

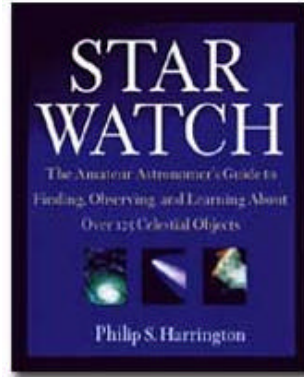
Phases of the Moon:

2003-2015

Supplemental material from *Star Watch*

by Philip S. Harrington (John Wiley & Sons, 2003)

<http://www.philharrington.net>



The table below lists the phases of the Moon between the years 2003 and 2015. Dates and times (h for hours, m for minutes) are specified in Universal Time (or U.T.).

Year	Date	h	m	Date	h	m	Date	h	m	Date	h	m
	New Moon			First Quarter			Full Moon			Last Quarter		
2003	Jan 2	20	25	Jan 10	13	11	Jan 18	10	50	Jan 25	08	35
	Feb 1	10	51	Feb 9	11	08	Feb 16	23	53	Feb 23	16	47
	Mar 3	02	37	Mar 11	07	14	Mar 18	10	36	Mar 25	01	52
	Apr 1	19	21	Apr 9	23	42	Apr 16	19	37	Apr 23	12	19
	May 1	12	16	May 9	11	57	May 16	03	37	May 23	00	31
	May 31	04	21	Jun 7	20	33	Jun 14	11	16	Jun 21	14	47
	Jun 29	18	40	Jul 7	02	38	Jul 13	19	22	Jul 21	07	04
	Jul 29	06	53	Aug 5	07	32	Aug 12	04	48	Aug 20	00	52
	Aug 27	17	27	Sep 3	12	36	Sep 10	16	36	Sep 18	19	06
	Sep 26	03	09	Oct 2	19	09	Oct 10	07	28	Oct 18	12	34
	Oct 25	12	51	Nov 1	04	22	Nov 9	01	15	Nov 17	04	17
	Nov 23	23	00	Nov 30	17	12	Dec 8	20	39	Dec 16	17	43
Dec 23	09	45	Dec 30	10	01							
2004	Jan 21	21	08	Jan 29	06	03	Jan 7	15	43	Jan 15	04	45
	Feb 20	09	21	Feb 28	03	27	Feb 6	08	50	Feb 13	13	39
	Mar 20	22	45	Mar 28	23	53	Mar 6	23	17	Mar 13	21	00
	Apr 19	13	24	Apr 27	17	39	Apr 5	11	05	Apr 12	03	47
	May 19	04	55	May 27	08	02	May 4	20	36	May 11	11	07
	Jun 17	20	29	Jun 25	19	11	Jun 3	04	21	Jun 9	20	07
	Jul 17	11	25	Jul 25	03	38	Jul 2	11	10	Jul 9	07	39
	Aug 16	01	24	Aug 23	10	10	Jul 31	18	06	Aug 7	22	06
	Sep 14	14	29	Sep 21	15	51	Aug 30	02	23	Sep 6	15	13
	Oct 14	02	48	Oct 20	21	56	Sep 28	13	09	Oct 6	10	12
	Nov 12	14	27	Nov 19	05	49	Oct 28	03	08	Nov 5	05	53
	Dec 12	01	29	Dec 18	16	40	Nov 26	20	08	Dec 5	00	51
						Dec 26	15	07				

Year	Date	h	m	Date	h	m	Date	h	m	Date	h	m
	New Moon			First Quarter			Full Moon			Last Quarter		
2005	Jan 10	12:04		Jan 17	07:00		Jan 25	10:33		Jan 3	17:43	
	Feb 8	22:30		Feb 16	00:20		Feb 24	04:55		Feb 2	07:25	
	Mar 10	09:13		Mar 17	19:23		Mar 25	21:01		Mar 3	17:37	
	Apr 8	20:35		Apr 16	14:41		Apr 24	10:09		Apr 2	00:54	
	May 8	08:49		May 16	08:59		May 23	20:21		May 1	06:30	
	Jun 6	21:58		Jun 15	01:23		Jun 22	04:16		May 30	11:54	
	Jul 6	12:05		Jul 14	15:19		Jul 21	11:03		Jun 28	18:29	
	Aug 5	03:06		Aug 13	02:37		Aug 19	17:55		Jul 28	03:22	
	Sep 3	18:46		Sep 11	11:35		Sep 18	02:02		Aug 26	15:18	
	Oct 3	10:28		Oct 10	19:01		Oct 17	12:14		Sep 25	06:38	
	Nov 2	01:24		Nov 9	01:58		Nov 16	00:57		Oct 25	01:13	
	Dec 1	15:00		Dec 8	09:39		Dec 15	16:16		Nov 23	22:09	
	Dec 31	03:12								Dec 23	19:35	
2006				Jan 6	19:60		Jan 14	09:48		Jan 22	15:16	
	Jan 29	14:16		Feb 5	06:32		Feb 13	04:45		Feb 21	07:22	
	Feb 28	00:33		Mar 6	20:18		Mar 14	23:36		Mar 22	19:17	
	Mar 29	10:18		Apr 5	12:02		Apr 13	16:42		Apr 21	03:34	
	Apr 27	19:46		May 5	05:13		May 13	06:54		May 20	09:25	
	May 27	05:28		Jun 3	23:05		Jun 11	18:05		May 28	14:10	
	Jun 25	16:07		Jul 3	16:36		Jul 11	03:04		Jun 18	14:10	
	Jul 25	04:32		Aug 2	08:46		Aug 9	10:56		Jul 17	19:12	
	Aug 23	19:11		Aug 31	22:57		Sep 7	18:44		Aug 16	01:48	
	Sep 22	11:46		Sep 30	11:05		Oct 7	03:14		Sep 14	11:12	
	Oct 22	05:15		Oct 29	21:27		Nov 5	12:59		Oct 14	00:23	
	Nov 20	22:18		Nov 28	06:30		Dec 5	00:25		Nov 12	17:46	
	Dec 20	14:01		Dec 27	14:49					Dec 12	14:35	
2007							Jan 3	13:58		Jan 11	12:50	
	Jan 19	04:01		Jan 25	23:03		Feb 2	05:46		Feb 10	09:59	
	Feb 17	16:15		Feb 24	07:57		Mar 3	23:18		Mar 12	04:01	
	Mar 19	02:44		Mar 25	18:18		Apr 2	17:16		Mar 20	18:08	
	Apr 17	11:38		Apr 24	06:37		May 2	10:11		Apr 10	04:27	
	May 16	19:29		May 23	21:03		Jun 1	01:05		May 10	04:27	
	Jun 15	03:15		Jun 22	13:15		Jun 30	13:50		Jun 8	11:40	
	Jul 14	12:05		Jul 22	06:29		Jul 30	00:50		Jul 7	16:49	
	Aug 12	23:04		Aug 20	23:54		Aug 28	10:37		Aug 5	21:16	
	Sep 11	12:45		Sep 19	16:48		Sep 26	19:47		Sep 4	02:32	
	Oct 11	05:02		Oct 19	08:33		Oct 26	04:53		Oct 3	10:08	
	Nov 9	23:04		Nov 17	22:33		Nov 24	14:31		Nov 1	21:23	
	Dec 9	17:41		Dec 17	10:18		Dec 24	01:17		Dec 1	12:50	
										Dec 31	07:57	
2008	Jan 8	11:38		Jan 15	19:47		Jan 22	13:35		Jan 30	05:07	
	Feb 7	03:45		Feb 14	03:36		Feb 21	03:31		Feb 29	02:21	
	Mar 7	17:15		Mar 14	10:48		Mar 21	18:40		Mar 29	21:47	
	Apr 6	03:56		Apr 12	18:34		Apr 20	10:26		Apr 28	14:10	
	May 5	12:19		May 12	03:48		May 20	02:12		May 28	02:53	
	Jun 3	19:24		Jun 10	15:03		Jun 18	17:31		Jun 26	12:07	
	Jul 3	02:20		Jul 10	04:33		Jul 18	08:00		Jul 25	18:41	
	Aug 1	10:14		Aug 8	20:18		Aug 16	21:18		Aug 23	23:52	
	Aug 30	19:59		Sep 7	14:03		Sep 15	09:15		Sep 22	05:10	
	Sep 29	08:13		Oct 7	09:04		Oct 14	20:04		Oct 21	12:02	
	Oct 28	23:15		Nov 6	04:05		Nov 13	06:19		Nov 19	21:38	
	Nov 27	16:56		Dec 5	21:29		Dec 12	16:39		Dec 19	10:34	
	Dec 27	12:24										

Year	Date	h	m	Date	h	m	Date	h	m	Date	h	m
	New Moon			First Quarter			Full Moon			Last Quarter		
2009	Jan 26	07:56		Jan 4	12:00		Jan 11	03:28		Jan 18	02:47	
	Feb 25	01:37		Feb 2	23:17		Feb 9	14:50		Feb 16	21:36	
	Mar 26	16:08		Mar 4	07:48		Mar 11	02:38		Mar 18	17:46	
	Apr 25	03:24		Apr 2	14:34		Apr 9	14:56		Apr 17	13:34	
	May 24	12:12		May 1	20:43		May 9	04:02		May 17	07:25	
	Jun 22	19:36		May 31	03:19		Jun 7	18:12		Jun 15	22:15	
	Jul 22	02:35		Jun 29	11:25		Jul 7	09:22		Jul 15	09:56	
	Aug 20	10:02		Jul 28	21:57		Aug 6	00:56		Aug 13	18:59	
	Sep 18	18:45		Aug 27	11:41		Sep 4	16:04		Sep 12	02:20	
	Oct 18	05:33		Sep 26	04:51		Oct 4	06:12		Oct 11	09:60	
	Nov 16	19:14		Oct 26	00:46		Nov 2	19:15		Nov 9	15:59	
	Dec 16	12:03		Nov 24	21:44		Dec 2	07:32		Dec 9	00:15	
			Dec 24	17:41		Dec 31	19:14					
2010	Jan 15	7:13		Jan 23	10:57		Jan 30	6:19		Jan 7	10:40	
	Feb 14	2:53		Feb 22	0:42		Feb 28	16:39		Feb 5	23:48	
	Mar 15	21:03		Mar 23	10:57		Mar 30	2:26		Mar 7	15:42	
	Apr 14	12:31		Apr 21	18:15		Apr 28	12:19		Apr 6	09:37	
	May 14	1:06		May 20	23:38		May 27	23:08		May 6	04:16	
	Jun 12	11:16		Jun 19	4:27		Jun 26	11:31		Jun 4	22:16	
	Jul 11	19:41		Jul 18	10:12		Jul 26	1:38		Jul 4	14:39	
	Aug 10	3:09		Aug 16	18:18		Aug 24	17:06		Aug 3	05:03	
	Sep 8	10:30		Sep 15	5:55		Sep 23	9:19		Sep 1	17:25	
	Oct 7	18:45		Oct 14	21:32		Oct 23	1:38		Oct 1	3:54	
	Nov 6	4:52		Nov 13	16:42		Nov 21	17:29		Oct 30	12:46	
	Dec 5	17:37		Dec 13	14:00		Dec 21	8:15		Nov 28	20:37	
									Dec 28	04:19		
2011	Jan 4	9:05		Jan 12	11:31		Jan 19	21:23		Jan 26	12:59	
	Feb 3	2:33		Feb 11	7:15		Feb 18	8:37		Feb 24	23:28	
	Mar 4	20:48		Mar 12	23:40		Mar 19	18:11		Mar 26	12:09	
	Apr 3	14:34		Apr 11	12: 1		Apr 18	2:44		Apr 25	02:47	
	May 3	6:51		May 10	20:30		May 17	11:08		May 24	18:53	
	Jun 1	21:03		Jun 9	2:11		Jun 15	20:13		Jun 23	11:49	
	Jul 1	8:54		Jul 8	6:34		Jul 15	6:39		Jul 23	05:04	
	Jul 30	18:40		Aug 6	11:15		Aug 13	18:58		Aug 21	21:57	
	Aug 29	3:04		Sep 4	17:46		Sep 12	9:27		Sep 20	13:41	
	Sep 27	11:09		Oct 4	3:20		Oct 12	2:07		Sep 27	03:32	
	Oct 26	19:57		Nov 2	16:39		Nov 10	20:18		Oct 20	03:32	
	Nov 25	6:11		Dec 2	9:50		Dec 10	14:38		Nov 18	15:11	
Dec 24	18:08								Dec 18	00:49		
2012	Jan 23	7:42		Jan 1	6:11		Jan 9	7:32		Jan 16	9:09	
	Feb 21	22:37		Jan 31	4:06		Feb 7	21:56		Feb 14	17:05	
	Mar 22	14:39		Mar 1	1:19		Mar 8	9:42		Mar 15	1:26	
	Apr 21	7:20		Mar 30	19:41		Apr 6	19:20		Apr 13	10:50	
	May 20	23:48		Apr 29	10:01		May 6	3:36		May 12	21:47	
	Jun 19	15:03		May 28	20:21		Jun 4	11:12		Jun 11	10:42	
	Jul 19	4:25		Jun 27	3:36		Jul 3	18:52		Jul 11	1:50	
	Aug 17	15:55		Jul 26	9:02		Aug 2	3:27		Aug 9	18:58	
	Sep 16	2:11		Aug 24	13:57		Aug 31	13:58		Sep 8	13:19	
	Oct 15	12:03		Sep 22	19:41		Sep 30	3:19		Oct 8	7:36	
	Nov 13	22:08		Oct 22	3:30		Oct 29	19:51		Nov 7	0:38	
	Dec 13	8:42		Nov 20	14:27		Nov 28	14:47		Dec 6	15:33	
			Dec 20	5:15		Dec 28	10:23					

Year	Date	h	m	Date	h	m	Date	h	m	Date	h	m
	New Moon			First Quarter			Full Moon			Last Quarter		
2013	Jan 11	19:45		Jan 18	23:43		Jan 27	4:40		Jan 5	3:57	
	Feb 10	7:23		Feb 17	20:31		Feb 25	20:29		Feb 3	13:55	
	Mar 11	19:54		Mar 19	17:30		Mar 27	9:30		Mar 4	21:52	
	Apr 10	9:39		Apr 18	12:37		Apr 25	20:60		Apr 3	4:37	
	May 10	0:32		May 18	4:41		May 25	4:27		May 2	11:16	
	Jun 8	15:59		Jun 16	17:29		Jun 23	11:34		May 31	19:02	
	Jul 8	7:16		Jul 16	3:21		Jul 22	18:17		Jun 30	4:59	
	Aug 6	21:52		Aug 14	10:56		Aug 21	1:45		Jul 29	17:49	
	Sep 5	11:36		Sep 12	17:06		Sep 19	11:13		Aug 28	9:39	
	Oct 5	0:34		Oct 11	23:60		Oct 18	23:38		Sep 27	3:57	
	Nov 3	12:50		Nov 10	5:55		Nov 17	15:17		Oct 26	23:41	
	Dec 3	0:22		Dec 9	15:12		Dec 17	9:29		Nov 25	19:27	
										Dec 25	13:46	
2014	Jan 1	11:15		Jan 8	3:41		Jan 16	4:54		Jan 24	5:17	
	Jan 30	21:41		Feb 6	19:25		Feb 14	23:55		Feb 22	17:15	
	Mar 1	8:03		Mar 8	13:31		Mar 16	17:11		Mar 24	1:48	
	Mar 30	18:48		Apr 7	8:35		Apr 15	7:45		Apr 22	07:57	
	Apr 29	6:18		May 7	3:18		May 14	19:19		May 21	13:06	
	May 28	18:43		Jun 5	20:41		Jun 13	04:14		Jun 19	18:45	
	Jun 27	8:11		Jul 5	11:59		Jul 12	11:27		Jul 19	2:13	
	Jul 26	22:43		Aug 4	0:48		Aug 10	18:11		Aug 17	12:27	
	Aug 25	14:13		Sep 2	11:9		Sep 9	1:39		Sep 16	2:03	
	Sep 24	6:14		Oct 1	19:31		Oct 8	10:51		Oct 15	19:08	
	Oct 23	21:56		Oct 31	2:49		Nov 6	22:23		Nov 14	15:12	
	Nov 22	12:32		Nov 29	10:08		Dec 6	12:27		Dec 14	12:50	
	Dec 22	1:36		Dec 28	18:35							
2015							Jan 5	4:53		Jan 13	9:46	
	Jan 20	13:13		Jan 27	4:48		Feb 3	23:09		Feb 12	3:50	
	Feb 18	23:47		Feb 25	17:14		Mar 5	18:05		Mar 13	17:48	
	Mar 20	9:36		Mar 27	7:42		Apr 4	12:05		Apr 12	3:44	
	Apr 18	18:57		Apr 25	23:55		May 4	3:42		May 11	10:36	
	May 18	4:13		May 25	17:19		Jun 2	16:19		Jun 9	15:42	
	Jun 16	14:05		Jun 24	11:02		Jul 2	2:19		Jul 8	20:24	
	Jul 16	1:24		Jul 24	4:04		Jul 31	10:43		Aug 7	2:03	
	Aug 14	14:53		Aug 22	19:31		Aug 29	18:35		Sep 5	9:54	
	Sep 13	6:41		Sep 21	8:59		Sep 28	2:50		Oct 4	21:06	
	Oct 13	0:06		Oct 20	20:31		Oct 27	12:05		Nov 3	12:24	
	Nov 11	17:47		Nov 19	6:27		Nov 25	22:44		Dec 3	7:40	
	Dec 11	10:29		Dec 18	15:14		Dec 25	11:11				