Dec	19	(Thu)	06:22	06:45	114	12:17	49S	17:48	246	18:12
2024	Dec	20	(Fri)	06:22	06:46	114	12:17	49S	17:48	246	18:12
2024	Dec	21	(Sat)	06:23	06:46	114	12:18	49S	17:49	246	18:13
2024	Dec	22	(Sun)	06:23	06:47	114	12:18	49S	17:49	246	18:13
2024	Dec	23	(Mon)	06:24	06:47	114	12:19	49S	17:50	246	18:14
2024	Dec	24	(Tue)	06:24	06:48	114	12:19	49S	17:50	246	18:14
2024	Dec	25	(Wed)	06:24	06:48	114	12:20	49S	17:51	246	18:15
2024	Dec	26	(Thu)	06:25	06:49	114	12:20	49S	17:52	246	18:15
2024	Dec	27	(Fri)	06:25	06:49	114	12:21	49S	17:52	246	18:16
2024	Dec	28	(Sat)	06:26	06:49	114	12:21	49S	17:53	246	18:16
2024	Dec	29	(Sun)	06:26	06:50	114	12:22	49S	17:53	246	18:17
2024	Dec	30	(Mon)	06:27	06:50	114	12:22	49S	17:54	246	18:17
2024	Dec	31	(Tue)	06:27	06:51	114	12:23	50S	17:54	246	18:18

Moon

Phrea

Location: E100°08'31.1", N18°08'24.0", 0m
(Longitude referred to Greenwich meridian)

Time Zone: 7h 00m east of Greenwich

Date (Zone)			Rise Az.			Transit Alt.			Set Az.		
			h	m	°	h	m	°	h	m	°
2024	Jan	01 (Mon)	22:29	80		04:11	86S		10:37	282	
2024	Jan	02 (Tue)	23:16	86		04:51	80S		11:09	277	
2024	Jan	03 (Wed)				05:30	75S		11:40	271	
2024	Jan	04 (Thu)	00:03	92		06:09	69S		12:12	265	
2024	Jan	05 (Fri)	00:51	98		06:50	63S		12:45	259	
2024	Jan	06 (Sat)	01:41	104		07:33	57S		13:21	253	
2024	Jan	07 (Sun)	02:34	110		08:19	52S		14:01	248	
2024	Jan	08 (Mon)	03:32	114		09:11	48S		14:48	244	
2024	Jan	09 (Tue)	04:33	118		10:08	45S		15:42	241	
2024	Jan	10 (Wed)	05:37	120		11:10	44S		16:43	240	
2024	Jan	11 (Thu)	06:40	119		12:13	44S		17:49	242	
2024	Jan	12 (Fri)	07:39	117		13:16	47S		18:57	245	
2024	Jan	13 (Sat)	08:32	112		14:16	52S		20:03	250	
2024	Jan	14 (Sun)	09:20	106		15:11	58S		21:07	257	
2024	Jan	15 (Mon)	10:03	99		16:03	65S		22:07	264	
2024	Jan	16 (Tue)	10:43	92		16:51	72S		23:05	272	
2024	Jan	17 (Wed)	11:21	85		17:39	79S				
2024	Jan	18 (Thu)	12:00	78		18:27	86S		00:02	279	
2024	Jan	19 (Fri)	12:40	72		19:17	90N		00:59	285	
2024	Jan	20 (Sat)	13:24	67		20:08	86N		01:57	291	
2024	Jan	21 (Sun)	14:11	63		21:02	82N		02:56	296	
2024	Jan	22 (Mon)	15:03	61		21:57	81N		03:55	298	
2024	Jan	23 (Tue)	15:57	60		22:52	81N		04:52	300	
2024	Jan	24 (Wed)	16:53	61		23:46	82N		05:47	299	
2024	Jan	25 (Thu)	17:49	64					06:36	297	
2024	Jan	26 (Fri)	18:43	68		00:36	85N		07:20	294	
2024	Jan	27 (Sat)	19:34	73		01:23	89N		08:00	290	
2024	Jan	28 (Sun)	20:23	78		02:07	88S		08:36	284	
2024	Jan	29 (Mon)	21:10	84		02:48	82S		09:09	279	
2024	Jan	30 (Tue)	21:57	90		03:27	76S		09:40	273	
2024	Jan	31 (Wed)	22:44	96		04:06	71S		10:11	267	
2024	Feb	01 (Thu)	23:32	102		04:45	65S		10:43	261	
2024	Feb	02 (Fri)				05:26	59S		11:17	255	
2024	Feb	03 (Sat)	00:23	108		06:10	54S		11:55	250	
2024	Feb	04 (Sun)	01:17	113		06:58	49S		12:37	245	

2024 Feb 05 (Mon)	02:15 117	07:52 46S	13:26 242
2024 Feb 06 (Tue)	03:17 119	08:50 44S	14:22 240
2024 Feb 07 (Wed)	04:19 120	09:52 44S	15:25 240
2024 Feb 08 (Thu)	05:20 118	10:55 46S	16:32 243
2024 Feb 09 (Fri)	06:16 115	11:57 49S	17:40 247
2024 Feb 10 (Sat)	07:08 109	12:55 55S	18:47 254
2024 Feb 11 (Sun)	07:54 103	13:50 62S	19:51 261
2024 Feb 12 (Mon)	08:36 95	14:42 69S	20:52 269
2024 Feb 13 (Tue)	09:17 88	15:32 77S	21:52 276
2024 Feb 14 (Wed)	09:57 80	16:21 84S	22:51 283
2024 Feb 15 (Thu)	10:38 74	17:12 90S	23:50 290
2024 Feb 16 (Fri)	11:21 68	18:04 87N	
2024 Feb 17 (Sat)	12:08 64	18:58 83N	00:50 295
2024 Feb 18 (Sun)	12:59 61	19:53 81N	01:50 298
2024 Feb 19 (Mon)	13:52 60	20:48 80N	02:48 300
2024 Feb 20 (Tue)	14:48 61	21:42 81N	03:43 300
2024 Feb 21 (Wed)	15:43 63	22:33 84N	04:34 298
2024 Feb 22 (Thu)	16:37 67	23:20 88N	05:19 295
2024 Feb 23 (Fri)	17:29 71		06:00 291
2024 Feb 24 (Sat)	18:19 76	00:05 89S	06:36 286
2024 Feb 25 (Sun)	19:07 82	00:46 84S	07:10 281
2024 Feb 26 (Mon)	19:54 88	01:26 78S	07:42 275
2024 Feb 27 (Tue)	20:40 94	02:05 73S	08:13 269
2024 Feb 28 (Wed)	21:28 100	02:44 67S	08:44 263
2024 Feb 29 (Thu)	22:17 106	03:24 61S	09:17 257
2024 Mar 01 (Fri)	23:09 111	04:07 56S	09:53 251
2024 Mar 02 (Sat)		04:52 51S	10:32 247
2024 Mar 03 (Sun)	00:05 116	05:42 47S	11:17 243
2024 Mar 04 (Mon)	01:03 119	06:36 44S	12:09 240
2024 Mar 05 (Tue)	02:03 120	07:35 43S	13:07 240
2024 Mar 06 (Wed)	03:03 120	08:36 44S	14:10 241
2024 Mar 07 (Thu)	04:00 117	09:37 47S	15:16 245
2024 Mar 08 (Fri)	04:53 113	10:36 52S	16:23 250
2024 Mar 09 (Sat)	05:41 106	11:32 58S	17:28 257
2024 Mar 10 (Sun)	06:25 99	12:26 65S	18:31 264
2024 Mar 11 (Mon)	07:07 91	13:17 73S	19:33 272
2024 Mar 12 (Tue)	07:48 84	14:09 80S	20:34 280
2024 Mar 13 (Wed)	08:30 76	15:01 87S	21:36 287
2024 Mar 14 (Thu)	09:14 70	15:54 88N	22:38 293
2024 Mar 15 (Fri)	10:01 65	16:49 84N	23:40 297
2024 Mar 16 (Sat)	10:52 62	17:46 81N	
2024 Mar 17 (Sun)	11:46 60	18:42 80N	00:41 300
2024 Mar 18 (Mon)	12:42 60	19:37 81N	01:38 300
2024 Mar 19 (Tue)	13:38 62	20:29 83N	02:31 299
2024 Mar 20 (Wed)	14:33 65	21:18 86N	03:18 296
2024 Mar 21 (Thu)	15:25 69	22:03 91N	04:00 293
2024 Mar 22 (Fri)	16:15 75	22:46 86S	04:37 288
2024 Mar 23 (Sat)	17:04 80	23:26 80S	05:12 283
2024 Mar 24 (Sun)	17:51 86		05:44 277
2024 Mar 25 (Mon)	18:37 92	00:05 74S	06:15 271
2024 Mar 26 (Tue)	19:25 99	00:44 69S	06:46 265
2024 Mar 27 (Wed)	20:14 104	01:24 63S	07:19 259
2024 Mar 28 (Thu)	21:05 110	02:05 57S	07:53 253
2024 Mar 29 (Fri)	21:59 114	02:50 52S	08:31 248
2024 Mar 30 (Sat)	22:56 118	03:38 48S	09:14 244
2024 Mar 31 (Sun)	23:55 120	04:30 45S	10:03 241
2024 Apr 01 (Mon)		05:26 43S	10:57 240
2024 Apr 02 (Tue)	00:53 120	06:25 44S	11:57 240
2024 Apr 03 (Wed)	01:50 118	07:24 46S	13:00 243
2024 Apr 04 (Thu)	02:42 115	08:22 49S	14:04 247
2024 Apr 05 (Fri)	03:30 110	09:17 55S	15:08 253
2024 Apr 06 (Sat)	04:15 103	10:10 61S	16:10 260
2024 Apr 07 (Sun)	04:57 96	11:02 69S	17:11 268
2024 Apr 08 (Mon)	05:38 88	11:53 76S	18:13 276
2024 Apr 09 (Tue)	06:19 80	12:44 84S	19:15 284
2024 Apr 10 (Wed)	07:03 73	13:38 90S	20:18 290
2024 Apr 11 (Thu)	07:50 67	14:34 86N	21:22 295

2024 Apr 12 (Fri)	08:40 63	15:32 82N	22:26 299
2024 Apr 13 (Sat)	09:35 60	16:31 80N	23:27 300
2024 Apr 14 (Sun)	10:32 60	17:28 80N	
2024 Apr 15 (Mon)	11:30 61	18:23 82N	00:23 300
2024 Apr 16 (Tue)	12:26 64	19:14 85N	01:14 298
2024 Apr 17 (Wed)	13:20 68	20:00 89N	01:58 294
2024 Apr 18 (Thu)	14:11 73	20:44 88S	02:37 290
2024 Apr 19 (Fri)	15:00 78	21:25 82S	03:13 284
2024 Apr 20 (Sat)	15:47 84	22:04 76S	03:46 279
2024 Apr 21 (Sun)	16:34 90	22:43 71S	04:17 273
2024 Apr 22 (Mon)	17:21 96	23:22 65S	04:48 267
2024 Apr 23 (Tue)	18:10 102		05:20 261
2024 Apr 24 (Wed)	19:00 108	00:04 59S	05:54 255
2024 Apr 25 (Thu)	19:54 113	00:47 54S	06:31 250
2024 Apr 26 (Fri)	20:51 117	01:35 49S	07:13 245
2024 Apr 27 (Sat)	21:49 119	02:26 46S	08:00 242
2024 Apr 28 (Sun)	22:48 120	03:22 44S	08:53 240
2024 Apr 29 (Mon)	23:45 119	04:19 43S	09:51 240
2024 Apr 30 (Tue)		05:18 45S	10:52 242
2024 May 01 (Wed)	00:37 116	06:15 48S	11:55 246
2024 May 02 (Thu)	01:26 112	07:09 53S	12:56 251
2024 May 03 (Fri)	02:10 106	08:01 59S	13:57 257
2024 May 04 (Sat)	02:51 99	08:51 65S	14:56 265
2024 May 05 (Sun)	03:31 91	09:41 73S	15:55 272
2024 May 06 (Mon)	04:11 84	10:31 80S	16:56 280
2024 May 07 (Tue)	04:52 77	11:22 87S	17:58 287
2024 May 08 (Wed)	05:37 70	12:17 88N	19:01 293
2024 May 09 (Thu)	06:26 65	13:14 84N	20:06 297
2024 May 10 (Fri)	07:20 62	14:14 81N	21:10 300
2024 May 11 (Sat)	08:17 60	15:14 80N	22:10 300
2024 May 12 (Sun)	09:16 60	16:11 81N	23:05 299
2024 May 13 (Mon)	10:15 63	17:05 84N	23:52 296
2024 May 14 (Tue)	11:11 66	17:54 87N	
2024 May 15 (Wed)	12:04 71	18:40 89S	00:34 291
2024 May 16 (Thu)	12:54 76	19:22 84S	01:12 286
2024 May 17 (Fri)	13:42 82	20:01 79S	01:45 281
2024 May 18 (Sat)	14:28 88	20:40 73S	02:17 275
2024 May 19 (Sun)	15:15 94	21:20 67S	02:48 269
2024 May 20 (Mon)	16:03 100	22:00 61S	03:20 263
2024 May 21 (Tue)	16:53 106	22:43 56S	03:53 257
2024 May 22 (Wed)	17:47 111	23:30 51S	04:29 251
2024 May 23 (Thu)	18:43 116		05:10 247
2024 May 24 (Fri)	19:42 119	00:20 47S	05:56 243
2024 May 25 (Sat)	20:41 120	01:15 44S	06:47 241
2024 May 26 (Sun)	21:40 120	02:13 43S	07:45 240
2024 May 27 (Mon)	22:34 117	03:12 44S	08:46 241
2024 May 28 (Tue)	23:24 113	04:10 47S	09:49 245
2024 May 29 (Wed)		05:05 51S	10:51 249
2024 May 30 (Thu)	00:09 108	05:58 57S	11:51 255
2024 May 31 (Fri)	00:50 101	06:47 63S	12:49 262
2024 Jun 01 (Sat)	01:29 94	07:35 70S	13:46 270
2024 Jun 02 (Sun)	02:08 87	08:23 77S	14:44 277
2024 Jun 03 (Mon)	02:47 79	09:13 84S	15:43 284
2024 Jun 04 (Tue)	03:29 73	10:05 91S	16:45 290
2024 Jun 05 (Wed)	04:15 67	11:00 86N	17:48 295
2024 Jun 06 (Thu)	05:06 63	11:58 82N	18:52 299
2024 Jun 07 (Fri)	06:02 61	12:58 80N	19:54 300
2024 Jun 08 (Sat)	07:01 60	13:57 81N	20:52 299
2024 Jun 09 (Sun)	08:00 62	14:53 82N	21:43 297
2024 Jun 10 (Mon)	08:59 65	15:45 86N	22:28 293
2024 Jun 11 (Tue)	09:54 69	16:33 90N	23:08 288
2024 Jun 12 (Wed)	10:46 74	17:17 86S	23:44 283
2024 Jun 13 (Thu)	11:35 80	17:57 81S	
2024 Jun 14 (Fri)	12:22 86	18:37 75S	00:16 277
2024 Jun 15 (Sat)	13:09 92	19:16 69S	00:48 271
2024 Jun 16 (Sun)	13:56 98	19:55 63S	01:19 265
2024 Jun 17 (Mon)	14:45 104	20:37 58S	01:51 259

2024 Jun 18 (Tue)	15:36 109	21:22 53S	02:26 254
2024 Jun 19 (Wed)	16:31 114	22:11 48S	03:04 248
2024 Jun 20 (Thu)	17:30 118	23:05 45S	03:48 244
2024 Jun 21 (Fri)	18:30 120		04:38 241
2024 Jun 22 (Sat)	19:30 120	00:02 44S	05:34 240
2024 Jun 23 (Sun)	20:27 118	01:02 44S	06:36 241
2024 Jun 24 (Mon)	21:20 114	02:02 46S	07:39 243
2024 Jun 25 (Tue)	22:07 109	03:00 50S	08:43 248
2024 Jun 26 (Wed)	22:50 103	03:54 55S	09:45 254
2024 Jun 27 (Thu)	23:30 96	04:45 61S	10:44 260
2024 Jun 28 (Fri)		05:33 68S	11:42 268
2024 Jun 29 (Sat)	00:08 89	06:21 75S	12:39 275
2024 Jun 30 (Sun)	00:46 81	07:09 82S	13:37 282
2024 Jul 01 (Mon)	01:27 75	07:59 89S	14:36 289
2024 Jul 02 (Tue)	02:10 69	08:52 87N	15:37 294
2024 Jul 03 (Wed)	02:58 64	09:47 83N	16:40 298
2024 Jul 04 (Thu)	03:51 61	10:46 81N	17:42 300
2024 Jul 05 (Fri)	04:48 60	11:45 80N	18:41 300
2024 Jul 06 (Sat)	05:47 61	12:42 82N	19:34 298
2024 Jul 07 (Sun)	06:46 63	13:36 84N	20:22 295
2024 Jul 08 (Mon)	07:43 67	14:25 88N	21:04 290
2024 Jul 09 (Tue)	08:36 72	15:11 88S	21:41 285
2024 Jul 10 (Wed)	09:27 78	15:53 83S	22:15 279
2024 Jul 11 (Thu)	10:15 84	16:33 77S	22:47 273
2024 Jul 12 (Fri)	11:02 90	17:12 71S	23:18 267
2024 Jul 13 (Sat)	11:49 96	17:51 65S	23:49 261
2024 Jul 14 (Sun)	12:36 102	18:31 60S	
2024 Jul 15 (Mon)	13:26 107	19:14 55S	00:22 256
2024 Jul 16 (Tue)	14:19 112	20:01 50S	00:59 250
2024 Jul 17 (Wed)	15:15 116	20:52 46S	01:40 246
2024 Jul 18 (Thu)	16:15 119	21:48 44S	02:26 242
2024 Jul 19 (Fri)	17:15 120	22:47 43S	03:20 240
2024 Jul 20 (Sat)	18:15 119	23:48 45S	04:19 240
2024 Jul 21 (Sun)	19:10 116		05:23 242
2024 Jul 22 (Mon)	20:00 111	00:48 48S	06:29 246
2024 Jul 23 (Tue)	20:46 105	01:45 53S	07:33 251
2024 Jul 24 (Wed)	21:28 98	02:38 59S	08:35 258
2024 Jul 25 (Thu)	22:07 91	03:29 66S	09:35 265
2024 Jul 26 (Fri)	22:46 83	04:18 73S	10:33 273
2024 Jul 27 (Sat)	23:26 76	05:07 81S	11:32 280
2024 Jul 28 (Sun)		05:56 87S	12:31 287
2024 Jul 29 (Mon)	00:09 70	06:48 89N	13:31 293
2024 Jul 30 (Tue)	00:55 65	07:42 84N	14:33 297
2024 Jul 31 (Wed)	01:46 62	08:39 81N	15:34 299
2024 Aug 01 (Thu)	02:41 60	09:37 80N	16:33 300
2024 Aug 02 (Fri)	03:39 60	10:34 81N	17:28 299
2024 Aug 03 (Sat)	04:37 62	11:28 83N	18:17 296
2024 Aug 04 (Sun)	05:34 66	12:19 87N	19:00 292
2024 Aug 05 (Mon)	06:28 70	13:06 90S	19:39 287
2024 Aug 06 (Tue)	07:20 76	13:49 85S	20:14 281
2024 Aug 07 (Wed)	08:09 81	14:30 79S	20:46 276
2024 Aug 08 (Thu)	08:56 87	15:09 73S	21:17 269
2024 Aug 09 (Fri)	09:43 94	15:48 67S	21:49 263
2024 Aug 10 (Sat)	10:30 100	16:27 62S	22:21 258
2024 Aug 11 (Sun)	11:18 105	17:08 56S	22:55 252
2024 Aug 12 (Mon)	12:09 111	17:53 52S	23:33 247
2024 Aug 13 (Tue)	13:03 115	18:41 48S	
2024 Aug 14 (Wed)	14:00 118	19:34 45S	00:17 243
2024 Aug 15 (Thu)	14:59 120	20:31 43S	01:06 241
2024 Aug 16 (Fri)	15:58 120	21:30 44S	02:02 240
2024 Aug 17 (Sat)	16:55 118	22:31 46S	03:04 241
2024 Aug 18 (Sun)	17:48 114	23:29 50S	04:08 244
2024 Aug 19 (Mon)	18:37 108		05:14 249
2024 Aug 20 (Tue)	19:21 101	00:25 56S	06:18 255
2024 Aug 21 (Wed)	20:03 94	01:19 63S	07:21 262
2024 Aug 22 (Thu)	20:43 86	02:10 70S	08:22 270
2024 Aug 23 (Fri)	21:24 79	03:00 78S	09:22 278

2024 Aug 24 (Sat)	22:06	72	03:51	85S	10:22	285
2024 Aug 25 (Sun)	22:52	66	04:43	90N	11:24	291
2024 Aug 26 (Mon)	23:42	62	05:37	85N	12:27	296
2024 Aug 27 (Tue)			06:34	82N	13:29	299
2024 Aug 28 (Wed)	00:36	60	07:32	80N	14:29	300
2024 Aug 29 (Thu)	01:33	60	08:29	80N	15:24	300
2024 Aug 30 (Fri)	02:31	61	09:24	82N	16:15	297
2024 Aug 31 (Sat)	03:28	64	10:16	85N	16:59	294
2024 Sep 01 (Sun)	04:23	69	11:03	90N	17:39	289
2024 Sep 02 (Mon)	05:15	74	11:47	87S	18:15	283
2024 Sep 03 (Tue)	06:05	79	12:28	81S	18:47	278
2024 Sep 04 (Wed)	06:52	85	13:07	75S	19:19	272
2024 Sep 05 (Thu)	07:39	92	13:46	69S	19:50	265
2024 Sep 06 (Fri)	08:26	98	14:25	64S	20:21	260
2024 Sep 07 (Sat)	09:13	103	15:06	58S	20:55	254
2024 Sep 08 (Sun)	10:03	109	15:48	53S	21:31	249
2024 Sep 09 (Mon)	10:55	114	16:34	49S	22:11	245
2024 Sep 10 (Tue)	11:50	117	17:24	46S	22:57	242
2024 Sep 11 (Wed)	12:47	120	18:18	44S	23:49	240
2024 Sep 12 (Thu)	13:44	120	19:15	43S		
2024 Sep 13 (Fri)	14:41	119	20:14	45S	00:47	240
2024 Sep 14 (Sat)	15:35	116	21:12	48S	01:49	242
2024 Sep 15 (Sun)	16:24	111	22:09	53S	02:53	246
2024 Sep 16 (Mon)	17:10	105	23:03	59S	03:57	251
2024 Sep 17 (Tue)	17:53	98	23:55	67S	05:00	258
2024 Sep 18 (Wed)	18:34	90			06:02	266
2024 Sep 19 (Thu)	19:16	82	00:47	74S	07:04	274
2024 Sep 20 (Fri)	19:59	75	01:38	82S	08:06	282
2024 Sep 21 (Sat)	20:45	69	02:32	89S	09:10	289
2024 Sep 22 (Sun)	21:35	64	03:27	87N	10:14	294
2024 Sep 23 (Mon)	22:29	61	04:26	83N	11:19	298
2024 Sep 24 (Tue)	23:27	60	05:25	80N	12:22	300
2024 Sep 25 (Wed)			06:24	80N	13:20	300
2024 Sep 26 (Thu)	00:25	61	07:20	81N	14:12	298
2024 Sep 27 (Fri)	01:23	63	08:13	84N	14:59	295
2024 Sep 28 (Sat)	02:19	67	09:01	88N	15:40	290
2024 Sep 29 (Sun)	03:11	72	09:46	88S	16:16	285
2024 Sep 30 (Mon)	04:01	77	10:28	83S	16:50	280
2024 Oct 01 (Tue)	04:49	83	11:07	77S	17:21	274
2024 Oct 02 (Wed)	05:36	90	11:46	71S	17:52	267
2024 Oct 03 (Thu)	06:23	96	12:25	65S	18:23	261
2024 Oct 04 (Fri)	07:10	102	13:05	60S	18:56	256
2024 Oct 05 (Sat)	07:59	107	13:47	55S	19:31	250
2024 Oct 06 (Sun)	08:50	112	14:31	50S	20:10	246
2024 Oct 07 (Mon)	09:44	116	15:20	47S	20:54	242
2024 Oct 08 (Tue)	10:39	119	16:12	44S	21:43	240
2024 Oct 09 (Wed)	11:36	120	17:06	43S	22:37	240
2024 Oct 10 (Thu)	12:32	120	18:03	44S	23:36	241
2024 Oct 11 (Fri)	13:25	118	19:00	46S		
2024 Oct 12 (Sat)	14:14	114	19:55	51S	00:37	244
2024 Oct 13 (Sun)	15:00	108	20:48	56S	01:39	249
2024 Oct 14 (Mon)	15:43	102	21:40	63S	02:40	255
2024 Oct 15 (Tue)	16:24	94	22:31	70S	03:41	262
2024 Oct 16 (Wed)	17:05	86	23:22	78S	04:42	270
2024 Oct 17 (Thu)	17:47	79			05:44	278
2024 Oct 18 (Fri)	18:32	72	00:15	85S	06:48	285
2024 Oct 19 (Sat)	19:22	66	01:11	90N	07:54	292
2024 Oct 20 (Sun)	20:16	62	02:09	85N	09:01	297
2024 Oct 21 (Mon)	21:15	60	03:10	81N	10:07	299
2024 Oct 22 (Tue)	22:15	60	04:12	80N	11:09	300
2024 Oct 23 (Wed)	23:15	62	05:11	81N	12:06	299
2024 Oct 24 (Thu)			06:07	83N	12:56	296
2024 Oct 25 (Fri)	00:13	66	06:58	87N	13:39	292
2024 Oct 26 (Sat)	01:07	70	07:44	90S	14:17	287
2024 Oct 27 (Sun)	01:58	76	08:27	85S	14:51	281
2024 Oct 28 (Mon)	02:46	81	09:07	79S	15:23	276
2024 Oct 29 (Tue)	03:33	87	09:46	73S	15:54	269

2024 Oct 30 (Wed)	04:20 94	10:24 67S	16:25 263
2024 Oct 31 (Thu)	05:07 100	11:04 62S	16:57 258
2024 Nov 01 (Fri)	05:55 105	11:45 56S	17:32 252
2024 Nov 02 (Sat)	06:46 111	12:29 52S	18:10 247
2024 Nov 03 (Sun)	07:39 115	13:17 48S	18:52 243
2024 Nov 04 (Mon)	08:35 118	14:08 45S	19:40 241
2024 Nov 05 (Tue)	09:31 120	15:02 43S	20:33 240
2024 Nov 06 (Wed)	10:27 120	15:58 44S	21:29 240
2024 Nov 07 (Thu)	11:20 119	16:53 46S	22:29 243
2024 Nov 08 (Fri)	12:09 115	17:48 49S	23:29 247
2024 Nov 09 (Sat)	12:55 110	18:40 54S	
2024 Nov 10 (Sun)	13:37 104	19:30 60S	00:28 252
2024 Nov 11 (Mon)	14:17 98	20:19 67S	01:27 259
2024 Nov 12 (Tue)	14:57 90	21:08 74S	02:26 266
2024 Nov 13 (Wed)	15:37 83	21:59 81S	03:25 274
2024 Nov 14 (Thu)	16:20 75	22:52 88S	04:26 281
2024 Nov 15 (Fri)	17:06 69	23:49 87N	05:30 288
2024 Nov 16 (Sat)	17:59 64		06:36 294
2024 Nov 17 (Sun)	18:56 61	00:50 83N	07:44 298
2024 Nov 18 (Mon)	19:58 60	01:53 81N	08:50 300
2024 Nov 19 (Tue)	21:00 61	02:55 80N	09:52 300
2024 Nov 20 (Wed)	22:01 64	03:55 82N	10:46 297
2024 Nov 21 (Thu)	22:58 68	04:49 85N	11:33 294
2024 Nov 22 (Fri)	23:51 74	05:38 90N	12:14 289
2024 Nov 23 (Sat)		06:23 87S	12:51 283
2024 Nov 24 (Sun)	00:41 79	07:04 81S	13:24 278
2024 Nov 25 (Mon)	01:29 85	07:44 75S	13:55 271
2024 Nov 26 (Tue)	02:15 92	08:23 69S	14:26 265
2024 Nov 27 (Wed)	03:02 98	09:02 64S	14:58 260
2024 Nov 28 (Thu)	03:50 103	09:42 58S	15:31 254
2024 Nov 29 (Fri)	04:40 109	10:26 53S	16:08 249
2024 Nov 30 (Sat)	05:33 113	11:12 49S	16:49 245
2024 Dec 01 (Sun)	06:28 117	12:03 46S	17:36 242
2024 Dec 02 (Mon)	07:25 119	12:57 44S	18:28 240
2024 Dec 03 (Tue)	08:22 120	13:53 44S	19:24 240
2024 Dec 04 (Wed)	09:16 119	14:49 45S	20:23 242
2024 Dec 05 (Thu)	10:07 116	15:44 48S	21:24 246
2024 Dec 06 (Fri)	10:54 112	16:37 52S	22:23 251
2024 Dec 07 (Sat)	11:36 106	17:26 58S	23:21 257
2024 Dec 08 (Sun)	12:16 100	18:14 65S	
2024 Dec 09 (Mon)	12:54 93	19:02 72S	00:18 264
2024 Dec 10 (Tue)	13:32 85	19:50 79S	01:14 271
2024 Dec 11 (Wed)	14:12 78	20:40 85S	02:12 278
2024 Dec 12 (Thu)	14:56 72	21:33 90N	03:12 285
2024 Dec 13 (Fri)	15:44 66	22:31 85N	04:16 292
2024 Dec 14 (Sat)	16:38 62	23:32 82N	05:22 296
2024 Dec 15 (Sun)	17:38 60		06:29 299
2024 Dec 16 (Mon)	18:41 60	00:35 80N	07:33 300
2024 Dec 17 (Tue)	19:44 63	01:37 81N	08:31 299
2024 Dec 18 (Wed)	20:44 67	02:35 84N	09:23 295
2024 Dec 19 (Thu)	21:40 71	03:28 88N	10:08 291
2024 Dec 20 (Fri)	22:32 77	04:15 89S	10:47 286
2024 Dec 21 (Sat)	23:21 83	04:59 83S	11:22 280
2024 Dec 22 (Sun)		05:40 77S	11:54 274
2024 Dec 23 (Mon)	00:09 89	06:19 71S	12:25 268
2024 Dec 24 (Tue)	00:56 95	06:58 66S	12:57 262
2024 Dec 25 (Wed)	01:43 101	07:38 60S	13:29 256
2024 Dec 26 (Thu)	02:32 107	08:20 55S	14:05 251
2024 Dec 27 (Fri)	03:23 112	09:05 50S	14:44 246
2024 Dec 28 (Sat)	04:18 116	09:54 47S	15:29 243
2024 Dec 29 (Sun)	05:14 119	10:47 44S	16:19 240
2024 Dec 30 (Mon)	06:12 120	11:43 43S	17:14 240
2024 Dec 31 (Tue)	07:09 120	12:41 44S	18:14 241