

Sun

Kalasin

Location: E103°33'03.6", N16°18'35.9", 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	06:34	114	12:09	51S	17:44	246	18:35
2024	Jan	02 (Tue)	05:44	06:34	114	12:09	51S	17:45	246	18:35
2024	Jan	03 (Wed)	05:44	06:34	114	12:10	52S	17:46	246	18:36
2024	Jan	04 (Thu)	05:45	06:35	114	12:10	52S	17:46	247	18:36
2024	Jan	05 (Fri)	05:45	06:35	113	12:11	52S	17:47	247	18:37
2024	Jan	06 (Sat)	05:45	06:35	113	12:11	52S	17:47	247	18:37
2024	Jan	07 (Sun)	05:46	06:36	113	12:12	52S	17:48	247	18:38
2024	Jan	08 (Mon)	05:46	06:36	113	12:12	52S	17:49	247	18:39
2024	Jan	09 (Tue)	05:46	06:36	113	12:13	52S	17:49	247	18:39
2024	Jan	10 (Wed)	05:46	06:36	113	12:13	52S	17:50	247	18:40
2024	Jan	11 (Thu)	05:47	06:37	113	12:13	53S	17:50	247	18:40
2024	Jan	12 (Fri)	05:47	06:37	112	12:14	53S	17:51	248	18:41
2024	Jan	13 (Sat)	05:47	06:37	112	12:14	53S	17:52	248	18:41
2024	Jan	14 (Sun)	05:47	06:37	112	12:15	53S	17:52	248	18:42
2024	Jan	15 (Mon)	05:48	06:37	112	12:15	53S	17:53	248	18:42
2024	Jan	16 (Tue)	05:48	06:37	112	12:15	53S	17:53	248	18:43
2024	Jan	17 (Wed)	05:48	06:37	112	12:16	54S	17:54	249	18:43
2024	Jan	18 (Thu)	05:48	06:38	111	12:16	54S	17:55	249	18:44
2024	Jan	19 (Fri)	05:48	06:38	111	12:16	54S	17:55	249	18:44
2024	Jan	20 (Sat)	05:48	06:38	111	12:17	54S	17:56	249	18:45
2024	Jan	21 (Sun)	05:48	06:38	111	12:17	54S	17:56	249	18:45
2024	Jan	22 (Mon)	05:48	06:38	110	12:17	55S	17:57	250	18:46
2024	Jan	23 (Tue)	05:48	06:38	110	12:17	55S	17:57	250	18:46
2024	Jan	24 (Wed)	05:49	06:38	110	12:18	55S	17:58	250	18:47
2024	Jan	25 (Thu)	05:49	06:37	110	12:18	55S	17:59	250	18:47
2024	Jan	26 (Fri)	05:49	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	06:37	109	12:19	56S	18:00	251	18:49
2024	Jan	29 (Mon)	05:48	06:37	109	12:19	56S	18:01	251	18:49
2024	Jan	30 (Tue)	05:48	06:37	108	12:19	57S	18:01	252	18:50
2024	Jan	31 (Wed)	05:48	06:37	108	12:19	57S	18:02	252	18:50
2024	Feb	01 (Thu)	05:48	06:36	108	12:19	57S	18:02	252	18:51
2024	Feb	02 (Fri)	05:48	06:36	108	12:19	57S	18:03	253	18:51
2024	Feb	03 (Sat)	05:48	06:36	107	12:19	58S	18:03	253	18:51
2024	Feb	04 (Sun)	05:48	06:36	107	12:20	58S	18:04	253	18:52
2024	Feb	05 (Mon)	05:47	06:35	107	12:20	58S	18:04	254	18:52
2024	Feb	06 (Tue)	05:47	06:35	106	12:20	59S	18:05	254	18:53
2024	Feb	07 (Wed)	05:47	06:35	106	12:20	59S	18:05	254	18:53
2024	Feb	08 (Thu)	05:47	06:35	106	12:20	59S	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)	05:46	06:34	105	12:20	60S	18:06	255	18:54
2024	Feb	11 (Sun)	05:46	06:33	105	12:20	60S	18:07	256	18:54
2024	Feb	12 (Mon)	05:45	06:33	104	12:20	61S	18:07	256	18:55
2024	Feb	13 (Tue)	05:45	06:33	104	12:20	61S	18:08	256	18:55
2024	Feb	14 (Wed)	05:45	06:32	104	12:20	61S	18:08	257	18:55
2024	Feb	15 (Thu)	05:44	06:32	103	12:20	62S	18:08	257	18:56
2024	Feb	16 (Fri)	05:44	06:31	103	12:20	62S	18:09	257	18:56
2024	Feb	17 (Sat)	05:43	06:31	103	12:20	62S	18:09	258	18:56
2024	Feb	18 (Sun)	05:43	06:30	102	12:20	63S	18:09	258	18:57
2024	Feb	19 (Mon)	05:43	06:30	102	12:20	63S	18:10	258	18:57
2024	Feb	20 (Tue)	05:42	06:29	101	12:20	63S	18:10	259	18:57
2024	Feb	21 (Wed)	05:42	06:29	101	12:19	64S	18:10	259	18:58
2024	Feb	22 (Thu)	05:41	06:28	101	12:19	64S	18:11	260	18:58
2024	Feb	23 (Fri)	05:41	06:28	100	12:19	64S	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)	05:40	06:27	100	12:19	65S	18:12	261	18:59
2024	Feb	26 (Mon)	05:39	06:26	99	12:19	65S	18:12	261	18:59
2024	Feb	27 (Tue)	05:38	06:25	99	12:19	66S	18:12	261	18:59
2024	Feb	28 (Wed)	05:38	06:25	98	12:18	66S	18:12	262	18:59
2024	Feb	29 (Thu)	05:37	06:24	98	12:18	67S	18:13	262	18:59

2024	Mar	01	(Fri)	05:37	06:23	98	12:18	67S	18:13	263	19:00
2024	Mar	02	(Sat)	05:36	06:23	97	12:18	67S	18:13	263	19:00
2024	Mar	03	(Sun)	05:35	06:22	97	12:18	68S	18:13	263	19:00
2024	Mar	04	(Mon)	05:35	06:21	96	12:17	68S	18:14	264	19:00
2024	Mar	05	(Tue)	05:34	06:21	96	12:17	69S	18:14	264	19:01
2024	Mar	06	(Wed)	05:33	06:20	96	12:17	69S	18:14	265	19:01
2024	Mar	07	(Thu)	05:33	06:19	95	12:17	69S	18:14	265	19:01
2024	Mar	08	(Fri)	05:32	06:19	95	12:16	70S	18:15	265	19:01
2024	Mar	09	(Sat)	05:31	06:18	94	12:16	70S	18:15	266	19:01
2024	Mar	10	(Sun)	05:31	06:17	94	12:16	70S	18:15	266	19:02
2024	Mar	11	(Mon)	05:30	06:17	94	12:16	71S	18:15	267	19:02
2024	Mar	12	(Tue)	05:29	06:16	93	12:15	71S	18:15	267	19:02
2024	Mar	13	(Wed)	05:29	06:15	93	12:15	72S	18:16	268	19:02
2024	Mar	14	(Thu)	05:28	06:14	92	12:15	72S	18:16	268	19:02
2024	Mar	15	(Fri)	05:27	06:14	92	12:15	72S	18:16	268	19:02
2024	Mar	16	(Sat)	05:26	06:13	91	12:14	73S	18:16	269	19:03
2024	Mar	17	(Sun)	05:26	06:12	91	12:14	73S	18:16	269	19:03
2024	Mar	18	(Mon)	05:25	06:11	91	12:14	74S	18:16	270	19:03
2024	Mar	19	(Tue)	05:24	06:11	90	12:13	74S	18:17	270	19:03
2024	Mar	20	(Wed)	05:23	06:10	90	12:13	74S	18:17	270	19:03
2024	Mar	21	(Thu)	05:23	06:09	89	12:13	75S	18:17	271	19:03
2024	Mar	22	(Fri)	05:22	06:08	89	12:13	75S	18:17	271	19:04
2024	Mar	23	(Sat)	05:21	06:08	89	12:12	76S	18:17	272	19:04
2024	Mar	24	(Sun)	05:20	06:07	88	12:12	76S	18:17	272	19:04
2024	Mar	25	(Mon)	05:19	06:06	88	12:12	76S	18:18	272	19:04
2024	Mar	26	(Tue)	05:19	06:05	87	12:11	77S	18:18	273	19:04
2024	Mar	27	(Wed)	05:18	06:05	87	12:11	77S	18:18	273	19:05
2024	Mar	28	(Thu)	05:17	06:04	87	12:11	78S	18:18	274	19:05
2024	Mar	29	(Fri)	05:16	06:03	86	12:10	78S	18:18	274	19:05
2024	Mar	30	(Sat)	05:15	06:02	86	12:10	78S	18:18	274	19:05
2024	Mar	31	(Sun)	05:15	06:02	85	12:10	79S	18:18	275	19:05
2024	Apr	01	(Mon)	05:14	06:01	85	12:10	79S	18:19	275	19:06
2024	Apr	02	(Tue)	05:13	06:00	85	12:09	80S	18:19	276	19:06
2024	Apr	03	(Wed)	05:12	05:59	84	12:09	80S	18:19	276	19:06
2024	Apr	04	(Thu)	05:12	05:59	84	12:09	80S	18:19	276	19:06
2024	Apr	05	(Fri)	05:11	05:58	83	12:08	81S	18:19	277	19:06
2024	Apr	06	(Sat)	05:10	05:57	83	12:08	81S	18:19	277	19:07
2024	Apr	07	(Sun)	05:09	05:56	83	12:08	81S	18:20	278	19:07
2024	Apr	08	(Mon)	05:08	05:56	82	12:08	82S	18:20	278	19:07
2024	Apr	09	(Tue)	05:08	05:55	82	12:07	82S	18:20	278	19:07
2024	Apr	10	(Wed)	05:07	05:54	81	12:07	83S	18:20	279	19:08
2024	Apr	11	(Thu)	05:06	05:53	81	12:07	83S	18:20	279	19:08
2024	Apr	12	(Fri)	05:05	05:53	81	12:07	83S	18:21	280	19:08
2024	Apr	13	(Sat)	05:05	05:52	80	12:06	84S	18:21	280	19:08
2024	Apr	14	(Sun)	05:04	05:51	80	12:06	84S	18:21	280	19:09
2024	Apr	15	(Mon)	05:03	05:51	79	12:06	84S	18:21	281	19:09
2024	Apr	16	(Tue)	05:02	05:50	79	12:06	85S	18:21	281	19:09
2024	Apr	17	(Wed)	05:02	05:49	79	12:05	85S	18:22	281	19:09
2024	Apr	18	(Thu)	05:01	05:49	78	12:05	85S	18:22	282	19:10
2024	Apr	19	(Fri)	05:00	05:48	78	12:05	86S	18:22	282	19:10
2024	Apr	20	(Sat)	04:59	05:47	78	12:05	86S	18:22	283	19:10
2024	Apr	21	(Sun)	04:59	05:47	77	12:04	86S	18:22	283	19:10
2024	Apr	22	(Mon)	04:58	05:46	77	12:04	87S	18:23	283	19:11
2024	Apr	23	(Tue)	04:57	05:46	77	12:04	87S	18:23	284	19:11
2024	Apr	24	(Wed)	04:57	05:45	76	12:04	87S	18:23	284	19:11
2024	Apr	25	(Thu)	04:56	05:44	76	12:04	88S	18:23	284	19:12
2024	Apr	26	(Fri)	04:55	05:44	76	12:04	88S	18:24	285	19:12
2024	Apr	27	(Sat)	04:55	05:43	75	12:03	88S	18:24	285	19:12
2024	Apr	28	(Sun)	04:54	05:43	75	12:03	89S	18:24	285	19:13
2024	Apr	29	(Mon)	04:53	05:42	75	12:03	89S	18:24	286	19:13
2024	Apr	30	(Tue)	04:53	05:42	74	12:03	89S	18:25	286	19:13
2024	May	01	(Wed)	04:52	05:41	74	12:03	90S	18:25	286	19:14
2024	May	02	(Thu)	04:52	05:41	74	12:03	90S	18:25	287	19:14
2024	May	03	(Fri)	04:51	05:40	73	12:03	90S	18:25	287	19:15
2024	May	04	(Sat)	04:51	05:40	73	12:03	91S	18:26	287	19:15
2024	May	05	(Sun)	04:50	05:39	73	12:02	91N	18:26	287	19:15
2024	May	06	(Mon)	04:49	05:39	72	12:02	90N	18:26	288	19:16
2024	May	07	(Tue)	04:49	05:38	72	12:02	90N	18:27	288	19:16
2024	May	08	(Wed)	04:48	05:38	72	12:02	90N	18:27	288	19:16
2024	May	09	(Thu)	04:48	05:38	72	12:02	90N	18:27	289	19:17
2024	May	10	(Fri)	04:47	05:37	71	12:02	89N	18:27	289	19:17
2024	May	11	(Sat)	04:47	05:37	71	12:02	89N	18:28	289	19:18

2024	May	12	(Sun)	04:47	05:36	71	12:02	89N	18:28	289	19:18
2024	May	13	(Mon)	04:46	05:36	70	12:02	89N	18:28	290	19:18
2024	May	14	(Tue)	04:46	05:36	70	12:02	88N	18:29	290	19:19
2024	May	15	(Wed)	04:45	05:35	70	12:02	88N	18:29	290	19:19
2024	May	16	(Thu)	04:45	05:35	70	12:02	88N	18:29	290	19:20
2024	May	17	(Fri)	04:45	05:35	70	12:02	88N	18:30	291	19:20
2024	May	18	(Sat)	04:44	05:35	69	12:02	87N	18:30	291	19:21
2024	May	19	(Sun)	04:44	05:34	69	12:02	87N	18:30	291	19:21
2024	May	20	(Mon)	04:44	05:34	69	12:02	87N	18:31	291	19:21
2024	May	21	(Tue)	04:43	05:34	69	12:02	87N	18:31	291	19:22
2024	May	22	(Wed)	04:43	05:34	68	12:02	87N	18:31	292	19:22
2024	May	23	(Thu)	04:43	05:34	68	12:03	86N	18:32	292	19:23
2024	May	24	(Fri)	04:42	05:33	68	12:03	86N	18:32	292	19:23
2024	May	25	(Sat)	04:42	05:33	68	12:03	86N	18:32	292	19:24
2024	May	26	(Sun)	04:42	05:33	68	12:03	86N	18:33	292	19:24
2024	May	27	(Mon)	04:42	05:33	67	12:03	86N	18:33	293	19:24
2024	May	28	(Tue)	04:42	05:33	67	12:03	85N	18:33	293	19:25
2024	May	29	(Wed)	04:41	05:33	67	12:03	85N	18:34	293	19:25
2024	May	30	(Thu)	04:41	05:33	67	12:03	85N	18:34	293	19:26
2024	May	31	(Fri)	04:41	05:33	67	12:04	85N	18:35	293	19:26
2024	Jun	01	(Sat)	04:41	05:33	67	12:04	85N	18:35	293	19:26
2024	Jun	02	(Sun)	04:41	05:33	67	12:04	85N	18:35	294	19:27
2024	Jun	03	(Mon)	04:41	05:33	66	12:04	85N	18:36	294	19:27
2024	Jun	04	(Tue)	04:41	05:33	66	12:04	85N	18:36	294	19:28
2024	Jun	05	(Wed)	04:41	05:33	66	12:04	84N	18:36	294	19:28
2024	Jun	06	(Thu)	04:41	05:33	66	12:05	84N	18:37	294	19:28
2024	Jun	07	(Fri)	04:41	05:33	66	12:05	84N	18:37	294	19:29
2024	Jun	08	(Sat)	04:41	05:33	66	12:05	84N	18:37	294	19:29
2024	Jun	09	(Sun)	04:41	05:33	66	12:05	84N	18:37	294	19:29
2024	Jun	10	(Mon)	04:41	05:33	66	12:05	84N	18:38	294	19:30
2024	Jun	11	(Tue)	04:41	05:33	66	12:06	84N	18:38	294	19:30
2024	Jun	12	(Wed)	04:41	05:33	66	12:06	84N	18:38	294	19:30
2024	Jun	13	(Thu)	04:41	05:33	65	12:06	84N	18:39	295	19:31
2024	Jun	14	(Fri)	04:41	05:33	65	12:06	84N	18:39	295	19:31
2024	Jun	15	(Sat)	04:41	05:34	65	12:06	84N	18:39	295	19:31
2024	Jun	16	(Sun)	04:42	05:34	65	12:07	84N	18:39	295	19:32
2024	Jun	17	(Mon)	04:42	05:34	65	12:07	84N	18:40	295	19:32
2024	Jun	18	(Tue)	04:42	05:34	65	12:07	84N	18:40	295	19:32
2024	Jun	19	(Wed)	04:42	05:34	65	12:07	84N	18:40	295	19:32
2024	Jun	20	(Thu)	04:42	05:34	65	12:07	84N	18:40	295	19:33
2024	Jun	21	(Fri)	04:42	05:35	65	12:08	84N	18:41	295	19:33
2024	Jun	22	(Sat)	04:43	05:35	65	12:08	84N	18:41	295	19:33
2024	Jun	23	(Sun)	04:43	05:35	65	12:08	84N	18:41	295	19:33
2024	Jun	24	(Mon)	04:43	05:35	65	12:08	84N	18:41	295	19:33
2024	Jun	25	(Tue)	04:43	05:36	65	12:09	84N	18:41	295	19:34
2024	Jun	26	(Wed)	04:44	05:36	65	12:09	84N	18:42	295	19:34
2024	Jun	27	(Thu)	04:44	05:36	65	12:09	84N	18:42	295	19:34
2024	Jun	28	(Fri)	04:44	05:36	65	12:09	84N	18:42	295	19:34
2024	Jun	29	(Sat)	04:45	05:37	65	12:09	84N	18:42	294	19:34
2024	Jun	30	(Sun)	04:45	05:37	66	12:10	84N	18:42	294	19:34
2024	Jul	01	(Mon)	04:45	05:37	66	12:10	84N	18:42	294	19:34
2024	Jul	02	(Tue)	04:46	05:38	66	12:10	84N	18:42	294	19:34
2024	Jul	03	(Wed)	04:46	05:38	66	12:10	84N	18:42	294	19:34
2024	Jul	04	(Thu)	04:46	05:38	66	12:10	84N	18:42	294	19:34
2024	Jul	05	(Fri)	04:47	05:38	66	12:10	84N	18:42	294	19:34
2024	Jul	06	(Sat)	04:47	05:39	66	12:11	84N	18:42	294	19:34
2024	Jul	07	(Sun)	04:47	05:39	66	12:11	84N	18:42	294	19:34
2024	Jul	08	(Mon)	04:48	05:39	66	12:11	85N	18:42	294	19:34
2024	Jul	09	(Tue)	04:48	05:40	66	12:11	85N	18:42	294	19:34
2024	Jul	10	(Wed)	04:48	05:40	67	12:11	85N	18:42	293	19:34
2024	Jul	11	(Thu)	04:49	05:40	67	12:11	85N	18:42	293	19:34
2024	Jul	12	(Fri)	04:49	05:41	67	12:12	85N	18:42	293	19:34
2024	Jul	13	(Sat)	04:50	05:41	67	12:12	85N	18:42	293	19:34
2024	Jul	14	(Sun)	04:50	05:41	67	12:12	85N	18:42	293	19:33
2024	Jul	15	(Mon)	04:50	05:42	67	12:12	86N	18:42	293	19:33
2024	Jul	16	(Tue)	04:51	05:42	67	12:12	86N	18:42	292	19:33
2024	Jul	17	(Wed)	04:51	05:42	68	12:12	86N	18:42	292	19:33
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	18:41	292	19:32
2024	Jul	20	(Sat)	04:52	05:43	68	12:12	86N	18:41	292	19:32
2024	Jul	21	(Sun)	04:53	05:44	68	12:12	87N	18:41	291	19:32
2024	Jul	22	(Mon)	04:53	05:44	69	12:12	87N	18:41	291	19:31

2024	Jul	23	(Tue)	04:54	05:44	69	12:12	87N	18:40	291	19:31
2024	Jul	24	(Wed)	04:54	05:44	69	12:12	87N	18:40	291	19:31
2024	Jul	25	(Thu)	04:54	05:45	69	12:12	87N	18:40	291	19:30
2024	Jul	26	(Fri)	04:55	05:45	70	12:12	88N	18:39	290	19:30
2024	Jul	27	(Sat)	04:55	05:45	70	12:12	88N	18:39	290	19:29
2024	Jul	28	(Sun)	04:55	05:46	70	12:12	88N	18:39	290	19:29
2024	Jul	29	(Mon)	04:56	05:46	70	12:12	88N	18:38	290	19:29
2024	Jul	30	(Tue)	04:56	05:46	70	12:12	89N	18:38	289	19:28
2024	Jul	31	(Wed)	04:57	05:46	71	12:12	89N	18:38	289	19:28
2024	Aug	01	(Thu)	04:57	05:47	71	12:12	89N	18:37	289	19:27
2024	Aug	02	(Fri)	04:57	05:47	71	12:12	89N	18:37	289	19:27
2024	Aug	03	(Sat)	04:58	05:47	72	12:12	90N	18:37	288	19:26
2024	Aug	04	(Sun)	04:58	05:48	72	12:12	90N	18:36	288	19:26
2024	Aug	05	(Mon)	04:58	05:48	72	12:12	90N	18:36	288	19:25
2024	Aug	06	(Tue)	04:59	05:48	72	12:12	90N	18:35	287	19:24
2024	Aug	07	(Wed)	04:59	05:48	73	12:12	91S	18:35	287	19:24
2024	Aug	08	(Thu)	04:59	05:49	73	12:11	90S	18:34	287	19:23
2024	Aug	09	(Fri)	05:00	05:49	73	12:11	90S	18:34	287	19:23
2024	Aug	10	(Sat)	05:00	05:49	74	12:11	90S	18:33	286	19:22
2024	Aug	11	(Sun)	05:00	05:49	74	12:11	90S	18:33	286	19:21
2024	Aug	12	(Mon)	05:01	05:49	74	12:11	89S	18:32	286	19:21
2024	Aug	13	(Tue)	05:01	05:50	75	12:11	89S	18:31	285	19:20
2024	Aug	14	(Wed)	05:01	05:50	75	12:10	89S	18:31	285	19:19
2024	Aug	15	(Thu)	05:01	05:50	75	12:10	88S	18:30	285	19:19
2024	Aug	16	(Fri)	05:02	05:50	76	12:10	88S	18:30	284	19:18
2024	Aug	17	(Sat)	05:02	05:50	76	12:10	88S	18:29	284	19:17
2024	Aug	18	(Sun)	05:02	05:51	76	12:10	87S	18:28	284	19:17
2024	Aug	19	(Mon)	05:03	05:51	77	12:09	87S	18:28	283	19:16
2024	Aug	20	(Tue)	05:03	05:51	77	12:09	87S	18:27	283	19:15
2024	Aug	21	(Wed)	05:03	05:51	77	12:09	86S	18:26	283	19:14
2024	Aug	22	(Thu)	05:03	05:51	78	12:09	86S	18:26	282	19:14
2024	Aug	23	(Fri)	05:03	05:51	78	12:08	86S	18:25	282	19:13
2024	Aug	24	(Sat)	05:04	05:52	78	12:08	85S	18:24	282	19:12
2024	Aug	25	(Sun)	05:04	05:52	79	12:08	85S	18:24	281	19:11
2024	Aug	26	(Mon)	05:04	05:52	79	12:08	85S	18:23	281	19:11
2024	Aug	27	(Tue)	05:04	05:52	79	12:07	84S	18:22	280	19:10
2024	Aug	28	(Wed)	05:05	05:52	80	12:07	84S	18:22	280	19:09
2024	Aug	29	(Thu)	05:05	05:52	80	12:07	84S	18:21	280	19:08
2024	Aug	30	(Fri)	05:05	05:52	80	12:06	83S	18:20	279	19:07
2024	Aug	31	(Sat)	05:05	05:53	81	12:06	83S	18:19	279	19:07
2024	Sep	01	(Sun)	05:05	05:53	81	12:06	82S	18:19	279	19:06
2024	Sep	02	(Mon)	05:05	05:53	82	12:05	82S	18:18	278	19:05
2024	Sep	03	(Tue)	05:06	05:53	82	12:05	82S	18:17	278	19:04
2024	Sep	04	(Wed)	05:06	05:53	82	12:05	81S	18:16	277	19:03
2024	Sep	05	(Thu)	05:06	05:53	83	12:04	81S	18:15	277	19:03
2024	Sep	06	(Fri)	05:06	05:53	83	12:04	81S	18:15	277	19:02
2024	Sep	07	(Sat)	05:06	05:53	84	12:04	80S	18:14	276	19:01
2024	Sep	08	(Sun)	05:06	05:53	84	12:03	80S	18:13	276	19:00
2024	Sep	09	(Mon)	05:07	05:54	84	12:03	80S	18:12	275	18:59
2024	Sep	10	(Tue)	05:07	05:54	85	12:03	79S	18:12	275	18:58
2024	Sep	11	(Wed)	05:07	05:54	85	12:02	79S	18:11	275	18:58
2024	Sep	12	(Thu)	05:07	05:54	86	12:02	78S	18:10	274	18:57
2024	Sep	13	(Fri)	05:07	05:54	86	12:02	78S	18:09	274	18:56
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	18:08	273	18:54
2024	Sep	16	(Mon)	05:08	05:54	87	12:01	77S	18:07	273	18:53
2024	Sep	17	(Tue)	05:08	05:54	88	12:00	76S	18:06	272	18:53
2024	Sep	18	(Wed)	05:08	05:54	88	12:00	76S	18:05	272	18:52
2024	Sep	19	(Thu)	05:08	05:55	88	12:00	76S	18:04	271	18:51
2024	Sep	20	(Fri)	05:08	05:55	89	11:59	75S	18:03	271	18:50
2024	Sep	21	(Sat)	05:08	05:55	89	11:59	75S	18:03	271	18:49
2024	Sep	22	(Sun)	05:08	05:55	90	11:58	75S	18:02	270	18:48
2024	Sep	23	(Mon)	05:08	05:55	90	11:58	74S	18:01	270	18:48
2024	Sep	24	(Tue)	05:08	05:55	90	11:58	74S	18:00	269	18:47
2024	Sep	25	(Wed)	05:09	05:55	91	11:57	73S	17:59	269	18:46
2024	Sep	26	(Thu)	05:09	05:55	91	11:57	73S	17:59	269	18:45
2024	Sep	27	(Fri)	05:09	05:55	92	11:57	73S	17:58	268	18:44
2024	Sep	28	(Sat)	05:09	05:55	92	11:56	72S	17:57	268	18:44
2024	Sep	29	(Sun)	05:09	05:56	92	11:56	72S	17:56	267	18:43
2024	Sep	30	(Mon)	05:09	05:56	93	11:56	71S	17:55	267	18:42
2024	Oct	01	(Tue)	05:09	05:56	93	11:55	71S	17:55	267	18:41
2024	Oct	02	(Wed)	05:09	05:56	94	11:55	71S	17:54	266	18:40

2024	Oct	03	(Thu)	05:10	05:56	94	11:55	70S	17:53	266	18:40
2024	Oct	04	(Fri)	05:10	05:56	94	11:54	70S	17:52	265	18:39
2024	Oct	05	(Sat)	05:10	05:56	95	11:54	69S	17:52	265	18:38
2024	Oct	06	(Sun)	05:10	05:57	95	11:54	69S	17:51	265	18:38
2024	Oct	07	(Mon)	05:10	05:57	96	11:54	69S	17:50	264	18:37
2024	Oct	08	(Tue)	05:10	05:57	96	11:53	68S	17:49	264	18:36
2024	Oct	09	(Wed)	05:10	05:57	96	11:53	68S	17:49	263	18:35
2024	Oct	10	(Thu)	05:10	05:57	97	11:53	68S	17:48	263	18:35
2024	Oct	11	(Fri)	05:11	05:57	97	11:52	67S	17:47	263	18:34
2024	Oct	12	(Sat)	05:11	05:58	98	11:52	67S	17:47	262	18:33
2024	Oct	13	(Sun)	05:11	05:58	98	11:52	66S	17:46	262	18:33
2024	Oct	14	(Mon)	05:11	05:58	98	11:52	66S	17:45	261	18:32
2024	Oct	15	(Tue)	05:11	05:58	99	11:52	66S	17:45	261	18:32
2024	Oct	16	(Wed)	05:11	05:58	99	11:51	65S	17:44	261	18:31
2024	Oct	17	(Thu)	05:12	05:59	99	11:51	65S	17:43	260	18:30
2024	Oct	18	(Fri)	05:12	05:59	100	11:51	65S	17:43	260	18:30
2024	Oct	19	(Sat)	05:12	05:59	100	11:51	64S	17:42	260	18:29
2024	Oct	20	(Sun)	05:12	05:59	101	11:51	64S	17:41	259	18:29
2024	Oct	21	(Mon)	05:12	06:00	101	11:50	64S	17:41	259	18:28
2024	Oct	22	(Tue)	05:13	06:00	101	11:50	63S	17:40	258	18:28
2024	Oct	23	(Wed)	05:13	06:00	102	11:50	63S	17:40	258	18:27
2024	Oct	24	(Thu)	05:13	06:00	102	11:50	62S	17:39	258	18:27
2024	Oct	25	(Fri)	05:13	06:01	102	11:50	62S	17:39	257	18:26
2024	Oct	26	(Sat)	05:14	06:01	103	11:50	62S	17:38	257	18:26
2024	Oct	27	(Sun)	05:14	06:01	103	11:50	61S	17:38	257	18:25
2024	Oct	28	(Mon)	05:14	06:02	104	11:50	61S	17:37	256	18:25
2024	Oct	29	(Tue)	05:14	06:02	104	11:49	61S	17:37	256	18:24
2024	Oct	30	(Wed)	05:15	06:02	104	11:49	60S	17:36	256	18:24
2024	Oct	31	(Thu)	05:15	06:03	105	11:49	60S	17:36	255	18:24
2024	Nov	01	(Fri)	05:15	06:03	105	11:49	60S	17:35	255	18:23
2024	Nov	02	(Sat)	05:16	06:04	105	11:49	60S	17:35	255	18:23
2024	Nov	03	(Sun)	05:16	06:04	106	11:49	59S	17:35	254	18:23
2024	Nov	04	(Mon)	05:16	06:04	106	11:49	59S	17:34	254	18:22
2024	Nov	05	(Tue)	05:17	06:05	106	11:49	59S	17:34	254	18:22
2024	Nov	06	(Wed)	05:17	06:05	106	11:49	58S	17:34	253	18:22
2024	Nov	07	(Thu)	05:17	06:06	107	11:49	58S	17:33	253	18:22
2024	Nov	08	(Fri)	05:18	06:06	107	11:50	58S	17:33	253	18:21
2024	Nov	09	(Sat)	05:18	06:06	107	11:50	57S	17:33	252	18:21
2024	Nov	10	(Sun)	05:18	06:07	108	11:50	57S	17:32	252	18:21
2024	Nov	11	(Mon)	05:19	06:07	108	11:50	57S	17:32	252	18:21
2024	Nov	12	(Tue)	05:19	06:08	108	11:50	57S	17:32	252	18:21
2024	Nov	13	(Wed)	05:20	06:08	109	11:50	56S	17:32	251	18:20
2024	Nov	14	(Thu)	05:20	06:09	109	11:50	56S	17:32	251	18:20
2024	Nov	15	(Fri)	05:20	06:09	109	11:50	56S	17:31	251	18:20
2024	Nov	16	(Sat)	05:21	06:10	109	11:51	56S	17:31	251	18:20
2024	Nov	17	(Sun)	05:21	06:10	110	11:51	55S	17:31	250	18:20
2024	Nov	18	(Mon)	05:22	06:11	110	11:51	55S	17:31	250	18:20
2024	Nov	19	(Tue)	05:22	06:11	110	11:51	55S	17:31	250	18:20
2024	Nov	20	(Wed)	05:23	06:12	110	11:51	55S	17:31	250	18:20
2024	Nov	21	(Thu)	05:23	06:12	111	11:52	54S	17:31	249	18:20
2024	Nov	22	(Fri)	05:24	06:13	111	11:52	54S	17:31	249	18:20
2024	Nov	23	(Sat)	05:24	06:13	111	11:52	54S	17:31	249	18:20
2024	Nov	24	(Sun)	05:25	06:14	111	11:53	54S	17:31	249	18:20
2024	Nov	25	(Mon)	05:25	06:15	111	11:53	54S	17:31	248	18:21
2024	Nov	26	(Tue)	05:26	06:15	112	11:53	53S	17:31	248	18:21
2024	Nov	27	(Wed)	05:26	06:16	112	11:53	53S	17:31	248	18:21
2024	Nov	28	(Thu)	05:27	06:16	112	11:54	53S	17:31	248	18:21
2024	Nov	29	(Fri)	05:27	06:17	112	11:54	53S	17:31	248	18:21
2024	Nov	30	(Sat)	05:28	06:17	112	11:55	53S	17:32	248	18:21
2024	Dec	01	(Sun)	05:28	06:18	113	11:55	53S	17:32	247	18:22
2024	Dec	02	(Mon)	05:29	06:19	113	11:55	52S	17:32	247	18:22
2024	Dec	03	(Tue)	05:29	06:19	113	11:56	52S	17:32	247	18:22
2024	Dec	04	(Wed)	05:30	06:20	113	11:56	52S	17:32	247	18:22
2024	Dec	05	(Thu)	05:30	06:20	113	11:56	52S	17:33	247	18:23
2024	Dec	06	(Fri)	05:31	06:21	113	11:57	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)	05:32	06:22	113	11:58	52S	17:33	246	18:24
2024	Dec	09	(Mon)	05:32	06:23	114	11:58	52S	17:34	246	18:24
2024	Dec	10	(Tue)	05:33	06:23	114	11:59	51S	17:34	246	18:24
2024	Dec	11	(Wed)	05:34	06:24	114	11:59	51S	17:34	246	18:25
2024	Dec	12	(Thu)	05:34	06:24	114	12:00	51S	17:35	246	18:25
2024	Dec	13	(Fri)	05:35	06:25	114	12:00	51S	17:35	246	18:26

2024	Dec	14	(Sat)	05:35	06:25	114	12:01	51S	17:36	246	18:26
2024	Dec	15	(Sun)	05:36	06:26	114	12:01	51S	17:36	246	18:26
2024	Dec	16	(Mon)	05:36	06:27	114	12:01	51S	17:36	246	18:27
2024	Dec	17	(Tue)	05:37	06:27	114	12:02	51S	17:37	246	18:27
2024	Dec	18	(Wed)	05:37	06:28	114	12:02	51S	17:37	246	18:28
2024	Dec	19	(Thu)	05:38	06:28	114	12:03	51S	17:38	246	18:28
2024	Dec	20	(Fri)	05:38	06:29	114	12:03	51S	17:38	246	18:29
2024	Dec	21	(Sat)	05:39	06:29	114	12:04	51S	17:39	246	18:29
2024	Dec	22	(Sun)	05:39	06:30	114	12:04	51S	17:39	246	18:30
2024	Dec	23	(Mon)	05:40	06:30	114	12:05	51S	17:40	246	18:30
2024	Dec	24	(Tue)	05:40	06:31	114	12:05	51S	17:40	246	18:31
2024	Dec	25	(Wed)	05:41	06:31	114	12:06	51S	17:41	246	18:31
2024	Dec	26	(Thu)	05:41	06:32	114	12:06	51S	17:41	246	18:32
2024	Dec	27	(Fri)	05:42	06:32	114	12:07	51S	17:42	246	18:32
2024	Dec	28	(Sat)	05:42	06:32	114	12:07	51S	17:42	246	18:33
2024	Dec	29	(Sun)	05:42	06:33	114	12:08	51S	17:43	246	18:33
2024	Dec	30	(Mon)	05:43	06:33	114	12:08	51S	17:44	246	18:34
2024	Dec	31	(Tue)	05:43	06:34	114	12:09	51S	17:44	246	18:34

Sun

Kalasin

Location: E103°33'03.6", N16°18'35.9", 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)	06:10	06:34	114	12:09	51S	17:44	246			18:08	
2024	Jan	02	(Tue)	06:11	06:34	114	12:09	51S	17:45	246			18:08	
2024	Jan	03	(Wed)	06:11	06:34	114	12:10	52S	17:46	246			18:09	
2024	Jan	04	(Thu)	06:11	06:35	114	12:10	52S	17:46	247			18:09	
2024	Jan	05	(Fri)	06:12	06:35	113	12:11	52S	17:47	247			18:10	
2024	Jan	06	(Sat)	06:12	06:35	113	12:11	52S	17:47	247			18:11	
2024	Jan	07	(Sun)	06:12	06:36	113	12:12	52S	17:48	247			18:11	
2024	Jan	08	(Mon)	06:13	06:36	113	12:12	52S	17:49	247			18:12	
2024	Jan	09	(Tue)	06:13	06:36	113	12:13	52S	17:49	247			18:12	
2024	Jan	10	(Wed)	06:13	06:36	113	12:13	52S	17:50	247			18:13	
2024	Jan	11	(Thu)	06:13	06:37	113	12:13	53S	17:50	247			18:14	
2024	Jan	12	(Fri)	06:14	06:37	112	12:14	53S	17:51	248			18:14	
2024	Jan	13	(Sat)	06:14	06:37	112	12:14	53S	17:52	248			18:15	
2024	Jan	14	(Sun)	06:14	06:37	112	12:15	53S	17:52	248			18:15	
2024	Jan	15	(Mon)	06:14	06:37	112	12:15	53S	17:53	248			18:16	
2024	Jan	16	(Tue)	06:14	06:37	112	12:15	53S	17:53	248			18:16	
2024	Jan	17	(Wed)	06:14	06:37	112	12:16	54S	17:54	249			18:17	
2024	Jan	18	(Thu)	06:15	06:38	111	12:16	54S	17:55	249			18:17	
2024	Jan	19	(Fri)	06:15	06:38	111	12:16	54S	17:55	249			18:18	
2024	Jan	20	(Sat)	06:15	06:38	111	12:17	54S	17:56	249			18:19	
2024	Jan	21	(Sun)	06:15	06:38	111	12:17	54S	17:56	249			18:19	
2024	Jan	22	(Mon)	06:15	06:38	110	12:17	55S	17:57	250			18:20	
2024	Jan	23	(Tue)	06:15	06:38	110	12:17	55S	17:57	250			18:20	
2024	Jan	24	(Wed)	06:15	06:38	110	12:18	55S	17:58	250			18:21	
2024	Jan	25	(Thu)	06:15	06:37	110	12:18	55S	17:59	250			18:21	
2024	Jan	26	(Fri)	06:15	06:37	109	12:18	56S	17:59	251			18:22	
2024	Jan	27	(Sat)	06:15	06:37	109	12:18	56S	18:00	251			18:22	
2024	Jan	28	(Sun)	06:15	06:37	109	12:19	56S	18:00	251			18:23	
2024	Jan	29	(Mon)	06:14	06:37	109	12:19	56S	18:01	251			18:23	
2024	Jan	30	(Tue)	06:14	06:37	108	12:19	57S	18:01	252			18:24	
2024	Jan	31	(Wed)	06:14	06:37	108	12:19	57S	18:02	252			18:24	
2024	Feb	01	(Thu)	06:14	06:36	108	12:19	57S	18:02	252			18:25	
2024	Feb	02	(Fri)	06:14	06:36	108	12:19	57S	18:03	253			18:25	
2024	Feb	03	(Sat)	06:14	06:36	107	12:19	58S	18:03	253			18:26	
2024	Feb	04	(Sun)	06:13	06:36	107	12:20	58S	18:04	253			18:26	
2024	Feb	05	(Mon)	06:13	06:35	107	12:20	58S	18:04	254			18:26	
2024	Feb	06	(Tue)	06:13	06:35	106	12:20	59S	18:05	254			18:27	
2024	Feb	07	(Wed)	06:13	06:35	106	12:20	59S	18:05	254			18:27	
2024	Feb	08	(Thu)	06:12	06:35	106	12:20	59S	18:05	255			18:28	
2024	Feb	09	(Fri)	06:12	06:34	105	12:20	60S	18:06	255			18:28	
2024	Feb	10	(Sat)	06:12	06:34	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)	06:11	06:33	104	12:20	61S	18:07	256	18:29
2024	Feb	13	(Tue)	06:11	06:33	104	12:20	61S	18:08	256	18:30
2024	Feb	14	(Wed)	06:10	06:32	104	12:20	61S	18:08	257	18:30
2024	Feb	15	(Thu)	06:10	06:32	103	12:20	62S	18:08	257	18:30
2024	Feb	16	(Fri)	06:09	06:31	103	12:20	62S	18:09	257	18:31
2024	Feb	17	(Sat)	06:09	06:31	103	12:20	62S	18:09	258	18:31
2024	Feb	18	(Sun)	06:08	06:30	102	12:20	63S	18:09	258	18:31
2024	Feb	19	(Mon)	06:08	06:30	102	12:20	63S	18:10	258	18:32
2024	Feb	20	(Tue)	06:07	06:29	101	12:20	63S	18:10	259	18:32
2024	Feb	21	(Wed)	06:07	06:29	101	12:19	64S	18:10	259	18:32
2024	Feb	22	(Thu)	06:06	06:28	101	12:19	64S	18:11	260	18:33
2024	Feb	23	(Fri)	06:06	06:28	100	12:19	64S	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)	06:05	06:27	100	12:19	65S	18:12	261	18:33
2024	Feb	26	(Mon)	06:04	06:26	99	12:19	65S	18:12	261	18:34
2024	Feb	27	(Tue)	06:04	06:25	99	12:19	66S	18:12	261	18:34
2024	Feb	28	(Wed)	06:03	06:25	98	12:18	66S	18:12	262	18:34
2024	Feb	29	(Thu)	06:02	06:24	98	12:18	67S	18:13	262	18:34
2024	Mar	01	(Fri)	06:02	06:23	98	12:18	67S	18:13	263	18:35
2024	Mar	02	(Sat)	06:01	06:23	97	12:18	67S	18:13	263	18:35
2024	Mar	03	(Sun)	06:00	06:22	97	12:18	68S	18:13	263	18:35
2024	Mar	04	(Mon)	06:00	06:21	96	12:17	68S	18:14	264	18:35
2024	Mar	05	(Tue)	05:59	06:21	96	12:17	69S	18:14	264	18:35
2024	Mar	06	(Wed)	05:58	06:20	96	12:17	69S	18:14	265	18:36
2024	Mar	07	(Thu)	05:58	06:19	95	12:17	69S	18:14	265	18:36
2024	Mar	08	(Fri)	05:57	06:19	95	12:16	70S	18:15	265	18:36
2024	Mar	09	(Sat)	05:56	06:18	94	12:16	70S	18:15	266	18:36
2024	Mar	10	(Sun)	05:56	06:17	94	12:16	70S	18:15	266	18:36
2024	Mar	11	(Mon)	05:55	06:17	94	12:16	71S	18:15	267	18:37
2024	Mar	12	(Tue)	05:54	06:16	93	12:15	71S	18:15	267	18:37
2024	Mar	13	(Wed)	05:54	06:15	93	12:15	72S	18:16	268	18:37
2024	Mar	14	(Thu)	05:53	06:14	92	12:15	72S	18:16	268	18:37
2024	Mar	15	(Fri)	05:52	06:14	92	12:15	72S	18:16	268	18:37
2024	Mar	16	(Sat)	05:51	06:13	91	12:14	73S	18:16	269	18:38
2024	Mar	17	(Sun)	05:51	06:12	91	12:14	73S	18:16	269	18:38
2024	Mar	18	(Mon)	05:50	06:11	91	12:14	74S	18:16	270	18:38
2024	Mar	19	(Tue)	05:49	06:11	90	12:13	74S	18:17	270	18:38
2024	Mar	20	(Wed)	05:48	06:10	90	12:13	74S	18:17	270	18:38
2024	Mar	21	(Thu)	05:48	06:09	89	12:13	75S	18:17	271	18:38
2024	Mar	22	(Fri)	05:47	06:08	89	12:13	75S	18:17	271	18:39
2024	Mar	23	(Sat)	05:46	06:08	89	12:12	76S	18:17	272	18:39
2024	Mar	24	(Sun)	05:45	06:07	88	12:12	76S	18:17	272	18:39
2024	Mar	25	(Mon)	05:45	06:06	88	12:12	76S	18:18	272	18:39
2024	Mar	26	(Tue)	05:44	06:05	87	12:11	77S	18:18	273	18:39
2024	Mar	27	(Wed)	05:43	06:05	87	12:11	77S	18:18	273	18:39
2024	Mar	28	(Thu)	05:42	06:04	87	12:11	78S	18:18	274	18:40
2024	Mar	29	(Fri)	05:41	06:03	86	12:10	78S	18:18	274	18:40
2024	Mar	30	(Sat)	05:41	06:02	86	12:10	78S	18:18	274	18:40
2024	Mar	31	(Sun)	05:40	06:02	85	12:10	79S	18:18	275	18:40
2024	Apr	01	(Mon)	05:39	06:01	85	12:10	79S	18:19	275	18:40
2024	Apr	02	(Tue)	05:38	06:00	85	12:09	80S	18:19	276	18:40
2024	Apr	03	(Wed)	05:38	05:59	84	12:09	80S	18:19	276	18:41
2024	Apr	04	(Thu)	05:37	05:59	84	12:09	80S	18:19	276	18:41
2024	Apr	05	(Fri)	05:36	05:58	83	12:08	81S	18:19	277	18:41
2024	Apr	06	(Sat)	05:35	05:57	83	12:08	81S	18:19	277	18:41
2024	Apr	07	(Sun)	05:35	05:56	83	12:08	81S	18:20	278	18:41
2024	Apr	08	(Mon)	05:34	05:56	82	12:08	82S	18:20	278	18:42
2024	Apr	09	(Tue)	05:33	05:55	82	12:07	82S	18:20	278	18:42
2024	Apr	10	(Wed)	05:32	05:54	81	12:07	83S	18:20	279	18:42
2024	Apr	11	(Thu)	05:32	05:53	81	12:07	83S	18:20	279	18:42
2024	Apr	12	(Fri)	05:31	05:53	81	12:07	83S	18:21	280	18:42
2024	Apr	13	(Sat)	05:30	05:52	80	12:06	84S	18:21	280	18:43
2024	Apr	14	(Sun)	05:29	05:51	80	12:06	84S	18:21	280	18:43
2024	Apr	15	(Mon)	05:29	05:51	79	12:06	84S	18:21	281	18:43
2024	Apr	16	(Tue)	05:28	05:50	79	12:06	85S	18:21	281	18:43
2024	Apr	17	(Wed)	05:27	05:49	79	12:05	85S	18:22	281	18:44
2024	Apr	18	(Thu)	05:27	05:49	78	12:05	85S	18:22	282	18:44
2024	Apr	19	(Fri)	05:26	05:48	78	12:05	86S	18:22	282	18:44
2024	Apr	20	(Sat)	05:25	05:47	78	12:05	86S	18:22	283	18:44
2024	Apr	21	(Sun)	05:25	05:47	77	12:04	86S	18:22	283	18:45
2024	Apr	22	(Mon)	05:24	05:46	77	12:04	87S	18:23	283	18:45

2024	Apr	23	(Tue)	05:23	05:46	77	12:04	87S	18:23	284	18:45
2024	Apr	24	(Wed)	05:23	05:45	76	12:04	87S	18:23	284	18:45
2024	Apr	25	(Thu)	05:22	05:44	76	12:04	88S	18:23	284	18:46
2024	Apr	26	(Fri)	05:21	05:44	76	12:04	88S	18:24	285	18:46
2024	Apr	27	(Sat)	05:21	05:43	75	12:03	88S	18:24	285	18:46
2024	Apr	28	(Sun)	05:20	05:43	75	12:03	89S	18:24	285	18:46
2024	Apr	29	(Mon)	05:20	05:42	75	12:03	89S	18:24	286	18:47
2024	Apr	30	(Tue)	05:19	05:42	74	12:03	89S	18:25	286	18:47
2024	May	01	(Wed)	05:19	05:41	74	12:03	90S	18:25	286	18:47
2024	May	02	(Thu)	05:18	05:41	74	12:03	90S	18:25	287	18:48
2024	May	03	(Fri)	05:18	05:40	73	12:03	90S	18:25	287	18:48
2024	May	04	(Sat)	05:17	05:40	73	12:03	91S	18:26	287	18:48
2024	May	05	(Sun)	05:17	05:39	73	12:02	91N	18:26	287	18:49
2024	May	06	(Mon)	05:16	05:39	72	12:02	90N	18:26	288	18:49
2024	May	07	(Tue)	05:16	05:38	72	12:02	90N	18:27	288	18:49
2024	May	08	(Wed)	05:15	05:38	72	12:02	90N	18:27	288	18:50
2024	May	09	(Thu)	05:15	05:38	72	12:02	90N	18:27	289	18:50
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	18:28	289	18:51
2024	May	12	(Sun)	05:13	05:36	71	12:02	89N	18:28	289	18:51
2024	May	13	(Mon)	05:13	05:36	70	12:02	89N	18:28	290	18:51
2024	May	14	(Tue)	05:13	05:36	70	12:02	88N	18:29	290	18:52
2024	May	15	(Wed)	05:12	05:35	70	12:02	88N	18:29	290	18:52
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	88N	18:30	291	18:53
2024	May	18	(Sat)	05:11	05:35	69	12:02	87N	18:30	291	18:53
2024	May	19	(Sun)	05:11	05:34	69	12:02	87N	18:30	291	18:54
2024	May	20	(Mon)	05:11	05:34	69	12:02	87N	18:31	291	18:54
2024	May	21	(Tue)	05:11	05:34	69	12:02	87N	18:31	291	18:54
2024	May	22	(Wed)	05:10	05:34	68	12:02	87N	18:31	292	18:55
2024	May	23	(Thu)	05:10	05:34	68	12:03	86N	18:32	292	18:55
2024	May	24	(Fri)	05:10	05:33	68	12:03	86N	18:32	292	18:55
2024	May	25	(Sat)	05:10	05:33	68	12:03	86N	18:32	292	18:56
2024	May	26	(Sun)	05:10	05:33	68	12:03	86N	18:33	292	18:56
2024	May	27	(Mon)	05:09	05:33	67	12:03	86N	18:33	293	18:57
2024	May	28	(Tue)	05:09	05:33	67	12:03	85N	18:33	293	18:57
2024	May	29	(Wed)	05:09	05:33	67	12:03	85N	18:34	293	18:57
2024	May	30	(Thu)	05:09	05:33	67	12:03	85N	18:34	293	18:58
2024	May	31	(Fri)	05:09	05:33	67	12:04	85N	18:35	293	18:58
2024	Jun	01	(Sat)	05:09	05:33	67	12:04	85N	18:35	293	18:58
2024	Jun	02	(Sun)	05:09	05:33	67	12:04	85N	18:35	294	18:59
2024	Jun	03	(Mon)	05:09	05:33	66	12:04	85N	18:36	294	18:59
2024	Jun	04	(Tue)	05:09	05:33	66	12:04	85N	18:36	294	19:00
2024	Jun	05	(Wed)	05:09	05:33	66	12:04	84N	18:36	294	19:00
2024	Jun	06	(Thu)	05:09	05:33	66	12:05	84N	18:37	294	19:00
2024	Jun	07	(Fri)	05:09	05:33	66	12:05	84N	18:37	294	19:01
2024	Jun	08	(Sat)	05:09	05:33	66	12:05	84N	18:37	294	19:01
2024	Jun	09	(Sun)	05:09	05:33	66	12:05	84N	18:37	294	19:01
2024	Jun	10	(Mon)	05:09	05:33	66	12:05	84N	18:38	294	19:02
2024	Jun	11	(Tue)	05:09	05:33	66	12:06	84N	18:38	294	19:02
2024	Jun	12	(Wed)	05:09	05:33	66	12:06	84N	18:38	294	19:02
2024	Jun	13	(Thu)	05:09	05:33	65	12:06	84N	18:39	295	19:03
2024	Jun	14	(Fri)	05:10	05:33	65	12:06	84N	18:39	295	19:03
2024	Jun	15	(Sat)	05:10	05:34	65	12:06	84N	18:39	295	19:03
2024	Jun	16	(Sun)	05:10	05:34	65	12:07	84N	18:39	295	19:03
2024	Jun	17	(Mon)	05:10	05:34	65	12:07	84N	18:40	295	19:04
2024	Jun	18	(Tue)	05:10	05:34	65	12:07	84N	18:40	295	19:04
2024	Jun	19	(Wed)	05:10	05:34	65	12:07	84N	18:40	295	19:04
2024	Jun	20	(Thu)	05:11	05:34	65	12:07	84N	18:40	295	19:04
2024	Jun	21	(Fri)	05:11	05:35	65	12:08	84N	18:41	295	19:05
2024	Jun	22	(Sat)	05:11	05:35	65	12:08	84N	18:41	295	19:05
2024	Jun	23	(Sun)	05:11	05:35	65	12:08	84N	18:41	295	19:05
2024	Jun	24	(Mon)	05:11	05:35	65	12:08	84N	18:41	295	19:05
2024	Jun	25	(Tue)	05:12	05:36	65	12:09	84N	18:41	295	19:05
2024	Jun	26	(Wed)	05:12	05:36	65	12:09	84N	18:42	295	19:05
2024	Jun	27	(Thu)	05:12	05:36	65	12:09	84N	18:42	295	19:06
2024	Jun	28	(Fri)	05:13	05:36	65	12:09	84N	18:42	295	19:06
2024	Jun	29	(Sat)	05:13	05:37	65	12:09	84N	18:42	294	19:06
2024	Jun	30	(Sun)	05:13	05:37	66	12:10	84N	18:42	294	19:06
2024	Jul	01	(Mon)	05:13	05:37	66	12:10	84N	18:42	294	19:06
2024	Jul	02	(Tue)	05:14	05:38	66	12:10	84N	18:42	294	19:06
2024	Jul	03	(Wed)	05:14	05:38	66	12:10	84N	18:42	294	19:06

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

2024	Sep	14	(Sat)	05:32	05:54	86	12:01	78S	18:08	273	18:30
2024	Sep	15	(Sun)	05:33	05:54	87	12:01	77S	18:08	273	18:29
2024	Sep	16	(Mon)	05:33	05:54	87	12:01	77S	18:07	273	18:28
2024	Sep	17	(Tue)	05:33	05:54	88	12:00	76S	18:06	272	18:27
2024	Sep	18	(Wed)	05:33	05:54	88	12:00	76S	18:05	272	18:27
2024	Sep	19	(Thu)	05:33	05:55	88	12:00	76S	18:04	271	18:26
2024	Sep	20	(Fri)	05:33	05:55	89	11:59	75S	18:03	271	18:25
2024	Sep	21	(Sat)	05:33	05:55	89	11:59	75S	18:03	271	18:24
2024	Sep	22	(Sun)	05:33	05:55	90	11:58	75S	18:02	270	18:23
2024	Sep	23	(Mon)	05:33	05:55	90	11:58	74S	18:01	270	18:23
2024	Sep	24	(Tue)	05:33	05:55	90	11:58	74S	18:00	269	18:22
2024	Sep	25	(Wed)	05:34	05:55	91	11:57	73S	17:59	269	18:21
2024	Sep	26	(Thu)	05:34	05:55	91	11:57	73S	17:59	269	18:20
2024	Sep	27	(Fri)	05:34	05:55	92	11:57	73S	17:58	268	18:19
2024	Sep	28	(Sat)	05:34	05:55	92	11:56	72S	17:57	268	18:19
2024	Sep	29	(Sun)	05:34	05:56	92	11:56	72S	17:56	267	18:18
2024	Sep	30	(Mon)	05:34	05:56	93	11:56	71S	17:55	267	18:17
2024	Oct	01	(Tue)	05:34	05:56	93	11:55	71S	17:55	267	18:16
2024	Oct	02	(Wed)	05:34	05:56	94	11:55	71S	17:54	266	18:15
2024	Oct	03	(Thu)	05:35	05:56	94	11:55	70S	17:53	266	18:15
2024	Oct	04	(Fri)	05:35	05:56	94	11:54	70S	17:52	265	18:14
2024	Oct	05	(Sat)	05:35	05:56	95	11:54	69S	17:52	265	18:13
2024	Oct	06	(Sun)	05:35	05:57	95	11:54	69S	17:51	265	18:13
2024	Oct	07	(Mon)	05:35	05:57	96	11:54	69S	17:50	264	18:12
2024	Oct	08	(Tue)	05:35	05:57	96	11:53	68S	17:49	264	18:11
2024	Oct	09	(Wed)	05:35	05:57	96	11:53	68S	17:49	263	18:10
2024	Oct	10	(Thu)	05:36	05:57	97	11:53	68S	17:48	263	18:10
2024	Oct	11	(Fri)	05:36	05:57	97	11:52	67S	17:47	263	18:09
2024	Oct	12	(Sat)	05:36	05:58	98	11:52	67S	17:47	262	18:08
2024	Oct	13	(Sun)	05:36	05:58	98	11:52	66S	17:46	262	18:08
2024	Oct	14	(Mon)	05:36	05:58	98	11:52	66S	17:45	261	18:07
2024	Oct	15	(Tue)	05:36	05:58	99	11:52	66S	17:45	261	18:06
2024	Oct	16	(Wed)	05:37	05:58	99	11:51	65S	17:44	261	18:06
2024	Oct	17	(Thu)	05:37	05:59	99	11:51	65S	17:43	260	18:05
2024	Oct	18	(Fri)	05:37	05:59	100	11:51	65S	17:43	260	18:05
2024	Oct	19	(Sat)	05:37	05:59	100	11:51	64S	17:42	260	18:04
2024	Oct	20	(Sun)	05:38	05:59	101	11:51	64S	17:41	259	18:03
2024	Oct	21	(Mon)	05:38	06:00	101	11:50	64S	17:41	259	18:03
2024	Oct	22	(Tue)	05:38	06:00	101	11:50	63S	17:40	258	18:02
2024	Oct	23	(Wed)	05:38	06:00	102	11:50	63S	17:40	258	18:02
2024	Oct	24	(Thu)	05:39	06:00	102	11:50	62S	17:39	258	18:01
2024	Oct	25	(Fri)	05:39	06:01	102	11:50	62S	17:39	257	18:01
2024	Oct	26	(Sat)	05:39	06:01	103	11:50	62S	17:38	257	18:00
2024	Oct	27	(Sun)	05:39	06:01	103	11:50	61S	17:38	257	18:00
2024	Oct	28	(Mon)	05:40	06:02	104	11:50	61S	17:37	256	17:59
2024	Oct	29	(Tue)	05:40	06:02	104	11:49	61S	17:37	256	17:59
2024	Oct	30	(Wed)	05:40	06:02	104	11:49	60S	17:36	256	17:58
2024	Oct	31	(Thu)	05:41	06:03	105	11:49	60S	17:36	255	17:58
2024	Nov	01	(Fri)	05:41	06:03	105	11:49	60S	17:35	255	17:58
2024	Nov	02	(Sat)	05:41	06:04	105	11:49	60S	17:35	255	17:57
2024	Nov	03	(Sun)	05:42	06:04	106	11:49	59S	17:35	254	17:57
2024	Nov	04	(Mon)	05:42	06:04	106	11:49	59S	17:34	254	17:57
2024	Nov	05	(Tue)	05:42	06:05	106	11:49	59S	17:34	254	17:56
2024	Nov	06	(Wed)	05:43	06:05	106	11:49	58S	17:34	253	17:56
2024	Nov	07	(Thu)	05:43	06:06	107	11:49	58S	17:33	253	17:56
2024	Nov	08	(Fri)	05:44	06:06	107	11:50	58S	17:33	253	17:55
2024	Nov	09	(Sat)	05:44	06:06	107	11:50	57S	17:33	252	17:55
2024	Nov	10	(Sun)	05:44	06:07	108	11:50	57S	17:32	252	17:55
2024	Nov	11	(Mon)	05:45	06:07	108	11:50	57S	17:32	252	17:55
2024	Nov	12	(Tue)	05:45	06:08	108	11:50	57S	17:32	252	17:55
2024	Nov	13	(Wed)	05:46	06:08	109	11:50	56S	17:32	251	17:54
2024	Nov	14	(Thu)	05:46	06:09	109	11:50	56S	17:32	251	17:54
2024	Nov	15	(Fri)	05:47	06:09	109	11:50	56S	17:31	251	17:54
2024	Nov	16	(Sat)	05:47	06:10	109	11:51	56S	17:31	251	17:54
2024	Nov	17	(Sun)	05:47	06:10	110	11:51	55S	17:31	250	17:54
2024	Nov	18	(Mon)	05:48	06:11	110	11:51	55S	17:31	250	17:54
2024	Nov	19	(Tue)	05:48	06:11	110	11:51	55S	17:31	250	17:54
2024	Nov	20	(Wed)	05:49	06:12	110	11:51	55S	17:31	250	17:54
2024	Nov	21	(Thu)	05:49	06:12	111	11:52	54S	17:31	249	17:54
2024	Nov	22	(Fri)	05:50	06:13	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)	05:51	06:14	111	11:53	54S	17:31	249	17:54

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

Moon

Kalasin

Location: E103°33'03.6", N16°18'35.9", 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)	22:16	80		03:57	88S		10:21	282	
2024 Jan 02 (Tue)	23:02	86		04:37	82S		10:54	277	
2024 Jan 03 (Wed)	23:48	92		05:16	76S		11:26	271	
2024 Jan 04 (Thu)				05:55	71S		11:59	265	
2024 Jan 05 (Fri)	00:35	98		06:36	65S		12:33	259	
2024 Jan 06 (Sat)	01:24	104		07:18	59S		13:09	253	
2024 Jan 07 (Sun)	02:17	110		08:05	54S		13:51	248	
2024 Jan 08 (Mon)	03:14	114		08:57	50S		14:38	244	
2024 Jan 09 (Tue)	04:15	118		09:54	47S		15:32	241	
2024 Jan 10 (Wed)	05:18	119		10:55	46S		16:33	240	
2024 Jan 11 (Thu)	06:21	119		11:59	46S		17:39	242	
2024 Jan 12 (Fri)	07:21	117		13:02	49S		18:46	245	
2024 Jan 13 (Sat)	08:15	112		14:02	54S		19:52	251	
2024 Jan 14 (Sun)	09:03	106		14:57	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		22:51	272	
2024 Jan 17 (Wed)	11:08	85		17:25	81S		23:47	279	
2024 Jan 18 (Thu)	11:48	78		18:13	87S				
2024 Jan 19 (Fri)	12:29	72		19:02	88N		00:43	285	
2024 Jan 20 (Sat)	13:13	67		19:54	84N		01:40	291	
2024 Jan 21 (Sun)	14:01	63		20:48	80N		02:38	295	
2024 Jan 22 (Mon)	14:53	61		21:43	79N		03:36	298	
2024 Jan 23 (Tue)	15:48	61		22:38	79N		04:34	299	

2024	Jan	24	(Wed)	16:43	62	23:32	80N	05:28	299
2024	Jan	25	(Thu)	17:38	64			06:18	297
2024	Jan	26	(Fri)	18:32	68	00:22	83N	07:03	294
2024	Jan	27	(Sat)	19:22	73	01:09	87N	07:43	289
2024	Jan	28	(Sun)	20:11	78	01:53	89S	08:20	284
2024	Jan	29	(Mon)	20:57	84	02:34	84S	08:54	279
2024	Jan	30	(Tue)	21:43	90	03:13	78S	09:26	273
2024	Jan	31	(Wed)	22:29	96	03:52	73S	09:58	267
2024	Feb	01	(Thu)	23:16	102	04:31	67S	10:31	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)	01:00	112	06:44	51S	12:27	246
2024	Feb	05	(Mon)	01:57	116	07:37	48S	13:16	242
2024	Feb	06	(Tue)	02:58	119	08:36	46S	14:12	240
2024	Feb	07	(Wed)	04:00	120	09:37	46S	15:15	241
2024	Feb	08	(Thu)	05:01	118	10:41	47S	16:22	243
2024	Feb	09	(Fri)	05:59	115	11:42	51S	17:29	248
2024	Feb	10	(Sat)	06:51	109	12:41	57S	18:35	254
2024	Feb	11	(Sun)	07:38	103	13:36	64S	19:38	261
2024	Feb	12	(Mon)	08:22	95	14:28	71S	20:38	269
2024	Feb	13	(Tue)	09:03	88	15:18	78S	21:37	276
2024	Feb	14	(Wed)	09:44	80	16:07	85S	22:35	283
2024	Feb	15	(Thu)	10:26	74	16:58	90N	23:33	289
2024	Feb	16	(Fri)	11:11	68	17:50	85N		
2024	Feb	17	(Sat)	11:58	64	18:44	81N	00:32	294
2024	Feb	18	(Sun)	12:49	61	19:39	79N	01:32	298
2024	Feb	19	(Mon)	13:43	60	20:34	78N	02:29	299
2024	Feb	20	(Tue)	14:38	61	21:28	80N	03:24	299
2024	Feb	21	(Wed)	15:33	63	22:19	82N	04:15	298
2024	Feb	22	(Thu)	16:27	67	23:06	86N	05:01	295
2024	Feb	23	(Fri)	17:18	71	23:51	90N	05:43	291
2024	Feb	24	(Sat)	18:07	77			06:20	286
2024	Feb	25	(Sun)	18:54	82	00:32	86S	06:55	281
2024	Feb	26	(Mon)	19:40	88	01:12	80S	07:27	275
2024	Feb	27	(Tue)	20:26	94	01:51	74S	07:59	269
2024	Feb	28	(Wed)	21:12	100	02:30	69S	08:31	263
2024	Feb	29	(Thu)	22:01	106	03:10	63S	09:05	257
2024	Mar	01	(Fri)	22:52	111	03:53	58S	09:41	252
2024	Mar	02	(Sat)	23:47	115	04:38	53S	10:22	247
2024	Mar	03	(Sun)			05:28	49S	11:07	243
2024	Mar	04	(Mon)	00:45	118	06:22	46S	11:59	241
2024	Mar	05	(Tue)	01:44	120	07:21	45S	12:57	240
2024	Mar	06	(Wed)	02:44	119	08:22	46S	14:00	242
2024	Mar	07	(Thu)	03:42	117	09:23	49S	15:06	245
2024	Mar	08	(Fri)	04:35	112	10:22	54S	16:11	250
2024	Mar	09	(Sat)	05:24	106	11:18	60S	17:15	257
2024	Mar	10	(Sun)	06:10	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	13:55	82S	20:18	280
2024	Mar	13	(Wed)	08:18	77	14:46	89S	21:19	287
2024	Mar	14	(Thu)	09:03	70	15:40	87N	22:20	293
2024	Mar	15	(Fri)	09:51	65	16:35	82N	23:22	297
2024	Mar	16	(Sat)	10:42	62	17:31	79N		
2024	Mar	17	(Sun)	11:37	60	18:28	78N	00:22	299
2024	Mar	18	(Mon)	12:33	60	19:23	79N	01:19	300
2024	Mar	19	(Tue)	13:28	62	20:15	81N	02:12	299
2024	Mar	20	(Wed)	14:22	65	21:04	84N	03:00	296
2024	Mar	21	(Thu)	15:14	70	21:49	89N	03:43	292
2024	Mar	22	(Fri)	16:03	75	22:32	88S	04:21	288
2024	Mar	23	(Sat)	16:51	80	23:12	82S	04:56	282
2024	Mar	24	(Sun)	17:37	86	23:51	76S	05:29	277
2024	Mar	25	(Mon)	18:23	92			06:01	271
2024	Mar	26	(Tue)	19:10	98	00:30	70S	06:33	265
2024	Mar	27	(Wed)	19:58	104	01:10	65S	07:06	259
2024	Mar	28	(Thu)	20:48	109	01:51	59S	07:42	253
2024	Mar	29	(Fri)	21:42	114	02:36	54S	08:21	248
2024	Mar	30	(Sat)	22:38	118	03:24	50S	09:04	244
2024	Mar	31	(Sun)	23:36	120	04:16	47S	09:53	241
2024	Apr	01	(Mon)			05:12	45S	10:48	240
2024	Apr	02	(Tue)	00:34	120	06:11	45S	11:47	241
2024	Apr	03	(Wed)	01:31	118	07:10	47S	12:50	243
2024	Apr	04	(Thu)	02:24	115	08:07	51S	13:53	248

2024	Apr	05	(Fri)	03:13	109	09:03	57S	14:56	253
2024	Apr	06	(Sat)	03:59	103	09:56	63S	15:57	260
2024	Apr	07	(Sun)	04:42	96	10:48	70S	16:57	268
2024	Apr	08	(Mon)	05:24	88	11:39	78S	17:58	276
2024	Apr	09	(Tue)	06:07	80	12:30	85S	18:59	283
2024	Apr	10	(Wed)	06:51	73	13:24	89N	20:01	290
2024	Apr	11	(Thu)	07:39	68	14:20	84N	21:04	295
2024	Apr	12	(Fri)	08:30	63	15:18	80N	22:08	298
2024	Apr	13	(Sat)	09:25	61	16:16	79N	23:08	300
2024	Apr	14	(Sun)	10:22	60	17:14	78N		
2024	Apr	15	(Mon)	11:20	61	18:09	80N	00:05	299
2024	Apr	16	(Tue)	12:16	64	19:00	83N	00:56	297
2024	Apr	17	(Wed)	13:09	68	19:46	87N	01:41	294
2024	Apr	18	(Thu)	13:59	73	20:30	90S	02:21	289
2024	Apr	19	(Fri)	14:47	78	21:11	84S	02:57	284
2024	Apr	20	(Sat)	15:34	84	21:50	78S	03:30	279
2024	Apr	21	(Sun)	16:20	90	22:29	73S	04:03	273
2024	Apr	22	(Mon)	17:06	96	23:08	67S	04:35	267
2024	Apr	23	(Tue)	17:54	102	23:49	61S	05:07	261
2024	Apr	24	(Wed)	18:44	108			05:42	255
2024	Apr	25	(Thu)	19:37	113	00:33	56S	06:20	250
2024	Apr	26	(Fri)	20:33	117	01:21	51S	07:03	245
2024	Apr	27	(Sat)	21:31	119	02:12	48S	07:50	242
2024	Apr	28	(Sun)	22:29	120	03:07	46S	08:43	240
2024	Apr	29	(Mon)	23:26	119	04:05	45S	09:41	240
2024	Apr	30	(Tue)			05:03	47S	10:42	242
2024	May	01	(Wed)	00:19	116	06:00	50S	11:44	246
2024	May	02	(Thu)	01:08	111	06:55	54S	12:45	251
2024	May	03	(Fri)	01:54	106	07:47	60S	13:44	258
2024	May	04	(Sat)	02:36	99	08:37	67S	14:43	265
2024	May	05	(Sun)	03:17	91	09:27	75S	15:41	272
2024	May	06	(Mon)	03:58	84	10:17	82S	16:40	280
2024	May	07	(Tue)	04:40	77	11:08	89S	17:41	287
2024	May	08	(Wed)	05:26	70	12:03	87N	18:44	293
2024	May	09	(Thu)	06:16	65	13:00	82N	19:48	297
2024	May	10	(Fri)	07:10	62	14:00	79N	20:51	299
2024	May	11	(Sat)	08:07	60	15:00	78N	21:51	300
2024	May	12	(Sun)	09:06	61	15:57	79N	22:46	298
2024	May	13	(Mon)	10:05	63	16:51	82N	23:35	295
2024	May	14	(Tue)	11:00	66	17:40	85N		
2024	May	15	(Wed)	11:52	71	18:26	90N	00:17	291
2024	May	16	(Thu)	12:42	76	19:08	86S	00:55	286
2024	May	17	(Fri)	13:29	82	19:47	81S	01:30	281
2024	May	18	(Sat)	14:15	88	20:26	75S	02:03	275
2024	May	19	(Sun)	15:01	94	21:05	69S	02:35	269
2024	May	20	(Mon)	15:48	100	21:46	63S	03:07	263
2024	May	21	(Tue)	16:37	106	22:29	58S	03:41	257
2024	May	22	(Wed)	17:29	111	23:15	53S	04:18	252
2024	May	23	(Thu)	18:25	115			04:59	247
2024	May	24	(Fri)	19:23	118	00:06	49S	05:45	243
2024	May	25	(Sat)	20:23	120	01:01	46S	06:38	241
2024	May	26	(Sun)	21:21	119	01:59	45S	07:35	240
2024	May	27	(Mon)	22:16	117	02:58	46S	08:36	242
2024	May	28	(Tue)	23:06	113	03:56	49S	09:38	245
2024	May	29	(Wed)	23:52	107	04:51	53S	10:39	250
2024	May	30	(Thu)			05:44	59S	11:38	256
2024	May	31	(Fri)	00:34	101	06:33	65S	12:36	262
2024	Jun	01	(Sat)	01:15	94	07:21	72S	13:32	270
2024	Jun	02	(Sun)	01:54	87	08:09	79S	14:29	277
2024	Jun	03	(Mon)	02:35	80	08:59	86S	15:27	284
2024	Jun	04	(Tue)	03:18	73	09:50	89N	16:28	290
2024	Jun	05	(Wed)	04:04	67	10:46	84N	17:30	295
2024	Jun	06	(Thu)	04:56	63	11:44	80N	18:34	298
2024	Jun	07	(Fri)	05:52	61	12:44	79N	19:36	300
2024	Jun	08	(Sat)	06:51	60	13:43	79N	20:33	299
2024	Jun	09	(Sun)	07:50	62	14:39	81N	21:25	297
2024	Jun	10	(Mon)	08:48	65	15:31	84N	22:11	293
2024	Jun	11	(Tue)	09:43	69	16:19	88N	22:51	288
2024	Jun	12	(Wed)	10:34	74	17:03	88S	23:28	283
2024	Jun	13	(Thu)	11:22	80	17:43	83S		
2024	Jun	14	(Fri)	12:08	86	18:23	77S	00:01	277
2024	Jun	15	(Sat)	12:54	92	19:02	71S	00:33	271

2024	Jun	16	(Sun)	13:41	98	19:41	65S	01:05	265
2024	Jun	17	(Mon)	14:29	104	20:23	60S	01:39	259
2024	Jun	18	(Tue)	15:19	109	21:08	55S	02:14	254
2024	Jun	19	(Wed)	16:14	114	21:57	50S	02:53	249
2024	Jun	20	(Thu)	17:11	117	22:50	47S	03:38	245
2024	Jun	21	(Fri)	18:11	119	23:48	46S	04:28	242
2024	Jun	22	(Sat)	19:11	120			05:25	240
2024	Jun	23	(Sun)	20:09	118	00:48	46S	06:26	241
2024	Jun	24	(Mon)	21:02	114	01:48	48S	07:29	244
2024	Jun	25	(Tue)	21:50	109	02:46	52S	08:32	248
2024	Jun	26	(Wed)	22:34	103	03:40	57S	09:33	254
2024	Jun	27	(Thu)	23:15	96	04:31	63S	10:31	261
2024	Jun	28	(Fri)	23:54	89	05:19	70S	11:28	268
2024	Jun	29	(Sat)			06:07	77S	12:24	275
2024	Jun	30	(Sun)	00:34	82	06:55	84S	13:21	282
2024	Jul	01	(Mon)	01:15	75	07:45	90S	14:19	288
2024	Jul	02	(Tue)	01:59	69	08:37	86N	15:19	294
2024	Jul	03	(Wed)	02:48	65	09:33	81N	16:21	297
2024	Jul	04	(Thu)	03:41	62	10:31	79N	17:23	299
2024	Jul	05	(Fri)	04:39	60	11:30	78N	18:22	299
2024	Jul	06	(Sat)	05:38	61	12:28	80N	19:16	298
2024	Jul	07	(Sun)	06:36	64	13:22	82N	20:04	294
2024	Jul	08	(Mon)	07:32	67	14:11	86N	20:47	290
2024	Jul	09	(Tue)	08:25	72	14:57	90S	21:25	285
2024	Jul	10	(Wed)	09:15	78	15:39	85S	21:59	279
2024	Jul	11	(Thu)	10:02	84	16:19	79S	22:32	273
2024	Jul	12	(Fri)	10:48	90	16:58	73S	23:04	267
2024	Jul	13	(Sat)	11:34	96	17:37	67S	23:36	261
2024	Jul	14	(Sun)	12:21	102	18:17	62S		
2024	Jul	15	(Mon)	13:10	107	19:00	56S	00:10	256
2024	Jul	16	(Tue)	14:02	112	19:47	52S	00:47	251
2024	Jul	17	(Wed)	14:57	116	20:38	48S	01:29	246
2024	Jul	18	(Thu)	15:56	119	21:34	46S	02:16	243
2024	Jul	19	(Fri)	16:57	120	22:33	45S	03:10	241
2024	Jul	20	(Sat)	17:56	119	23:34	47S	04:10	240
2024	Jul	21	(Sun)	18:52	116			05:13	242
2024	Jul	22	(Mon)	19:43	111	00:34	50S	06:18	246
2024	Jul	23	(Tue)	20:30	105	01:31	55S	07:22	252
2024	Jul	24	(Wed)	21:13	98	02:24	61S	08:23	258
2024	Jul	25	(Thu)	21:53	91	03:15	68S	09:21	265
2024	Jul	26	(Fri)	22:33	83	04:04	75S	10:19	273
2024	Jul	27	(Sat)	23:14	77	04:52	82S	11:16	280
2024	Jul	28	(Sun)	23:58	70	05:42	89S	12:14	287
2024	Jul	29	(Mon)			06:34	87N	13:14	292
2024	Jul	30	(Tue)	00:45	66	07:28	82N	14:15	297
2024	Jul	31	(Wed)	01:36	62	08:25	80N	15:16	299
2024	Aug	01	(Thu)	02:31	60	09:23	78N	16:14	300
2024	Aug	02	(Fri)	03:29	61	10:20	79N	17:09	299
2024	Aug	03	(Sat)	04:27	62	11:14	81N	17:59	296
2024	Aug	04	(Sun)	05:23	66	12:05	85N	18:43	292
2024	Aug	05	(Mon)	06:17	70	12:52	89N	19:23	287
2024	Aug	06	(Tue)	07:08	76	13:35	87S	19:58	281
2024	Aug	07	(Wed)	07:56	81	14:16	81S	20:32	276
2024	Aug	08	(Thu)	08:43	87	14:55	75S	21:04	270
2024	Aug	09	(Fri)	09:28	94	15:34	69S	21:35	264
2024	Aug	10	(Sat)	10:14	99	16:13	64S	22:08	258
2024	Aug	11	(Sun)	11:02	105	16:54	58S	22:44	252
2024	Aug	12	(Mon)	11:52	110	17:39	53S	23:23	248
2024	Aug	13	(Tue)	12:45	115	18:27	49S		
2024	Aug	14	(Wed)	13:42	118	19:20	47S	00:06	244
2024	Aug	15	(Thu)	14:40	120	20:17	45S	00:56	241
2024	Aug	16	(Fri)	15:40	120	21:16	46S	01:52	240
2024	Aug	17	(Sat)	16:37	118	22:17	48S	02:54	241
2024	Aug	18	(Sun)	17:31	114	23:15	52S	03:58	244
2024	Aug	19	(Mon)	18:20	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	07:08	262
2024	Aug	22	(Thu)	20:29	86	01:55	72S	08:07	270
2024	Aug	23	(Fri)	21:11	79	02:46	80S	09:07	278
2024	Aug	24	(Sat)	21:55	72	03:36	87S	10:06	285
2024	Aug	25	(Sun)	22:42	67	04:29	88N	11:07	291
2024	Aug	26	(Mon)	23:32	63	05:23	83N	12:08	296

2024 Aug 27 (Tue)		06:20 80N	13:10 299
2024 Aug 28 (Wed)	00:26 61	07:18 78N	14:10 300
2024 Aug 29 (Thu)	01:24 60	08:15 78N	15:06 299
2024 Aug 30 (Fri)	02:21 62	09:10 80N	15:57 297
2024 Aug 31 (Sat)	03:18 65	10:01 83N	16:42 293
2024 Sep 01 (Sun)	04:12 69	10:49 88N	17:22 289
2024 Sep 02 (Mon)	05:03 74	11:33 89S	17:59 283
2024 Sep 03 (Tue)	05:52 79	12:14 83S	18:32 278
2024 Sep 04 (Wed)	06:39 85	12:53 77S	19:05 272
2024 Sep 05 (Thu)	07:25 91	13:32 71S	19:36 266
2024 Sep 06 (Fri)	08:10 98	14:11 65S	20:09 260
2024 Sep 07 (Sat)	08:57 103	14:52 60S	20:43 254
2024 Sep 08 (Sun)	09:46 109	15:34 55S	21:20 249
2024 Sep 09 (Mon)	10:37 113	16:20 51S	22:01 245
2024 Sep 10 (Tue)	11:31 117	17:10 47S	22:47 242
2024 Sep 11 (Wed)	12:28 119	18:04 45S	23:40 240
2024 Sep 12 (Thu)	13:26 120	19:01 45S	
2024 Sep 13 (Fri)	14:22 119	20:00 47S	00:37 240
2024 Sep 14 (Sat)	15:17 116	20:58 50S	01:39 242
2024 Sep 15 (Sun)	16:07 111	21:54 55S	02:42 246
2024 Sep 16 (Mon)	16:54 105	22:49 61S	03:45 252
2024 Sep 17 (Tue)	17:38 98	23:41 68S	04:47 258
2024 Sep 18 (Wed)	18:20 90		05:49 266
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	02:18 91S	08:53 288
2024 Sep 22 (Sun)	21:25 64	03:13 85N	09:57 294
2024 Sep 23 (Mon)	22:20 61	04:11 81N	11:01 298
2024 Sep 24 (Tue)	23:17 60	05:11 79N	12:03 300
2024 Sep 25 (Wed)		06:10 78N	13:01 300
2024 Sep 26 (Thu)	00:16 61	07:06 79N	13:54 298
2024 Sep 27 (Fri)	01:13 63	07:59 82N	14:41 295
2024 Sep 28 (Sat)	02:08 67	08:47 86N	15:23 290
2024 Sep 29 (Sun)	03:00 72	09:32 90S	16:00 285
2024 Sep 30 (Mon)	03:49 77	10:14 85S	16:34 280
2024 Oct 01 (Tue)	04:36 83	10:53 79S	17:07 274
2024 Oct 02 (Wed)	05:22 89	11:32 73S	17:38 268
2024 Oct 03 (Thu)	06:08 96	12:11 67S	18:10 262
2024 Oct 04 (Fri)	06:54 101	12:51 62S	18:44 256
2024 Oct 05 (Sat)	07:42 107	13:33 57S	19:20 251
2024 Oct 06 (Sun)	08:33 112	14:17 52S	20:00 246
2024 Oct 07 (Mon)	09:26 116	15:06 48S	20:44 243
2024 Oct 08 (Tue)	10:21 119	15:58 46S	21:33 241
2024 Oct 09 (Wed)	11:17 120	16:52 45S	22:28 240
2024 Oct 10 (Thu)	12:13 120	17:49 46S	23:26 241
2024 Oct 11 (Fri)	13:06 117	18:45 48S	
2024 Oct 12 (Sat)	13:57 114	19:41 52S	00:26 244
2024 Oct 13 (Sun)	14:43 108	20:34 58S	01:28 249
2024 Oct 14 (Mon)	15:27 102	21:26 65S	02:28 255
2024 Oct 15 (Tue)	16:09 94	22:16 72S	03:28 262
2024 Oct 16 (Wed)	16:51 86	23:08 80S	04:28 270
2024 Oct 17 (Thu)	17:35 79		05:29 278
2024 Oct 18 (Fri)	18:21 72	00:01 87S	06:31 285
2024 Oct 19 (Sat)	19:11 66	00:56 88N	07:36 291
2024 Oct 20 (Sun)	20:06 62	01:55 83N	08:42 296
2024 Oct 21 (Mon)	21:05 60	02:56 79N	09:48 299
2024 Oct 22 (Tue)	22:06 60	03:58 78N	10:51 300
2024 Oct 23 (Wed)	23:05 62	04:57 79N	11:47 299
2024 Oct 24 (Thu)		05:53 81N	12:38 296
2024 Oct 25 (Fri)	00:02 66	06:44 85N	13:22 292
2024 Oct 26 (Sat)	00:56 70	07:30 89N	14:01 287
2024 Oct 27 (Sun)	01:46 76	08:13 87S	14:36 281
2024 Oct 28 (Mon)	02:33 81	08:53 81S	15:09 276
2024 Oct 29 (Tue)	03:19 87	09:32 75S	15:40 270
2024 Oct 30 (Wed)	04:05 94	10:10 69S	16:12 264
2024 Oct 31 (Thu)	04:51 100	10:50 64S	16:45 258
2024 Nov 01 (Fri)	05:39 105	11:31 58S	17:20 252
2024 Nov 02 (Sat)	06:29 110	12:15 53S	17:59 248
2024 Nov 03 (Sun)	07:21 115	13:03 49S	18:42 244
2024 Nov 04 (Mon)	08:16 118	13:54 47S	19:30 241
2024 Nov 05 (Tue)	09:12 120	14:48 45S	20:23 240
2024 Nov 06 (Wed)	10:08 120	15:43 45S	21:20 241

2024 Nov 07 (Thu)	11:02 118	16:39 47S	22:19 243
2024 Nov 08 (Fri)	11:52 115	17:33 51S	23:18 247
2024 Nov 09 (Sat)	12:38 110	18:26 56S	
2024 Nov 10 (Sun)	13:21 104	19:16 62S	00:17 252
2024 Nov 11 (Mon)	14:02 98	20:05 69S	01:14 259
2024 Nov 12 (Tue)	14:42 90	20:54 76S	02:12 266
2024 Nov 13 (Wed)	15:24 83	21:44 83S	03:10 274
2024 Nov 14 (Thu)	16:08 75	22:38 90S	04:10 281
2024 Nov 15 (Fri)	16:55 69	23:35 85N	05:13 288
2024 Nov 16 (Sat)	17:48 64		06:18 294
2024 Nov 17 (Sun)	18:47 61	00:36 81N	07:26 298
2024 Nov 18 (Mon)	19:48 60	01:39 79N	08:32 300
2024 Nov 19 (Tue)	20:50 61	02:41 78N	09:33 299
2024 Nov 20 (Wed)	21:51 64	03:40 80N	10:28 297
2024 Nov 21 (Thu)	22:47 69	04:35 83N	11:16 293
2024 Nov 22 (Fri)	23:39 74	05:24 88N	11:58 289
2024 Nov 23 (Sat)		06:09 89S	12:35 283
2024 Nov 24 (Sun)	00:28 79	06:50 83S	13:09 278
2024 Nov 25 (Mon)	01:15 85	07:30 77S	13:41 272
2024 Nov 26 (Tue)	02:01 91	08:09 71S	14:13 266
2024 Nov 27 (Wed)	02:47 97	08:48 65S	14:45 260
2024 Nov 28 (Thu)	03:34 103	09:28 60S	15:20 254
2024 Nov 29 (Fri)	04:23 109	10:12 55S	15:57 249
2024 Nov 30 (Sat)	05:15 113	10:58 51S	16:39 245
2024 Dec 01 (Sun)	06:10 117	11:49 48S	17:26 242
2024 Dec 02 (Mon)	07:06 119	12:42 46S	18:18 240
2024 Dec 03 (Tue)	08:03 120	13:38 45S	19:15 240
2024 Dec 04 (Wed)	08:58 119	14:35 47S	20:13 242
2024 Dec 05 (Thu)	09:49 116	15:30 50S	21:13 246
2024 Dec 06 (Fri)	10:36 112	16:22 54S	22:11 251
2024 Dec 07 (Sat)	11:20 106	17:12 60S	23:08 257
2024 Dec 08 (Sun)	12:00 100	18:00 66S	
2024 Dec 09 (Mon)	12:40 93	18:48 73S	00:04 264
2024 Dec 10 (Tue)	13:19 85	19:36 80S	01:00 271
2024 Dec 11 (Wed)	14:00 78	20:26 87S	01:57 278
2024 Dec 12 (Thu)	14:44 72	21:19 88N	02:56 285
2024 Dec 13 (Fri)	15:33 66	22:17 83N	03:58 291
2024 Dec 14 (Sat)	16:28 62	23:18 80N	05:04 296
2024 Dec 15 (Sun)	17:28 60		06:10 299
2024 Dec 16 (Mon)	18:31 61	00:21 78N	07:14 300
2024 Dec 17 (Tue)	19:33 63	01:23 79N	08:13 298
2024 Dec 18 (Wed)	20:33 67	02:21 82N	09:05 295
2024 Dec 19 (Thu)	21:28 72	03:14 86N	09:51 291
2024 Dec 20 (Fri)	22:20 77	04:01 91S	10:31 285
2024 Dec 21 (Sat)	23:08 83	04:45 85S	11:06 280
2024 Dec 22 (Sun)	23:55 89	05:26 79S	11:40 274
2024 Dec 23 (Mon)		06:05 73S	12:12 268
2024 Dec 24 (Tue)	00:41 95	06:44 68S	12:44 262
2024 Dec 25 (Wed)	01:27 101	07:24 62S	13:17 256
2024 Dec 26 (Thu)	02:15 107	08:06 57S	13:54 251
2024 Dec 27 (Fri)	03:06 112	08:51 52S	14:34 246
2024 Dec 28 (Sat)	04:00 116	09:40 49S	15:19 243
2024 Dec 29 (Sun)	04:56 118	10:33 46S	16:09 241
2024 Dec 30 (Mon)	05:53 120	11:29 45S	17:05 240
2024 Dec 31 (Tue)	06:50 119	12:27 46S	18:04 242