

Sun

Mukdahan

Location: E104°33'53.9", N16°34'26.4", 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)	05:40	06:30 114		12:05 51S	17:40 246		18:30
2024 Jan 02 (Tue)	05:40	06:30 114		12:05 51S	17:40 246		18:31
2024 Jan 03 (Wed)	05:41	06:31 114		12:06 51S	17:41 246		18:31
2024 Jan 04 (Thu)	05:41	06:31 114		12:06 51S	17:42 246		18:32
2024 Jan 05 (Fri)	05:41	06:31 113		12:07 51S	17:42 247		18:32
2024 Jan 06 (Sat)	05:42	06:32 113		12:07 52S	17:43 247		18:33
2024 Jan 07 (Sun)	05:42	06:32 113		12:08 52S	17:43 247		18:33
2024 Jan 08 (Mon)	05:42	06:32 113		12:08 52S	17:44 247		18:34
2024 Jan 09 (Tue)	05:43	06:33 113		12:09 52S	17:45 247		18:35
2024 Jan 10 (Wed)	05:43	06:33 113		12:09 52S	17:45 247		18:35
2024 Jan 11 (Thu)	05:43	06:33 113		12:09 52S	17:46 247		18:36
2024 Jan 12 (Fri)	05:43	06:33 112		12:10 52S	17:46 248		18:36
2024 Jan 13 (Sat)	05:44	06:33 112		12:10 53S	17:47 248		18:37
2024 Jan 14 (Sun)	05:44	06:33 112		12:11 53S	17:48 248		18:37
2024 Jan 15 (Mon)	05:44	06:34 112		12:11 53S	17:48 248		18:38
2024 Jan 16 (Tue)	05:44	06:34 112		12:11 53S	17:49 248		18:38
2024 Jan 17 (Wed)	05:44	06:34 112		12:12 53S	17:49 249		18:39
2024 Jan 18 (Thu)	05:44	06:34 111		12:12 53S	17:50 249		18:40
2024 Jan 19 (Fri)	05:45	06:34 111		12:12 54S	17:51 249		18:40
2024 Jan 20 (Sat)	05:45	06:34 111		12:13 54S	17:51 249		18:41
2024 Jan 21 (Sun)	05:45	06:34 111		12:13 54S	17:52 249		18:41
2024 Jan 22 (Mon)	05:45	06:34 110		12:13 54S	17:52 250		18:42
2024 Jan 23 (Tue)	05:45	06:34 110		12:13 55S	17:53 250		18:42
2024 Jan 24 (Wed)	05:45	06:34 110		12:14 55S	17:54 250		18:43
2024 Jan 25 (Thu)	05:45	06:34 110		12:14 55S	17:54 250		18:43
2024 Jan 26 (Fri)	05:45	06:34 109		12:14 55S	17:55 251		18:44
2024 Jan 27 (Sat)	05:45	06:34 109		12:14 56S	17:55 251		18:44
2024 Jan 28 (Sun)	05:45	06:33 109		12:15 56S	17:56 251		18:44
2024 Jan 29 (Mon)	05:45	06:33 109		12:15 56S	17:56 251		18:45
2024 Jan 30 (Tue)	05:45	06:33 108		12:15 56S	17:57 252		18:45
2024 Jan 31 (Wed)	05:44	06:33 108		12:15 57S	17:57 252		18:46
2024 Feb 01 (Thu)	05:44	06:33 108		12:15 57S	17:58 252		18:46
2024 Feb 02 (Fri)	05:44	06:33 108		12:15 57S	17:58 253		18:47
2024 Feb 03 (Sat)	05:44	06:32 107		12:15 57S	17:59 253		18:47
2024 Feb 04 (Sun)	05:44	06:32 107		12:16 58S	17:59 253		18:48
2024 Feb 05 (Mon)	05:44	06:32 107		12:16 58S	18:00 254		18:48
2024 Feb 06 (Tue)	05:43	06:31 106		12:16 58S	18:00 254		18:48
2024 Feb 07 (Wed)	05:43	06:31 106		12:16 59S	18:01 254		18:49
2024 Feb 08 (Thu)	05:43	06:31 106		12:16 59S	18:01 255		18:49
2024 Feb 09 (Fri)	05:43	06:30 105		12:16 59S	18:02 255		18:49
2024 Feb 10 (Sat)	05:42	06:30 105		12:16 60S	18:02 255		18:50
2024 Feb 11 (Sun)	05:42	06:30 105		12:16 60S	18:02 256		18:50
2024 Feb 12 (Mon)	05:42	06:29 104		12:16 60S	18:03 256		18:51
2024 Feb 13 (Tue)	05:41	06:29 104		12:16 61S	18:03 256		18:51
2024 Feb 14 (Wed)	05:41	06:28 104		12:16 61S	18:04 257		18:51
2024 Feb 15 (Thu)	05:40	06:28 103		12:16 61S	18:04 257		18:52
2024 Feb 16 (Fri)	05:40	06:28 103		12:16 62S	18:04 257		18:52
2024 Feb 17 (Sat)	05:40	06:27 103		12:16 62S	18:05 258		18:52
2024 Feb 18 (Sun)	05:39	06:27 102		12:16 62S	18:05 258		18:52
2024 Feb 19 (Mon)	05:39	06:26 102		12:16 63S	18:05 258		18:53
2024 Feb 20 (Tue)	05:38	06:25 101		12:16 63S	18:06 259		18:53
2024 Feb 21 (Wed)	05:38	06:25 101		12:15 63S	18:06 259		18:53
2024 Feb 22 (Thu)	05:37	06:24 101		12:15 64S	18:06 260		18:54
2024 Feb 23 (Fri)	05:37	06:24 100		12:15 64S	18:07 260		18:54
2024 Feb 24 (Sat)	05:36	06:23 100		12:15 64S	18:07 260		18:54

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

2024	May	02	(Thu)	04:47	05:36	74	11:59	90S	18:21	287	19:10
2024	May	03	(Fri)	04:47	05:36	73	11:59	90S	18:22	287	19:11
2024	May	04	(Sat)	04:46	05:35	73	11:59	90S	18:22	287	19:11
2024	May	05	(Sun)	04:45	05:35	73	11:58	91S	18:22	287	19:12
2024	May	06	(Mon)	04:45	05:34	72	11:58	91N	18:23	288	19:12
2024	May	07	(Tue)	04:44	05:34	72	11:58	90N	18:23	288	19:12
2024	May	08	(Wed)	04:44	05:34	72	11:58	90N	18:23	288	19:13
2024	May	09	(Thu)	04:43	05:33	72	11:58	90N	18:23	289	19:13
2024	May	10	(Fri)	04:43	05:33	71	11:58	90N	18:24	289	19:14
2024	May	11	(Sat)	04:42	05:32	71	11:58	89N	18:24	289	19:14
2024	May	12	(Sun)	04:42	05:32	71	11:58	89N	18:24	289	19:14
2024	May	13	(Mon)	04:42	05:32	70	11:58	89N	18:25	290	19:15
2024	May	14	(Tue)	04:41	05:31	70	11:58	89N	18:25	290	19:15
2024	May	15	(Wed)	04:41	05:31	70	11:58	88N	18:25	290	19:16
2024	May	16	(Thu)	04:40	05:31	70	11:58	88N	18:26	290	19:16
2024	May	17	(Fri)	04:40	05:30	69	11:58	88N	18:26	291	19:17
2024	May	18	(Sat)	04:40	05:30	69	11:58	88N	18:26	291	19:17
2024	May	19	(Sun)	04:39	05:30	69	11:58	87N	18:27	291	19:17
2024	May	20	(Mon)	04:39	05:30	69	11:58	87N	18:27	291	19:18
2024	May	21	(Tue)	04:39	05:29	69	11:58	87N	18:27	292	19:18
2024	May	22	(Wed)	04:38	05:29	68	11:58	87N	18:28	292	19:19
2024	May	23	(Thu)	04:38	05:29	68	11:59	87N	18:28	292	19:19
2024	May	24	(Fri)	04:38	05:29	68	11:59	86N	18:28	292	19:20
2024	May	25	(Sat)	04:38	05:29	68	11:59	86N	18:29	292	19:20
2024	May	26	(Sun)	04:37	05:29	68	11:59	86N	18:29	292	19:20
2024	May	27	(Mon)	04:37	05:28	67	11:59	86N	18:30	293	19:21
2024	May	28	(Tue)	04:37	05:28	67	11:59	86N	18:30	293	19:21
2024	May	29	(Wed)	04:37	05:28	67	11:59	86N	18:30	293	19:22
2024	May	30	(Thu)	04:37	05:28	67	11:59	85N	18:31	293	19:22
2024	May	31	(Fri)	04:37	05:28	67	11:59	85N	18:31	293	19:23
2024	Jun	01	(Sat)	04:36	05:28	67	12:00	85N	18:31	293	19:23
2024	Jun	02	(Sun)	04:36	05:28	66	12:00	85N	18:32	294	19:23
2024	Jun	03	(Mon)	04:36	05:28	66	12:00	85N	18:32	294	19:24
2024	Jun	04	(Tue)	04:36	05:28	66	12:00	85N	18:32	294	19:24
2024	Jun	05	(Wed)	04:36	05:28	66	12:00	85N	18:33	294	19:25
2024	Jun	06	(Thu)	04:36	05:28	66	12:00	85N	18:33	294	19:25
2024	Jun	07	(Fri)	04:36	05:28	66	12:01	84N	18:33	294	19:25
2024	Jun	08	(Sat)	04:36	05:28	66	12:01	84N	18:34	294	19:26
2024	Jun	09	(Sun)	04:36	05:28	66	12:01	84N	18:34	294	19:26
2024	Jun	10	(Mon)	04:36	05:28	66	12:01	84N	18:34	294	19:26
2024	Jun	11	(Tue)	04:36	05:28	66	12:01	84N	18:35	294	19:27
2024	Jun	12	(Wed)	04:36	05:29	65	12:02	84N	18:35	295	19:27
2024	Jun	13	(Thu)	04:37	05:29	65	12:02	84N	18:35	295	19:27
2024	Jun	14	(Fri)	04:37	05:29	65	12:02	84N	18:35	295	19:28
2024	Jun	15	(Sat)	04:37	05:29	65	12:02	84N	18:36	295	19:28
2024	Jun	16	(Sun)	04:37	05:29	65	12:03	84N	18:36	295	19:28
2024	Jun	17	(Mon)	04:37	05:29	65	12:03	84N	18:36	295	19:28
2024	Jun	18	(Tue)	04:37	05:29	65	12:03	84N	18:36	295	19:29
2024	Jun	19	(Wed)	04:37	05:30	65	12:03	84N	18:37	295	19:29
2024	Jun	20	(Thu)	04:38	05:30	65	12:03	84N	18:37	295	19:29
2024	Jun	21	(Fri)	04:38	05:30	65	12:04	84N	18:37	295	19:29
2024	Jun	22	(Sat)	04:38	05:30	65	12:04	84N	18:37	295	19:30
2024	Jun	23	(Sun)	04:38	05:31	65	12:04	84N	18:38	295	19:30
2024	Jun	24	(Mon)	04:39	05:31	65	12:04	84N	18:38	295	19:30
2024	Jun	25	(Tue)	04:39	05:31	65	12:04	84N	18:38	295	19:30
2024	Jun	26	(Wed)	04:39	05:31	65	12:05	84N	18:38	295	19:30
2024	Jun	27	(Thu)	04:39	05:32	65	12:05	84N	18:38	295	19:30
2024	Jun	28	(Fri)	04:40	05:32	65	12:05	84N	18:38	295	19:30
2024	Jun	29	(Sat)	04:40	05:32	65	12:05	84N	18:38	295	19:31
2024	Jun	30	(Sun)	04:40	05:32	66	12:05	84N	18:39	294	19:31
2024	Jul	01	(Mon)	04:41	05:33	66	12:06	84N	18:39	294	19:31
2024	Jul	02	(Tue)	04:41	05:33	66	12:06	84N	18:39	294	19:31
2024	Jul	03	(Wed)	04:41	05:33	66	12:06	84N	18:39	294	19:31
2024	Jul	04	(Thu)	04:42	05:34	66	12:06	84N	18:39	294	19:31
2024	Jul	05	(Fri)	04:42	05:34	66	12:06	85N	18:39	294	19:31
2024	Jul	06	(Sat)	04:42	05:34	66	12:07	85N	18:39	294	19:31
2024	Jul	07	(Sun)	04:43	05:35	66	12:07	85N	18:39	294	19:31

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

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

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

Sun

Mukdahan

Location: E104°33'53.9", N16°34'26.4", 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 h m °	Alt. °	Set h m °	Az. °	End Civil Twilight h m			
2024	Jan	01	(Mon)	06:07	06:30	114	12:05	51S	17:40	246	18:03
2024	Jan	02	(Tue)	06:07	06:30	114	12:05	51S	17:40	246	18:04
2024	Jan	03	(Wed)	06:07	06:31	114	12:06	51S	17:41	246	18:04
2024	Jan	04	(Thu)	06:08	06:31	114	12:06	51S	17:42	246	18:05
2024	Jan	05	(Fri)	06:08	06:31	113	12:07	51S	17:42	247	18:06
2024	Jan	06	(Sat)	06:08	06:32	113	12:07	52S	17:43	247	18:06
2024	Jan	07	(Sun)	06:09	06:32	113	12:08	52S	17:43	247	18:07
2024	Jan	08	(Mon)	06:09	06:32	113	12:08	52S	17:44	247	18:07
2024	Jan	09	(Tue)	06:09	06:33	113	12:09	52S	17:45	247	18:08
2024	Jan	10	(Wed)	06:10	06:33	113	12:09	52S	17:45	247	18:08
2024	Jan	11	(Thu)	06:10	06:33	113	12:09	52S	17:46	247	18:09

2024	Jan 12	(Fri)	06:10	06:33	112	12:10	52S	17:46	248	18:10
2024	Jan 13	(Sat)	06:10	06:33	112	12:10	53S	17:47	248	18:10
2024	Jan 14	(Sun)	06:10	06:33	112	12:11	53S	17:48	248	18:11
2024	Jan 15	(Mon)	06:11	06:34	112	12:11	53S	17:48	248	18:11
2024	Jan 16	(Tue)	06:11	06:34	112	12:11	53S	17:49	248	18:12
2024	Jan 17	(Wed)	06:11	06:34	112	12:12	53S	17:49	249	18:12
2024	Jan 18	(Thu)	06:11	06:34	111	12:12	53S	17:50	249	18:13
2024	Jan 19	(Fri)	06:11	06:34	111	12:12	54S	17:51	249	18:14
2024	Jan 20	(Sat)	06:11	06:34	111	12:13	54S	17:51	249	18:14
2024	Jan 21	(Sun)	06:11	06:34	111	12:13	54S	17:52	249	18:15
2024	Jan 22	(Mon)	06:11	06:34	110	12:13	54S	17:52	250	18:15
2024	Jan 23	(Tue)	06:11	06:34	110	12:13	55S	17:53	250	18:16
2024	Jan 24	(Wed)	06:11	06:34	110	12:14	55S	17:54	250	18:16
2024	Jan 25	(Thu)	06:11	06:34	110	12:14	55S	17:54	250	18:17
2024	Jan 26	(Fri)	06:11	06:34	109	12:14	55S	17:55	251	18:17
2024	Jan 27	(Sat)	06:11	06:34	109	12:14	56S	17:55	251	18:18
2024	Jan 28	(Sun)	06:11	06:33	109	12:15	56S	17:56	251	18:18
2024	Jan 29	(Mon)	06:11	06:33	109	12:15	56S	17:56	251	18:19
2024	Jan 30	(Tue)	06:11	06:33	108	12:15	56S	17:57	252	18:19
2024	Jan 31	(Wed)	06:10	06:33	108	12:15	57S	17:57	252	18:20
2024	Feb 01	(Thu)	06:10	06:33	108	12:15	57S	17:58	252	18:20
2024	Feb 02	(Fri)	06:10	06:33	108	12:15	57S	17:58	253	18:21
2024	Feb 03	(Sat)	06:10	06:32	107	12:15	57S	17:59	253	18:21
2024	Feb 04	(Sun)	06:10	06:32	107	12:16	58S	17:59	253	18:22
2024	Feb 05	(Mon)	06:09	06:32	107	12:16	58S	18:00	254	18:22
2024	Feb 06	(Tue)	06:09	06:31	106	12:16	58S	18:00	254	18:23
2024	Feb 07	(Wed)	06:09	06:31	106	12:16	59S	18:01	254	18:23
2024	Feb 08	(Thu)	06:09	06:31	106	12:16	59S	18:01	255	18:23
2024	Feb 09	(Fri)	06:08	06:30	105	12:16	59S	18:02	255	18:24
2024	Feb 10	(Sat)	06:08	06:30	105	12:16	60S	18:02	255	18:24
2024	Feb 11	(Sun)	06:08	06:30	105	12:16	60S	18:02	256	18:25
2024	Feb 12	(Mon)	06:07	06:29	104	12:16	60S	18:03	256	18:25
2024	Feb 13	(Tue)	06:07	06:29	104	12:16	61S	18:03	256	18:25
2024	Feb 14	(Wed)	06:06	06:28	104	12:16	61S	18:04	257	18:26
2024	Feb 15	(Thu)	06:06	06:28	103	12:16	61S	18:04	257	18:26
2024	Feb 16	(Fri)	06:05	06:28	103	12:16	62S	18:04	257	18:26
2024	Feb 17	(Sat)	06:05	06:27	103	12:16	62S	18:05	258	18:27
2024	Feb 18	(Sun)	06:05	06:27	102	12:16	62S	18:05	258	18:27
2024	Feb 19	(Mon)	06:04	06:26	102	12:16	63S	18:05	258	18:27
2024	Feb 20	(Tue)	06:04	06:25	101	12:16	63S	18:06	259	18:28
2024	Feb 21	(Wed)	06:03	06:25	101	12:15	63S	18:06	259	18:28
2024	Feb 22	(Thu)	06:03	06:24	101	12:15	64S	18:06	260	18:28
2024	Feb 23	(Fri)	06:02	06:24	100	12:15	64S	18:07	260	18:29
2024	Feb 24	(Sat)	06:01	06:23	100	12:15	64S	18:07	260	18:29
2024	Feb 25	(Sun)	06:01	06:23	100	12:15	65S	18:07	261	18:29
2024	Feb 26	(Mon)	06:00	06:22	99	12:15	65S	18:08	261	18:29
2024	Feb 27	(Tue)	06:00	06:21	99	12:15	66S	18:08	261	18:30
2024	Feb 28	(Wed)	05:59	06:21	98	12:14	66S	18:08	262	18:30
2024	Feb 29	(Thu)	05:58	06:20	98	12:14	66S	18:08	262	18:30
2024	Mar 01	(Fri)	05:58	06:20	98	12:14	67S	18:09	263	18:30
2024	Mar 02	(Sat)	05:57	06:19	97	12:14	67S	18:09	263	18:31
2024	Mar 03	(Sun)	05:57	06:18	97	12:14	67S	18:09	263	18:31
2024	Mar 04	(Mon)	05:56	06:18	96	12:13	68S	18:09	264	18:31
2024	Mar 05	(Tue)	05:55	06:17	96	12:13	68S	18:10	264	18:31
2024	Mar 06	(Wed)	05:55	06:16	96	12:13	69S	18:10	265	18:32
2024	Mar 07	(Thu)	05:54	06:15	95	12:13	69S	18:10	265	18:32
2024	Mar 08	(Fri)	05:53	06:15	95	12:12	69S	18:10	265	18:32
2024	Mar 09	(Sat)	05:52	06:14	94	12:12	70S	18:11	266	18:32
2024	Mar 10	(Sun)	05:52	06:13	94	12:12	70S	18:11	266	18:32
2024	Mar 11	(Mon)	05:51	06:13	94	12:12	71S	18:11	267	18:33
2024	Mar 12	(Tue)	05:50	06:12	93	12:11	71S	18:11	267	18:33
2024	Mar 13	(Wed)	05:50	06:11	93	12:11	71S	18:11	267	18:33
2024	Mar 14	(Thu)	05:49	06:10	92	12:11	72S	18:12	268	18:33
2024	Mar 15	(Fri)	05:48	06:10	92	12:11	72S	18:12	268	18:33
2024	Mar 16	(Sat)	05:47	06:09	91	12:10	73S	18:12	269	18:34
2024	Mar 17	(Sun)	05:47	06:08	91	12:10	73S	18:12	269	18:34
2024	Mar 18	(Mon)	05:46	06:07	91	12:10	73S	18:12	270	18:34

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

2024	May	25	(Sat)	05:05	05:29	68	11:59	86N	18:29	292	18:52
2024	May	26	(Sun)	05:05	05:29	68	11:59	86N	18:29	292	18:53
2024	May	27	(Mon)	05:05	05:28	67	11:59	86N	18:30	293	18:53
2024	May	28	(Tue)	05:05	05:28	67	11:59	86N	18:30	293	18:53
2024	May	29	(Wed)	05:05	05:28	67	11:59	86N	18:30	293	18:54
2024	May	30	(Thu)	05:05	05:28	67	11:59	85N	18:31	293	18:54
2024	May	31	(Fri)	05:04	05:28	67	11:59	85N	18:31	293	18:55
2024	Jun	01	(Sat)	05:04	05:28	67	12:00	85N	18:31	293	18:55
2024	Jun	02	(Sun)	05:04	05:28	66	12:00	85N	18:32	294	18:55
2024	Jun	03	(Mon)	05:04	05:28	66	12:00	85N	18:32	294	18:56
2024	Jun	04	(Tue)	05:04	05:28	66	12:00	85N	18:32	294	18:56
2024	Jun	05	(Wed)	05:04	05:28	66	12:00	85N	18:33	294	18:56
2024	Jun	06	(Thu)	05:04	05:28	66	12:00	85N	18:33	294	18:57
2024	Jun	07	(Fri)	05:04	05:28	66	12:01	84N	18:33	294	18:57
2024	Jun	08	(Sat)	05:04	05:28	66	12:01	84N	18:34	294	18:57
2024	Jun	09	(Sun)	05:04	05:28	66	12:01	84N	18:34	294	18:58
2024	Jun	10	(Mon)	05:04	05:28	66	12:01	84N	18:34	294	18:58
2024	Jun	11	(Tue)	05:05	05:28	66	12:01	84N	18:35	294	18:58
2024	Jun	12	(Wed)	05:05	05:29	65	12:02	84N	18:35	295	18:59
2024	Jun	13	(Thu)	05:05	05:29	65	12:02	84N	18:35	295	18:59
2024	Jun	14	(Fri)	05:05	05:29	65	12:02	84N	18:35	295	18:59
2024	Jun	15	(Sat)	05:05	05:29	65	12:02	84N	18:36	295	19:00
2024	Jun	16	(Sun)	05:05	05:29	65	12:03	84N	18:36	295	19:00
2024	Jun	17	(Mon)	05:05	05:29	65	12:03	84N	18:36	295	19:00
2024	Jun	18	(Tue)	05:06	05:29	65	12:03	84N	18:36	295	19:00
2024	Jun	19	(Wed)	05:06	05:30	65	12:03	84N	18:37	295	19:01
2024	Jun	20	(Thu)	05:06	05:30	65	12:03	84N	18:37	295	19:01
2024	Jun	21	(Fri)	05:06	05:30	65	12:04	84N	18:37	295	19:01
2024	Jun	22	(Sat)	05:06	05:30	65	12:04	84N	18:37	295	19:01
2024	Jun	23	(Sun)	05:07	05:31	65	12:04	84N	18:38	295	19:01
2024	Jun	24	(Mon)	05:07	05:31	65	12:04	84N	18:38	295	19:02
2024	Jun	25	(Tue)	05:07	05:31	65	12:04	84N	18:38	295	19:02
2024	Jun	26	(Wed)	05:07	05:31	65	12:05	84N	18:38	295	19:02
2024	Jun	27	(Thu)	05:08	05:32	65	12:05	84N	18:38	295	19:02
2024	Jun	28	(Fri)	05:08	05:32	65	12:05	84N	18:38	295	19:02
2024	Jun	29	(Sat)	05:08	05:32	65	12:05	84N	18:38	295	19:02
2024	Jun	30	(Sun)	05:08	05:32	66	12:05	84N	18:39	294	19:02
2024	Jul	01	(Mon)	05:09	05:33	66	12:06	84N	18:39	294	19:02
2024	Jul	02	(Tue)	05:09	05:33	66	12:06	84N	18:39	294	19:03
2024	Jul	03	(Wed)	05:09	05:33	66	12:06	84N	18:39	294	19:03
2024	Jul	04	(Thu)	05:10	05:34	66	12:06	84N	18:39	294	19:03
2024	Jul	05	(Fri)	05:10	05:34	66	12:06	85N	18:39	294	19:03
2024	Jul	06	(Sat)	05:10	05:34	66	12:07	85N	18:39	294	19:03
2024	Jul	07	(Sun)	05:11	05:35	66	12:07	85N	18:39	294	19:03
2024	Jul	08	(Mon)	05:11	05:35	66	12:07	85N	18:39	294	19:03
2024	Jul	09	(Tue)	05:11	05:35	66	12:07	85N	18:39	294	19:03
2024	Jul	10	(Wed)	05:12	05:35	67	12:07	85N	18:39	293	19:02
2024	Jul	11	(Thu)	05:12	05:36	67	12:07	85N	18:39	293	19:02
2024	Jul	12	(Fri)	05:12	05:36	67	12:07	85N	18:39	293	19:02
2024	Jul	13	(Sat)	05:13	05:36	67	12:08	86N	18:39	293	19:02
2024	Jul	14	(Sun)	05:13	05:37	67	12:08	86N	18:38	293	19:02
2024	Jul	15	(Mon)	05:14	05:37	67	12:08	86N	18:38	293	19:02
2024	Jul	16	(Tue)	05:14	05:37	67	12:08	86N	18:38	292	19:02
2024	Jul	17	(Wed)	05:14	05:38	68	12:08	86N	18:38	292	19:02
2024	Jul	18	(Thu)	05:15	05:38	68	12:08	86N	18:38	292	19:01
2024	Jul	19	(Fri)	05:15	05:38	68	12:08	87N	18:38	292	19:01
2024	Jul	20	(Sat)	05:15	05:39	68	12:08	87N	18:37	292	19:01
2024	Jul	21	(Sun)	05:16	05:39	68	12:08	87N	18:37	292	19:01
2024	Jul	22	(Mon)	05:16	05:39	69	12:08	87N	18:37	291	19:00
2024	Jul	23	(Tue)	05:16	05:40	69	12:08	87N	18:37	291	19:00
2024	Jul	24	(Wed)	05:17	05:40	69	12:08	88N	18:36	291	19:00
2024	Jul	25	(Thu)	05:17	05:40	69	12:08	88N	18:36	291	18:59
2024	Jul	26	(Fri)	05:17	05:41	69	12:08	88N	18:36	290	18:59
2024	Jul	27	(Sat)	05:18	05:41	70	12:08	88N	18:36	290	18:59
2024	Jul	28	(Sun)	05:18	05:41	70	12:08	88N	18:35	290	18:58
2024	Jul	29	(Mon)	05:18	05:41	70	12:08	89N	18:35	290	18:58
2024	Jul	30	(Tue)	05:19	05:42	70	12:08	89N	18:34	289	18:57

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

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

2024	Dec 12	(Thu)	05:57	06:21	114	11:56	51S	17:30	246	17:54
2024	Dec 13	(Fri)	05:58	06:21	114	11:56	51S	17:31	246	17:54
2024	Dec 14	(Sat)	05:58	06:22	114	11:56	51S	17:31	246	17:54
2024	Dec 15	(Sun)	05:59	06:22	114	11:57	51S	17:31	246	17:55
2024	Dec 16	(Mon)	06:00	06:23	114	11:57	51S	17:32	246	17:55
2024	Dec 17	(Tue)	06:00	06:24	114	11:58	51S	17:32	246	17:56
2024	Dec 18	(Wed)	06:01	06:24	114	11:58	51S	17:33	246	17:56
2024	Dec 19	(Thu)	06:01	06:25	114	11:59	51S	17:33	246	17:57
2024	Dec 20	(Fri)	06:02	06:25	114	11:59	51S	17:34	246	17:57
2024	Dec 21	(Sat)	06:02	06:26	114	12:00	51S	17:34	246	17:58
2024	Dec 22	(Sun)	06:03	06:26	114	12:00	51S	17:35	246	17:58
2024	Dec 23	(Mon)	06:03	06:27	114	12:01	51S	17:35	246	17:59
2024	Dec 24	(Tue)	06:04	06:27	114	12:01	51S	17:36	246	17:59
2024	Dec 25	(Wed)	06:04	06:28	114	12:02	51S	17:36	246	18:00
2024	Dec 26	(Thu)	06:04	06:28	114	12:02	51S	17:37	246	18:00
2024	Dec 27	(Fri)	06:05	06:28	114	12:03	51S	17:37	246	18:01
2024	Dec 28	(Sat)	06:05	06:29	114	12:03	51S	17:38	246	18:01
2024	Dec 29	(Sun)	06:06	06:29	114	12:04	51S	17:38	246	18:02
2024	Dec 30	(Mon)	06:06	06:30	114	12:04	51S	17:39	246	18:03
2024	Dec 31	(Tue)	06:07	06:30	114	12:05	51S	17:40	246	18:03

Moon

Mukdahan

Location: E104°33'53.9", N16°34'26.4", 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)	22:12	80		03:52	87S		10:17	282	
2024	Jan 02	(Tue)	22:58	86		04:33	82S		10:50	277	
2024	Jan 03	(Wed)	23:44	92		05:12	76S		11:22	271	
2024	Jan 04	(Thu)				05:51	70S		11:55	265	
2024	Jan 05	(Fri)	00:31	98		06:31	64S		12:28	259	
2024	Jan 06	(Sat)	01:21	104		07:14	59S		13:05	253	
2024	Jan 07	(Sun)	02:13	110		08:01	54S		13:46	248	
2024	Jan 08	(Mon)	03:10	114		08:53	50S		14:33	244	
2024	Jan 09	(Tue)	04:11	118		09:50	47S		15:27	241	
2024	Jan 10	(Wed)	05:14	119		10:51	45S		16:28	240	
2024	Jan 11	(Thu)	06:17	119		11:55	46S		17:34	242	
2024	Jan 12	(Fri)	07:17	117		12:58	49S		18:41	245	
2024	Jan 13	(Sat)	08:11	112		13:57	54S		19:47	251	
2024	Jan 14	(Sun)	09:00	106		14:53	60S		20:50	257	
2024	Jan 15	(Mon)	09:43	99		15:44	67S		21:49	264	
2024	Jan 16	(Tue)	10:24	92		16:33	74S		22:46	272	
2024	Jan 17	(Wed)	11:04	85		17:21	81S		23:43	279	
2024	Jan 18	(Thu)	11:43	78		18:09	87S				
2024	Jan 19	(Fri)	12:24	72		18:58	89N		00:39	285	
2024	Jan 20	(Sat)	13:09	67		19:50	84N		01:36	291	
2024	Jan 21	(Sun)	13:56	63		20:44	81N		02:34	295	
2024	Jan 22	(Mon)	14:48	61		21:39	79N		03:33	298	
2024	Jan 23	(Tue)	15:43	61		22:34	79N		04:30	299	
2024	Jan 24	(Wed)	16:38	62		23:27	81N		05:24	299	
2024	Jan 25	(Thu)	17:34	64					06:14	297	
2024	Jan 26	(Fri)	18:27	68		00:18	83N		06:59	294	
2024	Jan 27	(Sat)	19:18	73		01:05	87N		07:39	289	
2024	Jan 28	(Sun)	20:06	78		01:49	89S		08:16	284	
2024	Jan 29	(Mon)	20:53	84		02:30	84S		08:50	279	
2024	Jan 30	(Tue)	21:39	90		03:09	78S		09:22	273	
2024	Jan 31	(Wed)	22:25	96		03:48	72S		09:54	267	
2024	Feb 01	(Thu)	23:12	102		04:27	66S		10:26	261	
2024	Feb 02	(Fri)				05:08	61S		11:01	255	
2024	Feb 03	(Sat)	00:03	108		05:52	56S		11:39	250	
2024	Feb 04	(Sun)	00:56	112		06:40	51S		12:22	246	

2024 Feb 05 (Mon)	01:54 116	07:33 48S	13:11 242
2024 Feb 06 (Tue)	02:54 119	08:31 46S	14:08 240
2024 Feb 07 (Wed)	03:57 120	09:33 45S	15:10 241
2024 Feb 08 (Thu)	04:58 118	10:36 47S	16:17 243
2024 Feb 09 (Fri)	05:55 115	11:38 51S	17:25 248
2024 Feb 10 (Sat)	06:47 109	12:37 57S	18:30 254
2024 Feb 11 (Sun)	07:34 103	13:32 63S	19:33 261
2024 Feb 12 (Mon)	08:18 95	14:23 71S	20:34 269
2024 Feb 13 (Tue)	08:59 88	15:13 78S	21:33 276
2024 Feb 14 (Wed)	09:40 80	16:03 85S	22:31 283
2024 Feb 15 (Thu)	10:22 74	16:54 90N	23:29 289
2024 Feb 16 (Fri)	11:06 68	17:46 85N	
2024 Feb 17 (Sat)	11:53 64	18:39 81N	00:29 294
2024 Feb 18 (Sun)	12:44 61	19:34 79N	01:28 298
2024 Feb 19 (Mon)	13:38 60	20:30 79N	02:26 299
2024 Feb 20 (Tue)	14:33 61	21:23 80N	03:21 300
2024 Feb 21 (Wed)	15:28 63	22:14 82N	04:12 298
2024 Feb 22 (Thu)	16:22 67	23:02 86N	04:58 295
2024 Feb 23 (Fri)	17:13 71	23:47 91N	05:39 291
2024 Feb 24 (Sat)	18:02 76		06:16 286
2024 Feb 25 (Sun)	18:49 82	00:28 86S	06:51 281
2024 Feb 26 (Mon)	19:36 88	01:08 80S	07:23 275
2024 Feb 27 (Tue)	20:22 94	01:47 74S	07:55 269
2024 Feb 28 (Wed)	21:08 100	02:26 68S	08:27 263
2024 Feb 29 (Thu)	21:57 106	03:06 63S	09:00 257
2024 Mar 01 (Fri)	22:48 111	03:48 57S	09:37 252
2024 Mar 02 (Sat)	23:43 115	04:34 53S	10:17 247
2024 Mar 03 (Sun)		05:24 49S	11:02 243
2024 Mar 04 (Mon)	00:41 118	06:18 46S	11:54 241
2024 Mar 05 (Tue)	01:41 120	07:17 45S	12:52 240
2024 Mar 06 (Wed)	02:41 119	08:17 46S	13:55 241
2024 Mar 07 (Thu)	03:38 117	09:18 49S	15:01 245
2024 Mar 08 (Fri)	04:32 112	10:17 53S	16:07 250
2024 Mar 09 (Sat)	05:21 106	11:14 59S	17:11 257
2024 Mar 10 (Sun)	06:06 99	12:07 67S	18:13 264
2024 Mar 11 (Mon)	06:49 92	12:59 74S	19:14 272
2024 Mar 12 (Tue)	07:31 84	13:50 82S	20:14 280
2024 Mar 13 (Wed)	08:14 77	14:42 89S	21:15 287
2024 Mar 14 (Thu)	08:58 70	15:36 87N	22:17 293
2024 Mar 15 (Fri)	09:46 65	16:31 82N	23:18 297
2024 Mar 16 (Sat)	10:38 62	17:27 80N	
2024 Mar 17 (Sun)	11:32 60	18:24 79N	00:19 299
2024 Mar 18 (Mon)	12:28 60	19:19 79N	01:16 300
2024 Mar 19 (Tue)	13:23 62	20:11 81N	02:09 299
2024 Mar 20 (Wed)	14:18 65	21:00 85N	02:56 296
2024 Mar 21 (Thu)	15:09 70	21:45 89N	03:39 292
2024 Mar 22 (Fri)	15:59 75	22:27 87S	04:17 288
2024 Mar 23 (Sat)	16:47 80	23:08 82S	04:52 283
2024 Mar 24 (Sun)	17:33 86	23:47 76S	05:25 277
2024 Mar 25 (Mon)	18:19 92		05:57 271
2024 Mar 26 (Tue)	19:06 98	00:26 70S	06:29 265
2024 Mar 27 (Wed)	19:54 104	01:05 64S	07:02 259
2024 Mar 28 (Thu)	20:44 110	01:47 59S	07:37 253
2024 Mar 29 (Fri)	21:38 114	02:32 54S	08:16 248
2024 Mar 30 (Sat)	22:34 118	03:20 50S	08:59 244
2024 Mar 31 (Sun)	23:32 120	04:12 47S	09:48 241
2024 Apr 01 (Mon)		05:08 45S	10:43 240
2024 Apr 02 (Tue)	00:31 120	06:06 45S	11:43 241
2024 Apr 03 (Wed)	01:28 118	07:05 47S	12:45 243
2024 Apr 04 (Thu)	02:21 115	08:03 51S	13:49 247
2024 Apr 05 (Fri)	03:10 110	08:59 56S	14:51 253
2024 Apr 06 (Sat)	03:55 103	09:52 63S	15:53 260
2024 Apr 07 (Sun)	04:38 96	10:43 70S	16:53 268
2024 Apr 08 (Mon)	05:20 88	11:34 78S	17:53 276
2024 Apr 09 (Tue)	06:02 80	12:26 85S	18:55 283
2024 Apr 10 (Wed)	06:47 73	13:20 90N	19:57 290
2024 Apr 11 (Thu)	07:34 68	14:16 84N	21:01 295

2024 Apr 12 (Fri)	08:25 63	15:13 81N	22:04 298
2024 Apr 13 (Sat)	09:20 61	16:12 79N	23:05 300
2024 Apr 14 (Sun)	10:17 60	17:10 79N	
2024 Apr 15 (Mon)	11:15 61	18:05 80N	00:01 299
2024 Apr 16 (Tue)	12:11 64	18:55 83N	00:52 297
2024 Apr 17 (Wed)	13:04 68	19:42 87N	01:37 294
2024 Apr 18 (Thu)	13:55 73	20:26 89S	02:17 290
2024 Apr 19 (Fri)	14:43 78	21:06 84S	02:53 284
2024 Apr 20 (Sat)	15:29 84	21:46 78S	03:26 279
2024 Apr 21 (Sun)	16:15 90	22:25 72S	03:58 273
2024 Apr 22 (Mon)	17:02 96	23:04 66S	04:30 267
2024 Apr 23 (Tue)	17:50 102	23:45 61S	05:03 261
2024 Apr 24 (Wed)	18:40 108		05:38 255
2024 Apr 25 (Thu)	19:33 113	00:29 55S	06:16 250
2024 Apr 26 (Fri)	20:29 117	01:17 51S	06:58 245
2024 Apr 27 (Sat)	21:27 119	02:08 47S	07:45 242
2024 Apr 28 (Sun)	22:26 120	03:03 45S	08:38 240
2024 Apr 29 (Mon)	23:22 119	04:01 45S	09:36 240
2024 Apr 30 (Tue)		04:59 46S	10:37 242
2024 May 01 (Wed)	00:16 116	05:56 50S	11:39 246
2024 May 02 (Thu)	01:05 112	06:51 54S	12:40 251
2024 May 03 (Fri)	01:50 106	07:43 60S	13:40 257
2024 May 04 (Sat)	02:32 99	08:33 67S	14:38 265
2024 May 05 (Sun)	03:13 92	09:22 74S	15:37 272
2024 May 06 (Mon)	03:53 84	10:12 82S	16:36 280
2024 May 07 (Tue)	04:36 77	11:04 88S	17:37 287
2024 May 08 (Wed)	05:21 70	11:59 87N	18:40 293
2024 May 09 (Thu)	06:11 65	12:56 82N	19:44 297
2024 May 10 (Fri)	07:05 62	13:56 80N	20:48 299
2024 May 11 (Sat)	08:03 60	14:55 79N	21:48 300
2024 May 12 (Sun)	09:02 61	15:53 80N	22:43 298
2024 May 13 (Mon)	10:00 63	16:47 82N	23:31 295
2024 May 14 (Tue)	10:55 66	17:36 86N	
2024 May 15 (Wed)	11:48 71	18:21 90N	00:13 291
2024 May 16 (Thu)	12:37 76	19:03 86S	00:51 286
2024 May 17 (Fri)	13:24 82	19:43 80S	01:26 281
2024 May 18 (Sat)	14:10 88	20:22 74S	01:59 275
2024 May 19 (Sun)	14:57 94	21:01 69S	02:30 269
2024 May 20 (Mon)	15:44 100	21:42 63S	03:03 263
2024 May 21 (Tue)	16:33 106	22:25 57S	03:37 257
2024 May 22 (Wed)	17:26 111	23:11 52S	04:13 252
2024 May 23 (Thu)	18:21 115		04:54 247
2024 May 24 (Fri)	19:20 118	00:02 49S	05:41 243
2024 May 25 (Sat)	20:19 120	00:57 46S	06:33 241
2024 May 26 (Sun)	21:17 119	01:55 45S	07:30 240
2024 May 27 (Mon)	22:12 117	02:54 46S	08:31 242
2024 May 28 (Tue)	23:03 113	03:52 49S	09:33 245
2024 May 29 (Wed)	23:48 107	04:47 53S	10:35 250
2024 May 30 (Thu)		05:39 58S	11:34 256
2024 May 31 (Fri)	00:31 101	06:29 65S	12:31 262
2024 Jun 01 (Sat)	01:10 94	07:17 72S	13:28 270
2024 Jun 02 (Sun)	01:50 87	08:05 79S	14:25 277
2024 Jun 03 (Mon)	02:30 80	08:54 86S	15:23 284
2024 Jun 04 (Tue)	03:13 73	09:46 89N	16:24 290
2024 Jun 05 (Wed)	04:00 67	10:41 84N	17:27 295
2024 Jun 06 (Thu)	04:51 63	11:39 81N	18:30 298
2024 Jun 07 (Fri)	05:47 61	12:39 79N	19:32 300
2024 Jun 08 (Sat)	06:46 60	13:39 79N	20:30 299
2024 Jun 09 (Sun)	07:46 62	14:35 81N	21:22 297
2024 Jun 10 (Mon)	08:43 65	15:27 84N	22:07 293
2024 Jun 11 (Tue)	09:38 69	16:15 88N	22:48 288
2024 Jun 12 (Wed)	10:29 74	16:58 88S	23:24 283
2024 Jun 13 (Thu)	11:18 80	17:39 82S	23:57 277
2024 Jun 14 (Fri)	12:04 86	18:19 77S	
2024 Jun 15 (Sat)	12:50 92	18:57 71S	00:29 271
2024 Jun 16 (Sun)	13:37 98	19:37 65S	01:01 265
2024 Jun 17 (Mon)	14:25 104	20:19 59S	01:34 259

2024 Jun 18 (Tue)	15:16 109	21:04 54S	02:10 254
2024 Jun 19 (Wed)	16:10 114	21:53 50S	02:49 249
2024 Jun 20 (Thu)	17:08 117	22:46 47S	03:33 244
2024 Jun 21 (Fri)	18:08 119	23:44 45S	04:23 242
2024 Jun 22 (Sat)	19:08 120		05:20 240
2024 Jun 23 (Sun)	20:05 118	00:44 45S	06:21 241
2024 Jun 24 (Mon)	20:58 114	01:44 48S	07:24 244
2024 Jun 25 (Tue)	21:46 109	02:41 51S	08:27 248
2024 Jun 26 (Wed)	22:30 103	03:36 57S	09:28 254
2024 Jun 27 (Thu)	23:11 96	04:27 63S	10:27 260
2024 Jun 28 (Fri)	23:50 89	05:15 70S	11:24 268
2024 Jun 29 (Sat)		06:03 77S	12:20 275
2024 Jun 30 (Sun)	00:29 82	06:51 84S	13:17 282
2024 Jul 01 (Mon)	01:10 75	07:41 90S	14:15 288
2024 Jul 02 (Tue)	01:55 69	08:33 86N	15:16 294
2024 Jul 03 (Wed)	02:43 64	09:29 82N	16:18 297
2024 Jul 04 (Thu)	03:36 61	10:27 79N	17:19 299
2024 Jul 05 (Fri)	04:34 60	11:26 79N	18:18 299
2024 Jul 06 (Sat)	05:33 61	12:23 80N	19:12 298
2024 Jul 07 (Sun)	06:31 64	13:17 83N	20:00 295
2024 Jul 08 (Mon)	07:27 67	14:07 87N	20:43 290
2024 Jul 09 (Tue)	08:20 72	14:52 90S	21:21 285
2024 Jul 10 (Wed)	09:10 78	15:35 84S	21:56 279
2024 Jul 11 (Thu)	09:58 84	16:15 79S	22:28 273
2024 Jul 12 (Fri)	10:44 90	16:54 73S	23:00 267
2024 Jul 13 (Sat)	11:30 96	17:33 67S	23:32 261
2024 Jul 14 (Sun)	12:17 102	18:13 61S	
2024 Jul 15 (Mon)	13:06 107	18:56 56S	00:06 256
2024 Jul 16 (Tue)	13:58 112	19:42 52S	00:43 251
2024 Jul 17 (Wed)	14:54 116	20:34 48S	01:24 246
2024 Jul 18 (Thu)	15:53 119	21:29 46S	02:12 243
2024 Jul 19 (Fri)	16:53 120	22:29 45S	03:05 241
2024 Jul 20 (Sat)	17:52 119	23:30 46S	04:05 240
2024 Jul 21 (Sun)	18:48 116		05:09 242
2024 Jul 22 (Mon)	19:40 111	00:30 50S	06:13 246
2024 Jul 23 (Tue)	20:26 105	01:27 55S	07:17 252
2024 Jul 24 (Wed)	21:09 98	02:20 61S	08:18 258
2024 Jul 25 (Thu)	21:49 91	03:11 68S	09:17 265
2024 Jul 26 (Fri)	22:29 83	04:00 75S	10:15 273
2024 Jul 27 (Sat)	23:10 77	04:48 82S	11:12 280
2024 Jul 28 (Sun)	23:53 70	05:38 89S	12:10 287
2024 Jul 29 (Mon)		06:29 87N	13:10 292
2024 Jul 30 (Tue)	00:40 66	07:24 83N	14:11 297
2024 Jul 31 (Wed)	01:31 62	08:21 80N	15:12 299
2024 Aug 01 (Thu)	02:26 60	09:18 79N	16:11 300
2024 Aug 02 (Fri)	03:24 61	10:16 79N	17:06 299
2024 Aug 03 (Sat)	04:22 62	11:10 82N	17:55 296
2024 Aug 04 (Sun)	05:19 66	12:01 85N	18:39 292
2024 Aug 05 (Mon)	06:13 70	12:48 90N	19:19 287
2024 Aug 06 (Tue)	07:03 76	13:31 86S	19:54 281
2024 Aug 07 (Wed)	07:52 81	14:12 81S	20:28 276
2024 Aug 08 (Thu)	08:38 87	14:51 75S	20:59 270
2024 Aug 09 (Fri)	09:24 94	15:29 69S	21:31 264
2024 Aug 10 (Sat)	10:10 99	16:09 63S	22:04 258
2024 Aug 11 (Sun)	10:58 105	16:50 58S	22:39 252
2024 Aug 12 (Mon)	11:48 110	17:34 53S	23:18 248
2024 Aug 13 (Tue)	12:42 115	18:23 49S	
2024 Aug 14 (Wed)	13:38 118	19:15 46S	00:02 244
2024 Aug 15 (Thu)	14:37 120	20:12 45S	00:51 241
2024 Aug 16 (Fri)	15:36 120	21:12 45S	01:48 240
2024 Aug 17 (Sat)	16:33 118	22:12 48S	02:49 241
2024 Aug 18 (Sun)	17:27 114	23:11 52S	03:53 244
2024 Aug 19 (Mon)	18:16 108		04:58 249
2024 Aug 20 (Tue)	19:01 101	00:07 58S	06:02 255
2024 Aug 21 (Wed)	19:44 94	01:00 65S	07:03 262
2024 Aug 22 (Thu)	20:25 86	01:51 72S	08:03 270
2024 Aug 23 (Fri)	21:07 79	02:42 79S	09:02 278

2024 Aug 24 (Sat)	21:50	72	03:32	87S	10:02	285
2024 Aug 25 (Sun)	22:37	67	04:25	89N	11:03	291
2024 Aug 26 (Mon)	23:27	63	05:19	84N	12:05	296
2024 Aug 27 (Tue)			06:16	80N	13:07	299
2024 Aug 28 (Wed)	00:22	61	07:14	79N	14:06	300
2024 Aug 29 (Thu)	01:19	60	08:11	79N	15:02	299
2024 Aug 30 (Fri)	02:16	62	09:06	81N	15:53	297
2024 Aug 31 (Sat)	03:13	64	09:57	84N	16:38	293
2024 Sep 01 (Sun)	04:07	69	10:45	88N	17:18	289
2024 Sep 02 (Mon)	04:59	74	11:29	88S	17:55	283
2024 Sep 03 (Tue)	05:48	79	12:10	83S	18:28	278
2024 Sep 04 (Wed)	06:34	85	12:49	77S	19:01	272
2024 Sep 05 (Thu)	07:20	91	13:28	71S	19:32	266
2024 Sep 06 (Fri)	08:06	97	14:07	65S	20:04	260
2024 Sep 07 (Sat)	08:53	103	14:47	60S	20:38	254
2024 Sep 08 (Sun)	09:42	109	15:30	55S	21:15	249
2024 Sep 09 (Mon)	10:34	113	16:16	50S	21:56	245
2024 Sep 10 (Tue)	11:28	117	17:06	47S	22:43	242
2024 Sep 11 (Wed)	12:24	119	18:00	45S	23:35	240
2024 Sep 12 (Thu)	13:22	120	18:57	45S		
2024 Sep 13 (Fri)	14:19	119	19:56	46S	00:32	240
2024 Sep 14 (Sat)	15:13	116	20:54	50S	01:34	242
2024 Sep 15 (Sun)	16:03	111	21:50	55S	02:37	246
2024 Sep 16 (Mon)	16:50	105	22:44	61S	03:41	251
2024 Sep 17 (Tue)	17:34	98	23:37	68S	04:43	258
2024 Sep 18 (Wed)	18:16	90			05:44	266
2024 Sep 19 (Thu)	18:59	82	00:28	76S	06:45	274
2024 Sep 20 (Fri)	19:42	75	01:20	83S	07:46	282
2024 Sep 21 (Sat)	20:29	69	02:13	90S	08:49	288
2024 Sep 22 (Sun)	21:20	64	03:09	85N	09:53	294
2024 Sep 23 (Mon)	22:15	61	04:07	81N	10:57	298
2024 Sep 24 (Tue)	23:12	60	05:06	79N	11:59	300
2024 Sep 25 (Wed)			06:05	78N	12:58	300
2024 Sep 26 (Thu)	00:11	61	07:02	80N	13:51	298
2024 Sep 27 (Fri)	01:08	63	07:54	83N	14:37	295
2024 Sep 28 (Sat)	02:03	67	08:43	87N	15:19	290
2024 Sep 29 (Sun)	02:55	72	09:28	90S	15:56	285
2024 Sep 30 (Mon)	03:45	77	10:09	85S	16:30	280
2024 Oct 01 (Tue)	04:32	83	10:49	79S	17:03	274
2024 Oct 02 (Wed)	05:18	89	11:28	73S	17:34	268
2024 Oct 03 (Thu)	06:04	96	12:07	67S	18:06	262
2024 Oct 04 (Fri)	06:50	101	12:46	61S	18:39	256
2024 Oct 05 (Sat)	07:39	107	13:28	56S	19:15	251
2024 Oct 06 (Sun)	08:29	112	14:13	52S	19:55	246
2024 Oct 07 (Mon)	09:22	116	15:01	48S	20:39	243
2024 Oct 08 (Tue)	10:17	119	15:53	46S	21:28	241
2024 Oct 09 (Wed)	11:14	120	16:48	45S	22:23	240
2024 Oct 10 (Thu)	12:09	120	17:45	45S	23:21	241
2024 Oct 11 (Fri)	13:03	118	18:41	48S		
2024 Oct 12 (Sat)	13:53	114	19:36	52S	00:22	244
2024 Oct 13 (Sun)	14:40	108	20:30	58S	01:23	249
2024 Oct 14 (Mon)	15:23	102	21:21	64S	02:24	255
2024 Oct 15 (Tue)	16:05	94	22:12	72S	03:24	262
2024 Oct 16 (Wed)	16:47	86	23:04	79S	04:24	270
2024 Oct 17 (Thu)	17:30	79	23:56	87S	05:25	278
2024 Oct 18 (Fri)	18:16	72			06:27	285
2024 Oct 19 (Sat)	19:07	66	00:52	88N	07:32	291
2024 Oct 20 (Sun)	20:02	62	01:51	83N	08:39	296
2024 Oct 21 (Mon)	21:00	60	02:52	80N	09:45	299
2024 Oct 22 (Tue)	22:01	60	03:54	78N	10:47	300
2024 Oct 23 (Wed)	23:00	62	04:53	79N	11:44	299
2024 Oct 24 (Thu)	23:57	66	05:49	81N	12:34	296
2024 Oct 25 (Fri)			06:39	85N	13:18	292
2024 Oct 26 (Sat)	00:51	70	07:26	90N	13:57	287
2024 Oct 27 (Sun)	01:41	76	08:08	86S	14:32	281
2024 Oct 28 (Mon)	02:29	81	08:49	81S	15:05	276
2024 Oct 29 (Tue)	03:15	87	09:28	75S	15:36	270

2024 Oct 30 (Wed)	04:01 94	10:06 69S	16:08 264
2024 Oct 31 (Thu)	04:47 99	10:46 63S	16:41 258
2024 Nov 01 (Fri)	05:35 105	11:27 58S	17:16 252
2024 Nov 02 (Sat)	06:25 110	12:11 53S	17:55 248
2024 Nov 03 (Sun)	07:18 115	12:59 49S	18:37 244
2024 Nov 04 (Mon)	08:13 118	13:50 46S	19:25 241
2024 Nov 05 (Tue)	09:09 120	14:44 45S	20:18 240
2024 Nov 06 (Wed)	10:04 120	15:39 45S	21:15 241
2024 Nov 07 (Thu)	10:58 118	16:35 47S	22:14 243
2024 Nov 08 (Fri)	11:48 115	17:29 51S	23:13 247
2024 Nov 09 (Sat)	12:34 110	18:21 55S	
2024 Nov 10 (Sun)	13:17 104	19:12 61S	00:12 252
2024 Nov 11 (Mon)	13:58 98	20:01 68S	01:10 259
2024 Nov 12 (Tue)	14:38 90	20:50 76S	02:08 266
2024 Nov 13 (Wed)	15:19 83	21:40 83S	03:06 274
2024 Nov 14 (Thu)	16:03 75	22:34 90S	04:06 281
2024 Nov 15 (Fri)	16:51 69	23:31 86N	05:09 288
2024 Nov 16 (Sat)	17:44 64		06:15 294
2024 Nov 17 (Sun)	18:42 61	00:31 81N	07:22 298
2024 Nov 18 (Mon)	19:43 60	01:34 79N	08:28 300
2024 Nov 19 (Tue)	20:46 61	02:37 79N	09:30 299
2024 Nov 20 (Wed)	21:46 64	03:36 80N	10:24 297
2024 Nov 21 (Thu)	22:42 69	04:31 84N	11:12 293
2024 Nov 22 (Fri)	23:35 74	05:20 88N	11:54 289
2024 Nov 23 (Sat)		06:05 88S	12:31 283
2024 Nov 24 (Sun)	00:24 79	06:46 83S	13:05 278
2024 Nov 25 (Mon)	01:11 85	07:26 77S	13:37 272
2024 Nov 26 (Tue)	01:57 91	08:04 71S	14:09 266
2024 Nov 27 (Wed)	02:43 97	08:44 65S	14:41 260
2024 Nov 28 (Thu)	03:30 103	09:24 60S	15:15 254
2024 Nov 29 (Fri)	04:19 109	10:07 55S	15:53 249
2024 Nov 30 (Sat)	05:11 113	10:54 50S	16:34 245
2024 Dec 01 (Sun)	06:06 117	11:44 47S	17:21 242
2024 Dec 02 (Mon)	07:03 119	12:38 45S	18:13 240
2024 Dec 03 (Tue)	07:59 120	13:34 45S	19:10 240
2024 Dec 04 (Wed)	08:54 119	14:31 46S	20:09 242
2024 Dec 05 (Thu)	09:46 116	15:26 50S	21:08 246
2024 Dec 06 (Fri)	10:33 112	16:18 54S	22:07 251
2024 Dec 07 (Sat)	11:16 106	17:08 60S	23:04 257
2024 Dec 08 (Sun)	11:56 100	17:56 66S	24:00 264
2024 Dec 09 (Mon)	12:35 93	18:43 73S	
2024 Dec 10 (Tue)	13:14 85	19:31 80S	00:56 271
2024 Dec 11 (Wed)	13:55 78	20:21 87S	01:53 278
2024 Dec 12 (Thu)	14:40 72	21:15 88N	02:52 285
2024 Dec 13 (Fri)	15:29 66	22:12 83N	03:55 291
2024 Dec 14 (Sat)	16:23 62	23:14 80N	05:00 296
2024 Dec 15 (Sun)	17:23 60		06:06 299
2024 Dec 16 (Mon)	18:26 61	00:17 79N	07:10 300
2024 Dec 17 (Tue)	19:29 63	01:19 79N	08:09 298
2024 Dec 18 (Wed)	20:28 67	02:17 82N	09:02 295
2024 Dec 19 (Thu)	21:24 72	03:09 86N	09:47 291
2024 Dec 20 (Fri)	22:15 77	03:57 90S	10:27 286
2024 Dec 21 (Sat)	23:04 83	04:41 85S	11:02 280
2024 Dec 22 (Sun)	23:51 89	05:22 79S	11:36 274
2024 Dec 23 (Mon)		06:01 73S	12:08 268
2024 Dec 24 (Tue)	00:37 95	06:40 67S	12:40 262
2024 Dec 25 (Wed)	01:23 101	07:20 62S	13:13 256
2024 Dec 26 (Thu)	02:11 107	08:02 56S	13:49 251
2024 Dec 27 (Fri)	03:02 112	08:47 52S	14:29 246
2024 Dec 28 (Sat)	03:56 116	09:36 48S	15:14 243
2024 Dec 29 (Sun)	04:52 118	10:29 46S	16:04 241
2024 Dec 30 (Mon)	05:50 120	11:25 45S	17:00 240
2024 Dec 31 (Tue)	06:46 119	12:22 46S	17:59 241