

Sun

RoiEt

Location: E103°39'10.8", N16°03'03.5", 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)	05:43	06:33 114		12:09 52S	17:44 246		18:35
2024 Jan 02 (Tue)	05:43	06:33 114		12:09 52S	17:45 246		18:35
2024 Jan 03 (Wed)	05:43	06:34 114		12:10 52S	17:46 246		18:36
2024 Jan 04 (Thu)	05:44	06:34 114		12:10 52S	17:46 247		18:36
2024 Jan 05 (Fri)	05:44	06:34 113		12:10 52S	17:47 247		18:37
2024 Jan 06 (Sat)	05:44	06:34 113		12:11 52S	17:47 247		18:37
2024 Jan 07 (Sun)	05:45	06:35 113		12:11 52S	17:48 247		18:38
2024 Jan 08 (Mon)	05:45	06:35 113		12:12 52S	17:49 247		18:38
2024 Jan 09 (Tue)	05:45	06:35 113		12:12 52S	17:49 247		18:39
2024 Jan 10 (Wed)	05:46	06:36 113		12:13 53S	17:50 247		18:40
2024 Jan 11 (Thu)	05:46	06:36 113		12:13 53S	17:50 247		18:40
2024 Jan 12 (Fri)	05:46	06:36 112		12:13 53S	17:51 248		18:41
2024 Jan 13 (Sat)	05:46	06:36 112		12:14 53S	17:52 248		18:41
2024 Jan 14 (Sun)	05:47	06:36 112		12:14 53S	17:52 248		18:42
2024 Jan 15 (Mon)	05:47	06:36 112		12:15 53S	17:53 248		18:42
2024 Jan 16 (Tue)	05:47	06:37 112		12:15 54S	17:53 248		18:43
2024 Jan 17 (Wed)	05:47	06:37 112		12:15 54S	17:54 249		18:43
2024 Jan 18 (Thu)	05:47	06:37 111		12:16 54S	17:55 249		18:44
2024 Jan 19 (Fri)	05:47	06:37 111		12:16 54S	17:55 249		18:44
2024 Jan 20 (Sat)	05:48	06:37 111		12:16 54S	17:56 249		18:45
2024 Jan 21 (Sun)	05:48	06:37 111		12:16 55S	17:56 249		18:45
2024 Jan 22 (Mon)	05:48	06:37 110		12:17 55S	17:57 250		18:46
2024 Jan 23 (Tue)	05:48	06:37 110		12:17 55S	17:57 250		18:46
2024 Jan 24 (Wed)	05:48	06:37 110		12:17 55S	17:58 250		18:47
2024 Jan 25 (Thu)	05:48	06:37 110		12:18 56S	17:58 250		18:47
2024 Jan 26 (Fri)	05:48	06:37 109		12:18 56S	17:59 251		18:48
2024 Jan 27 (Sat)	05:48	06:37 109		12:18 56S	18:00 251		18:48
2024 Jan 28 (Sun)	05:48	06:36 109		12:18 56S	18:00 251		18:49
2024 Jan 29 (Mon)	05:48	06:36 109		12:18 57S	18:01 251		18:49
2024 Jan 30 (Tue)	05:48	06:36 108		12:19 57S	18:01 252		18:50
2024 Jan 31 (Wed)	05:47	06:36 108		12:19 57S	18:02 252		18:50
2024 Feb 01 (Thu)	05:47	06:36 108		12:19 57S	18:02 252		18:50
2024 Feb 02 (Fri)	05:47	06:36 107		12:19 58S	18:03 253		18:51
2024 Feb 03 (Sat)	05:47	06:35 107		12:19 58S	18:03 253		18:51
2024 Feb 04 (Sun)	05:47	06:35 107		12:19 58S	18:04 253		18:52
2024 Feb 05 (Mon)	05:47	06:35 107		12:19 59S	18:04 254		18:52
2024 Feb 06 (Tue)	05:46	06:34 106		12:19 59S	18:04 254		18:52
2024 Feb 07 (Wed)	05:46	06:34 106		12:19 59S	18:05 254		18:53
2024 Feb 08 (Thu)	05:46	06:34 106		12:19 60S	18:05 255		18:53
2024 Feb 09 (Fri)	05:46	06:34 105		12:20 60S	18:06 255		18:54
2024 Feb 10 (Sat)	05:45	06:33 105		12:20 60S	18:06 255		18:54
2024 Feb 11 (Sun)	05:45	06:33 105		12:20 60S	18:07 256		18:54
2024 Feb 12 (Mon)	05:45	06:32 104		12:20 61S	18:07 256		18:55
2024 Feb 13 (Tue)	05:44	06:32 104		12:20 61S	18:07 256		18:55
2024 Feb 14 (Wed)	05:44	06:32 104		12:20 61S	18:08 257		18:55
2024 Feb 15 (Thu)	05:44	06:31 103		12:20 62S	18:08 257		18:56
2024 Feb 16 (Fri)	05:43	06:31 103		12:19 62S	18:08 257		18:56
2024 Feb 17 (Sat)	05:43	06:30 103		12:19 62S	18:09 258		18:56
2024 Feb 18 (Sun)	05:42	06:30 102		12:19 63S	18:09 258		18:56
2024 Feb 19 (Mon)	05:42	06:29 102		12:19 63S	18:10 258		18:57
2024 Feb 20 (Tue)	05:42	06:29 101		12:19 64S	18:10 259		18:57
2024 Feb 21 (Wed)	05:41	06:28 101		12:19 64S	18:10 259		18:57
2024 Feb 22 (Thu)	05:41	06:28 101		12:19 64S	18:10 260		18:58
2024 Feb 23 (Fri)	05:40	06:27 100		12:19 65S	18:11 260		18:58
2024 Feb 24 (Sat)	05:40	06:27 100		12:19 65S	18:11 260		18:58

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

2024	May	02	(Thu)	04:52	05:41	74	12:02	90S	18:24	287	19:13
2024	May	03	(Fri)	04:51	05:40	73	12:02	90S	18:25	287	19:14
2024	May	04	(Sat)	04:51	05:40	73	12:02	91N	18:25	287	19:14
2024	May	05	(Sun)	04:50	05:39	73	12:02	90N	18:25	287	19:14
2024	May	06	(Mon)	04:49	05:39	72	12:02	90N	18:25	288	19:15
2024	May	07	(Tue)	04:49	05:38	72	12:02	90N	18:26	288	19:15
2024	May	08	(Wed)	04:48	05:38	72	12:02	90N	18:26	288	19:16
2024	May	09	(Thu)	04:48	05:38	72	12:02	89N	18:26	289	19:16
2024	May	10	(Fri)	04:47	05:37	71	12:02	89N	18:27	289	19:16
2024	May	11	(Sat)	04:47	05:37	71	12:02	89N	18:27	289	19:17
2024	May	12	(Sun)	04:47	05:36	71	12:02	89N	18:27	289	19:17
2024	May	13	(Mon)	04:46	05:36	71	12:02	88N	18:28	290	19:18
2024	May	14	(Tue)	04:46	05:36	70	12:02	88N	18:28	290	19:18
2024	May	15	(Wed)	04:45	05:35	70	12:02	88N	18:28	290	19:18
2024	May	16	(Thu)	04:45	05:35	70	12:02	88N	18:29	290	19:19
2024	May	17	(Fri)	04:45	05:35	70	12:02	87N	18:29	291	19:19
2024	May	18	(Sat)	04:44	05:35	69	12:02	87N	18:29	291	19:20
2024	May	19	(Sun)	04:44	05:34	69	12:02	87N	18:30	291	19:20
2024	May	20	(Mon)	04:44	05:34	69	12:02	87N	18:30	291	19:20
2024	May	21	(Tue)	04:43	05:34	69	12:02	86N	18:30	291	19:21
2024	May	22	(Wed)	04:43	05:34	68	12:02	86N	18:31	292	19:21
2024	May	23	(Thu)	04:43	05:34	68	12:02	86N	18:31	292	19:22
2024	May	24	(Fri)	04:43	05:33	68	12:02	86N	18:31	292	19:22
2024	May	25	(Sat)	04:42	05:33	68	12:02	86N	18:32	292	19:23
2024	May	26	(Sun)	04:42	05:33	68	12:02	86N	18:32	292	19:23
2024	May	27	(Mon)	04:42	05:33	67	12:03	85N	18:32	293	19:23
2024	May	28	(Tue)	04:42	05:33	67	12:03	85N	18:33	293	19:24
2024	May	29	(Wed)	04:42	05:33	67	12:03	85N	18:33	293	19:24
2024	May	30	(Thu)	04:41	05:33	67	12:03	85N	18:33	293	19:25
2024	May	31	(Fri)	04:41	05:33	67	12:03	85N	18:34	293	19:25
2024	Jun	01	(Sat)	04:41	05:33	67	12:03	85N	18:34	293	19:25
2024	Jun	02	(Sun)	04:41	05:33	67	12:03	85N	18:34	294	19:26
2024	Jun	03	(Mon)	04:41	05:33	66	12:04	84N	18:35	294	19:26
2024	Jun	04	(Tue)	04:41	05:33	66	12:04	84N	18:35	294	19:27
2024	Jun	05	(Wed)	04:41	05:33	66	12:04	84N	18:35	294	19:27
2024	Jun	06	(Thu)	04:41	05:33	66	12:04	84N	18:36	294	19:27
2024	Jun	07	(Fri)	04:41	05:33	66	12:04	84N	18:36	294	19:28
2024	Jun	08	(Sat)	04:41	05:33	66	12:05	84N	18:36	294	19:28
2024	Jun	09	(Sun)	04:41	05:33	66	12:05	84N	18:37	294	19:28
2024	Jun	10	(Mon)	04:41	05:33	66	12:05	84N	18:37	294	19:29
2024	Jun	11	(Tue)	04:41	05:33	66	12:05	84N	18:37	294	19:29
2024	Jun	12	(Wed)	04:41	05:33	66	12:05	84N	18:37	294	19:29
2024	Jun	13	(Thu)	04:41	05:33	66	12:06	84N	18:38	295	19:30
2024	Jun	14	(Fri)	04:41	05:33	65	12:06	83N	18:38	295	19:30
2024	Jun	15	(Sat)	04:42	05:34	65	12:06	83N	18:38	295	19:30
2024	Jun	16	(Sun)	04:42	05:34	65	12:06	83N	18:39	295	19:31
2024	Jun	17	(Mon)	04:42	05:34	65	12:06	83N	18:39	295	19:31
2024	Jun	18	(Tue)	04:42	05:34	65	12:07	83N	18:39	295	19:31
2024	Jun	19	(Wed)	04:42	05:34	65	12:07	83N	18:39	295	19:31
2024	Jun	20	(Thu)	04:42	05:35	65	12:07	83N	18:40	295	19:32
2024	Jun	21	(Fri)	04:43	05:35	65	12:07	83N	18:40	295	19:32
2024	Jun	22	(Sat)	04:43	05:35	65	12:07	83N	18:40	295	19:32
2024	Jun	23	(Sun)	04:43	05:35	65	12:08	83N	18:40	295	19:32
2024	Jun	24	(Mon)	04:43	05:35	65	12:08	83N	18:40	295	19:32
2024	Jun	25	(Tue)	04:44	05:36	65	12:08	83N	18:41	295	19:33
2024	Jun	26	(Wed)	04:44	05:36	65	12:08	83N	18:41	295	19:33
2024	Jun	27	(Thu)	04:44	05:36	65	12:09	83N	18:41	295	19:33
2024	Jun	28	(Fri)	04:44	05:36	65	12:09	84N	18:41	295	19:33
2024	Jun	29	(Sat)	04:45	05:37	66	12:09	84N	18:41	294	19:33
2024	Jun	30	(Sun)	04:45	05:37	66	12:09	84N	18:41	294	19:33
2024	Jul	01	(Mon)	04:45	05:37	66	12:09	84N	18:41	294	19:33
2024	Jul	02	(Tue)	04:46	05:38	66	12:10	84N	18:41	294	19:33
2024	Jul	03	(Wed)	04:46	05:38	66	12:10	84N	18:41	294	19:33
2024	Jul	04	(Thu)	04:46	05:38	66	12:10	84N	18:41	294	19:33
2024	Jul	05	(Fri)	04:47	05:39	66	12:10	84N	18:42	294	19:33
2024	Jul	06	(Sat)	04:47	05:39	66	12:10	84N	18:42	294	19:33
2024	Jul	07	(Sun)	04:47	05:39	66	12:10	84N	18:42	294	19:33

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

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

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

Sun

RoiEt

Location: E103°39'10.8", N16°03'03.5", 0m
(Longitude referred to Greenwich meridian)

Time Zone: 7h 00m east of Greenwich

Date (Zone)				Begin Civil Twilight	Rise	Az.	Transit	Alt.	Set	Az.	End Civil Twilight
				h m	h m	°	h m	°	h m	°	h m
2024	Jan	01	(Mon)	06:09	06:33	114	12:09	52S	17:44	246	18:08
2024	Jan	02	(Tue)	06:10	06:33	114	12:09	52S	17:45	246	18:08
2024	Jan	03	(Wed)	06:10	06:34	114	12:10	52S	17:46	246	18:09
2024	Jan	04	(Thu)	06:11	06:34	114	12:10	52S	17:46	247	18:09
2024	Jan	05	(Fri)	06:11	06:34	113	12:10	52S	17:47	247	18:10
2024	Jan	06	(Sat)	06:11	06:34	113	12:11	52S	17:47	247	18:11
2024	Jan	07	(Sun)	06:12	06:35	113	12:11	52S	17:48	247	18:11
2024	Jan	08	(Mon)	06:12	06:35	113	12:12	52S	17:49	247	18:12
2024	Jan	09	(Tue)	06:12	06:35	113	12:12	52S	17:49	247	18:12
2024	Jan	10	(Wed)	06:12	06:36	113	12:13	53S	17:50	247	18:13
2024	Jan	11	(Thu)	06:13	06:36	113	12:13	53S	17:50	247	18:14

2024	Jan	12	(Fri)	06:13	06:36	112	12:13	53S	17:51	248	18:14
2024	Jan	13	(Sat)	06:13	06:36	112	12:14	53S	17:52	248	18:15
2024	Jan	14	(Sun)	06:13	06:36	112	12:14	53S	17:52	248	18:15
2024	Jan	15	(Mon)	06:13	06:36	112	12:15	53S	17:53	248	18:16
2024	Jan	16	(Tue)	06:13	06:37	112	12:15	54S	17:53	248	18:16
2024	Jan	17	(Wed)	06:14	06:37	112	12:15	54S	17:54	249	18:17
2024	Jan	18	(Thu)	06:14	06:37	111	12:16	54S	17:55	249	18:17
2024	Jan	19	(Fri)	06:14	06:37	111	12:16	54S	17:55	249	18:18
2024	Jan	20	(Sat)	06:14	06:37	111	12:16	54S	17:56	249	18:19
2024	Jan	21	(Sun)	06:14	06:37	111	12:16	55S	17:56	249	18:19
2024	Jan	22	(Mon)	06:14	06:37	110	12:17	55S	17:57	250	18:20
2024	Jan	23	(Tue)	06:14	06:37	110	12:17	55S	17:57	250	18:20
2024	Jan	24	(Wed)	06:14	06:37	110	12:17	55S	17:58	250	18:21
2024	Jan	25	(Thu)	06:14	06:37	110	12:18	56S	17:58	250	18:21
2024	Jan	26	(Fri)	06:14	06:37	109	12:18	56S	17:59	251	18:22
2024	Jan	27	(Sat)	06:14	06:37	109	12:18	56S	18:00	251	18:22
2024	Jan	28	(Sun)	06:14	06:36	109	12:18	56S	18:00	251	18:23
2024	Jan	29	(Mon)	06:14	06:36	109	12:18	57S	18:01	251	18:23
2024	Jan	30	(Tue)	06:14	06:36	108	12:19	57S	18:01	252	18:24
2024	Jan	31	(Wed)	06:13	06:36	108	12:19	57S	18:02	252	18:24
2024	Feb	01	(Thu)	06:13	06:36	108	12:19	57S	18:02	252	18:25
2024	Feb	02	(Fri)	06:13	06:36	107	12:19	58S	18:03	253	18:25
2024	Feb	03	(Sat)	06:13	06:35	107	12:19	58S	18:03	253	18:25
2024	Feb	04	(Sun)	06:13	06:35	107	12:19	58S	18:04	253	18:26
2024	Feb	05	(Mon)	06:12	06:35	107	12:19	59S	18:04	254	18:26
2024	Feb	06	(Tue)	06:12	06:34	106	12:19	59S	18:04	254	18:27
2024	Feb	07	(Wed)	06:12	06:34	106	12:19	59S	18:05	254	18:27
2024	Feb	08	(Thu)	06:12	06:34	106	12:19	60S	18:05	255	18:28
2024	Feb	09	(Fri)	06:11	06:34	105	12:20	60S	18:06	255	18:28
2024	Feb	10	(Sat)	06:11	06:33	105	12:20	60S	18:06	255	18:28
2024	Feb	11	(Sun)	06:11	06:33	105	12:20	60S	18:07	256	18:29
2024	Feb	12	(Mon)	06:10	06:32	104	12:20	61S	18:07	256	18:29
2024	Feb	13	(Tue)	06:10	06:32	104	12:20	61S	18:07	256	18:29
2024	Feb	14	(Wed)	06:10	06:32	104	12:20	61S	18:08	257	18:30
2024	Feb	15	(Thu)	06:09	06:31	103	12:20	62S	18:08	257	18:30
2024	Feb	16	(Fri)	06:09	06:31	103	12:19	62S	18:08	257	18:30
2024	Feb	17	(Sat)	06:08	06:30	103	12:19	62S	18:09	258	18:31
2024	Feb	18	(Sun)	06:08	06:30	102	12:19	63S	18:09	258	18:31
2024	Feb	19	(Mon)	06:07	06:29	102	12:19	63S	18:10	258	18:31
2024	Feb	20	(Tue)	06:07	06:29	101	12:19	64S	18:10	259	18:32
2024	Feb	21	(Wed)	06:06	06:28	101	12:19	64S	18:10	259	18:32
2024	Feb	22	(Thu)	06:06	06:28	101	12:19	64S	18:10	260	18:32
2024	Feb	23	(Fri)	06:05	06:27	100	12:19	65S	18:11	260	18:33
2024	Feb	24	(Sat)	06:05	06:27	100	12:19	65S	18:11	260	18:33
2024	Feb	25	(Sun)	06:04	06:26	100	12:19	65S	18:11	261	18:33
2024	Feb	26	(Mon)	06:04	06:25	99	12:18	66S	18:12	261	18:33
2024	Feb	27	(Tue)	06:03	06:25	99	12:18	66S	18:12	261	18:34
2024	Feb	28	(Wed)	06:02	06:24	98	12:18	67S	18:12	262	18:34
2024	Feb	29	(Thu)	06:02	06:24	98	12:18	67S	18:12	262	18:34
2024	Mar	01	(Fri)	06:01	06:23	98	12:18	67S	18:13	263	18:34
2024	Mar	02	(Sat)	06:01	06:22	97	12:17	68S	18:13	263	18:35
2024	Mar	03	(Sun)	06:00	06:22	97	12:17	68S	18:13	263	18:35
2024	Mar	04	(Mon)	05:59	06:21	96	12:17	68S	18:13	264	18:35
2024	Mar	05	(Tue)	05:59	06:20	96	12:17	69S	18:14	264	18:35
2024	Mar	06	(Wed)	05:58	06:20	96	12:17	69S	18:14	265	18:35
2024	Mar	07	(Thu)	05:57	06:19	95	12:16	70S	18:14	265	18:36
2024	Mar	08	(Fri)	05:57	06:18	95	12:16	70S	18:14	265	18:36
2024	Mar	09	(Sat)	05:56	06:18	94	12:16	70S	18:14	266	18:36
2024	Mar	10	(Sun)	05:55	06:17	94	12:16	71S	18:15	266	18:36
2024	Mar	11	(Mon)	05:55	06:16	94	12:15	71S	18:15	267	18:36
2024	Mar	12	(Tue)	05:54	06:15	93	12:15	72S	18:15	267	18:36
2024	Mar	13	(Wed)	05:53	06:15	93	12:15	72S	18:15	267	18:37
2024	Mar	14	(Thu)	05:52	06:14	92	12:15	72S	18:15	268	18:37
2024	Mar	15	(Fri)	05:52	06:13	92	12:14	73S	18:16	268	18:37
2024	Mar	16	(Sat)	05:51	06:12	91	12:14	73S	18:16	269	18:37
2024	Mar	17	(Sun)	05:50	06:12	91	12:14	74S	18:16	269	18:37
2024	Mar	18	(Mon)	05:49	06:11	91	12:13	74S	18:16	270	18:38

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

2024	May	25	(Sat)	05:10	05:33	68	12:02	86N	18:32	292	18:55
2024	May	26	(Sun)	05:10	05:33	68	12:02	86N	18:32	292	18:55
2024	May	27	(Mon)	05:10	05:33	67	12:03	85N	18:32	293	18:56
2024	May	28	(Tue)	05:09	05:33	67	12:03	85N	18:33	293	18:56
2024	May	29	(Wed)	05:09	05:33	67	12:03	85N	18:33	293	18:56
2024	May	30	(Thu)	05:09	05:33	67	12:03	85N	18:33	293	18:57
2024	May	31	(Fri)	05:09	05:33	67	12:03	85N	18:34	293	18:57
2024	Jun	01	(Sat)	05:09	05:33	67	12:03	85N	18:34	293	18:58
2024	Jun	02	(Sun)	05:09	05:33	67	12:03	85N	18:34	294	18:58
2024	Jun	03	(Mon)	05:09	05:33	66	12:04	84N	18:35	294	18:58
2024	Jun	04	(Tue)	05:09	05:33	66	12:04	84N	18:35	294	18:59
2024	Jun	05	(Wed)	05:09	05:33	66	12:04	84N	18:35	294	18:59
2024	Jun	06	(Thu)	05:09	05:33	66	12:04	84N	18:36	294	18:59
2024	Jun	07	(Fri)	05:09	05:33	66	12:04	84N	18:36	294	19:00
2024	Jun	08	(Sat)	05:09	05:33	66	12:05	84N	18:36	294	19:00
2024	Jun	09	(Sun)	05:09	05:33	66	12:05	84N	18:37	294	19:00
2024	Jun	10	(Mon)	05:09	05:33	66	12:05	84N	18:37	294	19:01
2024	Jun	11	(Tue)	05:09	05:33	66	12:05	84N	18:37	294	19:01
2024	Jun	12	(Wed)	05:09	05:33	66	12:05	84N	18:37	294	19:01
2024	Jun	13	(Thu)	05:10	05:33	66	12:06	84N	18:38	295	19:02
2024	Jun	14	(Fri)	05:10	05:33	65	12:06	83N	18:38	295	19:02
2024	Jun	15	(Sat)	05:10	05:34	65	12:06	83N	18:38	295	19:02
2024	Jun	16	(Sun)	05:10	05:34	65	12:06	83N	18:39	295	19:02
2024	Jun	17	(Mon)	05:10	05:34	65	12:06	83N	18:39	295	19:03
2024	Jun	18	(Tue)	05:10	05:34	65	12:07	83N	18:39	295	19:03
2024	Jun	19	(Wed)	05:10	05:34	65	12:07	83N	18:39	295	19:03
2024	Jun	20	(Thu)	05:11	05:35	65	12:07	83N	18:40	295	19:03
2024	Jun	21	(Fri)	05:11	05:35	65	12:07	83N	18:40	295	19:04
2024	Jun	22	(Sat)	05:11	05:35	65	12:07	83N	18:40	295	19:04
2024	Jun	23	(Sun)	05:11	05:35	65	12:08	83N	18:40	295	19:04
2024	Jun	24	(Mon)	05:12	05:35	65	12:08	83N	18:40	295	19:04
2024	Jun	25	(Tue)	05:12	05:36	65	12:08	83N	18:41	295	19:04
2024	Jun	26	(Wed)	05:12	05:36	65	12:08	83N	18:41	295	19:05
2024	Jun	27	(Thu)	05:12	05:36	65	12:09	83N	18:41	295	19:05
2024	Jun	28	(Fri)	05:13	05:36	65	12:09	84N	18:41	295	19:05
2024	Jun	29	(Sat)	05:13	05:37	66	12:09	84N	18:41	294	19:05
2024	Jun	30	(Sun)	05:13	05:37	66	12:09	84N	18:41	294	19:05
2024	Jul	01	(Mon)	05:14	05:37	66	12:09	84N	18:41	294	19:05
2024	Jul	02	(Tue)	05:14	05:38	66	12:10	84N	18:41	294	19:05
2024	Jul	03	(Wed)	05:14	05:38	66	12:10	84N	18:41	294	19:05
2024	Jul	04	(Thu)	05:14	05:38	66	12:10	84N	18:41	294	19:05
2024	Jul	05	(Fri)	05:15	05:39	66	12:10	84N	18:42	294	19:05
2024	Jul	06	(Sat)	05:15	05:39	66	12:10	84N	18:42	294	19:05
2024	Jul	07	(Sun)	05:15	05:39	66	12:10	84N	18:42	294	19:05
2024	Jul	08	(Mon)	05:16	05:39	66	12:11	84N	18:42	294	19:05
2024	Jul	09	(Tue)	05:16	05:40	66	12:11	84N	18:42	293	19:05
2024	Jul	10	(Wed)	05:16	05:40	67	12:11	85N	18:42	293	19:05
2024	Jul	11	(Thu)	05:17	05:40	67	12:11	85N	18:41	293	19:05
2024	Jul	12	(Fri)	05:17	05:41	67	12:11	85N	18:41	293	19:05
2024	Jul	13	(Sat)	05:17	05:41	67	12:11	85N	18:41	293	19:05
2024	Jul	14	(Sun)	05:18	05:41	67	12:11	85N	18:41	293	19:05
2024	Jul	15	(Mon)	05:18	05:42	67	12:11	85N	18:41	293	19:05
2024	Jul	16	(Tue)	05:19	05:42	68	12:12	85N	18:41	292	19:04
2024	Jul	17	(Wed)	05:19	05:42	68	12:12	86N	18:41	292	19:04
2024	Jul	18	(Thu)	05:19	05:43	68	12:12	86N	18:41	292	19:04
2024	Jul	19	(Fri)	05:20	05:43	68	12:12	86N	18:40	292	19:04
2024	Jul	20	(Sat)	05:20	05:43	68	12:12	86N	18:40	292	19:04
2024	Jul	21	(Sun)	05:20	05:44	68	12:12	86N	18:40	291	19:03
2024	Jul	22	(Mon)	05:21	05:44	69	12:12	87N	18:40	291	19:03
2024	Jul	23	(Tue)	05:21	05:44	69	12:12	87N	18:40	291	19:03
2024	Jul	24	(Wed)	05:21	05:44	69	12:12	87N	18:39	291	19:02
2024	Jul	25	(Thu)	05:22	05:45	69	12:12	87N	18:39	291	19:02
2024	Jul	26	(Fri)	05:22	05:45	70	12:12	87N	18:39	290	19:02
2024	Jul	27	(Sat)	05:22	05:45	70	12:12	88N	18:38	290	19:01
2024	Jul	28	(Sun)	05:23	05:46	70	12:12	88N	18:38	290	19:01
2024	Jul	29	(Mon)	05:23	05:46	70	12:12	88N	18:38	290	19:01
2024	Jul	30	(Tue)	05:23	05:46	71	12:12	88N	18:37	289	19:00

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

2024	Oct	06	(Sun)	05:34	05:56	95	11:53	69S	17:51	265	18:12
2024	Oct	07	(Mon)	05:35	05:56	96	11:53	69S	17:50	264	18:11
2024	Oct	08	(Tue)	05:35	05:56	96	11:53	69S	17:49	264	18:11
2024	Oct	09	(Wed)	05:35	05:57	96	11:53	68S	17:48	263	18:10
2024	Oct	10	(Thu)	05:35	05:57	97	11:52	68S	17:48	263	18:09
2024	Oct	11	(Fri)	05:35	05:57	97	11:52	67S	17:47	263	18:09
2024	Oct	12	(Sat)	05:35	05:57	98	11:52	67S	17:46	262	18:08
2024	Oct	13	(Sun)	05:36	05:57	98	11:52	67S	17:46	262	18:07
2024	Oct	14	(Mon)	05:36	05:57	98	11:51	66S	17:45	261	18:07
2024	Oct	15	(Tue)	05:36	05:58	99	11:51	66S	17:44	261	18:06
2024	Oct	16	(Wed)	05:36	05:58	99	11:51	66S	17:44	261	18:05
2024	Oct	17	(Thu)	05:36	05:58	99	11:51	65S	17:43	260	18:05
2024	Oct	18	(Fri)	05:37	05:58	100	11:50	65S	17:42	260	18:04
2024	Oct	19	(Sat)	05:37	05:59	100	11:50	65S	17:42	260	18:04
2024	Oct	20	(Sun)	05:37	05:59	101	11:50	64S	17:41	259	18:03
2024	Oct	21	(Mon)	05:37	05:59	101	11:50	64S	17:41	259	18:03
2024	Oct	22	(Tue)	05:37	05:59	101	11:50	63S	17:40	258	18:02
2024	Oct	23	(Wed)	05:38	06:00	102	11:50	63S	17:40	258	18:01
2024	Oct	24	(Thu)	05:38	06:00	102	11:50	63S	17:39	258	18:01
2024	Oct	25	(Fri)	05:38	06:00	102	11:49	62S	17:39	257	18:00
2024	Oct	26	(Sat)	05:38	06:00	103	11:49	62S	17:38	257	18:00
2024	Oct	27	(Sun)	05:39	06:01	103	11:49	62S	17:38	257	18:00
2024	Oct	28	(Mon)	05:39	06:01	103	11:49	61S	17:37	256	17:59
2024	Oct	29	(Tue)	05:39	06:01	104	11:49	61S	17:37	256	17:59
2024	Oct	30	(Wed)	05:40	06:02	104	11:49	61S	17:36	256	17:58
2024	Oct	31	(Thu)	05:40	06:02	105	11:49	60S	17:36	255	17:58
2024	Nov	01	(Fri)	05:40	06:02	105	11:49	60S	17:35	255	17:57
2024	Nov	02	(Sat)	05:41	06:03	105	11:49	60S	17:35	255	17:57
2024	Nov	03	(Sun)	05:41	06:03	106	11:49	59S	17:35	254	17:57
2024	Nov	04	(Mon)	05:41	06:04	106	11:49	59S	17:34	254	17:56
2024	Nov	05	(Tue)	05:42	06:04	106	11:49	59S	17:34	254	17:56
2024	Nov	06	(Wed)	05:42	06:04	106	11:49	59S	17:33	253	17:56
2024	Nov	07	(Thu)	05:42	06:05	107	11:49	58S	17:33	253	17:56
2024	Nov	08	(Fri)	05:43	06:05	107	11:49	58S	17:33	253	17:55
2024	Nov	09	(Sat)	05:43	06:06	107	11:49	58S	17:33	252	17:55
2024	Nov	10	(Sun)	05:44	06:06	108	11:49	57S	17:32	252	17:55
2024	Nov	11	(Mon)	05:44	06:07	108	11:49	57S	17:32	252	17:55
2024	Nov	12	(Tue)	05:44	06:07	108	11:50	57S	17:32	252	17:54
2024	Nov	13	(Wed)	05:45	06:07	109	11:50	57S	17:32	251	17:54
2024	Nov	14	(Thu)	05:45	06:08	109	11:50	56S	17:32	251	17:54
2024	Nov	15	(Fri)	05:46	06:08	109	11:50	56S	17:31	251	17:54
2024	Nov	16	(Sat)	05:46	06:09	109	11:50	56S	17:31	251	17:54
2024	Nov	17	(Sun)	05:47	06:09	110	11:50	56S	17:31	250	17:54
2024	Nov	18	(Mon)	05:47	06:10	110	11:51	55S	17:31	250	17:54
2024	Nov	19	(Tue)	05:48	06:10	110	11:51	55S	17:31	250	17:54
2024	Nov	20	(Wed)	05:48	06:11	110	11:51	55S	17:31	250	17:54
2024	Nov	21	(Thu)	05:49	06:12	111	11:51	55S	17:31	249	17:54
2024	Nov	22	(Fri)	05:49	06:12	111	11:52	54S	17:31	249	17:54
2024	Nov	23	(Sat)	05:50	06:13	111	11:52	54S	17:31	249	17:54
2024	Nov	24	(Sun)	05:50	06:13	111	11:52	54S	17:31	249	17:54
2024	Nov	25	(Mon)	05:51	06:14	111	11:52	54S	17:31	248	17:54
2024	Nov	26	(Tue)	05:51	06:14	112	11:53	54S	17:31	248	17:54
2024	Nov	27	(Wed)	05:52	06:15	112	11:53	53S	17:31	248	17:54
2024	Nov	28	(Thu)	05:52	06:15	112	11:53	53S	17:31	248	17:54
2024	Nov	29	(Fri)	05:53	06:16	112	11:54	53S	17:31	248	17:55
2024	Nov	30	(Sat)	05:53	06:17	112	11:54	53S	17:32	248	17:55
2024	Dec	01	(Sun)	05:54	06:17	113	11:54	53S	17:32	247	17:55
2024	Dec	02	(Mon)	05:55	06:18	113	11:55	53S	17:32	247	17:55
2024	Dec	03	(Tue)	05:55	06:18	113	11:55	52S	17:32	247	17:55
2024	Dec	04	(Wed)	05:56	06:19	113	11:56	52S	17:32	247	17:56
2024	Dec	05	(Thu)	05:56	06:19	113	11:56	52S	17:33	247	17:56
2024	Dec	06	(Fri)	05:57	06:20	113	11:56	52S	17:33	247	17:56
2024	Dec	07	(Sat)	05:57	06:21	113	11:57	52S	17:33	247	17:56
2024	Dec	08	(Sun)	05:58	06:21	113	11:57	52S	17:33	246	17:57
2024	Dec	09	(Mon)	05:58	06:22	114	11:58	52S	17:34	246	17:57
2024	Dec	10	(Tue)	05:59	06:22	114	11:58	52S	17:34	246	17:57
2024	Dec	11	(Wed)	06:00	06:23	114	11:59	52S	17:34	246	17:58

2024	Dec 12	(Thu)	06:00	06:23	114	11:59	52S	17:35	246	17:58
2024	Dec 13	(Fri)	06:01	06:24	114	12:00	51S	17:35	246	17:59
2024	Dec 14	(Sat)	06:01	06:25	114	12:00	51S	17:36	246	17:59
2024	Dec 15	(Sun)	06:02	06:25	114	12:01	51S	17:36	246	17:59
2024	Dec 16	(Mon)	06:02	06:26	114	12:01	51S	17:36	246	18:00
2024	Dec 17	(Tue)	06:03	06:26	114	12:02	51S	17:37	246	18:00
2024	Dec 18	(Wed)	06:03	06:27	114	12:02	51S	17:37	246	18:01
2024	Dec 19	(Thu)	06:04	06:27	114	12:03	51S	17:38	246	18:01
2024	Dec 20	(Fri)	06:04	06:28	114	12:03	51S	17:38	246	18:02
2024	Dec 21	(Sat)	06:05	06:28	114	12:04	51S	17:39	246	18:02
2024	Dec 22	(Sun)	06:05	06:29	114	12:04	51S	17:39	246	18:03
2024	Dec 23	(Mon)	06:06	06:29	114	12:05	51S	17:40	246	18:03
2024	Dec 24	(Tue)	06:06	06:30	114	12:05	51S	17:40	246	18:04
2024	Dec 25	(Wed)	06:07	06:30	114	12:06	51S	17:41	246	18:04
2024	Dec 26	(Thu)	06:07	06:31	114	12:06	51S	17:41	246	18:05
2024	Dec 27	(Fri)	06:08	06:31	114	12:07	51S	17:42	246	18:05
2024	Dec 28	(Sat)	06:08	06:32	114	12:07	51S	17:43	246	18:06
2024	Dec 29	(Sun)	06:09	06:32	114	12:08	51S	17:43	246	18:06
2024	Dec 30	(Mon)	06:09	06:32	114	12:08	52S	17:44	246	18:07
2024	Dec 31	(Tue)	06:09	06:33	114	12:08	52S	17:44	246	18:08

Moon

RoiEt

Location: E103°39'10.8", N16°03'03.5", 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	°
2024	Jan 01	(Mon)	22:16	80	03:56	88S	10:20	282
2024	Jan 02	(Tue)	23:02	86	04:37	82S	10:54	277
2024	Jan 03	(Wed)	23:48	92	05:16	77S	11:26	271
2024	Jan 04	(Thu)			05:55	71S	11:58	265
2024	Jan 05	(Fri)	00:35	98	06:35	65S	12:32	259
2024	Jan 06	(Sat)	01:24	104	07:18	59S	13:09	253
2024	Jan 07	(Sun)	02:16	109	08:05	54S	13:51	248
2024	Jan 08	(Mon)	03:13	114	08:56	50S	14:38	244
2024	Jan 09	(Tue)	04:14	118	09:53	47S	15:32	241
2024	Jan 10	(Wed)	05:17	119	10:55	46S	16:33	241
2024	Jan 11	(Thu)	06:20	119	11:59	47S	17:39	242
2024	Jan 12	(Fri)	07:20	116	13:02	49S	18:46	245
2024	Jan 13	(Sat)	08:14	112	14:01	54S	19:52	251
2024	Jan 14	(Sun)	09:03	106	14:56	60S	20:54	257
2024	Jan 15	(Mon)	09:47	99	15:48	67S	21:53	264
2024	Jan 16	(Tue)	10:28	92	16:37	74S	22:50	272
2024	Jan 17	(Wed)	11:07	85	17:25	81S	23:46	279
2024	Jan 18	(Thu)	11:47	78	18:13	88S		
2024	Jan 19	(Fri)	12:29	72	19:02	88N	00:42	285
2024	Jan 20	(Sat)	13:13	67	19:54	83N	01:39	291
2024	Jan 21	(Sun)	14:01	63	20:47	80N	02:37	295
2024	Jan 22	(Mon)	14:53	61	21:43	79N	03:35	298
2024	Jan 23	(Tue)	15:48	61	22:38	79N	04:33	299
2024	Jan 24	(Wed)	16:43	62	23:31	80N	05:27	299
2024	Jan 25	(Thu)	17:39	64			06:17	297
2024	Jan 26	(Fri)	18:32	68	00:22	83N	07:02	294
2024	Jan 27	(Sat)	19:22	73	01:09	87N	07:42	289
2024	Jan 28	(Sun)	20:10	78	01:52	90S	08:19	284
2024	Jan 29	(Mon)	20:57	84	02:34	84S	08:53	279
2024	Jan 30	(Tue)	21:43	90	03:13	79S	09:26	273
2024	Jan 31	(Wed)	22:28	96	03:52	73S	09:58	267
2024	Feb 01	(Thu)	23:16	102	04:31	67S	10:30	261
2024	Feb 02	(Fri)			05:12	61S	11:05	255
2024	Feb 03	(Sat)	00:06	108	05:56	56S	11:43	250
2024	Feb 04	(Sun)	00:59	112	06:44	52S	12:27	246

2024 Feb 05 (Mon)	01:56 116	07:37 48S	13:16 242
2024 Feb 06 (Tue)	02:57 119	08:35 46S	14:13 241
2024 Feb 07 (Wed)	03:59 120	09:37 46S	15:15 241
2024 Feb 08 (Thu)	05:00 118	10:40 48S	16:22 243
2024 Feb 09 (Fri)	05:58 115	11:42 52S	17:29 248
2024 Feb 10 (Sat)	06:50 109	12:41 57S	18:35 254
2024 Feb 11 (Sun)	07:37 103	13:35 64S	19:37 261
2024 Feb 12 (Mon)	08:21 95	14:27 71S	20:38 269
2024 Feb 13 (Tue)	09:03 88	15:17 79S	21:36 276
2024 Feb 14 (Wed)	09:44 80	16:07 86S	22:34 283
2024 Feb 15 (Thu)	10:26 74	16:57 90N	23:32 289
2024 Feb 16 (Fri)	11:11 68	17:49 85N	
2024 Feb 17 (Sat)	11:58 64	18:43 81N	00:31 294
2024 Feb 18 (Sun)	12:49 61	19:38 79N	01:30 298
2024 Feb 19 (Mon)	13:43 60	20:33 78N	02:28 299
2024 Feb 20 (Tue)	14:38 61	21:27 79N	03:23 299
2024 Feb 21 (Wed)	15:33 63	22:18 82N	04:14 298
2024 Feb 22 (Thu)	16:27 67	23:06 85N	05:00 295
2024 Feb 23 (Fri)	17:18 71	23:50 90N	05:42 291
2024 Feb 24 (Sat)	18:07 77		06:19 286
2024 Feb 25 (Sun)	18:54 82	00:32 86S	06:54 281
2024 Feb 26 (Mon)	19:39 88	01:12 81S	07:27 275
2024 Feb 27 (Tue)	20:25 94	01:51 75S	07:59 269
2024 Feb 28 (Wed)	21:12 100	02:30 69S	08:31 263
2024 Feb 29 (Thu)	22:00 106	03:10 63S	09:05 257
2024 Mar 01 (Fri)	22:51 111	03:52 58S	09:41 252
2024 Mar 02 (Sat)	23:46 115	04:38 53S	10:22 247
2024 Mar 03 (Sun)		05:28 49S	11:07 243
2024 Mar 04 (Mon)	00:44 118	06:22 47S	11:59 241
2024 Mar 05 (Tue)	01:43 120	07:20 45S	12:57 240
2024 Mar 06 (Wed)	02:43 119	08:21 46S	14:00 242
2024 Mar 07 (Thu)	03:41 117	09:22 49S	15:06 245
2024 Mar 08 (Fri)	04:34 112	10:21 54S	16:11 250
2024 Mar 09 (Sat)	05:24 106	11:17 60S	17:15 257
2024 Mar 10 (Sun)	06:09 99	12:11 67S	18:17 264
2024 Mar 11 (Mon)	06:53 92	13:03 75S	19:18 272
2024 Mar 12 (Tue)	07:35 84	13:54 82S	20:18 280
2024 Mar 13 (Wed)	08:18 77	14:46 89S	21:18 287
2024 Mar 14 (Thu)	09:03 70	15:39 86N	22:19 293
2024 Mar 15 (Fri)	09:51 65	16:35 82N	23:21 297
2024 Mar 16 (Sat)	10:43 62	17:31 79N	
2024 Mar 17 (Sun)	11:37 60	18:28 78N	00:21 299
2024 Mar 18 (Mon)	12:33 61	19:23 79N	01:18 300
2024 Mar 19 (Tue)	13:28 62	20:15 81N	02:11 299
2024 Mar 20 (Wed)	14:22 65	21:04 84N	02:59 296
2024 Mar 21 (Thu)	15:14 70	21:49 88N	03:42 292
2024 Mar 22 (Fri)	16:03 75	22:31 88S	04:20 288
2024 Mar 23 (Sat)	16:51 80	23:11 82S	04:55 282
2024 Mar 24 (Sun)	17:37 86	23:50 77S	05:29 277
2024 Mar 25 (Mon)	18:23 92		06:01 271
2024 Mar 26 (Tue)	19:09 98	00:29 71S	06:33 265
2024 Mar 27 (Wed)	19:57 104	01:09 65S	07:06 259
2024 Mar 28 (Thu)	20:47 109	01:51 59S	07:42 253
2024 Mar 29 (Fri)	21:41 114	02:35 54S	08:21 248
2024 Mar 30 (Sat)	22:37 117	03:23 50S	09:04 244
2024 Mar 31 (Sun)	23:35 119	04:16 47S	09:53 241
2024 Apr 01 (Mon)		05:12 46S	10:48 240
2024 Apr 02 (Tue)	00:33 120	06:10 46S	11:48 241
2024 Apr 03 (Wed)	01:30 118	07:09 48S	12:50 243
2024 Apr 04 (Thu)	02:23 115	08:07 51S	13:53 248
2024 Apr 05 (Fri)	03:13 109	09:02 57S	14:56 253
2024 Apr 06 (Sat)	03:58 103	09:56 63S	15:57 260
2024 Apr 07 (Sun)	04:42 96	10:47 71S	16:57 268
2024 Apr 08 (Mon)	05:24 88	11:38 78S	17:57 276
2024 Apr 09 (Tue)	06:06 80	12:30 86S	18:58 283
2024 Apr 10 (Wed)	06:51 73	13:23 89N	20:00 290
2024 Apr 11 (Thu)	07:39 68	14:19 84N	21:03 295

2024 Apr 12 (Fri)	08:30	63	15:17	80N	22:07	298
2024 Apr 13 (Sat)	09:25	61	16:16	78N	23:07	300
2024 Apr 14 (Sun)	10:23	60	17:14	78N		
2024 Apr 15 (Mon)	11:20	61	18:08	80N	00:04	299
2024 Apr 16 (Tue)	12:16	64	18:59	83N	00:55	297
2024 Apr 17 (Wed)	13:09	68	19:46	87N	01:40	294
2024 Apr 18 (Thu)	13:59	73	20:29	90S	02:20	289
2024 Apr 19 (Fri)	14:47	78	21:10	84S	02:56	284
2024 Apr 20 (Sat)	15:33	84	21:50	79S	03:30	279
2024 Apr 21 (Sun)	16:19	90	22:28	73S	04:02	273
2024 Apr 22 (Mon)	17:05	96	23:08	67S	04:34	267
2024 Apr 23 (Tue)	17:53	102	23:49	61S	05:07	261
2024 Apr 24 (Wed)	18:43	108			05:42	255
2024 Apr 25 (Thu)	19:36	113	00:33	56S	06:20	250
2024 Apr 26 (Fri)	20:32	117	01:20	51S	07:03	245
2024 Apr 27 (Sat)	21:30	119	02:12	48S	07:50	242
2024 Apr 28 (Sun)	22:28	120	03:07	46S	08:44	240
2024 Apr 29 (Mon)	23:25	119	04:05	46S	09:41	240
2024 Apr 30 (Tue)			05:03	47S	10:42	242
2024 May 01 (Wed)	00:18	116	06:00	50S	11:44	246
2024 May 02 (Thu)	01:08	111	06:55	55S	12:45	251
2024 May 03 (Fri)	01:53	106	07:47	61S	13:44	258
2024 May 04 (Sat)	02:35	99	08:37	67S	14:42	265
2024 May 05 (Sun)	03:16	91	09:26	75S	15:40	272
2024 May 06 (Mon)	03:57	84	10:16	82S	16:39	280
2024 May 07 (Tue)	04:40	77	11:08	89S	17:40	287
2024 May 08 (Wed)	05:26	70	12:02	86N	18:43	292
2024 May 09 (Thu)	06:16	65	13:00	82N	19:47	297
2024 May 10 (Fri)	07:10	62	13:59	79N	20:50	299
2024 May 11 (Sat)	08:08	60	14:59	78N	21:50	300
2024 May 12 (Sun)	09:07	61	15:57	79N	22:45	298
2024 May 13 (Mon)	10:05	63	16:51	81N	23:34	295
2024 May 14 (Tue)	11:00	66	17:40	85N		
2024 May 15 (Wed)	11:52	71	18:25	90N	00:16	291
2024 May 16 (Thu)	12:41	76	19:07	86S	00:55	286
2024 May 17 (Fri)	13:28	82	19:47	81S	01:29	281
2024 May 18 (Sat)	14:14	88	20:26	75S	02:02	275
2024 May 19 (Sun)	15:00	94	21:05	69S	02:34	269
2024 May 20 (Mon)	15:47	100	21:46	63S	03:07	263
2024 May 21 (Tue)	16:36	106	22:29	58S	03:41	257
2024 May 22 (Wed)	17:28	111	23:15	53S	04:18	252
2024 May 23 (Thu)	18:24	115			04:59	247
2024 May 24 (Fri)	19:22	118	00:06	49S	05:46	243
2024 May 25 (Sat)	20:22	120	01:01	47S	06:38	241
2024 May 26 (Sun)	21:20	119	01:59	46S	07:35	240
2024 May 27 (Mon)	22:15	117	02:58	46S	08:36	242
2024 May 28 (Tue)	23:05	113	03:56	49S	09:38	245
2024 May 29 (Wed)	23:51	107	04:51	53S	10:39	250
2024 May 30 (Thu)			05:43	59S	11:38	256
2024 May 31 (Fri)	00:34	101	06:33	65S	12:36	262
2024 Jun 01 (Sat)	01:14	94	07:21	72S	13:32	270
2024 Jun 02 (Sun)	01:54	87	08:09	79S	14:28	277
2024 Jun 03 (Mon)	02:34	80	08:58	86S	15:27	284
2024 Jun 04 (Tue)	03:17	73	09:50	89N	16:27	290
2024 Jun 05 (Wed)	04:04	67	10:45	84N	17:29	295
2024 Jun 06 (Thu)	04:56	63	11:43	80N	18:33	298
2024 Jun 07 (Fri)	05:52	61	12:43	78N	19:35	300
2024 Jun 08 (Sat)	06:51	60	13:42	78N	20:32	299
2024 Jun 09 (Sun)	07:51	62	14:39	80N	21:24	297
2024 Jun 10 (Mon)	08:48	65	15:31	84N	22:10	293
2024 Jun 11 (Tue)	09:43	69	16:18	88N	22:51	288
2024 Jun 12 (Wed)	10:34	74	17:02	88S	23:27	283
2024 Jun 13 (Thu)	11:22	80	17:43	83S		
2024 Jun 14 (Fri)	12:08	86	18:22	77S	00:01	277
2024 Jun 15 (Sat)	12:54	92	19:01	71S	00:33	271
2024 Jun 16 (Sun)	13:40	98	19:41	65S	01:05	265
2024 Jun 17 (Mon)	14:28	104	20:22	60S	01:38	259

2024 Jun 18 (Tue)	15:19 109	21:07 55S	02:14 254
2024 Jun 19 (Wed)	16:13 114	21:56 51S	02:53 249
2024 Jun 20 (Thu)	17:10 117	22:50 47S	03:38 245
2024 Jun 21 (Fri)	18:10 119	23:48 46S	04:28 242
2024 Jun 22 (Sat)	19:10 120		05:25 240
2024 Jun 23 (Sun)	20:08 118	00:48 46S	06:26 241
2024 Jun 24 (Mon)	21:01 114	01:48 48S	07:29 244
2024 Jun 25 (Tue)	21:49 109	02:45 52S	08:32 248
2024 Jun 26 (Wed)	22:33 103	03:39 57S	09:33 254
2024 Jun 27 (Thu)	23:14 96	04:30 64S	10:31 261
2024 Jun 28 (Fri)	23:54 89	05:19 70S	11:28 268
2024 Jun 29 (Sat)		06:07 78S	12:24 275
2024 Jun 30 (Sun)	00:33 82	06:55 84S	13:20 282
2024 Jul 01 (Mon)	01:15 75	07:44 91N	14:18 288
2024 Jul 02 (Tue)	01:59 69	08:37 85N	15:19 294
2024 Jul 03 (Wed)	02:48 65	09:33 81N	16:20 297
2024 Jul 04 (Thu)	03:41 62	10:31 79N	17:22 299
2024 Jul 05 (Fri)	04:39 60	11:30 78N	18:21 299
2024 Jul 06 (Sat)	05:38 61	12:27 79N	19:15 298
2024 Jul 07 (Sun)	06:36 64	13:21 82N	20:03 294
2024 Jul 08 (Mon)	07:32 67	14:11 86N	20:46 290
2024 Jul 09 (Tue)	08:25 72	14:56 90S	21:24 285
2024 Jul 10 (Wed)	09:14 78	15:38 85S	21:59 279
2024 Jul 11 (Thu)	10:02 84	16:18 79S	22:32 273
2024 Jul 12 (Fri)	10:47 90	16:57 73S	23:04 267
2024 Jul 13 (Sat)	11:33 96	17:36 68S	23:36 261
2024 Jul 14 (Sun)	12:20 101	18:17 62S	
2024 Jul 15 (Mon)	13:09 107	19:00 57S	00:10 256
2024 Jul 16 (Tue)	14:01 112	19:46 52S	00:47 251
2024 Jul 17 (Wed)	14:56 116	20:37 48S	01:29 246
2024 Jul 18 (Thu)	15:55 119	21:33 46S	02:16 243
2024 Jul 19 (Fri)	16:55 120	22:33 46S	03:10 241
2024 Jul 20 (Sat)	17:55 119	23:33 47S	04:10 240
2024 Jul 21 (Sun)	18:51 116		05:14 242
2024 Jul 22 (Mon)	19:42 111	00:33 50S	06:18 246
2024 Jul 23 (Tue)	20:29 105	01:30 55S	07:22 252
2024 Jul 24 (Wed)	21:12 98	02:24 61S	08:22 258
2024 Jul 25 (Thu)	21:53 91	03:15 68S	09:21 265
2024 Jul 26 (Fri)	22:33 83	04:04 75S	10:18 273
2024 Jul 27 (Sat)	23:14 77	04:52 83S	11:15 280
2024 Jul 28 (Sun)	23:58 71	05:42 89S	12:13 287
2024 Jul 29 (Mon)		06:33 87N	13:13 292
2024 Jul 30 (Tue)	00:45 66	07:28 82N	14:14 296
2024 Jul 31 (Wed)	01:36 62	08:24 79N	15:14 299
2024 Aug 01 (Thu)	02:31 60	09:22 78N	16:13 300
2024 Aug 02 (Fri)	03:29 61	10:19 79N	17:08 299
2024 Aug 03 (Sat)	04:27 63	11:14 81N	17:58 296
2024 Aug 04 (Sun)	05:24 66	12:05 85N	18:42 292
2024 Aug 05 (Mon)	06:17 70	12:51 89N	19:22 287
2024 Aug 06 (Tue)	07:08 76	13:35 87S	19:58 281
2024 Aug 07 (Wed)	07:56 81	14:15 81S	20:31 276
2024 Aug 08 (Thu)	08:42 87	14:54 75S	21:03 270
2024 Aug 09 (Fri)	09:28 94	15:33 70S	21:35 264
2024 Aug 10 (Sat)	10:14 99	16:13 64S	22:08 258
2024 Aug 11 (Sun)	11:01 105	16:54 58S	22:44 252
2024 Aug 12 (Mon)	11:51 110	17:38 54S	23:23 248
2024 Aug 13 (Tue)	12:44 115	18:26 50S	
2024 Aug 14 (Wed)	13:41 118	19:19 47S	00:07 244
2024 Aug 15 (Thu)	14:39 120	20:16 45S	00:57 241
2024 Aug 16 (Fri)	15:39 120	21:16 46S	01:53 240
2024 Aug 17 (Sat)	16:36 118	22:16 48S	02:54 241
2024 Aug 18 (Sun)	17:30 114	23:15 52S	03:58 244
2024 Aug 19 (Mon)	18:19 108		05:03 249
2024 Aug 20 (Tue)	19:05 101	00:11 58S	06:06 255
2024 Aug 21 (Wed)	19:48 94	01:04 65S	07:07 262
2024 Aug 22 (Thu)	20:29 86	01:55 73S	08:07 270
2024 Aug 23 (Fri)	21:11 79	02:45 80S	09:06 278

2024 Aug 24 (Sat)	21:55	72	03:36	87S	10:05	285
2024 Aug 25 (Sun)	22:42	67	04:28	88N	11:06	291
2024 Aug 26 (Mon)	23:32	63	05:23	83N	12:08	296
2024 Aug 27 (Tue)			06:20	80N	13:09	299
2024 Aug 28 (Wed)	00:27	61	07:17	78N	14:09	300
2024 Aug 29 (Thu)	01:24	60	08:15	78N	15:05	299
2024 Aug 30 (Fri)	02:21	62	09:10	80N	15:56	297
2024 Aug 31 (Sat)	03:18	65	10:01	83N	16:41	293
2024 Sep 01 (Sun)	04:12	69	10:48	87N	17:21	289
2024 Sep 02 (Mon)	05:03	74	11:32	89S	17:58	283
2024 Sep 03 (Tue)	05:52	79	12:14	83S	18:32	278
2024 Sep 04 (Wed)	06:38	85	12:53	77S	19:04	272
2024 Sep 05 (Thu)	07:24	91	13:32	72S	19:36	266
2024 Sep 06 (Fri)	08:10	97	14:11	66S	20:08	260
2024 Sep 07 (Sat)	08:57	103	14:51	60S	20:43	254
2024 Sep 08 (Sun)	09:45	109	15:34	55S	21:20	249
2024 Sep 09 (Mon)	10:36	113	16:20	51S	22:01	245
2024 Sep 10 (Tue)	11:30	117	17:10	48S	22:48	242
2024 Sep 11 (Wed)	12:27	119	18:04	46S	23:40	240
2024 Sep 12 (Thu)	13:25	120	19:01	45S		
2024 Sep 13 (Fri)	14:21	119	19:59	47S	00:37	240
2024 Sep 14 (Sat)	15:16	116	20:58	50S	01:39	242
2024 Sep 15 (Sun)	16:06	111	21:54	55S	02:42	246
2024 Sep 16 (Mon)	16:53	105	22:48	61S	03:45	252
2024 Sep 17 (Tue)	17:37	98	23:41	69S	04:47	258
2024 Sep 18 (Wed)	18:20	90			05:48	266
2024 Sep 19 (Thu)	19:03	82	00:32	76S	06:49	274
2024 Sep 20 (Fri)	19:47	75	01:24	84S	07:50	282
2024 Sep 21 (Sat)	20:34	69	02:17	91N	08:52	288
2024 Sep 22 (Sun)	21:25	64	03:13	85N	09:56	294
2024 Sep 23 (Mon)	22:20	61	04:11	81N	11:00	298
2024 Sep 24 (Tue)	23:17	60	05:10	78N	12:02	300
2024 Sep 25 (Wed)			06:09	78N	13:00	300
2024 Sep 26 (Thu)	00:16	61	07:06	79N	13:53	298
2024 Sep 27 (Fri)	01:13	63	07:58	82N	14:40	295
2024 Sep 28 (Sat)	02:08	67	08:47	86N	15:22	290
2024 Sep 29 (Sun)	03:00	72	09:31	91S	15:59	285
2024 Sep 30 (Mon)	03:49	78	10:13	85S	16:34	280
2024 Oct 01 (Tue)	04:36	83	10:53	79S	17:06	274
2024 Oct 02 (Wed)	05:22	89	11:32	73S	17:38	268
2024 Oct 03 (Thu)	06:07	96	12:10	68S	18:10	262
2024 Oct 04 (Fri)	06:54	101	12:50	62S	18:44	256
2024 Oct 05 (Sat)	07:42	107	13:32	57S	19:20	251
2024 Oct 06 (Sun)	08:32	112	14:17	52S	20:00	246
2024 Oct 07 (Mon)	09:25	116	15:05	49S	20:44	243
2024 Oct 08 (Tue)	10:20	119	15:57	46S	21:33	241
2024 Oct 09 (Wed)	11:16	120	16:52	45S	22:28	240
2024 Oct 10 (Thu)	12:12	120	17:48	46S	23:26	241
2024 Oct 11 (Fri)	13:05	117	18:45	48S		
2024 Oct 12 (Sat)	13:56	114	19:40	53S	00:27	244
2024 Oct 13 (Sun)	14:43	108	20:34	58S	01:28	249
2024 Oct 14 (Mon)	15:27	102	21:25	65S	02:28	255
2024 Oct 15 (Tue)	16:09	94	22:16	72S	03:28	262
2024 Oct 16 (Wed)	16:51	86	23:07	80S	04:28	270
2024 Oct 17 (Thu)	17:35	79			05:28	278
2024 Oct 18 (Fri)	18:21	72	00:00	87S	06:31	285
2024 Oct 19 (Sat)	19:11	66	00:56	88N	07:35	291
2024 Oct 20 (Sun)	20:07	62	01:55	83N	08:41	296
2024 Oct 21 (Mon)	21:05	60	02:56	79N	09:47	299
2024 Oct 22 (Tue)	22:06	60	03:57	78N	10:50	300
2024 Oct 23 (Wed)	23:05	62	04:57	79N	11:46	299
2024 Oct 24 (Thu)			05:52	81N	12:37	296
2024 Oct 25 (Fri)	00:02	66	06:43	85N	13:21	292
2024 Oct 26 (Sat)	00:56	70	07:29	89N	14:00	287
2024 Oct 27 (Sun)	01:46	76	08:12	87S	14:35	281
2024 Oct 28 (Mon)	02:33	81	08:52	81S	15:08	276
2024 Oct 29 (Tue)	03:19	87	09:31	75S	15:40	270

2024	Oct	30	(Wed)	04:05	94	10:10	70S	16:12	264
2024	Oct	31	(Thu)	04:51	99	10:49	64S	16:45	258
2024	Nov	01	(Fri)	05:38	105	11:31	58S	17:20	252
2024	Nov	02	(Sat)	06:28	110	12:15	54S	17:59	248
2024	Nov	03	(Sun)	07:20	115	13:02	50S	18:42	244
2024	Nov	04	(Mon)	08:15	118	13:53	47S	19:30	241
2024	Nov	05	(Tue)	09:11	120	14:47	46S	20:23	240
2024	Nov	06	(Wed)	10:07	120	15:43	46S	21:20	241
2024	Nov	07	(Thu)	11:00	118	16:39	48S	22:19	243
2024	Nov	08	(Fri)	11:51	115	17:33	51S	23:18	247
2024	Nov	09	(Sat)	12:37	110	18:25	56S		
2024	Nov	10	(Sun)	13:20	104	19:15	62S	00:17	252
2024	Nov	11	(Mon)	14:02	98	20:04	69S	01:14	259
2024	Nov	12	(Tue)	14:42	90	20:54	76S	02:12	266
2024	Nov	13	(Wed)	15:23	83	21:44	83S	03:09	274
2024	Nov	14	(Thu)	16:07	75	22:37	90S	04:09	281
2024	Nov	15	(Fri)	16:55	69	23:34	85N	05:12	288
2024	Nov	16	(Sat)	17:49	64			06:17	294
2024	Nov	17	(Sun)	18:47	61	00:35	81N	07:25	298
2024	Nov	18	(Mon)	19:48	60	01:38	78N	08:31	300
2024	Nov	19	(Tue)	20:51	61	02:41	78N	09:32	299
2024	Nov	20	(Wed)	21:51	64	03:40	80N	10:27	297
2024	Nov	21	(Thu)	22:47	69	04:35	83N	11:15	293
2024	Nov	22	(Fri)	23:39	74	05:24	87N	11:57	289
2024	Nov	23	(Sat)			06:09	89S	12:34	283
2024	Nov	24	(Sun)	00:28	79	06:50	83S	13:08	278
2024	Nov	25	(Mon)	01:15	85	07:30	77S	13:41	272
2024	Nov	26	(Tue)	02:01	91	08:08	72S	14:12	266
2024	Nov	27	(Wed)	02:46	97	08:47	66S	14:45	260
2024	Nov	28	(Thu)	03:33	103	09:28	60S	15:20	254
2024	Nov	29	(Fri)	04:22	109	10:11	55S	15:57	249
2024	Nov	30	(Sat)	05:14	113	10:58	51S	16:39	245
2024	Dec	01	(Sun)	06:09	117	11:48	48S	17:26	242
2024	Dec	02	(Mon)	07:05	119	12:42	46S	18:18	240
2024	Dec	03	(Tue)	08:02	120	13:38	46S	19:15	241
2024	Dec	04	(Wed)	08:57	119	14:34	47S	20:14	242
2024	Dec	05	(Thu)	09:48	116	15:29	50S	21:13	246
2024	Dec	06	(Fri)	10:36	112	16:22	55S	22:11	251
2024	Dec	07	(Sat)	11:19	106	17:12	60S	23:08	257
2024	Dec	08	(Sun)	12:00	100	18:00	67S		
2024	Dec	09	(Mon)	12:39	93	18:47	74S	00:04	264
2024	Dec	10	(Tue)	13:18	85	19:35	81S	01:00	271
2024	Dec	11	(Wed)	14:00	78	20:25	88S	01:56	278
2024	Dec	12	(Thu)	14:44	72	21:19	88N	02:55	285
2024	Dec	13	(Fri)	15:33	66	22:16	83N	03:57	291
2024	Dec	14	(Sat)	16:28	62	23:18	79N	05:03	296
2024	Dec	15	(Sun)	17:28	61			06:09	299
2024	Dec	16	(Mon)	18:31	61	00:21	78N	07:13	300
2024	Dec	17	(Tue)	19:34	63	01:22	79N	08:12	298
2024	Dec	18	(Wed)	20:33	67	02:20	82N	09:04	295
2024	Dec	19	(Thu)	21:28	72	03:13	86N	09:50	291
2024	Dec	20	(Fri)	22:20	77	04:01	90N	10:30	285
2024	Dec	21	(Sat)	23:08	83	04:45	85S	11:06	280
2024	Dec	22	(Sun)	23:54	89	05:25	80S	11:39	274
2024	Dec	23	(Mon)			06:05	74S	12:11	268
2024	Dec	24	(Tue)	00:40	95	06:44	68S	12:44	262
2024	Dec	25	(Wed)	01:27	101	07:23	62S	13:17	256
2024	Dec	26	(Thu)	02:15	107	08:05	57S	13:54	251
2024	Dec	27	(Fri)	03:05	112	08:51	52S	14:34	246
2024	Dec	28	(Sat)	03:59	116	09:40	49S	15:19	243
2024	Dec	29	(Sun)	04:55	118	10:33	46S	16:09	241
2024	Dec	30	(Mon)	05:52	120	11:29	46S	17:05	240
2024	Dec	31	(Tue)	06:49	119	12:26	46S	18:04	242