

<http://sunearth.gsfc.nasa.gov/eclipse/phase/phasecat.html>

The following tables give the date and time (Greenwich Mean Time) of all phases of the Moon for a period covering five millenia. This data is provided primarily to assist in historical research projects. For the year 2000, the length of the mean synodic month (New Moon to New Moon) is 29.53059 days.

Delta T is listed in the last column on the right. This is the value used to convert Dynamical Time to Universal Time (i.e. - Greenwich Mean Time) in the tables. Delta-T is only known explicitly for the past two centuries. Estimated values for other times are based primarily on historic eclipse records (past) or extrapolation of current rates (future):

- 1) pre-1600: delta T was calculated from empirical expressions by Stephenson and Houlden [1986]
- 2) 1600-present: delta T was obtained from published observations
- 3) future: delta-T was extrapolated from current values

The tables also indicate whether or not an eclipse of the Sun or Moon occurs on any given date and assigns an eclipse type. Note that an eclipse of the Sun can occur only at New Moon, while an eclipse of the Moon can occur only at Full Moon. In any calendar year there are 2 to 5 eclipses of each kind (solar and lunar, including penumbral). However, there cannot be any more than 7 eclipses in any one year (4 solar and 3 lunar, or 5 solar and 2 lunar). The only years from this group with 7 are 1749, 1805, 1861, 1879, 1908, 1917, 1973, 1982, 2038, 2094, 2103, 2132, 2159, 2206, 2215, 2233, 2262, 2280 and 2400.

<p>Solar Eclipses: T - Total           A - Annular           H - Hybrid (Annular/Total)           P - Partial</p>	<p>Lunar Eclipses: t - Total           p - Umbral (Partial)           n - Penumbral</p>
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Year	New Moon		First Quarter		Full Moon		Last Quarter	
Delta T								
1701							Jan 1	18:22
00h00m	Jan 9	04:22	Jan 17	09:41	Jan 24	12:52	Jan 31	04:21
	Feb 7	22:56 A	Feb 16	03:15	Feb 22	23:36 p	Mar 1	16:18
	Mar 9	17:50	Mar 17	16:53	Mar 24	09:09	Mar 31	06:27
	Apr 8	11:17	Apr 16	02:47	Apr 22	17:51	Apr 29	22:34
	May 8	02:10	May 15	09:41	May 22	02:30	May 29	15:53
	Jun 6	14:25	Jun 13	14:41	Jun 20	12:08	Jun 28	09:24
	Jul 6	00:35	Jul 12	19:08	Jul 19	23:43	Jul 28	02:11
	Aug 4	09:26 T	Aug 11	00:33	Aug 18	13:42 p	Aug 26	17:42
	Sep 2	17:41	Sep 9	08:27	Sep 17	05:49	Sep 25	07:37
	Oct 2	02:01	Oct 8	20:06	Oct 16	23:14	Oct 24	19:48
	Oct 31	11:11	Nov 7	12:03	Nov 15	16:55	Nov 23	06:09
	Nov 29	21:54	Dec 7	07:43	Dec 15	09:54	Dec 22	14:56
	Dec 29	10:41						
1702			Jan 6	05:27	Jan 14	01:20 n	Jan 20	22:49
00h00m	Jan 28	01:39 A	Feb 5	03:02	Feb 12	14:37 n	Feb 19	06:48
	Feb 26	18:10	Mar 6	22:30	Mar 14	01:28	Mar 20	15:55
	Mar 28	11:16	Apr 5	14:33	Apr 12	10:15	Apr 19	02:50
	Apr 27	03:54	May 5	02:40	May 11	17:47	May 18	15:45
	May 26	19:24	Jun 3	11:07	Jun 10	01:10	Jun 17	06:34
	Jun 25	09:23	Jul 2	16:52	Jul 9	09:29 n	Jul 16	22:57
	Jul 24	21:41 A	Jul 31	21:21	Aug 7	19:35	Aug 15	16:27
	Aug 23	08:24	Aug 30	02:12	Sep 6	08:04	Sep 14	10:23

Sep 21	18:01	Sep 28	08:57	Oct 5	23:09	Oct 14	03:47
Oct 21	03:15	Oct 27	18:51	Nov 4	16:40	Nov 12	19:28
Nov 19	12:57	Nov 26	08:31	Dec 4	11:45	Dec 12	08:36
Dec 18	23:40	Dec 26	01:50				

1703  
00h00m

				Jan 3	06:51 p	Jan 10	19:03
Jan 17	11:33 H	Jan 24	21:52	Feb 2	00:11	Feb 9	03:23
Feb 16	00:27	Feb 23	19:03	Mar 3	14:33	Mar 10	10:37
Mar 17	14:12	Mar 25	15:25	Apr 2	01:48	Apr 8	17:45
Apr 16	04:44	Apr 24	09:12	May 1	10:39	May 8	01:41
May 15	19:59	May 23	23:22	May 30	18:07	Jun 6	11:11
Jun 14	11:34	Jun 22	09:56	Jun 29	01:09 t	Jul 5	22:55
Jul 14	02:48 P	Jul 21	17:42	Jul 28	08:37	Aug 4	13:22
Aug 12	16:57	Aug 19	23:48	Aug 26	17:21	Sep 3	06:38
Sep 11	05:43	Sep 18	05:30	Sep 25	04:14	Oct 3	01:57
Oct 10	17:21	Oct 17	12:01	Oct 24	18:03	Nov 1	21:49
Nov 9	04:27	Nov 15	20:26	Nov 23	11:05	Dec 1	16:30
Dec 8	15:28 P	Dec 15	07:36	Dec 23	06:30 t	Dec 31	08:38

1704  
00h00m

Jan 7	02:28 P	Jan 13	22:00	Jan 22	02:24	Jan 29	21:35
Feb 5	13:20	Feb 12	15:27	Feb 20	20:42	Feb 28	07:28
Mar 6	00:08	Mar 13	10:55	Mar 21	12:07	Mar 28	14:52
Apr 4	11:16	Apr 12	06:39	Apr 20	00:31	Apr 26	20:43
May 3	23:23	May 12	00:59	May 19	10:24	May 26	02:16
Jun 2	12:52 A	Jun 10	16:53	Jun 17	18:30 t	Jun 24	08:52
Jul 2	03:35	Jul 10	06:06	Jul 17	01:36	Jul 23	17:49
Jul 31	18:59	Aug 8	16:54	Aug 15	08:36	Aug 22	06:07
Aug 30	10:25	Sep 7	01:45	Sep 13	16:32	Sep 20	22:09
Sep 29	01:26	Oct 6	09:17	Oct 13	02:29	Oct 20	17:20
Oct 28	15:50	Nov 4	16:17	Nov 11	15:21	Nov 19	14:17
Nov 27	05:25 A	Dec 3	23:50	Dec 11	07:19 p	Dec 19	11:12
Dec 26	17:54						

1705  
00h00m

		Jan 2	09:03	Jan 10	01:36	Jan 18	06:14
Jan 25	05:06	Jan 31	20:47	Feb 8	20:42	Feb 16	22:01
Feb 23	15:07	Mar 2	11:11	Mar 10	15:05	Mar 18	09:51
Mar 25	00:27	Apr 1	03:40	Apr 9	07:34	Apr 16	18:00
Apr 23	09:48	Apr 30	21:15	May 8	21:33 n	May 15	23:32
May 22	19:54 H	May 30	14:57	Jun 7	08:53 n	Jun 14	03:57
Jun 21	07:16	Jun 29	08:02	Jul 6	17:57	Jul 13	08:55
Jul 20	20:12	Jul 28	23:53	Aug 5	01:36	Aug 11	15:53
Aug 19	10:49	Aug 27	13:59	Sep 3	08:56	Sep 10	02:01
Sep 18	03:00	Sep 26	02:01	Oct 2	17:05	Oct 9	15:57
Oct 17	20:12	Oct 25	12:01	Nov 1	02:58 n	Nov 8	09:38
Nov 16	13:22 A	Nov 23	20:31	Nov 30	15:03 n	Dec 8	06:20
Dec 16	05:17	Dec 23	04:25	Dec 30	05:18		

Year  
Delta T

New Moon      First Quarter      Full Moon      Last Quarter

1706  
00h00m

						Jan 7	04:21
Jan 14	19:07	Jan 21	12:43	Jan 28	21:21	Feb 6	01:27
Feb 13	06:47	Feb 19	22:11	Feb 27	14:39	Mar 7	19:28
Mar 14	16:42	Mar 21	09:14	Mar 29	08:22	Apr 6	09:14
Apr 13	01:28	Apr 19	22:01	Apr 28	01:22 p	May 5	18:55
May 12	09:42 T	May 19	12:32	May 27	16:32	Jun 4	01:30
Jun 10	18:02	Jun 18	04:41	Jun 26	05:15	Jul 3	06:24

Jul 10	03:13	Jul 17	22:00	Jul 25	15:45	Aug 1	11:02
Aug 8	14:10	Aug 16	15:38	Aug 24	00:52	Aug 30	16:48
Sep 7	03:41	Sep 15	08:32	Sep 22	09:37	Sep 29	00:54
Oct 6	20:03	Oct 14	23:48	Oct 21	18:51 p	Oct 28	12:24
Nov 5	14:32 A	Nov 13	13:01	Nov 20	05:00	Nov 27	03:55
Dec 5	09:30	Dec 13	00:10	Dec 19	16:12	Dec 26	23:14

1707  
00h00m

Jan 4	03:11	Jan 11	09:32	Jan 18	04:33	Jan 25	20:51
Feb 2	18:34	Feb 9	17:39	Feb 16	18:16	Feb 24	18:25
Mar 4	07:25	Mar 11	01:13	Mar 18	09:26	Mar 26	13:40
Apr 2	18:00 P	Apr 9	09:09	Apr 17	01:39 t	Apr 25	05:21
May 2	02:41 P	May 8	18:24	May 16	17:57	May 24	17:21
May 31	10:04	Jun 7	05:47	Jun 15	09:22	Jun 23	02:12
Jun 29	17:02	Jul 6	19:42	Jul 14	23:21	Jul 22	08:45
Jul 29	00:41	Aug 5	12:03	Aug 13	11:56	Aug 20	14:04
Aug 27	10:17	Sep 4	06:08	Sep 11	23:29	Sep 18	19:24
Sep 25	22:48 P	Oct 4	00:56	Oct 11	10:25 t	Oct 18	02:11
Oct 25	14:33 P	Nov 2	19:18	Nov 9	21:00	Nov 16	11:45
Nov 24	08:51	Dec 2	12:09	Dec 9	07:26	Dec 16	01:04
Dec 24	04:16						

1708  
00h00m

		Jan 1	02:28	Jan 7	17:59	Jan 14	18:03
Jan 22	23:12	Jan 30	13:45	Feb 6	05:00	Feb 13	13:35
Feb 21	16:19	Feb 28	22:11	Mar 6	16:52	Mar 14	09:56
Mar 22	06:45 A	Mar 29	04:40	Apr 5	05:45 p	Apr 13	05:21
Apr 20	18:13	Apr 27	10:35	May 4	19:32	May 12	22:40
May 20	03:02	May 26	17:16	Jun 3	10:00	Jun 11	13:13
Jun 18	10:07	Jun 25	01:51	Jul 3	00:53	Jul 11	00:47
Jul 17	16:38	Jul 24	13:08	Aug 1	15:58	Aug 9	09:39
Aug 15	23:52	Aug 23	03:25	Aug 31	06:53	Sep 7	16:36
Sep 14	08:52 T	Sep 21	20:41	Sep 29	21:09 p	Oct 6	22:46
Oct 13	20:24	Oct 21	16:21	Oct 29	10:22	Nov 5	05:31
Nov 12	10:44	Nov 20	13:07	Nov 27	22:26	Dec 4	14:05
Dec 12	03:41	Dec 20	09:04	Dec 27	09:35		

1709  
00h00m

						Jan 3	01:13
Jan 10	22:33	Jan 19	02:15	Jan 25	20:13	Feb 1	15:07
Feb 9	18:00	Feb 17	15:36	Feb 24	06:37 n	Mar 3	07:23
Mar 11	12:19 A	Mar 19	01:10	Mar 25	16:56 n	Apr 2	01:16
Apr 10	03:58	Apr 17	07:57	Apr 24	03:23	May 1	19:48
May 9	16:20	May 16	13:15	May 23	14:25	May 31	13:50
Jun 8	01:53	Jun 14	18:25	Jun 22	02:39	Jun 30	06:17
Jul 7	09:41	Jul 14	00:42	Jul 21	16:35	Jul 29	20:27
Aug 5	16:54	Aug 12	09:14	Aug 20	08:12 n	Aug 28	08:13
Sep 4	00:32 T	Sep 10	21:01	Sep 19	00:49 n	Sep 26	17:59
Oct 3	09:21	Oct 10	12:42	Oct 18	17:18	Oct 26	02:26
Nov 1	19:52	Nov 9	08:08	Nov 17	08:45	Nov 24	10:22
Dec 1	08:37	Dec 9	05:52	Dec 16	22:47	Dec 23	18:31
Dec 30	23:55						

1710  
00h00m

		Jan 8	03:35	Jan 15	11:25	Jan 22	03:36
Jan 29	17:31	Feb 6	22:56	Feb 13	22:43 p	Feb 20	14:16
Feb 28	12:17 A	Mar 8	14:33	Mar 15	08:42	Mar 22	02:59
Mar 30	06:27	Apr 7	02:13	Apr 13	17:32	Apr 20	17:49
Apr 28	22:34	May 6	10:28	May 13	01:53	May 20	10:21
May 28	12:04	Jun 4	16:14	Jun 11	10:42	Jun 19	03:45
Jun 26	23:14	Jul 3	20:46	Jul 10	21:05	Jul 18	21:03
Jul 26	08:46	Aug 2	01:29	Aug 9	09:48 p	Aug 17	13:27
Aug 24	17:24 T	Aug 31	07:57	Sep 8	00:59	Sep 16	04:31
Sep 23	01:48	Sep 29	17:37	Oct 7	18:03	Oct 15	17:56

Oct 22 10:39	Oct 29 07:26	Nov 6 11:58	Nov 14 05:31
Nov 20 20:37	Nov 28 01:25	Dec 6 05:38	Dec 13 15:14
Dec 20 08:21	Dec 27 22:22		

Year Delta T	New Moon	First Quarter	Full Moon	Last Quarter
1711 00h00m			Jan 4 22:05	Jan 11 23:30
	Jan 18 22:09 P	Jan 26 20:15	Feb 3 12:32 t	Feb 10 07:12
	Feb 17 13:47 P	Feb 25 16:54	Mar 5 00:32	Mar 11 15:24
	Mar 19 06:27	Mar 27 10:43	Apr 3 10:08	Apr 10 01:02
	Apr 17 23:10	Apr 26 00:47	May 2 18:00	May 9 12:37
	May 17 15:09	May 25 11:01	Jun 1 01:11	Jun 8 02:14
	Jun 16 05:54	Jun 23 18:02	Jun 30 08:47	Jul 7 17:43
	Jul 15 19:08 P	Jul 22 23:03	Jul 29 17:51 t	Aug 6 10:44
	Aug 14 06:48	Aug 21 03:36	Aug 28 05:05	Sep 5 04:44
	Sep 12 17:08	Sep 19 09:18	Sep 26 18:56	Oct 4 22:51
	Oct 12 02:43	Oct 18 17:34	Oct 26 11:25	Nov 3 15:52
	Nov 10 12:18	Nov 17 05:21	Nov 25 06:01	Dec 3 06:39
	Dec 9 22:34	Dec 16 20:52	Dec 25 01:27	
1712 00h00m				Jan 1 18:35
	Jan 8 09:52 T	Jan 15 15:34	Jan 23 19:56 p	Jan 31 03:55
	Feb 6 22:09	Feb 14 12:13	Feb 22 11:52	Feb 29 11:28
	Mar 7 11:14	Mar 15 09:03	Mar 23 00:33	Mar 29 18:20
	Apr 6 01:04	Apr 14 04:11	Apr 21 10:23	Apr 28 01:30
	May 5 15:42	May 13 20:11	May 20 18:18	May 27 09:51
	Jun 4 07:00	Jun 12 08:34	Jun 19 01:22	Jun 25 20:09
	Jul 3 22:29 A	Jul 11 17:46	Jul 18 08:29 p	Jul 25 09:04
	Aug 2 13:22	Aug 10 00:44	Aug 16 16:31	Aug 24 00:56
	Sep 1 03:04	Sep 8 06:41	Sep 15 02:17	Sep 22 19:30
	Sep 30 15:30	Oct 7 12:50	Oct 14 14:38	Oct 22 15:34
	Oct 30 03:04	Nov 5 20:17	Nov 13 06:09	Nov 21 11:21
	Nov 28 14:18	Dec 5 05:59	Dec 13 00:36 n	Dec 21 05:06
	Dec 28 01:25 T			
1713 00h00m		Jan 3 18:39	Jan 11 20:32 n	Jan 19 19:49
	Jan 26 12:19	Feb 2 10:26	Feb 10 15:49	Feb 18 07:13
	Feb 24 22:57	Mar 4 04:47	Mar 12 08:40	Mar 19 15:41
	Mar 26 09:36	Apr 3 00:19	Apr 10 22:28	Apr 17 22:02
	Apr 24 20:51	May 2 19:20	May 10 09:27	May 17 03:24
	May 24 09:22	Jun 1 12:29	Jun 8 18:19 p	Jun 15 09:07
	Jun 22 23:20 A	Jul 1 03:08	Jul 8 01:51	Jul 14 16:34
	Jul 22 14:27	Jul 30 15:19	Aug 6 08:51	Aug 13 03:00
	Aug 21 06:04	Aug 29 01:21	Sep 4 16:17	Sep 11 17:10
	Sep 19 21:35	Sep 27 09:45	Oct 4 01:12	Oct 11 10:59
	Oct 19 12:37	Oct 26 17:08	Nov 2 12:38	Nov 10 07:26
	Nov 18 02:55	Nov 25 00:25	Dec 2 03:07 p	Dec 10 04:46
	Dec 17 16:10 H	Dec 24 08:40	Dec 31 20:21	
1714 00h00m				Jan 9 01:05
	Jan 16 04:04	Jan 22 18:57	Jan 30 15:08	Feb 7 18:41
	Feb 14 14:34	Feb 21 07:47	Mar 1 09:53	Mar 9 08:31
	Mar 15 23:59	Mar 22 22:59	Mar 31 03:16	Apr 7 18:23
	Apr 14 09:01	Apr 21 15:48	Apr 29 18:27	May 7 01:00
	May 13 18:25 P	May 21 09:19	May 29 07:04 t	Jun 5 05:42
	Jun 12 04:53 P	Jun 20 02:42	Jun 27 17:15	Jul 4 10:06

Jul 11	16:52	Jul 19	19:20	Jul 27	01:35	Aug 2	15:50
Aug 10	06:37	Aug 18	10:37	Aug 25	09:05	Sep 1	00:15
Sep 8	22:10	Sep 17	00:02	Sep 23	16:51	Sep 30	12:15
Oct 8	15:10	Oct 16	11:22	Oct 23	01:56	Oct 30	04:09
Nov 7	08:46 P	Nov 14	20:48	Nov 21	13:00 t	Nov 28	23:33
Dec 7	01:41 P	Dec 14	05:02	Dec 21	02:12	Dec 28	21:12

1715 00h00m	Jan 5	16:46	Jan 12	13:01	Jan 19	17:17	Jan 27	19:04
	Feb 4	05:31	Feb 10	21:41	Feb 18	09:50	Feb 26	14:48
	Mar 5	16:08	Mar 12	07:39	Mar 20	03:13	Mar 28	06:43
	Apr 4	01:15	Apr 10	19:12	Apr 18	20:31	Apr 26	18:20
	May 3	09:29 T	May 10	08:31	May 18	12:36 p	May 26	02:19
	Jun 1	17:31	Jun 8	23:37	Jun 17	02:34	Jun 24	07:55
	Jul 1	02:02	Jul 8	16:19	Jul 16	14:13	Jul 23	12:33
	Jul 30	11:55	Aug 7	09:59	Aug 15	00:05	Aug 21	17:38
	Aug 29	00:05	Sep 6	03:37	Sep 13	09:07	Sep 20	00:29
	Sep 27	15:08	Oct 5	20:08	Oct 12	18:16	Oct 19	10:12
	Oct 27	08:53 A	Nov 4	10:46	Nov 11	04:06 p	Nov 17	23:41
	Nov 26	04:01	Dec 3	23:12	Dec 10	14:51	Dec 17	17:10
	Dec 25	22:41						

Year	New Moon	First Quarter	Full Moon	Last Quarter
1716 00h00m		Jan 2 09:34	Jan 9 02:35	Jan 16 13:48
	Jan 24 15:22	Jan 31 18:14	Feb 7 15:25	Feb 15 11:34
	Feb 23 05:27	Mar 1 01:50	Mar 8 05:37	Mar 16 08:04
	Mar 23 17:02	Mar 30 09:13	Apr 6 21:05 n	Apr 15 01:32
	Apr 22 02:29 T	Apr 28 17:24	May 6 13:13 n	May 14 15:20
	May 21 10:18	May 28 03:20	Jun 5 05:03	Jun 13 01:45
	Jun 19 17:16	Jun 26 15:43	Jul 4 19:48	Jul 12 09:28
	Jul 19 00:23	Jul 26 06:47	Aug 3 09:12	Aug 10 15:25
	Aug 17 08:51	Aug 25 00:10	Sep 1 21:28	Sep 8 20:43
	Sep 15 19:52	Sep 23 18:56	Oct 1 08:56 n	Oct 8 02:44
	Oct 15 10:06 A	Oct 23 13:58	Oct 30 19:55 n	Nov 6 10:49
	Nov 14 03:22	Nov 22 08:01	Nov 29 06:35	Dec 5 22:11
	Dec 13 22:31	Dec 21 23:56	Dec 28 17:06	

1717 00h00m				Jan 4 13:18
	Jan 12 17:55	Jan 20 12:54	Jan 27 03:46	Feb 3 07:33
	Feb 11 12:04	Feb 18 22:40	Feb 25 14:59	Mar 5 03:28
	Mar 13 03:51	Mar 20 05:53	Mar 27 03:05 p	Apr 3 23:18
	Apr 11 16:43 H	Apr 18 11:43	Apr 25 16:09	May 3 17:39
	May 11 02:42	May 17 17:37	May 25 06:03	Jun 2 09:37
	Jun 9 10:28	Jun 16 00:55	Jun 23 20:37	Jul 1 22:48
	Jul 8 17:06	Jul 15 10:36	Jul 23 11:39	Jul 31 09:10
	Aug 6 23:52	Aug 13 23:16	Aug 22 02:51	Aug 29 17:13
	Sep 5 07:56	Sep 12 15:06	Sep 20 17:47 p	Sep 27 23:52
	Oct 4 18:15 H	Oct 12 09:49	Oct 20 07:53	Oct 27 06:21
	Nov 3 07:15	Nov 11 06:27	Nov 18 20:46	Nov 25 13:58
	Dec 2 22:59	Dec 11 03:18	Dec 18 08:29	Dec 24 23:44

1718 00h00m	Jan 1	16:59	Jan 9	22:13	Jan 16	19:22	Jan 23	12:06
	Jan 31	12:16	Feb 8	13:37	Feb 15	05:46	Feb 22	02:59
	Mar 2	07:15 P	Mar 10	01:00	Mar 16	15:54 t	Mar 23	19:50
	Apr 1	00:15 P	Apr 8	08:57	Apr 15	01:59	Apr 22	13:52
	Apr 30	14:11	May 7	14:43	May 14	12:24	May 22	08:06

May 30	01:01	Jun 5	19:40	Jun 12	23:45	Jun 21	01:27
Jun 28	09:35	Jul 5	01:07	Jul 12	12:40	Jul 20	16:58
Jul 27	17:02	Aug 3	08:18	Aug 11	03:30	Aug 19	06:11
Aug 26	00:29 P	Sep 1	18:18	Sep 9	19:53 t	Sep 17	17:12
Sep 24	08:46 P	Oct 1	08:01	Oct 9	12:50	Oct 17	02:32
Oct 23	18:30	Oct 31	01:44	Nov 8	05:11	Nov 15	10:52
Nov 22	06:10	Nov 29	22:40	Dec 7	20:10	Dec 14	18:55
Dec 21	20:09	Dec 29	20:48				

1719  
00h00m

				Jan 6	09:37	Jan 13	03:25
Jan 20	12:34	Jan 28	17:37	Feb 4	21:35	Feb 11	13:02
Feb 19	06:45 A	Feb 27	11:12	Mar 6	08:06 p	Mar 13	00:23
Mar 21	01:13	Mar 29	00:47	Apr 4	17:17	Apr 11	13:49
Apr 19	18:20	Apr 27	10:37	May 4	01:33	May 11	05:15
May 19	09:04	May 26	17:28	Jun 2	09:48	Jun 9	22:08
Jun 17	21:21	Jun 24	22:27	Jul 1	19:08	Jul 9	15:33
Jul 17	07:43	Jul 24	02:53	Jul 31	06:32	Aug 8	08:36
Aug 15	16:53 T	Aug 22	08:17	Aug 29	20:33 p	Sep 7	00:40
Sep 14	01:31	Sep 20	16:12	Sep 28	12:55	Oct 6	15:18
Oct 13	10:16	Oct 20	03:54	Oct 28	06:45	Nov 5	04:09
Nov 11	19:45	Nov 18	19:54	Nov 27	00:53	Dec 4	15:02
Dec 11	06:35	Dec 18	15:35	Dec 26	18:14		

1720  
00h00m

						Jan 3	00:03
Jan 9	19:17	Jan 17	13:13	Jan 25	09:50 n	Feb 1	07:52
Feb 8	09:54 A	Feb 16	10:38	Feb 23	23:04 n	Mar 1	15:31
Mar 9	01:54	Mar 17	05:57	Mar 24	09:42	Mar 31	00:03
Apr 7	18:26	Apr 15	21:53	Apr 22	18:10	Apr 29	10:17
May 7	10:39	May 15	10:01	May 22	01:25	May 28	22:35
Jun 6	01:58	Jun 13	18:35	Jun 20	08:33	Jun 27	12:57
Jul 5	16:02	Jul 13	00:32	Jul 19	16:42 n	Jul 27	05:11
Aug 4	04:39 A	Aug 11	05:14	Aug 18	02:46 n	Aug 25	22:53
Sep 2	15:51	Sep 9	10:16	Sep 16	15:20	Sep 24	17:20
Oct 2	01:58	Oct 8	17:11	Oct 16	06:38	Oct 24	11:23
Oct 31	11:41	Nov 7	03:10	Nov 15	00:24	Nov 23	03:44
Nov 29	21:42	Dec 6	16:49	Dec 14	19:44	Dec 22	17:21
Dec 29	08:31						

Year            New Moon            First Quarter            Full Moon            Last Quarter  
Delta T

1721  
00h00m

		Jan 5	09:56	Jan 13	15:00 p	Jan 21	04:00
Jan 27	20:13 T	Feb 4	05:37	Feb 12	08:22	Feb 19	12:17
Feb 26	08:42	Mar 6	02:23	Mar 13	22:37	Mar 20	19:12
Mar 27	21:52	Apr 4	22:24	Apr 12	09:41	Apr 19	01:52
Apr 26	11:48	May 4	16:01	May 11	18:20	May 18	09:16
May 26	02:35	Jun 3	06:15	Jun 10	01:38	Jun 16	18:15
Jun 24	17:58	Jul 2	17:05	Jul 9	08:35 t	Jul 16	05:36
Jul 24	09:18 P	Aug 1	01:13	Aug 7	16:05	Aug 14	19:55
Aug 22	23:51	Aug 30	07:45	Sep 6	00:56	Sep 13	13:17
Sep 21	13:10	Sep 28	13:51	Oct 5	11:58	Oct 13	09:00
Oct 21	01:24	Oct 27	20:40	Nov 4	01:57	Nov 12	05:25
Nov 19	12:59	Nov 26	05:12	Dec 3	19:06	Dec 12	00:37
Dec 19	00:17 P	Dec 25	16:16				

1722  
00h00m

				Jan 2	14:32 t	Jan 10	17:06
Jan 17	11:20 P	Jan 24	06:19	Feb 1	10:21	Feb 9	06:12

Feb 15	21:58	Feb 22	23:15	Mar 3	04:30	Mar 10	16:02
Mar 17	08:19	Mar 24	18:05	Apr 1	19:45	Apr 8	23:13
Apr 15	18:55	Apr 23	13:19	May 1	07:59	May 8	04:46
May 15	06:27	May 23	07:24	May 30	17:47	Jun 6	09:58
Jun 13	19:30 P	Jun 21	23:22	Jun 29	01:54 t	Jul 5	16:13
Jul 13	10:01	Jul 21	12:55	Jul 28	09:07	Aug 4	00:55
Aug 12	01:31	Aug 20	00:15	Aug 26	16:19	Sep 2	13:07
Sep 10	17:20	Sep 18	09:42	Sep 25	00:29	Oct 2	05:13
Oct 10	08:56	Oct 17	17:47	Oct 24	10:39	Nov 1	00:39
Nov 8	23:56	Nov 16	01:11	Nov 22	23:39	Nov 30	21:57
Dec 8	13:59 A	Dec 15	08:53	Dec 22	15:35 p	Dec 30	19:09

1723  
00h00m

Jan 7	02:42	Jan 13	17:58	Jan 21	09:40	Jan 29	14:21
Feb 5	13:51	Feb 12	05:17	Feb 20	04:28	Feb 28	06:10
Mar 6	23:36	Mar 13	19:02	Mar 21	22:30	Mar 29	17:57
Apr 5	08:31	Apr 12	10:49	Apr 20	14:44	Apr 28	02:00
May 4	17:24	May 12	03:47	May 20	04:35 n	May 27	07:25
Jun 3	03:03 T	Jun 10	21:10	Jun 18	15:58 n	Jun 25	11:42
Jul 2	14:05	Jul 10	14:16	Jul 18	01:14	Jul 24	16:32
Aug 1	02:52	Aug 9	06:29	Aug 16	09:10	Aug 22	23:26
Aug 30	17:34	Sep 7	21:11	Sep 14	16:50	Sep 21	09:33
Sep 29	10:05	Oct 7	09:55	Oct 14	01:19	Oct 20	23:32
Oct 29	03:47	Nov 5	20:34	Nov 12	11:28 n	Nov 19	17:20
Nov 27	21:27 A	Dec 5	05:30	Dec 11	23:39 n	Dec 19	14:06
Dec 27	13:45						

1724  
00h00m

		Jan 3	13:34	Jan 10	13:46	Jan 18	12:08
Jan 26	03:44	Feb 1	21:43	Feb 9	05:27	Feb 17	09:10
Feb 24	15:18	Mar 2	06:45	Mar 9	22:16	Mar 18	03:05
Mar 25	00:57	Mar 31	17:10	Apr 8	15:29	Apr 16	16:49
Apr 23	09:23	Apr 30	05:14	May 8	08:09 p	May 16	02:29
May 22	17:15 T	May 29	19:08	Jun 6	23:12	Jun 14	09:09
Jun 21	01:18	Jun 28	10:54	Jul 6	12:04	Jul 13	14:09
Jul 20	10:18	Jul 28	04:11	Aug 4	22:54	Aug 11	18:54
Aug 18	21:12	Aug 26	22:09	Sep 3	08:27	Sep 10	00:46
Sep 17	10:49	Sep 25	15:39	Oct 2	17:40	Oct 9	08:58
Oct 17	03:26	Oct 25	07:39	Nov 1	03:19 p	Nov 7	20:32
Nov 15	22:16 A	Nov 23	21:30	Nov 30	13:45	Dec 7	12:01
Dec 15	17:34	Dec 23	09:05	Dec 30	00:59		

1725  
00h00m

						Jan 6	07:10
Jan 14	11:28	Jan 21	18:36	Jan 28	13:07	Feb 5	04:31
Feb 13	02:53	Feb 20	02:34	Feb 27	02:23	Mar 7	01:46
Mar 14	15:37	Mar 21	09:45	Mar 28	16:57	Apr 5	20:47
Apr 13	01:57 P	Apr 19	17:08	Apr 27	08:35 t	May 5	12:23
May 12	10:24 P	May 19	01:46	May 27	00:30	Jun 4	00:29
Jun 10	17:35	Jun 17	12:35	Jun 25	15:49	Jul 3	09:34
Jul 10	00:26	Jul 17	02:09	Jul 25	06:00	Aug 1	16:26
Aug 8	08:04	Aug 15	18:27	Aug 23	19:00	Aug 30	22:06
Sep 6	17:43	Sep 14	12:47	Sep 22	07:06	Sep 29	03:44
Oct 6	06:23 P	Oct 14	08:06	Oct 21	18:35 t	Oct 28	10:43
Nov 4	22:19 P	Nov 13	03:05	Nov 20	05:36	Nov 26	20:21
Dec 4	16:47	Dec 12	20:28	Dec 19	16:17	Dec 26	09:31

Year  
Delta T

New Moon

First Quarter

Full Moon

Last Quarter

1726 00h00m	Jan 3 12:18	Jan 11 11:09	Jan 18 02:49	Jan 25 02:10
	Feb 2 07:14	Feb 9 22:33	Feb 16 13:33	Feb 23 21:12
	Mar 4 00:15	Mar 11 06:51	Mar 18 00:56	Mar 25 17:01
	Apr 2 14:31 A	Apr 9 13:03	Apr 16 13:13 p	Apr 24 12:03
	May 2 01:49	May 8 18:32	May 16 02:27	May 24 05:14
	May 31 10:32	Jun 7 00:47	Jun 14 16:31	Jun 22 19:54
	Jun 29 17:34	Jul 6 08:58	Jul 14 07:17	Jul 22 07:51
	Jul 29 00:09	Aug 4 19:59	Aug 12 22:33	Aug 20 17:14
	Aug 27 07:31	Sep 3 10:13	Sep 11 13:56	Sep 19 00:43
	Sep 25 16:43 T	Oct 3 03:39	Oct 11 04:48 p	Oct 18 07:21
	Oct 25 04:26	Nov 1 23:40	Nov 9 18:37	Nov 16 14:24
	Nov 23 18:54	Dec 1 20:52	Dec 9 07:06	Dec 15 23:01
	Dec 23 11:50	Dec 31 17:10		

1727 00h00m			Jan 7 18:26	Jan 14 09:57
	Jan 22 06:33	Jan 30 10:34	Feb 6 04:59	Feb 12 23:23
	Feb 21 01:46	Feb 28 23:58	Mar 7 15:04 n	Mar 14 15:00
	Mar 22 19:49 A	Mar 30 09:27	Apr 6 00:54 n	Apr 13 08:13
	Apr 21 11:16	Apr 28 16:04	May 5 10:51	May 13 02:14
	May 20 23:33	May 27 21:09	Jun 3 21:24	Jun 11 20:04
	Jun 19 09:08	Jun 26 02:04	Jul 3 09:18	Jul 11 12:40
	Jul 18 17:04	Jul 25 08:09	Aug 1 23:08	Aug 10 03:17
	Aug 17 00:31	Aug 23 16:34	Aug 31 14:55 n	Sep 8 15:41
	Sep 15 08:26 T	Sep 22 04:20	Sep 30 07:57 n	Oct 8 02:07
	Oct 14 17:33	Oct 21 20:07	Oct 30 01:01	Nov 6 11:08
	Nov 13 04:18	Nov 20 15:42	Nov 28 17:00	Dec 5 19:25
	Dec 12 17:06	Dec 20 13:38	Dec 28 07:23	

1728 00h00m				Jan 4 03:38
	Jan 11 08:14	Jan 19 11:27	Jan 26 20:08	Feb 2 12:29
	Feb 10 01:29	Feb 18 06:49	Feb 25 07:18 p	Mar 2 22:38
	Mar 10 19:48 A	Mar 18 22:24	Mar 25 16:57	Apr 1 10:40
	Apr 9 13:35	Apr 17 10:00	Apr 24 01:24	May 1 00:47
	May 9 05:27	May 16 18:13	May 23 09:21	May 30 16:46
	Jun 7 18:55	Jun 14 23:59	Jun 21 17:50	Jun 29 09:54
	Jul 7 06:14	Jul 14 04:31	Jul 21 03:59	Jul 29 03:18
	Aug 5 16:04	Aug 12 09:16	Aug 19 16:40 p	Aug 27 20:09
	Sep 4 01:05 T	Sep 10 15:46	Sep 18 08:00	Sep 26 11:52
	Oct 3 09:55	Oct 10 01:28	Oct 18 01:25	Oct 26 02:01
	Nov 1 19:08	Nov 8 15:20	Nov 16 19:46	Nov 24 14:12
	Dec 1 05:19	Dec 8 09:20	Dec 16 13:49	Dec 24 00:16
	Dec 30 17:02			

1729 00h00m		Jan 7 06:12	Jan 15 06:30	Jan 22 08:36
	Jan 29 06:35 P	Feb 6 03:54	Feb 13 20:59 t	Feb 20 16:04
	Feb 27 21:44 P	Mar 8 00:21	Mar 15 08:49	Mar 21 23:48
	Mar 29 13:50	Apr 6 18:00	Apr 13 18:09	Apr 20 08:48
	Apr 28 06:03	May 6 08:02	May 13 01:44	May 19 19:43
	May 27 21:44	Jun 4 18:22	Jun 11 08:39	Jun 18 08:48
	Jun 26 12:27	Jul 4 01:35	Jul 10 16:06	Jul 18 00:00
	Jul 26 01:56 P	Aug 2 06:51	Aug 9 01:05 t	Aug 16 17:04
	Aug 24 14:02 P	Aug 31 11:39	Sep 7 12:23	Sep 15 11:27
	Sep 23 00:54	Sep 29 17:33	Oct 7 02:23	Oct 15 06:10
	Oct 22 10:59	Oct 29 01:57	Nov 5 19:06	Nov 13 23:52
	Nov 20 20:57	Nov 27 13:45	Dec 5 13:56	Dec 13 15:11
	Dec 20 07:25	Dec 27 05:07		

1730 00h00m			Jan 4 09:33	Jan 12 03:27
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Jan 18	18:39	T	Jan 25	23:30	Feb 3	04:05	p	Feb 10	12:49
Feb 17	06:35		Feb 24	19:43	Mar 4	19:56		Mar 11	20:11
Mar 18	19:09		Mar 26	16:07	Apr 3	08:27		Apr 10	02:39
Apr 17	08:22		Apr 25	10:58	May 2	18:06		May 9	09:19
May 16	22:28		May 25	02:56	Jun 1	01:51		Jun 7	17:09
Jun 15	13:26		Jun 23	15:31	Jun 30	08:50		Jul 7	03:02
Jul 15	04:53	A	Jul 23	01:05	Jul 29	15:58	p	Aug 5	15:41
Aug 13	20:04		Aug 21	08:30	Aug 28	00:05		Sep 4	07:34
Sep 12	10:17		Sep 19	14:54	Sep 26	10:01		Oct 4	02:25
Oct 11	23:19		Oct 18	21:24	Oct 25	22:32		Nov 2	22:57
Nov 10	11:26		Nov 17	05:04	Nov 24	14:11		Dec 2	19:15
Dec 9	23:03		Dec 16	14:46	Dec 24	08:40	n		

Year	New Moon	First Quarter	Full Moon	Last Quarter
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1731				Jan 1 13:25
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00h00m

Jan 8	10:17	T	Jan 15	03:11	Jan 23	04:31	n	Jan 31	04:20
Feb 6	21:04		Feb 13	18:29	Feb 21	23:38		Mar 1	15:45
Mar 8	07:20		Mar 15	12:13	Mar 23	16:19		Mar 31	00:05
Apr 6	17:28		Apr 14	07:09	Apr 22	05:56		Apr 29	06:11
May 6	04:10		May 14	01:47	May 21	16:49		May 28	11:14
Jun 4	16:10		Jun 12	18:51	Jun 20	01:40	p	Jun 26	16:38
Jul 4	05:50	A	Jul 12	09:44	Jul 19	09:17		Jul 25	23:49
Aug 2	20:56		Aug 10	22:24	Aug 17	16:29		Aug 24	10:06
Sep 1	12:49		Sep 9	09:03	Sep 16	00:10		Sep 23	00:15
Oct 1	04:50		Oct 8	18:02	Oct 15	09:20		Oct 22	18:15
Oct 30	20:28		Nov 7	01:55	Nov 13	20:57		Nov 21	14:58
Nov 29	11:18		Dec 6	09:27	Dec 13	11:28	p	Dec 21	12:36
Dec 29	00:53	H							

1732		Jan 4 17:42	Jan 12 04:33	Jan 20 09:06
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00h00m

Jan 27	12:51		Feb 3	03:40	Feb 10	23:01		Feb 19	02:46
Feb 25	23:10		Mar 3	15:56	Mar 11	17:24		Mar 19	16:34
Mar 26	08:13		Apr 2	06:26	Apr 10	10:28		Apr 18	02:22
Apr 24	16:48		May 1	22:35	May 10	01:28		May 17	08:53
May 24	01:45		May 31	15:37	Jun 8	14:04	t	Jun 15	13:29
Jun 22	11:51	P	Jun 30	08:52	Jul 8	00:24		Jul 14	17:48
Jul 21	23:37		Jul 30	01:43	Aug 6	09:01		Aug 12	23:28
Aug 20	13:22		Aug 28	17:31	Sep 4	16:51		Sep 11	07:51
Sep 19	05:08		Sep 27	07:38	Oct 4	00:59		Oct 10	19:54
Oct 18	22:34		Oct 26	19:39	Nov 2	10:24		Nov 9	11:52
Nov 17	16:40	P	Nov 25	05:38	Dec 1	21:38	t	Dec 9	07:20
Dec 17	10:01	P	Dec 24	14:09	Dec 31	10:47			

1733				Jan 8 04:59
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00h00m

Jan 16	01:20		Jan 22	22:07	Jan 30	01:35		Feb 7	02:46
Feb 14	14:04		Feb 21	06:28	Feb 28	17:39		Mar 8	22:23
Mar 16	00:29		Mar 22	15:52	Mar 30	10:30		Apr 7	14:13
Apr 14	09:16		Apr 21	02:44	Apr 29	03:22		May 7	01:50
May 13	17:10	T	May 20	15:22	May 28	19:14	p	Jun 5	09:53
Jun 12	00:54		Jun 19	05:59	Jun 27	09:16		Jul 4	15:36
Jul 11	09:13		Jul 18	22:29	Jul 26	21:12		Aug 2	20:23
Aug 9	19:01		Aug 17	16:20	Aug 25	07:29		Sep 1	01:37
Sep 8	07:13		Sep 16	10:28	Sep 23	17:00		Sep 30	08:35
Oct 7	22:28		Oct 16	03:40	Oct 23	02:36		Oct 29	18:24
Nov 6	16:30	A	Nov 14	18:59	Nov 21	12:47	p	Nov 28	07:53
Dec 6	11:58		Dec 14	07:57	Dec 20	23:40		Dec 28	01:14

1734	Jan 5	06:53	Jan 12	18:34	Jan 19	11:17	Jan 26	21:36
00h00m	Feb 3	23:39	Feb 11	03:13	Feb 17	23:44	Feb 25	19:01
	Mar 5	13:40	Mar 12	10:31	Mar 19	13:22	Mar 27	15:12
	Apr 4	01:03	Apr 10	17:26	Apr 18	04:14 n	Apr 26	08:30
	May 3	10:15 T	May 10	01:02	May 17	19:53 n	May 25	22:20
	Jun 1	17:52	Jun 8	10:23	Jun 16	11:29	Jun 24	08:57
	Jul 1	00:43	Jul 7	22:20	Jul 16	02:19	Jul 23	16:59
	Jul 30	07:48	Aug 6	13:13	Aug 14	16:04	Aug 21	23:18
	Aug 28	16:19	Sep 5	06:43	Sep 13	04:51	Sep 20	04:58
	Sep 27	03:27	Oct 5	01:54	Oct 12	16:54 n	Oct 19	11:15
	Oct 26	17:51 A	Nov 3	21:29	Nov 11	04:23 n	Nov 17	19:28
	Nov 25	11:17	Dec 3	16:07	Dec 10	15:23	Dec 17	06:47
	Dec 25	06:32						

1735			Jan 2	08:28	Jan 9	01:59	Jan 15	21:36
00h00m	Jan 24	01:56	Jan 31	21:37	Feb 7	12:28	Feb 14	15:24
	Feb 22	19:59	Mar 2	07:22	Mar 8	23:16	Mar 16	10:45
	Mar 24	11:37	Mar 31	14:21	Apr 7	10:48 p	Apr 15	06:05
	Apr 23	00:19 H	Apr 29	19:50	May 6	23:16	May 15	00:10
	May 22	10:11	May 29	01:20	Jun 5	12:43	Jun 13	16:10
	Jun 20	17:54	Jun 27	08:13	Jul 5	03:02	Jul 13	05:38
	Jul 20	00:35	Jul 26	17:36	Aug 3	18:08	Aug 11	16:30
	Aug 18	07:29	Aug 25	06:08	Sep 2	09:42	Sep 10	01:07
	Sep 16	15:45	Sep 23	22:02	Oct 2	01:11 p	Oct 9	08:17
	Oct 16	02:16 H	Oct 23	17:01	Oct 31	15:53	Nov 7	15:10
	Nov 14	15:26	Nov 22	14:02	Nov 30	05:17	Dec 6	22:57
	Dec 14	07:12	Dec 22	11:15	Dec 29	17:17		

Year            New Moon            First Quarter            Full Moon            Last Quarter  
Delta T

1736							Jan 5	08:37
00h00m	Jan 13	01:05	Jan 21	06:26	Jan 28	04:10	Feb 3	20:37
	Feb 11	20:06	Feb 19	21:55	Feb 26	14:20	Mar 4	10:54
	Mar 12	14:48 P	Mar 20	09:15	Mar 27	00:04 t	Apr 3	03:04
	Apr 11	07:34 P	Apr 18	17:05	Apr 25	09:40	May 2	20:29
	May 10	21:22	May 17	22:40	May 24	19:35	Jun 1	14:22
	Jun 9	08:12	Jun 16	03:25	Jun 23	06:33	Jul 1	07:42
	Jul 8	16:52	Jul 15	08:41	Jul 22	19:16	Jul 30	23:33
	Aug 7	00:32	Aug 13	15:44	Aug 21	10:08	Aug 29	13:21
	Sep 5	08:17 P	Sep 12	01:41	Sep 20	02:51 t	Sep 28	01:03
	Oct 4	16:53 P	Oct 11	15:27	Oct 19	20:19	Oct 27	11:01
	Nov 3	02:54	Nov 10	09:18	Nov 18	13:13	Nov 25	19:49
	Dec 2	14:42	Dec 10	06:23	Dec 18	04:39	Dec 25	04:04

1737	Jan 1	04:36	Jan 9	04:37	Jan 16	18:18	Jan 23	12:26
00h00m	Jan 30	20:43	Feb 8	01:27	Feb 15	06:13	Feb 21	21:39
	Mar 1	14:27 A	Mar 9	18:59	Mar 16	16:29 p	Mar 23	08:23
	Mar 31	08:28	Apr 8	08:31	Apr 15	01:17	Apr 21	21:05
	Apr 30	01:15	May 7	18:19	May 14	09:11	May 21	11:53
	May 29	15:52	Jun 6	01:11	Jun 12	17:05	Jun 20	04:21
	Jun 28	04:14	Jul 5	06:11	Jul 12	02:10	Jul 19	21:42
	Jul 27	14:52	Aug 3	10:41	Aug 10	13:27	Aug 18	15:05
	Aug 26	00:24 T	Sep 1	16:09	Sep 9	03:32 p	Sep 17	07:44
	Sep 24	09:29	Oct 1	00:07	Oct 8	20:10	Oct 16	23:04
	Oct 23	18:38	Oct 30	11:52	Nov 7	14:23	Nov 15	12:36

Nov 22 04:24	Nov 29 03:53	Dec 7 08:55	Dec 14 23:57
Dec 21 15:21	Dec 28 23:29		

1738  
00h00m

Jan 20 03:52	Jan 27 20:56	Feb 4 18:15 n	Feb 11 16:51
Feb 18 18:04 A	Feb 26 18:07	Mar 6 07:23 n	Mar 13 00:07
Mar 20 09:30	Mar 28 13:13	Apr 4 17:47	Apr 11 08:05
Apr 19 01:29	Apr 27 05:04	May 4 01:59	May 10 17:40
May 18 17:18	May 26 17:14	Jun 2 08:58	Jun 9 05:23
Jun 17 08:28	Jun 25 02:00	Jul 1 15:56	Jul 8 19:22
Jul 16 22:40	Jul 24 08:13	Jul 31 00:00 n	Aug 7 11:30
Aug 15 11:40 A	Aug 22 13:12	Aug 29 10:05 n	Sep 6 05:26
Sep 13 23:23	Sep 20 18:29	Sep 27 22:46	Oct 6 00:24
Oct 13 10:03	Oct 20 01:35	Oct 27 14:16	Nov 4 19:06
Nov 11 20:13	Nov 18 11:39	Nov 26 08:16	Dec 4 12:03
Dec 11 06:31	Dec 18 01:12	Dec 26 03:46	

1739  
00h00m

Jan 9 17:21	Jan 16 18:03	Jan 24 23:07 p	Feb 1 12:52
Feb 8 04:50 T	Feb 15 13:18	Feb 23 16:25	Mar 2 21:03
Mar 9 16:51	Mar 17 09:35	Mar 25 06:33	Apr 1 03:40
Apr 8 05:26	Apr 16 05:14	Apr 23 17:26	Apr 30 09:54
May 7 18:47	May 15 22:41	May 23 01:55	May 29 16:48
Jun 6 09:07	Jun 14 13:02	Jun 21 09:07	Jun 28 01:20
Jul 6 00:20	Jul 14 00:11	Jul 20 16:04 t	Jul 27 12:22
Aug 4 15:50 A	Aug 12 08:46	Aug 18 23:39	Aug 26 02:34
Sep 3 06:50	Sep 10 15:47	Sep 17 08:39	Sep 24 20:06
Oct 2 20:45	Oct 9 22:19	Oct 16 19:53	Oct 24 16:12
Nov 1 09:34	Nov 8 05:26	Nov 15 10:00	Nov 23 13:07
Nov 30 21:36	Dec 7 14:03	Dec 15 03:11	Dec 23 08:45
Dec 30 09:08 P			

1740  
00h00m

	Jan 6 00:58	Jan 13 22:33 t	Jan 22 01:31
Jan 28 20:09 P	Feb 4 14:37	Feb 12 18:13	Feb 20 14:42
Feb 27 06:30	Mar 5 06:57	Mar 13 12:09	Mar 21 00:27
Mar 27 16:24	Apr 4 01:08	Apr 12 03:12	Apr 19 07:26
Apr 26 02:27	May 3 19:51	May 11 15:19	May 18 12:43
May 25 13:28	Jun 2 13:43	Jun 10 01:06	Jun 16 17:37
Jun 24 02:07 P	Jul 2 05:48	Jul 9 09:17 t	Jul 15 23:37
Jul 23 16:29	Jul 31 19:45	Aug 7 16:40	Aug 14 08:07
Aug 22 08:09	Aug 30 07:40	Sep 6 00:07	Sep 12 20:16
Sep 21 00:24	Sep 28 17:46	Oct 5 08:34	Oct 12 12:28
Oct 20 16:34	Oct 28 02:24	Nov 3 18:58	Nov 11 08:07
Nov 19 08:07	Nov 26 10:10	Dec 3 08:03	Dec 11 05:40
Dec 18 22:34 A	Dec 25 17:58		

Year	New Moon	First Quarter	Full Moon	Last Quarter
Delta T				

1741  
00h00m

			Jan 1 23:54 p	Jan 10 03:04
Jan 17 11:27	Jan 24 02:52	Jan 31 17:42	Feb 8 22:22	
Feb 15 22:31	Feb 22 13:42	Mar 2 12:07	Mar 10 14:10	
Mar 17 07:58	Mar 24 02:48	Apr 1 05:46	Apr 9 01:53	
Apr 15 16:29	Apr 22 17:51	Apr 30 21:45	May 8 09:52	
May 15 00:55	May 22 10:15	May 30 11:31	Jun 6 15:13	
Jun 13 10:10 T	Jun 21 03:20	Jun 28 23:00 n	Jul 5 19:27	
Jul 12 20:56	Jul 20 20:30	Jul 28 08:31	Aug 4 00:14	

Aug 11	09:38	Aug 19	13:07	Aug 26	16:47	Sep 2	07:06
Sep 10	00:29	Sep 18	04:29	Sep 25	00:50	Oct 1	17:15
Oct 9	17:20	Oct 17	17:56	Oct 24	09:41	Oct 31	07:18
Nov 8	11:29	Nov 16	05:12	Nov 22	20:05 n	Nov 30	01:09
Dec 8	05:37 A	Dec 15	14:32	Dec 22	08:19 n	Dec 29	21:55

1742 00h00m	Jan 6	22:13	Jan 13	22:42	Jan 20	22:13	Jan 28	19:52
	Feb 5	12:17	Feb 12	06:39	Feb 19	13:29	Feb 27	16:45
	Mar 6	23:43	Mar 13	15:13	Mar 21	05:45	Mar 29	10:32
	Apr 5	09:05	Apr 12	01:00	Apr 19	22:28	Apr 28	00:13
	May 4	17:11	May 11	12:23	May 19	14:48 p	May 27	09:57
	Jun 3	00:45 T	Jun 10	01:43	Jun 18	05:48	Jun 25	16:44
	Jul 2	08:34	Jul 9	17:09	Jul 17	18:53	Jul 24	21:54
	Jul 31	17:28	Aug 8	10:26	Aug 16	06:07	Aug 23	02:51
	Aug 30	04:22	Sep 7	04:46	Sep 14	16:08	Sep 21	08:53
	Sep 28	18:07	Oct 6	22:54	Oct 14	01:51	Oct 20	17:13
	Oct 28	10:59	Nov 5	15:35	Nov 12	11:54 p	Nov 19	04:48
	Nov 27	06:07 A	Dec 5	06:03	Dec 11	22:33	Dec 18	20:12
	Dec 27	01:40						

1743 00h00m			Jan 3	17:59	Jan 10	09:47	Jan 17	15:06
	Jan 25	19:42	Feb 2	03:36	Feb 8	21:38	Feb 16	12:06
	Feb 24	11:05	Mar 3	11:22	Mar 10	10:23	Mar 18	08:58
	Mar 25	23:40	Apr 1	18:09	Apr 9	00:21	Apr 17	03:44
	Apr 24	09:47 P	May 1	01:01	May 8	15:24 t	May 16	19:17
	May 23	18:01 P	May 30	09:05	Jun 7	06:58	Jun 15	07:31
	Jun 22	01:04	Jun 28	19:25	Jul 6	22:15	Jul 14	16:54
	Jul 21	07:52	Jul 28	08:41	Aug 5	12:40	Aug 13	00:10
	Aug 19	15:33	Aug 27	00:57	Sep 4	02:09	Sep 11	06:13
	Sep 18	01:19	Sep 25	19:35	Oct 3	14:50	Oct 10	12:12
	Oct 17	14:08 P	Oct 25	15:23	Nov 2	02:52 t	Nov 8	19:23
	Nov 16	06:13 P	Nov 24	10:57	Dec 1	14:18	Dec 8	05:03
	Dec 16	00:48	Dec 24	04:49	Dec 31	01:10		

1744 00h00m						Jan 6	18:01	
	Jan 14	20:19	Jan 22	19:46	Jan 29	11:36	Feb 5	10:14
	Feb 13	15:10	Feb 21	07:13	Feb 27	22:01	Mar 6	04:43
	Mar 14	08:01	Mar 21	15:23	Mar 28	08:53	Apr 4	23:58
	Apr 12	22:08 A	Apr 19	21:18	Apr 26	20:35 p	May 4	18:37
	May 12	09:18	May 19	02:26	May 26	09:17	Jun 3	11:41
	Jun 10	17:57	Jun 17	08:17	Jun 24	23:01	Jul 3	02:33
	Jul 10	01:02	Jul 16	16:08	Jul 24	13:44	Aug 1	14:55
	Aug 8	07:44	Aug 15	02:56	Aug 23	05:14	Aug 31	00:52
	Sep 6	15:17	Sep 13	17:10	Sep 21	21:05	Sep 29	08:56
	Oct 6	00:43 T	Oct 13	10:47	Oct 21	12:35 p	Oct 28	16:03
	Nov 4	12:38	Nov 12	07:07	Nov 20	02:57	Nov 26	23:22
	Dec 4	03:10	Dec 12	04:40	Dec 19	15:48	Dec 26	08:01

1745 00h00m	Jan 2	20:01	Jan 11	01:15	Jan 18	03:15	Jan 24	18:41
	Feb 1	14:30	Feb 9	18:47	Feb 16	13:39	Feb 23	07:36
	Mar 3	09:24	Mar 11	08:10	Mar 17	23:23 n	Mar 24	22:32
	Apr 2	03:09 A	Apr 9	17:35	Apr 16	08:46 n	Apr 23	15:04
	May 1	18:25	May 9	00:03	May 15	18:14	May 23	08:35
	May 31	06:40	Jun 7	04:58	Jun 14	04:22	Jun 22	02:15
	Jun 29	16:20	Jul 6	09:44	Jul 13	16:00	Jul 21	19:03
	Jul 29	00:28	Aug 4	15:42	Aug 12	05:46	Aug 20	10:10
	Aug 27	08:12	Sep 3	00:02	Sep 10	21:46 n	Sep 18	23:14
	Sep 25	16:28 T	Oct 2	11:49	Oct 10	15:14 n	Oct 18	10:21
	Oct 25	01:53	Nov 1	03:41	Nov 9	08:50	Nov 16	19:56

Nov 23 12:50	Nov 30 23:24	Dec 9 01:18	Dec 16 04:31
Dec 23 01:39	Dec 30 21:25		

Year Delta T	New Moon	First Quarter	Full Moon	Last Quarter
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1746 00h00m			Jan 7 15:59	Jan 14 12:45
	Jan 21 16:33	Jan 29 19:15	Feb 6 04:46	Feb 12 21:18
	Feb 20 09:23	Feb 28 14:34	Mar 7 15:45 p	Mar 14 06:55
	Mar 22 03:12 A	Mar 30 06:04	Apr 6 01:05	Apr 12 18:15
	Apr 20 20:33	Apr 28 17:38	May 5 09:10	May 12 07:40
	May 20 12:12	May 28 01:52	Jun 3 16:46	Jun 10 23:07
	Jun 19 01:41	Jun 26 07:41	Jul 3 00:59	Jul 10 16:03
	Jul 18 13:13	Jul 25 12:18	Aug 1 10:59	Aug 9 09:36
	Aug 16 23:25	Aug 23 17:09	Aug 30 23:39 p	Sep 8 02:56
	Sep 15 08:53 T	Sep 21 23:44	Sep 29 15:11	Oct 7 19:21
	Oct 14 18:09	Oct 21 09:30	Oct 29 08:56	Nov 6 10:12
	Nov 13 03:43	Nov 19 23:24	Nov 28 03:39	Dec 5 22:56
	Dec 12 14:05	Dec 19 17:20	Dec 27 22:02	

1747 00h00m				Jan 4 09:19
	Jan 11 01:45	Jan 18 14:01	Jan 26 14:52	Feb 2 17:39
	Feb 9 14:57 P	Feb 17 11:27	Feb 25 05:19 t	Mar 4 00:50
	Mar 11 05:35 P	Mar 19 07:38	Mar 26 16:57	Apr 2 08:05
	Apr 9 21:05	Apr 18 01:08	Apr 25 02:02	May 1 16:28
	May 9 12:48	May 17 15:09	May 24 09:22	May 31 02:46
	Jun 8 04:13	Jun 16 01:38	Jun 22 16:06	Jun 29 15:23
	Jul 7 18:58	Jul 15 09:07	Jul 21 23:26	Jul 29 06:22
	Aug 6 08:45 P	Aug 13 14:42	Aug 20 08:26 t	Aug 27 23:31
	Sep 4 21:21 P	Sep 11 19:47	Sep 18 19:49	Sep 26 18:17
	Oct 4 08:47	Oct 11 01:56	Oct 18 10:00	Oct 26 13:37
	Nov 2 19:22	Nov 9 10:28	Nov 17 02:55	Nov 25 07:56
	Dec 2 05:42	Dec 8 22:15	Dec 16 21:55	Dec 24 23:45
	Dec 31 16:18			

1748 00h00m		Jan 7 13:24	Jan 15 17:37	Jan 23 12:15
	Jan 30 03:23 T	Feb 6 07:23	Feb 14 12:07 p	Feb 21 21:37
	Feb 28 14:57	Mar 7 03:06	Mar 15 03:51	Mar 22 04:45
	Mar 29 02:57	Apr 5 23:02	Apr 13 16:12	Apr 20 10:51
	Apr 27 15:35	May 5 17:37	May 13 01:41	May 19 17:04
	May 27 05:10	Jun 4 09:35	Jun 11 09:21	Jun 18 00:27
	Jun 25 19:51	Jul 3 22:25	Jul 10 16:18	Jul 17 09:58
	Jul 25 11:19 A	Aug 2 08:25	Aug 8 23:30 p	Aug 15 22:26
	Aug 24 02:50	Aug 31 16:20	Sep 7 07:47	Sep 14 14:21
	Sep 22 17:37	Sep 29 23:13	Oct 6 17:55	Oct 14 09:29
	Oct 22 07:15	Oct 29 06:07	Nov 5 06:36	Nov 13 06:27
	Nov 20 19:54	Nov 27 13:58	Dec 4 22:19	Dec 13 03:12
	Dec 20 07:50	Dec 26 23:37		

1749 00h00m			Jan 3 16:45 n	Jan 11 21:41
	Jan 18 19:08 T	Jan 25 11:42	Feb 2 12:26 n	Feb 10 12:45
	Feb 17 05:43	Feb 24 02:28	Mar 4 07:19	Mar 12 00:09
	Mar 18 15:36	Mar 25 19:31	Apr 2 23:47	Apr 10 08:20
	Apr 17 01:13	Apr 24 13:51	May 2 13:15	May 9 14:13
	May 16 11:23	May 24 08:07	Jun 1 00:04	Jun 7 19:01
	Jun 14 22:57	Jun 23 01:09	Jun 30 08:59 p	Jul 7 00:10
	Jul 14 12:22 A	Jul 22 16:20	Jul 29 16:46 n	Aug 5 07:09

Aug 13	03:29	Aug 21	05:32	Aug 28	00:12	Sep 3	17:20
Sep 11	19:42	Sep 19	16:49	Sep 26	08:11	Oct 3	07:32
Oct 11	12:14	Oct 19	02:27	Oct 25	17:37	Nov 2	01:41
Nov 10	04:27	Nov 17	10:47	Nov 24	05:23	Dec 1	22:37
Dec 9	19:45	Dec 16	18:33	Dec 23	19:52 p	Dec 31	20:26

1750	Jan 8	09:35 H	Jan 15	02:44	Jan 22	12:43	Jan 30	17:02
00h00m	Feb 6	21:33	Feb 13	12:20	Feb 21	06:48	Mar 1	10:42
	Mar 8	07:38	Mar 14	23:59	Mar 23	00:46	Mar 31	00:27
	Apr 6	16:20	Apr 13	13:46	Apr 21	17:31	Apr 29	10:11
	May 6	00:29	May 13	05:15	May 21	08:21	May 28	16:40
	Jun 4	09:02	Jun 11	21:52	Jun 19	21:00 t	Jun 26	21:15
	Jul 3	18:49 A	Jul 11	15:01	Jul 19	07:33	Jul 26	01:33
	Aug 2	06:26	Aug 10	08:09	Aug 17	16:30	Aug 24	07:13
	Aug 31	20:14	Sep 9	00:31	Sep 16	00:44	Sep 22	15:37
	Sep 30	12:16	Oct 8	15:20	Oct 15	09:15	Oct 22	03:43
	Oct 30	06:06	Nov 7	04:03	Nov 13	18:58	Nov 20	19:44
	Nov 29	00:40 P	Dec 6	14:31	Dec 13	06:20 t	Dec 20	15:12
	Dec 28	18:22 P						

Year	New Moon	First Quarter	Full Moon	Last Quarter
Delta T				

1751		Jan 4	23:16	Jan 11	19:22	Jan 19	12:45	
00h00m	Jan 27	09:50	Feb 3	07:10	Feb 10	09:49	Feb 18	10:21
	Feb 25	22:30	Mar 4	15:09	Mar 12	01:21	Mar 20	05:49
	Mar 27	08:42	Apr 2	23:58	Apr 10	17:39	Apr 18	21:33
	Apr 25	17:11	May 2	10:10	May 10	10:05	May 18	09:11
	May 25	00:47 T	May 31	22:11	Jun 9	01:47 p	Jun 16	17:22
	Jun 23	08:16	Jun 30	12:21	Jul 8	15:56	Jul 15	23:17
	Jul 22	16:27	Jul 30	04:43	Aug 7	04:12	Aug 14	04:17
	Aug 21	02:14	Aug 28	22:47	Sep 5	14:58	Sep 12	09:43
	Sep 19	14:31	Sep 27	17:26	Oct 5	01:00	Oct 11	16:51
	Oct 19	05:57	Oct 27	11:19	Nov 3	11:03	Nov 10	02:44
	Nov 18	00:15 A	Nov 26	03:17	Dec 2	21:32 p	Dec 9	16:11
	Dec 17	19:59	Dec 25	16:42				

1752				Jan 1	08:31	Jan 8	09:19	
00h00m	Jan 16	15:03	Jan 24	03:32	Jan 30	19:56	Feb 7	05:20
	Feb 15	07:50	Feb 22	12:06	Feb 29	07:58	Mar 8	02:20
	Mar 15	21:43	Mar 22	19:06	Mar 29	21:01	Apr 6	22:10
	Apr 14	08:54	Apr 21	01:33	Apr 28	11:16	May 6	15:19
	May 13	17:55 T	May 20	08:36	May 28	02:27 n	Jun 5	05:13
	Jun 12	01:23	Jun 18	17:26	Jun 26	17:53	Jul 4	16:05
	Jul 11	08:10	Jul 18	05:00	Jul 26	08:51	Aug 3	00:31
	Aug 9	15:17	Aug 16	19:45	Aug 24	23:00	Sep 1	07:17
	Sep 7	23:55	Sep 15	13:24	Sep 23	12:20	Sep 30	13:21
	Oct 7	11:12	Oct 15	08:59	Oct 23	00:58 n	Oct 29	19:54
	Nov 6	01:46 A	Nov 14	05:07	Nov 21	12:57 n	Nov 28	04:14
	Dec 5	19:18	Dec 14	00:15	Dec 21	00:13	Dec 27	15:26

1753	Jan 4	14:34	Jan 12	16:57	Jan 19	10:50	Jan 26	05:55
00h00m	Feb 3	09:53	Feb 11	06:14	Feb 17	21:04	Feb 24	23:09
	Mar 5	03:46	Mar 12	15:55	Mar 19	07:26	Mar 26	17:54
	Apr 3	19:13	Apr 10	22:41	Apr 17	18:24 p	Apr 25	12:45
	May 3	07:47 H	May 10	03:52	May 17	06:19	May 25	06:35
	Jun 1	17:34	Jun 8	09:00	Jun 15	19:20	Jun 23	22:39

Jul 1	01:19	Jul 7	15:34	Jul 15	09:29	Jul 23	12:28
Jul 30	08:07	Aug 6	00:41	Aug 14	00:41	Aug 21	23:53
Aug 28	15:12	Sep 4	13:08	Sep 12	16:39	Sep 20	09:06
Sep 26	23:43	Oct 4	05:08	Oct 12	08:43 p	Oct 19	16:49
Oct 26	10:27 H	Nov 3	00:22	Nov 11	00:01	Nov 18	00:05
Nov 24	23:45	Dec 2	21:43	Dec 10	13:51	Dec 17	08:00
Dec 24	15:29						

1754		Jan 1	19:12	Jan 9	02:04	Jan 15	17:31
00h00m							
Jan 23	09:09	Jan 31	14:32	Feb 7	12:55	Feb 14	05:05
Feb 22	03:51	Mar 2	06:04	Mar 8	22:48	Mar 15	18:44
Mar 23	22:12 P	Mar 31	17:21	Apr 7	08:07 t	Apr 14	10:10
Apr 22	14:42 P	Apr 30	01:05	May 6	17:14	May 14	03:00
May 22	04:25	May 29	06:32	Jun 5	02:44	Jun 12	20:33
Jun 20	15:18	Jun 27	11:09	Jul 4	13:22	Jul 12	13:56
Jul 20	00:10	Jul 26	16:19	Aug 3	01:56	Aug 11	06:10
Aug 18	08:07	Aug 24	23:17	Sep 1	16:55	Sep 9	20:36
Sep 16	16:12 P	Sep 23	09:14	Oct 1	09:58 t	Oct 9	09:00
Oct 16	01:09 P	Oct 22	23:03	Oct 31	03:56	Nov 7	19:36
Nov 14	11:26	Nov 21	17:00	Nov 29	21:21	Dec 7	04:49
Dec 13	23:18	Dec 21	14:10	Dec 29	13:08		

1755						Jan 5	13:13
00h00m							
Jan 12	13:04	Jan 20	12:24	Jan 28	02:55	Feb 3	21:25
Feb 11	04:48	Feb 19	09:10	Feb 26	14:43	Mar 5	06:12
Mar 12	22:01 A	Mar 21	02:36	Mar 28	00:43 p	Apr 3	16:16
Apr 11	15:33	Apr 19	16:05	Apr 26	09:11	May 3	04:16
May 11	08:01	May 19	01:53	May 25	16:44	Jun 1	18:27
Jun 9	22:33	Jun 17	08:49	Jun 24	00:22	Jul 1	10:33
Jul 9	11:05	Jul 16	13:56	Jul 23	09:15	Jul 31	03:55
Aug 7	22:02	Aug 14	18:33	Aug 21	20:29	Aug 29	21:38
Sep 6	08:01 T	Sep 13	00:08	Sep 20	10:41 p	Sep 28	14:54
Oct 5	17:34	Oct 12	08:12	Oct 20	03:35	Oct 28	06:57
Nov 4	03:07	Nov 10	20:00	Nov 18	22:09	Nov 26	21:07
Dec 3	13:09	Dec 10	11:58	Dec 18	17:01	Dec 26	08:53

Year	New Moon	First Quarter	Full Moon	Last Quarter
Delta T				

1756	Jan 2	00:08	Jan 9	07:25	Jan 17	10:50	Jan 24	18:13
00h00m								
Jan 31	12:25	Feb 8	04:36	Feb 16	02:34 n	Feb 23	01:45	
Mar 1	02:09 A	Mar 9	01:28	Mar 16	15:33 n	Mar 23	08:37	
Mar 30	16:59	Apr 7	20:19	Apr 15	01:44	Apr 21	16:02	
Apr 29	08:24	May 7	12:05	May 14	09:42	May 21	01:00	
May 28	23:50	Jun 6	00:22	Jun 12	16:29	Jun 19	12:10	
Jun 27	14:55	Jul 5	09:22	Jul 11	23:20	Jul 19	01:49	
Jul 27	05:19	Aug 3	15:55	Aug 10	07:22 n	Aug 17	17:55	
Aug 25	18:45 A	Sep 1	21:15	Sep 8	17:32 n	Sep 16	12:07	
Sep 24	07:02	Oct 1	02:50	Oct 8	06:23	Oct 16	07:35	
Oct 23	18:15	Oct 30	10:08	Nov 6	22:04	Nov 15	02:55	
Nov 22	04:51	Nov 28	20:15	Dec 6	16:13	Dec 14	20:24	
Dec 21	15:23	Dec 28	09:40					

1757				Jan 5	11:48	Jan 13	10:45
00h00m							
Jan 20	02:11	Jan 27	02:09	Feb 4	07:08 p	Feb 11	21:39
Feb 18	13:22 T	Feb 25	20:54	Mar 6	00:20	Mar 13	05:42
Mar 20	00:53	Mar 27	16:39	Apr 4	14:18	Apr 11	12:01

Apr 18	12:53	Apr 26	11:54	May 4	01:02	May 10	17:50
May 18	01:40	May 26	05:14	Jun 2	09:24	Jun 9	00:18
Jun 16	15:37	Jun 24	19:44	Jul 1	16:34	Jul 8	08:27
Jul 16	06:44	Jul 24	07:17	Jul 30	23:35 p	Aug 6	19:14
Aug 14	22:27 A	Aug 22	16:23	Aug 29	07:19	Sep 5	09:23
Sep 13	13:55	Sep 20	23:56	Sep 27	16:32	Oct 5	03:05
Oct 13	04:26	Oct 20	06:55	Oct 27	03:57	Nov 3	23:33
Nov 11	17:50	Nov 18	14:19	Nov 25	18:10	Dec 3	20:53
Dec 11	06:17	Dec 17	23:00	Dec 25	11:20		

1758  
00h00m

						Jan 2	16:53
Jan 9	17:59 P	Jan 16	09:42	Jan 24	06:33 t	Feb 1	09:50
Feb 8	04:54 P	Feb 14	22:52	Feb 23	01:57	Mar 2	23:03
Mar 9	14:56	Mar 16	14:32	Mar 24	19:38	Apr 1	08:42
Apr 8	00:21	Apr 15	08:04	Apr 23	10:30	Apr 30	15:31
May 7	09:53	May 15	02:17	May 22	22:32	May 29	20:36
Jun 5	20:26	Jun 13	19:57	Jun 21	08:20	Jun 28	01:17
Jul 5	08:45 P	Jul 13	12:12	Jul 20	16:40 t	Jul 27	07:05
Aug 3	23:02	Aug 12	02:37	Aug 19	00:18	Aug 25	15:28
Sep 2	14:53	Sep 10	15:09	Sep 17	08:03	Sep 24	03:35
Oct 2	07:35	Oct 10	01:55	Oct 16	16:47	Oct 23	19:53
Nov 1	00:18	Nov 8	11:07	Nov 15	03:24	Nov 22	15:44
Nov 30	16:23	Dec 7	19:13	Dec 14	16:33	Dec 22	13:27
Dec 30	07:11 A						

1759  
00h00m

		Jan 6	03:05	Jan 13	08:13 p	Jan 21	10:56
Jan 28	20:10	Feb 4	11:44	Feb 12	01:40	Feb 20	06:14
Feb 27	07:05	Mar 5	22:03	Mar 13	19:37	Mar 21	21:59
Mar 28	16:13	Apr 4	10:27	Apr 12	12:53	Apr 20	09:40
Apr 27	00:19	May 4	00:48	May 12	04:37	May 19	17:37
May 26	08:22	Jun 2	16:39	Jun 10	18:22	Jun 17	22:58
Jun 24	17:17 T	Jul 2	09:29	Jul 10	06:01 n	Jul 17	03:13
Jul 24	03:50	Aug 1	02:46	Aug 8	15:50	Aug 15	08:01
Aug 22	16:31	Aug 30	19:50	Sep 7	00:31	Sep 13	14:56
Sep 21	07:32	Sep 29	11:52	Oct 6	08:59	Oct 13	01:08
Oct 21	00:44	Oct 29	02:03	Nov 4	18:11	Nov 11	15:14
Nov 19	19:19	Nov 27	13:54	Dec 4	04:48 n	Dec 11	09:05
Dec 19	13:49 A	Dec 26	23:35				

1760  
00h00m

				Jan 2	17:00 n	Jan 10	05:44
Jan 18	06:38	Jan 25	07:49	Feb 1	06:38	Feb 9	03:30
Feb 16	20:43	Feb 23	15:31	Mar 1	21:25	Mar 10	00:10
Mar 17	07:59	Mar 23	23:35	Mar 31	13:06	Apr 8	17:49
Apr 15	17:05	Apr 22	08:44	Apr 30	05:18	May 8	07:28
May 15	00:53	May 21	19:28	May 29	21:21 p	Jun 6	17:19
Jun 13	08:13 T	Jun 20	08:16	Jun 28	12:21	Jul 6	00:18
Jul 12	15:53	Jul 19	23:26	Jul 28	01:42	Aug 4	05:43
Aug 11	00:43	Aug 18	16:47	Aug 26	13:23	Sep 2	10:54
Sep 9	11:41	Sep 17	11:30	Sep 24	23:56	Oct 1	17:09
Oct 9	01:35	Oct 17	06:15	Oct 24	10:09	Oct 31	01:36
Nov 7	18:41	Nov 15	23:37	Nov 22	20:35 p	Nov 29	13:12
Dec 7	14:02 A	Dec 15	14:37	Dec 22	07:24	Dec 29	04:27

Year  
Delta T

	New Moon	First Quarter	Full Moon	Last Quarter
1761 00h00m	Jan 6 09:46	Jan 14 02:51	Jan 20 18:33	Jan 27 23:01



Feb 5	03:51	Feb 12	12:30	Feb 19	06:03	Feb 26	19:34
Mar 6	19:09	Mar 13	20:04	Mar 20	18:16	Mar 28	16:01
Apr 5	07:33	Apr 12	02:27	Apr 19	07:37	Apr 27	10:31
May 4	17:28 P	May 11	08:49	May 18	22:08 t	May 27	02:02
Jun 3	01:33 P	Jun 9	16:22	Jun 17	13:24	Jun 25	14:28
Jul 2	08:32	Jul 9	02:16	Jul 17	04:40	Jul 25	00:14
Jul 31	15:22	Aug 7	15:18	Aug 15	19:24	Aug 23	07:57
Aug 29	23:09	Sep 6	07:36	Sep 14	09:24	Sep 21	14:28
Sep 28	09:04	Oct 6	02:31	Oct 13	22:40	Oct 20	20:48
Oct 27	22:03	Nov 4	22:48	Nov 12	11:15 t	Nov 19	04:11
Nov 26	14:16 P	Dec 4	18:53	Dec 11	23:04	Dec 18	13:50
Dec 26	08:52						

1762		Jan 3	13:08	Jan 10	10:02	Jan 17	02:32
00h00m							
Jan 25	04:18	Feb 2	04:18	Feb 8	20:20	Feb 15	18:16
Feb 23	22:58	Mar 3	15:45	Mar 10	06:22	Mar 17	12:07
Mar 25	15:38	Apr 1	23:46	Apr 8	16:43	Apr 16	06:46
Apr 24	05:34 A	May 1	05:26	May 8	03:51 p	May 16	01:03
May 23	16:39	May 30	10:15	Jun 6	16:05	Jun 14	18:03
Jun 22	01:19	Jun 28	15:47	Jul 6	05:32	Jul 14	09:10
Jul 21	08:30	Jul 27	23:23	Aug 4	20:14	Aug 12	22:02
Aug 19	15:23	Aug 26	10:02	Sep 3	12:01	Sep 11	08:36
Sep 17	23:11	Sep 25	00:17	Oct 3	04:23	Oct 10	17:16
Oct 17	08:52 T	Oct 24	18:04	Nov 1	20:28 p	Nov 9	00:51
Nov 15	20:58	Nov 23	14:41	Dec 1	11:21	Dec 8	08:26
Dec 15	11:31	Dec 23	12:30	Dec 31	00:31		

1763						Jan 6	17:02
00h00m							
Jan 14	04:13	Jan 22	09:16	Jan 29	12:01	Feb 5	03:23
Feb 12	22:22	Feb 21	02:51	Feb 27	22:14	Mar 6	15:43
Mar 14	16:53	Mar 22	16:13	Mar 29	07:36 n	Apr 5	05:57
Apr 13	10:19 A	Apr 21	01:33	Apr 27	16:32 n	May 4	21:48
May 13	01:25	May 20	07:56	May 27	01:33	Jun 3	14:52
Jun 11	13:40	Jun 18	12:45	Jun 25	11:20	Jul 3	08:24
Jul 10	23:30	Jul 17	17:26	Jul 24	22:45	Aug 2	01:27
Aug 9	07:55	Aug 15	23:20	Aug 23	12:31	Aug 31	17:07
Sep 7	15:59	Sep 14	07:40	Sep 22	04:45 n	Sep 30	06:53
Oct 7	00:37 T	Oct 13	19:29	Oct 21	22:40 n	Oct 29	18:41
Nov 5	10:21	Nov 12	11:25	Nov 20	16:46	Nov 28	04:47
Dec 4	21:29	Dec 12	07:12	Dec 20	09:39	Dec 27	13:39

1764		Jan 3	10:14	Jan 11	05:12	Jan 19	00:33	Jan 25	21:50
00h00m									
Feb 2	00:50	Feb 10	02:57	Feb 17	13:19	Feb 24	06:03		
Mar 2	17:10	Mar 10	22:08	Mar 18	00:05 p	Mar 24	15:06		
Apr 1	10:27 A	Apr 9	13:34	Apr 16	09:06	Apr 23	01:44		
May 1	03:23	May 9	01:08	May 15	16:50	May 22	14:30		
May 30	18:51	Jun 7	09:25	Jun 14	00:09	Jun 21	05:28		
Jun 29	08:24	Jul 6	15:22	Jul 13	08:10	Jul 20	22:14		
Jul 28	20:13	Aug 4	20:09	Aug 11	18:05	Aug 19	15:59		
Aug 27	06:50	Sep 3	01:08	Sep 10	06:48 p	Sep 18	09:50		
Sep 25	16:47 T	Oct 2	07:51	Oct 9	22:32	Oct 18	02:56		
Oct 25	02:30	Oct 31	17:42	Nov 8	16:35	Nov 16	18:27		
Nov 23	12:25	Nov 30	07:35	Dec 8	11:38	Dec 16	07:42		
Dec 22	22:55	Dec 30	01:23						

1765				Jan 7	06:14	Jan 14	18:19		
00h00m									
Jan 21	10:26	Jan 28	21:48	Feb 5	23:09	Feb 13	02:37		
Feb 19	23:15 P	Feb 27	18:53	Mar 7	13:30 t	Mar 14	09:30		
Mar 21	13:18 P	Mar 29	14:46	Apr 6	00:57	Apr 12	16:15		

Apr 20	04:12	Apr 28	08:05	May 5	09:48	May 12	00:03
May 19	19:28	May 27	22:08	Jun 3	16:56	Jun 10	09:48
Jun 18	10:39	Jun 26	08:50	Jul 2	23:33	Jul 9	22:00
Jul 18	01:29	Jul 25	16:39	Aug 1	06:51	Aug 8	12:49
Aug 16	15:37 P	Aug 23	22:37	Aug 30	15:54 t	Sep 7	06:06
Sep 15	04:46 P	Sep 22	04:04	Sep 29	03:26	Oct 7	01:17
Oct 14	16:46	Oct 21	10:28	Oct 28	17:47	Nov 5	21:10
Nov 13	03:52	Nov 19	19:08	Nov 27	10:51	Dec 5	16:03
Dec 12	14:30	Dec 19	06:51	Dec 27	05:56		

Year Delta T	New Moon	First Quarter	Full Moon	Last Quarter
1766 00h00m				Jan 4 08:17
Jan 11	01:10	Jan 17 21:43	Jan 26 01:37	Feb 2 20:57
Feb 9	12:04 T	Feb 16 15:13	Feb 24 20:02 p	Mar 4 06:17
Mar 10	23:12	Mar 18 10:21	Mar 26 11:36	Apr 2 13:12
Apr 9	10:38	Apr 17 05:48	Apr 24 23:48	May 1 18:57
May 8	22:41	May 17 00:07	May 24 09:10	May 31 00:45
Jun 7	11:48	Jun 15 16:08	Jun 22 16:47	Jun 29 07:45
Jul 7	02:16	Jul 15 05:18	Jul 21 23:47	Jul 28 16:58
Aug 5	17:49 A	Aug 13 15:46	Aug 20 07:08 p	Aug 27 05:19
Sep 4	09:42	Sep 12 00:16	Sep 18 15:38	Sep 25 21:18
Oct 4	01:03	Oct 11 07:40	Oct 18 01:58	Oct 25 16:42
Nov 2	15:18	Nov 9 14:56	Nov 16 14:48	Nov 24 14:04
Dec 2	04:26	Dec 8 22:57	Dec 16 06:32	Dec 24 11:10
Dec 31	16:38			
1767 00h00m		Jan 7 08:30	Jan 15 00:50 n	Jan 23 05:54
Jan 30	03:57 T	Feb 5 20:12	Feb 13 20:16 n	Feb 21 21:02
Feb 28	14:17	Mar 7 10:21	Mar 15 14:51	Mar 23 08:23
Mar 29	23:44	Apr 6 02:43	Apr 14 07:05	Apr 21 16:27
Apr 28	08:52	May 5 20:27	May 13 20:25	May 20 22:09
May 27	18:33	Jun 4 14:22	Jun 12 07:15	Jun 19 02:46
Jun 26	05:44	Jul 4 07:25	Jul 11 16:17 n	Jul 18 07:45
Jul 25	18:58 A	Aug 2 22:57	Aug 10 00:17 n	Aug 16 14:36
Aug 24	10:09	Sep 1 12:43	Sep 8 08:02	Sep 15 00:43
Sep 23	02:42	Oct 1 00:42	Oct 7 16:20	Oct 14 14:58
Oct 22	19:46	Oct 30 10:58	Nov 6 02:02	Nov 13 09:16
Nov 21	12:31	Nov 28 19:45	Dec 5 13:55	Dec 13 06:21
Dec 21	04:14	Dec 28 03:41		
1768 00h00m			Jan 4 04:19 p	Jan 12 04:16
Jan 19	18:16 A	Jan 26 11:45	Feb 2 20:51	Feb 11 00:52
Feb 18	06:10	Feb 24 20:56	Mar 3 14:29	Mar 11 18:28
Mar 18	16:00	Mar 25 07:57	Apr 2 08:00	Apr 10 08:10
Apr 17	00:19	Apr 23 21:01	May 2 00:24	May 9 17:53
May 16	08:05	May 23 11:52	May 31 15:07	Jun 8 00:23
Jun 14	16:18	Jun 22 04:05	Jun 30 03:52 t	Jul 7 05:00
Jul 14	01:50 H	Jul 21 21:12	Jul 29 14:42	Aug 5 09:22
Aug 12	13:22	Aug 20 14:38	Aug 28 00:03	Sep 3 15:05
Sep 11	03:15	Sep 19 07:36	Sep 26 08:43	Oct 2 23:33
Oct 10	19:33	Oct 18 23:09	Oct 25 17:39	Nov 1 11:42
Nov 9	13:46	Nov 17 12:31	Nov 24 03:39	Dec 1 03:44
Dec 9	08:43 P	Dec 16 23:27	Dec 23 15:05 t	Dec 30 23:06
1769 00h00m	Jan 8 02:41 P	Jan 15 08:22	Jan 22 03:57	Jan 29 20:28

Feb 6	18:14	Feb 13	16:09	Feb 20	17:58	Feb 28	17:49
Mar 8	06:48	Mar 14	23:44	Mar 22	08:56	Mar 30	13:03
Apr 6	16:46	Apr 13	07:59	Apr 21	00:40	Apr 29	04:43
May 6	00:58	May 12	17:32	May 20	16:42	May 28	16:25
Jun 4	08:19 T	Jun 11	04:59	Jun 19	08:16 t	Jun 27	00:48
Jul 3	15:38	Jul 10	18:46	Jul 18	22:35	Jul 26	06:58
Aug 1	23:46	Aug 9	11:02	Aug 17	11:16	Aug 24	12:15
Aug 31	09:34	Sep 8	05:21	Sep 15	22:33	Sep 22	17:57
Sep 29	21:59	Oct 8	00:32	Oct 15	09:06	Oct 22	01:16
Oct 29	13:37	Nov 6	19:04	Nov 13	19:36	Nov 20	11:13
Nov 28	08:08 A	Dec 6	11:37	Dec 13	06:22 p	Dec 20	00:34
Dec 28	04:01						

1770		Jan 5	01:27	Jan 11	17:22	Jan 18	17:25
00h00m							
Jan 26	23:09	Feb 3	12:24	Feb 10	04:32	Feb 17	12:59
Feb 25	15:53	Mar 4	20:51	Mar 11	16:06	Mar 19	09:30
Mar 27	05:37	Apr 3	03:33	Apr 10	04:32	Apr 18	04:59
Apr 25	16:37	May 2	09:33	May 9	18:12	May 17	22:00
May 25	01:28 T	May 31	16:07	Jun 8	08:58 n	Jun 16	12:01
Jun 23	08:52	Jun 30	00:30	Jul 8	00:16	Jul 15	23:13
Jul 22	15:39	Jul 29	11:46	Aug 6	15:25	Aug 14	08:06
Aug 20	22:52	Aug 28	02:25	Sep 5	06:01	Sep 12	15:21
Sep 19	07:40	Sep 26	20:14	Oct 4	19:56	Oct 11	21:51
Oct 18	19:08	Oct 26	16:13	Nov 3	09:10 n	Nov 10	04:41
Nov 17	09:50 A	Nov 25	12:51	Dec 2	21:35 n	Dec 9	13:06
Dec 17	03:24	Dec 25	08:24				

Year	New Moon	First Quarter	Full Moon	Last Quarter
Delta T				
1771			Jan 1 09:05	Jan 8 00:08
00h00m				
Jan 15	22:35	Jan 24 01:21	Jan 30 19:38	Feb 6 14:11
Feb 14	17:44	Feb 22 14:43	Mar 1 05:35	Mar 8 06:49
Mar 16	11:24	Mar 24 00:19	Mar 30 15:28	Apr 7 00:55
Apr 15	02:40	Apr 22 06:53	Apr 29 01:54 p	May 6 19:16
May 14	15:06 H	May 21 11:49	May 28 13:18	Jun 5 12:54
Jun 13	00:53	Jun 19 16:40	Jun 27 01:58	Jul 5 05:05
Jul 12	08:43	Jul 18 22:57	Jul 26 15:59	Aug 3 19:19
Aug 10	15:42	Aug 17 07:54	Aug 25 07:21	Sep 2 07:19
Sep 8	23:02	Sep 15 20:18	Sep 23 23:43	Oct 1 17:11
Oct 8	07:49	Oct 15 12:25	Oct 23 16:22 p	Oct 31 01:28
Nov 6	18:47 H	Nov 14 07:52	Nov 22 08:13	Nov 29 09:05
Dec 6	08:10	Dec 14 05:27	Dec 21 22:28	Dec 28 17:06
1772	Jan 4 23:47	Jan 13 03:07	Jan 20 10:50	Jan 27 02:24
00h00m				
Feb 3	17:10	Feb 11 22:32	Feb 18 21:34	Feb 25 13:29
Mar 4	11:28	Mar 12 14:03	Mar 19 07:09	Mar 26 02:27
Apr 3	05:26 P	Apr 11 01:16	Apr 17 16:02 t	Apr 24 17:11
May 2	21:42 P	May 10 08:56	May 17 00:44	May 24 09:26
Jun 1	11:21	Jun 8 14:20	Jun 15 09:51	Jun 23 02:42
Jun 30	22:22	Jul 7 18:54	Jul 14 20:14	Jul 22 20:10
Jul 30	07:28	Aug 6 00:01	Aug 13 08:43	Aug 21 12:51
Aug 28	15:46	Sep 4 06:59	Sep 11 23:50	Sep 20 03:56
Sep 27	00:14 P	Oct 3 16:58	Oct 11 17:14 t	Oct 19 17:03
Oct 26	09:33 P	Nov 2 06:50	Nov 10 11:41	Nov 18 04:16
Nov 24	20:03	Dec 2 00:49	Dec 10 05:32	Dec 17 13:52
Dec 24	07:58	Dec 31 21:58		

1773				Jan 8	21:36	Jan 15	22:21	
00h00m								
	Jan 22	21:30	Jan 30	20:07	Feb 7	11:27	Feb 14	06:20
	Feb 21	12:48	Mar 1	16:44	Mar 8	23:07	Mar 15	14:38
	Mar 23	05:28 A	Mar 31	10:03	Apr 7	08:49 p	Apr 14	00:04
	Apr 21	22:30	Apr 29	23:29	May 6	16:58	May 13	11:23
	May 21	14:40	May 29	09:21	Jun 5	00:14	Jun 12	00:59
	Jun 20	05:10	Jun 27	16:25	Jul 4	07:38	Jul 11	16:47
	Jul 19	17:54	Jul 26	21:43	Aug 2	16:25	Aug 10	10:11
	Aug 18	05:15	Aug 25	02:31	Sep 1	03:40	Sep 9	04:18
	Sep 16	15:43 T	Sep 23	08:16	Sep 30	18:00 p	Oct 8	22:11
	Oct 16	01:46	Oct 22	16:27	Oct 30	11:09	Nov 7	14:56
	Nov 14	11:44	Nov 21	04:17	Nov 29	06:01	Dec 7	05:41
	Dec 13	21:58	Dec 20	20:09	Dec 29	01:07		

1774						Jan 5	17:47	
00h00m								
	Jan 12	08:55	Jan 19	15:21	Jan 27	19:04	Feb 4	03:11
	Feb 10	20:54	Feb 18	12:09	Feb 26	10:45 n	Mar 5	10:32
	Mar 12	10:07 A	Mar 20	08:39	Mar 27	23:35 n	Apr 3	17:00
	Apr 11	00:21	Apr 19	03:15	Apr 26	09:33	May 2	23:52
	May 10	15:13	May 18	18:57	May 25	17:19	Jun 1	08:17
	Jun 9	06:19	Jun 17	07:23	Jun 23	23:58	Jun 30	18:59
	Jul 8	21:21	Jul 16	16:43	Jul 23	06:46	Jul 30	08:21
	Aug 7	12:01	Aug 14	23:40	Aug 21	14:51 n	Aug 29	00:27
	Sep 6	01:56 A	Sep 13	05:24	Sep 20	01:09 n	Sep 27	18:56
	Oct 5	14:48	Oct 12	11:19	Oct 19	14:10	Oct 27	14:55
	Nov 4	02:34	Nov 10	18:49	Nov 18	06:00	Nov 26	10:48
	Dec 3	13:34	Dec 10	04:57	Dec 18	00:14	Dec 26	04:45

1775	Jan 2	00:15	Jan 8	18:09	Jan 16	19:49	Jan 24	19:22
00h00m								
	Jan 31	10:58	Feb 7	10:13	Feb 15	15:03 p	Feb 23	06:18
	Mar 1	21:48 T	Mar 9	04:23	Mar 17	08:06	Mar 24	14:12
	Mar 31	08:49	Apr 7	23:34	Apr 15	21:54	Apr 22	20:15
	Apr 29	20:13	May 7	18:26	May 15	08:30	May 22	01:42
	May 29	08:30	Jun 6	11:40	Jun 13	16:49	Jun 20	07:47
	Jun 27	22:07	Jul 6	02:24	Jul 13	00:01	Jul 19	15:37
	Jul 27	13:10	Aug 4	14:23	Aug 11	07:10 p	Aug 18	02:13
	Aug 26	05:08 A	Sep 3	00:04	Sep 9	15:06	Sep 16	16:21
	Sep 24	21:07	Oct 2	08:11	Oct 9	00:33	Oct 16	10:14
	Oct 24	12:15	Oct 31	15:38	Nov 7	12:09	Nov 15	07:01
	Nov 23	02:11	Nov 29	23:18	Dec 7	02:27	Dec 15	04:42
	Dec 22	15:00	Dec 29	07:59				

Year	New Moon	First Quarter	Full Moon	Last Quarter
Delta T				
1776			Jan 5	19:31
00h00m			Jan 14	00:58
	Jan 21	02:48 P	Jan 27	18:24
	Feb 19	13:33 P	Feb 26	07:03
	Mar 19	23:14	Mar 26	22:01
	Apr 18	08:12	Apr 25	14:52
	May 17	17:15	May 25	08:37
	Jun 16	03:23	Jun 24	02:09
	Jul 15	15:26 P	Jul 23	18:36
	Aug 14	05:41 P	Aug 22	09:32
	Sep 12	21:46	Sep 20	22:44
	Oct 12	14:54	Oct 20	10:11
	Nov 11	08:10	Nov 18	19:55
			Feb 4	14:29 t
			Mar 5	09:34
			Apr 4	02:58
			May 3	17:39
			Jun 2	05:38
			Jul 1	15:32
			Jul 31	00:04 t
			Aug 29	08:01
			Sep 27	16:06
			Oct 27	01:09
			Nov 25	11:58
			Feb 12	18:02
			Mar 13	07:14
			Apr 11	16:48
			May 10	23:30
			Jun 9	04:25
			Jul 8	08:57
			Aug 6	14:38
			Sep 4	22:57
			Oct 4	11:05
			Nov 3	03:29
			Dec 2	23:26

	Dec 11	00:43	Dec 18	04:20	Dec 25	01:05		
1777							Jan 1	21:15
00h00m	Jan 9	15:47 A	Jan 16	12:11	Jan 23	16:31 p	Jan 31	18:44
	Feb 8	04:47	Feb 14	20:32	Feb 22	09:32	Mar 2	13:57
	Mar 9	15:31	Mar 16	06:18	Mar 24	02:59	Apr 1	05:38
	Apr 8	00:20	Apr 14	18:00	Apr 22	19:51	Apr 30	17:17
	May 7	08:04	May 14	07:40	May 22	11:21	May 30	01:16
	Jun 5	15:46	Jun 12	23:01	Jun 21	01:07	Jun 28	06:41
	Jul 5	00:25 T	Jul 12	15:39	Jul 20	13:00 p	Jul 27	11:01
	Aug 3	10:50	Aug 11	09:06	Aug 18	23:13	Aug 25	15:55
	Sep 1	23:32	Sep 10	02:39	Sep 17	08:20	Sep 23	22:55
	Oct 1	14:45	Oct 9	19:22	Oct 16	17:15	Oct 23	09:11
	Oct 31	08:16	Nov 8	10:15	Nov 15	02:48	Nov 21	23:18
	Nov 30	03:13	Dec 7	22:39	Dec 14	13:35 n	Dec 21	17:05
	Dec 29	22:02 A						
1778			Jan 6	08:38	Jan 13	01:42 n	Jan 20	13:33
00h00m	Jan 28	15:00	Feb 4	16:51	Feb 11	14:59	Feb 19	11:01
	Feb 27	05:02	Mar 6	00:16	Mar 13	05:14	Mar 21	07:25
	Mar 28	16:07	Apr 4	07:51	Apr 11	20:19	Apr 20	00:55
	Apr 27	00:57	May 3	16:22	May 11	12:02	May 19	14:35
	May 26	08:30	Jun 2	02:31	Jun 10	03:49 n	Jun 18	00:35
	Jun 24	15:39 T	Jul 1	14:51	Jul 9	18:53	Jul 17	07:51
	Jul 23	23:14	Jul 31	05:47	Aug 8	08:34	Aug 15	13:35
	Aug 22	08:06	Aug 29	23:14	Sep 6	20:44	Sep 13	19:04
	Sep 20	19:09	Sep 28	18:23	Oct 6	07:50	Oct 13	01:34
	Oct 20	09:14	Oct 28	13:44	Nov 4	18:33	Nov 11	10:09
	Nov 19	02:30	Nov 27	07:43	Dec 4	05:20 p	Dec 10	21:43
	Dec 18	22:02 A	Dec 26	23:11				
1779					Jan 2	16:17	Jan 9	12:43
00h00m	Jan 17	17:50	Jan 25	11:39	Feb 1	03:16	Feb 8	06:53
	Feb 16	11:53	Feb 23	21:17	Mar 2	14:23	Mar 10	02:54
	Mar 18	03:03	Mar 25	04:38	Apr 1	02:03	Apr 8	22:54
	Apr 16	15:17	Apr 23	10:39	Apr 30	14:47	May 8	17:09
	May 16	01:03 P	May 22	16:33	May 30	04:48 t	Jun 7	08:41
	Jun 14	09:02 P	Jun 20	23:39	Jun 28	19:48	Jul 6	21:23
	Jul 13	16:01	Jul 20	09:12	Jul 28	11:08	Aug 5	07:35
	Aug 11	22:56	Aug 18	22:02	Aug 27	02:13	Sep 3	15:49
	Sep 10	06:53	Sep 17	14:24	Sep 25	16:45	Oct 2	22:49
	Oct 9	16:59	Oct 17	09:37	Oct 25	06:38	Nov 1	05:32
	Nov 8	06:08	Nov 16	06:20	Nov 23	19:44 t	Nov 30	13:06
	Dec 7	22:24 P	Dec 16	02:51	Dec 23	07:52	Dec 29	22:40
1780	Jan 6	16:57	Jan 14	21:25	Jan 21	18:53	Jan 28	11:03
00h00m	Feb 5	12:12	Feb 13	12:42	Feb 20	04:58	Feb 27	02:12
	Mar 6	06:38	Mar 14	00:08	Mar 20	14:36	Mar 27	19:23
	Apr 4	23:04	Apr 12	08:00	Apr 19	00:26	Apr 26	13:27
	May 4	12:52 A	May 11	13:28	May 18	11:03 p	May 26	07:22
	Jun 2	23:54	Jun 9	18:02	Jun 16	22:51	Jun 25	00:21
	Jul 2	08:38	Jul 8	23:18	Jul 16	12:05	Jul 24	15:46
	Jul 31	15:59	Aug 7	06:43	Aug 15	02:49	Aug 23	05:11
	Aug 29	23:08	Sep 5	17:17	Sep 13	18:55	Sep 21	16:25
	Sep 28	07:13	Oct 5	07:34	Oct 13	11:48	Oct 21	01:43
	Oct 27	17:10 T	Nov 4	01:31	Nov 12	04:28 p	Nov 19	09:45
	Nov 26	05:24	Dec 3	22:21	Dec 11	19:49	Dec 18	17:32
	Dec 25	19:56						

Year Delta T	New Moon	First Quarter	Full Moon	Last Quarter
1781 00h00m		Jan 2 20:21	Jan 10 09:14	Jan 17 02:04
	Jan 24 12:23	Feb 1 17:11	Feb 8 20:43	Feb 15 12:01
	Feb 23 06:08	Mar 3 10:47	Mar 10 06:41	Mar 16 23:44
	Mar 25 00:13	Apr 2 00:05	Apr 8 15:41 n	Apr 15 13:15
	Apr 23 17:20 A	May 1 09:22	May 8 00:11 n	May 15 04:27
	May 23 08:18	May 30 15:43	Jun 6 08:49	Jun 13 21:06
	Jun 21 20:37	Jun 28 20:31	Jul 5 18:20	Jul 13 14:33
	Jul 21 06:40	Jul 28 01:11	Aug 4 05:36	Aug 12 07:54
	Aug 19 15:25	Aug 26 07:05	Sep 2 19:24	Sep 11 00:09
	Sep 17 23:53	Sep 24 15:27	Oct 2 11:54	Oct 10 14:38
	Oct 17 08:55 T	Oct 24 03:19	Nov 1 06:14 n	Nov 9 03:07
	Nov 15 18:57	Nov 22 19:18	Dec 1 00:47	Dec 8 13:42
	Dec 15 06:11	Dec 22 15:03	Dec 30 18:00	
1782 00h00m				Jan 6 22:47
	Jan 13 18:49	Jan 21 12:57	Jan 29 09:02	Feb 5 06:52
	Feb 12 09:02	Feb 20 10:32	Feb 27 21:44	Mar 6 14:43
	Mar 14 00:50	Mar 22 05:33	Mar 29 08:16 p	Apr 4 23:11
	Apr 12 17:33 A	Apr 20 20:53	Apr 27 16:59	May 4 09:09
	May 12 10:05	May 20 08:29	May 27 00:26	Jun 2 21:17
	Jun 11 01:25	Jun 18 16:54	Jun 25 07:32	Jul 2 11:49
	Jul 10 15:05	Jul 17 23:03	Jul 24 15:25	Aug 1 04:28
	Aug 9 03:14	Aug 16 04:03	Aug 23 01:18	Aug 30 22:28
	Sep 7 14:20	Sep 14 09:15	Sep 21 14:07 p	Sep 29 16:51
	Oct 7 00:48 T	Oct 13 16:08	Oct 21 06:03	Oct 29 10:37
	Nov 5 10:59	Nov 12 02:03	Nov 20 00:22	Nov 28 02:46
	Dec 4 21:11	Dec 11 15:53	Dec 19 19:39	Dec 27 16:28
1783 00h00m	Jan 3 07:45	Jan 10 09:28	Jan 18 14:24	Jan 26 03:16
	Feb 1 19:04	Feb 9 05:31	Feb 17 07:19	Feb 24 11:28
	Mar 3 07:27 P	Mar 11 02:11	Mar 18 21:32 t	Mar 25 18:03
	Apr 1 20:55 P	Apr 9 21:43	Apr 17 08:48	Apr 24 00:20
	May 1 11:13	May 9 14:53	May 16 17:27	May 23 07:35
	May 31 02:02	Jun 8 05:01	Jun 15 00:27	Jun 21 16:50
	Jun 29 17:03	Jul 7 15:59	Jul 14 07:01	Jul 21 04:40
	Jul 29 08:01	Aug 6 00:13	Aug 12 14:21	Aug 19 19:22
	Aug 27 22:34 P	Sep 4 06:37	Sep 10 23:31 t	Sep 18 12:49
	Sep 26 12:17 P	Oct 3 12:27	Oct 10 11:13	Oct 18 08:24
	Oct 26 00:53	Nov 1 19:09	Nov 9 01:44	Nov 17 04:50
	Nov 24 12:27	Dec 1 03:55	Dec 8 18:54	Dec 17 00:13
	Dec 23 23:21	Dec 30 15:30		
1784 00h00m			Jan 7 13:59	Jan 15 16:46
	Jan 22 10:01	Jan 29 06:00	Feb 6 09:33	Feb 14 05:34
	Feb 20 20:39 T	Feb 27 22:57	Mar 7 03:48 p	Mar 14 14:49
	Mar 21 07:20	Mar 28 17:28	Apr 5 19:12	Apr 12 21:31
	Apr 19 18:13	Apr 27 12:25	May 5 07:16	May 12 02:57
	May 19 05:44	May 27 06:31	Jun 3 16:33	Jun 10 08:25
	Jun 17 18:26	Jun 25 22:37	Jul 3 00:12	Jul 9 15:05
	Jul 17 08:42	Jul 25 12:09	Aug 1 07:19	Aug 8 00:05
	Aug 16 00:23 A	Aug 23 23:11	Aug 30 14:52 p	Sep 6 12:20
	Sep 14 16:41	Sep 22 08:17	Sep 28 23:37	Oct 6 04:26
	Oct 14 08:37	Oct 21 16:14	Oct 28 10:10	Nov 5 00:04
	Nov 12 23:28	Nov 19 23:52	Nov 26 23:07	Dec 4 21:45
	Dec 12 13:02	Dec 19 08:00	Dec 26 14:49	

1785						Jan 3	19:08	
00h00m								
	Jan 11	01:26	Jan 17	17:23	Jan 25	08:53 n	Feb 2	14:00
	Feb 9	12:40 T	Feb 16	04:39	Feb 24	03:58 n	Mar 4	05:10
	Mar 10	22:43	Mar 17	18:09	Mar 25	22:14	Apr 2	16:28
	Apr 9	07:46	Apr 16	09:47	Apr 24	14:13	May 2	00:25
	May 8	16:25	May 16	02:56	May 24	03:28	May 31	06:01
	Jun 7	01:41	Jun 14	20:34	Jun 22	14:21	Jun 29	10:31
	Jul 6	12:32	Jul 14	13:41	Jul 21	23:34 n	Jul 28	15:23
	Aug 5	01:38 A	Aug 13	05:36	Aug 20	07:52 n	Aug 26	22:10
	Sep 3	16:57	Sep 11	20:00	Sep 18	15:58	Sep 25	08:17
	Oct 3	09:51	Oct 11	08:41	Oct 18	00:37	Oct 24	22:36
	Nov 2	03:25	Nov 9	19:34	Nov 16	10:35	Nov 23	16:59
	Dec 1	20:39	Dec 9	04:46	Dec 15	22:32	Dec 23	14:09
	Dec 31	12:43						

Year	New Moon	First Quarter	Full Moon	Last Quarter				
Delta T								
1786		Jan 7	12:50	Jan 14	12:46 p	Jan 22	12:02	
00h00m								
	Jan 30	02:52 A	Feb 5	20:43	Feb 13	04:55	Feb 21	08:33
	Feb 28	14:40	Mar 7	05:26	Mar 14	22:02	Mar 23	02:04
	Mar 30	00:13	Apr 5	15:49	Apr 13	15:04	Apr 21	15:42
	Apr 28	08:12	May 5	04:10	May 13	07:10	May 21	01:26
	May 27	15:37	Jun 3	18:25	Jun 11	21:48	Jun 19	08:02
	Jun 25	23:33	Jul 3	10:19	Jul 11	10:42 t	Jul 18	12:46
	Jul 25	08:55 H	Aug 2	03:26	Aug 9	21:53	Aug 16	17:15
	Aug 23	20:25	Aug 31	21:13	Sep 8	07:42	Sep 14	23:05
	Sep 22	10:26	Sep 30	14:48	Oct 7	16:50	Oct 14	07:40
	Oct 22	03:00	Oct 30	07:04	Nov 6	02:10	Nov 12	19:51
	Nov 20	21:33	Nov 28	21:03	Dec 5	12:24	Dec 12	11:50
	Dec 20	16:49 P	Dec 28	08:23				

1787				Jan 3	23:52 t	Jan 11	07:02	
00h00m								
	Jan 19	10:59 P	Jan 26	17:25	Feb 2	12:28	Feb 10	04:05
	Feb 18	02:33	Feb 25	01:01	Mar 4	02:01	Mar 12	01:07
	Mar 19	14:58	Mar 26	08:13	Apr 2	16:24	Apr 10	20:08
	Apr 18	00:42	Apr 24	15:54	May 2	07:33	May 10	11:43
	May 17	08:40	May 24	00:51	May 31	23:13	Jun 8	23:33
	Jun 15	15:49 T	Jun 22	11:46	Jun 30	14:42 t	Jul 8	08:11
	Jul 14	23:02	Jul 22	01:13	Jul 30	05:15	Aug 6	14:41
	Aug 13	07:09	Aug 20	17:27	Aug 28	18:23	Sep 4	20:19
	Sep 11	17:03	Sep 19	12:03	Sep 27	06:14	Oct 4	02:19
	Oct 11	05:37	Oct 19	07:45	Oct 26	17:20	Nov 2	09:50
	Nov 9	21:25	Nov 18	02:55	Nov 25	04:16	Dec 1	19:50
	Dec 9	16:05 A	Dec 17	19:59	Dec 24	15:14 p	Dec 31	09:01

1788	Jan 8	12:03	Jan 16	10:08	Jan 23	02:11	Jan 30	01:30
00h00m								
	Feb 7	07:10	Feb 14	21:10	Feb 21	13:02	Feb 28	20:32
	Mar 7	23:47	Mar 15	05:29	Mar 22	00:06	Mar 29	16:32
	Apr 6	13:22	Apr 13	11:53	Apr 20	11:57	Apr 28	11:38
	May 6	00:12	May 12	17:29	May 20	01:04	May 28	04:33
	Jun 4	08:56 T	Jun 10	23:37	Jun 18	15:27 n	Jun 26	18:44
	Jul 3	16:19	Jul 10	07:37	Jul 18	06:40	Jul 26	06:19
	Aug 1	23:11	Aug 8	18:37	Aug 16	22:04	Aug 24	15:44
	Aug 31	06:34	Sep 7	09:13	Sep 15	13:08	Sep 22	23:31
	Sep 29	15:34	Oct 7	03:14	Oct 15	03:40	Oct 22	06:28

Oct 29	03:12	Nov 5	23:36	Nov 13	17:27 n	Nov 20	13:36
Nov 27	18:01 A	Dec 5	20:38	Dec 13	06:17 n	Dec 19	22:03
Dec 27	11:33						

1789  
00h00m

		Jan 4	16:32	Jan 11	17:56	Jan 18	08:51
Jan 26	06:34	Feb 3	09:40	Feb 10	04:22	Feb 16	22:24
Feb 25	01:28	Mar 4	23:03	Mar 11	13:59	Mar 18	14:22
Mar 26	18:52	Apr 3	08:33	Apr 9	23:24	Apr 17	07:49
Apr 25	09:56	May 2	14:58	May 9	09:18 p	May 17	01:41
May 24	22:17 H	May 31	19:41	Jun 7	20:15	Jun 15	19:08
Jun 23	08:07	Jun 30	00:19	Jul 7	08:36	Jul 15	11:29
Jul 22	16:07	Jul 29	06:24	Aug 5	22:34	Aug 14	02:12
Aug 20	23:21	Aug 27	15:14	Sep 4	14:07	Sep 12	14:51
Sep 19	06:59	Sep 26	03:38	Oct 4	06:56	Oct 12	01:23
Oct 18	16:04	Oct 25	19:52	Nov 3	00:08 p	Nov 10	10:13
Nov 17	03:14 H	Nov 24	15:29	Dec 2	16:31	Dec 9	18:10
Dec 16	16:39	Dec 24	13:14				

1790  
00h00m

				Jan 1	07:06	Jan 8	02:13
Jan 15	08:06	Jan 23	10:59	Jan 30	19:32	Feb 6	11:15
Feb 14	01:06	Feb 22	06:24	Mar 1	06:07	Mar 7	21:48
Mar 15	18:56	Mar 23	21:52	Mar 30	15:22	Apr 6	10:04
Apr 14	12:30 P	Apr 22	09:03	Apr 28	23:51 t	May 6	00:06
May 14	04:32 P	May 21	16:41	May 28	08:09	Jun 4	15:48
Jun 12	18:11	Jun 19	22:05	Jun 26	16:58	Jul 4	08:50
Jul 12	05:23	Jul 19	02:40	Jul 26	03:10	Aug 3	02:27
Aug 10	14:49	Aug 17	07:48	Aug 24	15:37	Sep 1	19:36
Sep 8	23:30	Sep 15	14:49	Sep 23	06:54	Oct 1	11:22
Oct 8	08:23 P	Oct 15	00:51	Oct 23	00:39 t	Oct 31	01:13
Nov 6	18:04 P	Nov 13	14:46	Nov 21	19:31	Nov 29	13:00
Dec 6	04:47	Dec 13	08:45	Dec 21	13:45	Dec 28	22:56

Year  
Delta T

New Moon      First Quarter      Full Moon      Last Quarter

1791  
00h00m

Jan 4	16:39	Jan 12	05:47	Jan 20	06:02	Jan 27	07:27
Feb 3	05:54	Feb 11	03:44	Feb 18	19:52	Feb 25	15:10
Mar 4	20:42	Mar 13	00:09	Mar 20	07:22	Mar 26	22:58
Apr 3	12:47 A	Apr 11	17:19	Apr 18	16:48 p	Apr 25	07:46
May 3	05:18	May 11	06:44	May 18	00:39	May 24	18:26
Jun 1	21:13	Jun 9	16:42	Jun 16	07:41	Jun 23	07:31
Jul 1	11:44	Jul 8	23:58	Jul 15	14:57	Jul 22	23:04
Jul 31	00:45	Aug 7	05:32	Aug 13	23:41	Aug 21	16:34
Aug 29	12:33	Sep 5	10:35	Sep 12	10:59	Sep 20	11:05
Sep 27	23:32 T	Oct 4	16:33	Oct 12	01:29 p	Oct 20	05:36
Oct 27	10:05	Nov 3	00:52	Nov 10	18:52	Nov 18	23:00
Nov 25	20:25	Dec 2	12:41	Dec 10	13:58	Dec 18	14:16
Dec 25	06:50						

1792  
00h00m

		Jan 1	04:24	Jan 9	09:14	Jan 17	02:39
Jan 23	17:40	Jan 30	23:14	Feb 8	03:12	Feb 15	12:05
Feb 22	05:19	Feb 29	19:36	Mar 8	18:48 n	Mar 15	19:12
Mar 22	17:58 A	Mar 30	15:41	Apr 7	07:27 n	Apr 14	01:16
Apr 21	07:35	Apr 29	10:01	May 6	17:14	May 13	07:39
May 20	21:56	May 29	01:42	Jun 5	00:51	Jun 11	15:33
Jun 19	12:45	Jun 27	14:21	Jul 4	07:27	Jul 11	01:50
Jul 19	03:47	Jul 27	00:04	Aug 2	14:16	Aug 9	15:00
Aug 17	18:45	Aug 25	07:29	Aug 31	22:28 n	Sep 8	07:08



Sep 16	09:12	A	Sep 23	13:40	Sep 30	08:55	n	Oct 8	01:55
Oct 15	22:41	Oct 22	19:56	Oct 29	22:06	Nov 6	22:22	Dec 6	18:45
Nov 14	10:59	Nov 21	03:38	Nov 28	14:03	Dec 6	18:45		
Dec 13	22:21	Dec 20	13:44	Dec 28	08:18				

1793  
00h00m

								Jan 5	13:05
Jan 12	09:08	Jan 19	02:40	Jan 27	03:47	Feb 4	03:53		
Feb 10	19:41	Feb 17	18:13	Feb 25	22:50	p	Mar 5	14:49	
Mar 12	06:07	T	Mar 19	11:45	Mar 27	15:41	Apr 3	22:34	
Apr 10	16:37	Apr 18	06:21	Apr 26	05:20	May 3	04:21		
May 10	03:29	May 18	00:50	May 25	15:51	Jun 1	09:30		
Jun 8	15:17	Jun 16	18:02	Jun 24	00:11	Jun 30	15:17		
Jul 8	04:37	Jul 16	09:02	Jul 23	07:29	Jul 29	22:52		
Aug 6	19:39	Aug 14	21:32	Aug 21	14:49	p	Aug 28	09:20	
Sep 5	11:56	A	Sep 13	07:49	Sep 19	23:01	Sep 26	23:29	
Oct 5	04:26	Oct 12	16:32	Oct 19	08:44	Oct 26	17:33		
Nov 3	20:10	Nov 11	00:28	Nov 17	20:30	Nov 25	14:36		
Dec 3	10:37	Dec 10	08:22	Dec 17	10:48	Dec 25	12:33		

1794  
00h00m

Jan 1	23:44	Jan 8	17:00	Jan 16	03:42	Jan 24	08:59		
Jan 31	11:34	P	Feb 7	03:05	Feb 14	22:19	t	Feb 23	02:06
Mar 1	22:07	P	Mar 8	15:09	Mar 16	17:02	Mar 24	15:16	
Mar 31	07:25	Apr 7	05:24	Apr 15	10:07	Apr 23	00:46		
Apr 29	15:57	May 6	21:34	May 15	00:39	May 22	07:21		
May 29	00:34	Jun 5	14:52	Jun 13	12:39	Jun 20	12:12		
Jun 27	10:20	Jul 5	08:19	Jul 12	22:42	Jul 19	16:40		
Jul 26	22:10	P	Aug 4	01:02	Aug 11	07:32	t	Aug 17	22:17
Aug 25	12:26	P	Sep 2	16:31	Sep 9	15:49	Sep 16	06:35	
Sep 24	04:47	Oct 2	06:25	Oct 9	00:17	Oct 15	18:46		
Oct 23	22:22	Oct 31	18:33	Nov 7	09:39	Nov 14	11:14		
Nov 22	16:07	Nov 30	04:48	Dec 6	20:37	Dec 14	07:15		
Dec 22	09:04	Dec 29	13:28						

1795  
00h00m

					Jan 5	09:40	Jan 13	05:02	
Jan 21	00:21	A	Jan 27	21:16	Feb 4	00:46	p	Feb 12	02:25
Feb 19	13:19	Feb 26	05:16	Mar 5	17:17	Mar 13	21:31		
Mar 20	23:50	Mar 27	14:27	Apr 4	10:13	Apr 12	13:06		
Apr 19	08:19	Apr 26	01:27	May 4	02:40	May 12	00:45		
May 18	15:44	May 25	14:28	Jun 2	17:59	Jun 10	08:49		
Jun 16	23:08	Jun 24	05:22	Jul 2	07:50	Jul 9	14:23		
Jul 16	07:36	T	Jul 23	21:51	Jul 31	20:00	p	Aug 7	18:52
Aug 14	17:56	Aug 22	15:30	Aug 30	06:39	Sep 5	23:55		
Sep 13	06:43	Sep 21	09:34	Sep 28	16:16	Oct 5	07:03		
Oct 12	22:08	Oct 21	02:59	Oct 28	01:38	Nov 3	17:24		
Nov 11	15:57	Nov 19	18:32	Nov 26	11:31	Dec 3	07:30		
Dec 11	11:12	Dec 19	07:26	Dec 25	22:24	n			

Year  
Delta T

New Moon                      First Quarter                      Full Moon                      Last Quarter

1796  
00h00m

								Jan 2	01:08
Jan 10	06:15	A	Jan 17	17:38	Jan 24	10:22	n	Jan 31	21:19
Feb 8	23:16	Feb 16	01:48	Feb 22	23:16	Mar 1	18:25		
Mar 9	13:13	Mar 16	08:55	Mar 23	12:56	Mar 31	14:30		
Apr 8	00:05	Apr 14	16:00	Apr 22	03:25	Apr 30	07:51		
May 7	08:42	May 13	23:57	May 21	18:40	May 29	21:34		
Jun 5	16:03	Jun 12	09:32	Jun 20	10:14	n	Jun 28	07:49	

Jul 4	23:05	T	Jul 11	21:28	Jul 20	01:24	Jul 27	15:24
Aug 3	06:39		Aug 10	12:14	Aug 18	15:28	Aug 25	21:31
Sep 1	15:35		Sep 9	05:49	Sep 17	04:11	Sep 24	03:22
Oct 1	02:47		Oct 9	01:23	Oct 16	15:52	Oct 23	10:07
Oct 30	17:02		Nov 7	21:19	Nov 15	03:04	Nov 21	18:49
Nov 29	10:27		Dec 7	15:52	Dec 14	14:10	Dec 21	06:18
Dec 29	06:03	A						

1797  
00h00m

			Jan 6	07:43	Jan 13	01:09	Jan 19	21:01
Jan 28	01:50		Feb 4	20:22	Feb 11	11:56	Feb 18	14:40
Feb 26	19:47		Mar 6	05:56	Mar 12	22:37	Mar 20	10:07
Mar 28	10:48		Apr 4	13:04	Apr 11	09:42	Apr 19	05:39
Apr 26	22:52		May 3	18:44	May 10	21:52	May 18	23:39
May 26	08:31		Jun 2	00:14	Jun 9	11:25	Jun 17	15:15
Jun 24	16:28	T	Jul 1	06:57	Jul 9	02:13	Jul 17	04:16
Jul 23	23:31		Jul 30	16:12	Aug 7	17:39	Aug 15	14:58
Aug 22	06:35		Aug 29	04:55	Sep 6	09:08	Sep 13	23:46
Sep 20	14:44		Sep 27	21:21	Oct 6	00:14	Oct 13	07:18
Oct 20	01:03		Oct 27	16:52	Nov 4	14:43	Nov 11	14:23
Nov 18	14:20		Nov 26	13:58	Dec 4	04:18	Dec 10	22:05
Dec 18	06:37	P	Dec 26	10:50				

1798  
00h00m

					Jan 2	16:40	Jan 9	07:33
Jan 17	01:01		Jan 25	05:37	Feb 1	03:40	Feb 7	19:31
Feb 15	20:01		Feb 23	20:59	Mar 2	13:30	Mar 9	10:03
Mar 17	14:10		Mar 25	08:21	Mar 31	22:43	Apr 8	02:33
Apr 16	06:21		Apr 23	16:06	Apr 30	08:03	May 7	20:02
May 15	20:01	A	May 22	21:24	May 29	18:11	Jun 6	13:37
Jun 14	07:04		Jun 21	01:47	Jun 28	05:37	Jul 6	06:37
Jul 13	15:57		Jul 20	06:53	Jul 27	18:41	Aug 4	22:24
Aug 11	23:32		Aug 18	14:09	Aug 26	09:31	Sep 3	12:25
Sep 10	06:59		Sep 17	00:41	Sep 25	01:57	Oct 3	00:20
Oct 9	15:24		Oct 16	15:02	Oct 24	19:21	Nov 1	10:15
Nov 8	01:36	T	Nov 15	09:08	Nov 23	12:33	Nov 30	18:44
Dec 7	13:57		Dec 15	06:05	Dec 23	04:19	Dec 30	02:41

1799  
00h00m

Jan 6	04:22		Jan 14	04:10	Jan 21	17:54	Jan 28	11:04
Feb 4	20:30		Feb 13	01:00	Feb 20	05:18	Feb 26	20:36
Mar 6	13:48		Mar 14	18:32	Mar 21	15:01	Mar 28	07:40
Apr 5	07:25		Apr 13	07:48	Apr 19	23:38	Apr 26	20:28
May 5	00:12	A	May 12	17:04	May 19	07:46	May 26	11:03
Jun 3	15:03		Jun 10	23:25	Jun 17	16:05	Jun 25	03:18
Jul 3	03:30		Jul 10	04:16	Jul 17	01:21	Jul 24	20:44
Aug 1	13:51		Aug 8	09:00	Aug 15	12:33	Aug 23	14:25
Aug 30	22:59		Sep 6	14:58	Sep 14	02:26	Sep 22	07:17
Sep 29	07:54		Oct 5	23:24	Oct 13	19:12	Oct 21	22:29
Oct 28	17:20	T	Nov 4	11:19	Nov 12	13:55	Nov 20	11:37
Nov 27	03:38		Dec 4	03:18	Dec 12	08:52	Dec 19	22:39
Dec 26	14:57							

1800  
00h00m

			Jan 2	22:57	Jan 11	02:21	Jan 18	07:53
Jan 25	03:22		Feb 1	20:39	Feb 9	17:27	Feb 16	15:49
Feb 23	17:10		Mar 3	17:58	Mar 11	06:01	Mar 17	23:16
Mar 25	08:22		Apr 2	12:48	Apr 9	16:19	Apr 16	07:10
Apr 24	00:32	A	May 2	04:03	May 9	00:45	May 15	16:29
May 23	16:41		May 31	15:42	Jun 7	07:59	Jun 14	04:02
Jun 22	07:55		Jun 30	00:20	Jul 6	14:55	Jul 13	18:13
Jul 21	21:46		Jul 29	06:45	Aug 4	22:44	Aug 12	10:48
Aug 20	10:19		Aug 27	12:03	Sep 3	08:39	Sep 11	05:05

Sep 18	21:56	Sep 25	17:31	Oct 2	21:35 p	Oct 11	00:00
Oct 18	08:56 T	Oct 25	00:34	Nov 1	13:44	Nov 9	18:24
Nov 16	19:34	Nov 23	10:33	Dec 1	08:15	Dec 9	11:09
Dec 16	06:01	Dec 23	00:17	Dec 31	03:42		

Year	New Moon	First Quarter	Full Moon	Last Quarter
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1801				Jan 8 01:13
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00h00m	Jan 14 16:35	Jan 21 17:33	Jan 29 22:30	Feb 6 12:08
	Feb 13 03:39	Feb 20 13:09	Feb 28 15:21	Mar 7 20:13
	Mar 14 15:32 P	Mar 22 09:21	Mar 30 05:25 t	Apr 6 02:29
	Apr 13 04:24 P	Apr 21 04:31	Apr 28 16:30	May 5 08:19
	May 12 18:08	May 20 21:32	May 28 01:01	Jun 3 15:05
	Jun 11 08:33	Jun 19 11:48	Jun 26 07:56	Jul 2 23:53
	Jul 10 23:27	Jul 18 23:07	Jul 25 14:30	Aug 1 11:26
	Aug 9 14:36	Aug 17 07:49	Aug 23 21:56	Aug 31 02:04
	Sep 8 05:36 P	Sep 15 14:42	Sep 22 07:16 t	Sep 29 19:42
	Oct 7 19:55 P	Oct 14 20:59	Oct 21 19:09	Oct 29 15:40
	Nov 6 09:06	Nov 13 03:57	Nov 20 09:48	Nov 28 12:34
	Dec 5 21:06	Dec 12 12:47	Dec 20 03:00	Dec 28 08:22

1802	Jan 4 08:13	Jan 11 00:12	Jan 18 22:00	Jan 27 01:10
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00h00m	Feb 2 18:49	Feb 9 14:16	Feb 17 17:23	Feb 25 14:02
	Mar 4 05:08 T	Mar 11 06:36	Mar 19 11:24 p	Mar 26 23:12
	Apr 2 15:21	Apr 10 00:28	Apr 18 02:37	Apr 25 05:42
	May 2 01:42	May 9 18:55	May 17 14:35	May 24 10:52
	May 31 12:42	Jun 8 12:48	Jun 15 23:52	Jun 22 16:03
	Jun 30 01:03	Jul 8 05:04	Jul 15 07:36	Jul 21 22:29
	Jul 29 15:12	Aug 6 19:02	Aug 13 14:54	Aug 20 07:19
	Aug 28 07:03 A	Sep 5 06:40	Sep 11 22:43 p	Sep 18 19:32
	Sep 26 23:48	Oct 4 16:24	Oct 11 07:44	Oct 18 11:43
	Oct 26 16:18	Nov 3 00:54	Nov 9 18:31	Nov 17 07:35
	Nov 25 07:42	Dec 2 08:54	Dec 9 07:32	Dec 17 05:30
	Dec 24 21:39	Dec 31 17:06		

1803			Jan 7 23:07	Jan 16 03:03
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00h00m	Jan 23 10:11	Jan 30 02:15	Feb 6 16:52 n	Feb 14 22:00
	Feb 21 21:19 T	Feb 28 13:01	Mar 8 11:34 n	Mar 16 13:08
	Mar 23 07:03	Mar 30 01:50	Apr 7 05:27	Apr 15 00:22
	Apr 21 15:40	Apr 28 16:46	May 6 21:12	May 14 08:16
	May 20 23:54	May 28 09:20	Jun 5 10:24	Jun 12 13:48
	Jun 19 08:47	Jun 27 02:43	Jul 4 21:24	Jul 11 18:15
	Jul 18 19:23	Jul 26 19:57	Aug 3 06:53 n	Aug 9 23:06
	Aug 17 08:25 A	Aug 25 12:19	Sep 1 15:33 n	Sep 8 05:53
	Sep 15 23:53	Sep 24 03:22	Oct 1 00:02	Oct 7 16:02
	Oct 15 17:10	Oct 23 16:46	Oct 30 09:02	Nov 6 06:24
	Nov 14 11:11	Nov 22 04:15	Nov 28 19:13	Dec 6 00:49
	Dec 14 04:52	Dec 21 13:50	Dec 28 07:12	

1804				Jan 4 21:57
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00h00m	Jan 12 21:12	Jan 19 21:58	Jan 26 21:12 p	Feb 3 19:45
	Feb 11 11:24 A	Feb 18 05:37	Feb 25 12:53	Mar 4 16:06
	Mar 11 23:02	Mar 18 13:51	Mar 26 05:27	Apr 3 09:29
	Apr 10 08:18	Apr 16 23:34	Apr 24 22:00	May 2 23:05
	May 9 15:58	May 16 11:15	May 24 13:48	Jun 1 08:54
	Jun 7 23:06	Jun 15 00:58	Jun 23 04:24	Jun 30 15:38
	Jul 7 06:49	Jul 14 16:34	Jul 22 17:32 p	Jul 29 20:34
	Aug 5 16:05 H	Aug 13 09:44	Aug 21 05:08	Aug 28 01:14

Sep 4	03:37	Sep 12	03:54	Sep 19	15:26	Sep 26	07:14
Oct 3	17:47	Oct 11	22:06	Oct 19	01:04	Oct 25	15:56
Nov 2	10:36	Nov 10	15:04	Nov 17	10:47	Nov 24	04:09
Dec 2	05:27	Dec 10	05:38	Dec 16	21:14	Dec 23	20:01

1805 00h00m	Jan 1	00:56 P	Jan 8	17:18	Jan 15	08:39 t	Jan 22	14:57
	Jan 30	19:12 P	Feb 7	02:23	Feb 13	20:56	Feb 21	11:38
	Mar 1	10:43	Mar 8	09:48	Mar 15	09:57	Mar 23	08:16
	Mar 30	22:59	Apr 6	16:34	Apr 13	23:44	Apr 22	03:02
	Apr 29	08:30	May 5	23:43	May 13	14:21	May 21	18:36
	May 28	16:16	Jun 4	08:08	Jun 12	05:40	Jun 20	06:36
	Jun 26	23:17 P	Jul 3	18:35	Jul 11	21:08 t	Jul 19	15:33
	Jul 26	06:28 P	Aug 2	07:46	Aug 10	11:58	Aug 17	22:28
	Aug 24	14:40	Sep 1	00:00	Sep 9	01:36	Sep 16	04:30
	Sep 23	00:41	Sep 30	18:53	Oct 8	14:02	Oct 15	10:50
	Oct 22	13:25	Oct 30	15:07	Nov 7	01:41	Nov 13	18:32
	Nov 21	05:22	Nov 29	10:50	Dec 6	13:00	Dec 13	04:32
	Dec 21	00:07 A	Dec 29	04:22				

Year	New Moon	First Quarter	Full Moon	Last Quarter
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1806 00h00m			Jan 5	00:07 p	Jan 11	17:30
	Jan 19	20:04	Jan 27	18:45	Feb 3	10:57
	Feb 18	15:04	Feb 26	05:49	Mar 4	21:27
	Mar 20	07:32	Mar 27	13:59	Apr 3	08:00
	Apr 18	20:57	Apr 25	20:05	May 2	19:16
	May 18	07:39	May 25	01:20	Jun 1	07:52
	Jun 16	16:21 T	Jun 23	07:06	Jun 30	21:56 n
	Jul 15	23:46	Jul 22	14:47	Jul 30	13:07
	Aug 14	06:48	Aug 21	01:35	Aug 29	04:47
	Sep 12	14:23	Sep 19	16:12	Sep 27	20:23
	Oct 11	23:36	Oct 19	10:25	Oct 27	11:30
	Nov 10	11:26	Nov 18	07:06	Nov 26	01:50 n
	Dec 10	02:18 A	Dec 18	04:28	Dec 25	15:01 n

1807 00h00m					Jan 1	07:02
	Jan 8	19:44	Jan 17	00:37	Jan 24	02:44
	Feb 7	14:29	Feb 15	17:52	Feb 22	13:01
	Mar 9	09:03	Mar 17	07:14	Mar 23	22:16
	Apr 8	02:11	Apr 15	16:39	Apr 22	07:13
	May 7	17:03	May 14	22:56	May 21	16:38 p
	Jun 6	05:23 H	Jun 13	03:30	Jun 20	03:11
	Jul 5	15:19	Jul 12	07:59	Jul 19	15:17
	Aug 3	23:33	Aug 10	13:57	Aug 18	05:14
	Sep 2	07:05	Sep 8	22:44	Sep 16	21:02
	Oct 1	15:04	Oct 8	11:09	Oct 16	14:17
	Oct 31	00:27	Nov 7	03:28	Nov 15	08:01 p
	Nov 29	11:48 H	Dec 6	23:13	Dec 15	00:51
	Dec 29	01:12				

1808 00h00m			Jan 5	21:01	Jan 13	15:42	Jan 20	11:19
	Jan 27	16:23	Feb 4	18:46	Feb 12	04:09	Feb 18	20:02
	Feb 26	08:57	Mar 5	14:07	Mar 12	14:32	Mar 19	06:01
	Mar 27	02:17	Apr 4	05:30	Apr 10	23:27	Apr 17	17:36
	Apr 25	19:26	May 3	16:40	May 10	07:34 t	May 17	06:57
	May 25	11:16 P	Jun 2	00:20	Jun 8	15:33	Jun 15	22:09

Jun 24	00:57	Jul 1	05:48	Jul 8	00:07	Jul 15	15:00
Jul 23	12:24	Jul 30	10:28	Aug 6	10:11	Aug 14	08:47
Aug 21	22:13	Aug 28	15:42	Sep 4	22:40	Sep 13	02:27
Sep 20	07:21	Sep 26	22:49	Oct 4	14:08	Oct 12	18:55
Oct 19	16:40 P	Oct 26	08:55	Nov 3	08:12 t	Nov 11	09:27
Nov 18	02:42 P	Nov 24	22:51	Dec 3	03:27	Dec 10	21:46
Dec 17	13:34	Dec 24	16:45				

1809  
00h00m

Jan 16	01:21	Jan 23	13:35	Jan 31	14:23	Feb 7	16:28
Feb 14	14:14	Feb 22	11:15	Mar 2	04:10	Mar 8	23:54
Mar 16	04:29	Mar 24	07:23	Mar 31	15:28	Apr 7	07:12
Apr 14	19:58 A	Apr 23	00:25	Apr 30	00:38 p	May 6	15:23
May 14	12:00	May 22	13:50	May 29	08:16	Jun 5	01:27
Jun 13	03:41	Jun 20	23:59	Jun 27	15:08	Jul 4	14:04
Jul 12	18:17	Jul 20	07:32	Jul 26	22:19	Aug 3	05:26
Aug 11	07:38	Aug 18	13:25	Aug 25	07:03	Sep 1	23:03
Sep 9	19:55	Sep 16	18:47	Sep 23	18:28	Oct 1	18:00
Oct 9	07:28 T	Oct 16	00:59	Oct 23	09:08 p	Oct 31	13:07
Nov 7	18:31	Nov 14	09:25	Nov 22	02:43	Nov 30	07:07
Dec 7	05:12	Dec 13	21:12	Dec 21	21:58	Dec 29	22:51

1810  
00h00m

Jan 5	15:42	Jan 12	12:40	Jan 20	17:18	Jan 28	11:27
Feb 4	02:23	Feb 11	07:05	Feb 19	11:13	Feb 26	20:51
Mar 5	13:37	Mar 13	02:56	Mar 21	02:41 n	Mar 28	03:44
Apr 4	01:42 A	Apr 11	22:33	Apr 19	15:09 n	Apr 26	09:26
May 3	14:44	May 11	16:38	May 19	00:47	May 25	15:21
Jun 2	04:36	Jun 10	08:21	Jun 17	08:20	Jun 23	22:48
Jul 1	19:10	Jul 9	21:16	Jul 16	14:56	Jul 23	08:45
Jul 31	10:16	Aug 8	07:26	Aug 14	21:50	Aug 21	21:45
Aug 30	01:35	Sep 6	15:22	Sep 13	06:12 n	Sep 20	13:58
Sep 28	16:35 A	Oct 5	22:03	Oct 12	16:51 n	Oct 20	09:03
Oct 28	06:40	Nov 4	04:41	Nov 11	06:12	Nov 19	05:55
Nov 26	19:30	Dec 3	12:33	Dec 10	22:12	Dec 19	02:44
Dec 26	07:09						

Year            New Moon            First Quarter            Full Moon            Last Quarter  
Delta T

1811  
00h00m

Jan 1	22:34	Jan 9	16:23	Jan 17	21:22		
Jan 24	17:58	Jan 31	11:09	Feb 8	11:41	Feb 16	12:17
Feb 23	04:18	Mar 2	02:08	Mar 10	06:29 p	Mar 17	23:11
Mar 24	14:20 T	Mar 31	19:00	Apr 8	23:07	Apr 16	06:47
Apr 23	00:18	Apr 30	13:00	May 8	12:37	May 15	12:21
May 22	10:40	May 30	07:09	Jun 6	23:07	Jun 13	17:15
Jun 20	22:03	Jun 29	00:20	Jul 6	07:31	Jul 12	22:48
Jul 20	11:10	Jul 28	15:40	Aug 4	14:59	Aug 11	06:13
Aug 19	02:15	Aug 27	04:44	Sep 2	22:35 p	Sep 9	16:36
Sep 17	18:51 A	Sep 25	15:40	Oct 2	07:05	Oct 9	06:48
Oct 17	11:53	Oct 25	01:01	Oct 31	17:03	Nov 8	01:01
Nov 16	04:12	Nov 23	09:23	Nov 30	04:58	Dec 7	22:17
Dec 15	19:07	Dec 22	17:29	Dec 29	19:13		

1812  
00h00m

				Jan 6	20:24		
Jan 14	08:27	Jan 21	02:01	Jan 28	11:51	Feb 5	16:54
Feb 12	20:15 P	Feb 19	11:42	Feb 27	06:04 t	Mar 6	10:00
Mar 13	06:33 P	Mar 19	23:08	Mar 28	00:21	Apr 4	23:08

Apr 11	15:29	Apr 18	12:40	Apr 26	17:07	May 4	08:34
May 10	23:36	May 18	04:11	May 26	07:32	Jun 2	15:08
Jun 9	07:50	Jun 16	21:05	Jun 24	19:36	Jul 1	19:57
Jul 8	17:19	Jul 16	14:29	Jul 24	05:53	Jul 31	00:25
Aug 7	05:00 P	Aug 15	07:31	Aug 22	15:03 t	Aug 29	06:03
Sep 5	19:20 P	Sep 13	23:35	Sep 20	23:45	Sep 27	14:23
Oct 5	11:58	Oct 13	14:12	Oct 20	08:36	Oct 27	02:37
Nov 4	05:58	Nov 12	03:00	Nov 18	18:15	Nov 25	19:07
Dec 4	00:09	Dec 11	13:44	Dec 18	05:19	Dec 25	15:06

1813 00h00m	Jan 2	17:26	Jan 9	22:35	Jan 16	18:14	Jan 24	12:46
	Feb 1	08:50 A	Feb 8	06:17	Feb 15	08:57 p	Feb 23	09:59
	Mar 2	21:43	Mar 9	13:54	Mar 17	00:55	Mar 25	04:54
	Apr 1	08:00	Apr 7	22:30	Apr 15	17:19	Apr 23	20:24
	Apr 30	16:12	May 7	08:50	May 15	09:21	May 23	08:05
	May 29	23:19	Jun 5	21:14	Jun 14	00:32	Jun 21	16:19
	Jun 28	06:30	Jul 5	11:43	Jul 13	14:30	Jul 20	22:05
	Jul 27	14:50 T	Aug 4	04:07	Aug 12	03:03 p	Aug 19	02:48
	Aug 26	01:10	Sep 2	22:00	Sep 10	14:11	Sep 17	08:04
	Sep 24	14:03	Oct 2	16:37	Oct 10	00:20	Oct 16	15:21
	Oct 24	05:40	Nov 1	10:42	Nov 8	10:08	Nov 15	01:46
	Nov 22	23:45	Dec 1	02:53	Dec 7	20:18	Dec 14	15:49
	Dec 22	19:14	Dec 30	16:13				

1814 00h00m					Jan 6	07:14 n	Jan 13	09:12
	Jan 21	14:24 A	Jan 29	02:35	Feb 4	19:00 n	Feb 12	05:00
	Feb 20	07:25	Feb 27	10:39	Mar 6	07:26	Mar 14	01:41
	Mar 21	21:14	Mar 28	17:27	Apr 4	20:31	Apr 12	21:26
	Apr 20	07:55	Apr 27	00:03	May 4	10:25	May 12	14:38
	May 19	16:20	May 26	07:28	Jun 3	01:13	Jun 11	04:27
	Jun 17	23:33	Jun 24	16:34	Jul 2	16:37 n	Jul 10	14:59
	Jul 17	06:32 T	Jul 24	04:09	Aug 1	07:57	Aug 8	22:59
	Aug 15	14:09	Aug 22	18:48	Aug 30	22:27	Sep 7	05:32
	Sep 13	23:13	Sep 21	12:33	Sep 29	11:44	Oct 6	11:47
	Oct 13	10:35	Oct 21	08:32	Oct 29	00:00	Nov 4	18:49
	Nov 12	00:59	Nov 20	05:00	Nov 27	11:40	Dec 4	03:36
	Dec 11	18:30	Dec 20	00:02	Dec 26	23:01 p		

1815 00h00m							Jan 2	14:57
	Jan 10	14:05 A	Jan 18	16:13	Jan 25	10:00	Feb 1	05:17
	Feb 9	09:45	Feb 17	04:58	Feb 23	20:30	Mar 2	22:22
	Mar 11	03:32	Mar 18	14:27	Mar 25	06:43	Apr 1	17:12
	Apr 9	18:23	Apr 16	21:21	Apr 23	17:15	May 1	12:15
	May 9	06:18	May 16	02:43	May 23	04:52	May 31	06:03
	Jun 7	15:53	Jun 14	07:53	Jun 21	18:01 t	Jun 29	21:46
	Jul 6	23:52 T	Jul 13	14:17	Jul 21	08:39	Jul 29	11:09
	Aug 5	07:03	Aug 11	23:18	Aug 20	00:15	Aug 27	22:24
	Sep 3	14:21	Sep 10	11:57	Sep 18	16:09	Sep 26	07:49
	Oct 2	22:45	Oct 10	04:30	Oct 18	07:50	Oct 25	15:53
	Nov 1	09:17	Nov 9	00:16	Nov 16	22:53	Nov 23	23:20
	Nov 30	22:40	Dec 8	21:41	Dec 16	12:54 t	Dec 23	07:09
	Dec 30	14:54 P						

Year	New Moon	First Quarter	Full Moon	Last Quarter
Delta T				

1816 00h00m		Jan 7	18:48	Jan 15	01:28	Jan 21	16:25
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Jan 29	09:03	Feb 6	13:43	Feb 13	12:23	Feb 20	03:56
Feb 28	03:43	Mar 7	05:06	Mar 13	21:56	Mar 20	17:48
Mar 28	21:31	Apr 5	16:25	Apr 12	06:43	Apr 19	09:35
Apr 27	13:28	May 5	00:04	May 11	15:35	May 19	02:30
May 27	03:02 A	Jun 3	05:15	Jun 10	01:17 t	Jun 17	19:49
Jun 25	14:10	Jul 2	09:31	Jul 9	12:25	Jul 17	12:53
Jul 24	23:15	Jul 31	14:31	Aug 8	01:23	Aug 16	05:04
Aug 23	07:09	Aug 29	21:44	Sep 6	16:20	Sep 14	19:43
Sep 21	14:57	Sep 28	08:16	Oct 6	09:08	Oct 14	08:21
Oct 20	23:42	Oct 27	22:41	Nov 5	03:01	Nov 12	18:54
Nov 19	10:09 T	Nov 26	16:52	Dec 4	20:43 p	Dec 12	03:46
Dec 18	22:34	Dec 26	13:53				

1817  
00h00m

				Jan 3	12:49	Jan 10	11:50
Jan 17	12:48	Jan 25	11:56	Feb 2	02:31	Feb 8	20:01
Feb 16	04:32	Feb 24	08:41	Mar 3	13:47	Mar 10	05:04
Mar 17	21:19	Mar 26	02:07	Apr 1	23:13	Apr 8	15:30
Apr 16	14:27	Apr 24	15:20	May 1	07:29 n	May 8	03:35
May 16	06:55 A	May 24	00:37	May 30	15:17 n	Jun 6	17:35
Jun 14	21:44	Jun 22	07:04	Jun 28	23:19	Jul 6	09:30
Jul 14	10:22	Jul 21	12:02	Jul 28	08:27	Aug 5	02:57
Aug 12	21:05	Aug 19	16:53	Aug 26	19:37	Sep 3	21:01
Sep 11	06:40	Sep 17	22:59	Sep 25	09:38	Oct 3	14:31
Oct 10	16:02	Oct 17	07:31	Oct 25	02:40	Nov 2	06:26
Nov 9	01:52 T	Nov 15	19:29	Nov 23	21:43 n	Dec 1	20:11
Dec 8	12:25	Dec 15	11:24	Dec 23	16:58	Dec 31	07:36

1818  
00h00m

Jan 6	23:43	Jan 14	06:52	Jan 22	10:38	Jan 29	16:55
Feb 5	11:53	Feb 13	04:16	Feb 21	01:44	Feb 28	00:41
Mar 7	01:11	Mar 15	01:16	Mar 22	14:10	Mar 29	07:43
Apr 5	15:47	Apr 13	19:52	Apr 21	00:13 p	Apr 27	15:03
May 5	07:23 A	May 13	11:03	May 20	08:25	May 26	23:46
Jun 3	23:11	Jun 11	22:50	Jun 18	15:28	Jun 25	10:48
Jul 3	14:22	Jul 11	07:43	Jul 17	22:19	Jul 25	00:39
Aug 2	04:28	Aug 9	14:29	Aug 16	06:08	Aug 23	17:14
Aug 31	17:28	Sep 7	20:08	Sep 14	16:08	Sep 22	11:49
Sep 30	05:38	Oct 7	01:54	Oct 14	05:14 p	Oct 22	07:16
Oct 29	17:11 T	Nov 5	09:09	Nov 12	21:33	Nov 21	02:17
Nov 28	04:14	Dec 4	19:10	Dec 12	16:14	Dec 20	19:32
Dec 27	14:54						

1819  
00h00m

		Jan 3	08:43	Jan 11	11:44	Jan 19	09:54
Jan 26	01:24	Feb 2	01:37	Feb 10	06:30	Feb 17	20:53
Feb 24	12:08	Mar 3	20:42	Mar 11	23:13	Mar 19	04:49
Mar 25	23:31 P	Apr 2	16:21	Apr 10	13:08 t	Apr 17	10:47
Apr 24	11:47 P	May 2	11:09	May 10	00:03	May 16	16:13
May 24	00:59	Jun 1	04:05	Jun 8	08:29	Jun 14	22:33
Jun 22	15:03	Jun 30	18:31	Jul 7	15:24	Jul 14	06:58
Jul 22	05:53	Jul 30	06:14	Aug 5	22:03	Aug 12	18:18
Aug 20	21:16	Aug 28	15:28	Sep 4	05:39	Sep 11	08:54
Sep 19	12:45 P	Sep 26	22:54	Oct 3	15:10 t	Oct 11	02:44
Oct 19	03:40 P	Oct 26	05:38	Nov 2	03:15	Nov 9	23:04
Nov 17	17:25	Nov 24	12:52	Dec 1	18:00	Dec 9	20:23
Dec 17	05:49	Dec 23	21:44	Dec 31	11:09		

1820  
00h00m

						Jan 8	16:31
Jan 15	17:03	Jan 22	08:53	Jan 30	05:58	Feb 7	09:29
Feb 14	03:32	Feb 20	22:27	Feb 29	01:05	Mar 7	22:21
Mar 14	13:31 T	Mar 21	14:07	Mar 29	18:51 p	Apr 6	07:25

Apr 12	23:14	Apr 20	07:20	Apr 28	09:53	May 5	13:45
May 12	09:05	May 20	01:18	May 27	21:47	Jun 3	18:43
Jun 10	19:39	Jun 18	19:02	Jun 26	07:07	Jul 2	23:41
Jul 10	07:41	Jul 18	11:29	Jul 25	15:01	Aug 1	05:57
Aug 8	21:46	Aug 17	01:57	Aug 23	22:33	Aug 30	14:40
Sep 7	13:50 A	Sep 15	14:14	Sep 22	06:41 p	Sep 29	02:53
Oct 7	07:02	Oct 15	00:38	Oct 21	16:00	Oct 28	19:11
Nov 6	00:07	Nov 13	09:40	Nov 20	02:59	Nov 27	15:13
Dec 5	16:01	Dec 12	17:59	Dec 19	16:02	Dec 27	13:17

Year Delta T	New Moon		First Quarter		Full Moon		Last Quarter	
1821 00h00m	Jan 4	06:17	Jan 11	02:13	Jan 18	07:24	Jan 26	10:55
	Feb 2	18:53	Feb 9	11:05	Feb 17	00:47 n	Feb 25	05:51
	Mar 4	05:50 T	Mar 10	21:18	Mar 18	19:01 n	Mar 26	20:56
	Apr 2	15:14	Apr 9	09:25	Apr 17	12:30	Apr 25	08:07
	May 1	23:28	May 8	23:38	May 17	04:03	May 24	16:00
	May 31	07:20	Jun 7	15:41	Jun 15	17:14	Jun 22	21:33
	Jun 29	15:54	Jul 7	08:51	Jul 15	04:26	Jul 22	02:02
	Jul 29	02:19	Aug 6	02:15	Aug 13	14:14 n	Aug 20	06:54
	Aug 27	15:19 A	Sep 4	19:06	Sep 11	23:18 n	Sep 18	13:44
	Sep 26	06:59	Oct 4	10:50	Oct 11	08:13	Oct 17	23:56
	Oct 26	00:37	Nov 3	00:57	Nov 9	17:34	Nov 16	14:21
	Nov 24	19:03	Dec 2	13:00	Dec 9	03:57	Dec 16	08:45
	Dec 24	13:06	Dec 31	22:54				
1822 00h00m					Jan 7	15:53	Jan 15	05:46
	Jan 23	05:37	Jan 30	07:03	Feb 6	05:34 p	Feb 14	03:21
	Feb 21	19:48 A	Feb 28	14:25	Mar 7	20:45	Mar 15	23:30
	Mar 23	07:16	Mar 29	22:09	Apr 6	12:45	Apr 14	16:44
	Apr 21	16:16	Apr 28	07:14	May 6	04:48	May 14	06:19
	May 20	23:39	May 27	18:16	Jun 4	20:21	Jun 12	16:15
	Jun 19	06:33	Jun 26	07:29	Jul 4	10:58	Jul 11	23:12
	Jul 18	14:07	Jul 25	22:51	Aug 3	00:23 p	Aug 10	04:24
	Aug 16	23:21 H	Aug 24	16:07	Sep 1	12:27	Sep 8	09:20
	Sep 15	10:57	Sep 23	10:42	Sep 30	23:17	Oct 7	15:32
	Oct 15	01:18	Oct 23	05:32	Oct 30	09:25	Nov 6	00:21
	Nov 13	18:20	Nov 21	23:09	Nov 28	19:30	Dec 5	12:34
	Dec 13	13:24	Dec 21	14:14	Dec 28	06:06		
1823 00h00m							Jan 4	04:15
	Jan 12	09:02 P	Jan 20	02:10	Jan 26	17:24 t	Feb 2	22:49
	Feb 11	03:19 P	Feb 18	11:16	Feb 25	05:19	Mar 4	19:03
	Mar 12	18:45	Mar 19	18:27	Mar 26	17:47	Apr 3	15:16
	Apr 11	06:50	Apr 18	00:49	Apr 25	06:57	May 3	09:46
	May 10	16:10	May 17	07:28	May 24	21:03	Jun 2	01:20
	Jun 8	23:47	Jun 15	15:23	Jun 23	12:05	Jul 1	13:35
	Jul 8	06:45 P	Jul 15	01:26	Jul 23	03:34 t	Jul 30	22:56
	Aug 6	13:58 P	Aug 13	14:24	Aug 21	18:44	Aug 29	06:18
	Sep 4	22:17	Sep 12	06:41	Sep 20	08:55	Sep 27	12:47
	Oct 4	08:29	Oct 12	01:52	Oct 19	21:57	Oct 26	19:28
	Nov 2	21:23	Nov 10	22:35	Nov 18	10:07	Nov 25	03:22
	Dec 2	13:26	Dec 10	18:48	Dec 17	21:47	Dec 24	13:19
1824 00h00m	Jan 1	08:11 A	Jan 9	12:42	Jan 16	09:00 p	Jan 23	01:59
	Jan 31	04:01	Feb 8	03:16	Feb 14	19:38	Feb 21	17:30



Feb 29	22:51	Mar 8	14:19	Mar 15	05:45	Mar 22	11:18
Mar 30	15:07	Apr 6	22:20	Apr 13	15:46	Apr 21	06:09
Apr 29	04:22	May 6	04:11	May 13	02:29	May 21	00:33
May 28	15:00	Jun 4	09:07	Jun 11	14:37	Jun 19	17:22
Jun 26	23:42 T	Jul 3	14:35	Jul 11	04:25 p	Jul 19	08:04
Jul 26	07:15	Aug 1	22:02	Aug 9	19:38	Aug 17	20:37
Aug 24	14:29	Aug 31	08:42	Sep 8	11:38	Sep 16	07:13
Sep 22	22:20	Sep 29	23:21	Oct 8	03:45	Oct 15	16:12
Oct 22	07:48	Oct 29	17:44	Nov 6	19:27	Nov 14	00:04
Nov 20	19:47	Nov 28	14:42	Dec 6	10:17 n	Dec 13	07:40
Dec 20	10:39 A	Dec 28	12:20				

1825  
00h00m

				Jan 4	23:45 n	Jan 11	16:03
Jan 19	03:54	Jan 27	08:38	Feb 3	11:30	Feb 10	02:11
Feb 17	22:19	Feb 26	01:55	Mar 4	21:33	Mar 11	14:36
Mar 19	16:30	Mar 27	15:15	Apr 3	06:26	Apr 10	05:10
Apr 18	09:19	Apr 26	00:35	May 2	14:56	May 9	21:17
May 18	00:02	May 25	06:48	May 31	23:55 p	Jun 8	14:16
Jun 16	12:23 A	Jun 23	11:17	Jun 30	10:07	Jul 8	07:30
Jul 15	22:30	Jul 22	15:41	Jul 29	22:03	Aug 7	00:21
Aug 14	07:02	Aug 20	21:36	Aug 28	12:01	Sep 5	16:08
Sep 12	14:56	Sep 19	06:22	Sep 27	04:05	Oct 5	06:11
Oct 11	23:16	Oct 18	18:51	Oct 26	21:46	Nov 3	18:05
Nov 10	08:57	Nov 17	11:14	Nov 25	15:59 p	Dec 3	03:57
Dec 9	20:27 H	Dec 17	07:01	Dec 25	09:14		

Year  
Delta T

New Moon                      First Quarter                      Full Moon                      Last Quarter

1826  
00h00m

						Jan 1	12:25
Jan 8	09:46	Jan 16	04:48	Jan 24	00:15	Jan 30	20:23
Feb 7	00:37	Feb 15	02:26	Feb 22	12:40	Mar 1	04:44
Mar 8	16:41	Mar 16	21:39	Mar 23	22:49	Mar 30	14:08
Apr 7	09:29	Apr 15	12:58	Apr 22	07:25	Apr 29	01:01
May 7	02:13	May 15	00:08	May 21	15:12 t	May 28	13:44
Jun 5	17:53 P	Jun 13	07:53	Jun 19	22:54	Jun 27	04:29
Jul 5	07:41	Jul 12	13:30	Jul 19	07:18	Jul 26	21:11
Aug 3	19:27	Aug 10	18:19	Aug 17	17:18	Aug 25	15:12
Sep 2	05:42	Sep 8	23:44	Sep 16	05:51	Sep 24	09:24
Oct 1	15:19	Oct 8	06:58	Oct 15	21:32	Oct 24	02:34
Oct 31	01:05 P	Nov 6	17:09	Nov 14	15:54 t	Nov 22	17:46
Nov 29	11:25 P	Dec 6	07:04	Dec 14	11:27	Dec 22	06:34
Dec 28	22:23						

1827  
00h00m

		Jan 5	00:48	Jan 13	06:11	Jan 20	17:00
Jan 27	10:00	Feb 3	21:20	Feb 11	22:39	Feb 19	01:24
Feb 25	22:29	Mar 5	18:38	Mar 13	12:20	Mar 20	08:31
Mar 27	12:09	Apr 4	14:28	Apr 11	23:25	Apr 18	15:19
Apr 26	03:01 A	May 4	07:21	May 11	08:22 p	May 17	22:56
May 25	18:37	Jun 2	20:50	Jun 9	15:48	Jun 16	08:27
Jun 24	10:06	Jul 2	07:12	Jul 8	22:35	Jul 15	20:40
Jul 24	00:50	Jul 31	15:05	Aug 7	05:45	Aug 14	11:53
Aug 22	14:34	Aug 29	21:22	Sep 5	14:34	Sep 13	05:40
Sep 21	03:24	Sep 28	03:05	Oct 5	02:07	Oct 13	01:03
Oct 20	15:31 H	Oct 27	09:33	Nov 3	16:57 p	Nov 11	20:44
Nov 19	03:03	Nov 25	18:06	Dec 3	10:40	Dec 11	15:18
Dec 18	14:02	Dec 25	05:47				

1828			Jan 2	06:00		Jan 10	07:24	
00h00m								
	Jan 17	00:34	Jan 23	20:56	Feb 1	01:18	Feb 8	20:10
	Feb 15	11:01	Feb 22	14:51	Mar 1	19:06	Mar 9	05:29
	Mar 15	21:48	Mar 23	10:08	Mar 31	10:24 n	Apr 7	12:09
	Apr 14	09:19 H	Apr 22	05:17	Apr 29	22:43 n	May 6	17:29
	May 13	21:47	May 21	23:08	May 29	08:15	Jun 4	23:00
	Jun 12	11:13	Jun 20	14:54	Jun 27	15:46	Jul 4	06:05
	Jul 12	01:35	Jul 20	04:10	Jul 26	22:27	Aug 2	15:45
	Aug 10	16:48	Aug 18	14:51	Aug 25	05:30	Sep 1	04:39
	Sep 9	08:30	Sep 16	23:21	Sep 23	14:04 n	Sep 30	20:58
	Oct 9	00:05 A	Oct 16	06:33	Oct 23	00:56 n	Oct 30	16:19
	Nov 7	14:47	Nov 14	13:33	Nov 21	14:25	Nov 29	13:34
	Dec 7	04:04	Dec 13	21:33	Dec 21	06:26	Dec 29	10:44

1829	Jan 5	15:58	Jan 12	07:26	Jan 20	00:27	Jan 28	05:34
00h00m								
	Feb 4	02:45	Feb 10	19:36	Feb 18	19:28	Feb 26	20:33
	Mar 5	12:49	Mar 12	09:58	Mar 20	13:58 p	Mar 28	07:24
	Apr 3	22:25 T	Apr 11	02:08	Apr 19	06:22	Apr 26	14:52
	May 3	07:54	May 10	19:33	May 18	19:46	May 25	20:16
	Jun 1	17:47	Jun 9	13:22	Jun 17	06:17	Jun 24	00:59
	Jul 1	04:50	Jul 9	06:36	Jul 16	14:50	Jul 23	06:22
	Jul 30	17:46	Aug 7	22:19	Aug 14	22:33	Aug 21	13:40
	Aug 29	08:57	Sep 6	11:59	Sep 13	06:27 p	Sep 20	00:01
	Sep 28	01:55 A	Oct 5	23:37	Oct 12	15:16	Oct 19	14:17
	Oct 27	19:28	Nov 4	09:35	Nov 11	01:30	Nov 18	08:38
	Nov 26	12:19	Dec 3	18:23	Dec 10	13:31	Dec 18	06:01
	Dec 26	03:37						

1830			Jan 2	02:38	Jan 9	03:39	Jan 17	04:13
00h00m								
	Jan 24	17:07	Jan 31	11:01	Feb 7	19:56	Feb 16	00:42
	Feb 23	04:50 P	Mar 1	20:15	Mar 9	13:41 t	Mar 17	17:45
	Mar 24	14:51 P	Mar 31	07:02	Apr 8	07:30	Apr 16	06:49
	Apr 22	23:25	Apr 29	19:51	May 7	23:59	May 15	16:14
	May 22	07:10	May 29	10:45	Jun 6	14:18	Jun 13	22:50
	Jun 20	15:04	Jun 28	03:17	Jul 6	02:30	Jul 13	03:43
	Jul 20	00:20	Jul 27	20:41	Aug 4	13:04	Aug 11	08:15
	Aug 18	11:57 P	Aug 26	14:04	Sep 2	22:38 t	Sep 9	13:57
	Sep 17	02:23 P	Sep 25	06:45	Oct 2	07:47	Oct 8	22:21
	Oct 16	19:18	Oct 24	22:05	Oct 31	17:02	Nov 7	10:38
	Nov 15	13:41	Nov 23	11:31	Nov 30	02:58	Dec 7	03:07
	Dec 15	08:15	Dec 22	22:41	Dec 29	14:05		

Year            New Moon            First Quarter            Full Moon            Last Quarter  
Delta T

1831						Jan 5	23:00	
00h00m								
	Jan 14	01:46	Jan 21	07:41	Jan 28	02:47	Feb 4	20:27
	Feb 12	17:14 A	Feb 19	15:13	Feb 26	17:03 p	Mar 6	17:24
	Mar 14	05:59	Mar 20	22:26	Mar 28	08:26	Apr 5	12:07
	Apr 12	16:01	Apr 19	06:27	Apr 27	00:16	May 5	03:33
	May 11	23:57	May 18	16:08	May 26	15:57	Jun 3	15:18
	Jun 10	06:51	Jun 17	03:58	Jun 25	07:02	Jul 2	23:45
	Jul 9	13:52	Jul 16	18:07	Jul 24	21:11	Aug 1	05:48
	Aug 7	22:09 T	Aug 15	10:28	Aug 23	10:08 p	Aug 30	10:49
	Sep 6	08:31	Sep 14	04:38	Sep 21	21:49	Sep 28	16:20
	Oct 5	21:33	Oct 13	23:46	Oct 21	08:30	Oct 27	23:48
	Nov 4	13:22	Nov 12	18:30	Nov 19	18:44	Nov 26	10:16

	Dec 4	07:39		Dec 12	11:16		Dec 19	05:09		Dec 26	00:12
1832 00h00m	Jan 3	03:17		Jan 11	00:58		Jan 17	16:04 n		Jan 24	17:17
	Feb 1	22:30 A		Feb 9	11:26		Feb 16	03:33 n		Feb 23	12:37
	Mar 2	15:26		Mar 9	19:22		Mar 16	15:30		Mar 24	08:48
	Apr 1	05:06		Apr 8	01:51		Apr 15	03:59		Apr 23	04:11
	Apr 30	15:37		May 7	08:01		May 14	17:19		May 22	21:17
	May 29	23:53		Jun 5	14:57		Jun 13	07:43		Jun 21	11:15
	Jun 28	07:01		Jul 4	23:37		Jul 12	23:00 n		Jul 20	22:09
	Jul 27	14:02 T		Aug 3	10:55		Aug 11	14:33 n		Aug 19	06:37
	Aug 25	21:46		Sep 2	01:30		Sep 10	05:31		Sep 17	13:40
	Sep 24	07:00		Oct 1	19:27		Oct 9	19:25		Oct 16	20:20
	Oct 23	18:33		Oct 31	15:49		Nov 8	08:15		Nov 15	03:38
	Nov 22	09:04		Nov 30	12:46		Dec 7	20:21		Dec 14	12:29
	Dec 22	02:36		Dec 30	08:12						

1833 00h00m							Jan 6	07:53 p		Jan 12	23:38
	Jan 20	22:05 A		Jan 29	00:37		Feb 4	18:46		Feb 11	13:30
	Feb 19	17:34		Feb 27	13:26		Mar 6	04:58		Mar 13	05:58
	Mar 21	11:08		Mar 28	22:49		Apr 4	14:43		Apr 12	00:09
	Apr 20	01:47		Apr 27	05:31		May 4	00:43		May 11	18:43
	May 19	13:36		May 26	10:38		Jun 2	11:49		Jun 10	12:21
	Jun 17	23:11		Jun 24	15:31		Jul 2	00:37 p		Jul 10	04:13
	Jul 17	07:16 T		Jul 23	21:40		Jul 31	15:09		Aug 8	18:04
	Aug 15	14:39		Aug 22	06:32		Aug 30	06:56		Sep 7	05:55
	Sep 13	22:13		Sep 20	19:08		Sep 28	23:18		Oct 6	15:58
	Oct 13	06:53		Oct 20	11:48		Oct 28	15:33		Nov 5	00:35
	Nov 11	17:38		Nov 19	07:47		Nov 27	07:09		Dec 4	08:21
	Dec 11	07:06		Dec 19	05:27		Dec 26	21:32 t			

1834 00h00m										Jan 2	16:14
	Jan 9	23:11 P		Jan 18	02:43		Jan 25	10:13		Feb 1	01:16
	Feb 8	17:02		Feb 16	21:42		Feb 23	21:00		Mar 2	12:16
	Mar 10	11:17		Mar 18	13:03		Mar 25	06:14		Apr 1	01:27
	Apr 9	04:43		Apr 17	00:19		Apr 23	14:36		Apr 30	16:32
	May 8	20:26		May 16	07:55		May 22	23:02		May 30	08:54
	Jun 7	09:57 P		Jun 14	13:02		Jun 21	08:22 t		Jun 29	01:58
	Jul 6	21:13		Jul 13	17:16		Jul 20	19:16		Jul 28	19:09
	Aug 5	06:35		Aug 11	22:14		Aug 19	08:11		Aug 27	11:48
	Sep 3	14:51		Sep 10	05:26		Sep 17	23:19		Sep 26	03:07
	Oct 2	23:02		Oct 9	16:01		Oct 17	16:28		Oct 25	16:29
	Nov 1	08:08		Nov 8	06:29		Nov 16	10:49		Nov 24	03:36
	Nov 30	18:48 T		Dec 8	00:43		Dec 16	04:56 p		Dec 23	12:50
	Dec 30	07:14									

1835 00h00m				Jan 6	21:42		Jan 14	21:18		Jan 21	20:57
	Jan 28	21:13		Feb 5	19:37		Feb 13	11:01		Feb 20	04:53
	Feb 27	12:29		Mar 7	16:12		Mar 14	22:08		Mar 21	13:27
	Mar 29	04:42		Apr 6	09:32		Apr 13	07:17		Apr 19	23:13
	Apr 27	21:21		May 5	22:43		May 12	15:14 n		May 19	10:39
	May 27	13:32 A		Jun 4	08:05		Jun 10	22:45 p		Jun 18	00:06
	Jun 26	04:20		Jul 3	14:41		Jul 10	06:36		Jul 17	15:45
	Jul 25	17:13		Aug 1	19:49		Aug 8	15:38		Aug 16	09:15
	Aug 24	04:21		Aug 31	00:53		Sep 7	02:50		Sep 15	03:44
	Sep 22	14:26		Sep 29	07:09		Oct 6	17:00		Oct 14	21:53
	Oct 22	00:17		Oct 28	15:48		Nov 5	10:16		Nov 13	14:29
	Nov 20	10:30 T		Nov 27	03:47		Dec 5	05:37 n		Dec 13	04:47
	Dec 19	21:15		Dec 26	19:35						

Year Delta T	New Moon	First Quarter	Full Moon	Last Quarter
1836 00h00m			Jan 4 01:06	Jan 11 16:31
	Jan 18 08:29	Jan 25 14:46	Feb 2 18:51	Feb 10 01:53
	Feb 16 20:19	Feb 24 11:46	Mar 3 09:54	Mar 10 09:26
	Mar 17 09:06	Mar 25 08:24	Apr 1 22:09	Apr 8 16:03
	Apr 15 23:05	Apr 24 02:45	May 1 07:59 p	May 7 22:51
	May 15 14:09 A	May 23 17:56	May 30 16:01	Jun 6 07:01
	Jun 14 05:38	Jun 22 05:53	Jun 28 22:57	Jul 5 17:35
	Jul 13 20:49	Jul 21 15:06	Jul 28 05:46	Aug 4 07:11
	Aug 12 11:12	Aug 19 22:16	Aug 26 13:39	Sep 2 23:48
	Sep 11 00:42	Sep 18 04:20	Sep 24 23:47	Oct 2 18:41
	Oct 10 13:28	Oct 17 10:25	Oct 24 13:03 p	Nov 1 14:39
	Nov 9 01:33 T	Nov 15 17:52	Nov 23 05:31	Dec 1 10:13
	Dec 8 12:59	Dec 15 03:52	Dec 23 00:16	Dec 31 03:55
1837 00h00m	Jan 6 23:47	Jan 13 17:11	Jan 21 19:45	Jan 29 18:31
	Feb 5 10:09	Feb 12 09:37	Feb 20 14:23	Feb 28 05:31
	Mar 6 20:31	Mar 14 04:07	Mar 22 06:57	Mar 29 13:17
	Apr 5 07:22 P	Apr 12 23:13	Apr 20 20:41 t	Apr 27 18:58
	May 4 19:03 P	May 12 17:40	May 20 07:30	May 27 00:02
	Jun 3 07:46	Jun 11 10:31	Jun 18 15:53	Jun 25 06:00
	Jul 2 21:32	Jul 11 01:12	Jul 17 22:52	Jul 24 14:08
	Aug 1 12:21	Aug 9 13:23	Aug 16 05:40	Aug 23 01:17
	Aug 31 04:00	Sep 7 23:12	Sep 14 13:28	Sep 21 15:54
	Sep 29 20:00	Oct 7 07:13	Oct 13 23:14 t	Oct 21 09:56
	Oct 29 11:32 P	Nov 5 14:23	Nov 12 11:29	Nov 20 06:36
	Nov 28 01:49	Dec 4 21:53	Dec 12 02:17	Dec 20 04:14
	Dec 27 14:33			
1838 00h00m		Jan 3 06:43	Jan 10 19:19	Jan 19 00:36
	Jan 26 01:52	Feb 1 17:34	Feb 9 13:52	Feb 17 17:40
	Feb 24 12:09	Mar 3 06:34	Mar 11 08:39	Mar 19 06:31
	Mar 25 21:46 T	Apr 1 21:33	Apr 10 02:07 p	Apr 17 15:30
	Apr 24 07:02	May 1 14:06	May 9 16:59	May 16 21:42
	May 23 16:24	May 31 07:36	Jun 8 04:52	Jun 15 02:31
	Jun 22 02:35	Jun 30 01:13	Jul 7 14:20	Jul 14 07:21
	Jul 21 14:23	Jul 29 17:55	Aug 5 22:27	Aug 12 13:30
	Aug 20 04:27	Aug 28 08:55	Sep 4 06:19	Sep 10 22:11
	Sep 18 20:45 A	Sep 26 21:53	Oct 3 14:46 p	Oct 10 10:25
	Oct 18 14:25	Oct 26 08:57	Nov 2 00:24	Nov 9 02:49
	Nov 17 08:01	Nov 24 18:32	Dec 1 11:34	Dec 8 22:57
	Dec 17 00:23	Dec 24 03:06	Dec 31 00:34	
1839 00h00m				Jan 7 21:05
	Jan 15 14:53	Jan 22 11:18	Jan 29 15:40	Feb 6 18:41
	Feb 14 03:29	Feb 20 19:51	Feb 28 08:35 n	Mar 8 13:33
	Mar 15 14:14 T	Mar 22 05:29	Mar 30 02:19 n	Apr 7 04:34
	Apr 13 23:18	Apr 20 16:54	Apr 28 19:25	May 6 15:43
	May 13 07:11	May 20 06:27	May 28 10:46	Jun 4 23:38
	Jun 11 14:43	Jun 18 22:01	Jun 27 00:01	Jul 4 05:15
	Jul 10 23:02	Jul 18 15:01	Jul 26 11:27	Aug 2 09:50
	Aug 9 09:19	Aug 17 08:37	Aug 24 21:39 n	Aug 31 14:50
	Sep 7 22:22 A	Sep 16 02:00	Sep 23 07:11 n	Sep 29 21:45
	Oct 7 14:14	Oct 15 18:25	Oct 22 16:32	Oct 29 08:01
	Nov 6 08:12	Nov 14 09:13	Nov 21 02:13	Nov 27 22:26

	Dec 6	03:01	Dec 13	21:48	Dec 20	12:44	Dec 27	16:45
1840 00h00m	Jan 4	21:20	Jan 12	07:57	Jan 19	00:33	Jan 26	13:33
	Feb 3	13:58	Feb 10	16:04	Feb 17	13:53 p	Feb 25	10:51
	Mar 4	04:05 A	Mar 10	23:08	Mar 18	04:30	Mar 26	06:43
	Apr 2	15:21	Apr 9	06:21	Apr 16	19:54	Apr 24	23:48
	May 2	00:06	May 8	14:49	May 16	11:30	May 24	13:25
	May 31	07:15	Jun 7	01:16	Jun 15	02:49	Jun 22	23:32
	Jun 29	13:59	Jul 6	14:02	Jul 14	17:31	Jul 22	06:47
	Jul 28	21:29	Aug 5	05:14	Aug 13	07:16 p	Aug 20	12:18
	Aug 27	06:44 T	Sep 3	22:38	Sep 11	19:51	Sep 18	17:32
	Sep 25	18:27	Oct 3	17:39	Oct 11	07:15	Oct 17	23:59
	Oct 25	08:59	Nov 2	13:04	Nov 9	17:52	Nov 16	08:55
	Nov 24	02:12	Dec 2	07:18	Dec 9	04:17	Dec 15	21:04
	Dec 23	21:24	Dec 31	22:49				

Year	New Moon	First Quarter	Full Moon	Last Quarter
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1841 00h00m			Jan 7	14:58	Jan 14	12:31
	Jan 22	17:05 P	Jan 30	10:58	Feb 6	02:05 t
	Feb 21	11:20 P	Feb 28	20:01	Mar 7	13:35
	Mar 23	02:37	Mar 30	02:58	Apr 6	01:30
	Apr 21	14:32	Apr 28	08:57	May 5	14:04
	May 20	23:43	May 27	15:09	Jun 4	03:41
	Jun 19	07:15	Jun 25	22:38	Jul 3	18:29
	Jul 18	14:14 P	Jul 25	08:21	Aug 2	10:02 t
	Aug 16	21:33 P	Aug 23	21:10	Sep 1	01:35
	Sep 15	06:02	Sep 22	13:31	Sep 30	16:20
	Oct 14	16:26	Oct 22	09:01	Oct 30	05:59
	Nov 13	05:29	Nov 21	06:09	Nov 28	18:39
	Dec 12	21:35	Dec 21	02:48	Dec 28	06:35

1842 00h00m					Jan 3	22:09
	Jan 11	16:15 A	Jan 19	20:59	Jan 26	17:49 p
	Feb 10	11:53	Feb 18	11:39	Feb 25	04:14
	Mar 12	06:28	Mar 19	22:40	Mar 26	13:56
	Apr 10	22:31	Apr 18	06:32	Apr 24	23:27
	May 10	11:38	May 17	12:10	May 24	09:39
	Jun 8	22:14	Jun 15	16:53	Jun 22	21:21
	Jul 8	07:01 T	Jul 14	22:07	Jul 22	10:58 p
	Aug 6	14:46	Aug 13	05:22	Aug 21	02:15
	Sep 4	22:16	Sep 11	15:58	Sep 19	18:35
	Oct 4	06:24	Oct 11	06:40	Oct 19	11:14
	Nov 2	16:08	Nov 10	01:14	Nov 18	03:31
	Dec 2	04:15	Dec 9	22:23	Dec 17	18:47 n
	Dec 31	19:03 A				

1843 00h00m			Jan 8	20:11	Jan 16	08:28 n	Jan 23	01:02
	Jan 30	12:01	Feb 7	16:33	Feb 14	20:10	Feb 21	10:47
	Mar 1	06:02	Mar 9	09:49	Mar 16	05:58	Mar 22	22:33
	Mar 30	23:48	Apr 7	23:05	Apr 14	14:28	Apr 21	12:23
	Apr 29	16:17	May 7	08:23	May 13	22:33	May 21	03:53
	May 29	06:53	Jun 5	14:34	Jun 12	07:09 n	Jun 19	20:29
	Jun 27	19:19 A	Jul 4	19:02	Jul 11	17:05 n	Jul 19	13:41
	Jul 27	05:41	Aug 2	23:26	Aug 10	04:54	Aug 18	06:51
	Aug 25	14:35	Sep 1	05:22	Sep 8	18:57	Sep 16	23:14

Sep 23	22:53	Sep 30	14:11	Oct 8	11:17	Oct 16	14:00
Oct 23	07:36	Oct 30	02:42	Nov 7	05:23	Nov 15	02:34
Nov 21	17:35	Nov 28	19:08	Dec 7	00:02 p	Dec 14	12:54
Dec 21	05:10 H	Dec 28	14:53				

1844  
00h00m

				Jan 5	17:36	Jan 12	21:32
Jan 19	18:19	Jan 27	12:32	Feb 4	08:44	Feb 11	05:23
Feb 18	08:47	Feb 26	09:58	Mar 4	21:03	Mar 11	13:20
Mar 19	00:17	Mar 27	05:01	Apr 3	06:58	Apr 9	22:09
Apr 17	16:32	Apr 25	20:16	May 2	15:16	May 9	08:22
May 17	08:53	May 25	07:28	May 31	22:46 t	Jun 7	20:29
Jun 16	00:25 P	Jun 23	15:23	Jun 30	06:15	Jul 7	10:50
Jul 15	14:22	Jul 22	21:12	Jul 29	14:32	Aug 6	03:27
Aug 14	02:31	Aug 21	02:15	Aug 28	00:33	Sep 4	21:43
Sep 12	13:16	Sep 19	07:53	Sep 26	13:13	Oct 4	16:29
Oct 11	23:24	Oct 18	15:17	Oct 26	05:05	Nov 3	10:19
Nov 10	09:36 P	Nov 17	01:32	Nov 24	23:43 t	Dec 3	02:08
Dec 9	20:13 P	Dec 16	15:22	Dec 24	19:29		

1845  
00h00m

						Jan 1	15:21
Jan 8	07:13	Jan 15	08:51	Jan 23	14:21	Jan 31	01:56
Feb 6	18:36	Feb 14	05:00	Feb 22	06:47	Mar 1	10:14
Mar 8	06:38	Mar 16	01:52	Mar 23	20:20	Mar 30	17:01
Apr 6	19:42	Apr 14	21:23	Apr 22	07:13	Apr 28	23:21
May 6	09:58 A	May 14	14:08	May 21	15:59 t	May 28	06:25
Jun 5	01:08	Jun 13	03:43	Jun 19	23:18	Jun 26	15:27
Jul 4	16:30	Jul 12	14:23	Jul 19	06:02	Jul 26	03:20
Aug 3	07:25	Aug 10	22:41	Aug 17	13:17	Aug 24	18:27
Sep 1	21:34	Sep 9	05:24	Sep 15	22:13	Sep 23	12:25
Oct 1	10:59	Oct 8	11:32	Oct 15	09:56	Oct 23	08:14
Oct 30	23:41 A	Nov 6	18:16	Nov 14	00:55 p	Nov 22	04:27
Nov 29	11:41	Dec 6	02:53	Dec 13	18:43	Dec 21	23:29
Dec 28	22:53						

Year	New Moon	First Quarter	Full Moon	Last Quarter
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1846  
00h00m

		Jan 4	14:26	Jan 12	14:02	Jan 20	15:53
Jan 27	09:24	Feb 3	05:11	Feb 11	09:12	Feb 19	04:45
Feb 25	19:34	Mar 4	22:31	Mar 13	02:50	Mar 20	13:59
Mar 27	05:53	Apr 3	17:11	Apr 11	17:56 n	Apr 18	20:25
Apr 25	16:50 H	May 3	11:52	May 11	06:08 n	May 18	01:27
May 25	04:45	Jun 2	05:31	Jun 9	15:37	Jun 16	06:38
Jun 23	17:48	Jul 1	21:24	Jul 8	23:11	Jul 15	13:24
Jul 23	08:03	Jul 31	11:03	Aug 7	06:00	Aug 13	22:51
Aug 21	23:25	Aug 29	22:18	Sep 5	13:16	Sep 12	11:42
Sep 20	15:33	Sep 28	07:26	Oct 4	22:05 n	Oct 12	04:08
Oct 20	07:43 A	Oct 27	15:09	Nov 3	09:10 n	Nov 10	23:45
Nov 18	22:59	Nov 25	22:31	Dec 2	22:46	Dec 10	21:18
Dec 18	12:42	Dec 25	06:37				

1847  
00h00m

				Jan 1	14:42	Jan 9	18:42
Jan 17	00:45	Jan 23	16:18	Jan 31	08:28	Feb 8	13:40
Feb 15	11:27	Feb 22	03:59	Mar 2	03:08	Mar 10	04:39
Mar 16	21:12	Mar 23	17:41	Mar 31	21:17 p	Apr 8	15:26
Apr 15	06:23 T	Apr 22	09:09	Apr 30	13:27	May 7	22:49
May 14	15:24	May 22	01:59	May 30	02:47	Jun 6	04:06

Jun 13	00:53	Jun 20	19:32	Jun 28	13:24	Jul 5	08:43
Jul 12	11:38	Jul 20	12:52	Jul 27	22:10	Aug 3	14:00
Aug 11	00:28	Aug 19	05:00	Aug 26	06:10	Sep 1	21:16
Sep 9	15:47	Sep 17	19:20	Sep 24	14:26 p	Oct 1	07:37
Oct 9	09:07 A	Oct 17	07:40	Oct 23	23:36	Oct 30	21:57
Nov 8	03:11	Nov 15	18:14	Nov 22	10:04	Nov 29	16:23
Dec 7	20:31	Dec 15	03:26	Dec 21	22:08	Dec 29	13:49

1848 00h00m	Jan 6	12:08	Jan 13	11:47	Jan 20	12:04	Jan 28	11:58
	Feb 5	01:43	Feb 11	19:56	Feb 19	03:57	Feb 27	08:22
	Mar 5	13:18 P	Mar 12	04:42	Mar 19	21:10 t	Mar 28	01:19
	Apr 3	23:01 P	Apr 10	14:50	Apr 18	14:31	Apr 26	14:20
	May 3	07:15	May 10	02:56	May 18	06:42	May 25	23:47
	Jun 1	14:40	Jun 8	17:15	Jun 16	20:59	Jun 24	06:28
	Jun 30	22:19	Jul 8	09:29	Jul 16	09:22	Jul 23	11:29
	Jul 30	07:25	Aug 7	02:56	Aug 14	20:18	Aug 21	16:09
	Aug 28	19:01 P	Sep 5	20:43	Sep 13	06:19 t	Sep 19	21:59
	Sep 27	09:36 P	Oct 5	14:01	Oct 12	15:56	Oct 19	06:29
	Oct 27	02:47	Nov 4	06:04	Nov 11	01:36	Nov 17	18:48
	Nov 25	21:31	Dec 3	20:06	Dec 10	11:44	Dec 17	11:14
	Dec 25	16:22						

1849 00h00m			Jan 2	07:38	Jan 8	22:51	Jan 16	06:54
	Jan 24	10:03	Jan 31	16:43	Feb 7	11:16	Feb 15	04:03
	Feb 23	01:30 A	Mar 2	00:03	Mar 9	01:02 p	Mar 17	00:40
	Mar 24	14:06	Mar 31	06:50	Apr 7	15:49	Apr 15	19:10
	Apr 22	23:55	Apr 29	14:17	May 7	07:07	May 15	10:32
	May 22	07:37	May 28	23:23	Jun 5	22:27	Jun 13	22:26
	Jun 20	14:20	Jun 27	10:43	Jul 5	13:29	Jul 13	07:09
	Jul 19	21:16	Jul 27	00:35	Aug 4	03:53	Aug 11	13:33
	Aug 18	05:33 T	Aug 25	16:55	Sep 2	17:18 p	Sep 9	18:56
	Sep 16	16:02	Sep 24	11:23	Oct 2	05:34	Oct 9	00:45
	Oct 16	05:13	Oct 24	07:04	Oct 31	16:47	Nov 7	08:23
	Nov 14	21:13	Nov 23	02:24	Nov 30	03:25	Dec 6	18:53
	Dec 14	15:38	Dec 22	19:40	Dec 29	14:01		

1850 00h00m							Jan 5	08:37
	Jan 13	11:19	Jan 21	09:39	Jan 28	00:52 n	Feb 4	01:19
	Feb 12	06:29 A	Feb 19	20:11	Feb 26	12:00 n	Mar 5	20:07
	Mar 13	23:18	Mar 21	03:58	Mar 27	23:26	Apr 4	15:46
	Apr 12	12:48	Apr 19	10:07	Apr 26	11:20	May 4	10:48
	May 11	23:10	May 18	15:53	May 26	00:08	Jun 3	03:48
	Jun 10	07:21	Jun 16	22:24	Jun 24	14:11	Jul 2	17:59
	Jul 9	14:29	Jul 16	06:42	Jul 24	05:25 n	Aug 1	05:18
	Aug 7	21:34 T	Aug 14	17:47	Aug 22	21:13 n	Aug 30	14:19
	Sep 6	05:29	Sep 13	08:21	Sep 21	12:42	Sep 28	21:53
	Oct 5	14:56	Oct 13	02:29	Oct 21	03:12	Oct 28	05:00
	Nov 4	02:40	Nov 11	23:14	Nov 19	16:36	Nov 26	12:34
	Dec 3	17:16	Dec 11	20:36	Dec 19	05:04	Dec 25	21:25

Year		New Moon		First Quarter		Full Moon		Last Quarter	
Delta	T								
1851 00h00m		Jan 2	10:45	Jan 10	16:21	Jan 17	16:43 p	Jan 24	08:18
		Feb 1	06:02 A	Feb 9	08:55	Feb 16	03:28	Feb 22	21:40
		Mar 3	01:15	Mar 10	21:44	Mar 17	13:19	Mar 24	13:27
		Apr 1	18:33	Apr 9	07:02	Apr 15	22:35	Apr 23	06:58

May 1	09:02	May 8	13:34	May 15	08:05	May 23	01:05
May 30	20:47	Jun 6	18:28	Jun 13	18:44	Jun 21	18:35
Jun 29	06:25	Jul 5	23:09	Jul 13	07:14 p	Jul 21	10:40
Jul 28	14:41 T	Aug 4	05:08	Aug 11	21:44	Aug 20	01:00
Aug 26	22:20	Sep 2	13:53	Sep 10	13:45	Sep 18	13:30
Sep 25	06:12	Oct 2	02:30	Oct 10	06:34	Oct 18	00:14
Oct 24	15:11	Oct 31	19:17	Nov 8	23:23	Nov 16	09:23
Nov 23	02:07	Nov 30	15:26	Dec 8	15:29	Dec 15	17:27
Dec 22	15:35	Dec 30	13:14				

1852  
00h00m

				Jan 7	06:10 t	Jan 14	01:20
Jan 21	07:28 P	Jan 29	10:35	Feb 5	18:54	Feb 12	10:04
Feb 20	00:55	Feb 28	05:32	Mar 6	05:31	Mar 12	20:30
Mar 20	18:43	Mar 28	20:50	Apr 4	14:24	Apr 11	08:59
Apr 19	11:45	Apr 27	08:03	May 3	22:22	May 10	23:23
May 19	03:15	May 26	15:38	Jun 2	06:25	Jun 9	15:15
Jun 17	16:47 P	Jun 24	20:47	Jul 1	15:27 t	Jul 9	08:07
Jul 17	04:15	Jul 24	01:02	Jul 31	02:11	Aug 8	01:29
Aug 15	13:58	Aug 22	06:02	Aug 29	15:07	Sep 6	18:36
Sep 13	22:39	Sep 20	13:18	Sep 28	06:26	Oct 6	10:38
Oct 13	07:15	Oct 19	23:56	Oct 27	23:56	Nov 5	00:41
Nov 11	16:41	Nov 18	14:27	Nov 26	18:42	Dec 4	12:23
Dec 11	03:32 T	Dec 18	08:39	Dec 26	13:11 p		

1853  
00h00m

						Jan 2	21:54
Jan 9	15:54	Jan 17	05:30	Jan 25	05:43	Feb 1	06:01
Feb 8	05:34	Feb 16	03:12	Feb 23	19:25	Mar 2	13:40
Mar 9	20:19	Mar 17	23:34	Mar 25	06:21	Mar 31	21:43
Apr 8	11:58	Apr 16	16:45	Apr 23	15:13	Apr 30	06:51
May 8	04:07	May 16	05:57	May 22	22:53	May 29	17:39
Jun 6	20:03 A	Jun 14	15:27	Jun 21	06:10 p	Jun 28	06:37
Jul 6	10:54	Jul 13	22:16	Jul 20	13:54	Jul 27	22:02
Aug 5	00:06	Aug 12	03:40	Aug 18	22:55	Aug 26	15:39
Sep 3	11:42	Sep 10	08:59	Sep 17	10:12	Sep 25	10:34
Oct 2	22:18	Oct 9	15:27	Oct 17	00:32	Oct 25	05:21
Nov 1	08:39	Nov 8	00:13	Nov 15	18:01	Nov 23	22:36
Nov 30	19:14 T	Dec 7	12:11	Dec 15	13:35 n	Dec 23	13:23
Dec 30	06:06						

1854  
00h00m

		Jan 6	03:48	Jan 14	09:12	Jan 22	01:23
Jan 28	17:13	Feb 4	22:37	Feb 13	02:58	Feb 20	10:44
Feb 27	04:40	Mar 6	19:09	Mar 14	17:54	Mar 21	18:03
Mar 28	16:53	Apr 5	15:22	Apr 13	05:58	Apr 20	00:15
Apr 27	06:16	May 5	09:30	May 12	15:38 p	May 19	06:34
May 26	20:49 A	Jun 4	00:41	Jun 10	23:31	Jun 17	14:14
Jun 25	12:02	Jul 3	12:52	Jul 10	06:25	Jul 17	00:25
Jul 25	03:16	Aug 1	22:28	Aug 8	13:17	Aug 15	13:49
Aug 23	18:00	Aug 31	06:07	Sep 6	21:18	Sep 14	06:30
Sep 22	08:03	Sep 29	12:38	Oct 6	07:36	Oct 14	01:43
Oct 21	21:24	Oct 28	19:05	Nov 4	21:01 p	Nov 12	22:10
Nov 20	10:01 H	Nov 27	02:41	Dec 4	13:35	Dec 12	18:13
Dec 19	21:47	Dec 26	12:39				

1855  
00h00m

				Jan 3	08:19	Jan 11	12:15
Jan 18	08:38	Jan 25	01:39	Feb 2	03:42	Feb 10	03:01
Feb 16	18:49	Feb 23	17:33	Mar 3	22:09	Mar 11	14:00
Mar 18	04:47	Mar 25	11:25	Apr 2	14:30	Apr 9	21:37
Apr 16	15:06	Apr 24	05:57	May 2	04:05 t	May 9	03:02
May 16	02:15 P	May 24	00:03	May 31	14:49	Jun 7	07:48



Jun 14	14:30	Jun 22	16:53	Jun 29	23:15	Jul 6	13:29
Jul 14	04:02	Jul 22	07:51	Jul 29	06:22	Aug 4	21:22
Aug 12	18:53	Aug 20	20:34	Aug 27	13:22	Sep 3	08:24
Sep 11	10:52	Sep 19	07:01	Sep 25	21:26	Oct 2	23:05
Oct 11	03:23	Oct 18	15:38	Oct 25	07:27 t	Nov 1	17:18
Nov 9	19:31 P	Nov 16	23:15	Nov 23	19:51	Dec 1	14:13
Dec 9	10:18	Dec 16	06:57	Dec 23	10:38	Dec 31	12:06

Year            New Moon            First Quarter            Full Moon            Last Quarter  
Delta T

1856	Jan 7	23:17	Jan 14	15:43	Jan 22	03:28	Jan 30	08:36
00h00m	Feb 6	10:36	Feb 13	02:12	Feb 20	21:40	Feb 29	01:42
	Mar 6	20:40	Mar 13	14:36	Mar 21	16:04	Mar 29	14:31
	Apr 5	05:53 T	Apr 12	04:51	Apr 20	09:13 p	Apr 27	23:25
	May 4	14:42	May 11	20:45	May 19	23:57	May 27	05:33
	Jun 2	23:40	Jun 10	13:50	Jun 18	11:53	Jun 25	10:17
	Jul 2	09:31	Jul 10	07:22	Jul 17	21:32	Jul 24	15:03
	Jul 31	21:09	Aug 9	00:22	Aug 16	05:57	Aug 22	21:09
	Aug 30	11:14	Sep 7	15:57	Sep 14	14:10	Sep 21	05:50
	Sep 29	03:49 A	Oct 7	05:38	Oct 13	23:00 p	Oct 20	18:08
	Oct 28	21:55	Nov 5	17:23	Nov 12	08:56	Nov 19	10:35
	Nov 27	16:01	Dec 5	03:26	Dec 11	20:13	Dec 19	06:45
	Dec 27	08:45						

1857			Jan 3	12:14	Jan 10	09:08	Jan 18	04:51
00h00m	Jan 25	23:27	Feb 1	20:21	Feb 8	23:53	Feb 17	02:20
	Feb 24	11:59	Mar 3	04:31	Mar 10	16:17	Mar 18	21:04
	Mar 25	22:29 T	Apr 1	13:34	Apr 9	09:28 n	Apr 17	12:01
	Apr 24	07:15	May 1	00:18	May 9	02:11	May 16	23:10
	May 23	14:48	May 30	13:12	Jun 7	17:23	Jun 15	07:10
	Jun 21	22:04	Jun 29	04:19	Jul 7	06:45	Jul 14	12:57
	Jul 21	06:13	Jul 28	21:13	Aug 5	18:30	Aug 12	17:43
	Aug 19	16:26	Aug 27	15:04	Sep 4	05:08 n	Sep 10	22:52
	Sep 18	05:33 A	Sep 26	08:59	Oct 3	15:09 n	Oct 10	05:55
	Oct 17	21:39	Oct 26	02:06	Nov 2	00:58	Nov 8	16:15
	Nov 16	15:55	Nov 24	17:33	Dec 1	10:57	Dec 8	06:38
	Dec 16	11:01	Dec 24	06:36	Dec 30	21:34		

1858							Jan 7	00:47
00h00m	Jan 15	05:32	Jan 22	16:57	Jan 29	09:12	Feb 5	21:17
	Feb 13	22:13	Feb 21	00:59	Feb 27	22:05 p	Mar 7	18:12
	Mar 15	12:13 A	Mar 22	07:43	Mar 29	12:08	Apr 6	13:46
	Apr 13	23:17	Apr 20	14:27	Apr 28	02:56	May 6	06:42
	May 13	07:48	May 19	22:20	May 27	18:05	Jun 4	20:23
	Jun 11	14:47	Jun 18	08:14	Jun 26	09:14	Jul 4	06:45
	Jul 10	21:25	Jul 17	20:38	Jul 26	00:04	Aug 2	14:22
	Aug 9	04:54	Aug 16	11:42	Aug 24	14:13 p	Aug 31	20:17
	Sep 7	14:15 T	Sep 15	05:16	Sep 23	03:21	Sep 30	01:52
	Oct 7	02:07	Oct 15	00:43	Oct 22	15:20	Oct 29	08:34
	Nov 5	16:49	Nov 13	20:43	Nov 21	02:26	Nov 27	17:36
	Dec 5	10:10	Dec 13	15:29	Dec 20	13:07	Dec 27	05:39

1859	Jan 4	05:26	Jan 12	07:22	Jan 18	23:49	Jan 25	20:46
00h00m	Feb 3	01:04 P	Feb 10	19:39	Feb 17	10:42 t	Feb 24	14:22
	Mar 4	19:11 P	Mar 12	04:38	Mar 18	21:45	Mar 26	09:29
	Apr 3	10:19	Apr 10	11:20	Apr 17	09:05	Apr 25	04:47

May 2	22:05	May 9	16:59	May 16	21:06	May 24	22:50
Jun 1	07:10	Jun 7	22:47	Jun 15	10:17	Jun 23	14:33
Jun 30	14:41	Jul 7	05:54	Jul 15	00:53	Jul 23	03:26
Jul 29	21:44 P	Aug 5	15:22	Aug 13	16:34 t	Aug 21	13:46
Aug 28	05:13 P	Sep 4	04:04	Sep 12	08:32	Sep 19	22:14
Sep 26	13:56	Oct 3	20:32	Oct 11	23:52	Oct 19	05:43
Oct 26	00:33	Nov 2	16:18	Nov 10	14:07	Nov 17	13:07
Nov 24	13:43	Dec 2	13:49	Dec 10	03:14	Dec 16	21:17
Dec 24	05:48						

1860		Jan 1	10:47	Jan 8	15:24	Jan 15	07:00
00h00m							
Jan 23	00:17 A	Jan 31	05:11	Feb 7	02:35 p	Feb 13	18:52
Feb 21	19:39	Feb 29	19:54	Mar 7	12:44	Mar 14	09:10
Mar 22	13:56	Mar 30	06:52	Apr 5	21:59	Apr 13	01:35
Apr 21	05:46	Apr 28	14:35	May 5	07:01	May 12	19:16
May 20	18:46	May 27	20:04	Jun 3	16:45	Jun 11	13:04
Jun 19	05:24	Jun 26	00:36	Jul 3	04:06	Jul 11	05:59
Jul 18	14:20 T	Jul 25	05:41	Aug 1	17:34 p	Aug 9	21:25
Aug 16	22:20	Aug 23	12:50	Aug 31	08:58	Sep 8	11:08
Sep 15	06:09	Sep 21	23:24	Sep 30	01:41	Oct 7	23:05
Oct 14	14:37	Oct 21	14:09	Oct 29	18:51	Nov 6	09:17
Nov 13	00:36	Nov 20	08:51	Nov 28	11:39	Dec 5	18:01
Dec 12	12:49	Dec 20	06:09	Dec 28	03:18 n		

Year	New Moon	First Quarter	Full Moon	Last Quarter
Delta T				
1861				Jan 4 01:55
00h00m				
Jan 11	03:28 A	Jan 19 04:00	Jan 26 17:07 n	Feb 2 10:00
Feb 9	20:05	Feb 18 00:20	Feb 25 04:43	Mar 3 19:17
Mar 11	13:38	Mar 19 17:32	Mar 26 14:15	Apr 2 06:24
Apr 10	06:56	Apr 18 06:45	Apr 24 22:23	May 1 19:31
May 9	23:07	May 17 16:03	May 24 06:05	May 31 10:25
Jun 8	13:38	Jun 15 22:16	Jun 22 14:22 n	Jun 30 02:41
Jul 8	02:12 A	Jul 15 02:48	Jul 22 00:05 n	Jul 29 19:53
Aug 6	12:54	Aug 13 07:16	Aug 20 11:51	Aug 28 13:25
Sep 4	22:12	Sep 11 13:16	Sep 19 02:02	Sep 27 06:25
Oct 4	06:57	Oct 10 22:09	Oct 18 18:39	Oct 26 21:55
Nov 2	16:04	Nov 9 10:44	Nov 17 13:08	Nov 25 11:07
Dec 2	02:17	Dec 9 03:09	Dec 17 08:09 p	Dec 24 21:51
Dec 31	13:55 T			

1862		Jan 7	22:47	Jan 16	01:56	Jan 23	06:37
00h00m							
Jan 30	02:51	Feb 6	20:12	Feb 14	17:07	Feb 21	14:18
Feb 28	16:51	Mar 8	17:22	Mar 16	05:18	Mar 22	21:50
Mar 30	07:46	Apr 7	12:13	Apr 14	14:58	Apr 21	06:03
Apr 28	23:28	May 7	03:24	May 13	23:00	May 20	15:39
May 28	15:26	Jun 5	14:42	Jun 12	06:16 t	Jun 19	03:12
Jun 27	06:53 P	Jul 4	22:50	Jul 11	13:37	Jul 18	17:13
Jul 26	21:04	Aug 3	04:56	Aug 9	21:52	Aug 17	09:48
Aug 25	09:38	Sep 1	10:17	Sep 8	07:55	Sep 16	04:22
Sep 23	20:55	Sep 30	16:10	Oct 7	20:44	Oct 15	23:41
Oct 23	07:35	Oct 29	23:44	Nov 6	12:48	Nov 14	18:10
Nov 21	18:13 P	Nov 28	10:02	Dec 6	07:37 t	Dec 14	10:33
Dec 21	05:04 P	Dec 27	23:44				

1863				Jan 5	03:32	Jan 13	00:06
00h00m							

Jan 19	16:02	Jan 26	16:54	Feb 3	22:26	Feb 11	10:46
Feb 18	03:08	Feb 25	12:34	Mar 5	14:48	Mar 12	18:56
Mar 19	14:39	Mar 27	08:57	Apr 4	04:11	Apr 11	01:23
Apr 18	03:07	Apr 26	04:07	May 3	14:53	May 10	07:16
May 17	16:50 P	May 25	20:47	Jun 1	23:30 t	Jun 8	13:53
Jun 16	07:37	Jun 24	10:31	Jul 1	06:46	Jul 7	22:29
Jul 15	22:54	Jul 23	21:32	Jul 30	13:33	Aug 6	10:05
Aug 14	14:02	Aug 22	06:19	Aug 28	20:54	Sep 5	01:09
Sep 13	04:40	Sep 20	13:33	Sep 27	06:01	Oct 4	19:20
Oct 12	18:40	Oct 19	20:05	Oct 26	17:54	Nov 3	15:34
Nov 11	07:57 A	Nov 18	03:05	Nov 25	09:00 p	Dec 3	12:15
Dec 10	20:22	Dec 17	11:46	Dec 25	02:50		

1864  
00h00m

						Jan 2	07:40
Jan 9	07:44	Jan 15	23:05	Jan 23	22:01	Feb 1	00:17
Feb 7	18:10	Feb 14	13:23	Feb 22	17:00	Mar 1	13:11
Mar 8	04:00	Mar 15	06:05	Mar 23	10:24	Mar 30	22:19
Apr 6	13:50	Apr 14	00:07	Apr 22	01:19	Apr 29	04:34
May 6	00:15 H	May 13	18:20	May 21	13:25 n	May 28	09:20
Jun 4	11:41	Jun 12	11:48	Jun 19	22:55	Jun 26	14:15
Jul 4	00:24	Jul 12	03:52	Jul 19	06:36	Jul 25	20:46
Aug 2	14:34	Aug 10	17:58	Aug 17	13:37	Aug 24	06:05
Sep 1	06:08	Sep 9	05:50	Sep 15	21:09	Sep 22	18:54
Sep 30	22:43	Oct 8	15:37	Oct 15	06:15 n	Oct 22	11:28
Oct 30	15:27 A	Nov 6	23:52	Nov 13	17:32 n	Nov 21	07:18
Nov 29	07:16	Dec 6	07:33	Dec 13	07:11	Dec 21	05:04
Dec 28	21:20						

1865  
00h00m

		Jan 4	15:42	Jan 11	22:58	Jan 20	02:37
Jan 27	09:30	Feb 3	01:08	Feb 10	16:25	Feb 18	21:38
Feb 25	20:03	Mar 4	12:18	Mar 12	10:40	Mar 20	12:36
Mar 27	05:28	Apr 3	01:18	Apr 11	04:27 p	Apr 18	23:19
Apr 25	14:14 T	May 2	16:04	May 10	20:23	May 18	06:39
May 24	22:50	Jun 1	08:22	Jun 9	09:42	Jun 16	11:53
Jun 23	07:58	Jul 1	01:41	Jul 8	20:28	Jul 15	16:27
Jul 22	18:30	Jul 30	19:09	Aug 7	05:31	Aug 13	21:43
Aug 21	07:17	Aug 29	11:46	Sep 5	13:53	Sep 12	04:59
Sep 19	22:46	Sep 28	02:46	Oct 4	22:32 p	Oct 11	15:23
Oct 19	16:27 A	Oct 27	15:49	Nov 3	08:03	Nov 10	05:46
Nov 18	10:59	Nov 26	02:58	Dec 2	18:44	Dec 10	00:14
Dec 18	04:45	Dec 25	12:30				

Year  
Delta T

New Moon      First Quarter      Full Moon      Last Quarter

1866  
00h00m

				Jan 1	06:47	Jan 8	21:37
Jan 16	20:36	Jan 23	20:53	Jan 30	20:28	Feb 7	19:39
Feb 15	10:13	Feb 22	04:48	Mar 1	11:51	Mar 9	15:53
Mar 16	21:37 P	Mar 23	13:03	Mar 31	04:31 t	Apr 8	08:42
Apr 15	07:04 P	Apr 21	22:31	Apr 29	21:23	May 7	21:42
May 14	14:58	May 21	09:58	May 29	13:18	Jun 6	07:13
Jun 12	22:07	Jun 19	23:44	Jun 28	03:36	Jul 5	14:04
Jul 12	05:35	Jul 19	15:43	Jul 27	16:14	Aug 3	19:17
Aug 10	14:36	Aug 18	09:15	Aug 26	03:35	Sep 2	00:10
Sep 9	02:14	Sep 17	03:28	Sep 24	14:07 t	Oct 1	06:10
Oct 8	16:58 P	Oct 16	21:24	Oct 24	00:13	Oct 30	14:47
Nov 7	10:25	Nov 15	14:08	Nov 22	10:15	Nov 29	03:06
Dec 7	05:26	Dec 15	04:43	Dec 21	20:34	Dec 28	19:24

1867	Jan 6	00:30	Jan 13	16:33	Jan 20	07:36	Jan 27	14:47
00h00m	Feb 4	18:16	Feb 12	01:40	Feb 18	19:41	Feb 26	11:32
	Mar 6	09:38 A	Mar 13	08:47	Mar 20	08:54 p	Mar 28	07:47
	Apr 4	22:04	Apr 11	15:09	Apr 18	23:05	Apr 27	02:02
	May 4	07:40	May 10	22:03	May 18	13:51	May 26	17:23
	Jun 2	15:12	Jun 9	06:36	Jun 17	04:54	Jun 25	05:28
	Jul 1	21:48	Jul 8	17:30	Jul 16	19:56	Jul 24	14:33
	Jul 31	04:43	Aug 7	07:07	Aug 15	10:37	Aug 22	21:22
	Aug 29	13:04 T	Sep 5	23:31	Sep 14	00:34 p	Sep 21	03:09
	Sep 27	23:42	Oct 5	18:18	Oct 13	13:25	Oct 20	09:17
	Oct 27	13:03	Nov 4	14:28	Nov 12	01:10	Nov 18	17:07
	Nov 26	05:12	Dec 4	10:21	Dec 11	12:11	Dec 18	03:36
	Dec 25	23:40						

1868			Jan 3	04:03	Jan 9	22:54	Jan 16	17:05
00h00m	Jan 24	19:19	Feb 1	18:15	Feb 8	09:36 n	Feb 15	09:17
	Feb 23	14:21 A	Mar 2	04:48	Mar 8	20:22 n	Mar 16	03:30
	Mar 24	07:00	Mar 31	12:25	Apr 7	07:16	Apr 14	22:36
	Apr 22	20:21	Apr 29	18:17	May 6	18:36	May 14	17:16
	May 22	06:36	May 28	23:41	Jun 5	06:54	Jun 13	10:14
	Jun 20	14:45	Jun 27	05:51	Jul 4	20:39	Jul 13	00:41
	Jul 19	21:56	Jul 26	13:52	Aug 3	11:52 n	Aug 11	12:29
	Aug 18	05:11 T	Aug 25	00:47	Sep 2	03:58 n	Sep 9	22:05
	Sep 16	13:19	Sep 23	15:22	Oct 1	19:59	Oct 9	06:14
	Oct 15	23:01	Oct 23	09:42	Oct 31	11:06	Nov 7	13:47
	Nov 14	10:55	Nov 22	06:46	Nov 30	01:02	Dec 6	21:35
	Dec 14	01:34	Dec 22	04:27	Dec 29	13:49		

1869							Jan 5	06:24
00h00m	Jan 12	18:54	Jan 21	00:26	Jan 28	01:31 p	Feb 3	16:57
	Feb 11	13:55 A	Feb 19	17:06	Feb 26	12:05	Mar 5	05:44
	Mar 13	08:47	Mar 21	05:53	Mar 27	21:32	Apr 3	20:49
	Apr 12	01:49	Apr 19	15:05	Apr 26	06:21	May 3	13:41
	May 11	16:08	May 18	21:30	May 25	15:22	Jun 2	07:22
	Jun 10	03:52	Jun 17	02:16	Jun 24	01:38	Jul 2	00:47
	Jul 9	13:38	Jul 16	06:49	Jul 23	13:55 p	Jul 31	17:08
	Aug 7	22:08 T	Aug 14	12:42	Aug 22	04:25	Aug 30	08:00
	Sep 6	06:07	Sep 12	21:24	Sep 20	20:42	Sep 28	21:11
	Oct 5	14:20	Oct 12	10:02	Oct 20	13:59	Oct 28	08:35
	Nov 3	23:36	Nov 11	02:55	Nov 19	07:20	Nov 26	18:15
	Dec 3	10:42	Dec 10	23:11	Dec 18	23:51	Dec 26	02:34

1870	Jan 2	00:07	Jan 9	21:02	Jan 17	14:46 t	Jan 24	10:24
00h00m	Jan 31	15:42 P	Feb 8	18:20	Feb 16	03:29	Feb 22	18:48
	Mar 2	08:42	Mar 10	13:13	Mar 17	13:53	Mar 24	04:39
	Apr 1	02:00	Apr 9	04:26	Apr 15	22:26	Apr 22	16:26
	Apr 30	18:38	May 8	15:38	May 15	06:03	May 22	06:09
	May 30	09:57	Jun 6	23:16	Jun 13	13:47	Jun 20	21:34
	Jun 28	23:33 P	Jul 6	04:30	Jul 12	22:34 t	Jul 20	14:18
	Jul 28	11:17 P	Aug 4	08:51	Aug 11	09:12	Aug 19	07:52
	Aug 26	21:24	Sep 2	13:58	Sep 9	22:11	Sep 18	01:31
	Sep 25	06:33	Oct 1	21:19	Oct 9	13:43	Oct 17	18:14
	Oct 24	15:35	Oct 31	08:01	Nov 8	07:33	Nov 16	08:59
	Nov 23	01:21	Nov 29	22:33	Dec 8	02:40	Dec 15	21:11
	Dec 22	12:20 T	Dec 29	16:38				

Year Delta T	New Moon	First Quarter	Full Moon	Last Quarter
1871 00h00m			Jan 6 21:25 p	Jan 14 06:57
	Jan 21 00:34	Jan 28 13:16	Feb 5 14:04	Feb 12 15:01
	Feb 19 13:51	Feb 27 10:40	Mar 7 03:41	Mar 13 22:21
	Mar 21 04:03	Mar 29 06:46	Apr 5 14:25	Apr 12 05:53
	Apr 19 19:06	Apr 27 23:49	May 4 23:01	May 11 14:24
	May 19 10:46	May 27 13:02	Jun 3 06:28	Jun 10 00:38
	Jun 18 02:30 A	Jun 25 22:44	Jul 2 13:36 p	Jul 9 13:10
	Jul 17 17:27	Jul 25 05:51	Jul 31 21:16	Aug 8 04:24
	Aug 16 07:01	Aug 23 11:35	Aug 30 06:19	Sep 6 22:10
	Sep 14 19:08	Sep 21 17:12	Sep 28 17:43	Oct 6 17:32
	Oct 14 06:18	Oct 20 23:55	Oct 28 08:14	Nov 5 12:55
	Nov 12 17:08	Nov 19 08:48	Nov 27 01:54	Dec 5 06:46
	Dec 12 04:02 T	Dec 18 20:42	Dec 26 21:35 n	
1872 00h00m				Jan 3 22:00
	Jan 10 14:58	Jan 17 12:03	Jan 25 17:15	Feb 2 10:10
	Feb 9 01:53	Feb 16 06:24	Feb 24 10:58	Mar 2 19:29
	Mar 9 12:55	Mar 17 02:25	Mar 25 01:45	Apr 1 02:33
	Apr 8 00:34	Apr 15 22:11	Apr 23 13:39	Apr 30 08:22
	May 7 13:21	May 15 16:06	May 22 23:10 p	May 29 14:14
	Jun 6 03:25 A	Jun 14 07:20	Jun 21 06:59	Jun 27 21:29
	Jul 5 18:26	Jul 13 19:49	Jul 20 13:54	Jul 27 07:20
	Aug 4 09:46	Aug 12 05:53	Aug 18 20:53	Aug 25 20:35
	Sep 3 00:53	Sep 10 14:04	Sep 17 05:04	Sep 24 13:22
	Oct 2 15:30	Oct 9 21:04	Oct 16 15:34	Oct 24 08:54
	Nov 1 05:27	Nov 8 03:52	Nov 15 05:08 p	Nov 23 05:46
	Nov 30 18:34 H	Dec 7 11:37	Dec 14 21:44	Dec 23 02:14
	Dec 30 06:36			
1873 00h00m		Jan 5 21:28	Jan 13 16:23	Jan 21 20:32
	Jan 28 17:27	Feb 4 10:06	Feb 12 11:33	Feb 20 11:24
	Feb 27 03:24	Mar 6 01:24	Mar 14 05:45	Mar 21 22:20
	Mar 28 12:56	Apr 4 18:35	Apr 12 21:52	Apr 20 05:48
	Apr 26 22:44	May 4 12:33	May 12 11:20 t	May 19 11:01
	May 26 09:22 P	Jun 3 06:20	Jun 10 22:03	Jun 17 15:33
	Jun 24 21:14	Jul 2 23:12	Jul 10 06:35	Jul 16 20:59
	Jul 24 10:35	Aug 1 14:31	Aug 8 13:54	Aug 15 04:42
	Aug 23 01:31	Aug 31 03:49	Sep 6 21:10	Sep 13 15:41
	Sep 21 17:51	Sep 29 14:56	Oct 6 05:31	Oct 13 06:26
	Oct 21 10:54	Oct 29 00:09	Nov 4 15:48 t	Nov 12 00:48
	Nov 20 03:35 P	Nov 27 08:12	Dec 4 04:19	Dec 11 21:55
	Dec 19 18:48	Dec 26 16:04		
1874 00h00m			Jan 2 19:02	Jan 10 19:57
	Jan 18 08:00	Jan 25 00:42	Feb 1 11:35	Feb 9 16:30
	Feb 16 19:15	Feb 23 10:46	Mar 3 05:21	Mar 11 09:35
	Mar 18 05:03	Mar 24 22:31	Apr 1 23:19	Apr 9 22:21
	Apr 16 13:54 T	Apr 23 12:04	May 1 16:10 p	May 9 07:12
	May 15 22:18	May 23 03:19	May 31 06:48	Jun 7 13:18
	Jun 14 06:54	Jun 21 20:02	Jun 29 18:50	Jul 6 18:02
	Jul 13 16:29	Jul 21 13:33	Jul 29 04:45	Aug 4 22:48
	Aug 12 04:00	Aug 20 06:53	Aug 27 13:30	Sep 3 04:56
	Sep 10 18:11	Sep 18 23:05	Sep 25 22:08	Oct 2 13:40
	Oct 10 11:02 A	Oct 18 13:29	Oct 25 07:21 t	Nov 1 02:01
	Nov 9 05:34	Nov 17 01:53	Nov 23 17:34	Nov 30 18:30
	Dec 9 00:06	Dec 16 12:24	Dec 23 04:56	Dec 30 14:37

1875 00h00m	Jan 7 17:08	Jan 14 21:22	Jan 21 17:40	Jan 29 12:34
	Feb 6 07:55	Feb 13 05:20	Feb 20 08:01	Feb 28 09:52
	Mar 7 20:21	Mar 14 13:06	Mar 21 23:51	Mar 30 04:26
	Apr 6 06:36 T	Apr 12 21:33	Apr 20 16:30 n	Apr 28 19:18
	May 5 15:04	May 12 07:37	May 20 08:50	May 28 06:30
	Jun 3 22:21	Jun 10 19:54	Jun 18 23:56	Jun 26 14:40
	Jul 3 05:25	Jul 10 10:39	Jul 18 13:28	Jul 25 20:40
	Aug 1 13:28	Aug 9 03:29	Aug 17 01:35	Aug 24 01:40
	Aug 30 23:41	Sep 7 21:37	Sep 15 12:43 n	Sep 22 07:02
	Sep 29 12:55 A	Oct 7 16:06	Oct 14 23:16 n	Oct 21 14:15
	Oct 29 05:14	Nov 6 09:53	Nov 13 09:30	Nov 20 00:38
	Nov 27 23:45	Dec 6 01:56	Dec 12 19:46	Dec 19 14:56
	Dec 27 19:04			

Year            New Moon            First Quarter            Full Moon            Last Quarter  
Delta T

1876 00h00m		Jan 4 15:24	Jan 11 06:23	Jan 18 08:49
	Jan 26 13:42	Feb 3 01:53	Feb 9 17:47	Feb 17 04:55
	Feb 25 06:21	Mar 3 09:47	Mar 10 06:12 p	Mar 18 01:25
	Mar 25 20:12 A	Apr 1 16:12	Apr 8 19:38	Apr 16 20:39
	Apr 24 07:04	Apr 30 22:27	May 8 09:52	May 16 13:28
	May 23 15:25	May 30 05:48	Jun 7 00:37	Jun 15 03:16
	Jun 21 22:17	Jun 28 15:13	Jul 6 15:38	Jul 14 13:57
	Jul 21 04:53	Jul 28 03:18	Aug 5 06:39	Aug 12 21:59
	Aug 19 12:26	Aug 26 18:18	Sep 3 21:14 p	Sep 11 04:21
	Sep 17 21:54 T	Sep 25 12:04	Oct 3 10:57	Oct 10 10:20
	Oct 17 09:57	Oct 25 07:55	Nov 1 23:32	Nov 8 17:18
	Nov 16 00:48	Nov 24 04:27	Dec 1 11:04	Dec 8 02:24
	Dec 15 18:14	Dec 23 23:41	Dec 30 21:59	

1877 00h00m				Jan 6 14:17
	Jan 14 13:27	Jan 22 15:52	Jan 29 08:38	Feb 5 04:59
	Feb 13 08:58	Feb 21 04:14	Feb 27 19:13 t	Mar 6 22:01
	Mar 15 02:54 P	Mar 22 13:07	Mar 29 05:47	Apr 5 16:31
	Apr 13 17:51	Apr 20 19:36	Apr 27 16:35	May 5 11:20
	May 13 05:30	May 20 00:56	May 27 04:04	Jun 4 05:12
	Jun 11 14:32	Jun 18 06:24	Jun 25 16:52	Jul 3 21:03
	Jul 10 22:06	Jul 17 13:13	Jul 25 07:20	Aug 2 10:22
	Aug 9 05:17 P	Aug 15 22:29	Aug 23 23:12 t	Aug 31 21:16
	Sep 7 13:00 P	Sep 14 11:08	Sep 22 15:36	Sep 30 06:21
	Oct 6 21:58	Oct 14 03:42	Oct 22 07:32	Oct 29 14:22
	Nov 5 08:48	Nov 12 23:44	Nov 20 22:21	Nov 27 22:06
	Dec 4 22:04	Dec 12 21:34	Dec 20 11:52	Dec 27 06:21

1878 00h00m	Jan 3 14:04	Jan 11 18:46	Jan 19 00:11	Jan 25 15:50
	Feb 2 08:17 A	Feb 10 13:16	Feb 17 11:16 p	Feb 24 03:13
	Mar 4 03:18	Mar 12 04:00	Mar 18 21:06	Mar 25 16:50
	Apr 2 21:15	Apr 10 14:53	Apr 17 05:56	Apr 24 08:33
	May 2 12:51	May 9 22:31	May 16 14:30	May 24 01:41
	Jun 1 01:47	Jun 8 03:54	Jun 14 23:50	Jun 22 19:14
	Jun 30 12:30	Jul 7 08:20	Jul 14 10:54	Jul 22 12:16
	Jul 29 21:40 T	Aug 5 13:19	Aug 13 00:16 p	Aug 21 04:08
	Aug 28 05:58	Sep 3 20:26	Sep 11 15:50	Sep 19 18:31
	Sep 26 14:09	Oct 3 07:00	Oct 11 08:55	Oct 19 07:10
	Oct 25 22:58	Nov 1 21:50	Nov 10 02:35	Nov 17 17:58

Nov 24	09:11	Dec 1	16:36	Dec 9	19:51	Dec 17	03:04
Dec 23	21:26	Dec 31	13:56				

1879  
00h00m

Jan 22	11:52 A	Jan 30	11:45	Feb 7	01:43 n	Feb 13	18:55
Feb 21	04:04	Mar 1	07:59	Mar 8	13:10	Mar 15	03:42
Mar 22	21:05	Mar 31	01:05	Apr 6	22:24	Apr 13	14:09
Apr 21	13:56	Apr 29	14:16	May 6	06:12	May 13	02:35
May 21	05:50	May 28	23:36	Jun 4	13:34	Jun 11	16:55
Jun 19	20:18	Jun 27	05:55	Jul 3	21:36 n	Jul 11	08:54
Jul 19	09:04 A	Jul 26	10:35	Aug 2	07:11 n	Aug 10	02:09
Aug 17	20:09	Aug 24	15:11	Aug 31	18:56	Sep 8	20:05
Sep 16	05:55	Sep 22	21:19	Sep 30	09:16	Oct 8	13:44
Oct 15	15:08	Oct 22	06:18	Oct 30	02:10	Nov 7	05:56
Nov 14	00:38	Nov 20	18:55	Nov 28	20:58	Dec 6	19:43
Dec 13	11:05	Dec 20	11:15	Dec 28	16:16 p		

1880  
00h00m

Jan 11	22:41 T	Jan 19	06:40	Jan 27	10:13	Feb 3	15:38
Feb 10	11:19	Feb 18	03:46	Feb 26	01:23	Mar 3	23:06
Mar 11	00:48	Mar 19	00:36	Mar 26	13:24	Apr 2	06:13
Apr 9	15:08	Apr 17	19:14	Apr 24	22:50	May 1	13:52
May 9	06:16	May 17	10:23	May 24	06:38	May 30	22:53
Jun 7	21:55	Jun 15	21:50	Jun 22	13:45 t	Jun 29	09:57
Jul 7	13:20 A	Jul 15	06:15	Jul 21	21:01	Jul 28	23:41
Aug 6	03:47	Aug 13	12:42	Aug 20	05:17	Aug 27	16:16
Sep 4	16:51	Sep 11	18:25	Sep 18	15:27	Sep 26	11:09
Oct 4	04:42	Oct 11	00:35	Oct 18	04:25	Oct 26	07:00
Nov 2	15:54	Nov 9	08:21	Nov 16	20:39	Nov 25	02:06
Dec 2	02:56 P	Dec 8	18:39	Dec 16	15:37 t	Dec 24	18:58
Dec 31	13:56 P						

Year  
Delta T

New Moon                      First Quarter                      Full Moon                      Last Quarter

1881  
00h00m

		Jan 7	08:10	Jan 15	11:34	Jan 23	08:48
Jan 30	00:49	Feb 6	00:55	Feb 14	06:25	Feb 21	19:30
Feb 28	11:34	Mar 7	20:02	Mar 15	22:39	Mar 23	03:30
Mar 29	22:34	Apr 6	15:54	Apr 14	11:52	Apr 21	09:39
Apr 28	10:26	May 6	10:44	May 13	22:25	May 20	15:08
May 27	23:37 P	Jun 5	03:19	Jun 12	06:57 t	Jun 18	21:19
Jun 26	14:04	Jul 4	17:16	Jul 11	14:13	Jul 18	05:34
Jul 26	05:19	Aug 3	04:43	Aug 9	21:07	Aug 16	16:57
Aug 24	20:44	Sep 1	14:02	Sep 8	04:39	Sep 15	08:01
Sep 23	11:53	Sep 30	21:48	Oct 7	13:58	Oct 15	02:25
Oct 23	02:29	Oct 30	04:47	Nov 6	02:02	Nov 13	23:01
Nov 21	16:20 A	Nov 28	12:01	Dec 5	17:13 p	Dec 13	20:06
Dec 21	05:06	Dec 27	20:42				

1882  
00h00m

		Jan 4	10:58	Jan 12	15:49		
Jan 19	16:35	Jan 26	07:45	Feb 3	05:58	Feb 11	08:35
Feb 18	02:51	Feb 24	21:31	Mar 5	00:40	Mar 12	21:29
Mar 19	12:19	Mar 26	13:33	Apr 3	17:48	Apr 11	06:31
Apr 17	21:40	Apr 25	06:56	May 3	08:33	May 10	12:35
May 17	07:35 T	May 25	00:41	Jun 1	20:35 n	Jun 8	17:10
Jun 15	18:35	Jun 23	18:02	Jul 1	06:10	Jul 7	21:52
Jul 15	07:02	Jul 23	10:19	Jul 30	14:03	Aug 6	04:14

Aug 13	21:10	Aug 22	00:55	Aug 28	21:19	Sep 4	13:27
Sep 12	12:58	Sep 20	13:27	Sep 27	05:10	Oct 4	02:18
Oct 12	06:01	Oct 19	23:54	Oct 26	14:33	Nov 2	18:58
Nov 10	23:19 A	Nov 18	08:41	Nov 25	02:02 n	Dec 2	14:58
Dec 10	15:37	Dec 17	16:39	Dec 24	15:41		

1883  
00h00m

						Jan 1	12:52
Jan 9	05:59	Jan 16	00:47	Jan 23	07:15	Jan 31	10:28
Feb 7	18:10	Feb 14	09:55	Feb 22	00:17	Mar 2	05:27
Mar 9	04:32	Mar 15	20:31	Mar 23	18:04	Mar 31	20:22
Apr 7	13:37	Apr 14	08:49	Apr 22	11:27 p	Apr 30	07:03
May 6	21:59 T	May 13	22:54	May 22	03:12	May 29	14:22
Jun 5	06:13	Jun 12	14:41	Jun 20	16:32	Jun 27	19:37
Jul 4	15:04	Jul 12	07:49	Jul 20	03:32	Jul 27	00:13
Aug 3	01:26	Aug 11	01:28	Aug 18	12:55	Aug 25	05:33
Sep 1	14:13	Sep 9	18:37	Sep 16	21:42	Sep 23	12:52
Oct 1	05:54	Oct 9	10:19	Oct 16	06:46 p	Oct 22	23:20
Oct 30	23:57 A	Nov 8	00:04	Nov 14	16:37	Nov 21	13:45
Nov 29	18:54	Dec 7	11:46	Dec 14	03:28	Dec 21	08:10
Dec 29	13:00						

1884  
00h00m

		Jan 5	21:35	Jan 12	15:27	Jan 20	05:24
Jan 28	05:02	Feb 4	05:57	Feb 11	04:48	Feb 19	03:13
Feb 26	18:36	Mar 4	13:33	Mar 11	19:40	Mar 19	23:14
Mar 27	05:48 P	Apr 2	21:17	Apr 10	11:44 t	Apr 18	15:55
Apr 25	14:58 P	May 2	06:08	May 10	04:08	May 18	04:55
May 24	22:37	May 31	16:56	Jun 8	19:50	Jun 16	14:35
Jun 23	05:33	Jun 30	06:14	Jul 8	10:11	Jul 15	21:40
Jul 22	12:54	Jul 29	22:00	Aug 6	23:08	Aug 14	03:09
Aug 20	21:54	Aug 28	15:41	Sep 5	10:57	Sep 12	08:18
Sep 19	09:36	Sep 27	10:20	Oct 4	22:01 t	Oct 11	14:30
Oct 19	00:31 P	Oct 27	04:54	Nov 3	08:37	Nov 9	23:13
Nov 17	18:12	Nov 25	22:16	Dec 2	19:00	Dec 9	11:31
Dec 17	13:24	Dec 25	13:21				

1885  
00h00m

				Jan 1	05:26	Jan 8	03:36
Jan 16	08:36	Jan 24	01:25	Jan 30	16:19	Feb 6	22:37
Feb 15	02:22	Feb 22	10:30	Mar 1	04:00	Mar 8	18:54
Mar 16	17:38 A	Mar 23	17:23	Mar 30	16:40 p	Apr 7	14:44
Apr 15	05:53	Apr 21	23:20	Apr 29	06:14	May 7	08:45
May 14	15:18	May 21	05:45	May 28	20:31	Jun 6	00:07
Jun 12	22:43	Jun 19	13:48	Jun 27	11:19	Jul 5	12:28
Jul 12	05:16	Jul 19	00:20	Jul 27	02:24	Aug 3	21:57
Aug 10	12:14	Aug 17	13:46	Aug 25	17:26	Sep 2	05:16
Sep 8	20:43 T	Sep 16	06:14	Sep 24	07:56 p	Oct 1	11:30
Oct 8	07:31	Oct 16	01:21	Oct 23	21:23	Oct 30	17:58
Nov 6	21:02	Nov 14	22:00	Nov 22	09:40	Nov 29	01:58
Dec 6	13:16	Dec 14	18:21	Dec 21	20:59	Dec 28	12:22

Year  
Delta T

New Moon      First Quarter      Full Moon      Last Quarter

1886  
00h00m

Jan 5	07:44	Jan 13	12:24	Jan 20	07:45	Jan 27	01:32
Feb 4	03:15	Feb 12	02:45	Feb 18	18:15 n	Feb 25	17:12
Mar 5	22:05 A	Mar 13	13:16	Mar 20	04:36 n	Mar 27	10:46
Apr 4	14:32	Apr 11	20:43	Apr 18	14:58	Apr 26	05:17
May 4	03:44	May 11	02:20	May 18	01:47	May 25	23:38



Jun 2	13:56	Jun 9	07:27	Jun 16	13:38	Jun 24	16:36
Jul 1	22:07	Jul 8	13:19	Jul 16	03:09	Jul 24	07:22
Jul 31	05:26	Aug 6	21:07	Aug 14	18:25 n	Aug 22	19:42
Aug 29	12:54 T	Sep 5	07:55	Sep 13	10:51 n	Sep 21	05:56
Sep 27	21:18	Oct 4	22:33	Oct 13	03:25	Oct 20	14:41
Oct 27	07:15	Nov 3	17:04	Nov 11	19:07	Nov 18	22:41
Nov 25	19:18	Dec 3	14:24	Dec 11	09:31	Dec 18	06:40
Dec 25	09:55						

1887  
00h00m

		Jan 2	12:19	Jan 9	22:33	Jan 16	15:23
Jan 24	03:02	Feb 1	08:26	Feb 8	10:15 p	Feb 15	01:33
Feb 22	21:41 A	Mar 3	01:08	Mar 9	20:34	Mar 16	13:44
Mar 24	16:11	Apr 1	13:52	Apr 8	05:38	Apr 15	04:05
Apr 23	08:54	Apr 30	23:00	May 7	14:01	May 14	20:18
May 22	23:06	May 30	05:20	Jun 5	22:37	Jun 13	13:35
Jun 21	10:53	Jun 28	10:02	Jul 5	08:33	Jul 13	06:57
Jul 20	20:50	Jul 27	14:31	Aug 3	20:40 p	Aug 11	23:38
Aug 19	05:38 T	Aug 25	20:22	Sep 2	11:13	Sep 10	15:05
Sep 17	13:59	Sep 24	05:04	Oct 2	03:48	Oct 10	04:58
Oct 16	22:35	Oct 23	17:45	Oct 31	21:32	Nov 8	17:02
Nov 15	08:08	Nov 22	10:42	Nov 30	15:21	Dec 8	03:11
Dec 14	19:22	Dec 22	06:59	Dec 30	08:15		

1888  
00h00m

						Jan 6	11:42
Jan 13	08:39	Jan 21	04:48	Jan 28	23:19 t	Feb 4	19:26
Feb 11	23:53 P	Feb 20	01:59	Feb 27	11:58	Mar 5	03:26
Mar 12	16:22	Mar 20	20:43	Mar 27	22:08	Apr 3	12:42
Apr 11	09:08	Apr 19	11:52	Apr 26	06:22	May 2	23:47
May 11	01:24	May 18	23:05	May 25	13:39	Jun 1	12:53
Jun 9	16:34	Jun 17	06:49	Jun 23	21:07	Jul 1	03:53
Jul 9	06:16 P	Jul 16	12:13	Jul 23	05:45 t	Jul 30	20:31
Aug 7	18:20 P	Aug 14	16:44	Aug 21	16:20	Aug 29	14:20
Sep 6	04:55	Sep 12	22:01	Sep 20	05:24	Sep 28	08:32
Oct 5	14:34	Oct 12	05:30	Oct 19	21:10	Oct 28	01:57
Nov 4	00:02	Nov 10	16:16	Nov 18	15:17	Nov 26	17:21
Dec 3	10:06	Dec 10	06:45	Dec 18	10:42	Dec 26	06:00

1889  
00h00m

Jan 1	21:09 T	Jan 9	00:40	Jan 17	05:37 p	Jan 24	15:57
Jan 31	09:11	Feb 7	20:58	Feb 15	22:18	Feb 22	23:55
Mar 1	22:02	Mar 9	18:00	Mar 17	11:49	Mar 24	06:55
Mar 31	11:39	Apr 8	13:47	Apr 15	22:20	Apr 22	13:56
Apr 30	02:06	May 8	06:43	May 15	06:43	May 21	21:54
May 29	17:20	Jun 6	20:01	Jun 13	13:59	Jun 20	07:36
Jun 28	08:54 A	Jul 6	05:59	Jul 12	21:02 p	Jul 19	19:46
Jul 28	00:00	Aug 4	13:27	Aug 11	04:42	Aug 18	10:53
Aug 26	13:59	Sep 2	19:35	Sep 9	13:52	Sep 17	04:50
Sep 25	02:41	Oct 2	01:33	Oct 9	01:24	Oct 17	00:38
Oct 24	14:25	Oct 31	08:31	Nov 7	16:05	Nov 15	20:36
Nov 23	01:43	Nov 29	17:29	Dec 7	09:53	Dec 15	14:59
Dec 22	12:52 T	Dec 29	05:17				

1890  
00h00m

				Jan 6	05:37 n	Jan 14	06:33
Jan 20	23:49	Jan 27	20:16	Feb 5	01:14	Feb 12	18:51
Feb 19	10:29	Feb 26	14:06	Mar 6	18:48	Mar 14	04:05
Mar 20	21:03	Mar 28	09:32	Apr 5	09:26	Apr 12	10:54
Apr 19	08:08	Apr 27	04:51	May 4	21:11	May 11	16:23
May 18	20:21	May 26	22:34	Jun 3	06:36 n	Jun 9	21:51
Jun 17	09:59 A	Jun 25	13:54	Jul 2	14:24 n	Jul 9	04:44
Jul 17	00:51	Jul 25	02:45	Jul 31	21:25	Aug 7	14:20

Aug 15	16:20	Aug 23	13:20	Aug 30	04:35	Sep 6	03:30
Sep 14	07:53	Sep 21	22:06	Sep 28	12:59	Oct 5	20:23
Oct 13	23:04	Oct 21	05:37	Oct 27	23:41	Nov 4	16:13
Nov 12	13:37	Nov 19	12:45	Nov 26	13:23 n	Dec 4	13:28
Dec 12	03:10 H	Dec 18	20:37	Dec 26	05:57		

Year Delta T	New Moon	First Quarter	Full Moon	Last Quarter
1891 00h00m				Jan 3 10:14
	Jan 10 15:24	Jan 17 06:18	Jan 25 00:25	Feb 2 04:44
	Feb 9 02:13	Feb 15 18:30	Feb 23 19:18	Mar 3 19:38
	Mar 10 11:52	Mar 17 09:09	Mar 25 13:12	Apr 2 06:30
	Apr 8 20:58	Apr 16 01:39	Apr 24 05:05	May 1 13:51
	May 8 06:17	May 15 19:03	May 23 18:26 t	May 30 18:54
	Jun 6 16:27 A	Jun 14 12:34	Jun 22 05:13	Jun 28 23:16
	Jul 6 03:59	Jul 14 05:29	Jul 21 13:55	Jul 28 04:33
	Aug 4 17:13	Aug 12 21:12	Aug 19 21:29	Aug 26 12:10
	Sep 3 08:16	Sep 11 11:08	Sep 18 05:05	Sep 24 23:08
	Oct 3 00:58	Oct 10 22:56	Oct 17 13:45	Oct 24 13:57
	Nov 1 18:32	Nov 9 08:46	Nov 16 00:16 t	Nov 23 08:27
	Dec 1 11:45 P	Dec 8 17:13	Dec 15 12:53	Dec 23 05:41
	Dec 31 03:20			
1892 00h00m		Jan 7 01:13	Jan 14 03:27	Jan 22 03:45
	Jan 29 16:39	Feb 5 09:39	Feb 12 19:38	Feb 21 00:16
	Feb 28 03:48	Mar 5 19:14	Mar 13 12:55	Mar 21 17:17
	Mar 28 13:19	Apr 4 06:21	Apr 12 06:25	Apr 20 06:00
	Apr 26 21:47 T	May 3 19:11	May 11 22:59 p	May 19 14:52
	May 26 05:49	Jun 2 09:50	Jun 10 13:33	Jun 17 21:00
	Jun 24 14:07	Jul 2 02:13	Jul 10 01:44	Jul 17 01:48
	Jul 23 23:31	Jul 31 19:45	Aug 8 11:59	Aug 15 06:38
	Aug 22 10:59	Aug 30 13:28	Sep 6 21:09	Sep 13 12:52
	Sep 21 01:16	Sep 29 06:19	Oct 6 06:13	Oct 12 21:40
	Oct 20 18:24 P	Oct 28 21:26	Nov 4 15:50 t	Nov 11 10:03
	Nov 19 13:19	Nov 27 10:28	Dec 4 02:17	Dec 11 02:31
	Dec 19 08:13	Dec 26 21:22		
1893 00h00m			Jan 2 13:41	Jan 9 22:29
	Jan 18 01:29	Jan 25 06:27	Feb 1 02:11	Feb 8 20:12
	Feb 16 16:17	Feb 23 14:14	Mar 2 16:03	Mar 10 17:14
	Mar 18 04:34	Mar 24 21:34	Apr 1 07:18	Apr 9 11:36
	Apr 16 14:35 T	Apr 23 05:26	Apr 30 23:23 n	May 9 02:25
	May 15 22:47	May 22 14:52	May 30 15:23	Jun 7 13:43
	Jun 14 05:51	Jun 21 02:37	Jun 29 06:26	Jul 6 22:06
	Jul 13 12:48	Jul 20 17:02	Jul 28 20:11	Aug 5 04:24
	Aug 11 20:48	Aug 19 09:51	Aug 27 08:44	Sep 3 09:43
	Sep 10 07:04	Sep 18 04:18	Sep 25 20:24 n	Oct 2 15:21
	Oct 9 20:27 A	Oct 17 23:20	Oct 25 07:29 n	Oct 31 22:44
	Nov 8 12:57	Nov 16 17:45	Nov 23 18:09	Nov 30 09:09
	Dec 8 07:41	Dec 16 10:22	Dec 23 04:37	Dec 29 23:18
1894 00h00m	Jan 7 03:08	Jan 15 00:09	Jan 21 15:12	Jan 28 16:51
	Feb 5 21:46	Feb 13 10:43	Feb 20 02:17	Feb 27 12:28
	Mar 7 14:19	Mar 14 18:28	Mar 21 14:11 p	Mar 29 08:29
	Apr 6 04:01 A	Apr 13 00:33	Apr 20 03:01	Apr 28 03:22
	May 5 14:43	May 12 06:21	May 19 16:43	May 27 20:06

Jun 3	22:56	Jun 10	13:13	Jun 18	07:06	Jun 26	10:04
Jul 3	05:45	Jul 9	22:14	Jul 17	22:02	Jul 25	21:07
Aug 1	12:24	Aug 8	10:04	Aug 16	13:17	Aug 24	05:39
Aug 30	20:04	Sep 7	01:01	Sep 15	04:21 p	Sep 22	12:32
Sep 29	05:43 T	Oct 6	19:00	Oct 14	18:41	Oct 21	18:56
Oct 28	17:57	Nov 5	15:16	Nov 13	07:49	Nov 20	02:09
Nov 27	08:54	Dec 5	12:15	Dec 12	19:46	Dec 19	11:17
Dec 27	02:20						

1895 00h00m		Jan 4	07:52	Jan 11	06:50	Jan 17	22:56	
	Jan 25	21:26	Feb 3	00:16	Feb 9	17:23	Feb 16	13:09
	Feb 24	16:44	Mar 4	12:40	Mar 11	03:38 t	Mar 18	05:33
	Mar 26	10:26 P	Apr 2	21:27	Apr 9	13:43	Apr 16	23:24
	Apr 25	01:12	May 2	03:43	May 8	23:58	May 16	17:45
	May 24	12:47	May 31	08:48	Jun 7	10:59	Jun 15	11:29
	Jun 22	21:51	Jun 29	14:01	Jul 6	23:28	Jul 15	03:31
	Jul 22	05:31	Jul 28	20:36	Aug 5	13:51	Aug 13	17:19
	Aug 20	12:55 P	Aug 27	05:43	Sep 4	05:55 t	Sep 12	04:51
	Sep 18	20:55 P	Sep 25	18:22	Oct 3	22:48	Oct 11	14:34
	Oct 18	06:09	Oct 25	11:03	Nov 2	15:19	Nov 9	23:07
	Nov 16	17:11	Nov 24	07:18	Dec 2	06:39	Dec 9	07:10
	Dec 16	06:30	Dec 24	05:20	Dec 31	20:31		

Year	New Moon	First Quarter	Full Moon	Last Quarter
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1896 00h00m				Jan 7	15:26			
	Jan 14	22:20	Jan 23	02:41	Jan 30	08:55	Feb 6	00:39
	Feb 13	16:13 A	Feb 21	21:14	Feb 28	19:51 p	Mar 6	11:30
	Mar 14	10:48	Mar 22	11:55	Mar 29	05:21	Apr 5	00:25
	Apr 13	04:23	Apr 20	22:45	Apr 27	13:46	May 4	15:25
	May 12	19:47	May 20	06:20	May 26	21:55	Jun 3	08:02
	Jun 11	08:42	Jun 18	11:41	Jun 25	06:54	Jul 3	01:23
	Jul 10	19:34	Jul 17	16:05	Jul 24	17:44	Aug 1	18:35
	Aug 9	05:01 T	Aug 15	21:03	Aug 23	07:04 p	Aug 31	10:56
	Sep 7	13:42	Sep 14	04:10	Sep 21	22:50	Sep 30	01:59
	Oct 6	22:17	Oct 13	14:47	Oct 21	16:18	Oct 29	15:21
	Nov 5	07:27	Nov 12	05:39	Nov 20	10:26	Nov 28	02:44
	Dec 4	17:51	Dec 12	00:28	Dec 20	04:06	Dec 27	12:09

1897 00h00m	Jan 3	06:04	Jan 10	21:44	Jan 18	20:18 n	Jan 25	20:09
	Feb 1	20:14 A	Feb 9	19:25	Feb 17	10:12 n	Feb 24	03:44
	Mar 3	11:57	Mar 11	15:29	Mar 18	21:28	Mar 25	12:00
	Apr 2	04:25	Apr 10	08:27	Apr 17	06:25	Apr 23	21:48
	May 1	20:47	May 9	21:37	May 16	13:54	May 23	09:34
	May 31	12:26	Jun 8	07:02	Jun 14	21:01	Jun 21	23:24
	Jun 30	02:55	Jul 7	13:32	Jul 14	04:51 n	Jul 21	15:08
	Jul 29	15:57 A	Aug 5	18:24	Aug 12	14:21 n	Aug 20	08:30
	Aug 28	03:27	Sep 3	23:13	Sep 11	02:10	Sep 19	02:51
	Sep 26	13:44	Oct 3	05:31	Oct 10	16:40	Oct 18	21:09
	Oct 25	23:26	Nov 1	14:36	Nov 9	09:49	Nov 17	14:01
	Nov 24	09:19	Dec 1	03:13	Dec 9	04:54	Dec 17	04:21
	Dec 23	19:55	Dec 30	19:25				

1898 00h00m				Jan 8	00:24 p	Jan 15	15:44	
	Jan 22	07:25 T	Jan 29	14:32	Feb 6	18:25	Feb 14	00:34
	Feb 20	19:42	Feb 28	11:14	Mar 8	09:30	Mar 15	07:48

Mar 22	08:39	Mar 30	07:41	Apr 6	21:21	Apr 13	14:29
Apr 20	22:22	Apr 29	02:05	May 6	06:35	May 12	21:36
May 20	12:59	May 28	17:14	Jun 4	14:12	Jun 11	06:05
Jun 19	04:20	Jun 27	04:54	Jul 3	21:12 p	Jul 10	16:43
Jul 18	19:47 A	Jul 26	13:39	Aug 2	04:28	Aug 9	06:14
Aug 17	10:33	Aug 24	20:32	Aug 31	12:50	Sep 7	22:51
Sep 16	00:08	Sep 23	02:39	Sep 29	23:09	Oct 7	18:04
Oct 15	12:35	Oct 22	09:09	Oct 29	12:16	Nov 6	14:27
Nov 14	00:19	Nov 20	17:05	Nov 28	04:38	Dec 6	10:05
Dec 13	11:42 P	Dec 20	03:21	Dec 27	23:38 t		

1899  
00h00m

						Jan 5	03:21
Jan 11	22:49 P	Jan 18	16:36	Jan 26	19:33	Feb 3	17:24
Feb 10	09:32	Feb 17	08:52	Feb 25	14:16	Mar 5	04:06
Mar 11	19:54	Mar 19	03:23	Mar 27	06:19	Apr 3	11:56
Apr 10	06:22	Apr 17	22:42	Apr 25	19:23	May 2	17:47
May 9	17:40	May 17	17:11	May 25	05:50	May 31	22:55
Jun 8	06:21 P	Jun 16	09:46	Jun 23	14:21 t	Jun 30	04:45
Jul 7	20:32	Jul 15	23:59	Jul 22	21:42	Jul 29	12:43
Aug 6	11:48	Aug 14	11:54	Aug 21	04:45	Aug 27	23:57
Sep 5	03:32	Sep 12	21:49	Sep 19	12:31	Sep 26	15:02
Oct 4	19:13	Oct 12	06:09	Oct 18	22:04	Oct 26	09:39
Nov 3	10:25	Nov 10	13:35	Nov 17	10:17	Nov 25	06:34
Dec 3	00:46 A	Dec 9	21:03	Dec 17	01:30 p	Dec 25	03:58

1900  
00h00m

Jan 1	13:51	Jan 8	05:40	Jan 15	19:06	Jan 23	23:54
Jan 31	01:22	Feb 6	16:23	Feb 14	13:49	Feb 22	16:44
Mar 1	11:25	Mar 8	05:33	Mar 16	08:11	Mar 24	05:36
Mar 30	20:31	Apr 6	20:53	Apr 15	01:02	Apr 22	14:33
Apr 29	05:24	May 6	13:37	May 14	15:37	May 21	20:30
May 28	14:51 T	Jun 5	06:58	Jun 13	03:39 n	Jun 20	00:57
Jun 27	01:28	Jul 5	00:14	Jul 12	13:23	Jul 19	05:32
Jul 26	13:43	Aug 3	16:46	Aug 10	21:31	Aug 17	11:47
Aug 25	03:53	Sep 2	07:56	Sep 9	05:07	Sep 15	20:58
Sep 23	19:57	Oct 1	21:10	Oct 8	13:19	Oct 15	09:51
Oct 23	13:27	Oct 31	08:17	Nov 6	22:59	Nov 14	02:37
Nov 22	07:16 A	Nov 29	17:34	Dec 6	10:37 n	Dec 13	22:43
Dec 22	00:00	Dec 29	01:47				

Year	New Moon	First Quarter	Full Moon	Last Quarter
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1901  
00h00m

			Jan 5	00:12	Jan 12	20:39	
Jan 20	14:35	Jan 27	09:51	Feb 3	15:28	Feb 11	18:12
Feb 19	02:44	Feb 25	18:37	Mar 5	08:02	Mar 13	13:06
Mar 20	12:53	Mar 27	04:38	Apr 4	01:19	Apr 12	03:57
Apr 18	21:38	Apr 25	16:14	May 3	18:18 n	May 11	14:37
May 18	05:38 T	May 25	05:39	Jun 2	09:53	Jun 9	21:59
Jun 16	13:33	Jun 23	20:59	Jul 1	23:19	Jul 9	03:20
Jul 15	22:11	Jul 23	13:58	Jul 31	10:35	Aug 7	08:03
Aug 14	08:27	Aug 22	07:52	Aug 29	20:22	Sep 5	13:29
Sep 12	21:18	Sep 21	01:33	Sep 28	05:37	Oct 4	20:54
Oct 12	13:11	Oct 20	17:57	Oct 27	15:07 p	Nov 3	07:26
Nov 11	07:34 A	Nov 19	08:23	Nov 26	01:18	Dec 2	21:51
Dec 11	02:53	Dec 18	20:35	Dec 25	12:15		

1902  
00h00m

					Jan 1	16:09	
Jan 9	21:14	Jan 17	06:38	Jan 24	00:05	Jan 31	13:09
Feb 8	13:22	Feb 15	14:56	Feb 22	13:02	Mar 2	10:39

Mar 10	02:50	Mar 16	22:13	Mar 24	03:20	Apr 1	06:24
Apr 8	13:50 P	Apr 15	05:25	Apr 22	18:49 t	Apr 30	22:58
May 7	22:45 P	May 14	13:39	May 22	10:45	May 30	12:00
Jun 6	06:11	Jun 12	23:53	Jun 21	02:17	Jun 28	21:52
Jul 5	12:59	Jul 12	12:45	Jul 20	16:45	Jul 28	05:15
Aug 3	20:17	Aug 11	04:22	Aug 19	06:04	Aug 26	11:05
Sep 2	05:18	Sep 9	22:13	Sep 17	18:24	Sep 24	16:32
Oct 1	17:08	Oct 9	17:20	Oct 17	06:02 t	Oct 23	22:59
Oct 31	08:13 P	Nov 8	12:31	Nov 15	17:07	Nov 22	07:48
Nov 30	02:05	Dec 8	06:27	Dec 15	03:48	Dec 21	20:01
Dec 29	21:25						

1903  
00h00m

		Jan 6	21:57	Jan 13	14:18	Jan 20	11:50
Jan 28	16:39	Feb 5	10:12	Feb 12	00:58	Feb 19	06:22
Feb 27	10:20	Mar 6	19:13	Mar 13	12:13	Mar 21	02:08
Mar 29	01:27 A	Apr 5	01:51	Apr 12	00:18 p	Apr 19	21:31
Apr 27	13:32	May 4	07:25	May 11	13:17	May 19	15:19
May 26	22:49	Jun 2	13:23	Jun 10	03:07	Jun 18	06:45
Jun 25	06:10	Jul 1	21:01	Jul 9	17:43	Jul 17	19:25
Jul 24	12:46	Jul 31	07:14	Aug 8	08:54	Aug 16	05:23
Aug 22	19:51	Aug 29	20:33	Sep 7	00:20	Sep 14	13:14
Sep 21	04:30 T	Sep 28	13:07	Oct 6	15:24 p	Oct 13	19:57
Oct 20	15:30	Oct 28	08:33	Nov 5	05:28	Nov 12	02:46
Nov 19	05:10	Nov 27	05:37	Dec 4	18:13	Dec 11	10:54
Dec 18	21:26	Dec 27	02:23				

1904  
00h00m

				Jan 3	05:48	Jan 9	21:11
Jan 17	15:47	Jan 25	20:40	Feb 1	16:33	Feb 8	09:56
Feb 16	11:05	Feb 24	11:07	Mar 2	02:48 n	Mar 9	01:01
Mar 17	05:39 A	Mar 24	21:35	Mar 31	12:43 n	Apr 7	17:54
Apr 15	21:53	Apr 23	04:53	Apr 29	22:35	May 7	11:51
May 15	10:58	May 22	10:17	May 29	08:53	Jun 6	05:53
Jun 13	21:10	Jun 20	15:10	Jun 27	20:22	Jul 5	22:55
Jul 13	05:27	Jul 19	20:49	Jul 27	09:41	Aug 4	14:03
Aug 11	12:58	Aug 18	04:28	Aug 26	01:03	Sep 3	02:59
Sep 9	20:43 T	Sep 16	15:13	Sep 24	17:51 n	Oct 2	13:53
Oct 9	05:25	Oct 16	05:54	Oct 24	10:57	Oct 31	23:14
Nov 7	15:37	Nov 15	00:35	Nov 23	03:13	Nov 30	07:39
Dec 7	03:47	Dec 14	22:06	Dec 22	18:02	Dec 29	15:47

1905  
00h00m

Jan 5	18:18	Jan 13	20:10	Jan 21	07:15	Jan 28	00:21
Feb 4	11:07	Feb 12	16:20	Feb 19	18:53 p	Feb 26	10:05
Mar 6	05:20 A	Mar 14	08:59	Mar 21	04:56	Mar 27	21:36
Apr 4	23:24	Apr 12	21:41	Apr 19	13:37	Apr 26	11:14
May 4	15:51	May 12	06:46	May 18	21:35	May 26	02:50
Jun 3	05:57	Jun 10	13:04	Jun 17	05:50	Jun 24	19:45
Jul 2	17:49	Jul 9	17:47	Jul 16	15:31	Jul 24	13:09
Aug 1	04:02	Aug 7	22:17	Aug 15	03:31 p	Aug 23	06:11
Aug 30	13:12 T	Sep 6	04:09	Sep 13	18:10	Sep 21	22:15
Sep 28	21:58	Oct 5	12:54	Oct 13	11:03	Oct 21	12:51
Oct 28	06:57	Nov 4	01:38	Nov 12	05:12	Nov 20	01:34
Nov 26	16:47	Dec 3	18:36	Dec 11	23:26	Dec 19	12:09
Dec 26	04:05						

Year  
Delta T

New Moon      First Quarter      Full Moon      Last Quarter

1906  
00h00m

		Jan 2	14:51	Jan 10	16:37	Jan 17	20:49
Jan 24	17:11	Feb 1	12:30	Feb 9	07:47 t	Feb 16	04:23

Feb 23	07:59	P	Mar 3	09:29	Mar 10	20:19	Mar 17	11:59	
Mar 24	23:54		Apr 2	04:03	Apr 9	06:13	Apr 15	20:38	
Apr 23	16:08		May 1	19:08	May 8	14:10	May 15	07:03	
May 23	08:02		May 31	06:24	Jun 6	21:12	Jun 13	19:34	
Jun 21	23:05		Jun 29	14:19	Jul 6	04:27	Jul 13	10:13	
Jul 21	12:58	P	Jul 28	19:56	Aug 4	12:59	t	Aug 12	02:48
Aug 20	01:26	P	Aug 27	00:42	Sep 2	23:35		Sep 10	20:55
Sep 18	12:32		Sep 25	06:11	Oct 2	12:47		Oct 10	15:40
Oct 17	22:41		Oct 24	13:50	Nov 1	04:46		Nov 9	09:46
Nov 16	08:36		Nov 23	00:39	Nov 30	23:08		Dec 9	01:45
Dec 15	18:55		Dec 22	15:03	Dec 30	18:44			

1907  
00h00m

							Jan 7	14:47	
Jan 14	05:58	T	Jan 21	08:42	Jan 29	13:46	p	Feb 6	00:52
Feb 12	17:44		Feb 20	04:35	Feb 28	06:24		Mar 7	08:42
Mar 14	06:07		Mar 22	01:10	Mar 29	19:46		Apr 5	15:21
Apr 12	19:07		Apr 20	20:38	Apr 28	06:06		May 4	21:54
May 12	09:00		May 20	13:27	May 27	14:18		Jun 3	05:20
Jun 10	23:50		Jun 19	02:54	Jun 25	21:27		Jul 2	14:34
Jul 10	15:17	A	Jul 18	13:11	Jul 25	04:29	p	Aug 1	02:26
Aug 9	06:35		Aug 16	21:05	Aug 23	12:14		Aug 30	17:28
Sep 7	21:03		Sep 15	03:40	Sep 21	21:32		Sep 29	11:37
Oct 7	10:19		Oct 14	10:02	Oct 21	09:15		Oct 29	07:52
Nov 5	22:38		Nov 12	17:15	Nov 20	00:04		Nov 28	04:21
Dec 5	10:22		Dec 12	02:17	Dec 19	17:56		Dec 27	23:11

1908  
00h00m

Jan 3	21:44	T	Jan 10	13:54	Jan 18	13:37	n	Jan 26	15:02
Feb 2	08:37		Feb 9	04:28	Feb 17	09:06		Feb 25	03:25
Mar 2	18:58		Mar 9	21:42	Mar 18	02:30		Mar 25	12:32
Apr 1	05:04		Apr 8	16:31	Apr 16	16:57		Apr 23	19:07
Apr 30	15:35		May 8	11:23	May 16	04:34		May 23	00:18
May 30	03:16		Jun 7	04:56	Jun 14	13:57	n	Jun 21	05:27
Jun 28	16:33	A	Jul 6	20:25	Jul 13	21:49	n	Jul 20	12:03
Jul 28	07:18		Aug 5	09:41	Aug 12	04:59		Aug 18	21:26
Aug 26	22:59		Sep 3	20:51	Sep 10	12:23		Sep 17	10:33
Sep 25	14:59		Oct 3	06:13	Oct 9	21:03		Oct 17	03:35
Oct 25	06:45		Nov 1	14:16	Nov 8	07:57		Nov 15	23:40
Nov 23	21:52		Nov 30	21:44	Dec 7	21:43	n	Dec 15	21:13
Dec 23	11:49	A	Dec 30	05:40					

1909  
00h00m

					Jan 6	14:12		Jan 14	18:12
Jan 22	00:11		Jan 28	15:07	Feb 5	08:24		Feb 13	12:48
Feb 20	10:52		Feb 27	02:49	Mar 7	02:55		Mar 15	03:42
Mar 21	20:12		Mar 28	16:48	Apr 5	20:28		Apr 13	14:30
Apr 20	04:53		Apr 27	08:35	May 5	12:08		May 12	21:45
May 19	13:43		May 27	01:27	Jun 4	01:26	t	Jun 11	02:43
Jun 17	23:30	H	Jun 25	18:43	Jul 3	12:19		Jul 10	06:59
Jul 17	10:46		Jul 25	11:46	Aug 1	21:15		Aug 8	12:11
Aug 15	23:55		Aug 24	03:56	Aug 31	05:09		Sep 6	19:46
Sep 14	15:09		Sep 22	18:31	Sep 29	13:06		Oct 6	06:45
Oct 14	08:13		Oct 22	07:03	Oct 28	22:07		Nov 4	21:38
Nov 13	02:18		Nov 20	17:28	Nov 27	08:51	t	Dec 4	16:13
Dec 12	19:58	P	Dec 20	02:17	Dec 26	21:29			

1910  
00h00m

							Jan 3	13:28	
Jan 11	11:51		Jan 18	10:20	Jan 25	11:50		Feb 2	11:29
Feb 10	01:13		Feb 16	18:32	Feb 24	03:35		Mar 4	07:53
Mar 11	12:13		Mar 18	03:37	Mar 25	20:20		Apr 3	00:48
Apr 9	21:26		Apr 16	14:04	Apr 24	13:22		May 2	13:30

May 9	05:33	T	May 16	02:12	May 24	05:39	t	May 31	22:24
Jun 7	13:17		Jun 14	16:19	Jun 22	20:12		Jun 30	04:39
Jul 6	21:20		Jul 14	08:24	Jul 22	08:38		Jul 29	09:35
Aug 5	06:37		Aug 13	02:00	Aug 20	19:15		Aug 27	14:34
Sep 3	18:05		Sep 11	20:09	Sep 19	04:53		Sep 25	20:55
Oct 3	08:31		Oct 11	13:39	Oct 18	14:25		Oct 25	05:49
Nov 2	01:56	P	Nov 10	05:28	Nov 17	00:25	t	Nov 23	18:14
Dec 1	21:10		Dec 9	19:04	Dec 16	11:05		Dec 23	10:36
Dec 31	16:21								

Year Delta T	New Moon	First Quarter	Full Moon	Last Quarter
1911 00h00m		Jan 8 06:19	Jan 14 22:25	Jan 22 06:21
	Jan 30 09:45	Feb 6 15:27	Feb 13 10:37	Feb 21 03:44
	Mar 1 00:32	Mar 7 23:01	Mar 14 23:58	Mar 23 00:27
	Mar 30 12:38	Apr 6 05:55	Apr 13 14:36	Apr 21 18:36
	Apr 28 22:25 T	May 5 13:14	May 13 06:09 n	May 21 09:23
	May 28 06:24	Jun 3 22:04	Jun 11 21:51	Jun 19 20:51
	Jun 26 13:19	Jul 3 09:19	Jul 11 12:53	Jul 19 05:31
	Jul 25 20:12	Aug 1 23:28	Aug 10 02:55	Aug 17 12:11
	Aug 24 04:14	Aug 31 16:19	Sep 8 15:57	Sep 15 17:52
	Sep 22 14:36	Sep 30 11:06	Oct 8 04:12	Oct 14 23:47
	Oct 22 04:09 A	Oct 30 06:41	Nov 6 15:48 n	Nov 13 07:20
	Nov 20 20:49	Nov 29 01:42	Dec 6 02:52	Dec 12 17:46
	Dec 20 15:40	Dec 28 18:47		
1912 00h00m			Jan 4 13:29	Jan 11 07:42
	Jan 19 11:09	Jan 27 08:50	Feb 2 23:57	Feb 10 00:50
	Feb 18 05:43	Feb 25 19:25	Mar 3 10:41	Mar 10 19:54
	Mar 18 22:08	Mar 26 03:01	Apr 1 22:03 p	Apr 9 15:24
	Apr 17 11:40 A	Apr 24 08:46	May 1 10:18	May 9 09:57
	May 16 22:13	May 23 14:10	May 30 23:29	Jun 8 02:37
	Jun 15 06:23	Jun 21 20:38	Jun 29 13:33	Jul 7 16:48
	Jul 14 13:13	Jul 21 05:18	Jul 29 04:28	Aug 6 04:18
	Aug 12 19:58	Aug 19 16:56	Aug 27 19:59	Sep 4 13:23
	Sep 11 03:48	Sep 18 07:54	Sep 26 11:35 p	Oct 3 20:48
	Oct 10 13:40 T	Oct 18 02:06	Oct 26 02:31	Nov 2 03:38
	Nov 9 02:05	Nov 16 22:44	Nov 24 16:13	Dec 1 11:05
	Dec 8 17:07	Dec 16 20:06	Dec 24 04:30	Dec 30 20:12
1913 00h00m	Jan 7 10:28	Jan 15 16:00	Jan 22 15:40	Jan 29 07:34
	Feb 6 05:21	Feb 14 08:32	Feb 21 02:03	Feb 27 21:15
	Mar 8 00:22	Mar 15 20:56	Mar 22 11:55 t	Mar 29 12:57
	Apr 6 17:48 P	Apr 14 05:37	Apr 20 21:31	Apr 28 06:10
	May 6 08:25	May 13 11:43	May 20 07:17	May 28 00:04
	Jun 4 19:57	Jun 11 16:36	Jun 18 17:52	Jun 26 17:41
	Jul 4 05:06	Jul 10 21:37	Jul 18 06:05	Jul 26 09:59
	Aug 2 12:57	Aug 9 04:03	Aug 16 20:26	Aug 25 00:18
	Aug 31 20:37 P	Sep 7 13:06	Sep 15 12:46 t	Sep 23 12:30
	Sep 30 04:56 P	Oct 7 01:45	Oct 15 06:07	Oct 22 22:53
	Oct 29 14:28	Nov 5 18:33	Nov 13 23:12	Nov 21 07:56
	Nov 28 01:41	Dec 5 14:58	Dec 13 15:01	Dec 20 16:16
	Dec 27 14:59			
1914 00h00m		Jan 4 13:07	Jan 12 05:09	Jan 19 00:30
	Jan 26 06:34	Feb 3 10:31	Feb 10 17:35	Feb 17 09:23
	Feb 25 00:02 A	Mar 5 05:02	Mar 12 04:18 p	Mar 18 19:40
	Mar 26 18:09	Apr 3 19:40	Apr 10 13:27	Apr 17 07:52

Apr 25	11:22	May 3	06:27	May 9	21:29	May 16	22:12
May 25	02:35	Jun 1	14:02	Jun 8	05:17	Jun 15	14:19
Jun 23	15:32	Jun 30	19:24	Jul 7	13:58	Jul 15	07:31
Jul 23	02:37	Jul 29	23:51	Aug 6	00:39	Aug 14	00:56
Aug 21	12:25 T	Aug 28	04:53	Sep 4	14:00 p	Sep 12	17:49
Sep 19	21:32	Sep 26	12:03	Oct 4	05:59	Oct 12	09:34
Oct 19	06:32	Oct 25	22:43	Nov 2	23:49	Nov 10	23:37
Nov 17	16:02	Nov 24	13:37	Dec 2	18:21	Dec 10	11:32
Dec 17	02:36	Dec 24	08:23				

1915  
00h00m

				Jan 1	12:21	Jan 8	21:13
Jan 15	14:43	Jan 23	05:31	Jan 31	04:42 n	Feb 7	05:11
Feb 14	04:32 A	Feb 22	02:58	Mar 1	18:33 n	Mar 8	12:28
Mar 15	19:43	Mar 23	22:48	Mar 31	05:38	Apr 6	20:12
Apr 14	11:36	Apr 22	15:38	Apr 29	14:18	May 6	05:22
May 14	03:30	May 22	04:49	May 28	21:31	Jun 4	16:30
Jun 12	18:56	Jun 20	14:23	Jun 27	04:26	Jul 4	05:53
Jul 12	09:29	Jul 19	21:07	Jul 26	12:09 n	Aug 2	21:26
Aug 10	22:50 A	Aug 18	02:16	Aug 24	21:38 n	Sep 1	14:57
Sep 9	10:50	Sep 16	07:20	Sep 23	09:33	Oct 1	09:45
Oct 8	21:40	Oct 15	13:51	Oct 23	00:14	Oct 31	04:40
Nov 7	07:51	Nov 13	23:03	Nov 21	17:36	Nov 29	22:11
Dec 6	18:03	Dec 13	11:38	Dec 21	12:53	Dec 29	12:59

Year  
Delta T

New Moon                      First Quarter                      Full Moon                      Last Quarter

1916  
00h00m

Jan 5	04:46	Jan 12	03:37	Jan 20	08:29 p	Jan 28	00:35
Feb 3	16:07 T	Feb 10	22:20	Feb 19	02:29	Feb 26	09:23
Mar 4	03:59	Mar 11	18:33	Mar 19	17:28	Mar 26	16:22
Apr 2	16:22	Apr 10	14:35	Apr 18	05:08	Apr 24	22:38
May 2	05:29	May 10	08:46	May 17	14:11	May 24	05:16
May 31	19:37	Jun 8	23:58	Jun 15	21:41	Jun 22	13:16
Jun 30	10:43	Jul 8	11:54	Jul 15	04:39 p	Jul 21	23:33
Jul 30	02:14 A	Aug 6	21:05	Aug 13	11:59	Aug 20	12:53
Aug 28	17:23	Sep 5	04:25	Sep 11	20:29	Sep 19	05:35
Sep 27	07:32	Oct 4	11:00	Oct 11	06:59	Oct 19	01:08
Oct 26	20:35	Nov 2	17:50	Nov 9	20:16	Nov 17	21:59
Nov 25	08:49	Dec 2	01:55	Dec 9	12:43	Dec 17	18:06
Dec 24	20:30 P	Dec 31	12:07				

1917  
00h00m

				Jan 8	07:41 t	Jan 16	11:42
Jan 23	07:39 P	Jan 30	01:01	Feb 7	03:28	Feb 15	01:53
Feb 21	18:09	Feb 28	16:44	Mar 8	21:58	Mar 16	12:33
Mar 23	04:06	Mar 30	10:36	Apr 7	13:50	Apr 14	20:12
Apr 21	14:03	Apr 29	05:21	May 7	02:44	May 14	01:48
May 21	00:48	May 28	23:32	Jun 5	13:08	Jun 12	06:39
Jun 19	13:03 P	Jun 27	16:08	Jul 4	21:41 t	Jul 11	12:13
Jul 19	03:00 P	Jul 27	06:40	Aug 3	05:11	Aug 9	19:57
Aug 17	18:21	Aug 25	19:08	Sep 1	12:28	Sep 8	07:05
Sep 16	10:27	Sep 24	05:41	Sep 30	20:30	Oct 7	22:14
Oct 16	02:40	Oct 23	14:37	Oct 30	06:18	Nov 6	17:03
Nov 14	18:27	Nov 21	22:28	Nov 28	18:40	Dec 6	14:13
Dec 14	09:16 A	Dec 21	06:07	Dec 28	09:51 t		

1918  
00h00m

						Jan 5	11:50
Jan 12	22:34	Jan 19	14:38	Jan 27	03:13	Feb 4	07:53
Feb 11	10:04	Feb 18	00:57	Feb 25	21:34	Mar 6	00:45
Mar 12	19:53	Mar 19	13:30	Mar 27	15:33	Apr 4	13:34



Apr 11	04:35	Apr 18	04:06	Apr 26	08:06	May 3	22:26
May 10	13:02	May 17	20:13	May 25	22:33	Jun 2	04:20
Jun 8	22:03 T	Jun 16	13:11	Jun 24	10:39 p	Jul 1	08:42
Jul 8	08:22	Jul 16	06:24	Jul 23	20:35	Jul 30	13:14
Aug 6	20:29	Aug 14	23:16	Aug 22	05:02	Aug 28	19:27
Sep 5	10:42	Sep 13	15:01	Sep 20	13:01	Sep 27	04:39
Oct 5	03:04	Oct 13	04:58	Oct 19	21:34	Oct 26	17:35
Nov 3	21:00	Nov 11	16:45	Nov 18	07:32	Nov 25	10:25
Dec 3	15:18 A	Dec 11	02:30	Dec 17	19:17 n	Dec 25	06:31

1919  
00h00m

Jan 2	08:23	Jan 9	10:54	Jan 16	08:43	Jan 24	04:23
Jan 31	23:07	Feb 7	18:52	Feb 14	23:37	Feb 23	01:49
Mar 2	11:12	Mar 9	03:14	Mar 16	15:40	Mar 24	20:35
Mar 31	21:05	Apr 7	12:38	Apr 15	08:25	Apr 23	11:22
Apr 30	05:31	May 6	23:33	May 15	01:01 n	May 22	22:04
May 29	13:12 T	Jun 5	12:21	Jun 13	16:28	Jun 21	05:32
Jun 27	20:52	Jul 5	03:16	Jul 13	06:02	Jul 20	11:03
Jul 27	05:21	Aug 3	20:10	Aug 11	17:40	Aug 18	15:56
Aug 25	15:36	Sep 2	14:20	Sep 10	03:55	Sep 16	21:32
Sep 24	04:32	Oct 2	08:35	Oct 9	13:39	Oct 16	05:06
Oct 23	20:38	Nov 1	01:42	Nov 7	23:35 p	Nov 14	15:41
Nov 22	15:19 A	Nov 30	16:46	Dec 7	10:03	Dec 14	06:03
Dec 22	10:55	Dec 30	05:24				

1920  
00h00m

				Jan 5	21:04	Jan 13	00:09
Jan 21	05:26	Jan 28	15:37	Feb 4	08:41	Feb 11	20:49
Feb 19	21:35	Feb 26	23:49	Mar 4	21:11	Mar 12	17:57
Mar 20	10:56	Mar 27	06:45	Apr 3	10:54	Apr 11	13:24
Apr 18	21:43	Apr 25	13:27	May 3	01:46 t	May 11	05:51
May 18	06:25 P	May 24	21:07	Jun 1	17:18	Jun 9	18:59
Jun 16	13:41	Jun 23	06:49	Jul 1	08:41	Jul 9	05:06
Jul 15	20:25	Jul 22	19:19	Jul 30	23:20	Aug 7	12:51
Aug 14	03:44	Aug 21	10:50	Aug 29	13:03	Sep 5	19:06
Sep 12	12:51	Sep 20	04:53	Sep 28	01:57	Oct 5	00:54
Oct 12	00:50	Oct 20	00:28	Oct 27	14:09 t	Nov 3	07:36
Nov 10	16:05 P	Nov 18	20:13	Nov 26	01:42	Dec 2	16:30
Dec 10	10:04	Dec 18	14:40	Dec 25	12:38		

Year  
Delta T

New Moon      First Quarter      Full Moon      Last Quarter

1921  
00h00m

						Jan 1	04:35
Jan 9	05:26	Jan 17	06:30	Jan 23	23:07	Jan 30	20:02
Feb 8	00:36	Feb 15	18:52	Feb 22	09:32	Mar 1	14:02
Mar 9	18:09	Mar 17	03:48	Mar 23	20:18	Mar 31	09:13
Apr 8	09:06 A	Apr 15	10:11	Apr 22	07:49 t	Apr 30	04:09
May 7	21:02	May 14	15:24	May 21	20:15	May 29	21:46
Jun 6	06:15	Jun 12	20:59	Jun 20	09:41	Jun 28	13:19
Jul 5	13:36	Jul 12	04:15	Jul 20	00:08	Jul 28	02:21
Aug 3	20:17	Aug 10	14:13	Aug 18	15:29	Aug 26	12:52
Sep 2	03:33	Sep 9	03:28	Sep 17	07:20	Sep 24	21:17
Oct 1	12:25 T	Oct 8	20:10	Oct 16	22:59 p	Oct 24	04:31
Oct 30	23:38	Nov 7	15:53	Nov 15	13:39	Nov 22	11:41
Nov 29	13:25	Dec 7	13:19	Dec 15	02:50	Dec 21	19:54
Dec 29	05:39						

1922  
00h00m

		Jan 6	10:23	Jan 13	14:36	Jan 20	06:00
Jan 27	23:48	Feb 5	04:51	Feb 12	01:17	Feb 18	18:18
Feb 26	18:47	Mar 6	19:20	Mar 13	11:14 n	Mar 20	08:43

Mar 28	13:03	A	Apr 5	05:44	Apr 11	20:43	n	Apr 19	00:54
Apr 27	05:04		May 4	12:54	May 11	06:05		May 18	18:18
May 26	18:05		Jun 2	18:09	Jun 9	15:57		Jun 17	12:04
Jun 25	04:20		Jul 1	22:52	Jul 9	03:07		Jul 17	05:12
Jul 24	12:47		Jul 31	04:22	Aug 7	16:18		Aug 15	20:46
Aug 22	20:34		Aug 29	11:56	Sep 6	07:47		Sep 14	10:20
Sep 21	04:38	T	Sep 27	22:40	Oct 6	00:59	n	Oct 13	21:55
Oct 20	13:39		Oct 27	13:26	Nov 4	18:37		Nov 12	07:52
Nov 19	00:06		Nov 26	08:14	Dec 4	11:24		Dec 11	16:41
Dec 18	12:20		Dec 26	05:52					

1923  
00h00m

					Jan 3	02:34		Jan 10	00:55
Jan 17	02:41		Jan 25	03:58	Feb 1	15:54		Feb 8	09:16
Feb 15	19:08		Feb 24	00:05	Mar 3	03:24	p	Mar 9	18:31
Mar 17	12:51	A	Mar 25	16:41	Apr 1	13:09		Apr 8	05:23
Apr 16	06:29		Apr 24	05:19	Apr 30	21:29		May 7	18:18
May 15	22:38		May 23	14:24	May 30	05:06		Jun 6	09:18
Jun 14	12:41		Jun 21	20:45	Jun 28	13:03		Jul 6	01:56
Jul 14	00:44		Jul 21	01:32	Jul 27	22:31		Aug 4	19:22
Aug 12	11:16		Aug 19	06:08	Aug 26	10:29	p	Sep 3	12:48
Sep 10	20:52	T	Sep 17	12:05	Sep 25	01:16		Oct 3	05:31
Oct 10	06:05		Oct 16	20:54	Oct 24	18:27		Nov 1	20:50
Nov 8	15:27		Nov 15	09:41	Nov 23	12:59		Dec 1	10:10
Dec 8	01:31		Dec 15	02:37	Dec 23	07:34		Dec 30	21:07

1924  
00h00m

Jan 6	12:49		Jan 13	22:43	Jan 22	00:57		Jan 29	05:53
Feb 5	01:40		Feb 12	20:08	Feb 20	16:08	t	Feb 27	13:15
Mar 5	15:59	P	Mar 13	16:50	Mar 21	04:31		Mar 27	20:24
Apr 4	07:18		Apr 12	11:12	Apr 19	14:11		Apr 26	04:28
May 3	23:00		May 12	02:13	May 18	21:52		May 25	14:16
Jun 2	14:34		Jun 10	13:37	Jun 17	04:41		Jun 24	02:15
Jul 2	05:34		Jul 9	21:46	Jul 16	11:48		Jul 23	16:36
Jul 31	19:41	P	Aug 8	03:41	Aug 14	20:18	t	Aug 22	09:11
Aug 30	08:36	P	Sep 6	08:46	Sep 13	06:59		Sep 21	03:37
Sep 28	20:15		Oct 5	14:30	Oct 12	20:21		Oct 20	22:56
Oct 28	06:56		Nov 3	22:19	Nov 11	12:30		Nov 19	17:39
Nov 26	17:15		Dec 3	09:10	Dec 11	07:04		Dec 19	10:11
Dec 26	03:46								

1925  
00h00m

			Jan 1	23:25	Jan 10	02:47		Jan 17	23:32
Jan 24	14:46	T	Jan 31	16:42	Feb 8	21:49	p	Feb 16	09:41
Feb 23	02:13		Mar 2	12:06	Mar 10	14:22		Mar 17	17:21
Mar 24	14:04		Apr 1	08:12	Apr 9	03:34		Apr 15	23:40
Apr 23	02:29		May 1	03:20	May 8	13:44		May 15	05:46
May 22	15:49		May 30	20:04	Jun 6	21:49		Jun 13	12:44
Jun 21	06:17		Jun 29	09:43	Jul 6	04:55		Jul 12	21:35
Jul 20	21:40	A	Jul 28	20:23	Aug 4	11:59	p	Aug 11	09:11
Aug 19	13:14		Aug 27	04:46	Sep 2	19:53		Sep 10	00:12
Sep 18	04:12		Sep 25	11:51	Oct 2	05:22		Oct 9	18:35
Oct 17	18:05		Oct 24	18:38	Oct 31	17:16		Nov 8	15:13
Nov 16	06:57		Nov 23	02:06	Nov 30	08:11		Dec 8	12:11
Dec 15	19:05		Dec 22	11:09	Dec 30	02:01			

Year  
Delta T

New Moon	First Quarter	Full Moon	Last Quarter
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1926  
00h00m

					Jan 7	07:23			
Jan 14	06:35	T	Jan 20	22:31	Jan 28	21:35	n	Feb 5	23:25
Feb 12	17:21		Feb 19	12:36	Feb 27	16:51		Mar 7	11:49

Mar 14	03:21	Mar 21	05:12	Mar 29	10:01	Apr 5	20:50
Apr 12	12:58	Apr 19	23:22	Apr 28	00:18	May 5	03:13
May 11	22:57	May 19	17:47	May 27	11:50	Jun 3	08:09
Jun 10	10:09	Jun 18	11:13	Jun 25	21:14 n	Jul 2	13:03
Jul 9	23:07 A	Jul 18	02:55	Jul 25	05:14 n	Jul 31	19:25
Aug 8	13:49	Aug 16	16:39	Aug 23	12:38	Aug 30	04:40
Sep 7	05:44	Sep 15	04:26	Sep 21	20:19	Sep 28	17:47
Oct 6	22:12	Oct 14	14:27	Oct 21	05:15	Oct 28	10:56
Nov 5	14:34	Nov 12	23:01	Nov 19	16:21	Nov 27	07:15
Dec 5	06:11	Dec 12	06:47	Dec 19	06:09 n	Dec 27	05:00

1927  
00h00m

Jan 3	20:28 A	Jan 10	14:44	Jan 17	22:27	Jan 26	02:07
Feb 2	08:54	Feb 8	23:54	Feb 16	16:18	Feb 24	20:44
Mar 3	19:25	Mar 10	11:03	Mar 18	10:24	Mar 26	11:36
Apr 2	04:25	Apr 9	00:20	Apr 17	03:35	Apr 24	22:21
May 1	12:41	May 8	15:25	May 16	19:03	May 24	05:33
May 30	21:06	Jun 7	07:47	Jun 15	08:20 t	Jun 22	10:29
Jun 29	06:32 H	Jul 7	00:52	Jul 14	19:23	Jul 21	14:43
Jul 28	17:36	Aug 5	18:05	Aug 13	04:38	Aug 19	19:55
Aug 27	06:45	Sep 4	10:45	Sep 11	12:55	Sep 18	03:30
Sep 25	22:10	Oct 4	02:01	Oct 10	21:15	Oct 17	14:32
Oct 25	15:37	Nov 2	15:15	Nov 9	06:36	Nov 16	05:28
Nov 24	10:09	Dec 2	02:14	Dec 8	17:32 t	Dec 16	00:04
Dec 24	04:13 P	Dec 31	11:22				

1928  
00h00m

				Jan 7	06:07	Jan 14	21:15
Jan 22	20:19	Jan 29	19:25	Feb 5	20:10	Feb 13	19:07
Feb 21	09:41	Feb 28	03:21	Mar 6	11:26	Mar 14	15:21
Mar 21	20:30	Mar 28	11:54	Apr 5	03:37	Apr 13	08:09
Apr 20	05:25	Apr 26	21:41	May 4	20:11	May 12	20:50
May 19	13:14 T	May 26	09:11	Jun 3	12:13 t	Jun 11	05:50
Jun 17	20:42 P	Jun 24	22:47	Jul 3	02:49	Jul 10	12:15
Jul 17	04:35	Jul 24	14:38	Aug 1	15:31	Aug 8	17:24
Aug 15	13:48	Aug 23	08:21	Aug 31	02:35	Sep 6	22:36
Sep 14	01:20	Sep 22	02:57	Sep 29	12:44	Oct 6	05:08
Oct 13	15:56	Oct 21	21:06	Oct 28	22:44	Nov 4	14:08
Nov 12	09:36 P	Nov 20	13:36	Nov 27	09:06 t	Dec 4	02:33
Dec 12	05:06	Dec 20	03:43	Dec 26	19:55		

1929  
00h00m

						Jan 2	18:46
Jan 11	00:29	Jan 18	15:15	Jan 25	07:09	Feb 1	14:12
Feb 9	17:56	Feb 17	00:22	Feb 23	18:59	Mar 3	11:10
Mar 11	08:38	Mar 18	07:42	Mar 25	07:46	Apr 2	07:30
Apr 9	20:34	Apr 16	14:10	Apr 23	21:48	May 2	01:27
May 9	06:08 T	May 15	20:56	May 23	12:50 n	May 31	16:14
Jun 7	13:57	Jun 14	05:14	Jun 22	04:15	Jun 30	03:54
Jul 6	20:47	Jul 13	16:04	Jul 21	19:21	Jul 29	12:56
Aug 5	03:40	Aug 12	06:00	Aug 20	09:43	Aug 27	20:02
Sep 3	11:47	Sep 10	22:55	Sep 18	23:16	Sep 26	02:07
Oct 2	22:18	Oct 10	18:04	Oct 18	12:06	Oct 25	08:22
Nov 1	12:00 A	Nov 9	14:09	Nov 17	00:14 n	Nov 23	16:05
Dec 1	04:48	Dec 9	09:42	Dec 16	11:38	Dec 23	02:28
Dec 30	23:42						

1930  
00h00m

		Jan 8	03:11	Jan 14	22:21	Jan 21	16:07
Jan 29	19:08	Feb 6	17:25	Feb 13	08:39	Feb 20	08:45
Feb 28	13:33	Mar 8	04:00	Mar 14	18:59	Mar 22	03:13
Mar 30	05:48	Apr 6	11:25	Apr 13	05:49 p	Apr 20	22:10
Apr 28	19:10 A	May 5	16:53	May 12	17:29	May 20	16:24

May 28	05:37	Jun 3	21:56	Jun 11	06:12	Jun 19	09:02
Jun 26	13:47	Jul 3	04:03	Jul 10	20:01	Jul 18	23:31
Jul 25	20:42	Aug 1	12:26	Aug 9	10:58	Aug 17	11:31
Aug 24	03:37	Aug 30	23:56	Sep 8	02:48	Sep 15	21:13
Sep 22	11:41	Sep 29	14:57	Oct 7	18:56 p	Oct 15	05:12
Oct 21	21:47 T	Oct 29	09:21	Nov 6	10:29	Nov 13	12:27
Nov 20	10:21	Nov 28	06:18	Dec 6	00:40	Dec 12	20:07
Dec 20	01:24	Dec 28	03:59				

Year Delta T	New Moon	First Quarter	Full Moon	Last Quarter
1931 00h00m			Jan 4 13:15	Jan 11 05:10
Jan 18	18:36	Jan 27 00:05	Feb 3 00:26	Feb 9 16:10
Feb 17	13:11	Feb 25 16:41	Mar 4 10:36	Mar 11 05:15
Mar 19	07:51	Mar 27 05:03	Apr 2 20:05 t	Apr 9 20:16
Apr 18	01:00 P	Apr 25 13:38	May 2 05:13	May 9 12:49
May 17	15:28	May 24 19:37	May 31 14:32	Jun 8 06:19
Jun 16	03:02	Jun 23 00:23	Jun 30 00:46	Jul 7 23:52
Jul 15	12:19	Jul 22 05:16	Jul 29 12:47	Aug 6 16:28
Aug 13	20:26	Aug 20 11:37	Aug 28 03:09	Sep 5 07:21
Sep 12	04:26 P	Sep 18 20:38	Sep 26 19:45 t	Oct 4 20:15
Oct 11	13:05 P	Oct 18 09:20	Oct 26 13:35	Nov 3 07:18
Nov 9	22:55	Nov 17 02:13	Nov 25 07:11	Dec 2 16:51
Dec 9	10:17	Dec 16 22:43	Dec 24 23:25	
1932 00h00m				Jan 1 01:24
Jan 7	23:30	Jan 15 20:54	Jan 23 13:45	Jan 30 09:33
Feb 6	14:46	Feb 14 18:15	Feb 22 02:08	Feb 28 18:04
Mar 7	07:45 A	Mar 15 12:41	Mar 22 12:38 p	Mar 29 03:44
Apr 6	01:22	Apr 14 03:15	Apr 20 21:26	Apr 27 15:15
May 5	18:12	May 13 14:01	May 20 05:08	May 27 04:55
Jun 4	09:16	Jun 11 21:39	Jun 18 12:37	Jun 25 20:36
Jul 3	22:19	Jul 11 03:07	Jul 17 21:05	Jul 25 13:41
Aug 2	09:41	Aug 9 07:41	Aug 16 07:41	Aug 24 07:22
Aug 31	19:53 T	Sep 7 12:50	Sep 14 21:06 p	Sep 23 00:48
Sep 30	05:28	Oct 6 20:06	Oct 14 13:18	Oct 22 17:14
Oct 29	14:55	Nov 5 06:50	Nov 13 07:28	Nov 21 07:58
Nov 28	00:43	Dec 4 21:44	Dec 13 02:21	Dec 20 20:22
Dec 27	11:23			
1933 00h00m		Jan 3 16:22	Jan 11 20:36	Jan 19 06:15
Jan 25	23:21	Feb 2 13:15	Feb 10 13:01 n	Feb 17 14:08
Feb 24	12:45 A	Mar 4 10:23	Mar 12 02:47 n	Mar 18 21:05
Mar 26	03:22	Apr 3 05:57	Apr 10 13:39	Apr 17 04:18
Apr 24	18:40	May 2 22:40	May 9 22:05	May 16 12:51
May 24	10:08	Jun 1 11:53	Jun 8 05:05	Jun 14 23:26
Jun 23	01:22	Jun 30 21:41	Jul 7 11:51	Jul 14 12:24
Jul 22	16:03	Jul 30 04:44	Aug 5 19:31 n	Aug 13 03:50
Aug 21	05:47 A	Aug 28 10:13	Sep 4 05:03 n	Sep 11 21:31
Sep 19	18:19	Sep 26 15:36	Oct 3 17:06	Oct 11 16:47
Oct 19	05:43	Oct 25 22:20	Nov 2 07:58	Nov 10 12:18
Nov 17	16:22	Nov 24 07:38	Dec 2 01:30	Dec 10 06:23
Dec 17	02:52	Dec 23 20:08	Dec 31 20:54	
1934 00h00m				Jan 8 21:35
Jan 15	13:37	Jan 22 11:49	Jan 30 16:31 p	Feb 7 09:21
Feb 14	00:44 T	Feb 21 06:05	Mar 1 10:26	Mar 8 18:05
Mar 15	12:10	Mar 23 01:45	Mar 31 01:16	Apr 7 00:48

Apr 13	23:59	Apr 21	21:21	Apr 29	12:47	May 6	06:41
May 13	12:31	May 21	15:20	May 28	21:42	Jun 4	12:53
Jun 12	02:12	Jun 20	06:36	Jun 27	05:09	Jul 3	20:28
Jul 11	17:06	Jul 19	18:52	Jul 26	12:09 p	Aug 2	06:27
Aug 10	08:45 A	Aug 18	04:32	Aug 24	19:36	Aug 31	19:40
Sep 9	00:19	Sep 16	12:25	Sep 23	04:18	Sep 30	12:29
Oct 8	15:03	Oct 15	19:28	Oct 22	14:59	Oct 30	08:21
Nov 7	04:42	Nov 14	02:39	Nov 21	04:25	Nov 29	05:38
Dec 6	17:23	Dec 13	10:52	Dec 20	20:52	Dec 29	02:08

1935 00h00m	Jan 5	05:19	Jan 11	20:55	Jan 19	15:44 t	Jan 27	19:59
	Feb 3	16:27 P	Feb 10	09:25	Feb 18	11:17	Feb 26	10:14
	Mar 5	02:41	Mar 12	00:30	Mar 20	05:32	Mar 27	20:50
	Apr 3	12:12	Apr 10	17:42	Apr 18	21:11	Apr 26	04:21
	May 2	21:38	May 10	11:53	May 18	09:58	May 25	09:45
	Jun 1	07:53	Jun 9	05:48	Jun 16	20:21	Jun 23	14:22
	Jun 30	19:45 P	Jul 8	22:28	Jul 16	05:01 t	Jul 22	19:43
	Jul 30	09:33 P	Aug 7	13:23	Aug 14	12:44	Aug 21	03:18
	Aug 29	01:00	Sep 6	02:26	Sep 12	20:18	Sep 19	14:23
	Sep 27	17:29	Oct 5	13:39	Oct 12	04:39	Oct 19	05:36
	Oct 27	10:15	Nov 3	23:11	Nov 10	14:41	Nov 18	00:35
	Nov 26	02:35	Dec 3	07:27	Dec 10	03:09	Dec 17	21:57
	Dec 25	17:48 A						

Year            New Moon            First Quarter            Full Moon            Last Quarter  
Delta T

1936 00h00m			Jan 1	15:14	Jan 8	18:13 t	Jan 16	19:41
	Jan 24	07:17	Jan 30	23:35	Feb 7	11:17	Feb 15	15:46
	Feb 22	18:41	Feb 29	09:27	Mar 8	05:12	Mar 16	08:35
	Mar 23	04:13	Mar 29	21:21	Apr 6	22:45	Apr 14	21:21
	Apr 21	12:33	Apr 28	11:14	May 6	15:01	May 14	06:12
	May 20	20:35	May 28	02:44	Jun 5	05:22	Jun 12	12:05
	Jun 19	05:15 T	Jun 26	19:22	Jul 4	17:35 p	Jul 11	16:28
	Jul 18	15:19	Jul 26	12:36	Aug 3	03:48	Aug 9	21:00
	Aug 17	03:21	Aug 25	05:50	Sep 1	12:38	Sep 8	03:15
	Sep 15	17:41	Sep 23	22:13	Sep 30	21:02	Oct 7	12:30
	Oct 15	10:20	Oct 23	12:53	Oct 30	05:58	Nov 6	01:29
	Nov 14	04:42	Nov 22	01:18	Nov 28	16:12	Dec 5	18:20
	Dec 13	23:24 A	Dec 21	11:29	Dec 28	03:59 n		

1937 00h00m							Jan 4	14:22
	Jan 12	16:46	Jan 19	20:01	Jan 26	17:14	Feb 3	12:05
	Feb 11	07:34	Feb 18	03:49	Feb 25	07:42	Mar 5	09:18
	Mar 12	19:31	Mar 19	11:45	Mar 26	23:11	Apr 4	03:53
	Apr 11	05:10	Apr 17	20:33	Apr 25	15:23	May 3	18:37
	May 10	13:18	May 17	06:49	May 25	07:37 n	Jun 2	05:23
	Jun 8	20:43 T	Jun 15	19:02	Jun 23	23:00	Jul 1	13:02
	Jul 8	04:13	Jul 15	09:36	Jul 23	12:46	Jul 30	18:47
	Aug 6	12:37	Aug 14	02:28	Aug 22	00:48	Aug 28	23:55
	Sep 4	22:53	Sep 12	20:56	Sep 20	11:33	Sep 27	05:44
	Oct 4	11:57	Oct 12	15:46	Oct 19	21:48	Oct 26	13:27
	Nov 3	04:15	Nov 11	09:33	Nov 18	08:10 p	Nov 25	00:05
	Dec 2	23:11 A	Dec 11	01:12	Dec 17	18:52	Dec 24	14:21

1938 00h00m	Jan 1	18:58	Jan 9	14:12	Jan 16	05:53	Jan 23	08:10
	Jan 31	13:35	Feb 8	00:32	Feb 14	17:14	Feb 22	04:24
	Mar 2	05:40	Mar 9	08:35	Mar 16	05:14	Mar 24	01:06
	Mar 31	18:52	Apr 7	15:10	Apr 14	18:20	Apr 22	20:14

Apr 30	05:28	May 6	21:24	May 14	08:38 t	May 22	12:36
May 29	14:00 T	Jun 5	04:32	Jun 12	23:47	Jun 21	01:52
Jun 27	21:10	Jul 4	13:46	Jul 12	15:05	Jul 20	12:19
Jul 27	03:53	Aug 3	01:59	Aug 11	05:57	Aug 18	20:31
Aug 25	11:17	Sep 1	17:26	Sep 9	20:09	Sep 17	03:12
Sep 23	20:33	Oct 1	11:43	Oct 9	09:38	Oct 16	09:25
Oct 23	08:41	Oct 31	07:44	Nov 7	22:24 t	Nov 14	16:21
Nov 22	00:05 P	Nov 30	04:00	Dec 7	10:22	Dec 14	01:18
Dec 21	18:07	Dec 29	22:54				

1939  
00h00m

				Jan 5	21:30	Jan 12	13:11
Jan 20	13:27	Jan 28	14:59	Feb 4	07:54	Feb 11	04:12
Feb 19	08:28	Feb 27	03:25	Mar 5	18:00	Mar 12	21:36
Mar 21	01:49	Mar 28	12:14	Apr 4	04:17	Apr 11	16:11
Apr 19	16:35 A	Apr 26	18:23	May 3	15:14 t	May 11	10:40
May 19	04:24	May 25	23:19	Jun 2	03:09	Jun 10	04:07
Jun 17	13:36	Jun 24	04:34	Jul 1	16:15	Jul 9	19:50
Jul 16	21:02	Jul 23	11:33	Jul 31	06:36	Aug 8	09:18
Aug 15	03:53	Aug 21	21:20	Aug 29	22:09	Sep 6	20:25
Sep 13	11:22	Sep 20	10:33	Sep 28	14:28	Oct 6	05:27
Oct 12	20:30 T	Oct 20	03:23	Oct 28	06:42 p	Nov 4	13:12
Nov 11	07:54	Nov 18	23:22	Nov 26	21:55	Dec 3	20:41
Dec 10	21:46	Dec 18	21:05	Dec 26	11:29		

1940  
00h00m

						Jan 2	04:57
Jan 9	13:53	Jan 17	18:21	Jan 24	23:23	Jan 31	14:48
Feb 8	07:46	Feb 16	12:55	Feb 23	09:56	Mar 1	02:36
Mar 9	02:23	Mar 17	03:24	Mar 23	19:33 n	Mar 30	16:20
Apr 7	20:18 A	Apr 15	13:44	Apr 22	04:36 n	Apr 29	07:49
May 7	12:07	May 14	20:49	May 21	13:31	May 29	00:41
Jun 6	01:05	Jun 13	01:58	Jun 19	23:00	Jun 27	18:13
Jul 5	11:27	Jul 12	06:35	Jul 19	09:54	Jul 27	11:30
Aug 3	20:08	Aug 10	12:01	Aug 17	23:02	Aug 26	03:33
Sep 2	04:15	Sep 8	19:32	Sep 16	14:41	Sep 24	17:47
Oct 1	12:41 T	Oct 8	06:18	Oct 16	08:16 n	Oct 24	06:04
Oct 30	22:03	Nov 6	21:08	Nov 15	02:24	Nov 22	16:36
Nov 29	08:42	Dec 6	16:00	Dec 14	19:39	Dec 22	01:45
Dec 28	20:57						

Year            New Moon            First Quarter            Full Moon            Last Quarter  
Delta T

1941  
00h00m

		Jan 5	13:39	Jan 13	11:05	Jan 20	10:02
Jan 27	11:04	Feb 4	11:41	Feb 12	00:27	Feb 18	18:08
Feb 26	03:03	Mar 6	07:42	Mar 13	11:48 p	Mar 20	02:52
Mar 27	20:15 A	Apr 5	00:12	Apr 11	21:15	Apr 18	13:04
Apr 26	13:24	May 4	12:48	May 11	05:15	May 18	01:18
May 26	05:19	Jun 2	21:56	Jun 9	12:33	Jun 16	15:45
Jun 24	19:22	Jul 2	04:24	Jul 8	20:16	Jul 16	08:07
Jul 24	07:38	Jul 31	09:20	Aug 7	05:37	Aug 15	01:40
Aug 22	18:33	Aug 29	14:04	Sep 5	17:35 p	Sep 13	19:32
Sep 21	04:37 T	Sep 27	20:09	Oct 5	08:32	Oct 13	12:54
Oct 20	14:19	Oct 27	05:04	Nov 4	02:00	Nov 12	04:55
Nov 19	00:03	Nov 25	17:52	Dec 3	20:52	Dec 11	18:48
Dec 18	10:19	Dec 25	10:42				

1942  
00h00m

				Jan 2	15:43	Jan 10	06:05
Jan 16	21:33	Jan 24	06:34	Feb 1	09:14	Feb 8	14:53
Feb 15	10:05	Feb 23	03:40	Mar 3	00:22 t	Mar 9	22:01

Mar 16	23:52	P	Mar 25	00:02	Apr 1	12:34	Apr 8	04:44	
Apr 15	14:35		Apr 23	18:11	Apr 30	22:01	May 7	12:13	
May 15	05:46		May 23	09:11	May 30	05:29	Jun 5	21:26	
Jun 13	21:02		Jun 21	20:44	Jun 28	12:09	Jul 5	08:58	
Jul 13	12:02		Jul 21	05:12	Jul 27	19:13	Aug 3	23:03	
Aug 12	02:26	P	Aug 19	11:30	Aug 26	03:44	t	Sep 2	15:41
Sep 10	15:50	P	Sep 17	16:56	Sep 24	14:32		Oct 2	10:27
Oct 10	04:04		Oct 16	22:58	Oct 24	04:04		Nov 1	06:19
Nov 8	15:17		Nov 15	06:57	Nov 22	20:24		Dec 1	01:38
Dec 8	01:59		Dec 14	17:47	Dec 22	15:04		Dec 30	18:38

1943  
00h00m

Jan 6	12:38		Jan 13	07:48	Jan 21	10:48	Jan 29	08:14	
Feb 4	23:30	T	Feb 12	00:40	Feb 20	05:46	p	Feb 27	18:23
Mar 6	10:36		Mar 13	19:31	Mar 21	22:10		Mar 29	01:52
Apr 4	21:55		Apr 12	15:05	Apr 20	11:13		Apr 27	07:52
May 4	09:45		May 12	09:53	May 19	21:14		May 26	13:34
Jun 2	22:34		Jun 11	02:35	Jun 18	05:15		Jun 24	20:08
Jul 2	12:44		Jul 10	16:29	Jul 17	12:22		Jul 24	04:39
Aug 1	04:06	A	Aug 9	03:36	Aug 15	19:34	p	Aug 22	16:05
Aug 30	19:58		Sep 7	12:32	Sep 14	03:39		Sep 21	07:06
Sep 29	11:28		Oct 6	20:09	Oct 13	13:21		Oct 21	01:42
Oct 29	01:58		Nov 5	03:22	Nov 12	01:25		Nov 19	22:43
Nov 27	15:22		Dec 4	11:04	Dec 11	16:24		Dec 19	20:03
Dec 27	03:49								

1944  
00h00m

			Jan 2	20:05	Jan 10	10:09	Jan 18	15:32	
Jan 25	15:24	T	Feb 1	07:08	Feb 9	05:29	n	Feb 17	07:42
Feb 24	01:59		Mar 1	20:40	Mar 10	00:28		Mar 17	20:05
Mar 24	11:37		Mar 31	12:34	Apr 8	17:23		Apr 16	04:59
Apr 22	20:45		Apr 30	06:06	May 8	07:30		May 15	11:13
May 22	06:14		May 30	00:06	Jun 6	18:59		Jun 13	15:57
Jun 20	17:01		Jun 28	17:27	Jul 6	04:28	n	Jul 12	20:40
Jul 20	05:44	A	Jul 28	09:24	Aug 4	12:41	n	Aug 11	02:53
Aug 18	20:25		Aug 26	23:40	Sep 2	20:22		Sep 9	12:04
Sep 17	12:38		Sep 25	12:08	Oct 2	04:22		Oct 9	01:12
Oct 17	05:34		Oct 24	22:48	Oct 31	13:35		Nov 7	18:28
Nov 15	22:29		Nov 23	07:52	Nov 30	00:51		Dec 7	14:56
Dec 15	14:34		Dec 22	15:54	Dec 29	14:38	n		

1945  
00h00m

							Jan 6	12:48	
Jan 14	05:06	A	Jan 20	23:48	Jan 28	06:41	Feb 5	09:57	
Feb 12	17:33		Feb 19	08:38	Feb 27	00:06	Mar 7	04:32	
Mar 14	03:52		Mar 20	19:12	Mar 28	17:44	Apr 5	19:20	
Apr 12	12:31		Apr 19	07:46	Apr 27	10:33	May 5	06:03	
May 11	20:23		May 18	22:11	May 27	01:50	Jun 3	13:16	
Jun 10	04:27		Jun 17	14:05	Jun 25	15:09	p	Jul 2	18:13
Jul 9	13:36	T	Jul 17	07:01	Jul 25	02:27		Jul 31	22:31
Aug 8	00:32		Aug 16	00:28	Aug 23	12:04		Aug 30	03:45
Sep 6	13:43		Sep 14	17:39	Sep 21	20:46		Sep 28	11:24
Oct 6	05:22		Oct 14	09:37	Oct 21	05:32		Oct 27	22:30
Nov 4	23:10		Nov 12	23:33	Nov 19	15:13		Nov 26	13:28
Dec 4	18:06		Dec 12	11:03	Dec 19	02:17	t	Dec 26	08:00

Year  
Delta T

New Moon      First Quarter      Full Moon      Last Quarter

1946  
00h00m

Jan 3	12:29	P	Jan 10	20:26	Jan 17	14:46	Jan 25	05:01
Feb 2	04:43		Feb 9	04:27	Feb 16	04:27	Feb 24	02:38
Mar 3	18:02		Mar 10	12:03	Mar 17	19:11	Mar 25	22:39

Apr 2	04:38	Apr 8	20:05	Apr 16	10:47	Apr 24	15:20
May 1	13:17	May 8	05:14	May 16	02:53	May 24	04:02
May 30	20:50 P	Jun 6	16:07	Jun 14	18:42 t	Jun 22	13:12
Jun 29	04:06 P	Jul 6	05:16	Jul 14	09:24	Jul 21	19:52
Jul 28	11:54	Aug 4	20:56	Aug 12	22:27	Aug 20	01:18
Aug 26	21:07	Sep 3	14:48	Sep 11	10:01	Sep 18	06:45
Sep 25	08:44	Oct 3	09:52	Oct 10	20:42	Oct 17	13:29
Oct 24	23:31	Nov 2	04:39	Nov 9	07:11	Nov 15	22:36
Nov 23	17:24 P	Dec 1	21:47	Dec 8	17:52 t	Dec 15	10:58
Dec 23	13:06	Dec 31	12:22				

1947  
00h00m

				Jan 7	04:46	Jan 14	02:57
Jan 22	08:34	Jan 30	00:06	Feb 5	15:50	Feb 12	21:58
Feb 21	02:01	Feb 28	09:11	Mar 7	03:14	Mar 14	18:28
Mar 22	16:35	Mar 29	16:15	Apr 5	15:28	Apr 13	14:23
Apr 21	04:20	Apr 27	22:18	May 5	04:53	May 13	08:08
May 20	13:44 T	May 27	04:36	Jun 3	19:27 p	Jun 11	22:58
Jun 18	21:26	Jun 25	12:25	Jul 3	10:39	Jul 11	10:55
Jul 18	04:15	Jul 24	22:53	Aug 2	01:51	Aug 9	20:23
Aug 16	11:12	Aug 23	12:39	Aug 31	16:35	Sep 8	03:58
Sep 14	19:28	Sep 22	05:41	Sep 30	06:42	Oct 7	10:30
Oct 14	06:10	Oct 22	01:10	Oct 29	20:08	Nov 5	17:05
Nov 12	20:01 A	Nov 20	21:44	Nov 28	08:46 n	Dec 5	00:56
Dec 12	12:54	Dec 20	17:44	Dec 27	20:27		

1948  
00h00m

						Jan 3	11:14
Jan 11	07:45	Jan 19	11:32	Jan 26	07:11	Feb 2	00:32
Feb 10	03:02	Feb 18	01:54	Feb 24	17:15	Mar 2	16:35
Mar 10	21:15	Mar 18	12:26	Mar 25	03:10	Apr 1	10:25
Apr 9	13:17	Apr 16	19:41	Apr 23	13:28 p	May 1	04:48
May 9	02:31 A	May 16	00:54	May 23	00:36	May 30	22:44
Jun 7	12:56	Jun 14	05:40	Jun 21	12:54	Jun 29	15:25
Jul 6	21:09	Jul 13	11:30	Jul 21	02:31	Jul 29	06:13
Aug 5	04:13	Aug 11	19:40	Aug 19	17:33	Aug 27	18:47
Sep 3	11:21	Sep 10	07:05	Sep 18	09:44	Sep 26	05:07
Oct 2	19:42	Oct 9	22:10	Oct 18	02:25 n	Oct 25	13:42
Nov 1	06:03 T	Nov 8	16:46	Nov 16	18:32	Nov 23	21:22
Nov 30	18:45	Dec 8	13:58	Dec 16	09:11	Dec 23	05:12
Dec 30	09:45						

1949  
00h00m

		Jan 7	11:52	Jan 14	22:00	Jan 21	14:08
Jan 29	02:42	Feb 6	08:04	Feb 13	09:08	Feb 20	00:43
Feb 27	20:55	Mar 8	00:41	Mar 14	19:02	Mar 21	13:10
Mar 29	15:11	Apr 6	13:00	Apr 13	04:08 t	Apr 20	03:27
Apr 28	08:03 P	May 5	21:31	May 12	12:50	May 19	19:23
May 27	22:24	Jun 4	03:26	Jun 10	21:44	Jun 18	12:31
Jun 26	10:02	Jul 3	08:08	Jul 10	07:41	Jul 18	06:03
Jul 25	19:33	Aug 1	12:58	Aug 8	19:33	Aug 16	23:00
Aug 24	03:59	Aug 30	19:18	Sep 7	10:00	Sep 15	14:30
Sep 22	12:21	Sep 29	04:19	Oct 7	02:54 t	Oct 15	04:06
Oct 21	21:23 P	Oct 28	17:05	Nov 5	21:11	Nov 13	15:48
Nov 20	07:30	Nov 27	10:02	Dec 5	15:15	Dec 13	01:49
Dec 19	18:57	Dec 27	06:32				

1950  
00h00m

				Jan 4	07:49	Jan 11	10:32
Jan 18	08:01	Jan 26	04:39	Feb 2	22:17	Feb 9	18:33
Feb 16	22:54	Feb 25	01:52	Mar 4	10:35	Mar 11	02:39
Mar 18	15:21 A	Mar 26	20:09	Apr 2	20:49 t	Apr 9	11:43
Apr 17	08:26	Apr 25	10:39	May 2	05:19	May 8	22:32



May 17	00:55	May 24	21:27	May 31	12:42	Jun 7	11:35
Jun 15	15:52	Jun 23	05:12	Jun 29	19:57	Jul 7	02:53
Jul 15	05:04	Jul 22	10:50	Jul 29	04:16	Aug 5	19:55
Aug 13	16:47	Aug 20	15:36	Aug 27	14:49	Sep 4	13:53
Sep 12	03:27 T	Sep 18	20:54	Sep 26	04:21 t	Oct 4	07:53
Oct 11	13:32	Oct 18	04:18	Oct 25	20:47	Nov 3	01:02
Nov 9	23:25	Nov 16	15:06	Nov 24	15:15	Dec 2	16:23
Dec 9	09:29	Dec 16	05:56	Dec 24	10:24		

Year Delta T	New Moon	First Quarter	Full Moon	Last Quarter
1951 00h00m				Jan 1 05:12
Jan 7	20:12	Jan 15 00:22	Jan 23 04:48	Jan 30 15:14
Feb 6	07:56	Feb 13 20:55	Feb 21 21:14	Feb 28 23:00
Mar 7	20:53 A	Mar 15 17:40	Mar 23 10:51 n	Mar 30 05:35
Apr 6	10:53	Apr 14 12:56	Apr 21 21:31	Apr 28 12:18
May 6	01:37	May 14 05:32	May 21 05:45	May 27 20:17
Jun 4	16:40	Jun 12 18:52	Jun 19 12:36	Jun 26 06:21
Jul 4	07:47	Jul 12 04:56	Jul 18 19:17	Jul 25 18:59
Aug 2	22:38	Aug 10 12:22	Aug 17 02:58 n	Aug 24 10:20
Sep 1	12:48 A	Sep 8 18:16	Sep 15 12:37 n	Sep 23 04:14
Oct 1	01:55	Oct 8 00:00	Oct 15 00:50	Oct 22 23:56
Oct 30	13:53	Nov 6 06:59	Nov 13 15:51	Nov 21 20:02
Nov 29	00:59	Dec 5 16:20	Dec 13 09:30	Dec 21 14:38
Dec 28	11:43			
1952 00h00m		Jan 4 04:42	Jan 12 04:55	Jan 20 06:09
Jan 26	22:27	Feb 2 20:01	Feb 11 00:28 p	Feb 18 18:01
Feb 25	09:17 T	Mar 3 13:43	Mar 11 18:15	Mar 19 02:39
Mar 25	20:14	Apr 2 08:49	Apr 10 08:55	Apr 17 09:07
Apr 24	07:29	May 2 03:58	May 9 20:17	May 16 14:39
May 23	19:29	May 31 21:46	Jun 8 05:08	Jun 14 20:28
Jun 22	08:45	Jun 30 13:11	Jul 7 12:34	Jul 14 03:43
Jul 21	23:31	Jul 30 01:51	Aug 5 19:40 p	Aug 12 13:28
Aug 20	15:20 A	Aug 28 12:03	Sep 4 03:19	Sep 11 02:36
Sep 19	07:21	Sep 26 20:31	Oct 3 12:15	Oct 10 19:33
Oct 18	22:41	Oct 26 04:04	Nov 1 23:09	Nov 9 15:43
Nov 17	12:55	Nov 24 11:34	Dec 1 12:40	Dec 9 13:22
Dec 17	02:01	Dec 23 19:52	Dec 31 05:05	
1953 00h01m				Jan 8 10:09
Jan 15	14:08	Jan 22 05:43	Jan 29 23:44 t	Feb 7 04:10
Feb 14	01:10 P	Feb 20 17:45	Feb 28 18:58	Mar 8 18:27
Mar 15	11:06	Mar 22 08:11	Mar 30 12:56	Apr 7 04:58
Apr 13	20:10	Apr 21 00:40	Apr 29 04:22	May 6 12:21
May 13	05:07	May 20 18:19	May 28 17:04	Jun 4 17:36
Jun 11	14:56	Jun 19 12:00	Jun 27 03:30	Jul 3 22:04
Jul 11	02:29 P	Jul 19 04:47	Jul 26 12:22 t	Aug 2 03:17
Aug 9	16:10 P	Aug 17 20:08	Aug 24 20:21	Aug 31 10:47
Sep 8	07:47	Sep 16 09:49	Sep 23 04:16	Sep 29 21:51
Oct 8	00:40	Oct 15 21:44	Oct 22 12:55	Oct 29 13:09
Nov 6	17:57	Nov 14 07:51	Nov 20 23:11	Nov 28 08:15
Dec 6	10:47	Dec 13 16:30	Dec 20 11:43	Dec 28 05:43
1954 00h01m	Jan 5 02:20 A	Jan 12 00:22	Jan 19 02:36 t	Jan 27 03:29
Feb 3	15:55	Feb 10 08:29	Feb 17 19:17	Feb 25 23:31
Mar 5	03:12	Mar 11 17:52	Mar 19 12:42	Mar 27 16:15
Apr 3	12:26	Apr 10 05:05	Apr 18 05:49	Apr 26 04:58

May 2	20:23	May 9	18:17	May 17	21:47	May 25	13:50
Jun 1	04:04	Jun 8	09:13	Jun 16	12:06	Jun 23	19:46
Jun 30	12:26 T	Jul 8	01:33	Jul 16	00:30 p	Jul 23	00:14
Jul 29	22:20	Aug 6	18:51	Aug 14	11:04	Aug 21	04:51
Aug 28	10:20	Sep 5	12:29	Sep 12	20:20	Sep 19	11:11
Sep 27	00:50	Oct 5	05:30	Oct 12	05:10	Oct 18	20:31
Oct 26	17:46	Nov 3	20:54	Nov 10	14:29	Nov 17	09:33
Nov 25	12:30	Dec 3	09:55	Dec 10	00:57	Dec 17	02:21
Dec 25	07:33 A						

1955  
00h01m

Jan 1	20:28	Jan 8	12:44 n	Jan 15	22:14		
Jan 24	01:06	Jan 31	05:05	Feb 7	01:42	Feb 14	19:41
Feb 22	15:55	Mar 1	12:40	Mar 8	15:40	Mar 16	16:37
Mar 24	03:43	Mar 30	20:09	Apr 7	06:34	Apr 15	11:01
Apr 22	13:06	Apr 29	04:22	May 6	22:13	May 15	01:43
May 21	20:59	May 28	14:01	Jun 5	14:08 n	Jun 13	12:37
Jun 20	04:12 T	Jun 27	01:43	Jul 5	05:28	Jul 12	20:30
Jul 19	11:34	Jul 26	15:59	Aug 3	19:30	Aug 11	02:33
Aug 17	19:58	Aug 25	08:51	Sep 2	08:00	Sep 9	08:00
Sep 16	06:18	Sep 24	03:39	Oct 1	19:18	Oct 8	14:05
Oct 15	19:31	Oct 23	23:03	Oct 31	06:05	Nov 6	21:57
Nov 14	12:01	Nov 22	17:28	Nov 29	16:50 p	Dec 6	08:37
Dec 14	07:07 A	Dec 22	09:39	Dec 29	03:44		

Year  
Delta T

New Moon      First Quarter      Full Moon      Last Quarter

1956  
00h01m

						Jan 4	22:42
Jan 13	03:01	Jan 20	22:58	Jan 27	14:40	Feb 3	16:09
Feb 11	21:38	Feb 19	09:20	Feb 26	01:41	Mar 4	11:54
Mar 12	13:37	Mar 19	17:13	Mar 26	13:10	Apr 3	08:06
Apr 11	02:39	Apr 17	23:28	Apr 25	01:40	May 3	02:56
May 10	13:05	May 17	05:15	May 24	15:25 p	Jun 1	19:14
Jun 8	21:29 T	Jun 15	11:56	Jun 23	06:14	Jul 1	08:42
Jul 8	04:37	Jul 14	20:46	Jul 22	21:30	Jul 30	19:32
Aug 6	11:25	Aug 13	08:44	Aug 21	12:39	Aug 29	04:14
Sep 4	18:57	Sep 12	00:11	Sep 20	03:20	Sep 27	11:26
Oct 4	04:24	Oct 11	18:42	Oct 19	17:25	Oct 26	18:03
Nov 2	16:43	Nov 10	15:08	Nov 18	06:45 t	Nov 25	01:13
Dec 2	08:12 P	Dec 10	11:51	Dec 17	19:06	Dec 24	10:10

1957  
00h01m

Jan 1	02:13	Jan 9	07:06	Jan 16	06:21	Jan 22	21:48
Jan 30	21:24	Feb 7	23:23	Feb 14	16:37	Feb 21	12:18
Mar 1	16:12	Mar 9	11:49	Mar 16	02:21	Mar 23	05:04
Mar 31	09:19	Apr 7	20:32	Apr 14	12:09	Apr 21	23:00
Apr 29	23:54 A	May 7	02:29	May 13	22:34 t	May 21	17:04
May 29	11:39	Jun 5	07:09	Jun 12	10:02	Jun 20	10:24
Jun 27	20:54	Jul 4	12:09	Jul 11	22:50	Jul 20	02:19
Jul 27	04:28	Aug 2	18:55	Aug 10	13:09	Aug 18	16:18
Aug 25	11:33	Sep 1	04:35	Sep 9	04:56	Sep 17	04:02
Sep 23	19:18	Sep 30	17:48	Oct 8	21:43	Oct 16	13:44
Oct 23	04:43 P	Oct 30	10:47	Nov 7	14:32 t	Nov 14	21:59
Nov 21	16:19	Nov 29	06:57	Dec 7	06:16	Dec 14	05:45
Dec 21	06:12	Dec 29	04:52				

1958  
00h01m

				Jan 5	20:09	Jan 12	14:01
Jan 19	22:08	Jan 28	02:16	Feb 4	08:06	Feb 10	23:34
Feb 18	15:39	Feb 26	20:51	Mar 5	18:28	Mar 12	10:48
Mar 20	09:50	Mar 28	11:18	Apr 4	03:44 n	Apr 10	23:50

Apr 19	03:24	A	Apr 26	21:34	May 3	12:22	p	May 10	14:38
May 18	19:00		May 26	04:36	Jun 1	20:54		Jun 9	06:59
Jun 17	07:59		Jun 24	09:44	Jul 1	06:03		Jul 9	00:21
Jul 16	18:32		Jul 23	14:19	Jul 30	16:45		Aug 7	17:50
Aug 15	03:32		Aug 21	19:45	Aug 29	05:52		Sep 6	10:24
Sep 13	12:01		Sep 20	03:18	Sep 27	21:44		Oct 6	01:20
Oct 12	20:51	T	Oct 19	14:07	Oct 27	15:42	n	Nov 4	14:19
Nov 11	06:33		Nov 18	04:59	Nov 26	10:17		Dec 4	01:24
Dec 10	17:23		Dec 17	23:52	Dec 26	03:55			

1959  
00h01m

								Jan 2	10:51
Jan 9	05:35		Jan 16	21:26	Jan 24	19:34		Jan 31	19:07
Feb 7	19:23		Feb 15	19:19	Feb 23	08:55		Mar 2	02:55
Mar 9	10:53		Mar 17	15:10	Mar 24	20:03	p	Mar 31	11:07
Apr 8	03:30	A	Apr 16	07:32	Apr 23	05:13		Apr 29	20:39
May 7	20:12		May 15	20:08	May 22	12:55		May 29	08:14
Jun 6	11:53		Jun 14	05:22	Jun 20	19:59		Jun 27	22:12
Jul 6	02:00		Jul 13	12:01	Jul 20	03:32		Jul 27	14:21
Aug 4	14:33		Aug 11	17:10	Aug 18	12:49		Aug 26	08:03
Sep 3	01:54		Sep 9	22:08	Sep 17	00:51	n	Sep 25	02:23
Oct 2	12:30	T	Oct 9	04:23	Oct 16	15:58		Oct 24	20:23
Oct 31	22:40		Nov 7	13:24	Nov 15	09:42		Nov 23	13:04
Nov 30	08:45		Dec 7	02:11	Dec 15	04:49		Dec 23	03:28
Dec 29	19:09								

1960  
00h01m

			Jan 5	18:51	Jan 13	23:51		Jan 21	15:00
Jan 28	06:16		Feb 4	14:24	Feb 12	17:24		Feb 19	23:47
Feb 26	18:25		Mar 5	11:04	Mar 13	08:27	t	Mar 20	06:40
Mar 27	07:39	P	Apr 4	07:04	Apr 11	20:28		Apr 18	12:57
Apr 25	21:45		May 4	01:01	May 11	05:43		May 17	19:54
May 25	12:27		Jun 2	16:01	Jun 9	13:02		Jun 16	04:35
Jun 24	03:27		Jul 2	03:48	Jul 8	19:37		Jul 15	15:42
Jul 23	18:30		Jul 31	12:38	Aug 7	02:41		Aug 14	05:37
Aug 22	09:14		Aug 29	19:22	Sep 5	11:18	t	Sep 12	22:20
Sep 20	23:11	P	Sep 28	01:13	Oct 4	22:15		Oct 12	17:27
Oct 20	12:01		Oct 27	07:34	Nov 3	11:57		Nov 11	13:49
Nov 18	23:45		Nov 25	15:42	Dec 3	04:24		Dec 11	09:39
Dec 18	10:46		Dec 25	02:29					

Year            New Moon            First Quarter            Full Moon            Last Quarter  
Delta T

1961  
00h01m

					Jan 1	23:06		Jan 10	03:02
Jan 16	21:30		Jan 23	16:13	Jan 31	18:46		Feb 8	16:49
Feb 15	08:11	T	Feb 22	08:34	Mar 2	13:35	p	Mar 10	02:56
Mar 16	18:52		Mar 24	02:48	Apr 1	05:48		Apr 8	10:15
Apr 15	05:39		Apr 22	21:50	Apr 30	18:42		May 7	15:57
May 14	16:56		May 22	16:19	May 30	04:38		Jun 5	21:19
Jun 13	05:17		Jun 21	09:01	Jun 28	12:39		Jul 5	03:33
Jul 12	19:11		Jul 20	23:13	Jul 27	19:51		Aug 3	11:48
Aug 11	10:36	A	Aug 19	10:51	Aug 26	03:13	p	Sep 1	23:06
Sep 10	02:49		Sep 17	20:23	Sep 24	11:33		Oct 1	14:10
Oct 9	18:51		Oct 17	04:34	Oct 23	21:29		Oct 31	08:59
Nov 8	09:57		Nov 15	12:12	Nov 22	09:43		Nov 30	06:18
Dec 7	23:51		Dec 14	20:06	Dec 22	00:41		Dec 30	03:57

1962  
00h01m

Jan 6	12:35		Jan 13	05:02	Jan 20	18:16		Jan 28	23:37
Feb 5	00:10	T	Feb 11	15:43	Feb 19	13:18	n	Feb 27	15:50
Mar 6	10:31		Mar 13	04:39	Mar 21	07:56		Mar 29	04:11

Apr 4	19:46	Apr 11	19:50	Apr 20	00:34	Apr 27	12:59
May 4	04:26	May 11	12:43	May 19	14:33	May 26	19:06
Jun 2	13:28	Jun 10	06:20	Jun 18	02:04	Jun 24	23:44
Jul 1	23:53	Jul 9	23:39	Jul 17	11:42 n	Jul 24	04:19
Jul 31	12:24 A	Aug 8	15:55	Aug 15	20:10 n	Aug 22	10:28
Aug 30	03:09	Sep 7	06:45	Sep 14	04:12	Sep 20	19:36
Sep 28	19:39	Oct 6	19:54	Oct 13	12:33	Oct 20	08:47
Oct 28	13:04	Nov 5	07:14	Nov 11	22:03	Nov 19	02:09
Nov 27	06:29	Dec 4	16:48	Dec 11	09:27	Dec 18	22:42
Dec 26	22:59						

1963  
00h01m

Jan 3	01:02	Jan 9	23:08 n	Jan 17	20:35		
Jan 25	13:42 A	Feb 1	08:50	Feb 8	14:51	Feb 16	17:40
Feb 24	02:06	Mar 2	17:17	Mar 10	07:48	Mar 18	12:09
Mar 25	12:10	Apr 1	03:14	Apr 9	00:56	Apr 17	02:53
Apr 23	20:29	Apr 30	15:06	May 8	17:23	May 16	13:36
May 23	04:00	May 30	04:53	Jun 7	08:30	Jun 14	20:53
Jun 21	11:46	Jun 28	20:22	Jul 6	21:56 p	Jul 14	01:57
Jul 20	20:43 T	Jul 28	13:12	Aug 5	09:32	Aug 12	06:21
Aug 19	07:35	Aug 27	06:54	Sep 3	19:35	Sep 10	11:43
Sep 17	20:51	Sep 26	00:39	Oct 3	04:45	Oct 9	19:28
Oct 17	12:43	Oct 25	17:20	Nov 1	13:56	Nov 8	06:38
Nov 16	06:51	Nov 24	07:56	Nov 30	23:55	Dec 7	21:35
Dec 16	02:07	Dec 23	19:54	Dec 30	11:04 t		

1964  
00h01m

				Jan 6	15:59		
Jan 14	20:44 P	Jan 22	05:28	Jan 28	23:23	Feb 5	12:44
Feb 13	13:02	Feb 20	13:24	Feb 27	12:39	Mar 6	10:02
Mar 14	02:15	Mar 20	20:39	Mar 28	02:48	Apr 5	05:47
Apr 12	12:38	Apr 19	04:09	Apr 26	17:49	May 4	22:21
May 11	21:02	May 18	12:42	May 26	09:29	Jun 3	11:08
Jun 10	04:23 P	Jun 16	23:01	Jun 25	01:08 t	Jul 2	20:31
Jul 9	11:31 P	Jul 16	11:47	Jul 24	15:59	Aug 1	03:30
Aug 7	19:17	Aug 15	03:19	Aug 23	05:26	Aug 30	09:16
Sep 6	04:34	Sep 13	21:23	Sep 21	17:32	Sep 28	15:02
Oct 5	16:19	Oct 13	16:56	Oct 21	04:46	Oct 27	22:00
Nov 4	07:16	Nov 12	12:19	Nov 19	15:44	Nov 26	07:12
Dec 4	01:19 P	Dec 12	06:01	Dec 19	02:41 t	Dec 25	19:28

1965  
00h01m

Jan 2	21:07	Jan 10	20:59	Jan 17	13:37	Jan 24	11:08
Feb 1	16:36	Feb 9	08:52	Feb 16	00:26	Feb 23	05:41
Mar 3	09:57	Mar 10	17:52	Mar 17	11:24	Mar 25	01:38
Apr 2	00:22	Apr 9	00:40	Apr 15	23:02	Apr 23	21:08
May 1	11:57	May 8	06:20	May 15	11:52	May 23	14:42
May 30	21:13 T	Jun 6	12:12	Jun 14	02:00 p	Jun 22	05:38
Jun 29	04:53	Jul 5	19:37	Jul 13	17:02	Jul 21	17:55
Jul 28	11:45	Aug 4	05:47	Aug 12	08:23	Aug 20	03:51
Aug 26	18:51	Sep 2	19:27	Sep 10	23:33	Sep 18	11:59
Sep 25	03:17	Oct 2	12:36	Oct 10	14:15	Oct 17	19:00
Oct 24	14:11	Nov 1	08:25	Nov 9	04:16	Nov 16	01:55
Nov 23	04:10 A	Dec 1	05:25	Dec 8	17:22 n	Dec 15	09:53
Dec 22	21:04	Dec 31	01:47				

Year  
Delta T

New Moon	First Quarter	Full Moon	Last Quarter
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1966  
00h01m

		Jan 7	05:16	Jan 13	20:01		
Jan 21	15:47	Jan 29	19:49	Feb 5	15:58	Feb 12	08:54
Feb 20	10:50	Feb 28	10:15	Mar 7	01:46	Mar 14	00:20

Mar 22	04:47	Mar 29	20:43	Apr 5	11:13	Apr 12	17:29
Apr 20	20:36	Apr 28	03:49	May 4	21:00 n	May 12	11:20
May 20	09:43 A	May 27	08:50	Jun 3	07:40	Jun 11	05:00
Jun 18	20:09	Jun 25	13:22	Jul 2	19:36	Jul 10	21:44
Jul 18	04:30	Jul 24	18:59	Aug 1	09:05	Aug 9	12:57
Aug 16	11:47	Aug 23	03:01	Aug 31	00:14	Sep 8	02:07
Sep 14	19:13	Sep 21	14:24	Sep 29	16:48	Oct 7	13:08
Oct 14	03:51	Oct 21	05:34	Oct 29	10:01 n	Nov 5	22:18
Nov 12	14:27 T	Nov 20	00:20	Nov 28	02:41	Dec 5	06:22
Dec 12	03:14	Dec 19	21:42	Dec 27	17:44		

1967  
00h01m

						Jan 3	14:20
Jan 10	18:07	Jan 18	19:42	Jan 26	06:42	Feb 1	23:04
Feb 9	10:45	Feb 17	15:57	Feb 24	17:44	Mar 3	09:11
Mar 11	04:31	Mar 19	08:31	Mar 26	03:21	Apr 1	20:59
Apr 9	22:21	Apr 17	20:47	Apr 24	12:03 t	May 1	10:33
May 9	14:56 P	May 17	05:16	May 23	20:21	May 31	01:53
Jun 8	05:14	Jun 15	11:11	Jun 22	04:56	Jun 29	18:41
Jul 7	17:00	Jul 14	15:53	Jul 21	14:38	Jul 29	12:15
Aug 6	02:48	Aug 12	20:45	Aug 20	02:26	Aug 28	05:35
Sep 4	11:36	Sep 11	03:07	Sep 18	16:59	Sep 26	21:44
Oct 3	20:23	Oct 10	12:11	Oct 18	10:11 t	Oct 26	12:04
Nov 2	05:48 T	Nov 9	01:00	Nov 17	04:54	Nov 25	00:23
Dec 1	16:10	Dec 8	17:57	Dec 16	23:22	Dec 24	10:48
Dec 31	03:39						

1968  
00h01m

		Jan 7	14:22	Jan 15	16:12	Jan 22	19:38
Jan 29	16:31	Feb 6	12:19	Feb 14	06:44	Feb 21	03:28
Feb 28	06:57	Mar 7	09:20	Mar 14	18:53	Mar 21	11:08
Mar 28	22:49 P	Apr 6	03:27	Apr 13	04:52 t	Apr 19	19:36
Apr 27	15:22	May 5	17:54	May 12	13:05	May 19	05:45
May 27	07:31	Jun 4	04:46	Jun 10	20:13	Jun 17	18:14
Jun 25	22:25	Jul 3	12:42	Jul 10	03:17	Jul 17	09:12
Jul 25	11:49	Aug 1	18:35	Aug 8	11:32	Aug 16	02:13
Aug 23	23:56	Aug 30	23:35	Sep 6	22:06	Sep 14	20:31
Sep 22	11:07 T	Sep 29	05:08	Oct 6	11:46 t	Oct 14	15:06
Oct 21	21:43	Oct 28	12:40	Nov 5	04:25	Nov 13	08:54
Nov 20	08:01	Nov 26	23:30	Dec 4	23:08	Dec 13	00:50
Dec 19	18:19	Dec 26	14:14				

1969  
00h01m

				Jan 3	18:28	Jan 11	14:01
Jan 18	05:00	Jan 25	08:22	Feb 2	12:56	Feb 10	00:08
Feb 16	16:27	Feb 24	04:29	Mar 4	05:18	Mar 11	07:45
Mar 18	04:54 A	Mar 26	00:48	Apr 2	18:47 n	Apr 9	13:59
Apr 16	18:18	Apr 24	19:45	May 2	05:15	May 8	20:12
May 16	08:28	May 24	12:16	May 31	13:19	Jun 7	03:40
Jun 14	23:10	Jun 23	01:45	Jun 29	20:04	Jul 6	13:17
Jul 14	14:11	Jul 22	12:10	Jul 29	02:45	Aug 5	01:39
Aug 13	05:16	Aug 20	20:03	Aug 27	10:32 n	Sep 3	16:58
Sep 11	19:54 A	Sep 19	02:24	Sep 25	20:20 n	Oct 3	11:05
Oct 11	09:37	Oct 18	08:31	Oct 25	08:43	Nov 2	07:14
Nov 9	22:09	Nov 16	15:44	Nov 23	23:52	Dec 2	03:51
Dec 9	09:40	Dec 16	01:09	Dec 23	17:34	Dec 31	22:52

1970  
00h01m

Jan 7	20:35	Jan 14	13:18	Jan 22	12:55	Jan 30	14:38
Feb 6	07:13	Feb 13	04:10	Feb 21	08:19 p	Mar 1	02:33
Mar 7	17:44 T	Mar 14	21:16	Mar 23	01:53	Mar 30	11:04
Apr 6	04:11	Apr 13	15:44	Apr 21	16:23	Apr 28	17:18
May 5	14:53	May 13	10:27	May 21	03:39	May 27	22:32

Jun 4	02:23	Jun 12	04:07	Jun 19	12:29	Jun 26	04:02
Jul 3	15:19	Jul 11	19:43	Jul 18	20:00	Jul 25	11:01
Aug 2	05:58	Aug 10	08:50	Aug 17	03:16 p	Aug 23	20:36
Aug 31	22:01 A	Sep 8	19:38	Sep 15	11:09	Sep 22	09:43
Sep 30	14:31	Oct 8	04:42	Oct 14	20:20	Oct 22	02:48
Oct 30	06:27	Nov 6	12:46	Nov 13	07:27	Nov 20	23:13
Nov 28	21:13	Dec 5	20:35	Dec 12	21:02	Dec 20	21:08
Dec 28	10:41						

Year Delta T	New Moon	First Quarter	Full Moon	Last Quarter
1971 00h01m		Jan 4 04:55	Jan 11 13:19	Jan 19 18:08
	Jan 26 22:54	Feb 2 14:30	Feb 10 07:40 t	Feb 18 12:13
	Feb 25 09:48 P	Mar 4 02:01	Mar 12 02:32	Mar 20 02:29
	Mar 26 19:23	Apr 2 15:45	Apr 10 20:10	Apr 18 12:57
	Apr 25 04:02	May 2 07:33	May 10 11:24	May 17 20:14
	May 24 12:32	Jun 1 00:40	Jun 9 00:04	Jun 16 01:24
	Jun 22 21:58	Jun 30 18:10	Jul 8 10:37	Jul 15 05:48
	Jul 22 09:15 P	Jul 30 11:07	Aug 6 19:43 t	Aug 13 10:56
	Aug 20 22:54 P	Aug 29 02:57	Sep 5 04:03	Sep 11 18:24
	Sep 19 14:43	Sep 27 17:18	Oct 4 12:20	Oct 11 05:30
	Oct 19 07:59	Oct 27 05:54	Nov 2 21:20	Nov 9 20:52
	Nov 18 01:46	Nov 25 16:37	Dec 2 07:48	Dec 9 16:02
	Dec 17 19:02	Dec 25 01:35	Dec 31 20:19	
1972 00h01m				Jan 8 13:30
	Jan 16 10:52 A	Jan 23 09:28	Jan 30 10:57 t	Feb 7 11:12
	Feb 15 00:28	Feb 21 17:20	Feb 29 03:11	Mar 8 07:06
	Mar 15 11:34	Mar 22 02:11	Mar 29 20:04	Apr 6 23:45
	Apr 13 20:31	Apr 20 12:44	Apr 28 12:43	May 6 12:26
	May 13 04:08	May 20 01:15	May 28 04:27	Jun 4 21:21
	Jun 11 11:30	Jun 18 15:39	Jun 26 18:46	Jul 4 03:25
	Jul 10 19:39 T	Jul 18 07:45	Jul 26 07:24 p	Aug 2 08:03
	Aug 9 05:26	Aug 17 01:09	Aug 24 18:22	Aug 31 12:49
	Sep 7 17:28	Sep 15 19:13	Sep 23 04:08	Sep 29 19:17
	Oct 7 08:08	Oct 15 12:55	Oct 22 13:26	Oct 29 04:42
	Nov 6 01:21	Nov 14 05:00	Nov 20 23:07	Nov 27 17:45
	Dec 5 20:24	Dec 13 18:35	Dec 20 09:45	Dec 27 10:27
1973 00h01m	Jan 4 15:42 A	Jan 12 05:26	Jan 18 21:27 n	Jan 26 06:05
	Feb 3 09:22	Feb 10 14:04	Feb 17 10:06	Feb 25 03:11
	Mar 5 00:08	Mar 11 21:25	Mar 18 23:32	Mar 26 23:47
	Apr 3 11:45	Apr 10 04:27	Apr 17 13:49	Apr 25 17:59
	May 2 20:55	May 9 12:06	May 17 04:57	May 25 08:40
	Jun 1 04:34	Jun 7 21:10	Jun 15 20:34 n	Jun 23 19:45
	Jun 30 11:39 T	Jul 7 08:25	Jul 15 11:56 n	Jul 23 03:58
	Jul 29 18:59	Aug 5 22:26	Aug 14 02:17	Aug 21 10:22
	Aug 28 03:25	Sep 4 15:21	Sep 12 15:17	Sep 19 16:11
	Sep 26 13:53	Oct 4 10:31	Oct 12 03:10	Oct 18 22:34
	Oct 26 03:16	Nov 3 06:28	Nov 10 14:28	Nov 17 06:36
	Nov 24 19:55	Dec 3 01:28	Dec 10 01:35 p	Dec 16 17:14
	Dec 24 15:08 A			
1974 00h01m		Jan 1 18:06	Jan 8 12:36	Jan 15 07:05
	Jan 23 11:02	Jan 31 07:39	Feb 6 23:24	Feb 14 00:05
	Feb 22 05:34	Mar 1 18:02	Mar 8 10:02	Mar 15 19:16
	Mar 23 21:25	Mar 31 01:43	Apr 6 20:59	Apr 14 14:57
	Apr 22 10:17	Apr 29 07:39	May 6 08:53	May 14 09:28

May 21	20:34	May 28	13:03	Jun 4	22:09 p	Jun 13	01:45
Jun 20	04:55 T	Jun 26	19:19	Jul 4	12:40	Jul 12	15:28
Jul 19	12:06	Jul 26	03:50	Aug 3	03:57	Aug 11	02:46
Aug 17	19:01	Aug 24	15:37	Sep 1	19:25	Sep 9	12:01
Sep 16	02:44	Sep 23	07:06	Oct 1	10:38	Oct 8	19:46
Oct 15	12:24	Oct 23	01:51	Oct 31	01:20	Nov 7	02:48
Nov 14	00:53	Nov 21	22:39	Nov 29	15:11 t	Dec 6	10:11
Dec 13	16:25 P	Dec 21	19:44	Dec 29	03:51		

1975  
00h01m

						Jan 4	19:05
Jan 12	10:21	Jan 20	15:15	Jan 27	15:10	Feb 3	06:24
Feb 11	05:18	Feb 19	07:39	Feb 26	01:15	Mar 4	20:20
Mar 12	23:48	Mar 20	20:04	Mar 27	10:36	Apr 3	12:24
Apr 11	16:39	Apr 19	04:40	Apr 25	19:54	May 3	05:43
May 11	07:05 P	May 18	10:28	May 25	05:49 t	Jun 1	23:22
Jun 9	18:48	Jun 16	14:57	Jun 23	16:53	Jul 1	16:38
Jul 9	04:09	Jul 15	19:46	Jul 23	05:27	Jul 31	08:49
Aug 7	11:56	Aug 14	02:23	Aug 21	19:47	Aug 29	23:20
Sep 5	19:18	Sep 12	11:58	Sep 20	11:50	Sep 28	11:46
Oct 5	03:23	Oct 12	01:14	Oct 20	05:06	Oct 27	22:07
Nov 3	13:04 P	Nov 10	18:20	Nov 18	22:29 t	Nov 26	06:52
Dec 3	00:50	Dec 10	14:39	Dec 18	14:40	Dec 25	14:52

Year            New Moon            First Quarter            Full Moon            Last Quarter  
Delta T

1976  
00h01m

Jan 1	14:41	Jan 9	12:40	Jan 17	04:48	Jan 23	23:05
Jan 31	06:21	Feb 8	10:05	Feb 15	16:44	Feb 22	08:16
Feb 29	23:25	Mar 9	04:38	Mar 16	02:53	Mar 22	18:55
Mar 30	17:08	Apr 7	19:01	Apr 14	11:48	Apr 21	07:14
Apr 29	10:20 A	May 7	05:16	May 13	20:03 p	May 20	21:22
May 29	01:47	Jun 5	12:18	Jun 12	04:13	Jun 19	13:16
Jun 27	14:49	Jul 4	17:28	Jul 11	13:07	Jul 19	06:30
Jul 27	01:38	Aug 2	22:06	Aug 9	23:42	Aug 18	00:13
Aug 25	11:00	Sep 1	03:36	Sep 8	12:51	Sep 16	17:20
Sep 23	19:54	Sep 30	11:13	Oct 8	04:56	Oct 16	08:59
Oct 23	05:09 T	Oct 29	22:05	Nov 6	23:16 n	Nov 14	22:39
Nov 21	15:10	Nov 28	12:59	Dec 6	18:15	Dec 14	10:15
Dec 21	02:08	Dec 28	07:48				

1977  
00h01m

				Jan 5	12:12	Jan 12	19:55
Jan 19	14:12	Jan 27	05:11	Feb 4	03:58	Feb 11	04:08
Feb 18	03:39	Feb 26	02:50	Mar 5	17:15	Mar 12	11:36
Mar 19	18:35	Mar 27	22:27	Apr 4	04:10 p	Apr 10	19:16
Apr 18	10:37 A	Apr 26	14:43	May 3	13:04	May 10	04:09
May 18	02:53	May 26	03:20	Jun 1	20:30	Jun 8	15:07
Jun 16	18:23	Jun 24	12:44	Jul 1	03:23	Jul 8	04:39
Jul 16	08:36	Jul 23	19:38	Jul 30	10:51	Aug 6	20:39
Aug 14	21:30	Aug 22	01:04	Aug 28	20:08	Sep 5	14:32
Sep 13	09:21	Sep 20	06:18	Sep 27	08:16 n	Oct 5	09:21
Oct 12	20:29 T	Oct 19	12:46	Oct 26	23:35	Nov 4	03:59
Nov 11	07:08	Nov 17	21:52	Nov 25	17:31	Dec 3	21:17
Dec 10	17:32	Dec 17	10:36	Dec 25	12:49		

1978  
00h01m

						Jan 2	12:08
Jan 9	04:00	Jan 16	03:02	Jan 24	07:56	Jan 31	23:51
Feb 7	14:56	Feb 14	22:10	Feb 23	01:28	Mar 2	08:35
Mar 9	02:39	Mar 16	18:21	Mar 24	16:22 t	Mar 31	15:12
Apr 7	15:18 P	Apr 15	13:57	Apr 23	04:13	Apr 29	21:03

May 7	04:49	May 15	07:41	May 22	13:18	May 29	03:31
Jun 5	19:03	Jun 13	22:45	Jun 20	20:31	Jun 27	11:44
Jul 5	09:51	Jul 13	10:49	Jul 20	03:05	Jul 26	22:31
Aug 4	01:00	Aug 11	20:06	Aug 18	10:13	Aug 25	12:17
Sep 2	16:07	Sep 10	03:20	Sep 16	19:00 t	Sep 24	05:07
Oct 2	06:39 P	Oct 9	09:37	Oct 16	06:08	Oct 24	00:35
Oct 31	20:05	Nov 7	16:18	Nov 14	19:59	Nov 22	21:25
Nov 30	08:18	Dec 7	00:34	Dec 14	12:30	Dec 22	17:42
Dec 29	19:35						

1979  
00h01m

Jan 5	11:15	Jan 13	07:08	Jan 21	11:24		
Jan 28	06:20	Feb 4	00:36	Feb 12	02:39	Feb 20	01:17
Feb 26	16:46 T	Mar 5	16:23	Mar 13	21:15 p	Mar 21	11:22
Mar 28	03:01	Apr 4	09:58	Apr 12	13:17	Apr 19	18:30
Apr 26	13:16	May 4	04:26	May 12	02:03	May 18	23:57
May 26	00:02	Jun 2	22:38	Jun 10	11:57	Jun 17	05:02
Jun 24	11:59	Jul 2	15:24	Jul 9	20:01	Jul 16	11:00
Jul 24	01:41	Aug 1	05:57	Aug 8	03:22	Aug 14	19:03
Aug 22	17:10 A	Aug 30	18:09	Sep 6	10:59 t	Sep 13	06:16
Sep 21	09:46	Sep 29	04:19	Oct 5	19:35	Oct 12	21:24
Oct 21	02:22	Oct 28	13:06	Nov 4	05:46	Nov 11	16:25
Nov 19	18:03	Nov 26	21:09	Dec 3	18:07	Dec 11	13:59
Dec 19	08:23	Dec 26	05:11				

1980  
00h01m

Jan 2	09:02	Jan 10	11:50				
Jan 17	21:19	Jan 24	13:59	Feb 1	02:21	Feb 9	07:36
Feb 16	08:51 T	Feb 23	00:15	Mar 1	20:59 n	Mar 9	23:49
Mar 16	18:57	Mar 23	12:32	Mar 31	15:14	Apr 8	12:07
Apr 15	03:47	Apr 22	03:00	Apr 30	07:36	May 7	20:51
May 14	12:01	May 21	19:16	May 29	21:29	Jun 6	02:54
Jun 12	20:40	Jun 20	12:31	Jun 28	09:04	Jul 5	07:29
Jul 12	06:47	Jul 20	05:51	Jul 27	18:56 n	Aug 3	12:02
Aug 10	19:10 A	Aug 18	22:29	Aug 26	03:44 n	Sep 1	18:09
Sep 9	10:01	Sep 17	13:55	Sep 24	12:08	Oct 1	03:19
Oct 9	02:50	Oct 17	03:47	Oct 23	20:52	Oct 30	16:33
Nov 7	20:42	Nov 15	15:46	Nov 22	06:39	Nov 29	09:58
Dec 7	14:34	Dec 15	01:46	Dec 21	18:08	Dec 29	06:31

Year            New Moon            First Quarter            Full Moon            Last Quarter  
Delta T

1981  
00h01m

Jan 6	07:23	Jan 13	10:10	Jan 20	07:39 n	Jan 28	04:19
Feb 4	22:14 A	Feb 11	17:49	Feb 18	22:58	Feb 27	01:16
Mar 6	10:32	Mar 13	01:51	Mar 20	15:22	Mar 28	19:36
Apr 4	20:20	Apr 11	11:11	Apr 19	07:59	Apr 27	10:16
May 4	04:20	May 10	22:22	May 19	00:04	May 26	21:01
Jun 2	11:33	Jun 9	11:33	Jun 17	15:06	Jun 25	04:26
Jul 1	19:05	Jul 9	02:40	Jul 17	04:40 p	Jul 24	09:41
Jul 31	03:53 T	Aug 7	19:27	Aug 15	16:38	Aug 22	14:17
Aug 29	14:44	Sep 6	13:27	Sep 14	03:10	Sep 20	19:49
Sep 28	04:07	Oct 6	07:46	Oct 13	12:51	Oct 20	03:42
Oct 27	20:13	Nov 5	01:09	Nov 11	22:27	Nov 18	14:55
Nov 26	14:38	Dec 4	16:21	Dec 11	08:42	Dec 18	05:47
Dec 26	10:10						

1982  
00h01m

Jan 3	04:45	Jan 9	19:53 t	Jan 16	23:59		
Jan 25	04:56 P	Feb 1	14:27	Feb 8	07:57	Feb 15	20:23
Feb 23	21:14	Mar 2	22:15	Mar 9	20:45	Mar 17	17:17
Mar 25	10:19	Apr 1	05:08	Apr 8	10:18	Apr 16	12:44



Apr 23	20:30	Apr 30	12:07	May 8	00:45	May 16	05:12
May 23	04:41	May 29	20:07	Jun 6	15:59	Jun 14	18:07
Jun 21	11:52 P	Jun 28	05:56	Jul 6	07:32 t	Jul 14	03:47
Jul 20	18:57 P	Jul 27	18:22	Aug 4	22:35	Aug 12	11:09
Aug 19	02:45	Aug 26	09:49	Sep 3	12:29	Sep 10	17:19
Sep 17	12:09	Sep 25	04:07	Oct 3	01:10	Oct 9	23:27
Oct 17	00:03	Oct 25	00:07	Nov 1	12:58	Nov 8	06:39
Nov 15	15:10	Nov 23	20:05	Dec 1	00:22	Dec 7	15:55
Dec 15	09:19 P	Dec 23	14:16	Dec 30	11:33 t		

1983  
00h01m

						Jan 6	04:01
Jan 14	05:08	Jan 22	05:33	Jan 28	22:26	Feb 4	19:18
Feb 13	00:33	Feb 20	17:31	Feb 27	08:58	Mar 6	13:17
Mar 14	17:45	Mar 22	02:25	Mar 28	19:26	Apr 5	08:39
Apr 13	08:00	Apr 20	08:58	Apr 27	06:30	May 5	03:43
May 12	19:26	May 19	14:17	May 26	18:48	Jun 3	21:08
Jun 11	04:38 T	Jun 17	19:46	Jun 25	08:32 p	Jul 3	12:13
Jul 10	12:19	Jul 17	02:51	Jul 24	23:28	Aug 2	00:54
Aug 8	19:18	Aug 15	12:47	Aug 23	15:01	Aug 31	11:24
Sep 7	02:35	Sep 14	02:23	Sep 22	06:38	Sep 29	20:06
Oct 6	11:16	Oct 13	19:41	Oct 21	21:55	Oct 29	03:38
Nov 4	22:21	Nov 12	15:48	Nov 20	12:31	Nov 27	10:51
Dec 4	12:26 A	Dec 12	13:09	Dec 20	02:01 n	Dec 26	18:53

1984  
00h01m

Jan 3	05:16	Jan 11	09:49	Jan 18	14:05	Jan 25	04:48
Feb 1	23:47	Feb 10	03:59	Feb 17	00:40	Feb 23	17:12
Mar 2	18:31	Mar 10	18:27	Mar 17	10:09	Mar 24	07:58
Apr 1	12:10	Apr 9	04:51	Apr 15	19:10	Apr 23	00:26
May 1	03:45	May 8	11:49	May 15	04:28 n	May 22	17:45
May 30	16:48 A	Jun 6	16:41	Jun 13	14:41 n	Jun 21	11:11
Jun 29	03:19	Jul 5	21:04	Jul 13	02:20	Jul 21	04:04
Jul 28	11:51	Aug 4	02:33	Aug 11	15:44	Aug 19	19:43
Aug 26	19:26	Sep 2	10:30	Sep 10	07:02	Sep 18	09:32
Sep 25	03:11	Oct 1	21:53	Oct 10	00:00	Oct 17	21:15
Oct 24	12:09	Oct 31	13:08	Nov 8	17:44 n	Nov 16	07:00
Nov 22	22:58 T	Nov 30	08:01	Dec 8	10:55	Dec 15	15:26
Dec 22	11:48	Dec 30	05:28				

1985  
00h01m

				Jan 7	02:17	Jan 13	23:27
Jan 21	02:29	Jan 29	03:30	Feb 5	15:19	Feb 12	07:57
Feb 19	18:43	Feb 27	23:41	Mar 7	02:13	Mar 13	17:34
Mar 21	11:59	Mar 29	16:11	Apr 5	11:32	Apr 12	04:42
Apr 20	05:22	Apr 28	04:24	May 4	19:52 t	May 11	17:34
May 19	21:41 P	May 27	12:54	Jun 3	03:49	Jun 10	08:20
Jun 18	11:58	Jun 25	18:52	Jul 2	12:07	Jul 10	00:50
Jul 17	23:56	Jul 24	23:39	Jul 31	21:40	Aug 8	18:30
Aug 16	10:05	Aug 23	04:37	Aug 30	09:26	Sep 7	12:16
Sep 14	19:19	Sep 21	11:04	Sep 29	00:08	Oct 7	05:04
Oct 14	04:33	Oct 20	20:13	Oct 28	17:38 t	Nov 5	20:07
Nov 12	14:20 T	Nov 19	09:04	Nov 27	12:43	Dec 5	09:02
Dec 12	00:55	Dec 19	01:58	Dec 27	07:32		

Year	New Moon	First Quarter	Full Moon	Last Quarter
Delta T				

1986  
00h01m

				Jan 3	19:48		
Jan 10	12:23	Jan 17	22:14	Jan 26	00:33	Feb 2	04:42
Feb 9	00:57	Feb 16	19:55	Feb 24	15:04	Mar 3	12:18
Mar 10	14:54	Mar 18	16:38	Mar 26	03:03	Apr 1	19:31

Apr 9	06:10	P	Apr 17	10:35	Apr 24	12:47	t	May 1	03:23
May 8	22:11		May 17	00:59	May 23	20:45		May 30	12:55
Jun 7	14:01		Jun 15	12:00	Jun 22	03:41		Jun 29	00:53
Jul 7	04:55		Jul 14	20:10	Jul 21	10:39		Jul 28	15:34
Aug 5	18:35		Aug 13	02:22	Aug 19	18:53		Aug 27	08:38
Sep 4	07:09		Sep 11	07:41	Sep 18	05:32		Sep 26	03:17
Oct 3	18:53	A	Oct 10	13:29	Oct 17	19:21	t	Oct 25	22:27
Nov 2	06:01		Nov 8	21:11	Nov 16	12:12		Nov 24	16:52
Dec 1	16:42		Dec 8	08:02	Dec 16	07:05		Dec 24	09:18
Dec 31	03:10								

1987  
00h01m

			Jan 6	22:34	Jan 15	02:31		Jan 22	22:46
Jan 29	13:46		Feb 5	16:20	Feb 13	20:59		Feb 21	08:56
Feb 28	00:53		Mar 7	11:57	Mar 15	13:14		Mar 22	16:22
Mar 29	12:47	A	Apr 6	07:47	Apr 14	02:32	n	Apr 20	22:15
Apr 28	01:36		May 6	02:26	May 13	12:51		May 20	04:02
May 27	15:14		Jun 4	18:53	Jun 11	20:49		Jun 18	11:02
Jun 26	05:37		Jul 4	08:34	Jul 11	03:33		Jul 17	20:17
Jul 25	20:37		Aug 2	19:24	Aug 9	10:17		Aug 16	08:25
Aug 24	11:58		Sep 1	03:47	Sep 7	18:12		Sep 14	23:45
Sep 23	03:07	A	Sep 30	10:39	Oct 7	04:11	n	Oct 14	18:07
Oct 22	17:26		Oct 29	17:10	Nov 5	16:45		Nov 13	14:40
Nov 21	06:32		Nov 28	00:37	Dec 5	08:01		Dec 13	11:43
Dec 20	18:25		Dec 27	10:01					

1988  
00h01m

					Jan 4	01:40		Jan 12	07:05
Jan 19	05:26		Jan 25	21:54	Feb 2	20:51		Feb 10	23:01
Feb 17	15:55		Feb 24	12:15	Mar 3	16:01	n	Mar 11	10:56
Mar 18	02:04	T	Mar 25	04:42	Apr 2	09:22		Apr 9	19:20
Apr 16	12:01		Apr 23	22:32	May 1	23:42		May 9	01:22
May 15	22:12		May 23	16:49	May 31	10:55		Jun 7	06:22
Jun 14	09:15		Jun 22	10:23	Jun 29	19:47		Jul 6	11:37
Jul 13	21:53		Jul 22	02:14	Jul 29	03:26		Aug 4	18:24
Aug 12	12:31		Aug 20	15:51	Aug 27	10:56	p	Sep 3	03:51
Sep 11	04:49	A	Sep 19	03:18	Sep 25	19:07		Oct 2	16:59
Oct 10	21:48		Oct 18	13:00	Oct 25	04:35		Nov 1	10:12
Nov 9	14:19		Nov 16	21:35	Nov 23	15:52		Dec 1	06:50
Dec 9	05:35		Dec 16	05:40	Dec 23	05:28		Dec 31	04:56

1989  
00h01m

Jan 7	19:21		Jan 14	13:59	Jan 21	21:33		Jan 30	02:02
Feb 6	07:37		Feb 12	23:15	Feb 20	15:31	t	Feb 28	20:09
Mar 7	18:19	P	Mar 14	10:11	Mar 22	09:58		Mar 30	10:22
Apr 6	03:34		Apr 12	23:13	Apr 21	03:14		Apr 28	20:46
May 5	11:48		May 12	14:19	May 20	18:18		May 28	04:01
Jun 3	19:54		Jun 11	06:58	Jun 19	06:59		Jun 26	09:10
Jul 3	05:00		Jul 11	00:18	Jul 18	17:43		Jul 25	13:33
Aug 1	16:06		Aug 9	17:28	Aug 17	03:08	t	Aug 23	18:42
Aug 31	05:45	P	Sep 8	09:50	Sep 15	11:51		Sep 22	02:11
Sep 29	21:47		Oct 8	00:52	Oct 14	20:32		Oct 21	13:19
Oct 29	15:27		Nov 6	14:11	Nov 13	05:52		Nov 20	04:44
Nov 28	09:40		Dec 6	01:25	Dec 12	16:30		Dec 19	23:54
Dec 28	03:19								

1990  
00h01m

			Jan 4	10:40	Jan 11	04:57		Jan 18	21:17
Jan 26	19:20	A	Feb 2	18:33	Feb 9	19:15	t	Feb 17	18:49
Feb 25	08:55		Mar 4	02:05	Mar 11	10:58		Mar 19	14:32
Mar 26	19:49		Apr 2	10:24	Apr 10	03:18		Apr 18	07:04
Apr 25	04:28		May 1	20:17	May 9	19:31		May 17	19:46
May 24	11:48		May 31	08:09	Jun 8	11:01		Jun 16	04:48

Jun 22	18:55	Jun 29	22:06	Jul 8	01:23	Jul 15	11:04
Jul 22	02:54 T	Jul 29	14:00	Aug 6	14:19 p	Aug 13	15:54
Aug 20	12:38	Aug 28	07:33	Sep 5	01:46	Sep 11	20:53
Sep 19	00:45	Sep 27	02:05	Oct 4	12:02	Oct 11	03:32
Oct 18	15:36	Oct 26	20:26	Nov 2	21:49	Nov 9	13:02
Nov 17	09:04	Nov 25	13:11	Dec 2	07:50	Dec 9	02:04
Dec 17	04:22	Dec 25	03:15	Dec 31	18:36		

Year Delta T	New Moon	First Quarter	Full Moon	Last Quarter
1991 00h01m				Jan 7 18:36
	Jan 15 23:50 A	Jan 23 14:21	Jan 30 06:10 n	Feb 6 13:53
	Feb 14 17:32	Feb 21 22:58	Feb 28 18:24	Mar 8 10:34
	Mar 16 08:12	Mar 23 06:03	Mar 30 07:17	Apr 7 06:47
	Apr 14 19:39	Apr 21 12:39	Apr 28 20:58	May 7 00:47
	May 14 04:36	May 20 19:46	May 28 11:36	Jun 5 15:31
	Jun 12 12:06	Jun 19 04:19	Jun 27 02:58 n	Jul 5 02:50
	Jul 11 19:06 T	Jul 18 15:10	Jul 26 18:24 n	Aug 3 11:25
	Aug 10 02:27	Aug 17 05:00	Aug 25 09:07	Sep 1 18:16
	Sep 8 11:00	Sep 15 22:00	Sep 23 22:40	Oct 1 00:30
	Oct 7 21:37	Oct 15 17:31	Oct 23 11:09	Oct 30 07:11
	Nov 6 11:10	Nov 14 14:00	Nov 21 22:57	Nov 28 15:22
	Dec 6 03:56	Dec 14 09:31	Dec 21 10:23 p	Dec 28 01:56
1992 00h01m	Jan 4 23:10 A	Jan 13 02:31	Jan 19 21:28	Jan 26 15:28
	Feb 3 19:00	Feb 11 16:14	Feb 18 08:03	Feb 25 07:56
	Mar 4 13:23	Mar 12 02:35	Mar 18 18:17	Mar 26 02:30
	Apr 3 05:02	Apr 10 10:05	Apr 17 04:42	Apr 24 21:40
	May 2 17:45	May 9 15:43	May 16 16:02	May 24 15:54
	Jun 1 03:57	Jun 7 20:47	Jun 15 04:50 p	Jun 23 08:12
	Jun 30 12:18 T	Jul 7 02:44	Jul 14 19:07	Jul 22 22:14
	Jul 29 19:35	Aug 5 10:59	Aug 13 10:28	Aug 21 10:02
	Aug 28 02:42	Sep 3 22:38	Sep 12 02:18	Sep 19 19:54
	Sep 26 10:40	Oct 3 14:10	Oct 11 18:04	Oct 19 04:12
	Oct 25 20:33	Nov 2 09:09	Nov 10 09:21	Nov 17 11:39
	Nov 24 09:11	Dec 2 06:16	Dec 9 23:41 t	Dec 16 19:14
	Dec 24 00:43 P			
1993 00h01m		Jan 1 03:38	Jan 8 12:37	Jan 15 04:02
	Jan 22 18:27	Jan 30 23:20	Feb 6 23:55	Feb 13 14:57
	Feb 21 13:05	Mar 1 15:46	Mar 8 09:46	Mar 15 04:17
	Mar 23 07:15	Mar 31 04:09	Apr 6 18:43	Apr 13 19:38
	Apr 21 23:49	Apr 29 12:40	May 6 03:33	May 13 12:20
	May 21 14:07 P	May 28 18:21	Jun 4 13:01 t	Jun 12 05:37
	Jun 20 01:52	Jun 26 22:43	Jul 3 23:45	Jul 11 22:50
	Jul 19 11:24	Jul 26 03:25	Aug 2 12:09	Aug 10 15:21
	Aug 17 19:28	Aug 24 09:57	Sep 1 02:33	Sep 9 06:27
	Sep 16 03:10	Sep 22 19:31	Sep 30 18:54	Oct 8 19:35
	Oct 15 11:35	Oct 22 08:51	Oct 30 12:38	Nov 7 06:35
	Nov 13 21:34 P	Nov 21 02:02	Nov 29 06:31 t	Dec 6 15:48
	Dec 13 09:27	Dec 20 22:26	Dec 28 23:06	
1994 00h01m				Jan 5 00:00
	Jan 11 23:11	Jan 19 20:27	Jan 27 13:23	Feb 3 08:06
	Feb 10 14:31	Feb 18 17:48	Feb 26 01:16	Mar 4 16:54
	Mar 12 07:06	Mar 20 12:15	Mar 27 11:10	Apr 3 02:55
	Apr 11 00:18	Apr 19 02:34	Apr 25 19:45	May 2 14:33
	May 10 17:07 A	May 18 12:49	May 25 03:39 p	Jun 1 04:03

Jun 9	08:27	Jun 16	19:56	Jun 23	11:32	Jun 30	19:32
Jul 8	21:37	Jul 16	01:11	Jul 22	20:15	Jul 30	12:41
Aug 7	08:44	Aug 14	05:57	Aug 21	06:46	Aug 29	06:41
Sep 5	18:32	Sep 12	11:35	Sep 19	19:59	Sep 28	00:23
Oct 5	03:54	Oct 11	19:18	Oct 19	12:18	Oct 27	16:44
Nov 3	13:35 T	Nov 10	06:14	Nov 18	06:57 n	Nov 26	07:04
Dec 2	23:54	Dec 9	21:06	Dec 18	02:17	Dec 25	19:06

1995  
00h01m

Jan 1	10:56	Jan 8	15:46	Jan 16	20:27	Jan 24	04:58
Jan 30	22:49	Feb 7	12:53	Feb 15	12:16	Feb 22	13:04
Mar 1	11:49	Mar 9	10:12	Mar 17	01:26	Mar 23	20:10
Mar 31	02:10	Apr 8	05:34	Apr 15	12:09 p	Apr 22	03:18
Apr 29	17:37 A	May 7	21:43	May 14	20:48	May 21	11:36
May 29	09:27	Jun 6	10:25	Jun 13	04:03	Jun 19	22:00
Jun 28	00:50	Jul 5	20:02	Jul 12	10:48	Jul 19	11:09
Jul 27	15:12	Aug 4	03:16	Aug 10	18:15	Aug 18	03:03
Aug 26	04:30	Sep 2	09:04	Sep 9	03:35	Sep 16	21:09
Sep 24	16:54	Oct 1	14:36	Oct 8	15:51 n	Oct 16	16:27
Oct 24	04:35 T	Oct 30	21:17	Nov 7	07:21	Nov 15	11:42
Nov 22	15:42	Nov 29	06:29	Dec 7	01:27	Dec 15	05:33
Dec 22	02:22	Dec 28	19:06				

Year	New Moon	First Quarter	Full Moon	Last Quarter
Delta T				

1996  
00h01m

			Jan 5	20:51	Jan 13	20:46	
Jan 20	12:51	Jan 27	11:12	Feb 4	15:58	Feb 12	08:37
Feb 18	23:31	Feb 26	05:51	Mar 5	09:23	Mar 12	17:15
Mar 19	10:46	Mar 27	01:30	Apr 4	00:08 t	Apr 10	23:35
Apr 17	22:50 P	Apr 25	20:40	May 3	11:49	May 10	05:04
May 17	11:48	May 25	14:14	Jun 1	20:48	Jun 8	11:06
Jun 16	01:37	Jun 24	05:24	Jul 1	03:59	Jul 7	18:55
Jul 15	16:15	Jul 23	17:49	Jul 30	10:36	Aug 6	05:25
Aug 14	07:33	Aug 22	03:37	Aug 28	17:52	Sep 4	19:06
Sep 12	23:06	Sep 20	11:23	Sep 27	02:50 t	Oct 4	12:05
Oct 12	14:13 P	Oct 19	18:09	Oct 26	14:10	Nov 3	07:52
Nov 11	04:15	Nov 18	01:09	Nov 25	04:09	Dec 3	05:07
Dec 10	16:55	Dec 17	09:31	Dec 24	20:40		

1997  
00h01m

					Jan 2	01:46	
Jan 9	04:25	Jan 15	20:02	Jan 23	15:10	Jan 31	19:40
Feb 7	15:06	Feb 14	08:57	Feb 22	10:26	Mar 2	09:37
Mar 9	01:15 T	Mar 16	00:06	Mar 24	04:45 p	Mar 31	19:37
Apr 7	11:03	Apr 14	17:00	Apr 22	20:35	Apr 30	02:36
May 6	20:48	May 14	10:56	May 22	09:15	May 29	07:51
Jun 5	07:05	Jun 13	04:52	Jun 20	19:11	Jun 27	12:43
Jul 4	18:41	Jul 12	21:44	Jul 20	03:22	Jul 26	18:30
Aug 3	08:15	Aug 11	12:43	Aug 18	10:57	Aug 25	02:25
Sep 1	23:52 P	Sep 10	01:31	Sep 16	18:51 t	Sep 23	13:36
Oct 1	16:52	Oct 9	12:22	Oct 16	03:46	Oct 23	04:49
Oct 31	10:01	Nov 7	21:43	Nov 14	14:11	Nov 21	23:59
Nov 30	02:14	Dec 7	06:10	Dec 14	02:37	Dec 21	21:44
Dec 29	16:56						

1998  
00h01m

		Jan 5	14:19	Jan 12	17:24	Jan 20	19:41
Jan 28	06:01	Feb 3	22:54	Feb 11	10:23	Feb 19	15:28
Feb 26	17:26 T	Mar 5	08:41	Mar 13	04:34 n	Mar 21	07:39
Mar 28	03:14	Apr 3	20:19	Apr 11	22:23	Apr 19	19:53
Apr 26	11:42	May 3	10:03	May 11	14:30	May 19	04:35

May 25	19:33	Jun 2	01:44	Jun 10	04:19	Jun 17	10:38
Jun 24	03:51	Jul 1	18:41	Jul 9	16:02	Jul 16	15:14
Jul 23	13:44	Jul 31	12:04	Aug 8	02:11 n	Aug 14	19:50
Aug 22	02:03 A	Aug 30	05:07	Sep 6	11:22 n	Sep 13	01:59
Sep 20	17:02	Sep 28	21:11	Oct 5	20:12	Oct 12	11:12
Oct 20	10:10	Oct 28	11:47	Nov 4	05:19	Nov 11	00:29
Nov 19	04:27	Nov 27	00:23	Dec 3	15:20	Dec 10	17:54
Dec 18	22:43	Dec 26	10:46				

1999  
00h01m

				Jan 2	02:50	Jan 9	14:22
Jan 17	15:47	Jan 24	19:16	Jan 31	16:07 n	Feb 8	11:59
Feb 16	06:40 A	Feb 23	02:44	Mar 2	06:59	Mar 10	08:43
Mar 17	18:49	Mar 24	10:18	Mar 31	22:49	Apr 9	02:53
Apr 16	04:23	Apr 22	19:02	Apr 30	14:54	May 8	17:30
May 15	12:05	May 22	05:33	May 30	06:40	Jun 7	04:20
Jun 13	19:03	Jun 20	18:12	Jun 28	21:37	Jul 6	11:57
Jul 13	02:24	Jul 20	08:59	Jul 28	11:25 p	Aug 4	17:27
Aug 11	11:09 T	Aug 19	01:47	Aug 26	23:49	Sep 2	22:18
Sep 9	22:02	Sep 17	20:06	Sep 25	10:52	Oct 2	04:03
Oct 9	11:34	Oct 17	15:00	Oct 24	21:03	Oct 31	12:05
Nov 8	03:53	Nov 16	09:03	Nov 23	07:05	Nov 29	23:20
Dec 7	22:32	Dec 16	00:50	Dec 22	17:32	Dec 29	14:05

2000  
00h01m

Jan 6	18:14	Jan 14	13:34	Jan 21	04:41 t	Jan 28	07:58
Feb 5	13:04 P	Feb 12	23:21	Feb 19	16:27	Feb 27	03:55
Mar 6	05:18	Mar 13	06:59	Mar 20	04:44	Mar 28	00:23
Apr 4	18:13	Apr 11	13:30	Apr 18	17:41	Apr 26	19:32
May 4	04:13	May 10	20:01	May 18	07:34	May 26	11:56
Jun 2	12:15	Jun 9	03:29	Jun 16	22:27	Jun 25	01:01
Jul 1	19:20 P	Jul 8	12:53	Jul 16	13:56 t	Jul 24	11:03
Jul 31	02:25 P	Aug 7	01:02	Aug 15	05:14	Aug 22	18:51
Aug 29	10:20	Sep 5	16:28	Sep 13	19:38	Sep 21	01:29
Sep 27	19:53	Oct 5	10:59	Oct 13	08:54	Oct 20	08:00
Oct 27	07:58	Nov 4	07:26	Nov 11	21:16	Nov 18	15:26
Nov 25	23:12	Dec 4	03:55	Dec 11	09:04	Dec 18	00:43
Dec 25	17:23 P						

Year            New Moon            First Quarter            Full Moon            Last Quarter  
Delta T

2001  
00h01m

		Jan 2	22:32	Jan 9	20:25 t	Jan 16	12:36
Jan 24	13:08	Feb 1	14:02	Feb 8	07:12	Feb 15	03:25
Feb 23	08:22	Mar 3	02:03	Mar 9	17:23	Mar 16	20:47
Mar 25	01:23	Apr 1	10:49	Apr 8	03:22	Apr 15	15:32
Apr 23	15:27	Apr 30	17:08	May 7	13:53	May 15	10:12
May 23	02:47	May 29	22:10	Jun 6	01:40	Jun 14	03:29
Jun 21	11:58 T	Jun 28	03:20	Jul 5	15:04 p	Jul 13	18:47
Jul 20	19:44	Jul 27	10:09	Aug 4	05:56	Aug 12	07:54
Aug 19	02:55	Aug 25	19:54	Sep 2	21:44	Sep 10	19:00
Sep 17	10:27	Sep 24	09:30	Oct 2	13:50	Oct 10	04:20
Oct 16	19:23	Oct 24	02:57	Nov 1	05:42	Nov 8	12:22
Nov 15	06:40	Nov 22	23:20	Nov 30	20:50	Dec 7	19:53
Dec 14	20:48 A	Dec 22	20:57	Dec 30	10:41 n		

2002  
00h01m

						Jan 6	03:56
Jan 13	13:30	Jan 21	17:48	Jan 28	22:51	Feb 4	13:34
Feb 12	07:42	Feb 20	12:03	Feb 27	09:17	Mar 6	01:26
Mar 14	02:04	Mar 22	02:29	Mar 28	18:25	Apr 4	15:30
Apr 12	19:22	Apr 20	12:49	Apr 27	03:00	May 4	07:17

May 12	10:46	May 19	19:42	May 26	11:51 n	Jun 3	00:06
Jun 10	23:47 A	Jun 18	00:29	Jun 24	21:42 n	Jul 2	17:21
Jul 10	10:26	Jul 17	04:47	Jul 24	09:07	Aug 1	10:24
Aug 8	19:15	Aug 15	10:12	Aug 22	22:29	Aug 31	02:32
Sep 7	03:10	Sep 13	18:08	Sep 21	13:59	Sep 29	17:03
Oct 6	11:17	Oct 13	05:33	Oct 21	07:21	Oct 29	05:28
Nov 4	20:35	Nov 11	20:52	Nov 20	01:35 n	Nov 27	15:46
Dec 4	07:35 T	Dec 11	15:49	Dec 19	19:11	Dec 27	00:31

2003  
00h01m

Jan 2	20:24	Jan 10	13:16	Jan 18	10:49	Jan 25	08:34
Feb 1	10:50	Feb 9	11:12	Feb 16	23:52	Feb 23	16:47
Mar 3	02:36	Mar 11	07:15	Mar 18	10:35	Mar 25	01:52
Apr 1	19:19	Apr 9	23:40	Apr 16	19:36	Apr 23	12:19
May 1	12:15	May 9	11:52	May 16	03:35 t	May 23	00:31
May 31	04:20 A	Jun 7	20:26	Jun 14	11:15	Jun 21	14:46
Jun 29	18:38	Jul 7	02:32	Jul 13	19:20	Jul 21	07:02
Jul 29	06:52	Aug 5	07:28	Aug 12	04:47	Aug 20	00:49
Aug 27	17:25	Sep 3	12:35	Sep 10	16:35	Sep 18	19:03
Sep 26	03:08	Oct 2	19:11	Oct 10	07:27	Oct 18	12:32
Oct 25	12:50	Nov 1	04:26	Nov 9	01:14 t	Nov 17	04:16
Nov 23	22:59 T	Nov 30	17:16	Dec 8	20:38	Dec 16	17:43
Dec 23	09:44	Dec 30	10:04				

2004  
00h01m

				Jan 7	15:41	Jan 15	04:46
Jan 21	21:07	Jan 29	06:03	Feb 6	08:49	Feb 13	13:40
Feb 20	09:20	Feb 28	03:24	Mar 6	23:16	Mar 13	21:02
Mar 20	22:43	Mar 28	23:48	Apr 5	11:04	Apr 12	03:47
Apr 19	13:23 P	Apr 27	17:33	May 4	20:34 t	May 11	11:05
May 19	04:53	May 27	07:57	Jun 3	04:20	Jun 9	20:03
Jun 17	20:28	Jun 25	19:08	Jul 2	11:09	Jul 9	07:34
Jul 17	11:24	Jul 25	03:38	Jul 31	18:05	Aug 7	22:01
Aug 16	01:23	Aug 23	10:12	Aug 30	02:21	Sep 6	15:10
Sep 14	14:28	Sep 21	15:54	Sep 28	13:08	Oct 6	10:12
Oct 14	02:47 P	Oct 20	21:59	Oct 28	03:06 t	Nov 5	05:54
Nov 12	14:25	Nov 19	05:51	Nov 26	20:07	Dec 5	00:54
Dec 12	01:28	Dec 18	16:39	Dec 26	15:06		

2005  
00h01m

						Jan 3	17:46
Jan 10	12:03	Jan 17	06:57	Jan 25	10:32	Feb 2	07:27
Feb 8	22:29	Feb 16	00:15	Feb 24	04:54	Mar 3	17:37
Mar 10	09:12	Mar 17	19:18	Mar 25	21:00	Apr 2	00:51
Apr 8	20:34 H	Apr 16	14:38	Apr 24	10:08 n	May 1	06:25
May 8	08:48	May 16	08:58	May 23	20:20	May 30	11:48
Jun 6	21:57	Jun 15	01:24	Jun 22	04:15	Jun 28	18:24
Jul 6	12:04	Jul 14	15:21	Jul 21	11:01	Jul 28	03:20
Aug 5	03:05	Aug 13	02:39	Aug 19	17:54	Aug 26	15:19
Sep 3	18:45	Sep 11	11:37	Sep 18	02:00	Sep 25	06:41
Oct 3	10:27 A	Oct 10	19:00	Oct 17	12:13 p	Oct 25	01:17
Nov 2	01:23	Nov 9	01:57	Nov 16	00:56	Nov 23	22:12
Dec 1	14:59	Dec 8	09:36	Dec 15	16:14	Dec 23	19:37
Dec 31	03:11						

Year  
Delta T

New Moon      First Quarter      Full Moon      Last Quarter

2006  
00h01m

		Jan 6	18:56	Jan 14	09:47	Jan 22	15:14
Jan 29	14:15	Feb 5	06:28	Feb 13	04:44	Feb 21	07:17
Feb 28	00:32	Mar 6	20:15	Mar 14	23:35 n	Mar 22	19:10
Mar 29	10:16 T	Apr 5	12:01	Apr 13	16:41	Apr 21	03:28

Apr 27	19:45	May 5	05:13	May 13	06:52	May 20	09:20
May 27	05:27	Jun 3	23:06	Jun 11	18:04	Jun 18	14:08
Jun 25	16:06	Jul 3	16:36	Jul 11	03:03	Jul 17	19:13
Jul 25	04:31	Aug 2	08:45	Aug 9	10:55	Aug 16	01:52
Aug 23	19:09	Aug 31	22:56	Sep 7	18:43 p	Sep 14	11:17
Sep 22	11:45 A	Sep 30	11:03	Oct 7	03:13	Oct 14	00:26
Oct 22	05:13	Oct 29	21:25	Nov 5	12:58	Nov 12	17:46
Nov 20	22:17	Nov 28	06:29	Dec 5	00:24	Dec 12	14:32
Dec 20	14:00	Dec 27	14:48				

2007  
00h01m

				Jan 3	13:57	Jan 11	12:44
Jan 19	04:00	Jan 25	23:02	Feb 2	05:45	Feb 10	09:51
Feb 17	16:14	Feb 24	07:56	Mar 3	23:16 t	Mar 12	03:55
Mar 19	02:43 P	Mar 25	18:16	Apr 2	17:15	Apr 10	18:04
Apr 17	11:36	Apr 24	06:35	May 2	10:10	May 10	04:27
May 16	19:28	May 23	21:02	Jun 1	01:04	Jun 8	11:43
Jun 15	03:14	Jun 22	13:14	Jun 30	13:49	Jul 7	16:54
Jul 14	12:04	Jul 22	06:28	Jul 30	00:49	Aug 5	21:21
Aug 12	23:02	Aug 20	23:54	Aug 28	10:36 t	Sep 4	02:34
Sep 11	12:44 P	Sep 19	16:48	Sep 26	19:46	Oct 3	10:07
Oct 11	05:01	Oct 19	08:33	Oct 26	04:52	Nov 1	21:19
Nov 9	23:03	Nov 17	22:32	Nov 24	14:30	Dec 1	12:44
Dec 9	17:40	Dec 17	10:17	Dec 24	01:15	Dec 31	07:50

2008  
00h01m

Jan 8	11:36	Jan 15	19:45	Jan 22	13:34	Jan 30	05:02
Feb 7	03:44 A	Feb 14	03:33	Feb 21	03:29 t	Feb 29	02:19
Mar 7	17:14	Mar 14	10:45	Mar 21	18:39	Mar 29	21:48
Apr 6	03:55	Apr 12	18:31	Apr 20	10:24	Apr 28	14:13
May 5	12:18	May 12	03:46	May 20	02:11	May 28	02:57
Jun 3	19:23	Jun 10	15:02	Jun 18	17:30	Jun 26	12:10
Jul 3	02:19	Jul 10	04:34	Jul 18	07:59	Jul 25	18:42
Aug 1	10:13 T	Aug 8	20:20	Aug 16	21:17 p	Aug 23	23:50
Aug 30	19:58	Sep 7	14:04	Sep 15	09:14	Sep 22	05:05
Sep 29	08:12	Oct 7	09:05	Oct 14	20:03	Oct 21	11:56
Oct 28	23:14	Nov 6	04:03	Nov 13	06:18	Nov 19	21:32
Nov 27	16:55	Dec 5	21:25	Dec 12	16:38	Dec 19	10:30
Dec 27	12:22						

2009  
00h01m

		Jan 4	11:55	Jan 11	03:27	Jan 18	02:46
Jan 26	07:55 A	Feb 2	23:12	Feb 9	14:48 n	Feb 16	21:38
Feb 25	01:35	Mar 4	07:44	Mar 11	02:37	Mar 18	17:49
Mar 26	16:07	Apr 2	14:33	Apr 9	14:55	Apr 17	13:37
Apr 25	03:23	May 1	20:44	May 9	04:01	May 17	07:27
May 24	12:11	May 31	03:22	Jun 7	18:11	Jun 15	22:15
Jun 22	19:35	Jun 29	11:28	Jul 7	09:21 n	Jul 15	09:53
Jul 22	02:34 T	Jul 28	21:59	Aug 6	00:55 n	Aug 13	18:55
Aug 20	10:01	Aug 27	11:41	Sep 4	16:03	Sep 12	02:15
Sep 18	18:43	Sep 26	04:48	Oct 4	06:10	Oct 11	08:56
Oct 18	05:32	Oct 26	00:41	Nov 2	19:14	Nov 9	15:56
Nov 16	19:13	Nov 24	21:38	Dec 2	07:31	Dec 9	00:14
Dec 16	12:02	Dec 24	17:35	Dec 31	19:13 p		

2010  
00h01m

						Jan 7	10:41
Jan 15	07:12 A	Jan 23	10:53	Jan 30	06:17	Feb 5	23:50
Feb 14	02:52	Feb 22	00:42	Feb 28	16:37	Mar 7	15:43
Mar 15	21:02	Mar 23	10:59	Mar 30	02:25	Apr 6	09:37
Apr 14	12:30	Apr 21	18:19	Apr 28	12:18	May 6	04:15
May 14	01:05	May 20	23:42	May 27	23:06	Jun 4	22:13
Jun 12	11:14	Jun 19	04:30	Jun 26	11:30 p	Jul 4	14:36

Jul 11	19:40	T	Jul 18	10:11	Jul 26	01:36	Aug 3	04:59
Aug 10	03:07		Aug 16	18:14	Aug 24	17:05	Sep 1	17:22
Sep 8	10:29		Sep 15	05:48	Sep 23	09:17	Oct 1	03:52
Oct 7	18:44		Oct 14	21:25	Oct 23	01:37	Oct 30	12:46
Nov 6	04:51		Nov 13	16:37	Nov 21	17:28	Nov 28	20:37
Dec 5	17:36		Dec 13	13:58	Dec 21	08:14	Dec 28	04:19

Year Delta T	New Moon		First Quarter		Full Moon		Last Quarter	
2011 00h01m	Jan 4	09:03 P	Jan 12	11:32	Jan 19	21:22	Jan 26	12:58
	Feb 3	02:31	Feb 11	07:19	Feb 18	08:36	Feb 24	23:27
	Mar 4	20:46	Mar 12	23:45	Mar 19	18:10	Mar 26	12:07
	Apr 3	14:32	Apr 11	12:04	Apr 18	02:43	Apr 25	02:46
	May 3	06:50	May 10	20:32	May 17	11:07	May 24	18:51
	Jun 1	21:02 P	Jun 9	02:09	Jun 15	20:12 t	Jun 23	11:48
	Jul 1	08:53 P	Jul 8	06:28	Jul 15	06:38	Jul 23	05:03
	Jul 30	18:39	Aug 6	11:08	Aug 13	18:57	Aug 21	21:56
	Aug 29	03:03	Sep 4	17:39	Sep 12	09:26	Sep 20	13:39
	Sep 27	11:08	Oct 4	03:15	Oct 12	02:06	Oct 20	03:30
	Oct 26	19:56	Nov 2	16:37	Nov 10	20:17	Nov 18	15:09
	Nov 25	06:10 P	Dec 2	09:52	Dec 10	14:37 t	Dec 18	00:48
	Dec 24	18:07						
2012 00h01m			Jan 1	06:15	Jan 9	07:31	Jan 16	09:08
	Jan 23	07:40	Jan 31	04:10	Feb 7	21:55	Feb 14	17:04
	Feb 21	22:36	Mar 1	01:22	Mar 8	09:40	Mar 15	01:26
	Mar 22	14:38	Mar 30	19:41	Apr 6	19:19	Apr 13	10:50
	Apr 21	07:19	Apr 29	09:57	May 6	03:35	May 12	21:47
	May 20	23:47 A	May 28	20:15	Jun 4	11:10 p	Jun 11	10:41
	Jun 19	15:02	Jun 27	03:29	Jul 3	18:51	Jul 11	01:48
	Jul 19	04:23	Jul 26	08:56	Aug 2	03:26	Aug 9	18:55
	Aug 17	15:53	Aug 24	13:54	Aug 31	13:57	Sep 8	13:15
	Sep 16	02:09	Sep 22	19:41	Sep 30	03:17	Oct 8	07:33
	Oct 15	12:01	Oct 22	03:33	Oct 29	19:49	Nov 7	00:36
	Nov 13	22:07 T	Nov 20	14:31	Nov 28	14:46 n	Dec 6	15:32
	Dec 13	08:41	Dec 20	05:19	Dec 28	10:21		
2013 00h01m							Jan 5	03:58
	Jan 11	19:44	Jan 18	23:45	Jan 27	04:39	Feb 3	13:56
	Feb 10	07:21	Feb 17	20:30	Feb 25	20:28	Mar 4	21:53
	Mar 11	19:53	Mar 19	17:26	Mar 27	09:29	Apr 3	04:38
	Apr 10	09:38	Apr 18	12:31	Apr 25	19:59 p	May 2	11:15
	May 10	00:30 A	May 18	04:35	May 25	04:26 n	May 31	18:59
	Jun 8	15:58	Jun 16	17:24	Jun 23	11:32	Jun 30	04:54
	Jul 8	07:15	Jul 16	03:19	Jul 22	18:15	Jul 29	17:43
	Aug 6	21:50	Aug 14	10:56	Aug 21	01:44	Aug 28	09:35
	Sep 5	11:35	Sep 12	17:09	Sep 19	11:11	Sep 27	03:55
	Oct 5	00:33	Oct 11	23:03	Oct 18	23:36 n	Oct 26	23:41
	Nov 3	12:48 H	Nov 10	05:58	Nov 17	15:15	Nov 25	19:29
	Dec 3	00:21	Dec 9	15:12	Dec 17	09:28	Dec 25	13:49
2014 00h01m	Jan 1	11:14	Jan 8	03:39	Jan 16	04:52	Jan 24	05:20
	Jan 30	21:39	Feb 6	19:21	Feb 14	23:53	Feb 22	17:16
	Mar 1	08:01	Mar 8	13:26	Mar 16	17:09	Mar 24	01:46
	Mar 30	18:47	Apr 7	08:30	Apr 15	07:44 t	Apr 22	07:52
	Apr 29	06:16 A	May 7	03:16	May 14	19:17	May 21	12:59
	May 28	18:42	Jun 5	20:40	Jun 13	04:12	Jun 19	18:39
	Jun 27	08:09	Jul 5	11:59	Jul 12	11:25	Jul 19	02:08



Jul 26	22:42	Aug 4	00:50	Aug 10	18:10	Aug 17	12:26
Aug 25	14:12	Sep 2	11:11	Sep 9	01:38	Sep 16	02:05
Sep 24	06:12	Oct 1	19:32	Oct 8	10:49 t	Oct 15	19:12
Oct 23	21:55 P	Oct 31	02:48	Nov 6	22:22	Nov 14	15:17
Nov 22	12:31	Nov 29	10:06	Dec 6	12:26	Dec 14	12:53
Dec 22	01:35	Dec 28	18:32				

2015  
00h01m

				Jan 5	04:53	Jan 13	09:48
Jan 20	13:14	Jan 27	04:48	Feb 3	23:09	Feb 12	03:51
Feb 18	23:48	Feb 25	17:14	Mar 5	18:05	Mar 13	17:48
Mar 20	09:37 T	Mar 27	07:43	Apr 4	12:06 p	Apr 12	03:44
Apr 18	18:58	Apr 25	23:56	May 4	03:43	May 11	10:36
May 18	04:14	May 25	17:19	Jun 2	16:21	Jun 9	15:42
Jun 16	14:06	Jun 24	11:03	Jul 2	02:21	Jul 8	20:25
Jul 16	01:25	Jul 24	04:04	Jul 31	10:44	Aug 7	02:04
Aug 14	14:53	Aug 22	19:31	Aug 29	18:36	Sep 5	09:56
Sep 13	06:41 P	Sep 21	08:59	Sep 28	02:51 t	Oct 4	21:07
Oct 13	00:05	Oct 20	20:31	Oct 27	12:05	Nov 3	12:24
Nov 11	17:46	Nov 19	06:27	Nov 25	22:44	Dec 3	07:41
Dec 11	10:29	Dec 18	15:14	Dec 25	11:11		

Year	New Moon	First Quarter	Full Moon	Last Quarter
Delta T				

2016  
00h01m

				Jan 2	05:30		
Jan 10	01:30	Jan 16	23:26	Jan 24	01:45	Feb 1	03:28
Feb 8	14:39	Feb 15	07:47	Feb 22	18:19	Mar 1	23:11
Mar 9	01:55 T	Mar 15	17:03	Mar 23	12:00 n	Mar 31	15:17
Apr 7	11:24	Apr 14	03:59	Apr 22	05:24	Apr 30	03:29
May 6	19:30	May 13	17:02	May 21	21:15	May 29	12:12
Jun 5	03:00	Jun 12	08:09	Jun 20	11:04	Jun 27	18:20
Jul 4	11:02	Jul 12	00:51	Jul 19	22:58	Jul 26	23:01
Aug 2	20:45	Aug 10	18:21	Aug 18	09:28	Aug 25	03:43
Sep 1	09:04 A	Sep 9	11:50	Sep 16	19:07 n	Sep 23	09:58
Oct 1	00:12	Oct 9	04:34	Oct 16	04:24	Oct 22	19:15
Oct 30	17:39	Nov 7	19:51	Nov 14	13:52	Nov 21	08:34
Nov 29	12:18	Dec 7	09:03	Dec 14	00:06	Dec 21	01:55
Dec 29	06:53						

2017  
00h01m

		Jan 5	19:46	Jan 12	11:34	Jan 19	22:13
Jan 28	00:07	Feb 4	04:18	Feb 11	00:33 n	Feb 18	19:34
Feb 26	14:59 A	Mar 5	11:32	Mar 12	14:53	Mar 20	16:00
Mar 28	02:58	Apr 3	18:40	Apr 11	06:08	Apr 19	09:59
Apr 26	12:17	May 3	02:47	May 10	21:43	May 19	00:34
May 25	19:45	Jun 1	12:42	Jun 9	13:10	Jun 17	11:34
Jun 24	02:31	Jul 1	00:50	Jul 9	04:07	Jul 16	19:26
Jul 23	09:46	Jul 30	15:23	Aug 7	18:11 p	Aug 15	01:16
Aug 21	18:30 T	Aug 29	08:13	Sep 6	07:04	Sep 13	06:25
Sep 20	05:29	Sep 28	02:54	Oct 5	18:41	Oct 12	12:26
Oct 19	19:11	Oct 27	22:22	Nov 4	05:23	Nov 10	20:37
Nov 18	11:42	Nov 26	17:02	Dec 3	15:47	Dec 10	07:52
Dec 18	06:30	Dec 26	09:19				

2018  
00h01m

				Jan 2	02:24	Jan 8	22:25
Jan 17	02:17	Jan 24	22:19	Jan 31	13:26 t	Feb 7	15:54
Feb 15	21:05 P	Feb 23	08:08	Mar 2	00:51	Mar 9	11:22
Mar 17	13:13	Mar 24	15:35	Mar 31	12:36	Apr 8	07:20
Apr 16	01:59	Apr 22	21:45	Apr 30	00:58	May 8	02:10
May 15	11:48	May 22	03:49	May 29	14:19	Jun 6	18:33

Jun 13	19:44	Jun 20	10:51	Jun 28	04:53	Jul 6	07:51
Jul 13	02:48 P	Jul 19	19:53	Jul 27	20:21 t	Aug 4	18:18
Aug 11	09:58 P	Aug 18	07:49	Aug 26	11:57	Sep 3	02:38
Sep 9	18:01	Sep 16	23:15	Sep 25	02:53	Oct 2	09:46
Oct 9	03:46	Oct 16	18:01	Oct 24	16:46	Oct 31	16:41
Nov 7	16:02	Nov 15	14:53	Nov 23	05:40	Nov 30	00:20
Dec 7	07:20	Dec 15	11:48	Dec 22	17:49	Dec 29	09:35

2019 00h01m	Jan 6	01:28 P	Jan 14	06:45	Jan 21	05:16 t	Jan 27	21:11
	Feb 4	21:04	Feb 12	22:25	Feb 19	15:53	Feb 26	11:28
	Mar 6	16:04	Mar 14	10:26	Mar 21	01:42	Mar 28	04:10
	Apr 5	08:51	Apr 12	19:05	Apr 19	11:11	Apr 26	22:18
	May 4	22:46	May 12	01:12	May 18	21:10	May 26	16:33
	Jun 3	10:02	Jun 10	05:59	Jun 17	08:30	Jun 25	09:47
	Jul 2	19:16 T	Jul 9	10:55	Jul 16	21:38 p	Jul 25	01:19
	Aug 1	03:12	Aug 7	17:31	Aug 15	12:30	Aug 23	14:58
	Aug 30	10:37	Sep 6	03:10	Sep 14	04:34	Sep 22	02:42
	Sep 28	18:27	Oct 5	16:47	Oct 13	21:09	Oct 21	12:40
	Oct 28	03:39	Nov 4	10:22	Nov 12	13:36	Nov 19	21:12
	Nov 26	15:06	Dec 4	06:58	Dec 12	05:13	Dec 19	04:58
	Dec 26	05:14 A						

2020 00h01m			Jan 3	04:45	Jan 10	19:22 n	Jan 17	12:59
	Jan 24	21:43	Feb 2	01:42	Feb 9	07:33	Feb 15	22:18
	Feb 23	15:32	Mar 2	19:57	Mar 9	17:47	Mar 16	09:34
	Mar 24	09:28	Apr 1	10:20	Apr 8	02:34	Apr 14	22:56
	Apr 23	02:26	Apr 30	20:37	May 7	10:44	May 14	14:02
	May 22	17:38	May 30	03:29	Jun 5	19:11 n	Jun 13	06:24
	Jun 21	06:41 A	Jun 28	08:15	Jul 5	04:44 n	Jul 12	23:30
	Jul 20	17:32	Jul 27	12:32	Aug 3	15:58	Aug 11	16:46
	Aug 19	02:41	Aug 25	17:58	Sep 2	05:22	Sep 10	09:27
	Sep 17	11:00	Sep 24	01:55	Oct 1	21:06	Oct 10	00:40
	Oct 16	19:31	Oct 23	13:23	Oct 31	14:50	Nov 8	13:46
	Nov 15	05:08	Nov 22	04:45	Nov 30	09:31 n	Dec 8	00:37
	Dec 14	16:17 T	Dec 21	23:41	Dec 30	03:29		

Year	New Moon	First Quarter	Full Moon	Last Quarter
Delta T				

2021 00h01m				Jan 6	09:37			
	Jan 13	05:01	Jan 20	21:02	Jan 28	19:17	Feb 4	17:37
	Feb 11	19:07	Feb 19	18:48	Feb 27	08:18	Mar 6	01:31
	Mar 13	10:22	Mar 21	14:40	Mar 28	18:49	Apr 4	10:03
	Apr 12	02:32	Apr 20	06:59	Apr 27	03:32	May 3	19:50
	May 11	19:00	May 19	19:12	May 26	11:13 t	Jun 2	07:25
	Jun 10	10:53 A	Jun 18	03:53	Jun 24	18:39	Jul 1	21:11
	Jul 10	01:16	Jul 17	10:10	Jul 24	02:36	Jul 31	13:17
	Aug 8	13:49	Aug 15	15:20	Aug 22	12:01	Aug 30	07:14
	Sep 7	00:51	Sep 13	20:40	Sep 20	23:53	Sep 29	01:57
	Oct 6	11:04	Oct 13	03:26	Oct 20	14:56	Oct 28	20:05
	Nov 4	21:14	Nov 11	12:47	Nov 19	08:58 p	Nov 27	12:28
	Dec 4	07:43 T	Dec 11	01:36	Dec 19	04:37	Dec 27	02:25

2022 00h01m	Jan 2	18:34	Jan 9	18:12	Jan 17	23:50	Jan 25	13:42
	Feb 1	05:48	Feb 8	13:50	Feb 16	16:58	Feb 23	22:33
	Mar 2	17:37	Mar 10	10:45	Mar 18	07:19	Mar 25	05:38
	Apr 1	06:26	Apr 9	06:47	Apr 16	18:56	Apr 23	11:57
	Apr 30	20:29 P	May 9	00:21	May 16	04:14 t	May 22	18:43
	May 30	11:31	Jun 7	14:48	Jun 14	11:51	Jun 21	03:10

Jun 29	02:52	Jul 7	02:13	Jul 13	18:37	Jul 20	14:18
Jul 28	17:54	Aug 5	11:06	Aug 12	01:35	Aug 19	04:35
Aug 27	08:15	Sep 3	18:07	Sep 10	09:57	Sep 17	21:51
Sep 25	21:53	Oct 3	00:14	Oct 9	20:53	Oct 17	17:15
Oct 25	10:47 P	Nov 1	06:37	Nov 8	11:01 t	Nov 16	13:28
Nov 23	22:56	Nov 30	14:37	Dec 8	04:08	Dec 16	08:58
Dec 23	10:16	Dec 30	01:21				

2023  
00h01m

				Jan 6	23:08	Jan 15	02:12
Jan 21	20:54	Jan 28	15:19	Feb 5	18:29	Feb 13	16:02
Feb 20	07:08	Feb 27	08:05	Mar 7	12:41	Mar 15	02:09
Mar 21	17:25	Mar 29	02:32	Apr 6	04:36	Apr 13	09:11
Apr 20	04:14 H	Apr 27	21:20	May 5	17:35 n	May 12	14:28
May 19	15:54	May 27	15:22	Jun 4	03:42	Jun 10	19:31
Jun 18	04:38	Jun 26	07:50	Jul 3	11:39	Jul 10	01:48
Jul 17	18:32	Jul 25	22:07	Aug 1	18:32	Aug 8	10:28
Aug 16	09:37	Aug 24	09:57	Aug 31	01:36	Sep 6	22:21
Sep 15	01:39	Sep 22	19:31	Sep 29	09:57	Oct 6	13:48
Oct 14	17:54 A	Oct 22	03:29	Oct 28	20:23 p	Nov 5	08:37
Nov 13	09:26	Nov 20	10:49	Nov 27	09:15	Dec 5	05:51
Dec 12	23:31	Dec 19	18:39	Dec 27	00:32		

2024  
00h01m

						Jan 4	03:31
Jan 11	11:57	Jan 18	03:52	Jan 25	17:53	Feb 2	23:19
Feb 9	22:59	Feb 16	15:01	Feb 24	12:30	Mar 3	15:24
Mar 10	09:01	Mar 17	04:10	Mar 25	07:00 n	Apr 2	03:14
Apr 8	18:22 T	Apr 15	19:13	Apr 23	23:50	May 1	11:26
May 8	03:23	May 15	11:48	May 23	13:54	May 30	17:12
Jun 6	12:39	Jun 14	05:18	Jun 22	01:09	Jun 28	21:54
Jul 5	22:58	Jul 13	22:48	Jul 21	10:18	Jul 28	02:53
Aug 4	11:13	Aug 12	15:18	Aug 19	18:27	Aug 26	09:28
Sep 3	01:55	Sep 11	06:05	Sep 18	02:35 p	Sep 24	18:51
Oct 2	18:49 A	Oct 10	18:55	Oct 17	11:26	Oct 24	08:04
Nov 1	12:47	Nov 9	05:55	Nov 15	21:28	Nov 23	01:28
Dec 1	06:21	Dec 8	15:26	Dec 15	09:01	Dec 22	22:18
Dec 30	22:26						

2025  
00h01m

		Jan 6	23:56	Jan 13	22:26	Jan 21	20:31
Jan 29	12:36	Feb 5	08:02	Feb 12	13:53	Feb 20	17:33
Feb 28	00:45	Mar 6	16:32	Mar 14	06:54 t	Mar 22	11:31
Mar 29	10:59 P	Apr 5	02:15	Apr 13	00:22	Apr 21	01:36
Apr 27	19:32	May 4	13:52	May 12	16:57	May 20	11:59
May 27	03:03	Jun 3	03:40	Jun 11	07:45	Jun 18	19:19
Jun 25	10:32	Jul 2	19:29	Jul 10	20:37	Jul 18	00:38
Jul 24	19:11	Aug 1	12:40	Aug 9	07:56	Aug 16	05:13
Aug 23	06:06	Aug 31	06:24	Sep 7	18:09 t	Sep 14	10:34
Sep 21	19:53 P	Sep 29	23:53	Oct 7	03:47	Oct 13	18:13
Oct 21	12:24	Oct 29	16:21	Nov 5	13:19	Nov 12	05:28
Nov 20	06:47	Nov 28	06:58	Dec 4	23:14	Dec 11	20:51
Dec 20	01:43	Dec 27	19:09				

Year  
Delta T

New Moon      First Quarter      Full Moon      Last Quarter

2026  
00h02m

				Jan 3	10:03	Jan 10	15:48
Jan 18	19:52	Jan 26	04:47	Feb 1	22:09	Feb 9	12:43
Feb 17	12:02 A	Feb 24	12:27	Mar 3	11:38 t	Mar 11	09:40
Mar 19	01:25	Mar 25	19:18	Apr 2	02:12	Apr 10	04:54
Apr 17	11:53	Apr 24	02:32	May 1	17:23	May 9	21:12

May 16	20:02	May 23	11:11	May 31	08:45	Jun 8	10:02
Jun 15	02:54	Jun 21	21:54	Jun 29	23:57	Jul 7	19:29
Jul 14	09:44	Jul 21	11:04	Jul 29	14:36	Aug 6	02:21
Aug 12	17:36 T	Aug 20	02:45	Aug 28	04:18 p	Sep 4	07:51
Sep 11	03:26	Sep 18	20:43	Sep 26	16:49	Oct 3	13:25
Oct 10	15:49	Oct 18	16:12	Oct 26	04:12	Nov 1	20:29
Nov 9	07:01	Nov 17	11:47	Nov 24	14:54	Dec 1	06:09
Dec 9	00:51	Dec 17	05:42	Dec 24	01:28	Dec 30	18:59

2027  
00h02m

Jan 7	20:24	Jan 15	20:33	Jan 22	12:17	Jan 29	10:55
Feb 6	15:56 A	Feb 14	07:57	Feb 20	23:23 n	Feb 28	05:17
Mar 8	09:30	Mar 15	16:24	Mar 22	10:43	Mar 30	00:55
Apr 6	23:52	Apr 13	22:55	Apr 20	22:26	Apr 28	20:19
May 6	10:59	May 13	04:43	May 20	10:58	May 28	13:58
Jun 4	19:40	Jun 11	10:56	Jun 19	00:44	Jun 27	04:55
Jul 4	03:02	Jul 10	18:39	Jul 18	15:45	Jul 26	16:55
Aug 2	10:05 T	Aug 9	04:54	Aug 17	07:29 n	Aug 25	02:27
Aug 31	17:40	Sep 7	18:30	Sep 15	23:04	Sep 23	10:20
Sep 30	02:35	Oct 7	11:46	Oct 15	13:47	Oct 22	17:29
Oct 29	13:35	Nov 6	07:58	Nov 14	03:26	Nov 21	00:49
Nov 28	03:24	Dec 6	05:20	Dec 13	16:09	Dec 20	09:12
Dec 27	20:12						

2028  
00h02m

		Jan 5	01:40	Jan 12	04:03 p	Jan 18	19:27
Jan 26	15:13 A	Feb 3	19:10	Feb 10	15:03	Feb 17	08:09
Feb 25	10:37	Mar 4	09:01	Mar 11	01:05	Mar 17	23:23
Mar 26	04:32	Apr 2	19:14	Apr 9	10:25	Apr 16	16:37
Apr 24	19:47	May 2	02:25	May 8	19:48	May 16	10:43
May 24	08:16	May 31	07:37	Jun 7	06:08	Jun 15	04:28
Jun 22	18:27	Jun 29	12:11	Jul 6	18:11 p	Jul 14	20:58
Jul 22	03:01 T	Jul 28	17:41	Aug 5	08:10	Aug 13	11:47
Aug 20	10:43	Aug 27	01:36	Sep 3	23:48	Sep 12	00:47
Sep 18	18:23	Sep 25	13:09	Oct 3	16:25	Oct 11	11:57
Oct 18	02:56	Oct 25	04:51	Nov 2	09:17	Nov 9	21:25
Nov 16	13:17	Nov 24	00:12	Dec 2	01:40	Dec 9	05:38
Dec 16	02:06	Dec 23	21:43	Dec 31	16:48 t		

2029  
00h02m

						Jan 7	13:26
Jan 14	17:24 P	Jan 22	19:23	Jan 30	06:03	Feb 5	21:52
Feb 13	10:32	Feb 21	15:10	Feb 28	17:10	Mar 7	07:52
Mar 15	04:20	Mar 23	07:33	Mar 30	02:26	Apr 5	19:51
Apr 13	21:40	Apr 21	19:50	Apr 28	10:36	May 5	09:48
May 13	13:42	May 21	04:16	May 27	18:37	Jun 4	01:19
Jun 12	03:50 P	Jun 19	09:54	Jun 26	03:22 t	Jul 3	17:58
Jul 11	15:51 P	Jul 18	14:14	Jul 25	13:35	Aug 2	11:17
Aug 10	01:55	Aug 16	18:55	Aug 24	01:51	Sep 1	04:34
Sep 8	10:43	Sep 15	01:29	Sep 22	16:29	Sep 30	20:57
Oct 7	19:14	Oct 14	11:08	Oct 22	09:27	Oct 30	11:32
Nov 6	04:23	Nov 13	00:34	Nov 21	04:03	Nov 28	23:47
Dec 5	14:52 P	Dec 12	17:48	Dec 20	22:46 t	Dec 28	09:48

2030  
00h02m

Jan 4	02:50	Jan 11	14:05	Jan 19	15:55	Jan 26	18:14
Feb 2	16:08	Feb 10	11:50	Feb 18	06:21	Feb 25	01:58
Mar 4	06:35	Mar 12	08:47	Mar 19	17:57	Mar 26	09:51
Apr 2	22:03	Apr 11	02:56	Apr 18	03:20	Apr 24	18:39
May 2	14:12	May 10	17:11	May 17	11:18	May 24	04:57
Jun 1	06:21 A	Jun 9	03:34	Jun 15	18:40 p	Jun 22	17:19
Jun 30	21:33	Jul 8	11:00	Jul 15	02:10	Jul 22	08:07
Jul 30	11:10	Aug 6	16:42	Aug 13	10:43	Aug 21	01:15

Aug 28	23:06	Sep 4	21:55	Sep 11	21:16	Sep 19	19:56
Sep 27	09:53	Oct 4	03:56	Oct 11	10:45	Oct 19	14:50
Oct 26	20:16	Nov 2	11:56	Nov 10	03:30	Nov 18	08:32
Nov 25	06:46 T	Dec 1	22:57	Dec 9	22:41 n	Dec 18	00:01
Dec 24	17:32	Dec 31	13:36				

Year            New Moon            First Quarter            Full Moon            Last Quarter  
Delta T

2031				Jan 8	18:26	Jan 16	12:47	
00h02m								
	Jan 23	04:31	Jan 30	07:43	Feb 7	12:47	Feb 14	22:49
	Feb 21	15:50	Mar 1	04:01	Mar 9	04:31	Mar 16	06:36
	Mar 23	03:50	Mar 31	00:31	Apr 7	17:22	Apr 14	12:58
	Apr 21	16:58	Apr 29	19:19	May 7	03:40 n	May 13	19:07
	May 21	07:18 A	May 29	11:19	Jun 5	11:58 n	Jun 12	02:21
	Jun 19	22:25	Jun 28	00:19	Jul 4	19:01	Jul 11	11:49
	Jul 19	13:40	Jul 27	10:35	Aug 3	01:45	Aug 10	00:23
	Aug 18	04:31	Aug 25	18:40	Sep 1	09:20	Sep 8	16:14
	Sep 16	18:46	Sep 24	01:20	Sep 30	18:56	Oct 8	10:50
	Oct 16	08:19	Oct 23	07:37	Oct 30	07:31 n	Nov 7	07:03
	Nov 14	21:08 H	Nov 21	14:45	Nov 28	23:18	Dec 7	03:21
	Dec 14	09:04	Dec 21	00:00	Dec 28	17:32		

2032						Jan 5	22:05	
00h02m								
	Jan 12	20:06	Jan 19	12:13	Jan 27	12:51	Feb 4	13:49
	Feb 11	06:24	Feb 18	03:27	Feb 26	07:42	Mar 5	01:46
	Mar 11	16:25	Mar 18	20:54	Mar 27	00:46	Apr 3	10:09
	Apr 10	02:40	Apr 17	15:23	Apr 25	15:10 t	May 2	16:01
	May 9	13:37 A	May 17	09:43	May 25	02:38	May 31	20:51
	Jun 8	01:33	Jun 16	03:00	Jun 23	11:33	Jun 30	02:12
	Jul 7	14:42	Jul 15	18:33	Jul 22	18:52	Jul 29	09:26
	Aug 6	05:11	Aug 14	07:51	Aug 21	01:48	Aug 27	19:34
	Sep 4	20:56	Sep 12	18:49	Sep 19	09:30	Sep 26	09:13
	Oct 4	13:25	Oct 12	03:47	Oct 18	18:58 t	Oct 26	02:29
	Nov 3	05:44 P	Nov 10	11:33	Nov 17	06:41	Nov 24	22:49
	Dec 2	20:52	Dec 9	19:08	Dec 16	20:48	Dec 24	20:41

2033	Jan 1	10:16	Jan 8	03:34	Jan 15	13:06	Jan 23	17:46
00h02m								
	Jan 30	21:59	Feb 6	13:34	Feb 14	07:03	Feb 22	11:53
	Mar 1	08:24	Mar 8	01:26	Mar 16	01:36	Mar 24	01:49
	Mar 30	17:52 T	Apr 6	15:13	Apr 14	19:17 t	Apr 22	11:41
	Apr 29	02:46	May 6	06:45	May 14	10:43	May 21	18:28
	May 28	11:37	Jun 4	23:39	Jun 12	23:20	Jun 19	23:29
	Jun 26	21:07	Jul 4	17:12	Jul 12	09:29	Jul 19	04:08
	Jul 26	08:12	Aug 3	10:25	Aug 10	18:09	Aug 17	09:44
	Aug 24	21:39	Sep 2	02:23	Sep 9	02:21	Sep 15	17:35
	Sep 23	13:39 P	Oct 1	16:32	Oct 8	10:58 t	Oct 15	04:48
	Oct 23	07:28	Oct 31	04:46	Nov 6	20:32	Nov 13	20:09
	Nov 22	01:39	Nov 29	15:15	Dec 6	07:22	Dec 13	15:29
	Dec 21	18:46	Dec 29	00:20				

2034				Jan 4	19:47	Jan 12	13:17	
00h02m								
	Jan 20	10:02	Jan 27	08:32	Feb 3	10:04	Feb 11	11:09
	Feb 18	23:11	Feb 25	16:35	Mar 5	02:10	Mar 13	06:45
	Mar 20	10:15 T	Mar 27	01:19	Apr 3	19:18 n	Apr 11	22:46
	Apr 18	19:26	Apr 25	11:34	May 3	12:15	May 11	10:56
	May 18	03:12	May 24	23:57	Jun 2	03:54	Jun 9	19:44
	Jun 16	10:26	Jun 23	14:34	Jul 1	17:45	Jul 9	01:59
	Jul 15	18:15	Jul 23	07:03	Jul 31	05:55	Aug 7	06:51

Aug 14	03:52	Aug 22	00:42	Aug 29	16:50	Sep 5	11:42
Sep 12	16:13 A	Sep 20	18:39	Sep 28	02:57 p	Oct 4	18:05
Oct 12	07:32	Oct 20	12:03	Oct 27	12:42	Nov 3	03:28
Nov 11	01:16	Nov 19	04:01	Nov 25	22:32	Dec 2	16:47
Dec 10	20:14	Dec 18	17:45	Dec 25	08:55		

2035  
00h02m

						Jan 1	10:01
Jan 9	15:03	Jan 17	04:45	Jan 23	20:17	Jan 31	06:02
Feb 8	08:22	Feb 15	13:16	Feb 22	08:53 n	Mar 2	03:02
Mar 9	23:10 A	Mar 16	20:14	Mar 23	22:41	Mar 31	23:08
Apr 8	10:58	Apr 15	02:54	Apr 22	13:20	Apr 30	16:55
May 7	20:03	May 14	10:27	May 22	04:25	May 30	07:31
Jun 6	03:20	Jun 12	19:48	Jun 20	19:36	Jun 28	18:43
Jul 5	09:59	Jul 12	07:31	Jul 20	10:36	Jul 28	02:55
Aug 3	17:11	Aug 10	21:51	Aug 19	01:00 p	Aug 26	09:08
Sep 2	01:59 T	Sep 9	14:47	Sep 17	14:24	Sep 24	14:40
Oct 1	13:06	Oct 9	09:49	Oct 17	02:36	Oct 23	20:57
Oct 31	02:58	Nov 8	05:51	Nov 15	13:49	Nov 22	05:17
Nov 29	19:37	Dec 8	01:05	Dec 15	00:34	Dec 21	16:29
Dec 29	14:31						

Year	New Moon	First Quarter	Full Moon	Last Quarter
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2036  
00h02m

		Jan 6	17:47	Jan 13	11:16	Jan 20	06:47
Jan 28	10:17	Feb 5	07:00	Feb 11	22:08 t	Feb 18	23:48
Feb 27	05:00 P	Mar 5	16:48	Mar 12	09:09	Mar 19	18:40
Mar 27	20:58	Apr 4	00:02	Apr 10	20:22	Apr 18	14:08
Apr 26	09:34	May 3	05:54	May 10	08:09	May 18	08:41
May 25	19:17	Jun 1	11:34	Jun 8	21:01	Jun 17	01:04
Jun 24	03:10	Jun 30	18:13	Jul 8	11:19	Jul 16	14:40
Jul 23	10:17 P	Jul 30	02:56	Aug 7	02:49 t	Aug 15	01:36
Aug 21	17:35 P	Aug 28	14:43	Sep 5	18:46	Sep 13	10:29
Sep 20	01:51	Sep 27	06:12	Oct 5	10:16	Oct 12	18:09
Oct 19	11:49	Oct 27	01:13	Nov 4	00:45	Nov 11	01:29
Nov 18	00:14	Nov 25	22:27	Dec 3	14:09	Dec 10	09:19
Dec 17	15:34	Dec 25	19:43				

2037  
00h02m

				Jan 2	02:35	Jan 8	18:30
Jan 16	09:35 P	Jan 24	14:55	Jan 31	14:04 t	Feb 7	05:44
Feb 15	04:54	Feb 23	06:40	Mar 2	00:28	Mar 8	19:26
Mar 16	23:37	Mar 24	18:39	Mar 31	09:53	Apr 7	11:26
Apr 15	16:09	Apr 23	03:11	Apr 29	18:53	May 7	04:57
May 15	05:55	May 22	09:09	May 29	04:24	Jun 5	22:49
Jun 13	17:10	Jun 20	13:46	Jun 27	15:20	Jul 5	16:01
Jul 13	02:32 T	Jul 19	18:32	Jul 27	04:15 p	Aug 4	07:52
Aug 11	10:41	Aug 18	01:00	Aug 25	19:10	Sep 2	22:04
Sep 9	18:25	Sep 16	10:36	Sep 24	11:32	Oct 2	10:30
Oct 9	02:34	Oct 16	00:14	Oct 24	04:37	Oct 31	21:07
Nov 7	12:03	Nov 14	17:57	Nov 22	21:36	Nov 30	06:07
Dec 6	23:39	Dec 14	14:41	Dec 22	13:39	Dec 29	14:05

2038  
00h02m

Jan 5	13:42 A	Jan 13	12:34	Jan 21	04:01 n	Jan 27	22:01
Feb 4	05:53	Feb 12	09:31	Feb 19	16:10	Feb 26	06:57
Mar 5	23:16	Mar 14	03:42	Mar 21	02:10	Mar 27	17:37
Apr 4	16:44	Apr 12	18:02	Apr 19	10:36	Apr 26	06:15
May 4	09:20	May 12	04:17	May 18	18:23	May 25	20:43
Jun 3	00:24	Jun 10	11:11	Jun 17	02:29 n	Jun 24	12:39
Jul 2	13:31 A	Jul 9	16:00	Jul 16	11:47 n	Jul 24	05:40

Aug 1	00:39	Aug 7	20:21	Aug 14	22:55	Aug 22	23:13
Aug 30	10:11	Sep 6	01:50	Sep 13	12:23	Sep 21	16:27
Sep 28	18:56	Oct 5	09:52	Oct 13	04:21	Oct 21	08:23
Oct 28	03:52	Nov 3	21:23	Nov 11	22:28	Nov 19	22:10
Nov 26	13:47	Dec 3	12:45	Dec 11	17:31 n	Dec 19	09:29
Dec 26	01:03 T						

2039  
00h02m

Jan 2	07:37	Jan 10	11:46	Jan 17	18:42		
Jan 24	13:38	Feb 1	04:46	Feb 9	03:41	Feb 16	02:37
Feb 23	03:19	Mar 3	02:16	Mar 10	16:36	Mar 17	10:08
Mar 24	18:01	Apr 1	21:55	Apr 9	02:54	Apr 15	18:08
Apr 23	09:36	May 1	14:07	May 8	11:20	May 15	03:17
May 23	01:38	May 31	02:24	Jun 6	18:47 p	Jun 13	14:17
Jun 21	17:21 A	Jun 29	11:16	Jul 6	02:02	Jul 13	03:39
Jul 21	07:53	Jul 28	17:49	Aug 4	09:55	Aug 11	19:36
Aug 19	20:49	Aug 26	23:16	Sep 2	19:22	Sep 10	13:45
Sep 18	08:21	Sep 25	04:53	Oct 2	07:21	Oct 10	08:59
Oct 17	19:07	Oct 24	11:51	Oct 31	22:35	Nov 9	03:45
Nov 16	05:45	Nov 22	21:17	Nov 30	16:49 p	Dec 8	20:44
Dec 15	16:31 T	Dec 22	10:01	Dec 30	12:38		

2040  
00h02m

				Jan 7	11:05		
Jan 14	03:25	Jan 21	02:21	Jan 29	07:55	Feb 5	22:32
Feb 12	14:25	Feb 19	21:33	Feb 28	01:01	Mar 6	07:19
Mar 13	01:48	Mar 20	17:58	Mar 28	15:13	Apr 4	14:07
Apr 11	14:02	Apr 19	13:37	Apr 27	02:39	May 3	20:00
May 11	03:29 P	May 19	07:00	May 26	11:48 t	Jun 2	02:18
Jun 9	18:04	Jun 17	21:33	Jun 24	19:20	Jul 1	10:18
Jul 9	09:15	Jul 17	09:17	Jul 24	02:06	Jul 30	21:06
Aug 8	00:26	Aug 15	18:36	Aug 22	09:09	Aug 29	11:16
Sep 6	15:13	Sep 14	02:08	Sep 20	17:42	Sep 28	04:41
Oct 6	05:24	Oct 13	08:41	Oct 20	04:48	Oct 28	00:26
Nov 4	18:54 P	Nov 11	15:23	Nov 18	19:05 t	Nov 26	21:08
Dec 4	07:31	Dec 10	23:30	Dec 18	12:15	Dec 26	17:03

Year  
Delta T

New Moon      First Quarter      Full Moon      Last Quarter

2041  
00h02m

Jan 2	19:06	Jan 9	10:05	Jan 17	07:11	Jan 25	10:34
Feb 1	05:43	Feb 7	23:39	Feb 16	02:21	Feb 24	00:29
Mar 2	15:40	Mar 9	15:50	Mar 17	20:19	Mar 25	10:32
Apr 1	01:31	Apr 8	09:38	Apr 16	12:02	Apr 23	17:24
Apr 30	11:48 T	May 8	03:54	May 16	00:54 p	May 22	22:26
May 29	22:57	Jun 6	21:41	Jun 14	11:00	Jun 21	03:12
Jun 28	11:18	Jul 6	14:13	Jul 13	19:02	Jul 20	09:14
Jul 28	01:02	Aug 5	04:53	Aug 12	02:05	Aug 18	17:44
Aug 26	16:15	Sep 3	17:18	Sep 10	09:24	Sep 17	05:33
Sep 25	08:40	Oct 3	03:32	Oct 9	18:02	Oct 16	21:04
Oct 25	01:28 A	Nov 1	12:04	Nov 8	04:42 p	Nov 15	16:06
Nov 23	17:35	Nov 30	19:48	Dec 7	17:41	Dec 15	13:33
Dec 23	08:05	Dec 30	03:45				

2042  
00h02m

				Jan 6	08:52	Jan 14	11:25
Jan 21	20:41	Jan 28	12:48	Feb 5	01:56	Feb 13	07:17
Feb 20	07:39	Feb 26	23:29	Mar 6	20:09	Mar 14	23:21
Mar 21	17:24	Mar 28	11:59	Apr 5	14:16 n	Apr 13	11:09
Apr 20	02:20 T	Apr 27	02:19	May 5	06:49	May 12	19:17
May 19	10:56	May 26	18:18	Jun 3	20:49	Jun 11	01:00
Jun 17	19:49	Jun 25	11:29	Jul 3	08:10	Jul 10	05:38

Jul 17	05:52	Jul 25	05:01	Aug 1	17:34	Aug 8	10:36
Aug 15	18:01	Aug 23	21:55	Aug 31	02:03	Sep 6	17:10
Sep 14	08:49	Sep 22	13:20	Sep 29	10:35 n	Oct 6	02:36
Oct 14	02:02 A	Oct 22	02:52	Oct 28	19:48	Nov 4	15:52
Nov 12	20:28	Nov 20	14:30	Nov 27	06:05	Dec 4	09:19
Dec 12	14:29	Dec 20	00:26	Dec 26	17:41		

2043  
00h02m

						Jan 3	06:08
Jan 11	06:52	Jan 18	09:04	Jan 25	06:55	Feb 2	04:14
Feb 9	21:07	Feb 16	16:59	Feb 23	21:56	Mar 4	01:07
Mar 11	09:09	Mar 18	01:02	Mar 25	14:25 t	Apr 2	18:56
Apr 9	19:06 T	Apr 16	10:08	Apr 24	07:22	May 2	08:58
May 9	03:21	May 15	21:04	May 23	23:36	May 31	19:24
Jun 7	10:35	Jun 14	10:17	Jun 22	14:20	Jun 30	02:53
Jul 6	17:51	Jul 14	01:45	Jul 22	03:24	Jul 29	08:23
Aug 5	02:22	Aug 12	18:56	Aug 20	15:05	Aug 27	13:10
Sep 3	13:17	Sep 11	13:00	Sep 19	01:48 t	Sep 25	18:42
Oct 3	03:12 A	Oct 11	07:05	Oct 18	11:56	Oct 25	02:29
Nov 1	19:58	Nov 10	00:13	Nov 16	21:53	Nov 23	13:46
Dec 1	14:37	Dec 9	15:27	Dec 16	08:02	Dec 23	05:04
Dec 31	09:48						

2044  
00h02m

		Jan 8	04:01	Jan 14	18:51	Jan 21	23:46
Jan 30	04:04	Feb 6	13:45	Feb 13	06:41	Feb 20	20:19
Feb 28	20:12 A	Mar 6	21:16	Mar 13	19:40 t	Mar 21	16:53
Mar 29	09:26	Apr 5	03:44	Apr 12	09:38	Apr 20	11:49
Apr 27	19:42	May 4	10:27	May 12	00:16	May 20	04:03
May 27	03:39	Jun 2	18:32	Jun 10	15:15	Jun 18	17:00
Jun 25	10:24	Jul 2	04:47	Jul 10	06:22	Jul 18	02:47
Jul 24	17:10	Jul 31	17:39	Aug 8	21:14	Aug 16	10:03
Aug 23	01:05 T	Aug 30	09:18	Sep 7	11:25 t	Sep 14	15:58
Sep 21	11:02	Sep 29	03:30	Oct 7	00:30	Oct 13	21:52
Oct 20	23:35	Oct 28	23:27	Nov 5	12:27	Nov 12	05:10
Nov 19	14:57	Nov 27	19:36	Dec 4	23:34	Dec 11	14:52
Dec 19	08:53	Dec 27	13:59				

2045  
00h02m

				Jan 3	10:20	Jan 10	03:32
Jan 18	04:25	Jan 26	05:07	Feb 1	21:05	Feb 8	19:03
Feb 16	23:50 A	Feb 24	16:35	Mar 3	07:51 n	Mar 10	12:50
Mar 18	17:15	Mar 26	00:54	Apr 1	18:41	Apr 9	07:53
Apr 17	07:27	Apr 24	07:11	May 1	05:51	May 9	02:52
May 16	18:27	May 23	12:38	May 30	17:51	Jun 7	20:24
Jun 15	03:05	Jun 21	18:28	Jun 29	07:15	Jul 7	11:31
Jul 14	10:28	Jul 21	01:52	Jul 28	22:11	Aug 5	23:57
Aug 12	17:39 T	Aug 19	11:55	Aug 27	14:08 n	Sep 4	10:03
Sep 11	01:27	Sep 18	01:29	Sep 26	06:12	Oct 3	18:31
Oct 10	10:36	Oct 17	18:54	Oct 25	21:32	Nov 2	02:09
Nov 8	21:48	Nov 16	15:24	Nov 24	11:44	Dec 1	09:47
Dec 8	11:41	Dec 16	13:07	Dec 24	00:50	Dec 30	18:12

Year  
Delta T

New Moon      First Quarter      Full Moon      Last Quarter

2046  
00h02m

Jan 7	04:24	Jan 15	09:42	Jan 22	12:51 p	Jan 29	04:12
Feb 5	23:10 A	Feb 14	03:20	Feb 20	23:44	Feb 27	16:24
Mar 7	18:15	Mar 15	17:11	Mar 22	09:26	Mar 29	06:57
Apr 6	11:52	Apr 14	03:20	Apr 20	18:19	Apr 27	23:30
May 6	02:56	May 13	10:23	May 20	03:13	May 27	17:05
Jun 4	15:21	Jun 11	15:27	Jun 18	13:08	Jun 26	10:39



Jul 4	01:37	Jul 10	19:53	Jul 18	00:53 p	Jul 26	03:19
Aug 2	10:24 T	Aug 9	01:15	Aug 16	14:49	Aug 24	18:37
Aug 31	18:24	Sep 7	09:06	Sep 15	06:39	Sep 23	08:16
Sep 30	02:24	Oct 6	20:40	Oct 14	23:41	Oct 22	20:08
Oct 29	11:16	Nov 5	12:27	Nov 13	17:05	Nov 21	06:10
Nov 27	21:50	Dec 5	07:55	Dec 13	09:56	Dec 20	14:43
Dec 27	10:40						

2047  
00h02m

		Jan 4	05:30	Jan 12	01:22 t	Jan 18	22:33
Jan 26	01:45 P	Feb 3	03:09	Feb 10	14:40	Feb 17	06:43
Feb 24	18:27	Mar 4	22:52	Mar 12	01:37	Mar 18	16:11
Mar 26	11:45	Apr 3	15:11	Apr 10	10:35	Apr 17	03:30
Apr 25	04:40	May 3	03:25	May 9	18:23	May 16	16:44
May 24	20:26	Jun 1	11:53	Jun 8	02:03	Jun 15	07:44
Jun 23	10:34 P	Jun 30	17:35	Jul 7	10:32 t	Jul 15	00:09
Jul 22	22:47 P	Jul 29	22:02	Aug 5	20:37	Aug 13	17:35
Aug 21	09:14	Aug 28	02:49	Sep 4	08:53	Sep 12	11:19
Sep 19	18:30	Sep 26	09:28	Oct 3	23:41	Oct 12	04:22
Oct 19	03:27	Oct 25	19:12	Nov 2	16:58	Nov 10	19:39
Nov 17	12:58	Nov 24	08:40	Dec 2	11:55	Dec 10	08:28
Dec 16	23:38 P	Dec 24	01:50				

2048  
00h02m

				Jan 1	06:57 t	Jan 8	18:48
Jan 15	11:33	Jan 22	21:56	Jan 31	00:15	Feb 7	03:16
Feb 14	00:32	Feb 21	19:23	Feb 29	14:39	Mar 7	10:45
Mar 14	14:29	Mar 22	16:03	Mar 30	02:05	Apr 5	18:10
Apr 13	05:20	Apr 21	10:02	Apr 28	11:13	May 5	02:22
May 12	20:58	May 21	00:15	May 27	18:57	Jun 3	12:04
Jun 11	12:49 A	Jun 19	10:48	Jun 26	02:07 p	Jul 2	23:58
Jul 11	04:03	Jul 18	18:30	Jul 25	09:32	Aug 1	14:30
Aug 9	17:57	Aug 17	00:31	Aug 23	18:05	Aug 31	07:42
Sep 8	06:23	Sep 15	06:03	Sep 22	04:45	Sep 30	02:45
Oct 7	17:43	Oct 14	12:20	Oct 21	18:23	Oct 29	22:14
Nov 6	04:37	Nov 12	20:29	Nov 20	11:19	Nov 28	16:33
Dec 5	15:29 T	Dec 12	07:29	Dec 20	06:39 n	Dec 28	08:32

2049  
00h02m

Jan 4	02:24	Jan 10	21:55	Jan 19	02:29	Jan 26	21:33
Feb 2	13:16	Feb 9	15:38	Feb 17	20:48	Feb 25	07:36
Mar 4	00:13	Mar 11	11:25	Mar 19	12:25	Mar 26	15:10
Apr 2	11:41	Apr 10	07:27	Apr 18	01:06	Apr 24	21:12
May 2	00:13	May 10	01:57	May 17	11:15 n	May 24	02:54
May 31	14:01 A	Jun 8	17:56	Jun 15	19:27 n	Jun 22	09:41
Jun 30	04:50	Jul 8	07:10	Jul 15	02:29	Jul 21	18:48
Jul 29	20:06	Aug 6	17:51	Aug 13	09:18	Aug 20	07:10
Aug 28	11:17	Sep 5	02:27	Sep 11	17:02	Sep 18	23:02
Sep 27	02:03	Oct 4	09:38	Oct 11	02:51	Oct 18	17:54
Oct 26	16:12	Nov 2	16:18	Nov 9	15:36 n	Nov 17	14:32
Nov 25	05:33 H	Dec 1	23:39	Dec 9	07:27	Dec 17	11:15
Dec 24	17:50	Dec 31	08:52				

2050  
00h02m

				Jan 8	01:38	Jan 16	06:18
Jan 23	04:56	Jan 29	20:47	Feb 6	20:47	Feb 14	22:11
Feb 21	15:04	Feb 28	11:28	Mar 8	15:23	Mar 16	10:08
Mar 23	00:42	Mar 30	04:16	Apr 7	08:12	Apr 14	18:23
Apr 21	10:27	Apr 28	22:08	May 6	22:27 t	May 14	00:03
May 20	20:52 H	May 28	16:04	Jun 5	09:52	Jun 12	04:39
Jun 19	08:22	Jun 27	09:17	Jul 4	18:51	Jul 11	09:46
Jul 18	21:17	Jul 27	01:05	Aug 3	02:21	Aug 9	16:48
Aug 17	11:46	Aug 25	14:55	Sep 1	09:31	Sep 8	02:51

Sep 16 03:48	Sep 24 02:33	Sep 30 17:31	Oct 7 16:31
Oct 15 20:47	Oct 23 12:09	Oct 30 03:14 t	Nov 6 09:56
Nov 14 13:39 P	Nov 21 20:24	Nov 28 15:08	Dec 6 06:28
Dec 14 05:16	Dec 21 04:14	Dec 28 05:14	

Year Delta T	New Moon	First Quarter	Full Moon	Last Quarter
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2051 00h02m				Jan 5 04:29
	Jan 12 18:57	Jan 19 12:37	Jan 26 21:18	Feb 4 01:40
	Feb 11 06:41	Feb 17 22:16	Feb 25 14:52	Mar 5 19:47
	Mar 12 16:52	Mar 19 09:33	Mar 27 08:59	Apr 4 09:40
	Apr 11 01:59 P	Apr 17 22:37	Apr 26 02:18 t	May 3 19:29
	May 10 10:29	May 17 13:29	May 25 17:35	Jun 2 02:14
	Jun 8 18:56	Jun 16 05:55	Jun 24 06:15	Jul 1 07:14
	Jul 8 04:09	Jul 15 23:20	Jul 23 16:37	Jul 30 11:53
	Aug 6 15:04	Aug 14 16:48	Aug 22 01:36	Aug 28 17:30
	Sep 5 04:32	Sep 13 09:19	Sep 20 10:12	Sep 27 01:23
	Oct 4 20:46 P	Oct 13 00:11	Oct 19 19:13 t	Oct 26 12:39
	Nov 3 14:58	Nov 11 13:06	Nov 18 05:05	Nov 25 04:03
	Dec 3 09:36	Dec 11 00:06	Dec 17 16:04	Dec 24 23:21

2052 00h02m	Jan 2 03:05	Jan 9 09:26	Jan 16 04:23	Jan 23 21:03
	Jan 31 18:30	Feb 7 17:35	Feb 14 18:20	Feb 22 18:44
	Mar 1 07:36	Mar 8 01:17	Mar 15 09:54	Mar 23 14:09
	Mar 30 18:27 T	Apr 6 09:28	Apr 14 02:28 n	Apr 22 06:03
	Apr 29 03:20	May 5 19:04	May 13 18:59	May 21 18:15
	May 28 10:50	Jun 4 06:48	Jun 12 10:27	Jun 20 03:10
	Jun 26 17:50	Jul 3 20:58	Jul 12 00:24	Jul 19 09:38
	Jul 26 01:31	Aug 2 13:18	Aug 10 12:53	Aug 17 14:44
	Aug 24 11:06	Sep 1 07:09	Sep 9 00:16	Sep 15 19:49
	Sep 22 23:32 A	Oct 1 01:35	Oct 8 10:55 p	Oct 15 02:22
	Oct 22 15:02	Oct 30 19:39	Nov 6 21:08	Nov 13 11:50
	Nov 21 09:01	Nov 29 12:16	Dec 6 07:17	Dec 13 01:06
	Dec 21 04:14	Dec 29 02:27		

2053 00h02m			Jan 4 17:45	Jan 11 18:08
	Jan 19 23:11	Jan 27 13:40	Feb 3 04:57	Feb 10 13:48
	Feb 18 16:31	Feb 25 22:08	Mar 4 17:09 n	Mar 12 10:21
	Mar 20 07:12 A	Mar 27 04:49	Apr 3 06:22	Apr 11 06:06
	Apr 18 18:49	Apr 25 11:02	May 2 20:24	May 10 23:41
	May 18 03:43	May 24 18:04	Jun 1 11:02	Jun 9 14:21
	Jun 16 10:51	Jun 23 02:54	Jul 1 02:01	Jul 9 01:48
	Jul 15 17:27	Jul 22 14:15	Jul 30 17:06	Aug 7 10:25
	Aug 14 00:41	Aug 21 04:26	Aug 29 07:53 n	Sep 5 17:05
	Sep 12 09:35 T	Sep 19 21:29	Sep 27 21:50	Oct 4 23:01
	Oct 11 20:53	Oct 19 16:54	Oct 27 10:38	Nov 3 05:37
	Nov 10 10:54	Nov 18 13:26	Nov 25 22:21	Dec 2 14:04
	Dec 10 03:40	Dec 18 09:10	Dec 25 09:23	

2054 00h02m				Jan 1 01:11
	Jan 8 22:33	Jan 17 02:13	Jan 23 20:07	Jan 30 15:08
	Feb 7 18:13	Feb 15 15:34	Feb 22 06:46 t	Mar 1 07:36
	Mar 9 12:46 P	Mar 17 01:19	Mar 23 17:20	Mar 31 01:51
	Apr 8 04:33	Apr 15 08:22	Apr 22 04:00	Apr 29 20:47
	May 7 17:01	May 14 13:56	May 21 15:15	May 29 15:04
	Jun 6 02:40	Jun 12 19:16	Jun 20 03:41	Jun 28 07:30
	Jul 5 10:33	Jul 12 01:36	Jul 19 17:46	Jul 27 21:28
	Aug 3 17:47 P	Aug 10 10:05	Aug 18 09:21 t	Aug 26 08:56

Sep 2	01:17	P	Sep 8	21:46	Sep 17	01:41	Sep 24	18:26
Oct 1	09:49	Oct 8	13:19	Oct 16	17:45	Oct 24	02:39	
Oct 30	20:01	Nov 7	08:33	Nov 15	08:50	Nov 22	10:23	
Nov 29	08:33	Dec 7	06:06	Dec 14	22:41	Dec 21	18:22	
Dec 28	23:52							

2055			Jan 6	03:38	Jan 13	11:22	Jan 20	03:25	
00h02m									
Jan 27	17:40	P	Feb 4	22:59	Feb 11	22:48	t	Feb 18	14:15
Feb 26	12:39	Mar 6	14:47	Mar 13	08:56	Mar 20	03:19		
Mar 28	07:01	Apr 5	02:42	Apr 11	17:57	Apr 18	18:36		
Apr 26	23:17	May 4	11:09	May 11	02:30	May 18	11:29		
May 26	12:57	Jun 2	17:00	Jun 9	11:34	Jun 17	05:02		
Jun 25	00:15	Jul 1	21:31	Jul 8	22:10	Jul 16	22:15		
Jul 24	09:47	T	Jul 31	02:11	Aug 7	10:57	p	Aug 15	14:27
Aug 22	18:14	Aug 29	08:36	Sep 6	01:57	Sep 14	05:15		
Sep 21	02:19	Sep 27	18:10	Oct 5	18:39	Oct 13	18:23		
Oct 20	10:49	Oct 27	07:52	Nov 4	12:13	Nov 12	05:39		
Nov 18	20:34	Nov 26	01:40	Dec 4	05:41	Dec 11	15:05		
Dec 18	08:16	Dec 25	22:28						

Year	New Moon	First Quarter	Full Moon	Last Quarter
Delta T				

2056			Jan 2	22:06	Jan 9	23:14			
00h02m									
Jan 16	22:11	A	Jan 24	20:20	Feb 1	12:36	n	Feb 8	07:01
Feb 15	14:00	Feb 23	17:12	Mar 2	00:40	Mar 8	15:31		
Mar 16	06:53	Mar 24	11:17	Mar 31	10:24	Apr 7	01:33		
Apr 14	23:50	Apr 23	01:33	Apr 29	18:30	May 6	13:30		
May 14	16:06	May 22	11:49	May 29	01:57	Jun 5	03:21		
Jun 13	07:03	Jun 20	18:48	Jun 27	09:47	n	Jul 4	18:55	
Jul 12	20:19	A	Jul 19	23:44	Jul 26	18:53	n	Aug 3	11:53
Aug 11	07:47	Aug 18	04:13	Aug 25	06:00	Sep 2	05:44		
Sep 9	17:46	Sep 16	09:50	Sep 23	19:34	Oct 1	23:34		
Oct 9	02:59	Oct 15	17:58	Oct 23	11:46	Oct 31	16:12		
Nov 7	12:20	Nov 14	05:33	Nov 22	06:12	Nov 30	06:37		
Dec 6	22:31	Dec 13	20:53	Dec 22	01:35	n	Dec 29	18:22	

2057	Jan 5	09:50	T	Jan 12	15:34	Jan 20	20:02	Jan 28	03:43
00h02m									
Feb 3	22:12	Feb 11	12:26	Feb 19	11:58	Feb 26	11:30		
Mar 5	11:26	Mar 13	09:36	Mar 21	00:46	Mar 27	18:39		
Apr 4	01:33	Apr 12	04:59	Apr 19	10:50	Apr 26	02:06		
May 3	16:33	May 11	21:06	May 18	19:02	May 25	10:41		
Jun 2	08:11	Jun 10	09:29	Jun 17	02:18	p	Jun 23	21:08	
Jul 1	23:47	A	Jul 9	18:36	Jul 16	09:27	Jul 23	10:09	
Jul 31	14:31	Aug 8	01:29	Aug 14	17:20	Aug 22	02:02		
Aug 30	03:53	Sep 6	07:18	Sep 13	02:51	Sep 20	20:25		
Sep 28	15:58	Oct 5	13:13	Oct 12	14:59	Oct 20	16:08		
Oct 28	03:17	Nov 3	20:24	Nov 11	06:23	Nov 19	11:31		
Nov 26	14:21	Dec 3	05:54	Dec 11	00:46	p	Dec 19	05:02	
Dec 26	01:22	T							

2058			Jan 1	18:31	Jan 9	20:39	Jan 17	19:44	
00h02m									
Jan 24	12:15	Jan 31	10:29	Feb 8	15:55	Feb 16	07:17		
Feb 22	22:58	Mar 2	05:10	Mar 10	08:54	Mar 17	15:57		
Mar 24	09:52	Apr 1	01:03	Apr 8	22:57	Apr 15	22:28		
Apr 22	21:31	Apr 30	20:17	May 8	10:13	May 15	03:58		
May 22	10:25	P	May 30	13:32	Jun 6	19:16	t	Jun 13	09:51
Jun 21	00:36	P	Jun 29	04:13	Jul 6	02:47	Jul 12	17:28	
Jul 20	15:40	Jul 28	16:19	Aug 4	09:37	Aug 11	04:00		

Aug 19	07:02	Aug 27	02:10	Sep 2	16:50	Sep 9	18:06
Sep 17	22:16	Sep 25	10:14	Oct 2	01:35	Oct 9	11:40
Oct 17	13:03	Oct 24	17:16	Oct 31	12:53	Nov 8	07:46
Nov 16	03:07 P	Nov 23	00:16	Nov 30	03:16 t	Dec 8	04:52
Dec 15	16:10	Dec 22	08:27	Dec 29	20:25		

2059  
00h02m

						Jan 7	01:08
Jan 14	03:56	Jan 20	18:51	Jan 28	15:11	Feb 5	18:50
Feb 12	14:27	Feb 19	07:57	Feb 27	10:05	Mar 7	08:48
Mar 14	00:06	Mar 20	23:29	Mar 29	03:48	Apr 5	18:46
Apr 12	09:30	Apr 19	16:36	Apr 27	19:18	May 5	01:29
May 11	19:16 T	May 19	10:21	May 27	08:04 p	Jun 3	06:19
Jun 10	05:58	Jun 18	03:55	Jun 25	18:13	Jul 2	10:53
Jul 9	17:59	Jul 17	20:35	Jul 25	02:24	Jul 31	16:43
Aug 8	07:37	Aug 16	11:41	Aug 23	09:43	Aug 30	01:06
Sep 6	23:00	Sep 15	00:44	Sep 21	17:19	Sep 28	12:54
Oct 6	15:49	Oct 14	11:38	Oct 21	02:15	Oct 28	04:32
Nov 5	09:10 A	Nov 12	20:44	Nov 19	13:09 p	Nov 26	23:43
Dec 5	01:48	Dec 12	04:50	Dec 19	02:11	Dec 26	21:19

2060  
00h02m

Jan 3	16:39	Jan 10	12:52	Jan 17	17:13	Jan 25	19:15
Feb 2	05:22	Feb 8	21:41	Feb 16	09:56	Feb 24	15:07
Mar 2	16:12	Mar 9	07:52	Mar 17	03:40	Mar 25	07:09
Apr 1	01:38	Apr 7	19:42	Apr 15	21:21 n	Apr 23	18:53
Apr 30	10:12 T	May 7	09:19	May 15	13:40	May 23	03:00
May 29	18:24	Jun 6	00:44	Jun 14	03:38	Jun 21	08:44
Jun 28	02:58	Jul 5	17:38	Jul 13	15:09	Jul 20	13:24
Jul 27	12:49	Aug 4	11:15	Aug 12	00:52	Aug 18	18:24
Aug 26	00:55	Sep 3	04:35	Sep 10	09:45	Sep 17	01:02
Sep 24	15:53	Oct 2	20:40	Oct 9	18:42 n	Oct 16	10:31
Oct 24	09:25 A	Nov 1	10:56	Nov 8	04:17 n	Nov 14	23:49
Nov 23	04:15	Nov 30	23:10	Dec 7	14:48	Dec 14	17:15
Dec 22	22:39	Dec 30	09:28				

Year            New Moon            First Quarter            Full Moon            Last Quarter  
Delta T

2061  
00h02m

				Jan 6	02:24	Jan 13	13:57
Jan 21	15:16	Jan 28	18:09	Feb 4	15:22	Feb 12	11:52
Feb 20	05:31	Feb 27	01:51	Mar 6	05:54	Mar 14	08:31
Mar 21	17:24	Mar 28	09:27	Apr 4	21:47 t	Apr 13	02:11
Apr 20	03:06 T	Apr 26	17:55	May 4	14:13	May 12	16:11
May 19	11:03	May 26	04:12	Jun 3	06:10	Jun 11	02:43
Jun 17	18:04	Jun 24	16:53	Jul 2	20:53	Jul 10	10:24
Jul 17	01:11	Jul 24	08:04	Aug 1	10:12	Aug 8	16:10
Aug 15	09:39	Aug 23	01:17	Aug 30	22:19	Sep 6	21:13
Sep 13	20:36	Sep 21	19:44	Sep 29	09:33 t	Oct 6	02:58
Oct 13	10:41 A	Oct 21	14:24	Oct 28	20:12	Nov 4	10:53
Nov 12	03:40	Nov 20	08:12	Nov 27	06:32	Dec 3	22:12
Dec 11	22:32	Dec 19	23:58	Dec 26	16:53		

2062  
00h02m

						Jan 2	13:21
Jan 10	17:52	Jan 18	12:50	Jan 25	03:37	Feb 1	07:43
Feb 9	12:11	Feb 16	22:37	Feb 23	15:08	Mar 3	03:49
Mar 11	04:14 P	Mar 18	05:57	Mar 25	03:35 t	Apr 1	23:56
Apr 9	17:18	Apr 16	12:03	Apr 23	16:56	May 1	18:35
May 9	03:23	May 15	18:17	May 23	07:02	May 31	10:45
Jun 7	11:12	Jun 14	01:52	Jun 21	21:43	Jun 29	23:55
Jul 6	17:53	Jul 13	11:42	Jul 21	12:47	Jul 29	10:04

Aug 5	00:40	Aug 12	00:19	Aug 20	03:55	Aug 27	17:48
Sep 3	08:41 P	Sep 10	15:58	Sep 18	18:36 t	Sep 26	00:11
Oct 2	18:48	Oct 10	10:26	Oct 18	08:18	Oct 25	06:28
Nov 1	07:32	Nov 9	06:50	Nov 16	20:48	Nov 23	13:58
Nov 30	23:00	Dec 9	03:28	Dec 16	08:18	Dec 22	23:41
Dec 30	16:57						

2063  
00h02m

Jan 7	22:15	Jan 14	19:12	Jan 21	12:05		
Jan 29	12:23	Feb 6	13:36	Feb 13	05:48	Feb 20	03:07
Feb 28	07:38 A	Mar 8	01:05	Mar 14	16:13 p	Mar 21	20:16
Mar 30	00:50	Apr 6	09:16	Apr 13	02:33	Apr 20	14:43
Apr 28	14:53	May 5	15:18	May 12	13:10	May 20	09:17
May 28	01:47	Jun 3	20:28	Jun 11	00:42	Jun 19	02:44
Jun 26	10:25	Jul 3	02:01	Jul 10	13:47	Jul 18	18:06
Jul 25	17:55	Aug 1	09:10	Aug 9	04:40	Aug 17	07:01
Aug 24	01:17 T	Aug 30	19:04	Sep 7	20:53 n	Sep 15	17:44
Sep 22	09:21	Sep 29	08:38	Oct 7	13:27	Oct 15	02:49
Oct 21	18:45	Oct 29	02:12	Nov 6	05:23	Nov 13	10:56
Nov 20	06:08	Nov 27	22:57	Dec 5	20:06	Dec 12	18:50
Dec 19	20:03	Dec 27	20:55				

2064  
00h02m

		Jan 4	09:31	Jan 11	03:14		
Jan 18	12:37	Jan 26	17:41	Feb 2	21:37 p	Feb 9	12:56
Feb 17	07:03 A	Feb 25	11:22	Mar 3	08:18	Mar 10	00:33
Mar 18	01:45	Mar 26	01:12	Apr 1	17:39	Apr 8	14:25
Apr 16	19:02	Apr 24	11:16	May 1	02:06	May 8	06:16
May 16	09:55	May 23	18:15	May 30	10:35	Jun 6	23:23
Jun 14	22:20	Jun 21	23:14	Jun 28	20:08	Jul 6	16:48
Jul 14	08:45	Jul 21	03:36	Jul 28	07:40 p	Aug 5	09:42
Aug 12	17:48 T	Aug 19	08:55	Aug 26	21:35	Sep 4	01:30
Sep 11	02:10	Sep 17	16:45	Sep 25	13:39	Oct 3	15:51
Oct 10	10:33	Oct 17	04:21	Oct 25	07:06	Nov 2	04:24
Nov 8	19:44	Nov 15	20:12	Nov 24	00:59	Dec 1	14:59
Dec 8	06:28	Dec 15	15:43	Dec 23	18:14	Dec 30	23:49

2065  
00h02m

Jan 6	19:15	Jan 14	13:17	Jan 22	09:53 t	Jan 29	07:38
Feb 5	10:03 P	Feb 13	10:50	Feb 20	23:11	Feb 27	15:29
Mar 7	02:16	Mar 15	06:25	Mar 22	09:56	Mar 29	00:24
Apr 5	19:01	Apr 13	22:38	Apr 20	18:35	Apr 27	11:02
May 5	11:30	May 13	10:52	May 20	02:04	May 26	23:37
Jun 4	03:04	Jun 11	19:24	Jun 18	09:27	Jun 25	14:08
Jul 3	17:14 P	Jul 11	01:15	Jul 17	17:44 t	Jul 25	06:22
Aug 2	05:44 P	Aug 9	05:52	Aug 16	03:44	Aug 23	23:57
Aug 31	16:37	Sep 7	10:49	Sep 14	16:03	Sep 22	18:10
Sep 30	02:22	Oct 6	17:36	Oct 14	07:03	Oct 22	11:53
Oct 29	11:47	Nov 5	03:26	Nov 13	00:37	Nov 21	03:51
Nov 27	21:39	Dec 4	16:53	Dec 12	19:52	Dec 20	17:11
Dec 27	08:27 P						

Year  
Delta T

New Moon      First Quarter      Full Moon      Last Quarter

2066  
00h03m

		Jan 3	09:55	Jan 11	15:07 t	Jan 19	03:47
Jan 25	20:14	Feb 2	05:44	Feb 10	08:29	Feb 17	12:13
Feb 24	08:52	Mar 4	02:49	Mar 11	22:49	Mar 18	19:25
Mar 25	22:15	Apr 2	23:09	Apr 10	10:04	Apr 17	02:23
Apr 24	12:30	May 2	16:57	May 9	18:58	May 16	10:01
May 24	03:38	Jun 1	07:12	Jun 8	02:30	Jun 14	19:10
Jun 22	19:15 A	Jun 30	17:58	Jul 7	09:33 p	Jul 14	06:38

Jul 22	10:32	Jul 30	02:00	Aug 5	16:58	Aug 12	20:59
Aug 21	00:48	Aug 28	08:24	Sep 4	01:35	Sep 11	14:16
Sep 19	13:45	Sep 26	14:19	Oct 3	12:23	Oct 11	09:42
Oct 19	01:41	Oct 25	20:52	Nov 2	02:11	Nov 10	05:45
Nov 17	13:04	Nov 24	05:10	Dec 1	19:15	Dec 10	00:38
Dec 17	00:16 T	Dec 23	16:06	Dec 31	14:40 n		

2067  
00h03m

						Jan 8	17:00
Jan 15	11:16	Jan 22	06:16	Jan 30	10:29	Feb 7	06:13
Feb 13	21:57	Feb 20	23:29	Mar 1	04:42	Mar 8	16:14
Mar 15	08:29	Mar 22	18:42	Mar 30	20:09	Apr 6	23:37
Apr 13	19:24	Apr 21	14:13	Apr 29	08:40	May 6	05:18
May 13	07:21	May 21	08:27	May 28	18:42 n	Jun 4	10:38
Jun 11	20:41 A	Jun 20	00:28	Jun 27	02:52 n	Jul 3	17:02
Jul 11	11:16	Jul 19	13:59	Jul 26	09:58	Aug 2	01:51
Aug 10	02:36	Aug 18	01:09	Aug 24	16:57	Aug 31	14:04
Sep 8	18:08	Sep 16	10:19	Sep 23	00:53	Sep 30	06:00
Oct 8	09:27	Oct 15	18:02	Oct 22	10:54	Oct 30	01:07
Nov 7	00:12	Nov 14	01:07	Nov 20	23:48 n	Nov 28	22:07
Dec 6	14:03 A	Dec 13	08:38	Dec 20	15:41	Dec 28	19:11

2068  
00h03m

Jan 5	02:37	Jan 11	17:46	Jan 19	09:44	Jan 27	14:28
Feb 3	13:43	Feb 10	05:19	Feb 18	04:37	Feb 26	06:25
Mar 3	23:37	Mar 10	19:25	Mar 18	22:55	Mar 26	18:20
Apr 2	08:52	Apr 9	11:31	Apr 17	15:29	Apr 25	02:29
May 1	18:07	May 9	04:45	May 17	05:35 p	May 24	07:59
May 31	04:04 H	Jun 7	22:20	Jun 15	17:00	Jun 22	12:25
Jun 29	15:12	Jul 7	15:31	Jul 15	02:08	Jul 21	17:21
Jul 29	03:55	Aug 6	07:38	Aug 13	09:51	Aug 20	00:17
Aug 27	18:27	Sep 4	22:03	Sep 11	17:19	Sep 18	10:16
Sep 26	10:47	Oct 4	10:22	Oct 11	01:39	Oct 18	00:00
Oct 26	04:15	Nov 2	20:37	Nov 9	11:39 t	Nov 16	17:32
Nov 24	21:41 P	Dec 2	05:20	Dec 8	23:41	Dec 16	14:12
Dec 24	13:43	Dec 31	13:22				

2069  
00h03m

				Jan 7	13:42	Jan 15	12:17
Jan 23	03:35	Jan 29	21:39	Feb 6	05:28	Feb 14	09:28
Feb 21	15:16	Feb 28	06:53	Mar 7	22:34	Mar 16	03:31
Mar 23	01:13	Mar 29	17:34	Apr 6	16:12	Apr 14	17:21
Apr 21	09:59 P	Apr 28	05:55	May 6	09:10 t	May 14	03:08
May 20	18:06 P	May 27	20:08	Jun 5	00:20	Jun 12	09:55
Jun 19	02:14	Jun 26	12:09	Jul 4	13:06	Jul 11	14:59
Jul 18	11:13	Jul 26	05:30	Aug 2	23:45	Aug 9	19:41
Aug 16	22:02	Aug 24	23:16	Sep 1	09:07	Sep 8	01:23
Sep 15	11:34	Sep 23	16:22	Sep 30	18:10	Oct 7	09:21
Oct 15	04:02 P	Oct 23	07:56	Oct 30	03:35 t	Nov 5	20:40
Nov 13	22:37	Nov 21	21:31	Nov 28	13:46	Dec 5	12:04
Dec 13	17:37	Dec 21	08:59	Dec 28	00:50		

2070  
00h03m

						Jan 4	07:16
Jan 12	11:23	Jan 19	18:31	Jan 26	12:59	Feb 3	04:46
Feb 11	02:53	Feb 18	02:33	Feb 25	02:31	Mar 5	02:11
Mar 12	15:52	Mar 19	09:53	Mar 26	17:30	Apr 3	21:23
Apr 11	02:30 T	Apr 17	17:31	Apr 25	09:30 n	May 3	13:11
May 10	11:08	May 17	02:29	May 25	01:37	Jun 2	01:26
Jun 8	18:23	Jun 15	13:38	Jun 23	16:56	Jul 1	10:33
Jul 8	01:14	Jul 15	03:24	Jul 23	07:02	Jul 30	17:17
Aug 6	08:50	Aug 13	19:38	Aug 21	19:54	Aug 28	22:42
Sep 4	18:27	Sep 12	13:42	Sep 20	07:48	Sep 27	04:03

Oct 4	07:00	A	Oct 12	08:39	Oct 19	18:59	p	Oct 26	10:48
Nov 2	22:42	Nov 11	03:20	Nov 18	05:40	Nov 24	20:20	Nov 24	20:20
Dec 2	16:54	Dec 10	20:33	Dec 17	16:06	Dec 24	09:31	Dec 24	09:31

Year Delta T	New Moon	First Quarter	Full Moon	Last Quarter
2071 00h03m	Jan 1 12:15	Jan 9 11:08	Jan 16 02:35	Jan 23 02:16
	Jan 31 07:16	Feb 7 22:30	Feb 14 13:33	Feb 21 21:29
	Mar 2 00:32	Mar 9 06:53	Mar 16 01:17 n	Mar 23 17:33
	Mar 31 15:04 A	Apr 7 13:17	Apr 14 13:55	Apr 22 12:54
	Apr 30 02:31	May 6 19:04	May 14 03:23	May 22 06:20
	May 29 11:16	Jun 5 01:37	Jun 12 17:35	Jun 20 21:05
	Jun 27 18:20	Jul 4 10:01	Jul 12 08:25	Jul 20 08:52
	Jul 27 00:56	Aug 2 21:03	Aug 10 23:39	Aug 18 17:57
	Aug 25 08:16	Sep 1 11:08	Sep 9 14:51 n	Sep 17 01:07
	Sep 23 17:20 T	Oct 1 04:20	Oct 9 05:24	Oct 16 07:30
	Oct 23 04:49	Oct 31 00:07	Nov 7 18:47	Nov 14 14:24
	Nov 21 18:59	Nov 29 21:06	Dec 7 06:57	Dec 13 22:57
	Dec 21 11:46	Dec 29 17:16		

2072 00h03m			Jan 5 18:13	Jan 12 09:54
	Jan 20 06:35	Jan 28 10:35	Feb 4 04:55	Feb 10 23:27
	Feb 19 02:03	Feb 27 00:01	Mar 4 15:17 t	Mar 11 15:19
	Mar 19 20:22 P	Mar 27 09:41	Apr 3 01:24	Apr 10 08:55
	Apr 18 11:58	Apr 25 16:33	May 2 11:33	May 10 03:19
	May 18 00:19	May 24 21:53	May 31 22:17	Jun 8 21:21
	Jun 16 09:57	Jun 23 02:57	Jun 30 10:21	Jul 8 13:54
	Jul 15 17:56	Jul 22 09:02	Jul 30 00:16	Aug 7 04:16
	Aug 14 01:21	Aug 20 17:21	Aug 28 16:00 t	Sep 5 16:20
	Sep 12 09:06 T	Sep 19 04:58	Sep 27 08:44	Oct 5 02:28
	Oct 11 17:55	Oct 18 20:36	Oct 27 01:22	Nov 3 11:16
	Nov 10 04:21	Nov 17 16:03	Nov 25 17:00	Dec 2 19:22
	Dec 9 16:59	Dec 17 13:49	Dec 25 07:16	

2073 00h03m				Jan 1 03:28
	Jan 8 08:11	Jan 16 11:32	Jan 23 20:06	Jan 30 12:19
	Feb 7 01:41 P	Feb 15 06:57	Feb 22 07:26 t	Feb 28 22:41
	Mar 8 20:16	Mar 16 22:43	Mar 23 17:17	Mar 30 11:05
	Apr 7 14:15	Apr 15 10:35	Apr 22 01:54	Apr 29 01:39
	May 7 06:16	May 14 18:59	May 21 10:02	May 28 17:57
	Jun 5 19:51	Jun 13 00:47	Jun 19 18:44	Jun 27 11:12
	Jul 5 07:16	Jul 12 05:16	Jul 19 05:03	Jul 27 04:29
	Aug 3 17:03 T	Aug 10 09:55	Aug 17 17:44 t	Aug 25 21:06
	Sep 2 01:51	Sep 8 16:19	Sep 16 08:52	Sep 24 12:32
	Oct 1 10:20	Oct 8 01:55	Oct 16 01:54	Oct 24 02:23
	Oct 30 19:12	Nov 6 15:40	Nov 14 19:55	Nov 22 14:15
	Nov 29 05:12	Dec 6 09:31	Dec 14 13:50	Dec 22 00:06
	Dec 28 16:56			

2074 00h03m		Jan 5 06:17	Jan 13 06:32	Jan 20 08:21
	Jan 27 06:39 A	Feb 4 04:02	Feb 11 21:06 n	Feb 18 15:56
	Feb 25 22:02	Mar 6 00:44	Mar 13 09:02	Mar 19 23:59
	Mar 27 14:21	Apr 4 18:41	Apr 11 18:31	Apr 18 09:23
	Apr 26 06:49	May 4 08:54	May 11 02:18	May 17 20:39
	May 25 22:44	Jun 2 19:14	Jun 9 09:27	Jun 16 09:56
	Jun 24 13:38	Jul 2 02:22	Jul 8 17:04 n	Jul 16 01:11
	Jul 24 03:06 A	Jul 31 07:30	Aug 7 02:04 n	Aug 14 18:10
	Aug 22 14:58	Aug 29 12:11	Sep 5 13:11	Sep 13 12:22

Sep 21	01:27	Sep 27	17:59	Oct 5	02:54	Oct 13	06:47
Oct 20	11:10	Oct 27	02:14	Nov 3	19:21	Nov 12	00:07
Nov 18	20:55	Nov 25	13:51	Dec 3	14:03	Dec 11	15:07
Dec 18	07:20	Dec 25	05:06				

2075  
00h03m

				Jan 2	09:39 n	Jan 10	03:14
Jan 16	18:37 T	Jan 23	23:32	Feb 1	04:13	Feb 8	12:41
Feb 15	06:42	Feb 22	20:00	Mar 2	20:07	Mar 9	20:17
Mar 16	19:26	Mar 24	16:46	Apr 1	08:46	Apr 8	03:03
Apr 15	08:57	Apr 23	11:53	Apr 30	18:38	May 7	10:00
May 14	23:23	May 23	03:56	May 30	02:39	Jun 5	18:01
Jun 13	14:39	Jun 21	16:28	Jun 28	09:46 p	Jul 5	04:00
Jul 13	06:11 A	Jul 21	01:55	Jul 27	16:53	Aug 3	16:43
Aug 11	21:10	Aug 19	09:12	Aug 26	00:50	Sep 2	08:34
Sep 10	11:01	Sep 17	15:25	Sep 24	10:29	Oct 2	03:13
Oct 9	23:41	Oct 16	21:42	Oct 23	22:47	Oct 31	23:25
Nov 8	11:34	Nov 15	05:06	Nov 22	14:20	Nov 30	19:22
Dec 7	23:02	Dec 14	14:38	Dec 22	08:47 p	Dec 30	13:20

Year	New Moon	First Quarter	Full Moon	Last Quarter
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2076  
00h03m

Jan 6	10:14 T	Jan 13	03:02	Jan 21	04:39	Jan 29	04:18
Feb 4	21:02	Feb 11	18:35	Feb 19	23:49	Feb 27	15:54
Mar 5	07:25	Mar 12	12:41	Mar 20	16:38	Mar 28	00:26
Apr 3	17:49	Apr 11	07:59	Apr 19	06:31	Apr 26	06:41
May 3	04:54	May 11	02:50	May 18	17:40	May 25	11:52
Jun 1	17:16 P	Jun 9	19:58	Jun 17	02:39 t	Jun 23	17:23
Jul 1	07:06 P	Jul 9	10:50	Jul 16	10:13	Jul 23	00:41
Jul 30	22:06	Aug 7	23:22	Aug 14	17:12	Aug 21	11:01
Aug 29	13:43	Sep 6	09:47	Sep 13	00:38	Sep 20	01:06
Sep 28	05:26	Oct 5	18:26	Oct 12	09:36	Oct 19	18:50
Oct 27	20:49	Nov 4	01:57	Nov 10	21:06	Nov 18	15:14
Nov 26	11:26 P	Dec 3	09:15	Dec 10	11:33 t	Dec 18	12:40
Dec 26	00:51						

2077  
00h03m

		Jan 1	17:27	Jan 9	04:36	Jan 17	09:10
Jan 24	12:44	Jan 31	03:35	Feb 7	23:07	Feb 16	02:59
Feb 22	23:07	Mar 1	16:10	Mar 9	17:42	Mar 17	16:56
Mar 24	08:25	Mar 31	07:01	Apr 8	11:06	Apr 16	02:50
Apr 22	17:22	Apr 29	23:28	May 8	02:24	May 15	09:26
May 22	02:39 T	May 29	16:43	Jun 6	15:08 p	Jun 13	14:08
Jun 20	12:56	Jun 28	10:06	Jul 6	01:23	Jul 12	18:34
Jul 20	00:42	Jul 28	02:56	Aug 4	09:48	Aug 11	00:17
Aug 18	14:18	Aug 26	18:31	Sep 2	17:24	Sep 9	08:37
Sep 17	05:53	Sep 25	08:15	Oct 2	01:21	Oct 8	20:26
Oct 16	23:06	Oct 24	19:50	Oct 31	10:36	Nov 7	12:09
Nov 15	16:59 A	Nov 23	05:30	Nov 29	21:42 p	Dec 7	07:26
Dec 15	10:05	Dec 22	13:55	Dec 29	10:44		

2078  
00h03m

						Jan 6	05:06
Jan 14	01:13	Jan 20	21:58	Jan 28	01:32	Feb 5	03:01
Feb 12	13:58	Feb 19	06:31	Feb 26	17:49	Mar 6	22:48
Mar 14	00:38	Mar 20	16:10	Mar 28	11:03	Apr 5	14:45
Apr 12	09:45	Apr 19	03:19	Apr 27	04:18 n	May 5	02:28
May 11	17:57 T	May 18	16:15	May 26	20:23	Jun 3	10:37
Jun 10	01:49	Jun 17	07:08	Jun 25	10:22	Jul 2	16:25
Jul 9	10:09	Jul 16	23:47	Jul 24	22:08	Jul 31	21:11
Aug 7	19:52	Aug 15	17:33	Aug 23	08:13	Aug 30	02:18



Sep 6	07:58	Sep 14	11:21	Sep 21	17:32	Sep 28	09:02
Oct 5	23:05	Oct 14	04:07	Oct 21	02:56 n	Oct 27	18:35
Nov 4	16:56 A	Nov 12	19:04	Nov 19	12:53 n	Nov 26	07:55
Dec 4	12:08	Dec 12	07:52	Dec 18	23:34	Dec 26	01:17

2079 00h03m	Jan 3	06:50	Jan 10	18:28	Jan 17	11:06	Jan 24	21:47
	Feb 1	23:35	Feb 9	03:11	Feb 15	23:44	Feb 23	19:23
	Mar 3	13:49	Mar 10	10:37	Mar 17	13:45	Mar 25	15:46
	Apr 2	01:30	Apr 8	17:44	Apr 16	05:02 p	Apr 24	09:15
	May 1	10:57 T	May 8	01:37	May 15	20:58	May 23	23:15
	May 30	18:41	Jun 6	11:18	Jun 14	12:39	Jun 22	09:56
	Jun 29	01:31	Jul 5	23:30	Jul 14	03:24	Jul 21	17:54
	Jul 28	08:33	Aug 4	14:26	Aug 12	17:01	Aug 20	00:00
	Aug 26	17:02	Sep 3	07:44	Sep 11	05:37	Sep 18	05:23
	Sep 25	04:05	Oct 3	02:35	Oct 10	17:24 t	Oct 17	11:23
	Oct 24	18:19 A	Nov 1	21:50	Nov 9	04:34	Nov 15	19:27
	Nov 23	11:30	Dec 1	16:14	Dec 8	15:16	Dec 15	06:44
	Dec 23	06:31	Dec 31	08:29				

2080 00h03m				Jan 7	01:44	Jan 13	21:39	
	Jan 22	01:55	Jan 29	21:36	Feb 5	12:21	Feb 12	15:36
	Feb 20	20:11	Feb 28	07:23	Mar 5	23:28	Mar 13	11:11
	Mar 21	12:06 P	Mar 28	14:30	Apr 4	11:23 t	Apr 12	06:50
	Apr 20	01:00	Apr 26	20:15	May 4	00:09	May 12	01:12
	May 19	10:56	May 26	02:03	Jun 2	13:45	Jun 10	17:21
	Jun 17	18:40	Jun 24	09:11	Jul 2	04:09	Jul 10	06:46
	Jul 17	01:21	Jul 23	18:40	Jul 31	19:14	Aug 8	17:22
	Aug 15	08:13	Aug 22	07:07	Aug 30	10:41	Sep 7	01:38
	Sep 13	16:25 P	Sep 20	22:48	Sep 29	01:55 t	Oct 6	08:30
	Oct 13	02:44	Oct 20	17:31	Oct 28	16:13	Nov 4	15:11
	Nov 11	15:37	Nov 19	14:20	Nov 27	05:15	Dec 3	22:53
	Dec 11	07:10	Dec 19	11:23	Dec 26	17:04		

Year	New Moon	First Quarter	Full Moon	Last Quarter
Delta T				

2081 00h03m				Jan 2	08:33			
	Jan 10	01:02	Jan 18	06:29	Jan 25	04:02	Jan 31	20:37
	Feb 8	20:17	Feb 16	21:58	Feb 23	14:27	Mar 2	11:06
	Mar 10	15:17 A	Mar 18	09:26	Mar 25	00:28 p	Apr 1	03:36
	Apr 9	08:15	Apr 16	17:29	Apr 23	10:18	Apr 30	21:25
	May 8	22:09	May 15	23:19	May 22	20:24	May 30	15:36
	Jun 7	09:01	Jun 14	04:15	Jun 21	07:31	Jun 29	09:00
	Jul 6	17:43	Jul 13	09:34	Jul 20	20:21	Jul 29	00:39
	Aug 5	01:23	Aug 11	16:33	Aug 19	11:15	Aug 27	14:08
	Sep 3	09:00 T	Sep 10	02:21	Sep 18	03:45 n	Sep 26	01:30
	Oct 2	17:22	Oct 9	15:57	Oct 17	20:50	Oct 25	11:12
	Nov 1	03:03	Nov 8	09:39	Nov 16	13:20	Nov 23	19:49
	Nov 30	14:36	Dec 8	06:37	Dec 16	04:32	Dec 23	03:56
	Dec 30	04:29						

2082 00h03m		Jan 7	04:44	Jan 14	18:12	Jan 21	12:16	
	Jan 28	20:48	Feb 6	01:34	Feb 13	06:17 p	Feb 19	21:36
	Feb 27	14:49 A	Mar 7	19:15	Mar 14	16:45	Mar 21	08:38
	Mar 29	09:05	Apr 6	09:01	Apr 13	01:44	Apr 19	21:46
	Apr 28	02:02	May 5	19:03	May 12	09:48	May 19	12:57
	May 27	16:47	Jun 4	02:00	Jun 10	17:53	Jun 18	05:38
	Jun 26	05:15	Jul 3	06:59	Jul 10	03:08	Jul 17	22:58
	Jul 25	15:53	Aug 1	11:21	Aug 8	14:31 n	Aug 16	16:07

Aug 24	01:16	T	Aug 30	16:42	Sep 7	04:29	Sep 15	08:29
Sep 22	10:02	Sep 29	00:34	Oct 6	20:47	Oct 14	23:32	
Oct 21	18:49	Oct 28	12:12	Nov 5	14:39	Nov 13	12:46	
Nov 20	04:19	Nov 27	04:06	Dec 5	08:57	Dec 12	23:51	
Dec 19	15:11	Dec 26	23:35					

2083  
00h03m

			Jan 4	02:33	Jan 11	08:55		
Jan 18	03:51	Jan 25	21:03	Feb 2	18:21	Feb 9	16:39	
Feb 16	18:17	Feb 24	18:24	Mar 4	07:35	Mar 11	00:10	
Mar 18	09:58	Mar 26	13:48	Apr 2	18:07	Apr 9	08:31	
Apr 17	02:10	Apr 25	05:54	May 2	02:29	May 8	18:29	
May 16	18:13	May 24	18:10	May 31	09:41	Jun 7	06:28	
Jun 15	09:36	Jun 23	02:51	Jun 29	16:50	Jul 6	20:32	
Jul 14	23:53	Jul 22	08:55	Jul 29	00:59	Aug 5	12:38	
Aug 13	12:43	Aug 20	13:46	Aug 27	10:58	Sep 4	06:25	
Sep 12	00:05	Sep 18	18:56	Sep 25	23:23	Oct 4	01:07	
Oct 11	10:21	Oct 18	01:54	Oct 25	14:35	Nov 2	19:30	
Nov 9	20:14	Nov 16	11:48	Nov 24	08:23	Dec 2	12:06	
Dec 9	06:24	Dec 16	01:13	Dec 24	03:52			

2084  
00h03m

					Jan 1	01:54		
Jan 7	17:17	Jan 14	18:01	Jan 22	23:15	Jan 30	12:41	
Feb 6	04:54	Feb 13	13:28	Feb 21	16:37	Feb 28	21:03	
Mar 6	17:05	Mar 14	10:06	Mar 22	06:50	Mar 29	03:58	
Apr 5	05:54	Apr 13	06:05	Apr 20	17:54	Apr 27	10:29	
May 4	19:33	May 12	23:43	May 20	02:37	May 26	17:36	
Jun 3	10:14	Jun 11	14:03	Jun 18	10:00	Jun 25	02:16	
Jul 3	01:38	Jul 11	01:05	Jul 17	17:01	Jul 24	13:22	
Aug 1	17:03	Aug 9	09:31	Aug 16	00:28	Aug 23	03:34	
Aug 31	07:43	Sep 7	16:22	Sep 14	09:13	Sep 21	20:59	
Sep 29	21:14	Oct 6	22:41	Oct 13	20:10	Oct 21	16:48	
Oct 29	09:45	Nov 5	05:33	Nov 12	10:08	Nov 20	13:21	
Nov 27	21:37	Dec 4	13:57	Dec 12	03:18	Dec 20	08:44	
Dec 27	09:06	T						

2085  
00h03m

			Jan 3	00:47	Jan 10	22:42	Jan 19	01:26
Jan 25	20:06	Feb 1	14:35	Feb 9	18:24	Feb 17	14:46	
Feb 24	06:33	Mar 3	07:16	Mar 11	12:26	Mar 19	00:44	
Mar 25	16:39	Apr 2	01:51	Apr 10	03:42	Apr 17	07:55	
Apr 24	03:01	May 1	20:51	May 9	16:05	May 16	13:19	
May 23	14:25	May 31	14:51	Jun 8	02:03	Jun 14	18:19	
Jun 22	03:19	Jun 30	06:55	Jul 7	10:15	Jul 14	00:25	
Jul 21	17:43	Jul 29	20:47	Aug 5	17:29	Aug 12	09:00	
Aug 20	09:10	Aug 28	08:30	Sep 4	00:40	Sep 10	21:07	
Sep 19	01:05	Sep 26	18:17	Oct 3	08:52	Oct 10	13:08	
Oct 18	16:58	Oct 26	02:34	Nov 1	19:07	Nov 9	08:29	
Nov 17	08:19	Nov 24	10:01	Dec 1	08:08	Dec 9	05:47	
Dec 16	22:36	Dec 23	17:42	Dec 30	23:58			

Year	New Moon	First Quarter	Full Moon	Last Quarter
Delta T				

2086  
00h03m

			Jan 8	03:07			
Jan 15	11:23	Jan 22	02:41	Jan 29	17:48	Feb 6	22:32
Feb 13	22:26	Feb 20	13:48	Feb 28	12:20	Mar 8	14:30
Mar 15	08:04	Mar 22	03:15	Mar 30	06:17	Apr 7	02:22
Apr 13	16:54	Apr 20	18:38	Apr 28	22:35	May 6	10:26
May 13	01:42	May 20	11:17	May 28	12:35	Jun 4	15:50
Jun 11	11:13	Jun 19	04:32	Jun 27	00:04	Jul 3	20:09

Jul 10	22:02	Jul 18	21:45	Jul 26	09:24	Aug 2	01:01
Aug 9	10:37	Aug 17	14:14	Aug 24	17:26	Aug 31	07:52
Sep 8	01:16	Sep 16	05:16	Sep 23	01:15	Sep 29	17:52
Oct 7	17:55	Oct 15	18:17	Oct 22	09:55	Oct 29	07:39
Nov 6	11:52	Nov 14	05:10	Nov 20	20:11 p	Nov 28	01:17
Dec 6	05:46 P	Dec 13	14:19	Dec 20	08:18	Dec 27	21:59

2087  
00h03m

Jan 4	22:10	Jan 11	22:30	Jan 18	22:10	Jan 26	20:03
Feb 3	12:10	Feb 10	06:37	Feb 17	13:33	Feb 25	17:07
Mar 4	23:45	Mar 11	15:26	Mar 19	06:08	Mar 27	11:04
Apr 3	09:26	Apr 10	01:28	Apr 17	23:16	Apr 26	00:51
May 2	17:51 P	May 9	13:08	May 17	15:54 t	May 25	10:40
Jun 1	01:38 P	Jun 8	02:45	Jun 16	06:59	Jun 23	17:32
Jun 30	09:31	Jul 7	18:23	Jul 15	19:55	Jul 22	22:43
Jul 29	18:20	Aug 6	11:42	Aug 14	06:55	Aug 21	03:34
Aug 28	05:07	Sep 5	05:48	Sep 12	16:43	Sep 19	09:24
Sep 26	18:45	Oct 4	23:30	Oct 12	02:14	Oct 18	17:28
Oct 26	11:28 P	Nov 3	15:47	Nov 10	12:04 t	Nov 17	04:51
Nov 25	06:23	Dec 3	06:00	Dec 9	22:31	Dec 16	20:11
Dec 25	01:42						

2088  
00h03m

		Jan 1	17:52	Jan 8	09:36	Jan 15	15:13
Jan 23	19:38	Jan 31	03:32	Feb 6	21:32	Feb 14	12:24
Feb 22	11:09	Feb 29	11:26	Mar 7	10:35	Mar 15	09:29
Mar 23	00:00	Mar 29	18:23	Apr 6	00:59	Apr 14	04:26
Apr 21	10:25 T	Apr 28	01:28	May 5	16:25 p	May 13	20:10
May 20	18:49	May 27	09:51	Jun 4	08:08	Jun 12	08:30
Jun 19	01:54	Jun 25	20:28	Jul 3	23:23	Jul 11	17:53
Jul 18	08:39	Jul 25	09:53	Aug 2	13:40	Aug 10	00:58
Aug 16	16:15	Aug 24	02:04	Sep 1	02:58	Sep 8	06:44
Sep 15	01:57	Sep 22	20:24	Sep 30	15:26	Oct 7	12:25
Oct 14	14:38 A	Oct 22	15:50	Oct 30	03:10 p	Nov 5	19:23
Nov 13	06:31	Nov 21	11:08	Nov 28	14:17	Dec 5	04:58
Dec 13	00:51	Dec 21	04:51	Dec 28	00:56		

2089  
00h03m

						Jan 3	18:00
Jan 11	20:17	Jan 19	19:46	Jan 26	11:24	Feb 2	10:23
Feb 10	15:15	Feb 18	07:14	Feb 24	22:04	Mar 4	05:05
Mar 12	08:24	Mar 19	15:29	Mar 26	09:19 n	Apr 3	00:36
Apr 10	22:46 A	Apr 17	21:36	Apr 24	21:22	May 2	19:33
May 10	10:04	May 17	03:01	May 24	10:17	Jun 1	12:50
Jun 8	18:44	Jun 15	09:08	Jun 23	00:06	Jul 1	03:45
Jul 8	01:47	Jul 14	17:10	Jul 22	14:49	Jul 30	15:55
Aug 6	08:28	Aug 13	03:57	Aug 21	06:15	Aug 29	01:32
Sep 4	15:57	Sep 11	17:59	Sep 19	21:55 n	Sep 27	09:15
Oct 4	01:14 T	Oct 11	11:21	Oct 19	13:04	Oct 26	16:06
Nov 2	12:54	Nov 10	07:27	Nov 18	03:02	Nov 24	23:18
Dec 2	03:11	Dec 10	04:51	Dec 17	15:37	Dec 24	07:55
Dec 31	19:56						

2090  
00h03m

		Jan 9	01:20	Jan 16	03:02	Jan 22	18:38
Jan 30	14:34	Feb 7	18:51	Feb 14	13:39	Feb 21	07:42
Mar 1	09:46	Mar 9	08:18	Mar 15	23:41 t	Mar 22	22:55
Mar 31	03:48 P	Apr 7	17:54	Apr 14	09:21	Apr 21	15:51
Apr 29	19:13	May 7	00:37	May 13	18:59	May 21	09:44
May 29	07:30	Jun 5	05:45	Jun 12	05:17	Jun 20	03:34
Jun 27	17:11	Jul 4	10:37	Jul 11	17:01	Jul 19	20:16
Jul 27	01:18	Aug 2	16:32	Aug 10	06:51	Aug 18	11:05
Aug 25	08:58	Sep 1	00:44	Sep 8	22:45 t	Sep 16	23:48

Sep 23 17:02 T	Sep 30 12:20	Oct 8 15:54	Oct 16 10:37
Oct 23 02:09	Oct 30 04:04	Nov 7 09:06	Nov 14 19:58
Nov 21 12:48	Nov 28 23:39	Dec 7 01:15	Dec 14 04:25
Dec 21 01:29	Dec 28 21:34		

Year Delta T	New Moon	First Quarter	Full Moon	Last Quarter
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2091 00h03m			Jan 5 15:51	Jan 12 12:35
	Jan 19 16:31	Jan 27 19:22	Feb 4 04:46	Feb 10 21:11
	Feb 18 09:38 P	Feb 26 14:46	Mar 5 15:58 t	Mar 12 07:02
	Mar 20 03:46	Mar 28 06:30	Apr 4 01:30	Apr 10 18:45
	Apr 18 21:20	Apr 26 18:19	May 3 09:44	May 10 08:36
	May 18 13:07	May 26 02:41	Jun 1 17:29	Jun 9 00:21
	Jun 17 02:40	Jun 24 08:31	Jul 1 01:52	Jul 8 17:21
	Jul 16 14:14	Jul 23 13:02	Jul 30 12:00	Aug 7 10:45
	Aug 15 00:21 T	Aug 21 17:43	Aug 29 00:39 t	Sep 6 03:48
	Sep 13 09:33	Sep 20 00:11	Sep 27 15:56	Oct 5 19:55
	Oct 12 18:28	Oct 19 09:50	Oct 27 09:19	Nov 4 10:28
	Nov 11 03:42	Nov 17 23:38	Nov 26 03:44	Dec 3 22:56
	Dec 10 13:55	Dec 17 17:27	Dec 25 22:00	

2092 00h03m				Jan 2 09:07
	Jan 9 01:38	Jan 16 14:06	Jan 24 14:55	Jan 31 17:25
	Feb 7 15:04 A	Feb 15 11:40	Feb 23 05:30 n	Mar 1 00:46
	Mar 8 05:57	Mar 16 08:07	Mar 23 17:16	Mar 30 08:21
	Apr 6 21:42	Apr 15 01:54	Apr 22 02:29	Apr 28 17:08
	May 6 13:39	May 14 16:05	May 21 09:59	May 28 03:45
	Jun 5 05:17	Jun 13 02:33	Jun 19 16:55	Jun 26 16:32
	Jul 4 20:10	Jul 12 09:53	Jul 19 00:23 n	Jul 26 07:31
	Aug 3 09:53 A	Aug 10 15:18	Aug 17 09:21 n	Aug 25 00:32
	Sep 1 22:12	Sep 8 20:15	Sep 15 20:32	Sep 23 19:06
	Oct 1 09:13	Oct 8 02:16	Oct 15 10:24	Oct 23 14:08
	Oct 30 19:27	Nov 6 10:40	Nov 14 03:04	Nov 22 08:07
	Nov 29 05:35	Dec 5 22:17	Dec 13 21:59	Dec 21 23:39
	Dec 28 16:11			

2093 00h03m		Jan 4 13:22	Jan 12 17:43 n	Jan 20 12:03
	Jan 27 03:23 T	Feb 3 07:27	Feb 11 12:19	Feb 18 21:32
	Feb 25 15:07	Mar 5 03:28	Mar 13 04:08	Mar 20 04:57
	Mar 27 03:20	Apr 3 23:47	Apr 11 16:37	Apr 18 11:20
	Apr 25 16:14	May 3 18:37	May 11 02:18	May 17 17:48
	May 25 06:08	Jun 2 10:39	Jun 9 10:10	Jun 16 01:20
	Jun 23 21:05	Jul 1 23:24	Jul 8 17:14 p	Jul 15 10:55
	Jul 23 12:36 A	Jul 31 09:13	Aug 7 00:23	Aug 13 23:24
	Aug 22 03:53	Aug 29 16:58	Sep 5 08:27	Sep 12 15:15
	Sep 20 18:15	Sep 27 23:39	Oct 4 18:16	Oct 12 10:10
	Oct 20 07:31	Oct 27 06:18	Nov 3 06:44	Nov 11 06:50
	Nov 18 19:56	Nov 25 13:55	Dec 2 22:23	Dec 11 03:16
	Dec 18 07:47	Dec 24 23:26		

2094 00h03m			Jan 1 16:51 p	Jan 9 21:37
	Jan 16 19:05 T	Jan 23 11:34	Jan 31 12:37	Feb 8 12:46
	Feb 15 05:44	Feb 22 02:37	Mar 2 07:35	Mar 10 00:22
	Mar 16 15:46	Mar 23 20:05	Apr 1 00:13	Apr 8 08:46
	Apr 15 01:39	Apr 22 14:47	Apr 30 13:55	May 7 14:48
	May 14 12:11	May 22 09:14	May 30 00:59	Jun 5 19:41
	Jun 13 00:04 P	Jun 21 02:19	Jun 28 09:59 t	Jul 5 00:54
	Jul 12 13:37 P	Jul 20 17:25	Jul 27 17:40	Aug 3 07:58

Aug 11	04:37	Aug 19	06:27	Aug 26	00:52	Sep 1	18:09
Sep 9	20:31	Sep 17	17:28	Sep 24	08:33	Oct 1	08:15
Oct 9	12:43	Oct 17	02:45	Oct 23	17:47	Oct 31	02:09
Nov 8	04:41	Nov 15	10:45	Nov 22	05:27	Nov 29	22:48
Dec 7	19:49 P	Dec 14	18:18	Dec 21	19:55 t	Dec 29	20:29

2095 00h04m	Jan 6	09:33	Jan 13	02:28	Jan 20	12:48	Jan 28	17:09
	Feb 4	21:29	Feb 11	12:17	Feb 19	06:59	Feb 27	11:00
	Mar 6	07:40	Mar 13	00:18	Mar 21	01:10	Mar 29	00:55
	Apr 4	16:37	Apr 11	14:26	Apr 19	18:14	Apr 27	10:45
	May 4	01:07	May 11	06:13	May 19	09:22	May 26	17:17
	Jun 2	09:59 T	Jun 9	23:01	Jun 17	22:06 p	Jun 24	21:55
	Jul 1	19:55	Jul 9	16:16	Jul 17	08:32	Jul 24	02:17
	Jul 31	07:29	Aug 8	09:19	Aug 15	17:14	Aug 22	07:57
	Aug 29	21:05	Sep 7	01:26	Sep 14	01:12	Sep 20	16:16
	Sep 28	12:54	Oct 6	15:52	Oct 13	09:31	Oct 20	04:09
	Oct 28	06:32	Nov 5	04:08	Nov 11	19:05	Nov 18	19:55
	Nov 27	00:53 A	Dec 4	14:20	Dec 11	06:21 p	Dec 18	15:14
	Dec 26	18:24						

Year	New Moon	First Quarter	Full Moon	Last Quarter
Delta T				

2096 00h04m		Jan 2	23:01	Jan 9	19:19	Jan 17	12:52	
	Jan 25	09:44	Feb 1	07:03	Feb 8	09:49	Feb 16	10:40
	Feb 23	22:28	Mar 1	15:16	Mar 9	01:36	Mar 17	06:19
	Mar 24	08:55	Mar 31	00:21	Apr 7	18:18	Apr 15	22:11
	Apr 22	17:44	Apr 29	10:49	May 7	11:07 n	May 15	09:54
	May 22	01:36 T	May 28	23:06	Jun 6	02:59	Jun 13	18:08
	Jun 20	09:12	Jun 27	13:31	Jul 5	17:03	Jul 13	00:05
	Jul 19	17:21	Jul 27	05:59	Aug 4	05:06	Aug 11	05:02
	Aug 18	03:00	Aug 25	23:55	Sep 2	15:37	Sep 9	10:18
	Sep 16	15:09	Sep 24	18:13	Oct 2	01:26	Oct 8	17:11
	Oct 16	06:28	Oct 24	11:40	Oct 31	11:17 n	Nov 7	02:50
	Nov 15	00:36 A	Nov 23	03:18	Nov 29	21:34 n	Dec 6	16:08
	Dec 14	20:06	Dec 22	16:35	Dec 29	08:23		

2097 00h04m						Jan 5	09:21	
	Jan 13	15:00	Jan 21	03:26	Jan 27	19:47	Feb 4	05:33
	Feb 12	07:50	Feb 19	12:07	Feb 26	08:02	Mar 6	02:47
	Mar 13	21:57	Mar 20	19:16	Mar 27	21:28	Apr 4	22:51
	Apr 12	09:27	Apr 19	01:55	Apr 26	12:09 p	May 4	16:10
	May 11	18:41 T	May 18	09:14	May 26	03:36	Jun 3	06:12
	Jun 10	02:14	Jun 16	18:22	Jun 24	19:04	Jul 2	17:06
	Jul 9	08:58	Jul 16	06:09	Jul 24	09:55	Aug 1	01:24
	Aug 7	15:59	Aug 14	20:54	Aug 22	23:53	Aug 30	07:55
	Sep 6	00:32	Sep 13	14:20	Sep 21	13:00	Sep 28	13:39
	Oct 5	11:44	Oct 13	09:34	Oct 21	01:23 t	Oct 27	19:56
	Nov 4	02:08 A	Nov 12	05:22	Nov 19	13:03	Nov 26	04:08
	Dec 3	19:26	Dec 12	00:19	Dec 19	00:04	Dec 25	15:21

2098 00h04m	Jan 2	14:32	Jan 10	16:58	Jan 17	10:36	Jan 24	05:59
	Feb 1	09:54	Feb 9	06:15	Feb 15	21:00	Feb 22	23:26
	Mar 3	04:03	Mar 10	16:00	Mar 17	07:43	Mar 24	18:26
	Apr 1	19:48 P	Apr 8	22:55	Apr 15	19:04 t	Apr 23	13:35
	May 1	08:33	May 8	04:20	May 15	07:15	May 23	07:41
	May 30	18:23	Jun 6	09:45	Jun 13	20:24	Jun 21	23:52
	Jun 29	02:06	Jul 5	16:31	Jul 13	10:35	Jul 21	13:35
	Jul 28	08:50	Aug 4	01:42	Aug 12	01:44	Aug 20	00:41

Aug 26 15:52	Sep 2 14:01	Sep 10 17:33	Sep 18 09:32
Sep 25 00:16 P	Oct 2 05:47	Oct 10 09:20 t	Oct 17 16:56
Oct 24 10:48 P	Nov 1 00:46	Nov 9 00:15	Nov 16 00:01
Nov 22 23:50	Nov 30 21:56	Dec 8 13:45	Dec 15 07:53
Dec 22 15:24	Dec 30 19:19		

2099  
00h04m

		Jan 7 01:50	Jan 13 17:26
Jan 21 09:07	Jan 29 14:38	Feb 5 12:48	Feb 12 05:08
Feb 20 04:05	Feb 28 06:12	Mar 6 22:59	Mar 13 19:00
Mar 21 22:46 A	Mar 29 17:37	Apr 5 08:36 p	Apr 12 10:48
Apr 20 15:30	Apr 28 01:34	May 4 17:57	May 12 04:00
May 20 05:17	May 27 07:15	Jun 3 03:35	Jun 10 21:50
Jun 18 16:10	Jun 25 12:00	Jul 2 14:20	Jul 10 15:14
Jul 18 01:00	Jul 24 17:10	Aug 1 02:59	Aug 9 07:14
Aug 16 08:54	Aug 23 00:02	Aug 30 17:56	Sep 7 21:18
Sep 14 16:50 T	Sep 21 09:48	Sep 29 10:46 n	Oct 7 09:21
Oct 14 01:31	Oct 20 23:26	Oct 29 04:21	Nov 5 19:42
Nov 12 11:29	Nov 19 17:16	Nov 27 21:23	Dec 5 04:45
Dec 11 23:09	Dec 19 14:20	Dec 27 12:59	

2100  
00h04m

			Jan 3 13:03
Jan 10 12:56	Jan 18 12:32	Jan 26 02:50	Feb 1 21:16
Feb 9 04:55	Feb 17 09:21	Feb 24 14:52 n	Mar 3 06:12
Mar 10 22:29 A	Mar 19 02:58	Mar 26 01:04	Apr 1 16:36
Apr 9 16:17	Apr 17 16:41	Apr 24 09:42	May 1 05:01
May 9 08:54	May 17 02:41	May 23 17:24	May 30 19:34
Jun 7 23:31	Jun 15 09:40	Jun 22 01:10	Jun 29 11:51
Jul 7 12:06	Jul 14 14:43	Jul 21 10:11	Jul 29 05:08
Aug 5 23:01	Aug 12 19:10	Aug 19 21:28 n	Aug 27 22:37
Sep 4 08:48 T	Sep 11 00:36	Sep 18 11:31	Sep 26 15:34
Oct 3 18:01	Oct 10 08:32	Oct 18 04:05	Oct 26 07:19
Nov 2 03:13	Nov 8 20:14	Nov 16 22:19	Nov 24 21:13
Dec 1 13:00	Dec 8 12:07	Dec 16 17:00	Dec 24 08:45
Dec 30 23:56			

Year            New Moon            First Quarter            Full Moon            Last Quarter  
Delta T

2101  
00h04m

		Jan 7 07:30	Jan 15 10:51	Jan 22 17:59
Jan 29 12:25	Feb 6 04:45	Feb 14 02:43 t	Feb 21 01:36	
Feb 28 02:25 A	Mar 8 01:50	Mar 15 15:51	Mar 22 08:44	
Mar 29 17:32	Apr 6 21:00	Apr 14 02:09	Apr 20 16:32	
Apr 28 09:10	May 6 13:00	May 13 10:15	May 20 01:52	
May 28 00:50	Jun 5 01:20	Jun 11 17:13	Jun 18 13:16	
Jun 26 16:04	Jul 4 10:14	Jul 11 00:13	Jul 18 02:58	
Jul 26 06:30	Aug 2 16:35	Aug 9 08:18 t	Aug 16 18:59	
Aug 24 19:44 P	Aug 31 21:44	Sep 7 18:20	Sep 15 12:59	
Sep 23 07:38	Sep 30 03:10	Oct 7 06:53	Oct 15 08:13	
Oct 22 18:27	Oct 29 10:20	Nov 5 22:16	Nov 14 03:13	
Nov 21 04:47	Nov 27 20:19	Dec 5 16:16	Dec 13 20:24	
Dec 20 15:13	Dec 27 09:37			

2102  
00h04m

		Jan 4 11:53	Jan 12 10:35
Jan 19 02:07 P	Jan 26 02:08	Feb 3 07:19 t	Feb 10 21:31
Feb 17 13:28	Feb 24 21:08	Mar 5 00:37	Mar 12 05:47
Mar 19 01:12	Mar 26 17:16	Apr 3 14:41	Apr 10 12:24
Apr 17 13:25	Apr 25 12:51	May 3 01:35	May 9 18:29
May 17 02:31	May 25 06:20	Jun 1 10:09	Jun 8 01:08
Jun 15 16:45	Jun 23 20:47	Jun 30 17:28	Jul 7 09:22

Jul 15	08:00	A	Jul 23	08:10	Jul 30	00:29	t	Aug 5	20:10
Aug 13	23:36		Aug 21	17:04	Aug 28	08:04		Sep 4	10:16
Sep 12	14:43		Sep 20	00:25	Sep 26	16:59		Oct 4	03:51
Oct 12	04:50		Oct 19	07:11	Oct 26	04:07		Nov 3	00:02
Nov 10	17:55		Nov 17	14:20	Nov 24	18:13		Dec 2	21:03
Dec 10	06:14		Dec 16	22:50	Dec 24	11:24			

2103  
00h04m

								Jan 1	16:50
Jan 8	17:56	T	Jan 15	09:30	Jan 23	06:42	n	Jan 31	09:48
Feb 7	04:53		Feb 13	22:53	Feb 22	02:13		Mar 1	23:12
Mar 8	15:02		Mar 15	14:56	Mar 23	20:02		Mar 31	09:05
Apr 7	00:41		Apr 14	08:52	Apr 22	11:06		Apr 29	16:05
May 6	10:31		May 14	03:22	May 21	23:22		May 28	21:15
Jun 4	21:25		Jun 12	21:08	Jun 20	09:19	n	Jun 27	01:59
Jul 4	09:57	A	Jul 12	13:20	Jul 19	17:38	n	Jul 26	07:50
Aug 3	00:13		Aug 11	03:36	Aug 18	01:04		Aug 24	16:15
Sep 1	15:50		Sep 9	15:55	Sep 16	08:31		Sep 23	04:19
Oct 1	08:10		Oct 9	02:21	Oct 15	16:59		Oct 22	20:26
Oct 31	00:36		Nov 7	11:11	Nov 14	03:27		Nov 21	16:00
Nov 29	16:30		Dec 6	19:01	Dec 13	16:34	n	Dec 21	13:31
Dec 29	07:11	A							

2104  
00h04m

			Jan 5	02:47	Jan 12	08:17		Jan 20	11:00
Jan 27	20:06		Feb 3	11:34	Feb 11	01:48		Feb 19	06:28
Feb 26	07:04		Mar 3	22:12	Mar 11	19:56		Mar 19	22:26
Mar 26	16:24		Apr 2	10:59	Apr 10	13:29		Apr 18	10:14
Apr 25	00:49		May 2	01:40	May 10	05:32		May 17	18:15
May 24	09:12		May 31	17:44	Jun 8	19:28	p	Jun 15	23:37
Jun 22	18:20	T	Jun 30	10:42	Jul 8	07:05		Jul 15	03:54
Jul 22	04:55		Jul 30	03:59	Aug 6	16:41		Aug 13	08:44
Aug 20	17:26		Aug 28	20:53	Sep 5	01:04		Sep 11	15:36
Sep 19	08:13		Sep 27	12:33	Oct 4	09:17		Oct 11	01:38
Oct 19	01:12		Oct 27	02:18	Nov 2	18:19		Nov 9	15:28
Nov 17	19:36		Nov 25	13:48	Dec 2	04:49	p	Dec 9	09:08
Dec 17	13:56	A	Dec 24	23:20	Dec 31	16:58			

2105  
00h04m

								Jan 8	05:47
Jan 16	06:36		Jan 23	07:37	Jan 30	06:36		Feb 7	03:44
Feb 14	20:40		Feb 21	15:32	Feb 28	21:33		Mar 9	00:38
Mar 16	08:06		Mar 22	23:52	Mar 30	13:35		Apr 7	18:27
Apr 14	17:31		Apr 21	09:17	Apr 29	06:12		May 7	08:11
May 14	01:37	P	May 20	20:17	May 28	22:31	t	Jun 5	18:05
Jun 12	09:07	P	Jun 19	09:19	Jun 27	13:33		Jul 5	01:06
Jul 11	16:48		Jul 19	00:39	Jul 27	02:43		Aug 3	06:29
Aug 10	01:32		Aug 17	17:59	Aug 25	14:07		Sep 1	11:33
Sep 8	12:20		Sep 16	12:26	Sep 24	00:25		Sep 30	17:34
Oct 8	02:06		Oct 16	06:46	Oct 23	10:26		Oct 30	01:45
Nov 6	19:03	P	Nov 14	23:44	Nov 21	20:40	t	Nov 28	13:10
Dec 6	14:14		Dec 14	14:31	Dec 21	07:19		Dec 28	04:24

Year  
Delta T

New Moon                      First Quarter                      Full Moon                      Last Quarter

2106  
00h04m

Jan 5	09:47	Jan 13	02:45	Jan 19	18:23	Jan 26	23:09
Feb 4	03:49	Feb 11	12:29	Feb 18	06:00	Feb 25	19:57
Mar 5	19:17	Mar 12	20:12	Mar 19	18:34	Mar 27	16:38
Apr 4	07:59	Apr 11	02:45	Apr 18	08:20	Apr 26	11:19
May 3	18:11	May 10	09:20	May 17	23:13	May 26	02:59
Jun 2	02:24	Jun 8	17:10	Jun 16	14:36	Jun 24	15:30

Jul 1	09:22	Jul 8	03:19	Jul 16	05:48	Jul 24	01:11
Jul 30	16:06	Aug 6	16:27	Aug 14	20:21	Aug 22	08:42
Aug 28	23:46	Sep 5	08:37	Sep 13	10:08	Sep 20	14:53
Sep 27	09:35	Oct 5	03:13	Oct 12	23:10	Oct 19	20:54
Oct 26	22:27 A	Nov 3	23:09	Nov 11	11:28 p	Nov 18	04:05
Nov 25	14:28	Dec 3	18:59	Dec 10	22:59	Dec 17	13:41
Dec 25	08:53						

2107  
00h04m

		Jan 2	13:10	Jan 9	09:48	Jan 16	02:31
Jan 24	04:17	Feb 1	04:20	Feb 7	20:10	Feb 14	18:27
Feb 22	23:08	Mar 2	15:50	Mar 9	06:30	Mar 16	12:33
Mar 24	16:07	Mar 31	23:58	Apr 7	17:14 n	Apr 15	07:31
Apr 23	06:19 A	Apr 30	05:49	May 7	04:42	May 15	02:04
May 22	17:29	May 29	10:53	Jun 5	17:07	Jun 13	19:15
Jun 21	02:08	Jun 27	16:38	Jul 5	06:37	Jul 13	10:21
Jul 20	09:14	Jul 27	00:22	Aug 3	21:17	Aug 11	22:59
Aug 18	16:03	Aug 25	10:58	Sep 2	12:57	Sep 10	09:11
Sep 16	23:45	Sep 24	01:00	Oct 2	05:06 n	Oct 9	17:29
Oct 16	09:16 T	Oct 23	18:31	Oct 31	20:51	Nov 8	00:49
Nov 14	21:08	Nov 22	14:56	Nov 30	11:22	Dec 7	08:17
Dec 14	11:28	Dec 22	12:39	Dec 30	00:19		

2108  
00h04m

						Jan 5	16:54
Jan 13	04:07	Jan 21	09:23	Jan 28	11:50	Feb 4	03:22
Feb 11	22:29	Feb 20	03:00	Feb 26	22:17	Mar 4	15:53
Mar 12	17:21	Mar 20	16:27	Mar 27	07:58 t	Apr 3	06:25
Apr 11	11:05 P	Apr 19	01:58	Apr 25	17:11	May 2	22:40
May 11	02:18	May 18	08:33	May 25	02:22	Jun 1	16:04
Jun 9	14:34	Jun 16	13:33	Jun 23	12:15	Jul 1	09:44
Jul 9	00:21	Jul 15	18:17	Jul 22	23:45	Jul 31	02:39
Aug 7	08:43	Aug 14	00:06	Aug 21	13:31	Aug 29	17:58
Sep 5	16:41	Sep 12	08:16	Sep 20	05:38 p	Sep 28	07:21
Oct 5	01:05 T	Oct 11	19:53	Oct 19	23:13	Oct 27	18:51
Nov 3	10:31	Nov 10	11:41	Nov 18	16:56	Nov 26	04:46
Dec 2	21:22	Dec 10	07:23	Dec 18	09:33	Dec 25	13:31

2109  
00h04m

Jan 1	10:02	Jan 9	05:21	Jan 17	00:25	Jan 23	21:40
Jan 31	00:49	Feb 8	03:07	Feb 15	13:22	Feb 22	05:59
Mar 1	17:30 P	Mar 9	22:27	Mar 17	00:22 t	Mar 23	15:17
Mar 31	11:06	Apr 8	14:06	Apr 15	09:35	Apr 22	02:19
Apr 30	04:15	May 8	01:53	May 14	17:28	May 21	15:29
May 29	19:49	Jun 6	10:17	Jun 13	00:54	Jun 20	06:43
Jun 28	09:25	Jul 5	16:12	Jul 12	09:02	Jul 19	23:31
Jul 27	21:13	Aug 3	20:50	Aug 10	19:02	Aug 18	17:04
Aug 26	07:42 P	Sep 2	01:38	Sep 9	07:41 t	Sep 17	10:37
Sep 24	17:22	Oct 1	08:11	Oct 8	23:10	Oct 17	03:23
Oct 24	02:43	Oct 30	17:56	Nov 7	16:52	Nov 15	18:38
Nov 22	12:19	Nov 29	07:44	Dec 7	11:38	Dec 15	07:39
Dec 21	22:41	Dec 29	01:28				

2110  
00h04m

				Jan 6	06:12	Jan 13	18:08
Jan 20	10:19	Jan 27	21:55	Feb 4	23:14	Feb 12	02:25
Feb 18	23:25 A	Feb 26	19:10	Mar 6	13:46 n	Mar 13	09:30
Mar 20	13:46	Mar 28	15:21	Apr 5	01:21	Apr 11	16:36
Apr 19	04:55	Apr 27	08:57	May 4	10:19	May 11	00:47
May 18	20:23	May 26	23:09	Jun 2	17:36	Jun 9	10:49
Jun 17	11:45	Jun 25	09:47	Jul 2	00:22	Jul 8	23:08
Jul 17	02:40	Jul 24	17:25	Jul 31	07:45	Aug 7	13:54
Aug 15	16:42 A	Aug 22	23:09	Aug 29	16:44 p	Sep 6	07:02



Sep 14	05:32	Sep 21	04:25	Sep 28	04:02	Oct 6	01:59
Oct 13	17:07	Oct 20	10:42	Oct 27	18:04	Nov 4	21:35
Nov 12	03:51	Nov 18	19:14	Nov 26	10:55	Dec 4	16:11
Dec 11	14:20	Dec 18	06:49	Dec 26	05:58		

Year	New Moon	First Quarter	Full Moon	Last Quarter
Delta T				

2111				Jan 3	08:10		
00h04m							
Jan 10	01:02	Jan 16	21:40	Jan 25	01:46 n	Feb 1	20:48
Feb 8	12:06 T	Feb 15	15:20	Feb 23	20:18	Mar 3	06:16
Mar 9	23:26	Mar 17	10:49	Mar 25	11:59	Apr 1	13:28
Apr 8	11:06	Apr 16	06:39	Apr 24	00:19	Apr 30	19:30
May 7	23:25	May 16	01:13	May 23	09:51	May 30	01:32
Jun 6	12:49	Jun 14	17:15	Jun 21	17:38	Jun 28	08:38
Jul 6	03:29	Jul 14	06:16	Jul 21	00:42 p	Jul 27	17:53
Aug 4	19:02 A	Aug 12	16:32	Aug 19	07:57	Aug 26	06:11
Sep 3	10:40	Sep 11	00:49	Sep 17	16:11	Sep 24	22:05
Oct 3	01:36	Oct 10	08:00	Oct 17	02:13	Oct 24	17:17
Nov 1	15:28	Nov 8	15:02	Nov 15	14:50	Nov 23	14:21
Dec 1	04:24	Dec 7	22:50	Dec 15	06:33	Dec 23	11:12
Dec 30	16:33						

2112		Jan 6	08:17	Jan 14	00:56 p	Jan 22	05:51
00h04m							
Jan 29	03:55 T	Feb 4	20:05	Feb 12	20:30	Feb 20	21:07
Feb 27	14:21	Mar 5	10:34	Mar 13	15:13	Mar 21	08:42
Mar 27	23:59	Apr 4	03:22	Apr 12	07:37	Apr 19	16:58
Apr 26	09:22	May 3	21:27	May 11	21:11	May 18	22:48
May 25	19:23	Jun 2	15:33	Jun 10	08:12	Jun 17	03:28
Jun 24	06:51 P	Jul 2	08:36	Jul 9	17:17 t	Jul 16	08:28
Jul 23	20:10 P	Aug 1	00:00	Aug 8	01:09	Aug 14	15:21
Aug 22	11:12	Aug 30	13:34	Sep 6	08:36	Sep 13	01:27
Sep 21	03:25	Sep 29	01:15	Oct 5	16:36	Oct 12	15:35
Oct 20	20:08	Oct 28	11:10	Nov 4	02:06	Nov 11	09:37
Nov 19	12:40	Nov 26	19:38	Dec 3	13:55	Dec 11	06:29
Dec 19	04:16 P	Dec 26	03:23				

2113				Jan 2	04:21 t	Jan 10	04:18
00h04m							
Jan 17	18:14	Jan 24	11:29	Jan 31	20:58	Feb 9	01:02
Feb 16	06:08	Feb 22	20:56	Mar 2	14:44	Mar 10	18:52
Mar 17	16:06	Mar 24	08:20	Apr 1	08:30	Apr 9	08:44
Apr 16	00:41	Apr 22	21:46	May 1	01:13	May 8	18:31
May 15	08:46	May 22	12:53	May 30	16:12	Jun 7	01:02
Jun 13	17:16 T	Jun 21	05:16	Jun 29	05:00 p	Jul 6	05:40
Jul 13	02:55	Jul 20	22:25	Jul 28	15:40	Aug 4	10:02
Aug 11	14:21	Aug 19	15:45	Aug 27	00:43	Sep 2	15:44
Sep 10	04:01	Sep 18	08:26	Sep 25	09:06	Oct 2	00:06
Oct 9	20:04	Oct 17	23:34	Oct 24	17:49	Oct 31	12:01
Nov 8	14:06	Nov 16	12:32	Nov 23	03:41	Nov 30	03:50
Dec 8	08:53 A	Dec 15	23:13	Dec 22	15:03 p	Dec 29	23:07

2114	Jan 7	02:43	Jan 14	08:07	Jan 21	03:54	Jan 28	20:36
00h04m								
Feb 5	18:12	Feb 12	16:04	Feb 19	18:01	Feb 27	18:13	
Mar 7	06:51	Mar 13	23:55	Mar 21	09:16	Mar 29	13:40	
Apr 5	17:05	Apr 12	08:26	Apr 20	01:24	Apr 28	05:27	
May 5	01:36	May 11	18:15	May 19	17:47 n	May 27	17:12	
Jun 3	09:11 T	Jun 10	05:56	Jun 18	09:30 n	Jun 26	01:35	
Jul 2	16:35	Jul 9	19:54	Jul 17	23:42	Jul 25	07:45	
Aug 1	00:37	Aug 8	12:14	Aug 16	12:07	Aug 23	12:56	

Aug 30	10:15	Sep 7	06:24	Sep 14	23:07	Sep 21	18:26
Sep 28	22:30	Oct 7	01:13	Oct 14	09:27	Oct 21	01:29
Oct 28	14:00	Nov 5	19:19	Nov 12	19:45 n	Nov 19	11:13
Nov 27	08:23 A	Dec 5	11:35	Dec 12	06:20 n	Dec 19	00:28
Dec 27	04:06						

2115 00h04m		Jan 4	01:19	Jan 10	17:13	Jan 17	17:27	
	Jan 25	23:08	Feb 2	12:21	Feb 9	04:25	Feb 16	13:16
	Feb 24	15:57	Mar 3	20:57	Mar 10	16:14	Mar 18	10:03
	Mar 26	05:57	Apr 2	03:48	Apr 9	05:05	Apr 17	05:45
	Apr 24	17:15	May 1	10:00	May 8	19:10 p	May 16	22:55
	May 24	02:18 T	May 30	16:48	Jun 7	10:10	Jun 15	13:02
	Jun 22	09:43	Jun 29	01:26	Jul 7	01:27	Jul 15	00:13
	Jul 21	16:26	Jul 28	12:51	Aug 5	16:27	Aug 13	08:56
	Aug 19	23:30	Aug 27	03:29	Sep 4	06:49	Sep 11	15:54
	Sep 18	08:11	Sep 25	21:04	Oct 3	20:30	Oct 10	22:03
	Oct 17	19:32	Oct 25	16:41	Nov 2	09:28 p	Nov 9	04:38
	Nov 16	10:05 A	Nov 24	13:01	Dec 1	21:37	Dec 8	12:56
	Dec 16	03:29	Dec 24	08:26	Dec 31	08:53		

Year	New Moon	First Quarter	Full Moon	Last Quarter
Delta T				

2116 00h04m				Jan 7	00:01			
	Jan 14	22:34	Jan 23	01:24	Jan 29	19:25	Feb 5	14:17
	Feb 13	17:49	Feb 21	14:48	Feb 28	05:35	Mar 6	07:10
	Mar 14	11:46	Mar 22	00:29	Mar 28	15:50	Apr 5	01:33
	Apr 13	03:20 P	Apr 20	07:12	Apr 27	02:38 t	May 4	20:12
	May 12	15:57	May 19	12:20	May 26	14:18	Jun 3	14:03
	Jun 11	01:44	Jun 17	17:25	Jun 25	03:03	Jul 3	06:19
	Jul 10	09:30	Jul 16	23:53	Jul 24	17:03	Aug 1	20:24
	Aug 8	16:23	Aug 15	08:51	Aug 23	08:19	Aug 31	08:04
	Sep 6	23:37	Sep 13	21:05	Sep 22	00:31	Sep 29	17:32
	Oct 6	08:15 P	Oct 13	12:56	Oct 21	16:53 t	Oct 29	01:30
	Nov 4	19:01 P	Nov 12	08:09	Nov 20	08:23	Nov 27	08:56
	Dec 4	08:11	Dec 12	05:37	Dec 19	22:20	Dec 26	16:56

2117 00h04m	Jan 2	23:41	Jan 11	03:15	Jan 18	10:36	Jan 25	02:20
	Feb 1	17:10	Feb 9	22:41	Feb 16	21:30	Feb 23	13:35
	Mar 3	11:47	Mar 11	14:16	Mar 18	07:24	Mar 25	02:48
	Apr 2	06:06 A	Apr 10	01:38	Apr 16	16:36 p	Apr 23	17:53
	May 1	22:35	May 9	09:30	May 16	01:30	May 23	10:30
	May 31	12:17	Jun 7	15:05	Jun 14	10:44	Jun 22	04:00
	Jun 29	23:14	Jul 6	19:44	Jul 13	21:10	Jul 21	21:27
	Jul 29	08:17	Aug 5	00:49	Aug 12	09:41	Aug 20	13:52
	Aug 27	16:29	Sep 3	07:38	Sep 11	00:44	Sep 19	04:33
	Sep 26	00:46 T	Oct 2	17:24	Oct 10	17:55 p	Oct 18	17:19
	Oct 25	09:49	Nov 1	07:06	Nov 9	11:59	Nov 17	04:17
	Nov 23	20:02	Dec 1	01:00	Dec 9	05:30	Dec 16	13:45
	Dec 23	07:46	Dec 30	22:07				

2118 00h04m				Jan 7	21:27	Jan 14	22:11	
	Jan 21	21:23	Jan 29	20:17	Feb 6	11:24	Feb 13	06:14
	Feb 20	12:59	Feb 28	17:00	Mar 7	23:19 n	Mar 14	14:42
	Mar 22	06:01 A	Mar 30	10:31	Apr 6	09:16	Apr 13	00:28
	Apr 20	23:20	Apr 29	00:10	May 5	17:34	May 12	12:12
	May 20	15:38	May 28	10:12	Jun 4	00:56	Jun 11	02:09
	Jun 19	06:11	Jun 26	17:17	Jul 3	08:27	Jul 10	18:05
	Jul 18	18:55	Jul 25	22:28	Aug 1	17:18	Aug 9	11:22

Aug 17 06:11	Aug 24 03:04	Aug 31 04:33 n	Sep 8 05:12
Sep 15 16:25 T	Sep 22 08:38	Sep 29 18:43	Oct 7 22:45
Oct 15 02:07	Oct 21 16:40	Oct 29 11:33	Nov 6 15:12
Nov 13 11:43	Nov 20 04:25	Nov 28 06:06	Dec 6 05:43
Dec 12 21:45	Dec 19 20:14	Dec 28 01:04	

2119  
00h04m

			Jan 4 17:39
Jan 11 08:43	Jan 18 15:26	Jan 26 19:06	Feb 3 03:00
Feb 9 20:57	Feb 17 12:22	Feb 25 10:58 t	Mar 4 10:27
Mar 11 10:28 A	Mar 19 09:07	Mar 26 23:58	Apr 2 17:11
Apr 10 00:59	Apr 18 04:02	Apr 25 10:03	May 2 00:26
May 9 16:04	May 17 19:58	May 24 17:56	May 31 09:11
Jun 8 07:21	Jun 16 08:25	Jun 23 00:43	Jun 29 20:05
Jul 7 22:31	Jul 15 17:35	Jul 22 07:37	Jul 29 09:28
Aug 6 13:09	Aug 14 00:17	Aug 20 15:43 t	Aug 28 01:26
Sep 5 02:50 P	Sep 12 05:48	Sep 19 01:50	Sep 26 19:43
Oct 4 15:18	Oct 11 11:33	Oct 18 14:33	Oct 26 15:26
Nov 3 02:41	Nov 9 18:55	Nov 17 06:06	Nov 25 11:02
Dec 2 13:25	Dec 9 04:57	Dec 17 00:14	Dec 25 04:44

2120  
00h04m

Jan 1 00:04	Jan 7 18:05	Jan 15 19:54	Jan 23 19:13
Jan 30 10:55 P	Feb 6 10:14	Feb 14 15:17 t	Feb 22 06:14
Feb 28 21:58	Mar 7 04:42	Mar 15 08:28	Mar 22 14:22
Mar 29 09:12	Apr 6 00:17	Apr 13 22:23	Apr 20 20:42
Apr 27 20:51	May 5 19:29	May 13 09:07	May 20 02:24
May 27 09:23	Jun 4 12:50	Jun 11 17:36	Jun 18 08:38
Jun 25 23:15	Jul 4 03:28	Jul 11 00:55	Jul 17 16:31
Jul 25 14:24 A	Aug 2 15:15	Aug 9 08:01 t	Aug 16 03:05
Aug 24 06:13	Sep 1 00:41	Sep 7 15:46	Sep 14 17:08
Sep 22 21:49	Sep 30 08:34	Oct 7 00:54	Oct 14 10:52
Oct 22 12:32	Oct 29 15:48	Nov 5 12:14	Nov 13 07:24
Nov 21 02:11	Nov 27 23:15	Dec 5 02:25	Dec 13 04:50
Dec 20 14:55	Dec 27 07:47		

Year	New Moon	First Quarter	Full Moon	Last Quarter
Delta T				

2121  
00h04m

			Jan 3 19:34	Jan 12 00:56
Jan 19 02:45 T	Jan 25 18:13	Feb 2 14:40 n	Feb 10 18:03	
Feb 17 13:36	Feb 24 07:07	Mar 4 09:55	Mar 12 07:29	
Mar 18 23:25	Mar 25 22:30	Apr 3 03:27	Apr 10 17:17	
Apr 17 08:36	Apr 24 15:46	May 2 18:21	May 10 00:07	
May 16 17:57	May 24 09:46	Jun 1 06:32	Jun 8 05:06	
Jun 15 04:23	Jun 23 03:22	Jun 30 16:32 n	Jul 7 09:39	
Jul 14 16:37 A	Jul 22 19:43	Jul 30 01:01 n	Aug 5 15:20	
Aug 13 06:48	Aug 21 10:27	Aug 28 08:42	Sep 3 23:38	
Sep 11 22:37	Sep 19 23:24	Sep 26 16:28	Oct 3 11:42	
Oct 11 15:23	Oct 19 10:31	Oct 26 01:15	Nov 2 03:55	
Nov 10 08:22	Nov 17 19:55	Nov 24 11:56	Dec 1 23:38	
Dec 10 00:46	Dec 17 04:04	Dec 24 01:04 n	Dec 31 21:17	

2122  
00h04m

Jan 8 15:47 A	Jan 15 11:53	Jan 22 16:35	Jan 30 18:50
Feb 7 04:46	Feb 13 20:24	Feb 21 09:44	Mar 1 14:17
Mar 8 15:34	Mar 15 06:31	Mar 23 03:24	Mar 31 06:11
Apr 7 00:35	Apr 13 18:37	Apr 21 20:33	Apr 29 17:56
May 6 08:38	May 13 08:36	May 21 12:21	May 29 01:57
Jun 4 16:38	Jun 12 00:08	Jun 20 02:16 p	Jun 27 07:21
Jul 4 01:28 T	Jul 11 16:51	Jul 19 14:04	Jul 26 11:40
Aug 2 11:52	Aug 10 10:15	Aug 18 00:01	Aug 24 16:33

Sep 1	00:22	Sep 9	03:36	Sep 16	08:49	Sep 22	23:28
Sep 30	15:19	Oct 8	19:58	Oct 15	17:27	Oct 22	09:34
Oct 30	08:37	Nov 7	10:25	Nov 14	02:50	Nov 20	23:27
Nov 29	03:26	Dec 6	22:30	Dec 13	13:33 p	Dec 20	17:05
Dec 28	22:07 A						

2123 00h04m		Jan 5	08:21	Jan 12	01:39	Jan 19	13:36	
	Jan 27	14:59	Feb 3	16:41	Feb 10	15:00	Feb 18	11:20
	Feb 26	05:03	Mar 5	00:21	Mar 12	05:27	Mar 20	08:00
	Mar 27	16:19	Apr 3	08:12	Apr 10	20:54	Apr 19	01:39
	Apr 26	01:27	May 2	17:00	May 10	13:00	May 18	15:23
	May 25	09:17 P	Jun 1	03:22	Jun 9	05:02 t	Jun 17	01:24
	Jun 23	16:35 P	Jun 30	15:54	Jul 8	20:05	Jul 16	08:38
	Jul 23	00:07	Jul 30	06:57	Aug 7	09:32	Aug 14	14:18
	Aug 21	08:50	Aug 29	00:21	Sep 5	21:24	Sep 12	19:37
	Sep 19	19:42	Sep 27	19:12	Oct 5	08:14	Oct 12	01:52
	Oct 19	09:37	Oct 27	14:09	Nov 3	18:44	Nov 10	10:12
	Nov 18	02:47 P	Nov 26	07:45	Dec 3	05:21 t	Dec 9	21:36
	Dec 17	22:11	Dec 25	23:03				

2124 00h04m				Jan 1	16:10	Jan 8	12:39	
	Jan 16	17:51	Jan 24	11:34	Jan 31	03:08	Feb 7	07:02
	Feb 15	11:55	Feb 22	21:20	Feb 29	14:24	Mar 8	03:22
	Mar 16	03:17	Mar 23	04:50	Mar 30	02:25	Apr 6	23:38
	Apr 14	15:49	Apr 21	11:01	Apr 28	15:35	May 6	18:03
	May 14	01:50 T	May 20	17:07	May 28	05:56 p	Jun 5	09:42
	Jun 12	09:55	Jun 19	00:28	Jun 26	21:01	Jul 4	22:25
	Jul 11	16:50	Jul 18	10:12	Jul 26	12:14	Aug 3	08:30
	Aug 9	23:36	Aug 16	23:07	Aug 25	03:06	Sep 1	16:29
	Sep 8	07:24	Sep 15	15:19	Sep 23	17:24	Sep 30	23:09
	Oct 7	17:23	Oct 15	10:12	Oct 23	07:02	Oct 30	05:32
	Nov 6	06:25 A	Nov 14	06:36	Nov 21	19:52 p	Nov 28	12:55
	Dec 5	22:32	Dec 14	02:54	Dec 21	07:45	Dec 27	22:29

2125 00h04m	Jan 4	16:57	Jan 12	21:27	Jan 19	18:39	Jan 26	11:02
	Feb 3	12:14	Feb 11	12:48	Feb 18	04:51	Feb 25	02:27
	Mar 5	06:54	Mar 13	00:18	Mar 19	14:48	Mar 26	19:55
	Apr 3	23:39	Apr 11	08:17	Apr 18	01:02 n	Apr 25	14:17
	May 3	13:41 A	May 10	13:54	May 17	11:58 n	May 25	08:28
	Jun 2	00:48	Jun 8	18:41	Jun 15	23:55	Jun 24	01:35
	Jul 1	09:28	Jul 8	00:09	Jul 15	13:09	Jul 23	16:57
	Jul 30	16:42	Aug 6	07:38	Aug 14	03:48	Aug 22	06:05
	Aug 28	23:43	Sep 4	18:07	Sep 12	19:45	Sep 20	16:55
	Sep 27	07:41	Oct 4	08:10	Oct 12	12:25 n	Oct 20	01:50
	Oct 26	17:28 T	Nov 3	01:52	Nov 11	04:45	Nov 18	09:38
	Nov 25	05:29	Dec 2	22:31	Dec 10	19:47	Dec 17	17:21
	Dec 24	19:50						

Year Delta T	New Moon	First Quarter	Full Moon	Last Quarter
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2126 00h05m		Jan 1	20:28	Jan 9	09:01	Jan 16	01:56	
	Jan 23	12:18	Jan 31	17:21	Feb 7	20:34	Feb 14	12:02
	Feb 22	06:19	Mar 2	11:00	Mar 9	06:49	Mar 15	23:59
	Mar 24	00:47	Apr 1	00:25	Apr 7	16:08 t	Apr 14	13:49
	Apr 22	18:12 A	Apr 30	09:52	May 7	00:54	May 14	05:23
	May 22	09:16	May 29	16:24	Jun 5	09:40	Jun 12	22:19
	Jun 20	21:32	Jun 27	21:19	Jul 4	19:14	Jul 12	15:53
	Jul 20	07:31	Jul 27	02:00	Aug 3	06:32	Aug 11	09:03
	Aug 18	16:09	Aug 25	07:47	Sep 1	20:19	Sep 10	00:56

Sep 17	00:29	Sep 23	15:56	Oct 1	12:39 p	Oct 9	15:01
Oct 16	09:17 T	Oct 23	03:36	Oct 31	06:41	Nov 8	03:11
Nov 14	19:01	Nov 21	19:28	Nov 30	00:52	Dec 7	13:37
Dec 14	06:01	Dec 21	15:11	Dec 29	17:52		

2127  
00h05m

						Jan 5	22:37
Jan 12	18:37	Jan 20	13:07	Jan 28	08:56	Feb 4	06:44
Feb 11	09:04	Feb 19	10:46	Feb 26	21:51	Mar 5	14:42
Mar 13	01:15 P	Mar 21	05:58	Mar 28	08:39 t	Apr 3	23:26
Apr 11	18:19	Apr 19	21:31	Apr 26	17:33	May 3	09:47
May 11	11:03	May 19	09:18	May 26	01:07	Jun 1	22:18
Jun 10	02:26	Jun 17	17:48	Jun 24	08:17	Jul 1	13:05
Jul 9	16:06	Jul 16	23:52	Jul 23	16:14	Jul 31	05:43
Aug 8	04:12	Aug 15	04:41	Aug 22	02:10	Aug 29	23:29
Sep 6	15:07 P	Sep 13	09:40	Sep 20	14:53 t	Sep 28	17:32
Oct 6	01:17	Oct 12	16:21	Oct 20	06:34	Oct 28	10:59
Nov 4	11:06	Nov 11	02:10	Nov 19	00:33	Nov 27	02:53
Dec 3	21:01	Dec 10	15:58	Dec 18	19:37	Dec 26	16:24

2128  
00h05m

Jan 2	07:30	Jan 9	09:32	Jan 17	14:22	Jan 25	03:06
Jan 31	18:59	Feb 8	05:41	Feb 16	07:28	Feb 23	11:20
Mar 1	07:41 A	Mar 9	02:33	Mar 16	21:54 n	Mar 23	18:08
Mar 30	21:27	Apr 7	22:24	Apr 15	09:17	Apr 22	00:45
Apr 29	12:01	May 7	15:50	May 14	18:03	May 21	08:22
May 29	03:01	Jun 6	06:05	Jun 13	01:09	Jun 19	17:52
Jun 27	18:10	Jul 5	16:57	Jul 12	07:48	Jul 19	05:47
Jul 27	09:11	Aug 4	00:56	Aug 10	15:11	Aug 17	20:24
Aug 25	23:35 A	Sep 2	07:05	Sep 9	00:15 p	Sep 16	13:39
Sep 24	12:57	Oct 1	12:43	Oct 8	11:42	Oct 16	09:00
Oct 24	01:07	Oct 30	19:16	Nov 7	01:54	Nov 15	05:09
Nov 22	12:21	Nov 29	03:55	Dec 6	18:53	Dec 15	00:17
Dec 21	23:08	Dec 28	15:26				

2129  
00h05m

				Jan 5	13:59	Jan 13	16:40
Jan 20	09:54	Jan 27	05:58	Feb 4	09:44 n	Feb 12	05:27
Feb 18	20:44 T	Feb 25	23:08	Mar 6	04:09	Mar 13	14:53
Mar 20	07:39	Mar 27	18:02	Apr 4	19:41	Apr 11	21:52
Apr 18	18:45	Apr 26	13:22	May 4	07:51	May 11	03:34
May 18	06:31	May 26	07:41	Jun 2	17:17	Jun 9	09:13
Jun 16	19:28	Jun 24	23:46	Jul 2	01:03	Jul 8	15:58
Jul 16	09:55	Jul 24	13:07	Jul 31	08:11 p	Aug 7	00:56
Aug 15	01:33 A	Aug 22	23:54	Aug 29	15:36	Sep 5	13:07
Sep 13	17:33	Sep 21	08:44	Sep 28	00:04	Oct 5	05:06
Oct 13	09:03	Oct 20	16:27	Oct 27	10:19	Nov 4	00:32
Nov 11	23:32	Nov 18	23:52	Nov 25	23:04	Dec 3	21:58
Dec 11	12:56	Dec 18	07:50	Dec 25	14:47		

2130  
00h05m

						Jan 2	19:09
Jan 10	01:20	Jan 16	17:09	Jan 24	09:00 p	Feb 1	14:00
Feb 8	12:41 T	Feb 15	04:34	Feb 23	04:17	Mar 3	05:20
Mar 9	22:52	Mar 16	18:26	Mar 24	22:42	Apr 1	16:52
Apr 8	08:05	Apr 15	10:32	Apr 23	14:51	May 1	01:01
May 7	17:00	May 15	04:01	May 23	04:18	May 30	06:42
Jun 6	02:33	Jun 13	21:47	Jun 21	15:20	Jun 28	11:12
Jul 5	13:39	Jul 13	14:51	Jul 21	00:33 t	Jul 27	16:04
Aug 4	02:47 P	Aug 12	06:37	Aug 19	08:41	Aug 25	22:50
Sep 2	17:55	Sep 10	20:46	Sep 17	16:28	Sep 24	08:54
Oct 2	10:28	Oct 10	09:08	Oct 17	00:47	Oct 23	23:05
Nov 1	03:41	Nov 8	19:40	Nov 15	10:32	Nov 22	17:15

Nov 30 20:44      Dec 8 04:35      Dec 14 22:28      Dec 22 14:13  
 Dec 30 12:44 P

Year            New Moon            First Quarter            Full Moon            Last Quarter  
 Delta T

2131  
 00h05m                            Jan 6 12:31            Jan 13 12:47 t            Jan 21 12:06  
 Jan 29 02:52            Feb 4 20:29            Feb 12 05:04            Feb 20 08:48  
 Feb 27 14:42            Mar 6 05:30            Mar 13 22:23            Mar 22 02:33  
 Mar 29 00:24            Apr 4 16:16            Apr 12 15:40            Apr 20 16:22  
 Apr 27 08:38            May 4 04:59            May 12 08:04            May 20 02:09  
 May 26 16:21            Jun 2 19:29            Jun 10 22:55            Jun 18 08:43  
 Jun 25 00:31 T            Jul 2 11:30            Jul 10 11:51 p            Jul 17 13:25  
 Jul 24 09:57            Aug 1 04:36            Aug 8 22:49            Aug 15 17:52  
 Aug 22 21:19            Aug 30 22:15            Sep 7 08:17            Sep 13 23:39  
 Sep 21 11:05            Sep 29 15:32            Oct 6 17:06            Oct 13 08:05  
 Oct 21 03:23            Oct 29 07:23            Nov 5 02:14            Nov 11 20:04  
 Nov 19 21:47            Nov 27 21:00            Dec 4 12:22            Dec 11 11:51  
 Dec 19 16:56 A            Dec 27 08:07

2132  
 00h05m    Jan 2 23:49 p            Jan 10 07:02  
 Jan 18 11:01            Jan 25 17:11            Feb 1 12:27            Feb 9 04:17  
 Feb 17 02:33            Feb 24 00:59            Mar 2 02:09            Mar 10 01:37  
 Mar 17 15:06            Mar 24 08:28            Mar 31 16:49            Apr 8 20:51  
 Apr 16 01:05            Apr 22 16:25            Apr 30 08:22            May 8 12:33  
 May 15 09:21            May 22 01:37            May 30 00:22 n            Jun 7 00:23  
 Jun 13 16:42 T            Jun 20 12:44            Jun 28 15:58 n            Jul 6 08:59  
 Jul 12 23:57            Jul 20 02:20            Jul 28 06:21            Aug 4 15:26  
 Aug 11 07:57            Aug 18 18:35            Aug 26 19:10            Sep 2 20:56  
 Sep 9 17:38            Sep 17 12:59            Sep 25 06:42            Oct 2 02:42  
 Oct 9 06:01            Oct 17 08:20            Oct 24 17:34            Oct 31 09:57  
 Nov 7 21:42            Nov 16 03:05            Nov 23 04:19 n            Nov 29 19:44  
 Dec 7 16:16 A            Dec 15 19:54            Dec 22 15:10 n            Dec 29 08:52

2133  
 00h05m            Jan 6 12:07            Jan 14 10:01            Jan 21 02:02            Jan 28 01:32  
 Feb 5 07:12            Feb 12 21:10            Feb 19 12:58            Feb 26 20:53  
 Mar 6 23:56            Mar 14 05:39            Mar 21 00:19            Mar 28 17:11  
 Apr 5 13:47            Apr 12 12:12            Apr 19 12:34            Apr 27 12:31  
 May 5 00:55            May 11 17:59            May 19 02:05 p            May 27 05:33  
 Jun 3 09:49 T            Jun 10 00:19            Jun 17 16:40            Jun 25 19:47  
 Jul 2 17:11            Jul 9 08:31            Jul 17 07:51            Jul 25 07:18  
 Jul 31 23:55            Aug 7 19:39            Aug 15 23:02            Aug 23 16:30  
 Aug 30 07:07            Sep 6 10:12            Sep 14 13:51            Sep 21 23:59  
 Sep 28 15:58            Oct 6 03:57            Oct 14 04:07            Oct 21 06:35  
 Oct 28 03:30            Nov 4 23:57            Nov 12 17:40 p            Nov 19 13:26  
 Nov 26 18:11 A            Dec 4 20:44            Dec 12 06:15            Dec 18 21:49  
 Dec 26 11:36

2134  
 00h05m                            Jan 3 16:33            Jan 10 17:44            Jan 17 08:43  
 Jan 25 06:34            Feb 2 09:45            Feb 9 04:12            Feb 15 22:32  
 Feb 24 01:37            Mar 3 23:13            Mar 10 14:03            Mar 17 14:48  
 Mar 25 19:20            Apr 2 08:49            Apr 8 23:51            Apr 16 08:33  
 Apr 24 10:42 P            May 1 15:22            May 8 10:06 t            May 16 02:41  
 May 23 23:13 P            May 30 20:15            Jun 6 21:17            Jun 14 20:20  
 Jun 22 09:01            Jun 29 01:04            Jul 6 09:41            Jul 14 12:43  
 Jul 21 16:53            Jul 28 07:17            Aug 4 23:34            Aug 13 03:14  
 Aug 19 23:58            Aug 26 16:06            Sep 3 15:00            Sep 11 15:31  
 Sep 18 07:28            Sep 25 04:19            Oct 3 07:37            Oct 11 01:38  
 Oct 17 16:24 P            Oct 24 20:16            Nov 2 00:33 t            Nov 9 10:09

Nov 16	03:23	P	Nov 23	15:41	Dec 1	16:36	Dec 8	17:57
Dec 15	16:37		Dec 23	13:21	Dec 31	06:55		

2135  
00h05m

Jan 14	07:59		Jan 22	11:08	Jan 29	19:20	Feb 5	11:12	
Feb 13	01:09		Feb 21	06:37	Feb 28	06:07	Mar 6	21:57	
Mar 14	19:21		Mar 22	22:11	Mar 29	15:42	Apr 5	10:30	
Apr 13	13:17	A	Apr 21	09:30	Apr 28	00:29	p	May 5	00:53
May 13	05:31		May 20	17:18	May 27	08:59	Jun 3	16:55	
Jun 11	19:10		Jun 18	22:51	Jun 25	17:51	Jul 3	10:09	
Jul 11	06:16		Jul 18	03:28	Jul 25	04:03	Aug 2	03:42	
Aug 9	15:35		Aug 16	08:33	Aug 23	16:30	Aug 31	20:33	
Sep 8	00:09		Sep 14	15:22	Sep 22	07:42	Sep 30	11:54	
Oct 7	08:50	T	Oct 14	01:11	Oct 22	01:13	p	Oct 30	01:22
Nov 5	18:14		Nov 12	14:56	Nov 20	19:44	Nov 28	12:57	
Dec 5	04:41		Dec 12	08:51	Dec 20	13:41	Dec 27	22:47	

Year	New Moon	First Quarter	Full Moon	Last Quarter
Delta T				

2136  
00h05m

Jan 3	16:26	Jan 11	05:56	Jan 19	05:53	Jan 26	07:18		
Feb 2	05:49	Feb 10	03:58	Feb 17	19:53	Feb 24	15:06		
Mar 2	20:57	Mar 11	00:30	Mar 18	07:39	n	Mar 24	23:06	
Apr 1	13:26	A	Apr 9	17:53	Apr 16	17:19	n	Apr 23	08:14
May 1	06:14		May 9	07:30	May 16	01:19		May 22	19:18
May 30	22:14		Jun 7	17:36	Jun 14	08:25		Jun 21	08:42
Jun 29	12:46		Jul 7	00:51	Jul 13	15:44		Jul 21	00:20
Jul 29	01:44		Aug 5	06:14	Aug 12	00:30		Aug 19	17:40
Aug 27	13:24		Sep 3	11:04	Sep 10	11:46	n	Sep 18	11:53
Sep 26	00:09	T	Oct 2	16:48	Oct 10	02:05		Oct 18	06:03
Oct 25	10:20		Nov 1	00:58	Nov 8	19:10		Nov 16	23:11
Nov 23	20:20		Nov 30	12:44	Dec 8	13:59		Dec 16	14:15
Dec 23	06:34		Dec 30	04:26					

2137  
00h05m

Jan 21	17:29		Jan 28	23:21	Feb 6	03:16	Feb 13	11:56	
Feb 20	05:24		Feb 27	19:54	Mar 7	19:06	t	Mar 14	19:11
Mar 21	18:24	A	Mar 29	16:15	Apr 6	07:55		Apr 13	01:32
Apr 20	08:19		Apr 28	10:54	May 5	17:48		May 12	08:16
May 19	22:52		May 28	02:47	Jun 4	01:31		Jun 10	16:28
Jun 18	13:49		Jun 26	15:24	Jul 3	08:11		Jul 10	02:55
Jul 18	04:56		Jul 26	00:54	Aug 1	15:04		Aug 8	16:03
Aug 16	19:50		Aug 24	08:02	Aug 30	23:14	t	Sep 7	08:01
Sep 15	10:01	P	Sep 22	13:58	Sep 29	09:30		Oct 7	02:34
Oct 14	23:05		Oct 21	20:04	Oct 28	22:23		Nov 5	22:46
Nov 13	11:00		Nov 20	03:38	Nov 27	14:04		Dec 5	18:55
Dec 12	22:08		Dec 19	13:40	Dec 27	08:16			

2138  
00h05m

Jan 11	08:56		Jan 18	02:35	Jan 26	03:53	Feb 3	03:47	
Feb 9	19:40	P	Feb 16	18:17	Feb 24	23:09	t	Mar 4	14:49
Mar 11	06:22		Mar 18	12:09	Mar 26	16:10		Apr 2	22:49
Apr 9	17:05		Apr 17	07:09	Apr 25	05:55		May 2	04:52
May 9	04:10		May 17	01:58	May 24	16:33		May 31	10:14
Jun 7	16:13		Jun 15	19:15	Jun 23	00:59		Jun 29	16:08
Jul 7	05:45		Jul 15	10:06	Jul 22	08:21		Jul 28	23:43
Aug 5	20:51	P	Aug 13	22:21	Aug 20	15:37	t	Aug 27	10:06
Sep 4	12:56		Sep 12	08:21	Sep 18	23:35		Sep 26	00:09
Oct 4	05:02		Oct 11	16:50	Oct 18	08:58		Oct 25	18:04

Nov 2	20:22	Nov 10	00:32	Nov 16	20:29	Nov 24	14:54
Dec 2	10:33	Dec 9	08:14	Dec 16	10:43	Dec 24	12:38
Dec 31	23:37						

2139 00h05m		Jan 7	16:46	Jan 15	03:44	Jan 23	08:58	
	Jan 30	11:32 T	Feb 6	02:55	Feb 13	22:34 n	Feb 22	02:12
	Feb 28	22:13	Mar 7	15:16	Mar 15	17:28	Mar 23	15:36
	Mar 30	07:41	Apr 6	05:58	Apr 14	10:43	Apr 22	01:19
	Apr 28	16:25	May 5	22:33	May 14	01:26	May 21	08:02
	May 28	01:18	Jun 4	16:05	Jun 12	13:36	Jun 19	12:54
	Jun 26	11:20	Jul 4	09:32	Jul 11	23:42 n	Jul 18	17:20
	Jul 25	23:19 A	Aug 3	02:07	Aug 10	08:25 n	Aug 16	22:55
	Aug 24	13:29	Sep 1	17:22	Sep 8	16:26	Sep 15	07:10
	Sep 23	05:32	Oct 1	06:59	Oct 8	00:33	Oct 14	19:15
	Oct 22	22:44	Oct 30	18:47	Nov 6	09:38	Nov 13	11:33
	Nov 21	16:14	Nov 29	04:43	Dec 5	20:30	Dec 13	07:22
	Dec 21	09:05	Dec 28	13:10				

2140 00h05m				Jan 4	09:37 n	Jan 12	05:04	
	Jan 20	00:21 A	Jan 26	20:58	Feb 3	00:52	Feb 11	02:34
	Feb 18	13:21	Feb 25	05:11	Mar 3	17:34	Mar 11	21:56
	Mar 18	23:57	Mar 25	14:45	Apr 2	10:44	Apr 10	13:45
	Apr 17	08:39	Apr 24	02:09	May 2	03:27	May 10	01:29
	May 16	16:20	May 23	15:27	May 31	19:03	Jun 8	09:33
	Jun 15	00:01	Jun 22	06:30	Jun 30	09:00 p	Jul 7	15:02
	Jul 14	08:37 T	Jul 21	23:02	Jul 29	21:03	Aug 5	19:29
	Aug 12	18:54	Aug 20	16:35	Aug 28	07:23	Sep 4	00:28
	Sep 11	07:26	Sep 19	10:26	Sep 26	16:39	Oct 3	07:30
	Oct 10	22:35	Oct 19	03:28	Oct 26	01:44	Nov 1	17:40
	Nov 9	16:12	Nov 17	18:37	Nov 24	11:28	Dec 1	07:34
	Dec 9	11:21	Dec 17	07:14	Dec 23	22:19 p	Dec 31	01:06

Year Delta T	New Moon	First Quarter	Full Moon	Last Quarter
2141 00h05m	Jan 8 06:19 A	Jan 15 17:22	Jan 22 10:20	Jan 29 21:24
	Feb 6 23:18	Feb 14 01:40	Feb 20 23:20	Feb 28 18:48
	Mar 8 13:18	Mar 15 09:03	Mar 22 13:14	Mar 30 15:11
	Apr 7 00:23	Apr 13 16:26	Apr 21 04:05	Apr 29 08:41
	May 6 09:16	May 13 00:38	May 20 19:42	May 28 22:26
	Jun 4 16:52 P	Jun 11 10:25	Jun 19 11:29 t	Jun 27 08:38
	Jul 4 00:00 P	Jul 10 22:30	Jul 19 02:36	Jul 26 16:10
	Aug 2 07:30	Aug 9 13:21	Aug 17 16:23	Aug 24 22:10
	Aug 31 16:14	Sep 8 06:50	Sep 16 04:45	Sep 23 03:49
	Sep 30 03:13	Oct 8 02:06	Oct 15 16:09	Oct 22 10:19
	Oct 29 17:19	Nov 6 21:38	Nov 14 03:10	Nov 20 18:46
	Nov 28 10:39 P	Dec 6 15:51	Dec 13 14:07 t	Dec 20 06:08
	Dec 28 06:10			

2142 00h05m		Jan 5	07:35	Jan 12	01:02	Jan 18	20:56	
	Jan 27	01:53	Feb 3	20:19	Feb 10	11:49	Feb 17	14:53
	Feb 25	19:53	Mar 5	06:03	Mar 11	22:42	Mar 19	10:41
	Mar 27	11:07	Apr 3	13:20	Apr 10	10:09	Apr 18	06:28
	Apr 25	23:29	May 2	19:10	May 9	22:44	May 18	00:38
	May 25	09:21 T	Jun 1	00:50	Jun 8	12:35 p	Jun 16	16:18
	Jun 23	17:22	Jun 30	07:45	Jul 8	03:26	Jul 16	05:18
	Jul 23	00:19	Jul 29	17:09	Aug 6	18:42	Aug 14	15:50
	Aug 21	07:12	Aug 28	05:54	Sep 5	09:55	Sep 13	00:21
	Sep 19	15:10	Sep 26	22:10	Oct 5	00:46	Oct 12	07:31



Oct 19	01:21	Oct 26	17:21	Nov 3	15:00	Nov 10	14:17
Nov 17	14:31 A	Nov 25	14:09	Dec 3	04:21 p	Dec 9	21:50
Dec 17	06:42	Dec 25	10:51				

2143  
00h05m

				Jan 1	16:31	Jan 8	07:20
Jan 16	01:01	Jan 24	05:41	Jan 31	03:28	Feb 6	19:31
Feb 14	20:06	Feb 22	21:09	Mar 1	13:27	Mar 8	10:22
Mar 16	14:30	Mar 24	08:37	Mar 30	23:00	Apr 7	03:10
Apr 15	07:02	Apr 22	16:28	Apr 29	08:43 n	May 6	20:56
May 14	20:55 A	May 21	21:53	May 28	19:08 n	Jun 5	14:45
Jun 13	08:01	Jun 20	02:27	Jun 27	06:42	Jul 5	07:51
Jul 12	16:46	Jul 19	07:42	Jul 26	19:43	Aug 3	23:32
Aug 11	00:12	Aug 17	15:01	Aug 25	10:25	Sep 2	13:15
Sep 9	07:29	Sep 16	01:25	Sep 24	02:41	Oct 2	00:45
Oct 8	15:45	Oct 15	15:31	Oct 23	19:51 n	Oct 31	10:17
Nov 7	01:47 T	Nov 14	09:22	Nov 22	12:45	Nov 29	18:32
Dec 6	13:58	Dec 14	06:12	Dec 22	04:14	Dec 29	02:27

2144  
00h05m

Jan 5	04:15	Jan 13	04:17	Jan 20	17:41	Jan 27	10:56
Feb 3	20:27	Feb 12	01:13	Feb 19	05:12	Feb 25	20:39
Mar 4	14:03	Mar 12	18:51	Mar 19	15:13	Mar 26	07:59
Apr 3	08:04	Apr 11	08:13	Apr 18	00:10 t	Apr 24	21:06
May 3	01:09 A	May 10	17:38	May 17	08:32	May 24	12:01
Jun 1	16:05	Jun 9	00:08	Jun 15	16:57	Jun 23	04:32
Jul 1	04:27	Jul 8	05:04	Jul 15	02:14	Jul 22	22:02
Jul 30	14:40	Aug 6	09:45	Aug 13	13:24	Aug 21	15:30
Aug 28	23:40	Sep 4	15:34	Sep 12	03:15	Sep 20	07:58
Sep 27	08:24	Oct 3	23:46	Oct 11	19:50 p	Oct 19	22:46
Oct 26	17:35 T	Nov 2	11:29	Nov 10	14:16	Nov 18	11:37
Nov 25	03:37	Dec 2	03:23	Dec 10	08:53	Dec 17	22:31
Dec 24	14:44	Dec 31	23:03				

2145  
00h05m

				Jan 9	02:12	Jan 16	07:43
Jan 23	03:11	Jan 30	20:50	Feb 7	17:23	Feb 14	15:44
Feb 21	17:15	Mar 1	18:18	Mar 9	06:12	Mar 15	23:19
Mar 23	08:52 P	Mar 31	13:18	Apr 7	16:46 t	Apr 14	07:29
Apr 22	01:23	Apr 30	04:46	May 7	01:23	May 13	17:10
May 21	17:43	May 29	16:35	Jun 5	08:41	Jun 12	05:05
Jun 20	08:58	Jun 28	01:14	Jul 4	15:40	Jul 11	19:27
Jul 19	22:46	Jul 27	07:32	Aug 2	23:30	Aug 10	11:59
Aug 18	11:13	Aug 25	12:36	Sep 1	09:25	Sep 9	06:00
Sep 16	22:38 P	Sep 23	17:49	Sep 30	22:15 t	Oct 9	00:34
Oct 16	09:19 P	Oct 23	00:40	Oct 30	14:08	Nov 7	18:40
Nov 14	19:36	Nov 21	10:34	Nov 29	08:21	Dec 7	11:12
Dec 14	05:48	Dec 21	00:17	Dec 29	03:38		

Year	New Moon	First Quarter	Full Moon	Last Quarter
Delta T				

2146  
00h05m

				Jan 6	01:08
Jan 12	16:20	Jan 19	17:38	Jan 27	22:30
Feb 11	03:36	Feb 18	13:22	Feb 26	15:34
Mar 12	15:50 A	Mar 20	09:48	Mar 28	05:52 p
Apr 11	05:02	Apr 19	05:18	Apr 26	17:04
May 10	19:00	May 18	22:35	May 26	01:39
Jun 9	09:34	Jun 17	12:54	Jun 24	08:39
Jul 9	00:34	Jul 17	00:04	Jul 23	15:16
Aug 7	15:43	Aug 15	08:29	Aug 21	22:42
Sep 6	06:32 A	Sep 13	15:05	Sep 20	07:54 p
				Sep 27	20:25

Oct 5	20:29	Oct 12	21:08	Oct 19	19:31	Oct 27	16:09
Nov 4	09:15	Nov 11	03:58	Nov 18	09:53	Nov 26	12:49
Dec 3	20:56	Dec 10	12:43	Dec 18	02:56	Dec 26	08:25

2147 00h05m	Jan 2	07:58	Jan 9	00:06	Jan 16	22:00	Jan 25	01:06
	Jan 31	18:43	Feb 7	14:15	Feb 15	17:37 n	Feb 23	13:59
	Mar 2	05:17 T	Mar 9	06:50	Mar 17	11:51	Mar 24	23:21
	Mar 31	15:44	Apr 8	01:07	Apr 16	03:12	Apr 23	06:07
	Apr 30	02:18	May 7	19:57	May 15	15:15	May 22	11:32
	May 29	13:32	Jun 6	14:02	Jun 14	00:38	Jun 20	16:52
	Jun 28	02:05	Jul 6	06:13	Jul 13	08:26	Jul 19	23:19
	Jul 27	16:22	Aug 4	19:57	Aug 11	15:43 p	Aug 18	08:05
	Aug 26	08:08 A	Sep 3	07:18	Sep 9	23:22 n	Sep 16	20:12
	Sep 25	00:34	Oct 2	16:46	Oct 9	08:05	Oct 16	12:16
	Oct 24	16:38	Nov 1	01:02	Nov 7	18:33	Nov 15	07:57
	Nov 23	07:41	Nov 30	08:49	Dec 7	07:25	Dec 15	05:40
	Dec 22	21:31	Dec 29	16:53				

2148 00h05m					Jan 5	23:03	Jan 14	03:04
	Jan 21	10:06	Jan 28	02:02	Feb 4	17:02 p	Feb 12	22:03
	Feb 19	21:22 T	Feb 26	13:00	Mar 5	11:57	Mar 13	13:23
	Mar 20	07:16	Mar 27	02:12	Apr 4	06:01	Apr 12	00:52
	Apr 18	16:04	Apr 25	17:35	May 3	21:56	May 11	08:56
	May 18	00:32	May 25	10:29	Jun 2	11:17	Jun 9	14:31
	Jun 16	09:40	Jun 24	03:58	Jul 1	22:24	Jul 8	18:56
	Jul 15	20:28	Jul 23	21:06	Jul 31	07:50 t	Aug 6	23:43
	Aug 14	09:30 P	Aug 22	13:16	Aug 29	16:16	Sep 5	06:27
	Sep 13	00:45	Sep 21	04:02	Sep 28	00:25	Oct 4	16:31
	Oct 12	17:39	Oct 20	17:07	Oct 27	09:06	Nov 3	06:45
	Nov 11	11:21	Nov 19	04:17	Nov 25	19:06	Dec 3	01:00
	Dec 11	04:52	Dec 18	13:36	Dec 25	07:05		

2149 00h05m							Jan 1	22:00
	Jan 9	21:11 P	Jan 16	21:38	Jan 23	21:13 t	Jan 31	19:50
	Feb 8	11:25	Feb 15	05:25	Feb 22	13:06	Mar 2	16:25
	Mar 9	23:08	Mar 16	13:59	Mar 24	05:53	Apr 1	10:05
	Apr 8	08:34	Apr 15	00:06	Apr 22	22:41	Apr 30	23:50
	May 7	16:28	May 14	12:08	May 22	14:46	May 30	09:40
	Jun 5	23:52	Jun 13	02:03	Jun 21	05:34	Jun 28	16:20
	Jul 5	07:46 T	Jul 12	17:44	Jul 20	18:40 p	Jul 27	21:10
	Aug 3	17:04	Aug 11	10:51	Aug 19	06:00	Aug 26	01:46
	Sep 2	04:25	Sep 10	04:51	Sep 17	15:57	Sep 24	07:41
	Oct 1	18:19	Oct 9	22:44	Oct 17	01:14	Oct 23	16:14
	Oct 31	10:52	Nov 8	15:18	Nov 15	10:45	Nov 22	04:15
	Nov 30	05:35	Dec 8	05:31	Dec 14	21:08	Dec 21	19:59
	Dec 30	01:01 A						

2150 00h05m			Jan 6	17:01	Jan 13	08:35 p	Jan 20	14:57
	Jan 28	19:16	Feb 5	02:11	Feb 11	20:58	Feb 19	11:53
	Feb 27	10:48	Mar 6	09:49	Mar 13	10:10	Mar 21	08:52
	Mar 28	23:12	Apr 4	16:54	Apr 12	00:14	Apr 20	03:51
	Apr 27	08:58	May 4	00:19	May 11	15:14	May 19	19:30
	May 26	17:00	Jun 2	08:55	Jun 10	06:52 n	Jun 18	07:28
	Jun 25	00:11 T	Jul 1	19:32	Jul 9	22:23 n	Jul 17	16:21
	Jul 24	07:22	Jul 31	08:49	Aug 8	13:01	Aug 15	23:09
	Aug 22	15:22	Aug 30	01:02	Sep 7	02:18	Sep 14	05:01
	Sep 21	01:10	Sep 28	19:43	Oct 6	14:24	Oct 13	11:06
	Oct 20	13:42	Oct 28	15:35	Nov 5	01:49	Nov 11	18:33
	Nov 19	05:33	Nov 27	10:55	Dec 4	12:59 n	Dec 11	04:22

Dec 19 00:14 A Dec 27 04:15

Year	New Moon	First Quarter	Full Moon	Last Quarter
2151 00h05m			Jan 3 00:01 n	Jan 9 17:20
	Jan 17 20:08	Jan 25 18:39	Feb 1 10:49	Feb 8 09:36
	Feb 16 15:10	Feb 24 05:52	Mar 2 21:27	Mar 10 04:24
	Mar 18 07:46	Mar 25 14:13	Apr 1 08:17	Apr 9 00:10
	Apr 16 21:27	Apr 23 20:29	Apr 30 19:57	May 8 19:07
	May 16 08:26	May 23 01:53	May 30 08:55 p	Jun 7 12:03
	Jun 14 17:15 T	Jun 21 07:48	Jun 28 23:09	Jul 7 02:28
	Jul 14 00:38	Jul 20 15:39	Jul 28 14:16	Aug 5 14:24
	Aug 12 07:28	Aug 19 02:33	Aug 27 05:41	Sep 4 00:08
	Sep 10 14:51	Sep 17 17:04	Sep 25 20:59	Oct 3 08:10
	Oct 9 23:54	Oct 17 11:00	Oct 25 11:52	Nov 1 15:13
	Nov 8 11:37	Nov 16 07:21	Nov 24 01:58 p	Nov 30 22:21
	Dec 8 02:23 A	Dec 16 04:31	Dec 23 14:56	Dec 30 06:45
2152 00h05m	Jan 6 19:45	Jan 15 00:39	Jan 22 02:33	Jan 28 17:25
	Feb 5 14:32	Feb 13 18:00	Feb 20 12:53	Feb 27 06:44
	Mar 6 09:17	Mar 14 07:29	Mar 20 22:24	Mar 27 22:20
	Apr 5 02:44	Apr 12 17:00	Apr 19 07:44	Apr 26 15:25
	May 4 17:55 P	May 11 23:23	May 18 17:30 t	May 26 09:04
	Jun 3 06:22 P	Jun 10 04:05	Jun 17 04:13	Jun 25 02:33
	Jul 2 16:14	Jul 9 08:43	Jul 16 16:21	Jul 24 19:07
	Aug 1 00:17	Aug 7 14:46	Aug 15 06:10	Aug 23 10:06
	Aug 30 07:38	Sep 5 23:30	Sep 13 21:48	Sep 21 23:02
	Sep 28 15:26	Oct 5 11:43	Oct 13 14:51	Oct 21 09:50
	Oct 28 00:40 P	Nov 4 03:46	Nov 12 08:19 t	Nov 19 18:54
	Nov 26 11:51 P	Dec 3 23:20	Dec 12 00:52	Dec 19 03:01
	Dec 26 01:07			
2153 00h05m		Jan 2 21:07	Jan 10 15:31	Jan 17 11:07
	Jan 24 16:17	Feb 1 18:57	Feb 9 03:59	Feb 15 20:01
	Feb 23 09:04	Mar 3 14:25	Mar 10 14:36	Mar 17 06:14
	Mar 25 02:47	Apr 2 05:55	Apr 8 23:52	Apr 15 18:06
	Apr 23 20:18 A	May 1 17:11	May 8 08:16 p	May 15 07:47
	May 23 12:19	May 31 01:00	Jun 6 16:23	Jun 13 23:17
	Jun 22 01:58	Jun 29 06:34	Jul 6 00:59	Jul 13 16:17
	Jul 21 13:17	Jul 28 11:14	Aug 4 11:01	Aug 12 09:59
	Aug 19 22:56	Aug 26 16:22	Sep 2 23:27	Sep 11 03:18
	Sep 18 07:54	Sep 24 23:15	Oct 2 14:48	Oct 10 19:20
	Oct 17 17:01 T	Oct 24 09:08	Nov 1 08:40 p	Nov 9 09:32
	Nov 16 02:46	Nov 22 22:55	Dec 1 03:36	Dec 8 21:40
	Dec 15 13:24	Dec 22 16:48	Dec 30 21:53	
2154 00h05m				Jan 7 07:49
	Jan 14 01:07	Jan 21 13:44	Jan 29 14:16	Feb 5 16:21
	Feb 12 14:11	Feb 20 11:32	Feb 28 04:15	Mar 6 23:54
	Mar 14 04:49	Mar 22 07:51	Mar 29 15:50 n	Apr 5 07:24
	Apr 12 20:42 A	Apr 21 01:05	Apr 28 01:14 n	May 4 15:55
	May 12 13:01	May 20 14:41	May 27 08:58	Jun 3 02:20
	Jun 11 04:46	Jun 19 00:55	Jun 25 15:52	Jul 2 15:14
	Jul 10 19:19	Jul 18 08:23	Jul 24 23:04	Aug 1 06:39
	Aug 9 08:34	Aug 16 14:04	Aug 23 07:48	Aug 31 00:04
	Sep 7 20:41	Sep 14 19:09	Sep 21 19:08 n	Sep 29 18:41
	Oct 7 07:59 T	Oct 14 01:07	Oct 21 09:37 n	Oct 29 13:28
	Nov 5 18:40	Nov 12 09:25	Nov 20 02:55	Nov 28 07:14

	Dec 5	05:02	Dec 11	21:10	Dec 19	21:56	Dec 27	22:48
2155 00h05m	Jan 3	15:25	Jan 10	12:41	Jan 18	17:14	Jan 26	11:21
	Feb 2	02:13	Feb 9	07:14	Feb 17	11:21	Feb 24	20:45
	Mar 3	13:46	Mar 11	03:18	Mar 19	03:04 t	Mar 26	03:48
	Apr 2	02:13 A	Apr 9	23:13	Apr 17	15:43	Apr 24	09:46
	May 1	15:32	May 9	17:36	May 17	01:26	May 23	16:01
	May 31	05:34	Jun 8	09:28	Jun 15	09:01	Jun 21	23:44
	Jun 29	20:14	Jul 7	22:19	Jul 14	15:39	Jul 21	09:48
	Jul 29	11:22	Aug 6	08:14	Aug 12	22:35	Aug 19	22:44
	Aug 28	02:35	Sep 4	15:51	Sep 11	06:52 p	Sep 18	14:44
	Sep 26	17:18 A	Oct 3	22:15	Oct 10	17:18	Oct 18	09:35
	Oct 26	06:58	Nov 2	04:43	Nov 9	06:22	Nov 17	06:14
	Nov 24	19:25	Dec 1	12:28	Dec 8	22:09	Dec 17	02:51
	Dec 24	06:54	Dec 30	22:28				

Year            New Moon            First Quarter            Full Moon            Last Quarter  
Delta T

2156 00h06m					Jan 7	16:19	Jan 15	21:21
	Jan 22	17:47	Jan 29	11:05	Feb 6	11:49	Feb 14	12:14
	Feb 21	04:20 P	Feb 28	02:15	Mar 7	06:52 t	Mar 14	23:16
	Mar 21	14:39	Mar 28	19:29	Apr 5	23:41	Apr 13	07:07
	Apr 20	00:51	Apr 27	13:54	May 5	13:17	May 12	12:56
	May 19	11:24	May 27	08:20	Jun 3	23:51	Jun 10	18:01
	Jun 17	23:00	Jun 26	01:34	Jul 3	08:20	Jul 9	23:38
	Jul 17	12:16	Jul 25	16:43	Aug 1	15:49	Aug 8	07:00
	Aug 16	03:22 P	Aug 24	05:28	Aug 30	23:18 t	Sep 6	17:16
	Sep 14	19:45	Sep 22	16:07	Sep 29	07:32	Oct 6	07:21
	Oct 14	12:23	Oct 22	01:12	Oct 28	17:11	Nov 5	01:25
	Nov 13	04:18	Nov 20	09:22	Nov 27	04:51	Dec 4	22:30
	Dec 12	18:58	Dec 19	17:18	Dec 26	19:05		

2157 00h06m							Jan 3	20:28
	Jan 11	08:19	Jan 18	01:47	Jan 25	11:54	Feb 2	16:56
	Feb 9	20:15 T	Feb 16	11:34	Feb 24	06:22 n	Mar 4	10:11
	Mar 11	06:43	Mar 17	23:20	Mar 26	00:53	Apr 2	23:33
	Apr 9	15:49	Apr 16	13:18	Apr 24	17:49	May 2	09:12
	May 9	00:07	May 16	05:14	May 24	08:22	May 31	15:51
	Jun 7	08:35	Jun 14	22:20	Jun 22	20:34	Jun 29	20:40
	Jul 6	18:17	Jul 14	15:42	Jul 22	06:52	Jul 29	01:03
	Aug 5	06:05 A	Aug 13	08:33	Aug 20	15:52 p	Aug 27	06:36
	Sep 3	20:17	Sep 12	00:21	Sep 19	00:16	Sep 25	14:51
	Oct 3	12:35	Oct 11	14:40	Oct 18	08:46	Oct 25	02:59
	Nov 2	06:13	Nov 10	03:08	Nov 16	18:09	Nov 23	19:21
	Dec 2	00:11	Dec 9	13:35	Dec 16	05:09	Dec 23	15:11
	Dec 31	17:25						

2158 00h06m			Jan 7	22:16	Jan 14	18:11 n	Jan 22	12:50
	Jan 30	08:51 A	Feb 6	06:00	Feb 13	09:06	Feb 21	10:12
	Feb 28	21:49	Mar 7	13:52	Mar 15	01:17	Mar 23	05:25
	Mar 30	08:12	Apr 5	22:52	Apr 13	17:55	Apr 21	21:09
	Apr 28	16:36	May 5	09:35	May 13	10:14	May 21	08:54
	May 27	23:58	Jun 3	22:15	Jun 12	01:38	Jun 19	17:04
	Jun 26	07:22	Jul 3	12:52	Jul 11	15:40 p	Jul 18	22:43
	Jul 25	15:48 T	Aug 2	05:15	Aug 10	04:03	Aug 17	03:21
	Aug 24	02:02	Aug 31	23:01	Sep 8	14:51	Sep 15	08:31
	Sep 22	14:39	Sep 30	17:22	Oct 8	00:36	Oct 14	15:40
	Oct 22	06:00	Oct 30	11:05	Nov 6	10:08	Nov 13	01:56

Nov 20	23:54	Nov 29	02:53	Dec 5	20:11	Dec 12	15:48
Dec 20	19:19	Dec 28	15:58				

2159  
00h06m

Jan 19	14:29 A	Jan 27	02:19	Feb 2	18:59	Feb 10	05:08
Feb 18	07:31	Feb 25	10:34	Mar 4	07:34	Mar 12	02:09
Mar 19	21:25	Mar 26	17:39	Apr 2	20:54	Apr 10	22:12
Apr 18	08:18	Apr 25	00:33	May 2	11:09	May 10	15:33
May 17	16:58	May 24	08:11	Jun 1	02:18	Jun 9	05:22
Jun 16	00:24 P	Jun 22	17:27	Jun 30	17:53 t	Jul 8	15:49
Jul 15	07:26 P	Jul 22	05:09	Jul 30	09:07	Aug 6	23:42
Aug 13	14:56	Aug 20	19:50	Aug 28	23:18	Sep 5	06:06
Sep 11	23:46	Sep 19	13:28	Sep 27	12:13	Oct 4	12:08
Oct 11	10:54	Oct 19	09:08	Oct 27	00:11	Nov 2	18:54
Nov 10	01:09	Nov 18	05:14	Nov 25	11:41	Dec 2	03:28
Dec 9	18:37 P	Dec 17	23:58	Dec 24	22:56 t	Dec 31	14:44

Jan 4 07:08 p Jan 11 09:09

2160  
00h06m

Jan 8	14:11	Jan 16	16:05	Jan 23	09:52	Jan 30	05:13
Feb 7	09:51	Feb 15	04:58	Feb 21	20:26	Feb 28	22:39
Mar 8	03:43	Mar 15	14:39	Mar 22	06:53	Mar 29	17:51
Apr 6	18:48	Apr 13	21:43	Apr 20	17:46	Apr 28	13:10
May 6	07:00	May 13	03:13	May 20	05:47	May 28	07:06
Jun 4	16:46 T	Jun 11	08:31	Jun 18	19:12 p	Jun 26	22:50
Jul 4	00:46	Jul 10	15:04	Jul 18	09:51	Jul 26	12:09
Aug 2	07:49	Aug 9	00:12	Aug 17	01:14	Aug 24	23:13
Aug 31	14:52	Sep 7	12:50	Sep 15	16:51	Sep 23	08:19
Sep 29	23:03	Oct 7	05:11	Oct 15	08:15	Oct 22	16:01
Oct 29	09:27	Nov 6	00:38	Nov 13	23:05	Nov 20	23:09
Nov 27	22:46 A	Dec 5	21:47	Dec 13	12:54 p	Dec 20	06:50
Dec 27	14:56						

Year	New Moon	First Quarter	Full Moon	Last Quarter
Delta T				

2161  
00h06m

Jan 26	09:04	Feb 3	13:49	Feb 10	12:13	Feb 17	03:58
Feb 25	03:52	Mar 5	05:21	Mar 11	21:56	Mar 18	18:12
Mar 26	21:57	Apr 3	16:46	Apr 10	07:04	Apr 17	10:18
Apr 25	14:14	May 3	00:30	May 9	16:18 n	May 17	03:29
May 25	04:01 A	Jun 1	05:47	Jun 8	02:16 n	Jun 15	20:59
Jun 23	15:08	Jun 30	10:11	Jul 7	13:29	Jul 15	14:06
Jul 23	00:04	Jul 29	15:17	Aug 6	02:21	Aug 14	06:09
Aug 21	07:45	Aug 27	22:30	Sep 4	17:09	Sep 12	20:28
Sep 19	15:21	Sep 26	08:53	Oct 4	09:45	Oct 12	08:40
Oct 18	23:57	Oct 25	23:03	Nov 3	03:25 n	Nov 10	18:49
Nov 17	10:15 T	Nov 24	17:00	Dec 2	20:51	Dec 10	03:31
Dec 16	22:31	Dec 24	13:57				

2162  
00h06m

Jan 15	12:41	Jan 23	12:05	Jan 31	02:19	Feb 6	19:55
Feb 14	04:32	Feb 22	08:58	Mar 1	13:45	Mar 8	05:12
Mar 15	21:39	Mar 24	02:32	Mar 30	23:29	Apr 6	15:53
Apr 14	15:12	Apr 22	15:51	Apr 29	08:05 p	May 6	04:17
May 14	07:57 A	May 22	01:15	May 28	16:06	Jun 4	18:36
Jun 12	22:48	Jun 20	07:48	Jun 27	00:12	Jul 4	10:45
Jul 12	11:19	Jul 19	12:48	Jul 26	09:17	Aug 3	04:13
Aug 10	21:51	Aug 17	17:35	Aug 24	20:23	Sep 1	22:02
Sep 9	07:15	Sep 15	23:29	Sep 23	10:19	Oct 1	15:07
Oct 8	16:26	Oct 15	07:46	Oct 23	03:11 p	Oct 31	06:37

Jan 1 12:42 Jan 8 11:35

Nov 7 02:01 T	Nov 13 19:32	Nov 21 21:58	Nov 29 20:06
Dec 6 12:20	Dec 13 11:24	Dec 21 16:57	Dec 29 07:26

2163 00h06m	Jan 4 23:29	Jan 12 06:57	Jan 20 10:30	Jan 27 16:47
	Feb 3 11:43	Feb 11 04:30	Feb 19 01:44	Feb 26 00:38
	Mar 5 01:20	Mar 13 01:41	Mar 20 14:26	Mar 27 07:50
	Apr 3 16:22 P	Apr 11 20:28	Apr 19 00:46 t	Apr 25 15:26
	May 3 08:19	May 11 11:51	May 18 09:07	May 25 00:30
	Jun 2 00:17	Jun 9 23:46	Jun 16 16:13	Jun 23 11:51
	Jul 1 15:26	Jul 9 08:38	Jul 15 23:03	Jul 23 01:52
	Jul 31 05:26	Aug 7 15:14	Aug 14 06:50	Aug 21 18:21
	Aug 29 18:18	Sep 5 20:37	Sep 12 16:48	Sep 20 12:38
	Sep 28 06:14 P	Oct 5 02:06	Oct 12 05:46 t	Oct 20 07:43
	Oct 27 17:28 P	Nov 3 09:08	Nov 10 21:51	Nov 19 02:28
	Nov 26 04:11	Dec 2 19:05	Dec 10 16:15	Dec 18 19:32
	Dec 25 14:37			

2164 00h06m		Jan 1 08:41	Jan 9 11:40	Jan 17 09:49
	Jan 24 01:09	Jan 31 01:42	Feb 8 06:33	Feb 15 20:48
	Feb 22 12:08	Feb 29 20:58	Mar 8 23:32	Mar 16 04:49
	Mar 22 23:53 H	Mar 30 16:55	Apr 7 13:40 p	Apr 14 11:00
	Apr 21 12:29	Apr 29 12:02	May 7 00:43	May 13 16:44
	May 21 01:54	May 29 05:11	Jun 5 09:10	Jun 11 23:22
	Jun 19 16:05	Jun 27 19:39	Jul 4 16:06	Jul 11 07:59
	Jul 19 06:58	Jul 27 07:10	Aug 2 22:46	Aug 9 19:18
	Aug 17 22:18	Aug 25 16:05	Sep 1 06:19	Sep 8 09:44
	Sep 16 13:35 A	Sep 23 23:12	Sep 30 15:42 p	Oct 8 03:20
	Oct 16 04:08	Oct 23 05:41	Oct 30 03:30	Nov 6 23:26
	Nov 14 17:28	Nov 21 12:47	Nov 28 17:59	Dec 6 20:34
	Dec 14 05:35	Dec 20 21:36	Dec 28 11:03	

2165 00h06m				Jan 5 16:33
	Jan 12 16:48	Jan 19 08:47	Jan 27 06:00	Feb 4 09:27
	Feb 11 03:28	Feb 17 22:29	Feb 26 01:24 n	Mar 5 22:23
	Mar 12 13:44 T	Mar 19 14:27	Mar 27 19:24	Apr 4 07:39
	Apr 10 23:43	Apr 18 08:04	Apr 26 10:33	May 3 14:15
	May 10 09:46	May 18 02:24	May 25 22:31	Jun 1 19:26
	Jun 8 20:30	Jun 16 20:18	Jun 24 07:55	Jul 1 00:30
	Jul 8 08:43	Jul 16 12:39	Jul 23 15:50	Jul 30 06:44
	Aug 6 22:52	Aug 15 02:49	Aug 21 23:19 n	Aug 28 15:22
	Sep 5 14:49 A	Sep 13 14:47	Sep 20 07:14 n	Sep 27 03:26
	Oct 5 07:41	Oct 13 00:53	Oct 19 16:14	Oct 26 19:36
	Nov 4 00:20	Nov 11 09:42	Nov 18 02:55	Nov 25 15:29
	Dec 3 15:56	Dec 10 17:50	Dec 17 15:51	Dec 25 13:25

Year Delta T	New Moon	First Quarter	Full Moon	Last Quarter
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2166 00h06m	Jan 2 06:07	Jan 9 01:58	Jan 16 07:21	Jan 24 10:58
	Jan 31 18:49	Feb 7 10:53	Feb 15 00:59 p	Feb 23 05:59
	Mar 2 05:57 T	Mar 8 21:20	Mar 16 19:29	Mar 24 21:17
	Mar 31 15:32	Apr 7 09:52	Apr 15 13:10	Apr 23 08:42
	Apr 29 23:56	May 7 00:32	May 15 04:51	May 22 16:43
	May 29 07:59	Jun 5 16:53	Jun 13 18:10	Jun 20 22:17
	Jun 27 16:46	Jul 5 10:07	Jul 13 05:25	Jul 20 02:41
	Jul 27 03:20	Aug 4 03:22	Aug 11 15:09 t	Aug 18 07:28
	Aug 25 16:19 A	Sep 2 19:58	Sep 9 23:57	Sep 16 14:12
	Sep 24 07:44	Oct 2 11:25	Oct 9 08:30	Oct 16 00:18
	Oct 24 00:59	Nov 1 01:12	Nov 7 17:32	Nov 14 14:36

Nov 22 19:08      Nov 30 12:57      Dec 7 03:45      Dec 14 08:52  
Dec 22 13:04      Dec 29 22:38

2167  
00h06m

Jan 21 05:37 P      Jan 28 06:44      Feb 4 05:38 t      Feb 12 03:30  
Feb 19 19:54      Feb 26 14:16      Mar 5 21:02      Mar 13 23:54  
Mar 21 07:27      Mar 27 22:21      Apr 4 13:16      Apr 12 17:25  
Apr 19 16:36      Apr 26 07:50      May 4 05:34      May 12 07:09  
May 19 00:12      May 25 19:12      Jun 2 21:22      Jun 10 17:04  
Jun 17 07:19      Jun 24 08:36      Jul 2 12:08      Jul 9 23:54  
Jul 16 15:03 T      Jul 23 23:59      Aug 1 01:29 t      Aug 8 04:58  
Aug 15 00:16      Aug 22 17:10      Aug 30 13:15      Sep 6 09:47  
Sep 13 11:39      Sep 21 11:33      Sep 28 23:42      Oct 5 15:52  
Oct 13 01:42      Oct 21 06:03      Oct 28 09:29      Nov 4 00:32  
Nov 11 18:30      Nov 19 23:18      Nov 26 19:23      Dec 3 12:35  
Dec 11 13:28      Dec 19 14:04      Dec 26 05:57

2168  
00h06m

Jan 10 09:07 A      Jan 18 01:54      Jan 24 17:20 p      Jan 31 22:51  
Feb 9 03:26      Feb 16 11:06      Feb 23 05:23      Mar 1 19:22  
Mar 9 18:54      Mar 16 18:32      Mar 23 18:04      Mar 31 15:57  
Apr 8 07:08      Apr 15 01:13      Apr 22 07:32      Apr 30 10:42  
May 7 16:42      May 14 08:07      May 21 22:00      May 30 02:18  
Jun 6 00:33      Jun 12 16:12      Jun 20 13:17      Jun 28 14:28  
Jul 5 07:39 T      Jul 12 02:22      Jul 20 04:48 n      Jul 27 23:42  
Aug 3 14:49      Aug 10 15:24      Aug 18 19:44      Aug 26 06:55  
Sep 1 22:55      Sep 9 07:37      Sep 17 09:32      Sep 24 13:12  
Oct 1 08:51      Oct 9 02:36      Oct 16 22:13      Oct 23 19:38  
Oct 30 21:33      Nov 7 22:57      Nov 15 10:10      Nov 22 03:17  
Nov 29 13:31      Dec 7 18:49      Dec 14 21:42 n      Dec 21 13:05  
Dec 29 08:16 A

2169  
00h06m

Jan 6 12:34      Jan 13 08:53 n      Jan 20 01:49  
Jan 28 04:07      Feb 5 03:12      Feb 11 19:33      Feb 18 17:37  
Feb 26 23:01      Mar 6 14:27      Mar 13 05:49      Mar 20 11:49  
Mar 28 15:27      Apr 4 22:39      Apr 11 16:08      Apr 19 07:00  
Apr 27 04:58      May 4 04:39      May 11 03:14      May 19 01:36  
May 26 15:50      Jun 2 09:42      Jun 9 15:42 p      Jun 17 18:28  
Jun 25 00:38 T      Jul 1 15:17      Jul 9 05:38      Jul 17 09:07  
Jul 24 08:05      Jul 30 22:50      Aug 7 20:44      Aug 15 21:31  
Aug 22 15:05      Aug 29 09:34      Sep 6 12:26      Sep 14 07:50  
Sep 20 22:41      Sep 28 00:06      Oct 6 04:14      Oct 13 16:27  
Oct 20 07:59      Oct 27 18:13      Nov 4 19:42      Nov 11 23:58  
Nov 18 19:52      Nov 26 14:52      Dec 4 10:21 p      Dec 11 07:21  
Dec 18 10:41 A      Dec 26 12:21

2170  
00h06m

Jan 2 23:39      Jan 9 15:44  
Jan 17 03:55      Jan 25 08:41      Feb 1 11:19      Feb 8 02:06  
Feb 15 22:25      Feb 24 02:08      Mar 2 21:29      Mar 9 14:51  
Mar 17 16:49      Mar 25 15:36      Apr 1 06:38      Apr 8 05:45  
Apr 16 09:58      Apr 24 01:01      Apr 30 15:30      May 7 22:10  
May 16 00:58 P      May 23 07:18      May 30 00:49 t      Jun 6 15:23  
Jun 14 13:24 P      Jun 21 11:53      Jun 28 11:10      Jul 6 08:43  
Jul 13 23:25      Jul 20 16:23      Jul 27 23:03      Aug 5 01:31  
Aug 12 07:43      Aug 18 22:21      Aug 26 12:52      Sep 3 17:02  
Sep 10 15:23      Sep 17 07:02      Sep 25 04:44      Oct 3 06:40  
Oct 9 23:32      Oct 16 19:17      Oct 24 22:14      Nov 1 18:08  
Nov 8 09:04 P      Nov 15 11:25      Nov 23 16:13 t      Dec 1 03:43  
Dec 7 20:26 P      Dec 15 07:04      Dec 23 09:12      Dec 30 12:07

Year Delta T	New Moon		First Quarter		Full Moon		Last Quarter	
2171 00h06m	Jan	6 09:39	Jan	14 04:54	Jan	22 00:05	Jan	28 20:12
	Feb	5 00:33	Feb	13 02:41	Feb	20 12:33	Feb	27 04:46
	Mar	6 16:52	Mar	14 22:03	Mar	21 22:58	Mar	28 14:25
	Apr	5 10:04	Apr	13 13:29	Apr	20 07:54	Apr	27 01:36
	May	5 03:10 A	May	13 00:44	May	19 15:57 p	May	26 14:36
	Jun	3 18:59	Jun	11 08:36	Jun	17 23:46	Jun	25 05:38
	Jul	3 08:43	Jul	10 14:15	Jul	17 08:08	Jul	24 22:27
	Aug	1 20:17	Aug	8 19:03	Aug	15 18:04	Aug	23 16:20
	Aug	31 06:20	Sep	7 00:18	Sep	14 06:32	Sep	22 10:10
	Sep	29 15:45	Oct	6 07:18	Oct	13 22:05	Oct	22 02:54
	Oct	29 01:19 T	Nov	4 17:14	Nov	12 16:15 p	Nov	20 17:46
	Nov	27 11:24	Dec	4 07:02	Dec	12 11:32	Dec	20 06:25
	Dec	26 22:11						
2172 00h06m			Jan	3 00:49	Jan	11 06:05	Jan	18 16:50
	Jan	25 09:47	Feb	1 21:30	Feb	9 22:34	Feb	17 01:20
	Feb	23 22:29	Mar	2 19:00	Mar	10 12:29	Mar	17 08:35
	Mar	24 12:33	Apr	1 15:02	Apr	8 23:52 n	Apr	15 15:36
	Apr	23 03:50 A	May	1 08:06	May	8 09:02 n	May	14 23:31
	May	22 19:41	May	30 21:44	Jun	6 16:33	Jun	13 09:21
	Jun	21 11:13	Jun	29 08:09	Jul	5 23:18	Jul	12 21:49
	Jul	21 01:51	Jul	28 15:55	Aug	4 06:26	Aug	11 13:02
	Aug	19 15:26	Aug	26 21:57	Sep	2 15:12	Sep	10 06:36
	Sep	18 04:04	Sep	25 03:22	Oct	2 02:40 n	Oct	10 01:38
	Oct	17 15:55 H	Oct	24 09:35	Oct	31 17:19 n	Nov	8 21:00
	Nov	16 03:07	Nov	22 18:00	Nov	30 10:47	Dec	8 15:21
	Dec	15 13:48	Dec	22 05:42	Dec	30 05:56		
2173 00h06m							Jan	7 07:21
	Jan	14 00:16	Jan	20 20:57	Jan	29 01:16	Feb	5 20:05
	Feb	12 10:53	Feb	19 15:03	Feb	27 19:18	Mar	7 05:28
	Mar	13 22:02	Mar	21 10:35	Mar	29 10:53 p	Apr	5 12:17
	Apr	12 09:55 A	Apr	20 06:03	Apr	27 23:22	May	4 17:53
	May	11 22:39	May	20 00:10	May	27 08:57	Jun	2 23:42
	Jun	10 12:13	Jun	18 16:04	Jun	25 16:29	Jul	2 07:00
	Jul	10 02:39	Jul	18 05:12	Jul	24 23:08	Jul	31 16:45
	Aug	8 17:51	Aug	16 15:36	Aug	23 06:10	Aug	30 05:32
	Sep	7 09:25	Sep	14 23:45	Sep	21 14:38 p	Sep	28 21:37
	Oct	7 00:42 A	Oct	14 06:39	Oct	21 01:17	Oct	28 16:45
	Nov	5 14:59	Nov	12 13:29	Nov	19 14:29	Nov	27 13:48
	Dec	5 03:56	Dec	11 21:24	Dec	19 06:19	Dec	27 10:49
2174 00h06m	Jan	3 15:41	Jan	10 07:18	Jan	18 00:23	Jan	26 05:34
	Feb	2 02:35	Feb	8 19:34	Feb	16 19:40	Feb	24 20:34
	Mar	3 12:55 P	Mar	10 10:09	Mar	18 14:27 t	Mar	26 07:33
	Apr	1 22:48 P	Apr	9 02:41	Apr	17 07:02	Apr	24 15:16
	May	1 08:31	May	8 20:30	May	16 20:30	May	23 20:54
	May	30 18:34	Jun	7 14:36	Jun	15 07:04	Jun	22 01:46
	Jun	29 05:46	Jul	7 07:51	Jul	14 15:38	Jul	21 07:10
	Jul	28 18:50	Aug	5 23:20	Aug	12 23:19	Aug	19 14:23
	Aug	27 09:59 P	Sep	4 12:40	Sep	11 07:04 t	Sep	18 00:35
	Sep	26 02:42	Oct	3 23:58	Oct	10 15:37	Oct	17 14:43
	Oct	25 19:52	Nov	2 09:40	Nov	9 01:31	Nov	16 08:56
	Nov	24 12:20	Dec	1 18:17	Dec	8 13:20	Dec	16 06:11
	Dec	24 03:27	Dec	31 02:25				



2175				Jan 7 03:30	Jan 15 04:17
00h06m					
	Jan 22 16:59	Jan 29 10:46	Feb 5 20:01	Feb 14 00:48	
	Feb 21 04:53 T	Feb 27 20:10	Mar 7 14:04 p	Mar 15 18:01	
	Mar 22 15:06	Mar 29 07:18	Apr 6 08:08	Apr 14 07:20	
	Apr 20 23:50	Apr 27 20:33	May 6 00:46	May 13 16:56	
	May 20 07:44	May 27 11:50	Jun 4 15:12	Jun 11 23:35	
	Jun 18 15:51	Jun 26 04:33	Jul 4 03:28	Jul 11 04:25	
	Jul 18 01:17	Jul 25 21:52	Aug 2 14:01	Aug 9 08:49	
	Aug 16 12:57 A	Aug 24 15:02	Aug 31 23:23 p	Sep 7 14:24	
	Sep 15 03:14	Sep 23 07:25	Sep 30 08:12	Oct 6 22:42	
	Oct 14 19:48	Oct 22 22:27	Oct 29 17:06	Nov 5 10:53	
	Nov 13 13:50	Nov 21 11:35	Nov 28 02:47	Dec 5 03:16	
	Dec 13 08:13	Dec 20 22:29	Dec 27 13:52		

Year	New Moon	First Quarter	Full Moon	Last Quarter
Delta T				

2176				Jan 3 23:03
00h06m				
	Jan 12 01:45	Jan 19 07:22	Jan 26 02:44 n	Feb 2 20:33
	Feb 10 17:18 A	Feb 17 14:59	Feb 24 17:15	Mar 3 17:43
	Mar 11 06:10	Mar 17 22:28	Mar 25 08:53	Apr 2 12:44
	Apr 9 16:19	Apr 16 06:53	Apr 24 00:57	May 2 04:22
	May 9 00:25	May 15 16:56	May 23 16:53	May 31 16:11
	Jun 7 07:31	Jun 14 05:01	Jun 22 08:09	Jun 30 00:31
	Jul 6 14:44	Jul 13 19:15	Jul 21 22:20 p	Jul 29 06:24
	Aug 4 23:03 T	Aug 12 11:32	Aug 20 11:05	Aug 27 11:17
	Sep 3 09:18	Sep 11 05:32	Sep 18 22:23	Sep 25 16:41
	Oct 2 22:02	Oct 11 00:25	Oct 18 08:40	Oct 25 00:01
	Nov 1 13:35	Nov 9 18:48	Nov 16 18:39	Nov 23 10:20
	Dec 1 07:43	Dec 9 11:13	Dec 16 04:58	Dec 23 00:07
	Dec 31 03:21			

2177		Jan 8 00:43	Jan 14 15:58 p	Jan 21 17:13
00h06m				
	Jan 29 22:36 A	Feb 6 11:13	Feb 13 03:34	Feb 20 12:48
	Feb 28 15:36	Mar 7 19:22	Mar 14 15:42	Mar 22 09:22
	Mar 30 05:22	Apr 6 02:08	Apr 13 04:27	Apr 21 05:04
	Apr 28 16:04	May 5 08:34	May 12 18:06	May 20 22:17
	May 28 00:34	Jun 3 15:42	Jun 11 08:49	Jun 19 12:13
	Jun 26 07:53 P	Jul 3 00:29	Jul 11 00:16 t	Jul 18 22:58
	Jul 25 14:54 P	Aug 1 11:51	Aug 9 15:40	Aug 17 07:17
	Aug 23 22:28	Aug 31 02:26	Sep 8 06:17	Sep 15 14:08
	Sep 22 07:27	Sep 29 20:14	Oct 7 19:47	Oct 14 20:34
	Oct 21 18:45	Oct 29 16:19	Nov 6 08:20	Nov 13 03:37
	Nov 20 09:08	Nov 28 12:55	Dec 5 20:17	Dec 12 12:16
	Dec 20 02:40 P	Dec 28 08:07		

2178			Jan 4 07:46 t	Jan 10 23:23
00h06m				
	Jan 18 22:11	Jan 27 00:31	Feb 2 18:41	Feb 9 13:28
	Feb 17 17:44	Feb 25 13:29	Mar 4 04:58	Mar 11 06:19
	Mar 19 11:25	Mar 26 23:05	Apr 2 14:56	Apr 10 00:53
	Apr 18 02:18	Apr 25 05:57	May 2 01:17	May 9 19:43
	May 17 14:22	May 24 11:10	May 31 12:46	Jun 8 13:27
	Jun 16 00:06 T	Jun 22 16:09	Jun 30 01:48 p	Jul 8 05:18
	Jul 15 08:10	Jul 21 22:25	Jul 29 16:18	Aug 6 19:01
	Aug 13 15:22	Aug 20 07:20	Aug 28 07:51	Sep 5 06:38
	Sep 11 22:39	Sep 18 19:54	Sep 26 23:53	Oct 4 16:22
	Oct 11 07:06	Oct 18 12:22	Oct 26 15:52	Nov 3 00:36
	Nov 9 17:42	Nov 17 08:03	Nov 25 07:16	Dec 2 08:06

	Dec 9	07:07 A	Dec 17	05:30	Dec 24	21:29 p	Dec 31	15:53
2179 00h06m	Jan 7	23:12	Jan 16	02:45	Jan 23	10:04	Jan 30	01:03
	Feb 6	17:05	Feb 14	21:52	Feb 21	20:53	Feb 28	12:22
	Mar 8	11:31	Mar 16	13:23	Mar 23	06:19	Mar 30	01:55
	Apr 7	05:15	Apr 15	00:45	Apr 21	15:01	Apr 28	17:19
	May 6	21:17	May 14	08:25	May 20	23:48 n	May 28	09:56
	Jun 5	10:59 A	Jun 12	13:36	Jun 19	09:22 n	Jun 27	03:09
	Jul 4	22:12	Jul 11	17:55	Jul 18	20:18	Jul 26	20:21
	Aug 3	07:22	Aug 9	22:56	Aug 17	09:05	Aug 25	12:49
	Sep 1	15:23	Sep 8	06:07	Sep 16	00:01	Sep 24	03:47
	Sep 30	23:21	Oct 7	16:31	Oct 15	16:58	Oct 23	16:41
	Oct 30	08:17	Nov 6	06:44	Nov 14	11:07 n	Nov 22	03:27
	Nov 28	18:49 T	Dec 6	00:46	Dec 14	05:00	Dec 21	12:32
	Dec 28	07:08						

2180 00h06m			Jan 4	21:44	Jan 12	21:11	Jan 19	20:42
	Jan 26	21:07	Feb 3	19:48	Feb 11	10:52	Feb 18	04:49
	Feb 25	12:33	Mar 4	16:35	Mar 11	22:10	Mar 18	13:38
	Mar 26	05:08	Apr 3	10:02	Apr 10	07:38	Apr 16	23:41
	Apr 24	22:11	May 2	23:19	May 9	15:53 p	May 16	11:24
	May 24	14:38 A	Jun 1	08:46	Jun 7	23:35	Jun 15	01:08
	Jun 23	05:27	Jun 30	15:25	Jul 7	07:27	Jul 14	16:58
	Jul 22	18:09	Jul 29	20:33	Aug 5	16:25	Aug 13	10:27
	Aug 21	05:03	Aug 28	01:30	Sep 4	03:30	Sep 12	04:39
	Sep 19	14:55	Sep 26	07:33	Oct 3	17:34	Oct 11	22:22
	Oct 19	00:34	Oct 25	15:56	Nov 2	10:41 p	Nov 10	14:34
	Nov 17	10:34 T	Nov 24	03:44	Dec 2	05:47	Dec 10	04:39
	Dec 16	21:06	Dec 23	19:32				

Year            New Moon            First Quarter            Full Moon            Last Quarter  
Delta T

2181 00h06m					Jan 1	01:03	Jan 8	16:21
	Jan 15	08:14	Jan 22	14:51	Jan 30	18:45	Feb 7	01:47
	Feb 13	20:12	Feb 21	12:05	Mar 1	09:57	Mar 8	09:27
	Mar 15	09:19	Mar 23	08:55	Mar 30	22:30	Apr 6	16:14
	Apr 13	23:45 P	Apr 22	03:28	Apr 29	08:36 t	May 5	23:17
	May 13	15:09 P	May 21	18:48	May 28	16:45	Jun 4	07:46
	Jun 12	06:46	Jun 20	06:50	Jun 26	23:41	Jul 3	18:37
	Jul 11	21:53	Jul 19	16:00	Jul 26	06:28	Aug 2	08:20
	Aug 10	12:07	Aug 17	22:57	Aug 24	14:17	Sep 1	00:49
	Sep 9	01:27	Sep 16	04:43	Sep 23	00:20	Sep 30	19:24
	Oct 8	13:57 P	Oct 15	10:31	Oct 22	13:28 t	Oct 30	15:00
	Nov 7	01:44 P	Nov 13	17:45	Nov 21	05:42	Nov 29	10:20
	Dec 6	12:51	Dec 13	03:43	Dec 21	00:14	Dec 29	03:54

2182 00h06m	Jan 4	23:28	Jan 11	17:08	Jan 19	19:41	Jan 27	18:28
	Feb 3	09:55	Feb 10	09:45	Feb 18	14:30	Feb 26	05:29
	Mar 4	20:35	Mar 12	04:28	Mar 20	07:20	Mar 27	13:22
	Apr 3	07:49 H	Apr 10	23:52	Apr 18	21:19 p	Apr 25	19:15
	May 2	19:50	May 10	18:37	May 18	08:13	May 25	00:36
	Jun 1	08:44	Jun 9	11:40	Jun 16	16:37	Jun 23	06:50
	Jun 30	22:34	Jul 9	02:20	Jul 15	23:34	Jul 22	15:06
	Jul 30	13:23	Aug 7	14:17	Aug 14	06:19	Aug 21	02:12
	Aug 29	04:58	Sep 5	23:44	Sep 12	14:03	Sep 19	16:38
	Sep 27	20:44 A	Oct 5	07:24	Oct 11	23:38 p	Oct 19	10:25
	Oct 27	11:54	Nov 3	14:20	Nov 10	11:38	Nov 18	06:52
	Nov 26	01:48	Dec 2	21:43	Dec 10	02:12	Dec 18	04:22

Dec 25 14:17

2183 00h06m		Jan 1 06:33	Jan 8 19:12	Jan 17 00:38
	Jan 24 01:37	Jan 30 17:28	Feb 7 13:56	Feb 15 17:41
	Feb 22 12:08	Mar 1 06:39	Mar 9 09:03 n	Mar 17 06:38
	Mar 23 22:03 T	Mar 30 21:57	Apr 8 02:46	Apr 15 15:49
	Apr 22 07:34	Apr 29 14:54	May 7 17:45	May 14 22:15
	May 21 17:08	May 29 08:45	Jun 6 05:40	Jun 13 03:15
	Jun 20 03:27	Jun 28 02:30	Jul 5 15:08	Jul 12 08:08
	Jul 19 15:22	Jul 27 19:03	Aug 3 23:14	Aug 10 14:14
	Aug 18 05:28	Aug 26 09:44	Sep 2 06:59 n	Sep 8 22:46
	Sep 16 21:38 A	Sep 24 22:20	Oct 1 15:13 n	Oct 8 10:51
	Oct 16 14:57	Oct 24 09:07	Oct 31 00:32	Nov 7 03:07
	Nov 15 08:09	Nov 22 18:28	Nov 29 11:25	Dec 6 23:08
	Dec 15 00:14	Dec 22 02:55	Dec 29 00:21	

2184 00h07m				Jan 5 21:11
	Jan 13 14:43	Jan 20 11:03	Jan 27 15:38	Feb 4 18:46
	Feb 12 03:28	Feb 18 19:41	Feb 26 08:52 p	Mar 5 13:45
	Mar 12 14:25 T	Mar 19 05:35	Mar 27 02:53	Apr 4 05:00
	Apr 10 23:41	Apr 17 17:25	Apr 25 20:11	May 3 16:23
	May 10 07:42	May 17 07:23	May 25 11:39	Jun 2 00:24
	Jun 8 15:24	Jun 15 23:13	Jun 24 00:59	Jul 1 06:00
	Jul 7 23:53	Jul 15 16:15	Jul 23 12:26	Jul 30 10:28
	Aug 6 10:17	Aug 14 09:41	Aug 21 22:30 t	Aug 28 15:18
	Sep 4 23:16 A	Sep 13 02:46	Sep 20 07:44	Sep 26 22:06
	Oct 4 14:52	Oct 12 18:53	Oct 19 16:43	Oct 26 08:16
	Nov 3 08:28	Nov 11 09:23	Nov 18 02:05	Nov 24 22:35
	Dec 3 03:01	Dec 10 21:41	Dec 17 12:29	Dec 24 16:48

2185 00h07m	Jan 1 21:16	Jan 9 07:40	Jan 16 00:25	Jan 23 13:36
	Jan 31 14:00 P	Feb 7 15:46	Feb 14 13:58 t	Feb 22 11:04
	Mar 2 04:15	Mar 8 23:02	Mar 16 04:52	Mar 24 07:13
	Mar 31 15:37	Apr 7 06:37	Apr 14 20:31	Apr 23 00:35
	Apr 30 00:30	May 6 15:29	May 14 12:20	May 22 14:19
	May 29 07:50	Jun 5 02:13	Jun 13 03:52	Jun 21 00:22
	Jun 27 14:46	Jul 4 15:08	Jul 12 18:40	Jul 20 07:27
	Jul 26 22:22 T	Aug 3 06:19	Aug 11 08:19 t	Aug 18 12:48
	Aug 25 07:34	Sep 1 23:35	Sep 9 20:34	Sep 16 17:54
	Sep 23 19:03	Oct 1 18:22	Oct 9 07:34	Oct 16 00:13
	Oct 23 09:16	Oct 31 13:30	Nov 7 17:50	Nov 14 09:00
	Nov 22 02:16	Nov 30 07:22	Dec 7 04:06	Dec 13 21:01
	Dec 21 21:26	Dec 29 22:38		

Year Delta T	New Moon	First Quarter	Full Moon	Last Quarter
2186 00h07m			Jan 5 14:48	Jan 12 12:25
	Jan 20 17:11 A	Jan 28 10:43	Feb 4 02:03 p	Feb 11 06:42
	Feb 19 11:30	Feb 26 19:55	Mar 5 13:44	Mar 13 02:45
	Mar 21 02:52	Mar 28 03:08	Apr 4 01:51	Apr 11 22:53
	Apr 19 14:56	Apr 26 09:25	May 3 14:44	May 11 17:23
	May 19 00:19	May 25 15:50	Jun 2 04:41	Jun 10 09:00
	Jun 17 08:03	Jun 23 23:27	Jul 1 19:41	Jul 9 21:25
	Jul 16 15:06 T	Jul 23 09:15	Jul 31 11:14 n	Aug 8 07:03
	Aug 14 22:20	Aug 21 22:04	Aug 30 02:30	Sep 6 14:45
	Sep 13 06:34	Sep 20 14:21	Sep 28 16:51	Oct 5 21:31
	Oct 12 16:41	Oct 20 09:37	Oct 28 06:08	Nov 4 04:18
	Nov 11 05:33	Nov 19 06:26	Nov 26 18:36	Dec 3 12:07

	Dec 10	21:36	Dec 19	02:47	Dec 26	06:28 n		
2187 00h07m							Jan 1	21:53
	Jan 9	16:19 A	Jan 17	20:52	Jan 24	17:43 n	Jan 31	10:17
	Feb 8	12:02	Feb 16	11:39	Feb 23	04:12	Mar 2	01:33
	Mar 10	06:43	Mar 17	22:53	Mar 24	14:04	Mar 31	19:06
	Apr 8	22:57	Apr 16	06:56	Apr 22	23:53	Apr 30	13:42
	May 8	12:19	May 15	12:42	May 22	10:27	May 30	07:57
	Jun 6	23:07	Jun 13	17:29	Jun 20	22:27 p	Jun 29	00:48
	Jul 6	07:57 T	Jul 12	22:47	Jul 20	12:09	Jul 28	15:45
	Aug 4	15:33	Aug 11	06:07	Aug 19	03:16	Aug 27	04:40
	Sep 2	22:47	Sep 9	16:44	Sep 17	19:17	Sep 25	15:38
	Oct 2	06:40	Oct 9	07:17	Oct 17	11:37	Oct 25	00:51
	Oct 31	16:12	Nov 8	01:36	Nov 16	03:40	Nov 23	08:49
	Nov 30	04:15	Dec 7	22:30	Dec 15	18:47 p	Dec 22	16:25
	Dec 29	19:03 A						
2188 00h07m			Jan 6	20:11	Jan 14	08:21	Jan 21	00:44
	Jan 28	12:04	Feb 5	16:39	Feb 12	20:02	Feb 19	10:44
	Feb 27	06:12	Mar 6	10:06	Mar 13	05:58	Mar 19	22:52
	Mar 28	00:13	Apr 4	23:32	Apr 11	14:45	Apr 18	13:04
	Apr 26	17:02	May 4	08:54	May 10	23:11	May 18	04:50
	May 26	07:53 P	Jun 2	15:07	Jun 9	08:04 t	Jun 16	21:37
	Jun 24	20:22 P	Jul 1	19:39	Jul 8	18:06	Jul 16	14:53
	Jul 24	06:35	Jul 31	00:06	Aug 7	05:51	Aug 15	07:57
	Aug 22	15:12	Aug 29	06:02	Sep 5	19:42	Sep 14	00:03
	Sep 20	23:14	Sep 27	14:44	Oct 5	11:50	Oct 13	14:23
	Oct 20	07:46	Oct 27	03:01	Nov 4	05:44	Nov 12	02:32
	Nov 18	17:36 P	Nov 25	19:13	Dec 4	00:11 t	Dec 11	12:37
	Dec 18	05:06 P	Dec 25	14:53				
2189 00h07m					Jan 2	17:33	Jan 9	21:13
	Jan 16	18:12	Jan 24	12:39	Feb 1	08:35	Feb 8	05:13
	Feb 15	08:45	Feb 23	10:18	Mar 2	21:00	Mar 9	13:26
	Mar 17	00:33	Mar 25	05:31	Apr 1	07:11	Apr 7	22:30
	Apr 15	17:13	Apr 23	20:52	Apr 30	15:49	May 7	09:00
	May 15	09:54 A	May 23	08:09	May 29	23:33 p	Jun 5	21:23
	Jun 14	01:34	Jun 21	16:07	Jun 28	07:07	Jul 5	11:58
	Jul 13	15:24	Jul 20	21:56	Jul 27	15:20	Aug 4	04:39
	Aug 12	03:19	Aug 19	02:55	Aug 26	01:13	Sep 2	22:46
	Sep 10	13:49	Sep 17	08:21	Sep 24	13:46	Oct 2	17:08
	Oct 9	23:44	Oct 16	15:29	Oct 24	05:31	Nov 1	10:33
	Nov 8	09:44 T	Nov 15	01:30	Nov 22	23:58 p	Dec 1	02:04
	Dec 7	20:08	Dec 14	15:16	Dec 22	19:31	Dec 30	15:11
2190 00h07m	Jan 6	07:00	Jan 13	08:51	Jan 21	14:15	Jan 29	01:48
	Feb 4	18:24	Feb 12	05:13	Feb 20	06:46	Feb 27	10:13
	Mar 6	06:41	Mar 14	02:20	Mar 21	20:35	Mar 28	17:09
	Apr 4	20:11	Apr 12	22:03	Apr 20	07:46 n	Apr 26	23:41
	May 4	10:52 A	May 12	14:58	May 19	16:43 n	May 26	07:03
	Jun 3	02:15	Jun 11	04:40	Jun 18	00:04	Jun 24	16:22
	Jul 2	17:37	Jul 10	15:19	Jul 17	06:45	Jul 24	04:26
	Aug 1	08:24	Aug 8	23:28	Aug 15	13:54	Aug 22	19:31
	Aug 30	22:22	Sep 7	05:54	Sep 13	22:45	Sep 21	13:15
	Sep 29	11:33	Oct 6	11:42	Oct 13	10:22 n	Oct 21	08:42
	Oct 28	23:59 H	Nov 4	18:11	Nov 12	01:10 n	Nov 20	04:37
	Nov 27	11:39	Dec 4	02:42	Dec 11	18:46	Dec 19	23:30
	Dec 26	22:37						

Year Delta T	New Moon	First Quarter	Full Moon	Last Quarter
2191 00h07m		Jan 2 14:18	Jan 10 13:57	Jan 18 15:51
	Jan 25 09:06	Feb 1 05:13	Feb 9 09:13	Feb 17 04:43
	Feb 23 19:29	Mar 2 22:48	Mar 11 03:07	Mar 18 14:02
	Mar 25 06:10	Apr 1 17:44	Apr 9 18:31 p	Apr 16 20:38
	Apr 23 17:30 A	May 1 12:43	May 9 06:52	May 16 01:54
	May 23 05:40	May 31 06:37	Jun 7 16:22	Jun 14 07:21
	Jun 21 18:50	Jun 29 22:35	Jul 6 23:54	Jul 13 14:18
	Jul 21 09:05	Jul 29 12:05	Aug 5 06:39	Aug 11 23:47
	Aug 20 00:23	Aug 27 23:00	Sep 3 13:51	Sep 10 12:29
	Sep 18 16:22	Sep 26 07:44	Oct 2 22:32 p	Oct 10 04:40
	Oct 18 08:13 A	Oct 25 15:09	Nov 1 09:24	Nov 9 00:03
	Nov 16 23:05	Nov 23 22:21	Nov 30 22:44	Dec 8 21:27
	Dec 16 12:29	Dec 23 06:25	Dec 30 14:33	
2192 00h07m				Jan 7 18:46
	Jan 15 00:28	Jan 21 16:09	Jan 29 08:26	Feb 6 13:43
	Feb 13 11:19	Feb 20 04:00	Feb 28 03:24	Mar 7 04:45
	Mar 13 21:23 P	Mar 20 17:57	Mar 28 21:52 t	Apr 5 15:41
	Apr 12 06:51 P	Apr 19 09:47	Apr 27 14:13	May 4 23:17
	May 11 16:05	May 19 03:01	May 27 03:36	Jun 3 04:46
	Jun 10 01:42	Jun 17 20:48	Jun 25 14:12	Jul 2 09:29
	Jul 9 12:33	Jul 17 14:06	Jul 24 22:56	Jul 31 14:45
	Aug 8 01:28	Aug 16 05:58	Aug 23 06:53	Aug 29 21:53
	Sep 6 16:43 P	Sep 14 19:55	Sep 21 14:57 t	Sep 28 08:04
	Oct 6 09:48	Oct 14 07:55	Oct 20 23:50	Oct 27 22:15
	Nov 5 03:28	Nov 12 18:14	Nov 19 10:00	Nov 26 16:35
	Dec 4 20:26	Dec 12 03:16	Dec 18 21:53	Dec 26 13:56
2193 00h07m	Jan 3 11:56	Jan 10 11:32	Jan 17 11:55	Jan 25 12:04
	Feb 2 01:37	Feb 8 19:43	Feb 16 04:05	Feb 24 08:33
	Mar 3 13:25 T	Mar 10 04:40	Mar 17 21:38 p	Mar 26 01:41
	Apr 1 23:21	Apr 8 15:09	Apr 16 15:14	Apr 24 14:56
	May 1 07:44	May 8 03:42	May 16 07:34	May 24 00:33
	May 30 15:17	Jun 6 18:22	Jun 14 21:55	Jun 22 07:15
	Jun 28 23:05	Jul 6 10:44	Jul 14 10:20	Jul 21 12:09
	Jul 28 08:19	Aug 5 04:04	Aug 12 21:12	Aug 19 16:40
	Aug 26 19:56 A	Sep 3 21:36	Sep 11 06:59 p	Sep 17 22:20
	Sep 25 10:20	Oct 3 14:35	Oct 10 16:15	Oct 17 06:43
	Oct 25 03:11	Nov 2 06:20	Nov 9 01:33	Nov 15 18:57
	Nov 23 21:35	Dec 1 20:06	Dec 8 11:29	Dec 15 11:18
	Dec 23 16:18	Dec 31 07:25		
2194 00h07m			Jan 6 22:37	Jan 14 06:57
	Jan 22 10:02	Jan 29 16:25	Feb 5 11:15 n	Feb 13 04:11
	Feb 21 01:38 A	Feb 27 23:52	Mar 7 01:18	Mar 15 01:04
	Mar 22 14:22	Mar 29 06:57	Apr 5 16:21	Apr 13 19:52
	Apr 21 00:17	Apr 27 14:48	May 5 07:53	May 13 11:26
	May 20 08:08	May 27 00:14	Jun 3 23:26	Jun 11 23:21
	Jun 18 15:02	Jun 25 11:47	Jul 3 14:37	Jul 11 07:55
	Jul 17 22:06	Jul 25 01:40	Aug 2 05:00 n	Aug 9 14:07
	Aug 16 06:24 T	Aug 23 17:55	Aug 31 18:11	Sep 7 19:19
	Sep 14 16:42	Sep 22 12:11	Sep 30 06:02	Oct 7 00:59
	Oct 14 05:35	Oct 22 07:35	Oct 29 16:51	Nov 5 08:30
	Nov 12 21:19	Nov 21 02:36	Nov 28 03:15	Dec 4 18:52
	Dec 12 15:38	Dec 20 19:34	Dec 27 13:48	

2195						Jan 3	08:31	
00h07m	Jan 11	11:22	Jan 19	09:25	Jan 26	00:46 p	Feb 2	01:17
	Feb 10	06:38 A	Feb 17	20:01	Feb 24	12:05	Mar 3	20:22
	Mar 11	23:33	Mar 19	04:01	Mar 25	23:43	Apr 2	16:26
	Apr 10	13:10	Apr 17	10:29	Apr 24	11:53	May 2	11:46
	May 9	23:42	May 16	16:30	May 24	00:59	Jun 1	04:52
	Jun 8	08:04	Jun 14	23:10	Jun 22	15:19	Jun 30	18:58
	Jul 7	15:20 P	Jul 14	07:34	Jul 22	06:39 t	Jul 30	06:06
	Aug 5	22:24 T	Aug 12	18:39	Aug 20	22:16	Aug 28	14:54
	Sep 4	06:06	Sep 11	09:10	Sep 19	13:22	Sep 26	22:16
	Oct 3	15:16	Oct 11	03:10	Oct 19	03:28	Oct 26	05:08
	Nov 2	02:45	Nov 9	23:37	Nov 17	16:35	Nov 24	12:27
	Dec 1	17:15	Dec 9	20:41	Dec 17	04:57	Dec 23	21:09
	Dec 31	10:46 P						

Year	New Moon	First Quarter	Full Moon	Last Quarter				
2196		Jan 8	16:15	Jan 15	16:36 t	Jan 22	08:03	
00h07m	Jan 30	06:10	Feb 7	08:52	Feb 14	03:25	Feb 20	21:40
	Feb 29	01:29	Mar 7	21:53	Mar 14	13:23	Mar 21	13:53
	Mar 29	18:56	Apr 6	07:23	Apr 12	22:53	Apr 20	07:48
	Apr 28	09:38	May 5	14:04	May 12	08:43	May 20	02:09
	May 27	21:37	Jun 3	19:03	Jun 10	19:42	Jun 18	19:43
	Jun 26	07:22 T	Jul 2	23:47	Jul 10	08:24 p	Jul 18	11:45
	Jul 25	15:33	Aug 1	05:50	Aug 8	22:50	Aug 17	01:54
	Aug 23	22:58	Aug 30	14:36	Sep 7	14:35	Sep 15	14:09
	Sep 22	06:32	Sep 29	03:09	Oct 7	07:03	Oct 15	00:31
	Oct 21	15:16	Oct 28	19:44	Nov 5	23:36	Nov 13	09:18
	Nov 20	02:05	Nov 27	15:37	Dec 5	15:31	Dec 12	17:08
	Dec 19	15:33 A	Dec 27	13:15				

2197				Jan 4	06:06 p	Jan 11	00:58	
00h07m	Jan 18	07:28	Jan 26	10:38	Feb 2	18:46	Feb 9	09:53
	Feb 17	01:02	Feb 25	05:47	Mar 4	05:27	Mar 10	20:40
	Mar 18	19:02	Mar 26	21:16	Apr 2	14:33	Apr 9	09:32
	Apr 17	12:23	Apr 25	08:34	May 1	22:52	May 9	00:14
	May 17	04:11	May 24	16:12	May 31	07:14 n	Jun 7	16:19
	Jun 15	17:51 A	Jun 22	21:22	Jun 29	16:27 n	Jul 7	09:18
	Jul 15	05:14	Jul 22	01:39	Jul 29	03:11	Aug 6	02:38
	Aug 13	14:42	Aug 20	06:40	Aug 27	15:55	Sep 4	19:33
	Sep 11	23:05	Sep 18	13:52	Sep 26	07:01	Oct 4	11:11
	Oct 11	07:27	Oct 18	00:19	Oct 26	00:19	Nov 3	00:48
	Nov 9	16:44	Nov 16	14:35	Nov 24	18:55 n	Dec 2	12:09
	Dec 9	03:29 T	Dec 16	08:38	Dec 24	13:12	Dec 31	21:34

2198	Jan 7	15:47	Jan 15	05:32	Jan 23	05:37	Jan 30	05:47
00h07m	Feb 6	05:30	Feb 14	03:27	Feb 21	19:20	Feb 28	13:40
	Mar 7	20:27	Mar 16	00:02	Mar 23	06:27	Mar 29	21:59
	Apr 6	12:29	Apr 14	17:22	Apr 21	15:38	Apr 28	07:23
	May 6	05:02	May 14	06:37	May 20	23:36 p	May 27	18:27
	Jun 4	21:12 A	Jun 12	16:10	Jun 19	07:02	Jun 26	07:39
	Jul 4	12:02	Jul 11	23:00	Jul 18	14:44	Jul 25	23:13
	Aug 3	01:00	Aug 10	04:21	Aug 16	23:37	Aug 24	16:46
	Sep 1	12:20	Sep 8	09:31	Sep 15	10:45	Sep 23	11:23
	Sep 30	22:42	Oct 7	15:45	Oct 15	00:58	Oct 23	05:44
	Oct 30	08:51	Nov 6	00:15	Nov 13	18:19 p	Nov 21	22:37
	Nov 28	19:13 T	Dec 5	12:04	Dec 13	13:42	Dec 21	13:14
	Dec 28	05:55						

2199		Jan 4	03:43	Jan 12	09:09	Jan 20	01:13	
00h07m								
	Jan 26	16:59	Feb 2	22:44	Feb 11	02:55	Feb 18	10:41
	Feb 25	04:36	Mar 4	19:33	Mar 12	18:03	Mar 19	18:08
	Mar 26	17:12	Apr 3	15:59	Apr 11	06:25	Apr 18	00:31
	Apr 25	07:01 P	May 3	10:18	May 10	16:19 t	May 17	07:04
	May 24	21:52 P	Jun 2	01:37	Jun 9	00:18	Jun 15	15:01
	Jun 23	13:12	Jul 1	13:50	Jul 8	07:09	Jul 15	01:26
	Jul 23	04:19	Jul 30	23:21	Aug 6	13:56	Aug 13	14:55
	Aug 21	18:52	Aug 29	06:45	Sep 4	21:49	Sep 12	07:25
	Sep 20	08:41	Sep 27	12:55	Oct 4	08:02	Oct 12	02:19
	Oct 19	21:47 P	Oct 26	19:04	Nov 2	21:19 t	Nov 10	22:25
	Nov 18	10:07 P	Nov 25	02:29	Dec 2	13:41	Dec 10	18:15
	Dec 17	21:36	Dec 24	12:27				

2200				Jan 1	08:16	Jan 9	12:14	
00h07m								
	Jan 16	08:20	Jan 23	01:36	Jan 31	03:39	Feb 8	03:01
	Feb 14	18:38	Feb 21	17:44	Mar 1	22:19	Mar 9	14:03
	Mar 16	04:55	Mar 23	11:52	Mar 31	14:59	Apr 7	21:46
	Apr 14	15:38 T	Apr 22	06:42	Apr 30	04:48 p	May 7	03:23
	May 14	03:05	May 22	01:04	May 29	15:36	Jun 5	08:24
	Jun 12	15:30	Jun 20	18:04	Jun 27	23:59	Jul 4	14:18
	Jul 12	05:04	Jul 20	08:58	Jul 27	07:01	Aug 2	22:17
	Aug 10	19:52	Aug 18	21:25	Aug 25	13:57	Sep 1	09:14
	Sep 9	11:44	Sep 17	07:28	Sep 23	21:54	Sep 30	23:41
	Oct 9	04:01 A	Oct 16	15:43	Oct 23	07:44 p	Oct 30	17:39
	Nov 7	19:46	Nov 14	23:07	Nov 21	19:54	Nov 29	14:24
	Dec 7	10:12	Dec 14	06:44	Dec 21	10:30	Dec 29	12:12

Year            New Moon            First Quarter            Full Moon            Last Quarter  
Delta T

2201	Jan 5	23:00	Jan 12	15:32	Jan 20	03:21	Jan 28	08:40
00h07m								
	Feb 4	10:23	Feb 11	02:08	Feb 18	21:47	Feb 27	01:48
	Mar 5	20:43	Mar 12	14:45	Mar 20	16:33 n	Mar 28	14:44
	Apr 4	06:15 T	Apr 11	05:20	Apr 19	09:58	Apr 26	23:49
	May 3	15:19	May 10	21:37	May 19	00:48	May 26	06:09
	Jun 2	00:26	Jun 9	15:02	Jun 17	12:43	Jun 24	11:02
	Jul 1	10:23	Jul 9	08:40	Jul 16	22:20	Jul 23	15:48
	Jul 30	22:05	Aug 8	01:28	Aug 15	06:40	Aug 21	21:49
	Aug 29	12:11	Sep 6	16:42	Sep 13	14:45 n	Sep 20	06:19
	Sep 28	04:35 A	Oct 6	06:00	Oct 12	23:20 n	Oct 19	18:26
	Oct 27	22:21	Nov 4	17:27	Nov 11	08:57	Nov 18	10:47
	Nov 26	16:04	Dec 4	03:19	Dec 10	20:00	Dec 18	06:53
	Dec 26	08:34						

2202			Jan 2	12:01	Jan 9	08:53	Jan 17	04:57
00h07m								
	Jan 24	23:17	Jan 31	20:07	Feb 7	23:52	Feb 16	02:30
	Feb 23	12:01	Mar 2	04:24	Mar 9	16:38 p	Mar 17	21:23
	Mar 24	22:45 T	Mar 31	13:45	Apr 8	10:08	Apr 16	12:33
	Apr 23	07:41	Apr 30	00:53	May 8	03:02	May 15	23:54
	May 22	15:22	May 29	14:11	Jun 6	18:20	Jun 14	07:59
	Jun 20	22:46	Jun 28	05:33	Jul 6	07:43	Jul 13	13:41
	Jul 20	07:02	Jul 27	22:26	Aug 4	19:26	Aug 11	18:17
	Aug 18	17:19	Aug 26	16:04	Sep 3	05:55 t	Sep 9	23:15
	Sep 17	06:21 A	Sep 25	09:40	Oct 2	15:37	Oct 9	06:09
	Oct 16	22:10	Oct 25	02:28	Nov 1	01:02	Nov 7	16:23
	Nov 15	16:05	Nov 23	17:38	Nov 30	10:44	Dec 7	06:42
	Dec 15	10:58	Dec 23	06:27	Dec 29	21:16		

2203						Jan 6	00:49	
00h07m								
	Jan 14	05:28	Jan 21	16:40	Jan 28	09:04	Feb 4	21:22
	Feb 12	22:18 P	Feb 20	00:44	Feb 26	22:15 t	Mar 6	18:30
	Mar 14	12:28	Mar 21	07:42	Mar 28	12:35	Apr 5	14:22
	Apr 12	23:38	Apr 19	14:47	Apr 27	03:38	May 5	07:35
	May 12	08:17	May 18	23:03	May 26	19:00	Jun 3	21:21
	Jun 10	15:24	Jun 17	09:13	Jun 25	10:19	Jul 3	07:37
	Jul 9	22:11	Jul 16	21:43	Jul 25	01:12	Aug 1	15:01
	Aug 8	05:44 P	Aug 15	12:43	Aug 23	15:12 t	Aug 30	20:43
	Sep 6	14:59 P	Sep 14	06:07	Sep 22	03:59	Sep 29	02:08
	Oct 6	02:36	Oct 14	01:20	Oct 21	15:32	Oct 28	08:41
	Nov 4	16:59	Nov 12	21:02	Nov 20	02:18	Nov 26	17:36
	Dec 4	10:10	Dec 12	15:30	Dec 19	12:53	Dec 26	05:33

2204	Jan 3	05:26	Jan 11	07:11	Jan 17	23:39	Jan 24	20:40
00h07m								
	Feb 2	01:12 A	Feb 9	19:27	Feb 16	10:42 p	Feb 23	14:29
	Mar 2	19:26	Mar 10	04:37	Mar 16	21:58	Mar 24	09:59
	Apr 1	10:40	Apr 8	11:35	Apr 15	09:32	Apr 23	05:40
	Apr 30	22:34	May 7	17:31	May 14	21:49	May 22	23:55
	May 30	07:49	Jun 5	23:31	Jun 13	11:18	Jun 21	15:36
	Jun 28	15:30	Jul 5	06:43	Jul 13	02:05	Jul 21	04:19
	Jul 27	22:34 T	Aug 3	16:12	Aug 11	17:43 n	Aug 19	14:26
	Aug 26	05:56	Sep 2	04:53	Sep 10	09:22	Sep 17	22:41
	Sep 24	14:21	Oct 1	21:14	Oct 10	00:17	Oct 17	05:56
	Oct 24	00:41	Oct 31	16:48	Nov 8	14:10	Nov 15	13:05
	Nov 22	13:41	Nov 30	14:01	Dec 8	03:07	Dec 14	21:03
	Dec 22	05:46	Dec 30	10:45				

2205					Jan 6	15:16 n	Jan 13	06:42
00h07m								
	Jan 21	00:22 A	Jan 29	05:06	Feb 5	02:31 n	Feb 11	18:44
	Feb 19	19:52	Feb 27	19:59	Mar 6	12:45	Mar 13	09:24
	Mar 21	14:17	Mar 29	07:09	Apr 4	22:12	Apr 12	02:16
	Apr 20	06:18	Apr 27	15:04	May 4	07:31	May 11	20:17
	May 19	19:32	May 26	20:39	Jun 2	17:35	Jun 10	14:13
	Jun 18	06:19	Jun 25	01:13	Jul 2	05:12 p	Jul 10	07:06
	Jul 17	15:15 T	Jul 24	06:19	Jul 31	18:42	Aug 8	22:23
	Aug 15	23:04	Aug 22	13:30	Aug 30	09:55	Sep 7	11:53
	Sep 14	06:35	Sep 21	00:03	Sep 29	02:17	Oct 6	23:31
	Oct 13	14:46	Oct 20	14:40	Oct 28	19:08	Nov 5	09:21
	Nov 12	00:34	Nov 19	09:07	Nov 27	11:43	Dec 4	17:46
	Dec 11	12:44	Dec 19	06:12	Dec 27	03:16 p		

Year            New Moon            First Quarter            Full Moon            Last Quarter  
Delta T

2206							Jan 3	01:32
00h07m								
	Jan 10	03:27 A	Jan 18	04:01	Jan 25	17:01	Feb 1	09:43
	Feb 8	20:10	Feb 17	00:30	Feb 24	04:39	Mar 2	19:17
	Mar 10	13:52	Mar 18	17:55	Mar 25	14:19	Apr 1	06:48
	Apr 9	07:27	Apr 17	07:17	Apr 23	22:44	Apr 30	20:17
	May 8	23:58	May 16	16:38	May 23	06:46	May 30	11:25
	Jun 7	14:42 P	Jun 14	22:51	Jun 21	15:18 t	Jun 29	03:50
	Jul 7	03:16 P	Jul 14	03:23	Jul 21	01:05	Jul 28	21:03
	Aug 5	13:45	Aug 12	07:52	Aug 19	12:44	Aug 27	14:27
	Sep 3	22:45	Sep 10	13:50	Sep 18	02:40	Sep 26	07:09
	Oct 3	07:12	Oct 9	22:35	Oct 17	19:04	Oct 25	22:12



Nov 1	16:07	Nov 8	10:56	Nov 16	13:22	Nov 24	11:00
Dec 1	02:14 P	Dec 8	03:09	Dec 16	08:14 t	Dec 23	21:32
Dec 30	13:49 P						

2207  
00h07m

		Jan 6	22:45	Jan 15	01:53	Jan 22	06:19
Jan 29	02:45	Feb 5	20:21	Feb 13	17:01	Feb 20	14:11
Feb 27	16:53	Mar 7	17:46	Mar 15	05:20	Mar 21	21:59
Mar 29	08:07	Apr 6	12:49	Apr 13	15:16	Apr 20	06:29
Apr 28	00:14	May 6	04:06	May 12	23:37	May 19	16:20
May 27	16:32 A	Jun 4	15:26	Jun 11	07:06 p	Jun 18	04:08
Jun 26	08:05	Jul 3	23:34	Jul 10	14:28	Jul 17	18:20
Jul 25	22:05	Aug 2	05:38	Aug 8	22:36	Aug 16	10:56
Aug 24	10:23	Aug 31	10:52	Sep 7	08:30	Sep 15	05:19
Sep 22	21:23	Sep 29	16:31	Oct 6	21:10	Oct 15	00:14
Oct 22	07:49	Oct 28	23:50	Nov 5	13:07	Nov 13	18:18
Nov 20	18:16 T	Nov 27	09:55	Dec 5	07:48 p	Dec 13	10:25
Dec 20	04:56	Dec 26	23:35				

2208  
00h07m

				Jan 4	03:33	Jan 11	23:56
Jan 18	15:49	Jan 25	16:54	Feb 2	22:22	Feb 10	10:41
Feb 17	02:59	Feb 24	12:51	Mar 3	14:51	Mar 10	18:59
Mar 17	14:48	Mar 25	09:31	Apr 2	04:31	Apr 9	01:36
Apr 16	03:41	Apr 24	04:53	May 1	15:30 n	May 8	07:40
May 15	17:47 A	May 23	21:42	May 31	00:17 n	Jun 6	14:31
Jun 14	08:46	Jun 22	11:30	Jun 29	07:33	Jul 5	23:23
Jul 14	00:01	Jul 21	22:28	Jul 28	14:13	Aug 4	11:08
Aug 12	14:58	Aug 20	07:03	Aug 26	21:26	Sep 3	02:08
Sep 11	05:23	Sep 18	13:57	Sep 25	06:26	Oct 2	20:03
Oct 10	19:09	Oct 17	20:10	Oct 24	18:13 n	Nov 1	15:55
Nov 9	08:09 H	Nov 16	02:55	Nov 23	09:10 n	Dec 1	12:20
Dec 8	20:16	Dec 15	11:30	Dec 23	02:49	Dec 31	07:39

2209  
00h08m

Jan 7	07:28	Jan 13	22:56	Jan 21	21:57	Jan 30	00:17
Feb 5	17:54	Feb 12	13:27	Feb 20	17:05	Feb 28	13:14
Mar 7	03:59	Mar 14	06:26	Mar 22	10:47	Mar 29	22:27
Apr 5	14:12	Apr 13	00:46	Apr 21	02:00 p	Apr 28	04:51
May 5	00:59 H	May 12	19:16	May 20	14:13	May 27	09:50
Jun 3	12:38	Jun 11	12:57	Jun 18	23:42	Jun 25	14:58
Jul 3	01:26	Jul 11	05:03	Jul 18	07:18	Jul 24	21:38
Aug 1	15:33	Aug 9	18:57	Aug 16	14:13	Aug 23	06:56
Aug 31	07:01	Sep 8	06:27	Sep 14	21:39	Sep 21	19:35
Sep 29	23:25	Oct 7	15:49	Oct 14	06:35 p	Oct 21	11:53
Oct 29	15:51 A	Nov 5	23:47	Nov 12	17:40	Nov 20	07:30
Nov 28	07:18	Dec 5	07:19	Dec 12	07:06	Dec 20	05:11
Dec 27	21:06						

2210  
00h08m

		Jan 3	15:28	Jan 10	22:48	Jan 19	02:42
Jan 26	09:13	Feb 2	01:00	Feb 9	16:25	Feb 17	21:45
Feb 24	19:58	Mar 3	12:21	Mar 11	11:01	Mar 19	12:47
Mar 26	05:43 P	Apr 2	01:39	Apr 10	05:08 t	Apr 17	23:39
Apr 24	14:46 P	May 1	16:47	May 9	21:15	May 17	07:10
May 23	23:34	May 31	09:26	Jun 8	10:34	Jun 15	12:35
Jun 22	08:47	Jun 30	02:57	Jul 7	21:17	Jul 14	17:13
Jul 21	19:22	Jul 29	20:21	Aug 6	06:15	Aug 12	22:25
Aug 20	08:11	Aug 28	12:40	Sep 4	14:31	Sep 11	05:31
Sep 18	23:35 P	Sep 27	03:16	Oct 3	22:58 t	Oct 10	15:43
Oct 18	17:01	Oct 26	15:59	Nov 2	08:11	Nov 9	05:57
Nov 17	11:11	Nov 25	02:54	Dec 1	18:35	Dec 9	00:21
Dec 17	04:37	Dec 24	12:18	Dec 31	06:31		

Year Delta T	New Moon	First Quarter	Full Moon	Last Quarter
2211 00h08m				Jan 7 21:43
	Jan 15 20:24	Jan 22 20:39	Jan 29 20:19	Feb 6 19:47
	Feb 14 10:09	Feb 21 04:37	Feb 28 12:03	Mar 8 16:09
	Mar 15 21:49 T	Mar 22 13:05	Mar 30 05:05 p	Apr 7 09:10
	Apr 14 07:28	Apr 20 22:55	Apr 28 22:12	May 6 22:23
	May 13 15:31	May 20 10:47	May 28 14:15	Jun 5 08:02
	Jun 11 22:46	Jun 19 00:53	Jun 27 04:34	Jul 4 14:52
	Jul 11 06:20	Jul 18 16:57	Jul 26 17:11	Aug 2 19:56
	Aug 9 15:26	Aug 17 10:20	Aug 25 04:25	Sep 1 00:36
	Sep 8 03:03 A	Sep 16 04:15	Sep 23 14:41 p	Sep 30 06:25
	Oct 7 17:35	Oct 15 21:52	Oct 23 00:26	Oct 29 14:54
	Nov 6 10:42	Nov 14 14:18	Nov 21 10:07	Nov 28 03:09
	Dec 6 05:25	Dec 14 04:39	Dec 20 20:16	Dec 27 19:25
2212 00h08m	Jan 5 00:24	Jan 12 16:20	Jan 19 07:22	Jan 26 14:50
	Feb 3 18:17	Feb 11 01:24	Feb 17 19:43 n	Feb 25 11:45
	Mar 4 09:50 A	Mar 11 08:39	Mar 18 09:15 n	Mar 26 08:17
	Apr 2 22:25	Apr 9 15:20	Apr 16 23:42	Apr 25 02:50
	May 2 08:07	May 8 22:37	May 16 14:42	May 24 18:22
	May 31 15:46	Jun 7 07:29	Jun 15 05:55	Jun 23 06:25
	Jun 29 22:30	Jul 6 18:33	Jul 14 21:03	Jul 22 15:18
	Jul 29 05:31	Aug 5 08:09	Aug 13 11:41 n	Aug 20 21:53
	Aug 27 13:50 T	Sep 4 00:24	Sep 12 01:21	Sep 19 03:26
	Sep 26 00:15	Oct 3 18:59	Oct 11 13:47	Oct 18 09:25
	Oct 25 13:18	Nov 2 14:54	Nov 10 01:09	Nov 16 17:07
	Nov 24 05:12	Dec 2 10:29	Dec 9 11:56	Dec 16 03:30
	Dec 23 23:37			
2213 00h08m		Jan 1 03:56	Jan 7 22:40	Jan 14 16:57
	Jan 22 19:23	Jan 30 18:03	Feb 6 09:32 p	Feb 13 09:18
	Feb 21 14:34 A	Mar 1 04:41	Mar 7 20:30	Mar 15 03:50
	Mar 23 07:21	Mar 30 12:33	Apr 6 07:37	Apr 13 23:21
	Apr 21 20:48	Apr 28 18:43	May 5 19:12	May 13 18:19
	May 21 07:12	May 28 00:21	Jun 4 07:47	Jun 12 11:21
	Jun 19 15:30	Jun 26 06:37	Jul 3 21:47	Jul 12 01:40
	Jul 18 22:46	Jul 25 14:41	Aug 2 13:04 t	Aug 10 13:14
	Aug 17 05:57 T	Aug 24 01:34	Sep 1 04:57	Sep 8 22:35
	Sep 15 13:51	Sep 22 16:04	Sep 30 20:34	Oct 8 06:30
	Oct 14 23:14	Oct 22 10:15	Oct 30 11:16	Nov 6 13:49
	Nov 13 10:54	Nov 21 07:04	Nov 29 00:56	Dec 5 21:24
	Dec 13 01:28	Dec 21 04:29	Dec 28 13:39	
2214 00h08m				Jan 4 06:06
	Jan 11 18:55 P	Jan 20 00:21	Jan 27 01:24 t	Feb 2 16:43
	Feb 10 14:05	Feb 18 17:06	Feb 25 12:04	Mar 4 05:48
	Mar 12 09:07	Mar 20 06:07	Mar 26 21:41	Apr 2 21:20
	Apr 11 02:18	Apr 18 15:32	Apr 25 06:44	May 2 14:36
	May 10 16:49	May 17 22:03	May 24 16:03	Jun 1 08:30
	Jun 9 04:45	Jun 16 02:52	Jun 23 02:37	Jul 1 01:56
	Jul 8 14:35 T	Jul 15 07:26	Jul 22 15:02 t	Jul 30 18:11
	Aug 6 22:58	Aug 13 13:19	Aug 21 05:26	Aug 29 08:50
	Sep 5 06:40	Sep 11 22:01	Sep 19 21:26	Sep 27 21:44
	Oct 4 14:34	Oct 11 10:34	Oct 19 14:21	Oct 27 08:47

Nov 2	23:35	Nov 10	03:15	Nov 18	07:26	Nov 25	18:06
Dec 2	10:36	Dec 9	23:17	Dec 17	23:50	Dec 25	02:12

2215 00h08m	Jan 1	00:03 A	Jan 8	21:02	Jan 16	14:42 p	Jan 23	10:02
	Jan 30	15:44	Feb 7	18:26	Feb 15	03:24	Feb 21	18:39
	Mar 1	08:53	Mar 9	13:32	Mar 16	13:54	Mar 23	04:53
	Mar 31	02:25	Apr 8	04:58	Apr 14	22:41	Apr 21	17:03
	Apr 29	19:22	May 7	16:14	May 14	06:36	May 21	07:04
	May 29	10:57	Jun 5	23:53	Jun 12	14:37 n	Jun 19	22:40
	Jun 28	00:39 A	Jul 5	05:05	Jul 11	23:33 n	Jul 19	15:27
	Jul 27	12:15	Aug 3	09:26	Aug 10	10:08	Aug 18	08:57
	Aug 25	22:05	Sep 1	14:31	Sep 8	22:54	Sep 17	02:22
	Sep 24	06:54	Sep 30	21:46	Oct 8	14:11	Oct 16	18:41
	Oct 23	15:41	Oct 30	08:17	Nov 7	07:49	Nov 15	09:01
	Nov 22	01:18	Nov 28	22:35	Dec 7	02:48 n	Dec 14	20:55
	Dec 21	12:13 T	Dec 28	16:35				

Year	New Moon	First Quarter	Full Moon	Last Quarter
Delta T				

2216 00h08m			Jan 5	21:25	Jan 13	06:37
	Jan 20	00:27	Jan 27	13:19	Feb 4	13:59
	Feb 18	13:49	Feb 26	10:59	Mar 5	03:40
	Mar 19	04:16	Mar 27	07:20	Apr 3	14:36
	Apr 17	19:41	Apr 26	00:31	May 2	23:31
	May 17	11:46	May 25	13:48	Jun 1	07:13 p
	Jun 16	03:41 A	Jun 23	23:29	Jun 30	14:27
	Jul 15	18:34	Jul 23	06:33	Jul 29	22:03
	Aug 14	07:52	Aug 21	12:12	Aug 28	06:57
	Sep 12	19:41	Sep 19	17:38	Sep 26	18:10
	Oct 12	06:35	Oct 19	00:06	Oct 26	08:32
	Nov 10	17:14	Nov 17	08:43	Nov 25	02:06 p
	Dec 10	03:57 T	Dec 16	20:31	Dec 24	21:40

2217 00h08m					Jan 1	21:48
	Jan 8	14:46	Jan 15	11:57	Jan 23	17:13
	Feb 7	01:41	Feb 14	06:34	Feb 22	10:58
	Mar 8	12:55	Mar 16	02:53	Mar 24	01:59
	Apr 7	00:57	Apr 14	22:54	Apr 22	14:11
	May 6	14:10 P	May 14	16:59	May 21	23:55 t
	Jun 5	04:32 P	Jun 13	08:19	Jun 20	07:47
	Jul 4	19:36	Jul 12	20:47	Jul 19	14:37
	Aug 3	10:47	Aug 11	06:43	Aug 17	21:28
	Sep 2	01:40	Sep 9	14:36	Sep 16	05:30
	Oct 1	16:02	Oct 8	21:15	Oct 15	15:53
	Oct 31	05:44 P	Nov 7	03:44	Nov 14	05:20 t
	Nov 29	18:34 P	Dec 6	11:20	Dec 13	21:47
	Dec 29	06:22				

2218 00h08m		Jan 4	21:14	Jan 12	16:19	Jan 20	20:32	
	Jan 27	17:10	Feb 3	10:03	Feb 11	11:33	Feb 19	11:27
	Feb 26	03:15	Mar 5	01:39	Mar 13	06:01	Mar 20	22:28
	Mar 27	13:09	Apr 3	19:07	Apr 11	22:28	Apr 19	06:02
	Apr 25	23:20 T	May 3	13:23	May 11	12:08 p	May 18	11:25
	May 25	10:16	Jun 2	07:25	Jun 9	22:54	Jun 16	16:10
	Jun 23	22:15	Jul 2	00:24	Jul 9	07:20	Jul 15	21:47
	Jul 23	11:35	Jul 31	15:37	Aug 7	14:31	Aug 14	05:33

Aug 22	02:25	Aug 30	04:35	Sep 5	21:40	Sep 12	16:25
Sep 20	18:36	Sep 28	15:17	Oct 5	05:53	Oct 12	06:55
Oct 20	11:25 A	Oct 28	00:09	Nov 3	15:59 p	Nov 11	01:03
Nov 19	03:45	Nov 26	07:59	Dec 3	04:18	Dec 10	22:02
Dec 18	18:39	Dec 25	15:48				

2219  
00h08m

				Jan 1	18:52	Jan 9	20:02
Jan 17	07:42	Jan 24	00:31	Jan 31	11:29	Feb 8	16:37
Feb 15	19:05	Feb 22	10:44	Mar 2	05:33	Mar 10	09:46
Mar 17	05:10	Mar 23	22:45	Mar 31	23:54 n	Apr 8	22:39
Apr 15	14:20 T	Apr 22	12:37	Apr 30	17:01	May 8	07:40
May 14	22:59	May 22	04:15	May 30	07:43	Jun 6	13:57
Jun 13	07:41	Jun 20	21:15	Jun 28	19:41	Jul 5	18:47
Jul 12	17:20	Jul 20	14:49	Jul 28	05:31	Aug 3	23:31
Aug 11	04:52	Aug 19	07:56	Aug 26	14:10	Sep 2	05:31
Sep 9	19:01	Sep 17	23:44	Sep 24	22:37 n	Oct 1	14:02
Oct 9	11:42 A	Oct 17	13:45	Oct 24	07:35 n	Oct 31	02:12
Nov 8	05:54	Nov 16	01:52	Nov 22	17:30	Nov 29	18:36
Dec 8	00:05	Dec 15	12:13	Dec 22	04:40	Dec 29	14:42

2220  
00h08m

Jan 6	16:56	Jan 13	21:08	Jan 20	17:26	Jan 28	12:42
Feb 5	07:47	Feb 12	05:08	Feb 19	08:03	Feb 27	10:06
Mar 5	20:27	Mar 12	13:02	Mar 20	00:17 p	Mar 28	04:50
Apr 4	06:57 T	Apr 10	21:48	Apr 18	17:15	Apr 26	19:55
May 3	15:35	May 10	08:15	May 18	09:46	May 26	07:18
Jun 1	22:58	Jun 8	20:56	Jun 17	00:55	Jun 24	15:29
Jul 1	06:07	Jul 8	11:52	Jul 16	14:26	Jul 23	21:23
Jul 30	14:14	Aug 7	04:39	Aug 15	02:28	Aug 22	02:10
Aug 29	00:29	Sep 5	22:32	Sep 13	13:24 p	Sep 20	07:19
Sep 27	13:36 A	Oct 5	16:40	Oct 12	23:37	Oct 19	14:22
Oct 27	05:37	Nov 4	10:09	Nov 11	09:29	Nov 18	00:40
Nov 25	23:50	Dec 4	01:58	Dec 10	19:29	Dec 17	14:56
Dec 25	18:58						

Year  
Delta T

New Moon      First Quarter      Full Moon      Last Quarter

2221  
00h08m

		Jan 2	15:14	Jan 9	06:05	Jan 16	08:51
Jan 24	13:39	Feb 1	01:37	Feb 7	17:41	Feb 15	05:04
Feb 23	06:29 P	Mar 2	09:36	Mar 9	06:25 t	Mar 17	01:48
Mar 24	20:32	Mar 31	16:15	Apr 7	20:10	Apr 15	21:21
Apr 23	07:31	Apr 29	22:51	May 7	10:39	May 15	14:25
May 22	15:57	May 29	06:33	Jun 6	01:34	Jun 14	04:16
Jun 20	22:55	Jun 27	16:12	Jul 5	16:43	Jul 13	14:48
Jul 20	05:37	Jul 27	04:21	Aug 4	07:44	Aug 11	22:35
Aug 18	13:11 P	Aug 25	19:14	Sep 2	22:09 t	Sep 10	04:42
Sep 16	22:32 P	Sep 24	12:48	Oct 2	11:29	Oct 9	10:29
Oct 16	10:18	Oct 24	08:26	Oct 31	23:38	Nov 7	17:19
Nov 15	00:52	Nov 23	04:41	Nov 30	10:52	Dec 7	02:18
Dec 14	18:09	Dec 22	23:40	Dec 29	21:42		

2222  
00h08m

						Jan 5	14:08
Jan 13	13:27	Jan 21	15:41	Jan 28	08:29	Feb 4	04:55
Feb 12	09:08 A	Feb 20	04:05	Feb 26	19:17 p	Mar 5	22:12
Mar 14	03:14	Mar 21	13:10	Mar 28	06:05	Apr 4	17:06
Apr 12	18:17	Apr 19	19:55	Apr 26	17:06	May 4	12:18
May 12	06:03	May 19	01:31	May 26	04:50	Jun 3	06:21

Jun 10	15:14	Jun 17	07:09	Jun 24	17:54	Jul 2	22:08
Jul 9	22:54	Jul 16	14:01	Jul 24	08:30	Aug 1	11:13
Aug 8	06:05 T	Aug 14	23:15	Aug 23	00:16 n	Aug 30	21:52
Sep 6	13:38	Sep 13	11:50	Sep 21	16:21	Sep 29	06:42
Oct 5	22:17	Oct 13	04:17	Oct 21	07:51	Oct 28	14:28
Nov 4	08:49	Nov 12	00:07	Nov 19	22:19	Nov 26	21:59
Dec 3	21:57	Dec 11	21:41	Dec 19	11:42	Dec 26	06:04

2223  
00h08m

Jan 2	14:00	Jan 10	18:43	Jan 18	00:03 n	Jan 24	15:33
Feb 1	08:24 A	Feb 9	13:14	Feb 16	11:14 n	Feb 23	03:08
Mar 3	03:35	Mar 11	04:09	Mar 17	21:12	Mar 24	17:09
Apr 1	21:42	Apr 9	15:17	Apr 16	06:13	Apr 23	09:19
May 1	13:28	May 8	23:04	May 15	15:03	May 23	02:46
May 31	02:37	Jun 7	04:31	Jun 14	00:41	Jun 21	20:25
Jun 29	13:26	Jul 6	08:57	Jul 13	11:58 n	Jul 21	13:22
Jul 28	22:33 T	Aug 4	13:55	Aug 12	01:20	Aug 20	05:04
Aug 27	06:39	Sep 2	21:00	Sep 10	16:40	Sep 18	19:10
Sep 25	14:30	Oct 2	07:32	Oct 10	09:24	Oct 18	07:30
Oct 24	23:01	Oct 31	22:13	Nov 9	02:46	Nov 16	17:57
Nov 23	09:03	Nov 30	16:47	Dec 8	19:51	Dec 16	02:46
Dec 22	21:18	Dec 30	13:57				

2224  
00h08m

				Jan 7	11:45 p	Jan 14	10:39
Jan 21	11:51 A	Jan 29	11:47	Feb 6	01:38	Feb 12	18:39
Feb 20	04:12	Feb 28	08:14	Mar 6	13:09	Mar 13	03:46
Mar 20	21:25	Mar 29	01:34	Apr 4	22:33	Apr 11	14:37
Apr 19	14:32	Apr 27	14:53	May 4	06:37	May 11	03:24
May 19	06:44	May 27	00:14	Jun 2	14:17	Jun 9	17:57
Jun 17	21:24	Jun 25	06:31	Jul 1	22:32 t	Jul 9	10:02
Jul 17	10:08 P	Jul 24	11:09	Jul 31	08:08	Aug 8	03:16
Aug 15	20:57	Aug 22	15:43	Aug 29	19:44	Sep 6	21:02
Sep 14	06:23	Sep 20	21:47	Sep 28	09:48	Oct 6	14:21
Oct 13	15:17	Oct 20	06:36	Oct 28	02:28	Nov 5	06:07
Nov 12	00:36	Nov 18	19:00	Nov 26	21:08	Dec 4	19:32
Dec 11	10:58 P	Dec 18	11:11	Dec 26	16:20 t		

2225  
00h08m

						Jan 3	06:28
Jan 9	22:33 P	Jan 17	06:38	Jan 25	10:11	Feb 1	15:22
Feb 8	11:15	Feb 16	03:58	Feb 24	01:21	Mar 2	23:03
Mar 10	00:55	Mar 18	01:06	Mar 25	13:31	Apr 1	06:27
Apr 8	15:34	Apr 16	19:56	Apr 23	23:13	Apr 30	14:22
May 8	07:07	May 16	11:10	May 23	07:18	May 29	23:36
Jun 6	23:03 A	Jun 14	22:37	Jun 21	14:35 p	Jun 28	10:53
Jul 6	14:32	Jul 14	06:59	Jul 20	21:51	Jul 28	00:45
Aug 5	04:47	Aug 12	13:21	Aug 19	05:58	Aug 26	17:19
Sep 3	17:31	Sep 10	18:54	Sep 17	15:56	Sep 25	11:59
Oct 3	05:04	Oct 10	00:50	Oct 17	04:44	Oct 25	07:27
Nov 1	16:02	Nov 8	08:20	Nov 15	20:52	Nov 24	02:09
Dec 1	02:53 T	Dec 7	18:27	Dec 15	15:43 p	Dec 23	18:48
Dec 30	13:46						

Year  
Delta T

New Moon      First Quarter      Full Moon      Last Quarter

2226  
00h08m

		Jan 6	07:58	Jan 14	11:35	Jan 22	08:38
Jan 29	00:36	Feb 5	00:57	Feb 13	06:24	Feb 20	19:28
Feb 27	11:28	Mar 6	20:24	Mar 14	22:47	Mar 22	03:37
Mar 28	22:47	Apr 5	16:33	Apr 13	12:17	Apr 20	09:55

Apr 27	11:05	May 5	11:35	May 12	23:07 n	May 19	15:35
May 27	00:38 A	Jun 4	04:18	Jun 11	07:46 n	Jun 17	21:59
Jun 25	15:15	Jul 3	18:16	Jul 10	15:00	Jul 17	06:26
Jul 25	06:25	Aug 2	05:37	Aug 8	21:44	Aug 15	17:56
Aug 23	21:37	Aug 31	14:42	Sep 7	05:06	Sep 14	08:54
Sep 22	12:30	Sep 29	22:07	Oct 6	14:16	Oct 14	03:01
Oct 22	02:51	Oct 29	04:45	Nov 5	02:14 n	Nov 12	23:16
Nov 20	16:26 A	Nov 27	11:45	Dec 4	17:18 n	Dec 12	20:08
Dec 20	04:57	Dec 26	20:23				

2227  
00h08m

				Jan 3	10:56	Jan 11	15:48
Jan 18	16:18	Jan 25	07:36	Feb 2	05:56	Feb 10	08:38
Feb 17	02:37	Feb 23	21:38	Mar 4	00:49	Mar 11	21:37
Mar 18	12:23	Mar 25	13:58	Apr 2	18:17	Apr 10	06:44
Apr 16	22:07	Apr 24	07:39	May 2	09:19 p	May 9	12:56
May 16	08:22 H	May 24	01:41	May 31	21:27	Jun 7	17:42
Jun 14	19:34	Jun 22	19:13	Jun 30	06:58	Jul 6	22:35
Jul 14	08:03	Jul 22	11:29	Jul 29	14:43	Aug 5	05:02
Aug 12	22:06	Aug 21	01:51	Aug 27	21:51	Sep 3	14:13
Sep 11	13:46	Sep 19	13:59	Sep 26	05:33	Oct 3	02:51
Oct 11	06:36	Oct 19	00:00	Oct 25	14:47 p	Nov 1	19:16
Nov 9	23:37 A	Nov 17	08:30	Nov 24	02:04	Dec 1	15:05
Dec 9	15:35	Dec 16	16:22	Dec 23	15:32	Dec 31	12:56

2228  
00h08m

Jan 8	05:43	Jan 15	00:32	Jan 22	07:05	Jan 30	10:35
Feb 6	17:55	Feb 13	09:49	Feb 21	00:21	Feb 29	05:39
Mar 7	04:31	Mar 13	20:38	Mar 21	18:30	Mar 29	20:39
Apr 5	13:56 P	Apr 12	09:14	Apr 20	12:14 t	Apr 28	07:28
May 4	22:35 P	May 11	23:40	May 20	04:08	May 27	14:57
Jun 3	06:58	Jun 10	15:48	Jun 18	17:27	Jun 25	20:20
Jul 2	15:53	Jul 10	09:05	Jul 18	04:20	Jul 25	00:57
Aug 1	02:15	Aug 9	02:38	Aug 16	13:36	Aug 23	06:10
Aug 30	15:02	Sep 7	19:26	Sep 14	22:14	Sep 21	13:17
Sep 29	06:36 P	Oct 7	10:43	Oct 14	07:05 t	Oct 20	23:32
Oct 29	00:24 P	Nov 6	00:08	Nov 12	16:40	Nov 19	13:49
Nov 27	19:00	Dec 5	11:37	Dec 12	03:15	Dec 19	08:13
Dec 27	12:50						

2229  
00h08m

		Jan 3	21:21	Jan 10	15:09	Jan 18	05:31
Jan 26	04:50	Feb 2	05:44	Feb 9	04:41	Feb 17	03:25
Feb 24	18:36	Mar 3	13:26	Mar 10	19:56	Mar 18	23:35
Mar 26	06:05 T	Apr 1	21:24	Apr 9	12:23 p	Apr 17	16:29
Apr 24	15:27	May 1	06:36	May 9	05:02	May 17	05:41
May 23	23:13	May 30	17:48	Jun 7	20:49	Jun 15	15:26
Jun 22	06:13	Jun 29	07:23	Jul 7	11:10	Jul 14	22:27
Jul 21	13:37	Jul 28	23:12	Aug 6	00:02	Aug 13	03:44
Aug 19	22:39	Aug 27	16:41	Sep 4	11:42	Sep 11	08:38
Sep 18	10:18 A	Sep 26	11:02	Oct 3	22:29 p	Oct 10	14:38
Oct 18	01:01	Oct 26	05:16	Nov 2	08:44	Nov 8	23:14
Nov 16	18:22	Nov 24	22:22	Dec 1	18:47	Dec 8	11:29
Dec 16	13:20	Dec 24	13:15	Dec 31	05:06		

2230  
00h08m

						Jan 7	03:36
Jan 15	08:30	Jan 23	01:12	Jan 29	16:06	Feb 5	22:42
Feb 14	02:26	Feb 21	10:18	Feb 28	04:05 n	Mar 7	19:11
Mar 15	17:55 A	Mar 22	17:20	Mar 29	17:05 n	Apr 6	15:20
Apr 14	06:19	Apr 20	23:35	Apr 28	06:56	May 6	09:39
May 13	15:50	May 20	06:22	May 27	21:25	Jun 5	01:09
Jun 11	23:19	Jun 18	14:42	Jun 26	12:21	Jul 4	13:26

Jul 11	05:58	Jul 18	01:21	Jul 26	03:30	Aug 2	22:40
Aug 9	12:58	Aug 16	14:45	Aug 24	18:26 n	Sep 1	05:42
Sep 7	21:23 T	Sep 15	07:02	Sep 23	08:37	Sep 30	11:41
Oct 7	07:58	Oct 15	01:55	Oct 22	21:39	Oct 29	17:59
Nov 5	21:11	Nov 13	22:19	Nov 21	09:33	Nov 28	01:52
Dec 5	13:12	Dec 13	18:26	Dec 20	20:41	Dec 27	12:13

Year Delta T	New Moon		First Quarter		Full Moon		Last Quarter	
2231 00h08m	Jan 4	07:39	Jan 12	12:17	Jan 19	07:31	Jan 26	01:24
	Feb 3	03:20	Feb 11	02:36	Feb 17	18:13 p	Feb 24	17:15
	Mar 4	22:23 A	Mar 12	13:14	Mar 19	04:49	Mar 26	11:11
	Apr 3	14:59	Apr 10	20:56	Apr 17	15:25	Apr 25	06:08
	May 3	04:17	May 10	02:50	May 17	02:26	May 25	00:45
	Jun 1	14:35	Jun 8	08:08	Jun 15	14:33	Jun 23	17:45
	Jun 30	22:52	Jul 7	14:05	Jul 15	04:15	Jul 23	08:21
	Jul 30	06:14	Aug 5	21:52	Aug 13	19:32 p	Aug 21	20:25
	Aug 28	13:35 T	Sep 4	08:37	Sep 12	11:44	Sep 20	06:21
	Sep 26	21:44	Oct 3	23:08	Oct 12	03:53	Oct 19	14:51
	Oct 26	07:21	Nov 2	17:30	Nov 10	19:11	Nov 17	22:37
	Nov 24	19:11	Dec 2	14:37	Dec 10	09:22	Dec 17	06:25
	Dec 24	09:47						
2232 00h08m			Jan 1	12:20	Jan 8	22:22	Jan 15	15:04
	Jan 23	03:03 P	Jan 31	08:24	Feb 7	10:10 t	Feb 14	01:21
	Feb 21	21:55	Mar 1	01:13	Mar 7	20:38	Mar 14	13:51
	Mar 22	16:36	Mar 30	14:11	Apr 6	05:52	Apr 13	04:40
	Apr 21	09:29	Apr 28	23:31	May 5	14:27	May 12	21:17
	May 20	23:52	May 28	05:57	Jun 3	23:20	Jun 11	14:46
	Jun 19	11:47	Jun 26	10:39	Jul 3	09:32	Jul 11	08:07
	Jul 18	21:46 T	Jul 25	15:06	Aug 1	21:45 t	Aug 10	00:38
	Aug 17	06:25	Aug 23	20:55	Aug 31	12:10	Sep 8	15:50
	Sep 15	14:28	Sep 22	05:34	Sep 30	04:25	Oct 8	05:26
	Oct 14	22:42	Oct 21	18:10	Oct 29	21:48	Nov 6	17:09
	Nov 13	08:02	Nov 20	10:56	Nov 28	15:23	Dec 6	02:58
	Dec 12	19:11	Dec 20	07:03	Dec 28	08:12		
2233 00h09m							Jan 4	11:19
	Jan 11	08:34 A	Jan 19	04:48	Jan 26	23:16 p	Feb 2	19:05
	Feb 9	23:58	Feb 18	02:09	Feb 25	11:57	Mar 4	03:21
	Mar 11	16:37	Mar 19	21:09	Mar 26	22:13	Apr 2	13:00
	Apr 10	09:39	Apr 18	12:30	Apr 25	06:40	May 2	00:28
	May 10	02:12	May 17	23:46	May 24	14:15	May 31	13:51
	Jun 8	17:37	Jun 16	07:28	Jun 22	21:57 n	Jun 30	04:59
	Jul 8	07:23 A	Jul 15	12:48	Jul 22	06:41 n	Jul 29	21:38
	Aug 6	19:17	Aug 13	17:16	Aug 20	17:11	Aug 28	15:21
	Sep 5	05:32	Sep 11	22:28	Sep 19	06:01	Sep 27	09:17
	Oct 4	14:49	Oct 11	05:50	Oct 18	21:30	Oct 27	02:18
	Nov 3	00:02	Nov 9	16:25	Nov 17	15:27	Nov 25	17:18
	Dec 2	09:59	Dec 9	06:43	Dec 17	10:46 n	Dec 25	05:42
	Dec 31	21:00 T						
2234 00h09m			Jan 8	00:35	Jan 16	05:38	Jan 23	15:37
	Jan 30	09:05	Feb 6	21:03	Feb 14	22:17	Feb 21	23:46
	Feb 28	22:04	Mar 8	18:24	Mar 16	11:52	Mar 23	07:02
	Mar 30	11:57	Apr 7	14:28	Apr 14	22:36	Apr 21	14:21

Apr 29	02:47	May 7	07:31	May 14	07:17	May 20	22:32
May 28	18:23	Jun 5	20:50	Jun 12	14:46 p	Jun 19	08:26
Jun 27	10:07 A	Jul 5	06:44	Jul 11	21:52	Jul 18	20:45
Jul 27	01:07	Aug 3	14:08	Aug 10	05:26	Aug 17	11:56
Aug 25	14:47	Sep 1	20:07	Sep 8	14:23	Sep 16	05:45
Sep 24	03:08	Oct 1	01:53	Oct 8	01:44	Oct 16	01:14
Oct 23	14:36	Oct 30	08:35	Nov 6	16:17	Nov 14	20:48
Nov 22	01:43	Nov 28	17:19	Dec 6	10:00 p	Dec 14	14:53
Dec 21	12:44 T	Dec 28	05:02				

2235  
00h09m

				Jan 5	05:40	Jan 13	06:22
Jan 19	23:37	Jan 26	20:11	Feb 4	01:14	Feb 11	18:46
Feb 18	10:19	Feb 25	14:20	Mar 5	18:54	Mar 13	04:10
Mar 19	21:08	Mar 27	10:06	Apr 4	09:46	Apr 11	11:08
Apr 18	08:35	Apr 26	05:40	May 3	21:48	May 10	16:46
May 17	21:13 P	May 25	23:32	Jun 2	07:24 t	Jun 8	22:25
Jun 16	11:08 P	Jun 24	14:55	Jul 1	15:14	Jul 8	05:30
Jul 16	02:00	Jul 24	03:43	Jul 30	22:07	Aug 6	15:14
Aug 14	17:18	Aug 22	14:07	Aug 29	05:05	Sep 5	04:24
Sep 13	08:34	Sep 20	22:33	Sep 27	13:19	Oct 4	21:05
Oct 12	23:30	Oct 20	05:42	Oct 26	23:53	Nov 3	16:35
Nov 11	13:48 P	Nov 18	12:32	Nov 25	13:29 t	Dec 3	13:33
Dec 11	03:07 P	Dec 17	20:17	Dec 25	05:57		

Year  
Delta T

New Moon                      First Quarter                      Full Moon                      Last Quarter

2236  
00h09m

						Jan 2	10:13
Jan 9	15:10	Jan 16	06:03	Jan 24	00:22	Feb 1	04:46
Feb 8	01:57	Feb 14	18:29	Feb 22	19:22	Mar 1	19:46
Mar 8	11:47	Mar 15	09:28	Mar 23	13:33	Mar 31	06:43
Apr 6	21:15	Apr 14	02:16	Apr 22	05:47	Apr 29	14:10
May 6	06:56 T	May 13	19:57	May 21	19:19 p	May 28	19:21
Jun 4	17:23	Jun 12	13:41	Jun 20	06:05	Jun 26	23:53
Jul 4	05:00	Jul 12	06:41	Jul 19	14:39	Jul 26	05:18
Aug 2	18:10	Aug 10	22:16	Aug 17	22:03	Aug 24	12:56
Sep 1	09:05	Sep 9	11:50	Sep 16	05:29	Sep 22	23:45
Oct 1	01:37	Oct 8	23:12	Oct 15	14:01	Oct 22	14:19
Oct 30	18:57 A	Nov 7	08:40	Nov 14	00:21 p	Nov 21	08:36
Nov 29	11:50	Dec 6	16:56	Dec 13	12:47	Dec 21	05:45
Dec 29	03:09						

2237  
00h09m

		Jan 5	00:55	Jan 12	03:16	Jan 20	03:51
Jan 27	16:22	Feb 3	09:29	Feb 10	19:34	Feb 19	00:28
Feb 26	03:41	Mar 4	19:16	Mar 12	13:12	Mar 20	17:34
Mar 27	13:30	Apr 3	06:39	Apr 11	07:06 n	Apr 19	06:24
Apr 25	22:18 T	May 2	19:48	May 10	23:55 n	May 18	15:24
May 25	06:33	Jun 1	10:49	Jun 9	14:31	Jun 16	21:40
Jun 23	14:55	Jul 1	03:26	Jul 9	02:37	Jul 16	02:31
Jul 23	00:19	Jul 30	20:59	Aug 7	12:42	Aug 14	07:18
Aug 21	11:46	Aug 29	14:28	Sep 5	21:44	Sep 12	13:20
Sep 20	02:00	Sep 28	06:53	Oct 5	06:36 n	Oct 11	21:55
Oct 19	18:57 A	Oct 27	21:36	Nov 3	15:58 n	Nov 10	10:08
Nov 18	13:33	Nov 26	10:22	Dec 3	02:09	Dec 10	02:32
Dec 18	08:09	Dec 25	21:10				

2238  
00h09m

				Jan 1	13:23	Jan 8	22:34
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Jan 17	01:17	Jan 24	06:13	Jan 31	01:58	Feb 7	20:23
Feb 15	16:12	Feb 22	14:05	Mar 1	16:09	Mar 9	17:34
Mar 17	04:45	Mar 23	21:35	Mar 31	07:49 p	Apr 8	12:07
Apr 15	15:01 T	Apr 22	05:45	Apr 30	00:14	May 8	03:08
May 14	23:22	May 21	15:33	May 29	16:23	Jun 6	14:34
Jun 13	06:30	Jun 20	03:39	Jun 28	07:26	Jul 5	22:57
Jul 12	13:28	Jul 19	18:13	Jul 27	21:07	Aug 4	05:05
Aug 10	21:30	Aug 18	10:57	Aug 26	09:33	Sep 2	10:08
Sep 9	07:46	Sep 17	05:07	Sep 24	21:00 p	Oct 1	15:31
Oct 8	21:00 A	Oct 16	23:48	Oct 24	07:44	Oct 30	22:44
Nov 7	13:15	Nov 15	17:56	Nov 22	18:02	Nov 29	09:05
Dec 7	07:41	Dec 15	10:20	Dec 22	04:17	Dec 28	23:16

2239	Jan 6	03:01	Jan 13	23:59	Jan 20	14:53	Jan 27	16:53
00h09m	Feb 4	21:45	Feb 12	10:30	Feb 19	02:14	Feb 26	12:41
	Mar 6	14:33 P	Mar 13	18:21	Mar 20	14:29 t	Mar 28	08:58
	Apr 5	04:27	Apr 12	00:40	Apr 19	03:39	Apr 27	04:11
	May 4	15:14	May 11	06:49	May 18	17:33	May 26	21:08
	Jun 2	23:32	Jun 9	14:00	Jun 17	08:05	Jun 25	11:06
	Jul 2	06:24	Jul 8	23:13	Jul 16	23:07	Jul 24	21:58
	Jul 31	13:06	Aug 7	11:03	Aug 15	14:19	Aug 23	06:13
	Aug 29	20:44 P	Sep 6	01:52	Sep 14	05:11 t	Sep 21	12:47
	Sep 28	06:14 P	Oct 5	19:38	Oct 13	19:07	Oct 20	18:58
	Oct 27	18:11	Nov 4	15:40	Nov 12	07:50	Nov 19	02:04
	Nov 26	08:53	Dec 4	12:25	Dec 11	19:30	Dec 18	11:07
	Dec 26	02:13						

2240			Jan 3	07:50	Jan 10	06:33	Jan 16	22:46
00h09m	Jan 24	21:27	Feb 2	00:08	Feb 8	17:16	Feb 15	13:07
	Feb 23	16:58 A	Mar 2	12:35	Mar 9	03:45 p	Mar 16	05:48
	Mar 24	10:52	Mar 31	21:35	Apr 7	14:05	Apr 15	00:05
	Apr 23	01:45	Apr 30	04:07	May 7	00:33	May 14	18:48
	May 22	13:25	May 29	09:26	Jun 5	11:47	Jun 13	12:40
	Jun 20	22:34	Jun 27	14:45	Jul 5	00:29	Jul 13	04:37
	Jul 20	06:18	Jul 26	21:21	Aug 3	14:58	Aug 11	18:08
	Aug 18	13:39 T	Aug 25	06:24	Sep 2	06:55 p	Sep 10	05:22
	Sep 16	21:26	Sep 23	18:57	Oct 1	23:26	Oct 9	14:49
	Oct 16	06:22	Oct 23	11:31	Oct 31	15:31	Nov 7	23:07
	Nov 14	17:07	Nov 22	07:35	Nov 30	06:33	Dec 7	06:58
	Dec 14	06:19	Dec 22	05:25	Dec 29	20:19		

Year            New Moon            First Quarter            Full Moon            Last Quarter  
Delta T

2241							Jan 5	15:07
00h09m	Jan 12	22:15	Jan 21	02:40	Jan 28	08:48 n	Feb 4	00:22
	Feb 11	16:22 A	Feb 19	21:16	Feb 26	19:52 n	Mar 5	11:28
	Mar 13	11:11	Mar 21	12:10	Mar 28	05:31	Apr 4	00:48
	Apr 12	04:56	Apr 19	23:14	Apr 26	14:08	May 3	16:16
	May 11	20:30	May 19	06:57	May 25	22:31	Jun 2	09:10
	Jun 10	09:35	Jun 17	12:19	Jun 24	07:45	Jul 2	02:35
	Jul 9	20:31	Jul 16	16:40	Jul 23	18:46 n	Jul 31	19:40
	Aug 8	05:53 T	Aug 14	21:35	Aug 22	08:04	Aug 30	11:47
	Sep 6	14:18	Sep 13	04:38	Sep 20	23:34	Sep 29	02:33
	Oct 5	22:32	Oct 12	15:11	Oct 20	16:40	Oct 28	15:35
	Nov 4	07:23	Nov 11	05:56	Nov 19	10:31	Nov 27	02:38
	Dec 3	17:39	Dec 11	00:34	Dec 19	04:03	Dec 26	11:48

2242	Jan 2	05:55	Jan 9	21:44	Jan 17	20:14 p	Jan 24	19:45
00h09m	Jan 31	20:15 A	Feb 8	19:30	Feb 16	10:11	Feb 23	03:31
	Mar 2	12:09	Mar 10	15:49	Mar 17	21:32	Mar 24	12:08
	Apr 1	04:50	Apr 9	09:02	Apr 16	06:39	Apr 22	22:21
	Apr 30	21:29	May 8	22:20	May 15	14:23	May 22	10:27
	May 30	13:24	Jun 7	07:44	Jun 13	21:45	Jun 21	00:27
	Jun 29	04:02	Jul 6	14:09	Jul 13	05:46 t	Jul 20	16:15
	Jul 28	16:59 P	Aug 4	18:56	Aug 11	15:15	Aug 19	09:33
	Aug 27	04:12	Sep 2	23:40	Sep 10	02:52	Sep 18	03:43
	Sep 25	14:07	Oct 2	05:52	Oct 9	17:05	Oct 17	21:40
	Oct 24	23:29	Oct 31	14:48	Nov 8	10:01	Nov 16	14:08
	Nov 23	09:11	Nov 30	03:13	Dec 8	04:59	Dec 16	04:08
	Dec 22	19:45 P	Dec 29	19:19				

2243					Jan 7	00:26 t	Jan 14	15:23
00h09m	Jan 21	07:18 P	Jan 28	14:31	Feb 5	18:25	Feb 13	00:20
	Feb 19	19:41	Feb 27	11:30	Mar 7	09:33	Mar 14	07:49
	Mar 21	08:50	Mar 29	08:17	Apr 5	21:33	Apr 12	14:47
	Apr 19	22:53	Apr 28	02:54	May 5	07:02	May 11	22:10
	May 19	13:54	May 27	18:05	Jun 3	14:55	Jun 10	06:50
	Jun 18	05:31 A	Jun 26	05:42	Jul 2	22:03 t	Jul 9	17:38
	Jul 17	20:58	Jul 25	14:23	Aug 1	05:16	Aug 8	07:14
	Aug 16	11:30	Aug 23	21:07	Aug 30	13:25	Sep 6	23:49
	Sep 15	00:44	Sep 22	03:03	Sep 28	23:31	Oct 6	18:48
	Oct 14	12:51	Oct 21	09:18	Oct 28	12:28	Nov 5	14:48
	Nov 13	00:21	Nov 19	16:58	Nov 27	04:45	Dec 5	10:04
	Dec 12	11:36 T	Dec 19	03:06	Dec 26	23:43 p		

2244							Jan 4	03:11
00h09m	Jan 10	22:38	Jan 17	16:24	Jan 25	19:35	Feb 2	17:16
	Feb 9	09:21	Feb 16	08:56	Feb 24	14:20	Mar 3	04:08
	Mar 9	19:52	Mar 17	03:50	Mar 25	06:34	Apr 1	12:08
	Apr 8	06:40	Apr 15	23:27	Apr 23	19:54	Apr 30	18:08
	May 7	18:22	May 15	18:08	May 23	06:35 n	May 29	23:25
	Jun 6	07:24 A	Jun 14	10:47	Jun 21	15:12 n	Jun 28	05:25
	Jul 5	21:42	Jul 14	00:59	Jul 20	22:27	Jul 27	13:32
	Aug 4	12:51	Aug 12	12:46	Aug 19	05:19	Aug 26	00:50
	Sep 3	04:20	Sep 10	22:24	Sep 17	12:52	Sep 24	15:49
	Oct 2	19:44	Oct 10	06:22	Oct 16	22:16	Oct 24	10:08
	Nov 1	10:41	Nov 8	13:27	Nov 15	10:23 n	Nov 23	06:45
	Dec 1	00:48 A	Dec 7	20:42	Dec 15	01:31 n	Dec 23	03:58
	Dec 30	13:40						

2245			Jan 6	05:20	Jan 13	19:04	Jan 21	23:54
00h09m	Jan 29	01:06	Feb 4	16:15	Feb 12	13:50	Feb 20	16:52
	Feb 27	11:16	Mar 6	05:44	Mar 14	08:26	Mar 22	05:50
	Mar 28	20:39	Apr 4	21:24	Apr 13	01:37	Apr 20	14:51
	Apr 27	05:55	May 4	14:26	May 12	16:28 p	May 19	20:55
	May 26	15:41 T	Jun 3	08:01	Jun 11	04:35	Jun 18	01:30
	Jun 25	02:28	Jul 3	01:25	Jul 10	14:12	Jul 17	06:13
	Jul 24	14:42	Aug 1	17:55	Aug 8	22:09	Aug 15	12:32
	Aug 23	04:44	Aug 31	08:48	Sep 7	05:34	Sep 13	21:38
	Sep 21	20:38	Sep 29	21:37	Oct 6	13:35	Oct 13	10:18
	Oct 21	13:56	Oct 29	08:18	Nov 4	23:07 p	Nov 12	02:49
	Nov 20	07:29 A	Nov 27	17:19	Dec 4	10:35	Dec 11	22:46
	Dec 19	23:55	Dec 27	01:27				

Year Delta T	New Moon	First Quarter	Full Moon	Last Quarter
2246 00h09m			Jan 3 00:02	Jan 10 20:43
	Jan 18 14:19	Jan 25 09:37	Feb 1 15:20	Feb 9 18:23
	Feb 17 02:33	Feb 23 18:34	Mar 3 08:10	Mar 11 13:24
	Mar 18 12:57	Mar 25 04:50	Apr 2 01:51	Apr 10 04:20
	Apr 16 22:02 P	Apr 23 16:44	May 1 19:11 t	May 9 15:08
	May 16 06:18 P	May 23 06:29	May 31 10:54	Jun 7 22:37
	Jun 14 14:21	Jun 21 22:07	Jun 30 00:16	Jul 7 04:03
	Jul 13 22:59	Jul 21 15:14	Jul 29 11:22	Aug 5 08:44
	Aug 12 09:13	Aug 20 08:59	Aug 27 21:00	Sep 3 14:01
	Sep 10 22:01	Sep 19 02:17	Sep 26 06:04	Oct 2 21:13
	Oct 10 13:47 P	Oct 18 18:16	Oct 25 15:20 t	Nov 1 07:32
	Nov 9 07:56 P	Nov 17 08:22	Nov 24 01:15	Nov 30 21:50
	Dec 9 02:56	Dec 16 20:24	Dec 23 12:00	Dec 30 16:10
2247 00h09m	Jan 7 21:04	Jan 15 06:24	Jan 21 23:48	Jan 29 13:17
	Feb 6 13:13	Feb 13 14:45	Feb 20 12:59	Feb 28 10:56
	Mar 8 02:55	Mar 14 22:09	Mar 22 03:42	Mar 30 06:52
	Apr 6 14:12 T	Apr 13 05:37	Apr 20 19:34 p	Apr 28 23:38
	May 5 23:19	May 12 14:11	May 20 11:45	May 28 12:50
	Jun 4 06:49	Jun 11 00:46	Jun 19 03:19	Jun 26 22:45
	Jul 3 13:39	Jul 10 13:54	Jul 18 17:44	Jul 26 06:01
	Aug 1 20:57	Aug 9 05:31	Aug 17 06:56	Aug 24 11:37
	Aug 31 05:58	Sep 7 23:09	Sep 15 19:05	Sep 22 16:47
	Sep 29 17:43 A	Oct 7 17:55	Oct 15 06:25 p	Oct 21 23:00
	Oct 29 08:36	Nov 6 12:47	Nov 13 17:08	Nov 20 07:43
	Nov 28 02:11	Dec 6 06:30	Dec 13 03:32	Dec 19 19:56
	Dec 27 21:19			
2248 00h09m		Jan 4 21:50	Jan 11 13:57	Jan 18 11:49
	Jan 26 16:35	Feb 3 10:01	Feb 10 00:47	Feb 17 06:31
	Feb 25 10:29	Mar 3 19:05	Mar 10 12:22 n	Mar 18 02:31
	Mar 26 01:50 A	Apr 2 01:53	Apr 9 00:49 n	Apr 16 22:13
	Apr 24 14:04	May 1 07:45	May 8 14:04	May 16 16:18
	May 23 23:25	May 30 14:02	Jun 7 04:04	Jun 15 07:50
	Jun 22 06:48	Jun 28 21:55	Jul 6 18:45	Jul 14 20:23
	Jul 21 13:26	Jul 28 08:13	Aug 5 09:58	Aug 13 06:04
	Aug 19 20:31	Aug 26 21:26	Sep 4 01:15 n	Sep 11 13:35
	Sep 18 05:04 T	Sep 25 13:49	Oct 3 16:00 n	Oct 10 20:02
	Oct 17 15:50	Oct 25 09:00	Nov 2 05:38	Nov 9 02:42
	Nov 16 05:13	Nov 24 05:52	Dec 1 18:02	Dec 8 10:44
	Dec 15 21:18	Dec 24 02:25	Dec 31 05:29	
2249 00h09m				Jan 6 21:00
	Jan 14 15:42	Jan 22 20:35	Jan 29 16:21	Feb 5 09:50
	Feb 13 11:14	Feb 21 11:02	Feb 28 02:50 p	Mar 7 01:08
	Mar 15 06:03 A	Mar 22 21:39	Mar 29 13:01	Apr 5 18:24
	Apr 13 22:27	Apr 21 05:11	Apr 27 23:06	May 5 12:47
	May 13 11:36	May 20 10:51	May 27 09:36	Jun 4 07:04
	Jun 11 21:52	Jun 18 15:53	Jun 25 21:17	Jul 4 00:06
	Jul 11 06:13	Jul 17 21:34	Jul 25 10:46	Aug 2 15:01
	Aug 9 13:43	Aug 16 05:09	Aug 24 02:06 p	Sep 1 03:38
	Sep 7 21:19 T	Sep 14 15:48	Sep 22 18:39	Sep 30 14:13
	Oct 7 05:44	Oct 14 06:22	Oct 22 11:19	Oct 29 23:19
	Nov 5 15:37	Nov 13 00:55	Nov 21 03:12	Nov 28 07:31
	Dec 5 03:35	Dec 12 22:16	Dec 20 17:50	Dec 27 15:30

2250	Jan 3	18:08	Jan 11	20:11	Jan 19	07:05	Jan 26	00:02
00h09m	Feb 2	11:10 P	Feb 10	16:21	Feb 17	18:51 t	Feb 24	09:56
	Mar 4	05:39	Mar 12	09:10	Mar 19	05:04	Mar 25	21:49
	Apr 2	23:56	Apr 10	22:06	Apr 17	13:56	Apr 24	11:54
	May 2	16:32	May 10	07:22	May 16	22:06	May 24	03:53
	Jun 1	06:47	Jun 8	13:44	Jun 15	06:35	Jun 22	20:58
	Jun 30	18:46	Jul 7	18:24	Jul 14	16:28	Jul 22	14:18
	Jul 30	04:57 P	Aug 5	22:50	Aug 13	04:32 t	Aug 21	07:08
	Aug 28	13:56 P	Sep 4	04:37	Sep 11	19:01	Sep 19	22:55
	Sep 26	22:21	Oct 3	13:18	Oct 11	11:34	Oct 19	13:13
	Oct 26	06:59	Nov 2	01:56	Nov 10	05:22	Nov 18	01:36
	Nov 24	16:36	Dec 1	18:45	Dec 9	23:25	Dec 17	11:53
	Dec 24	03:52	Dec 31	14:52				

Year            New Moon            First Quarter            Full Moon            Last Quarter  
Delta T

2251					Jan 8	16:34	Jan 15	20:25
00h09m	Jan 22	17:06 A	Jan 30	12:33	Feb 7	07:46 p	Feb 14	04:05
	Feb 21	08:07	Mar 1	09:44	Mar 8	20:22	Mar 15	11:58
	Mar 23	00:15	Mar 31	04:35	Apr 7	06:24	Apr 13	21:01
	Apr 21	16:45	Apr 29	19:51	May 6	14:33	May 13	07:49
	May 21	08:55	May 29	07:09	Jun 4	21:50	Jun 11	20:34
	Jun 20	00:11	Jun 27	14:59	Jul 4	05:17	Jul 11	11:19
	Jul 19	14:05 A	Jul 26	20:30	Aug 2	13:53 p	Aug 10	03:53
	Aug 18	02:20	Aug 25	01:10	Sep 1	00:21	Sep 8	21:51
	Sep 16	13:03	Sep 23	06:33	Sep 30	13:17	Oct 8	16:20
	Oct 15	22:51	Oct 22	14:04	Oct 30	05:00	Nov 7	10:02
	Nov 14	08:30	Nov 21	00:43	Nov 28	23:13	Dec 7	01:39
	Dec 13	18:44	Dec 20	14:57	Dec 28	18:47 n		

2252							Jan 5	14:29
00h09m	Jan 12	05:49 T	Jan 19	08:37	Jan 27	13:48	Feb 4	00:34
	Feb 10	17:41	Feb 18	04:44	Feb 26	06:28	Mar 4	08:37
	Mar 11	06:13	Mar 19	01:41	Mar 26	19:56	Apr 2	15:33
	Apr 9	19:31	Apr 17	21:26	Apr 25	06:28	May 1	22:22
	May 9	09:46	May 17	14:21	May 24	14:56	May 31	06:01
	Jun 8	00:56	Jun 16	03:47	Jun 22	22:16 p	Jun 29	15:25
	Jul 7	16:30 A	Jul 15	13:57	Jul 22	05:19	Jul 29	03:23
	Aug 6	07:40	Aug 13	21:43	Aug 20	12:55	Aug 27	18:26
	Sep 4	21:47	Sep 12	04:08	Sep 18	21:58	Sep 26	12:27
	Oct 4	10:41	Oct 11	10:16	Oct 18	09:28	Oct 26	08:22
	Nov 2	22:43	Nov 9	17:13	Nov 17	00:10	Nov 25	04:29
	Dec 2	10:18	Dec 9	02:03	Dec 16	18:00 p	Dec 24	23:04
	Dec 31	21:34 T						

2253			Jan 7	13:37	Jan 15	13:40	Jan 23	14:53
00h09m	Jan 30	08:26	Feb 6	04:24	Feb 14	09:10	Feb 22	03:24
	Feb 28	18:53	Mar 7	22:00	Mar 16	02:41	Mar 23	12:42
	Mar 30	05:13	Apr 6	17:11	Apr 14	17:23	Apr 21	19:27
	Apr 28	16:07	May 6	12:18	May 14	05:16	May 21	00:45
	May 28	04:12	Jun 5	05:58	Jun 12	14:48 t	Jun 19	06:02
	Jun 26	17:42 P	Jul 4	21:28	Jul 11	22:39	Jul 18	12:47
	Jul 26	08:25	Aug 3	10:37	Aug 10	05:38	Aug 16	22:16
	Aug 24	23:53	Sep 1	21:34	Sep 8	12:48	Sep 15	11:22
	Sep 23	15:35	Oct 1	06:35	Oct 7	21:16	Oct 15	04:10
	Oct 23	07:06	Oct 30	14:15	Nov 6	08:03	Nov 13	23:57
	Nov 21	21:58 P	Nov 28	21:27	Dec 5	21:45 t	Dec 13	21:15

Dec 21 11:43 P Dec 28 05:17

2254  
00h09m

	Jan 4 14:10		Jan 12 18:12
Jan 19 23:57	Jan 26 14:53	Feb 3 08:23	Feb 11 12:54
Feb 18 10:39	Feb 25 02:52	Mar 5 03:04	Mar 13 03:56
Mar 19 20:13	Mar 26 17:12	Apr 3 20:56	Apr 11 14:49
Apr 18 05:15	Apr 25 09:18	May 3 12:56	May 10 22:09
May 17 14:27 T	May 25 02:26	Jun 2 02:23 p	Jun 9 03:13
Jun 16 00:27	Jun 23 19:53	Jul 1 13:13	Jul 8 07:36
Jul 15 11:46	Jul 23 12:58	Jul 30 21:59	Aug 6 12:54
Aug 14 00:49	Aug 22 04:57	Aug 29 05:39	Sep 4 20:27
Sep 12 15:52	Sep 20 19:09	Sep 27 13:25	Oct 4 07:16
Oct 12 08:46	Oct 20 07:14	Oct 26 22:17	Nov 2 21:53
Nov 11 02:36 A	Nov 18 17:18	Nov 25 08:52 p	Dec 2 16:17
Dec 10 20:00	Dec 18 01:57	Dec 24 21:21	

2255  
00h09m

			Jan 1 13:30
Jan 9 11:39	Jan 16 10:02	Jan 23 11:40	Jan 31 11:38
Feb 8 00:59	Feb 14 18:25	Feb 22 03:35	Mar 2 08:11
Mar 9 12:10	Mar 16 03:44	Mar 23 20:43	Apr 1 01:12
Apr 7 21:43	Apr 14 14:27	Apr 22 14:09 n	Apr 30 13:59
May 7 06:09 T	May 14 02:54	May 22 06:40 n	May 29 23:00
Jun 5 14:03	Jun 12 17:20	Jun 20 21:14	Jun 28 05:20
Jul 4 22:09	Jul 12 09:38	Jul 20 09:30	Jul 27 10:17
Aug 3 07:22	Aug 11 03:12	Aug 18 19:56	Aug 25 15:10
Sep 1 18:47	Sep 9 21:04	Sep 17 05:23	Sep 23 21:18
Oct 1 09:08	Oct 9 14:07	Oct 16 14:43 n	Oct 23 05:58
Oct 31 02:22 A	Nov 8 05:34	Nov 15 00:28 n	Nov 21 18:13
Nov 29 21:20	Dec 7 18:56	Dec 14 10:53	Dec 21 10:34
Dec 29 16:15			

Year	New Moon	First Quarter	Full Moon	Last Quarter
Delta T				

2256  
00h10m

	Jan 6 06:06	Jan 12 22:07	Jan 20 06:26
Jan 28 09:35	Feb 4 15:16	Feb 11 10:27	Feb 19 03:59
Feb 27 00:31	Mar 4 22:56	Mar 12 00:09	Mar 20 00:53
Mar 27 12:55	Apr 3 06:01	Apr 10 15:13 p	Apr 18 19:14
Apr 25 22:57 T	May 2 13:37	May 10 07:06	May 18 10:11
May 25 07:03	May 31 22:48	Jun 8 22:54	Jun 16 21:45
Jun 23 14:00	Jun 30 10:22	Jul 8 13:55	Jul 16 06:22
Jul 22 20:51	Jul 30 00:38	Aug 7 03:50	Aug 14 12:49
Aug 21 04:52	Aug 28 17:21	Sep 5 16:42	Sep 12 18:12
Sep 19 15:12	Sep 27 11:50	Oct 5 04:42 p	Oct 11 23:52
Oct 19 04:35 A	Oct 27 07:03	Nov 3 15:58	Nov 10 07:15
Nov 17 21:01	Nov 26 01:48	Dec 3 02:41	Dec 9 17:38
Dec 17 15:37	Dec 25 18:44		

2257  
00h10m

		Jan 1 13:08	Jan 8 07:39
Jan 16 11:03	Jan 24 08:42	Jan 30 23:41	Feb 7 00:54
Feb 15 05:47	Feb 22 19:17	Mar 1 10:42	Mar 8 20:12
Mar 16 22:28 P	Mar 24 02:59	Mar 30 22:27 t	Apr 7 15:59
Apr 15 12:12 P	Apr 22 08:59	Apr 29 11:00	May 7 10:51
May 14 22:50	May 21 14:41	May 29 00:23	Jun 6 03:42
Jun 13 07:01	Jun 19 21:26	Jun 27 14:34	Jul 5 17:52
Jul 12 13:52	Jul 19 06:15	Jul 27 05:31	Aug 4 05:08
Aug 10 20:37	Aug 17 17:51	Aug 25 20:58	Sep 2 13:53

Sep 9	04:24	P	Sep 16	08:39	Sep 24	12:19	t	Oct 1	20:59
Oct 8	14:05	P	Oct 16	02:37	Oct 24	02:52		Oct 31	03:35
Nov 7	02:13		Nov 14	23:02	Nov 22	16:09		Nov 29	10:56
Dec 6	17:01		Dec 14	20:14	Dec 22	04:12		Dec 28	20:01

2258	Jan 5	10:20	Jan 13	15:59	Jan 20	15:23	Jan 27	07:25		
00h10m	Feb 4	05:24	Feb 12	08:28	Feb 19	01:59	Feb 25	21:16		
	Mar 6	00:42	A	Mar 13	20:57	Mar 20	12:08	p		
	Mar 27	13:19	Apr 4	18:21	Apr 12	05:50	Apr 18	21:58		
	Apr 26	06:56	May 4	09:04	May 11	12:12	May 18	07:56		
	May 26	01:12	Jun 2	20:39	Jun 9	17:16	Jun 16	18:42		
	Jun 24	18:55	Jul 2	05:50	Jul 8	22:22	Jul 16	07:05		
	Jul 24	11:04	Jul 31	13:43	Aug 7	04:46	Aug 14	21:30		
	Aug 23	01:05	Aug 29	21:18	T	Sep 5	13:42	Sep 13	13:41	p
	Sep 21	12:57	Sep 28	05:22	Oct 5	02:14	Oct 13	06:40	Oct 20	23:02
	Oct 20	23:02	Oct 27	14:35	Nov 3	18:55	Nov 11	23:19	Nov 19	07:52
	Nov 19	07:52	Nov 26	01:32	Dec 3	15:10	Dec 11	14:51	Dec 18	16:02
	Dec 18	16:02	Dec 25	14:45						

2259			Jan 2	13:12	Jan 10	04:57	Jan 17	00:11				
00h10m	Jan 24	06:31	Feb 1	10:32	Feb 8	17:30	n	Feb 15	09:09			
	Feb 23	00:16	A	Mar 3	05:10	Mar 10	04:24	n	Mar 16	19:43		
	Mar 16	19:43	Mar 24	18:38	Apr 1	20:01	Apr 8	13:43	Apr 15	08:21		
	Apr 15	08:21	Apr 23	12:02	May 1	07:02	May 7	21:56	May 14	23:07		
	May 14	23:07	May 23	03:23	May 30	14:43	Jun 6	05:55	Jun 13	15:30		
	Jun 13	15:30	Jun 21	16:27	Jun 28	20:04	Jul 5	14:50	Jul 13	08:44		
	Jul 13	08:44	Jul 21	03:34	Jul 28	00:25	Aug 4	01:38	n	Aug 12	01:59	
	Aug 12	01:59	Aug 19	13:14	T	Aug 26	05:21	Sep 2	14:55	n	Sep 10	18:36
	Sep 10	18:36	Sep 17	22:03	Sep 24	12:25	Oct 2	06:37	Oct 10	10:02		
	Oct 10	10:02	Oct 17	06:42	Oct 23	23:01	Nov 1	00:06	Nov 8	23:46		
	Nov 8	23:46	Nov 15	15:53	Nov 22	13:48	Nov 30	18:22	Dec 8	11:23		
	Dec 8	11:23	Dec 15	02:20	Dec 22	08:26	Dec 30	12:17				

2260							Jan 6	20:52			
00h10m	Jan 13	14:34	Jan 21	05:32	Jan 29	04:40	p	Feb 5	04:49		
	Feb 5	04:49	Feb 12	04:35	A	Feb 20	03:07	Feb 27	18:37		
	Feb 27	18:37	Mar 12	20:00	Mar 20	23:14	Mar 28	05:47	Mar 5	12:19	
	Mar 5	12:19	Apr 11	12:08	Apr 19	16:20	Apr 26	14:38	Apr 3	20:25	
	Apr 3	20:25	May 11	04:18	May 19	05:37	May 25	22:04	May 3	05:59	
	May 3	05:59	Jun 9	19:58	Jun 17	15:08	Jun 24	05:11	Jun 1	17:26	
	Jun 1	17:26	Jul 9	10:37	Jul 16	21:44	Jul 23	13:02	t	Jul 1	06:57
	Jul 1	06:57	Aug 7	23:51	P	Aug 15	02:45	Aug 21	22:28	Jul 30	22:32
	Jul 30	22:32	Sep 6	11:32	Sep 13	07:43	Sep 20	10:09	Aug 29	15:56	
	Aug 29	15:56	Oct 5	21:57	Oct 12	14:06	Oct 20	00:33	Sep 28	10:31	
	Sep 28	10:31	Nov 4	07:49	Nov 10	23:09	Nov 18	17:42	Oct 28	05:06	
	Oct 28	05:06	Dec 3	17:52	Dec 10	11:34	Dec 18	12:55	Nov 26	22:13	
	Nov 26	22:13							Dec 26	12:44	

Year	New Moon	First Quarter	Full Moon	Last Quarter
Delta T				
2261	Jan 2 04:35 P	Jan 9 03:29	Jan 17 08:32 t	Jan 25 00:16
00h10m	Jan 31 16:01 P	Feb 7 22:22	Feb 16 02:34	Feb 23 09:13
	Mar 2 04:02	Mar 9 18:55	Mar 17 17:37	Mar 24 16:28
	Mar 31 16:39	Apr 8 15:19	Apr 16 05:26	Apr 22 23:01
	Apr 30 06:06	May 8 09:41	May 15 14:44	May 22 05:53
	May 29 20:35	Jun 7 00:54	Jun 13 22:27	Jun 20 14:03
	Jun 28 11:55 P	Jul 6 12:44	Jul 13 05:30 t	Jul 20 00:26

Jul 28	03:25	Aug 4	21:46	Aug 11	12:44	Aug 18	13:49
Aug 26	18:17	Sep 3	04:57	Sep 9	21:00	Sep 17	06:28
Sep 25	08:02	Oct 2	11:18	Oct 9	07:15	Oct 17	01:46
Oct 24	20:45	Oct 31	17:53	Nov 7	20:22	Nov 15	22:16
Nov 23	08:46	Nov 30	01:44	Dec 7	12:46	Dec 15	18:03
Dec 22	20:22 T	Dec 29	11:49				

2262  
00h10m

				Jan 6	07:45 p	Jan 14	11:33
Jan 21	07:29	Jan 28	00:50	Feb 5	03:33	Feb 13	01:49
Feb 19	18:02	Feb 26	16:52	Mar 6	22:08	Mar 14	12:40
Mar 21	04:09	Mar 28	11:09	Apr 5	14:11	Apr 12	20:30
Apr 19	14:25	Apr 27	06:13	May 5	03:22	May 12	02:14
May 19	01:34	May 27	00:34	Jun 3	13:57 n	Jun 10	07:11
Jun 17	14:08 A	Jun 25	17:12	Jul 2	22:34 n	Jul 9	12:52
Jul 17	04:11	Jul 25	07:40	Aug 1	05:56	Aug 7	20:43
Aug 15	19:21	Aug 23	19:57	Aug 30	12:58	Sep 6	07:53
Sep 14	11:09	Sep 22	06:12	Sep 28	20:46	Oct 5	22:54
Oct 14	03:05	Oct 21	14:45	Oct 28	06:24	Nov 4	17:26
Nov 12	18:38	Nov 19	22:16	Nov 26	18:41 n	Dec 4	14:19
Dec 12	09:15 A	Dec 19	05:44	Dec 26	09:49 n		

2263  
00h10m

						Jan 3	11:49
Jan 10	22:24	Jan 17	14:18	Jan 25	03:12	Feb 2	07:57
Feb 9	09:51	Feb 16	00:52	Feb 23	21:39	Mar 4	00:57
Mar 10	19:48	Mar 17	13:46	Mar 25	15:54	Apr 2	13:53
Apr 9	04:49	Apr 16	04:43	Apr 24	08:47	May 1	22:50
May 8	13:37	May 15	21:07	May 23	23:29 p	May 31	04:48
Jun 6	22:56 T	Jun 14	14:17	Jun 22	11:37	Jun 29	09:16
Jul 6	09:22	Jul 14	07:36	Jul 21	21:24	Jul 28	13:53
Aug 4	21:25	Aug 13	00:23	Aug 20	05:37	Aug 26	20:08
Sep 3	11:29	Sep 11	15:49	Sep 18	13:23	Sep 25	05:12
Oct 3	03:39	Oct 11	05:20	Oct 17	21:46	Oct 24	17:55
Nov 1	21:24	Nov 9	16:41	Nov 16	07:35 p	Nov 23	10:31
Dec 1	15:27 A	Dec 9	02:12	Dec 15	19:11	Dec 23	06:32
Dec 31	08:17						

2264  
00h10m

		Jan 7	10:34	Jan 14	08:33	Jan 22	04:29
Jan 29	22:53	Feb 5	18:39	Feb 12	23:32	Feb 21	02:05
Feb 28	11:04	Mar 6	03:15	Mar 13	15:53	Mar 21	20:59
Mar 28	21:15	Apr 4	12:55	Apr 12	09:03	Apr 20	11:52
Apr 27	06:00 P	May 4	00:08	May 12	02:00 t	May 19	22:39
May 26	13:56 P	Jun 2	13:14	Jun 10	17:33	Jun 18	06:13
Jun 24	21:41	Jul 2	04:25	Jul 10	07:01	Jul 17	11:45
Jul 24	06:08	Jul 31	21:24	Aug 8	18:26	Aug 15	16:34
Aug 22	16:18	Aug 30	15:23	Sep 7	04:28	Sep 13	22:00
Sep 21	05:09	Sep 29	09:15	Oct 6	14:00	Oct 13	05:18
Oct 20	21:08 P	Oct 29	01:55	Nov 4	23:43 t	Nov 11	15:41
Nov 19	15:35 P	Nov 27	16:41	Dec 4	09:56	Dec 11	05:58
Dec 19	10:55	Dec 27	05:11				

2265  
00h10m

				Jan 2	20:47	Jan 10	00:09
Jan 18	05:17	Jan 25	15:25	Feb 1	08:26	Feb 8	21:00
Feb 16	21:30	Feb 23	23:41	Mar 2	21:13	Mar 10	18:20
Mar 18	11:07	Mar 25	06:46	Apr 1	11:21	Apr 9	13:59
Apr 16	22:11 T	Apr 23	13:43	May 1	02:37 p	May 9	06:37
May 16	07:03	May 22	21:42	May 30	18:21	Jun 7	19:53
Jun 14	14:22	Jun 21	07:44	Jun 29	09:45	Jul 7	06:00
Jul 13	21:05	Jul 20	20:27	Jul 29	00:18	Aug 5	13:36
Aug 12	04:21	Aug 19	11:56	Aug 27	13:52	Sep 3	19:33

Sep 10	13:25	Sep 18	05:44	Sep 26	02:33	Oct 3	01:04
Oct 10	01:18 A	Oct 18	00:57	Oct 25	14:27 p	Nov 1	07:31
Nov 8	16:21	Nov 16	20:24	Nov 24	01:39	Nov 30	16:20
Dec 8	10:06	Dec 16	14:40	Dec 23	12:20	Dec 30	04:27

Year Delta T	New Moon		First Quarter		Full Moon		Last Quarter	
2266 00h10m	Jan 7	05:20	Jan 15	06:25	Jan 21	22:47	Jan 28	20:02
	Feb 6	00:35	Feb 13	18:45	Feb 20	09:24	Feb 27	14:15
	Mar 7	18:23	Mar 15	03:45	Mar 21	20:33 n	Mar 29	09:42
	Apr 6	09:35 A	Apr 13	10:18	Apr 20	08:25 n	Apr 28	04:58
	May 5	21:40	May 12	15:48	May 19	21:06	May 27	22:50
	Jun 4	06:54	Jun 10	21:40	Jun 18	10:40	Jun 26	14:27
	Jul 3	14:15	Jul 10	05:09	Jul 18	01:10	Jul 26	03:19
	Aug 1	20:56	Aug 8	15:09	Aug 16	16:29	Aug 24	13:30
	Aug 31	04:08	Sep 7	04:16	Sep 15	08:11 n	Sep 22	21:34
	Sep 29	12:54 T	Oct 6	20:45	Oct 14	23:30 n	Oct 22	04:31
	Oct 28	23:52	Nov 5	16:14	Nov 13	13:44	Nov 20	11:31
	Nov 27	13:23	Dec 5	13:30	Dec 13	02:36	Dec 19	19:41
	Dec 27	05:29						
2267 00h10m			Jan 4	10:25	Jan 11	14:17	Jan 18	05:49
	Jan 25	23:45	Feb 3	04:49	Feb 10	01:07	Feb 16	18:15
	Feb 24	19:01	Mar 4	19:20	Mar 11	11:21 p	Mar 18	08:56
	Mar 26	13:34 A	Apr 3	05:54	Apr 9	21:06	Apr 17	01:31
	Apr 25	05:45	May 2	13:18	May 9	06:41	May 16	19:19
	May 24	18:48	May 31	18:46	Jun 7	16:43	Jun 15	13:19
	Jun 23	05:04	Jun 29	23:36	Jul 7	04:02	Jul 15	06:24
	Jul 22	13:32	Jul 29	05:06	Aug 5	17:20	Aug 13	21:42
	Aug 20	21:16	Aug 27	12:33	Sep 4	08:46 p	Sep 12	10:55
	Sep 19	05:09 T	Sep 25	23:09	Oct 4	01:41	Oct 11	22:11
	Oct 18	13:53	Oct 25	13:47	Nov 2	18:54	Nov 10	07:52
	Nov 17	00:01	Nov 24	08:29	Dec 2	11:19	Dec 9	16:29
	Dec 16	12:05	Dec 24	05:59				
2268 00h10m					Jan 1	02:21	Jan 8	00:37
	Jan 15	02:32	Jan 23	04:01	Jan 30	15:45	Feb 6	08:59
	Feb 13	19:14 P	Feb 22	00:11	Feb 29	03:26 t	Mar 6	18:26
	Mar 14	13:16	Mar 22	16:58	Mar 29	13:23	Apr 5	05:40
	Apr 13	07:07	Apr 21	05:50	Apr 27	21:52	May 4	19:03
	May 12	23:25	May 20	15:05	May 27	05:39	Jun 3	10:25
	Jun 11	13:35	Jun 18	21:28	Jun 25	13:48	Jul 3	03:10
	Jul 11	01:41	Jul 18	02:09	Jul 24	23:27	Aug 1	20:30
	Aug 9	12:09 P	Aug 16	06:37	Aug 23	11:25 t	Aug 31	13:42
	Sep 7	21:31 P	Sep 14	12:27	Sep 22	02:01	Sep 30	06:06
	Oct 7	06:22	Oct 13	21:11	Oct 21	18:51	Oct 29	21:06
	Nov 5	15:23	Nov 12	09:52	Nov 20	13:04	Nov 28	10:07
	Dec 5	01:15	Dec 12	02:42	Dec 20	07:30	Dec 27	20:50
2269 00h10m	Jan 3	12:35	Jan 10	22:44	Jan 19	00:55	Jan 26	05:31
	Feb 2	01:37 A	Feb 9	20:14	Feb 17	16:11 p	Feb 24	13:00
	Mar 3	16:11	Mar 11	17:11	Mar 19	04:40	Mar 25	20:28
	Apr 2	07:45	Apr 10	11:51	Apr 17	14:27	Apr 24	04:56
	May 1	23:43	May 10	03:03	May 16	22:19	May 23	15:05
	May 31	15:31	Jun 8	14:26	Jun 15	05:21	Jun 22	03:17
	Jun 30	06:42	Jul 7	22:27	Jul 14	12:38	Jul 21	17:41



Jul 29 20:47 A	Aug 6 04:13	Aug 12 21:09 p	Aug 20 10:12
Aug 28 09:26	Sep 4 09:09	Sep 11 07:40	Sep 19 04:27
Sep 26 20:41	Oct 3 14:46	Oct 10 20:44	Oct 18 23:29
Oct 26 07:00	Nov 1 22:26	Nov 9 12:39	Nov 17 17:51
Nov 24 17:05	Dec 1 09:08	Dec 9 07:05	Dec 17 10:03
Dec 24 03:33	Dec 30 23:17		

2270  
00h10m

		Jan 8 02:49 n	Jan 15 23:14
Jan 22 14:37 T	Jan 29 16:38	Feb 6 21:54	Feb 14 09:26
Feb 21 02:13	Feb 28 12:20	Mar 8 14:31	Mar 15 17:21
Mar 22 14:16	Mar 30 08:49	Apr 7 03:50	Apr 13 23:57
Apr 21 02:58	Apr 29 04:14	May 6 14:11	May 13 06:19
May 20 16:39	May 28 21:03	Jun 4 22:30	Jun 11 13:28
Jun 19 07:25	Jun 27 10:38	Jul 4 05:44 p	Jul 10 22:25
Jul 18 22:53 A	Jul 26 21:08	Aug 2 12:47	Aug 9 10:05
Aug 17 14:17	Aug 25 05:21	Aug 31 20:29	Sep 8 01:05
Sep 16 04:51	Sep 23 12:14	Sep 30 05:42	Oct 7 19:18
Oct 15 18:21	Oct 22 18:46	Oct 29 17:22	Nov 6 15:38
Nov 14 06:57	Nov 21 01:59	Nov 28 08:12	Dec 6 12:15
Dec 13 18:57	Dec 20 10:52	Dec 28 02:04 p	

Year	New Moon	First Quarter	Full Moon	Last Quarter
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2271  
00h10m

				Jan 5 07:15
Jan 12 06:25 T	Jan 18 22:15	Jan 26 21:40	Feb 3 23:19	
Feb 10 17:12	Feb 17 12:35	Feb 25 17:00	Mar 5 11:53	
Mar 12 03:20	Mar 19 05:35	Mar 27 10:19	Apr 3 21:05	
Apr 10 13:12	Apr 18 00:08	Apr 26 00:50	May 3 03:37	
May 9 23:33	May 17 18:48	May 25 12:36	Jun 1 08:39	
Jun 8 11:07	Jun 16 12:18	Jun 23 22:07 t	Jun 30 13:39	
Jul 8 00:16 P	Jul 16 03:58	Jul 23 06:03	Jul 29 20:07	
Aug 6 14:54	Aug 14 17:33	Aug 21 13:14	Aug 28 05:26	
Sep 5 06:34	Sep 13 05:05	Sep 19 20:38	Sep 26 18:29	
Oct 4 22:43	Oct 12 14:44	Oct 19 05:22	Oct 26 11:25	
Nov 3 14:48	Nov 10 22:56	Nov 17 16:21	Nov 25 07:26	
Dec 3 06:14 P	Dec 10 06:26	Dec 17 06:07 t	Dec 25 05:00	

2272  
00h10m

Jan 1 20:21 P	Jan 8 14:20	Jan 15 22:25	Jan 24 02:09
Jan 31 08:42	Feb 6 23:41	Feb 14 16:21	Feb 22 20:55
Feb 29 19:17	Mar 7 11:10	Mar 15 10:39	Mar 23 11:56
Mar 30 04:31	Apr 6 00:49	Apr 14 04:10	Apr 21 22:46
Apr 28 13:07	May 5 16:14	May 13 19:56	May 21 06:01
May 27 21:53 T	Jun 4 08:50	Jun 12 09:20 p	Jun 19 11:01
Jun 26 07:31	Jul 4 02:03	Jul 11 20:18	Jul 18 15:20
Jul 25 18:35	Aug 2 19:15	Aug 10 05:19	Aug 16 20:34
Aug 24 07:35	Sep 1 11:41	Sep 8 13:20	Sep 15 04:06
Sep 22 22:48	Oct 1 02:34	Oct 7 21:28	Oct 14 14:56
Oct 22 16:03	Oct 30 15:21	Nov 6 06:40	Nov 13 05:38
Nov 21 10:23 A	Nov 29 02:00	Dec 5 17:28 p	Dec 13 00:05
Dec 21 04:13	Dec 28 11:00		

2273  
00h10m

		Jan 4 05:58	Jan 11 21:18
Jan 19 20:08	Jan 26 19:09	Feb 2 20:02	Feb 10 19:19
Feb 18 09:31	Feb 25 03:16	Mar 4 11:31	Mar 12 15:45
Mar 19 20:32	Mar 26 12:05	Apr 3 04:06	Apr 11 08:40
Apr 18 05:47	Apr 24 22:09	May 2 21:04 n	May 10 21:25

May 17	13:54	T	May 24	09:56	Jun 1	13:19	n	Jun 9	06:30
Jun 15	21:30		Jun 22	23:49	Jul 1	03:53		Jul 8	12:58
Jul 15	05:23		Jul 22	15:50	Jul 30	16:23		Aug 6	18:04
Aug 13	14:31		Aug 21	09:30	Aug 29	03:13		Sep 4	23:07
Sep 12	01:56		Sep 20	03:47	Sep 27	13:09		Oct 4	05:25
Oct 11	16:26		Oct 19	21:29	Oct 26	22:57	n	Nov 2	14:10
Nov 10	09:56	A	Nov 18	13:36	Nov 25	09:04	n	Dec 2	02:27
Dec 10	05:13		Dec 18	03:32	Dec 24	19:41		Dec 31	18:42

2274	Jan 9	00:23	Jan 16	15:02	Jan 23	06:52		Jan 30	14:18
00h10m	Feb 7	17:49	Feb 15	00:14	Feb 21	18:52		Mar 1	11:30
	Mar 9	08:43	Mar 16	07:41	Mar 23	08:02		Mar 31	08:02
	Apr 7	20:56	Apr 14	14:20	Apr 21	22:30	p	Apr 30	02:10
	May 7	06:45	May 13	21:23	May 21	13:51		May 29	17:07
	Jun 5	14:39	Jun 12	06:00	Jun 20	05:21		Jun 28	04:50
	Jul 4	21:28	Jul 11	17:06	Jul 19	20:23		Jul 27	13:46
	Aug 3	04:17	Aug 10	07:07	Aug 18	10:35		Aug 25	20:37
	Sep 1	12:20	Sep 8	23:52	Sep 16	23:57		Sep 24	02:23
	Sep 30	22:47	Oct 8	18:41	Oct 16	12:31	p	Oct 23	08:20
	Oct 30	12:20	Nov 7	14:26	Nov 15	00:19		Nov 21	15:54
	Nov 29	04:55	Dec 7	09:45	Dec 14	11:25		Dec 21	02:17
	Dec 28	23:37							

2275			Jan 6	03:08	Jan 12	21:59		Jan 19	16:03
00h10m	Jan 27	19:03	Feb 4	17:20	Feb 11	08:25		Feb 18	08:53
	Feb 26	13:42	Mar 6	03:56	Mar 12	19:04		Mar 20	03:36
	Mar 28	06:13	Apr 4	11:28	Apr 11	06:17	t	Apr 18	22:52
	Apr 26	19:47	May 3	17:10	May 10	18:16		May 18	17:23
	May 26	06:19	Jun 1	22:30	Jun 9	07:09		Jun 17	10:11
	Jun 24	14:27	Jul 1	04:51	Jul 8	21:02		Jul 17	00:35
	Jul 23	21:20	Jul 30	13:21	Aug 7	11:58		Aug 15	12:19
	Aug 22	04:12	Aug 29	00:47	Sep 6	03:42		Sep 13	21:38
	Sep 20	12:11	Sep 27	15:35	Oct 5	19:34	t	Oct 13	05:16
	Oct 19	22:06	Oct 27	09:46	Nov 4	10:43		Nov 11	12:19
	Nov 18	10:24	Nov 26	06:31	Dec 4	00:32		Dec 10	19:54
	Dec 18	01:15	Dec 26	04:05					

Year	New Moon	First Quarter	Full Moon	Last Quarter
Delta T				

2276			Jan 2	12:56	Jan 9	04:57
00h10m	Jan 16	18:28	Jan 25	00:06	Feb 1	00:11
	Feb 15	13:17	Feb 23	16:42	Mar 1	10:36
	Mar 16	08:17	Mar 24	05:10	Mar 30	20:23
	Apr 15	01:40	Apr 22	13:57	Apr 29	05:45
	May 14	16:13	May 21	20:10	May 28	15:14
	Jun 13	03:47	Jun 20	01:04	Jun 27	01:36
	Jul 12	13:05	Jul 19	06:00	Jul 26	13:44
	Aug 10	21:10	Aug 17	12:16	Aug 25	04:08
	Sep 9	05:01	Sep 15	21:08	Sep 23	20:34
	Oct 8	13:26	Oct 15	09:41	Oct 23	14:01
	Nov 6	22:56	Nov 14	02:28	Nov 22	07:13
	Dec 6	10:03	Dec 13	22:52	Dec 21	23:13

2277	Jan 4	23:15	Jan 12	20:59	Jan 20	13:34	Jan 27	09:15
00h10m	Feb 3	14:45	Feb 11	18:20	Feb 19	02:07	Feb 25	17:53
	Mar 5	08:04	Mar 13	12:54	Mar 20	12:48	Mar 27	03:52

Apr 4	01:57	Apr 12	03:42	Apr 18	21:48	Apr 25	15:48
May 3	18:58	May 11	14:41	May 18	05:38	May 25	05:53
Jun 2	10:09	Jun 9	22:23	Jun 16	13:17	Jun 23	21:49
Jul 1	23:16	Jul 9	03:47	Jul 15	21:55	Jul 23	14:53
Jul 31	10:37	Aug 7	08:13	Aug 14	08:36 n	Aug 22	08:21
Aug 29	20:39 T	Sep 5	13:13	Sep 12	21:55 n	Sep 21	01:30
Sep 28	05:55	Oct 4	20:22	Oct 12	13:50	Oct 20	17:38
Oct 27	14:58	Nov 3	07:01	Nov 11	07:39	Nov 19	08:03
Nov 26	00:29	Dec 2	21:50	Dec 11	02:18	Dec 18	20:10
Dec 25	11:05						

2278		Jan 1	16:23	Jan 9	20:32	Jan 17	05:54
00h11m							
Jan 23	23:12	Jan 31	13:18	Feb 8	13:03 p	Feb 15	13:50
Feb 22	12:52 A	Mar 2	10:38	Mar 10	02:55	Mar 16	21:00
Mar 24	03:44	Apr 1	06:30	Apr 8	13:54	Apr 15	04:36
Apr 22	19:17	Apr 30	23:28	May 7	22:28	May 14	13:32
May 22	11:00	May 30	12:46	Jun 6	05:40	Jun 13	00:23
Jun 21	02:27	Jun 28	22:28	Jul 5	12:36	Jul 12	13:28
Jul 20	17:11	Jul 28	05:20	Aug 3	20:21 t	Aug 11	04:52
Aug 19	06:45 A	Aug 26	10:39	Sep 2	05:48	Sep 9	22:25
Sep 17	18:56	Sep 24	15:53	Oct 1	17:36	Oct 9	17:26
Oct 17	05:54	Oct 23	22:29	Oct 31	08:10	Nov 8	12:38
Nov 15	16:15	Nov 22	07:38	Nov 30	01:32	Dec 8	06:23
Dec 15	02:38	Dec 21	20:01	Dec 29	20:54		

2279						Jan 6	21:21
00h11m							
Jan 13	13:26 P	Jan 20	11:42	Jan 28	16:36 t	Feb 5	09:05
Feb 12	00:41 P	Feb 19	06:10	Feb 27	10:36	Mar 6	17:59
Mar 13	12:18	Mar 21	02:13	Mar 29	01:31	Apr 5	00:59
Apr 12	00:21	Apr 19	22:10	Apr 27	13:11	May 4	07:09
May 11	13:12	May 19	16:20	May 26	22:18	Jun 2	13:33
Jun 10	03:13	Jun 18	07:36	Jun 25	05:55	Jul 1	21:16
Jul 9	18:18 P	Jul 17	19:43	Jul 24	12:58 t	Jul 31	07:18
Aug 8	09:53	Aug 16	05:12	Aug 22	20:17	Aug 29	20:32
Sep 7	01:08	Sep 14	12:52	Sep 21	04:43	Sep 28	13:15
Oct 6	15:28	Oct 13	19:41	Oct 20	15:08	Oct 28	08:53
Nov 5	04:46	Nov 12	02:36	Nov 19	04:25	Nov 27	05:50
Dec 4	17:17	Dec 11	10:36	Dec 18	20:52	Dec 27	02:04

2280	Jan 3	05:10 T	Jan 9	20:35	Jan 17	15:47 p	Jan 25	19:51
00h11m								
Feb 1	16:18	Feb 8	09:15	Feb 16	11:25	Feb 24	10:15	
Mar 2	02:37	Mar 9	00:43	Mar 17	05:47	Mar 24	21:03	
Mar 31	12:20	Apr 7	18:20	Apr 15	21:38	Apr 23	04:43	
Apr 29	22:05	May 7	12:51	May 15	10:40	May 22	10:14	
May 29	08:42	Jun 6	06:54	Jun 13	21:14 n	Jun 20	14:55	
Jun 27	20:51 A	Jul 5	23:33	Jul 13	05:54 n	Jul 19	20:21	
Jul 27	10:41	Aug 4	14:22	Aug 11	13:26	Aug 18	04:00	
Aug 26	01:57	Sep 3	03:11	Sep 9	20:44	Sep 16	15:05	
Sep 24	18:06	Oct 2	14:05	Oct 9	04:48	Oct 16	06:09	
Oct 24	10:33	Oct 31	23:14	Nov 7	14:41	Nov 15	00:52	
Nov 23	02:40	Nov 30	07:10	Dec 7	03:06 n	Dec 14	22:00	
Dec 22	17:44 A	Dec 29	14:49					

Year	New Moon	First Quarter	Full Moon	Last Quarter
Delta T				

2281			Jan 5	18:11 n	Jan 13	19:41
00h11m						

Jan 21	07:07	Jan 27	23:15	Feb 4	11:18	Feb 12	15:53
Feb 19	18:31	Feb 26	09:25	Mar 6	05:22	Mar 14	08:54
Mar 21	04:13	Mar 27	21:41	Apr 4	23:13	Apr 12	21:47
Apr 19	12:51	Apr 26	11:56	May 4	15:48	May 12	06:40
May 18	21:14	May 26	03:42	Jun 3	06:23 p	Jun 10	12:35
Jun 17	06:09 T	Jun 24	20:30	Jul 2	18:35	Jul 9	17:02
Jul 16	16:18	Jul 24	13:47	Aug 1	04:37	Aug 7	21:36
Aug 15	04:14	Aug 23	06:53	Aug 30	13:10	Sep 6	03:50
Sep 13	18:22	Sep 21	22:56	Sep 28	21:18	Oct 5	12:57
Oct 13	10:49	Oct 21	13:09	Oct 28	06:04	Nov 4	01:42
Nov 12	04:59	Nov 20	01:10	Nov 26	16:10 p	Dec 3	18:21
Dec 11	23:29 A	Dec 19	11:08	Dec 26	03:51		

2282  
00h11m

						Jan 2	14:22
Jan 10	16:40	Jan 17	19:41	Jan 24	17:05	Feb 1	12:13
Feb 9	07:23	Feb 16	03:39	Feb 23	07:40	Mar 3	09:39
Mar 10	19:29	Mar 17	11:50	Mar 24	23:29	Apr 2	04:24
Apr 9	05:25	Apr 15	20:55	Apr 23	16:07	May 1	19:13
May 8	13:51 P	May 15	07:27	May 23	08:40 t	May 31	06:03
Jun 6	21:29 P	Jun 13	19:57	Jun 22	00:07	Jun 29	13:44
Jul 6	05:01	Jul 13	10:44	Jul 21	13:44	Jul 28	19:27
Aug 4	13:21	Aug 12	03:38	Aug 20	01:31	Aug 27	00:29
Sep 2	23:29	Sep 10	21:54	Sep 18	12:02	Sep 25	06:06
Oct 2	12:27	Oct 10	16:19	Oct 17	22:04	Oct 24	13:33
Nov 1	04:38 P	Nov 9	09:41	Nov 16	08:13 t	Nov 22	23:59
Nov 30	23:22 P	Dec 9	01:04	Dec 15	18:42	Dec 22	14:13
Dec 30	18:57						

2283  
00h11m

		Jan 7	13:59	Jan 14	05:36	Jan 21	08:10
Jan 29	13:28	Feb 6	00:22	Feb 12	17:01	Feb 20	04:40
Feb 28	05:40	Mar 7	08:32	Mar 14	05:20	Mar 22	01:35
Mar 29	19:09	Apr 5	15:16	Apr 12	18:52	Apr 20	20:56
Apr 28	06:01 T	May 4	21:44	May 12	09:34 p	May 20	13:27
May 27	14:42	Jun 3	05:09	Jun 11	00:53	Jun 19	02:49
Jun 25	21:52	Jul 2	14:41	Jul 10	16:10	Jul 18	13:13
Jul 25	04:32	Aug 1	03:03	Aug 9	06:53	Aug 16	21:12
Aug 23	11:50	Aug 30	18:28	Sep 7	20:53	Sep 15	03:35
Sep 21	21:01	Sep 29	12:28	Oct 7	10:08	Oct 14	09:28
Oct 21	09:03 A	Oct 29	08:07	Nov 5	22:36 p	Nov 12	16:11
Nov 20	00:16	Nov 28	04:07	Dec 5	10:15	Dec 12	01:04
Dec 19	18:06	Dec 27	22:53				

2284  
00h11m

				Jan 3	21:10	Jan 10	13:02
Jan 18	13:21	Jan 26	14:56	Feb 2	07:36	Feb 9	04:14
Feb 17	08:31	Feb 25	03:22	Mar 2	17:57	Mar 9	21:54
Mar 18	02:09	Mar 25	12:16	Apr 1	04:37 n	Apr 8	16:46
Apr 16	17:11 A	Apr 23	18:35	Apr 30	15:55 n	May 8	11:34
May 16	05:07	May 22	23:46	May 30	04:04	Jun 7	05:15
Jun 14	14:18	Jun 21	05:16	Jun 28	17:15	Jul 6	20:59
Jul 13	21:41	Jul 20	12:25	Jul 28	07:36	Aug 5	10:15
Aug 12	04:28	Aug 18	22:12	Aug 26	23:05	Sep 3	20:59
Sep 10	11:53	Sep 17	11:16	Sep 25	15:12 n	Oct 3	05:39
Oct 9	20:52 T	Oct 17	03:51	Oct 25	07:07 n	Nov 1	13:07
Nov 8	08:02	Nov 15	23:37	Nov 23	21:56	Nov 30	20:27
Dec 7	21:40	Dec 15	21:12	Dec 23	11:13	Dec 30	04:42

2285  
00h11m

Jan 6	13:43	Jan 14	18:24	Jan 21	23:04	Jan 28	14:38
Feb 5	07:45	Feb 13	12:57	Feb 20	09:49	Feb 27	02:36
Mar 7	02:42	Mar 15	03:30	Mar 21	19:44 p	Mar 28	16:37



Jan 22	15:15	T	Jan 29	06:53	Feb 6	05:37	Feb 14	07:40
Feb 21	01:54		Feb 27	20:43	Mar 8	00:42	Mar 15	20:14
Mar 22	11:41		Mar 29	13:03	Apr 6	17:47	Apr 14	05:20
Apr 20	21:04		Apr 28	06:58	May 6	08:07	May 13	11:41
May 20	06:54		May 28	01:11	Jun 4	19:49	Jun 11	16:30
Jun 18	18:00		Jun 26	18:34	Jul 4	05:23	Jul 10	21:15
Jul 18	06:52	P	Jul 26	10:27	Aug 2	13:28	Aug 9	03:32
Aug 16	21:27		Aug 25	00:31	Aug 31	20:54	Sep 7	12:44
Sep 15	13:22		Sep 23	12:41	Sep 30	04:36	Oct 7	01:47
Oct 15	05:59		Oct 22	22:59	Oct 29	13:36	Nov 5	18:50
Nov 13	22:38		Nov 21	07:42	Nov 28	00:47	Dec 5	15:03
Dec 13	14:33	P	Dec 20	15:30	Dec 27	14:34		

2290  
00h11m

Jan 4 12:47

Jan 12	04:59	P	Jan 18	23:24	Jan 26	06:40	Feb 3	10:01
Feb 10	17:24		Feb 17	08:28	Feb 25	00:13	Mar 5	04:48
Mar 12	03:47		Mar 18	19:23	Mar 26	18:05	Apr 3	19:46
Apr 10	12:41		Apr 17	08:20	Apr 25	11:14	May 3	06:33
May 9	20:54		May 16	23:04	May 25	02:47	Jun 1	13:47
Jun 8	05:16	T	Jun 15	15:10	Jun 23	16:13	Jun 30	18:46
Jul 7	14:34		Jul 15	08:12	Jul 23	03:22	Jul 29	23:05
Aug 6	01:28		Aug 14	01:35	Aug 21	12:43	Aug 28	04:20
Sep 4	14:28		Sep 12	18:31	Sep 19	21:07	Sep 26	11:54
Oct 4	05:53		Oct 12	10:05	Oct 19	05:39	Oct 25	22:47
Nov 2	23:30		Nov 10	23:34	Nov 17	15:11	Nov 24	13:31
Dec 2	18:15	A	Dec 10	10:46	Dec 17	02:10	Dec 24	07:58

Year  
Delta T

New Moon                      First Quarter                      Full Moon                      Last Quarter

2291  
00h11m

Jan 1	12:27	Jan 8	20:04	Jan 15	14:36	Jan 23	05:05
Jan 31	04:35	Feb 7	04:12	Feb 14	04:22	Feb 22	02:55
Mar 1	17:56	Mar 8	12:03	Mar 15	19:21	Mar 23	23:09
Mar 31	04:46	Apr 6	20:20	Apr 14	11:21	Apr 22	15:57
Apr 29	13:44	May 6	05:45	May 14	03:51	May 22	04:43
May 28	21:33	Jun 4	16:55	Jun 12	19:51	Jun 20	13:54
Jun 27	04:55	Jul 4	06:18	Jul 12	10:28	Jul 19	20:34
Jul 26	12:40	Aug 2	22:06	Aug 10	23:17	Aug 18	01:54
Aug 24	21:45	Sep 1	15:53	Sep 9	10:34	Sep 16	07:11
Sep 23	09:14	Oct 1	10:36	Oct 8	21:01	Oct 15	13:40
Oct 22	23:54	Oct 31	04:57	Nov 7	07:17	Nov 13	22:32
Nov 21	17:38	Nov 29	21:44	Dec 6	17:46	Dec 13	10:48
Dec 21	13:09	Dec 29	12:10				

2292  
00h11m

Jan 5 04:31                      Jan 12 02:52

Jan 20	08:29	Jan 27	23:55	Feb 3	15:34	Feb 10	22:08
Feb 19	01:57	Feb 26	09:06	Mar 4	03:12	Mar 11	18:53
Mar 19	16:45	Mar 26	16:19	Apr 2	15:49	Apr 10	15:03
Apr 18	04:48	Apr 24	22:33	May 2	05:40	May 10	08:58
May 17	14:25	May 24	05:05	May 31	20:31	Jun 8	23:55
Jun 15	22:10	Jun 22	13:12	Jun 30	11:46	Jul 8	11:52
Jul 15	04:56	Jul 21	23:53	Jul 30	02:51	Aug 6	21:11
Aug 13	11:46	Aug 20	13:42	Aug 28	17:23	Sep 5	04:29
Sep 11	19:56	Sep 19	06:32	Sep 27	07:17	Oct 4	10:40
Oct 11	06:32	Oct 19	01:41	Oct 26	20:26	Nov 2	16:57
Nov 9	20:15	Nov 17	21:56	Nov 25	08:46	Dec 2	00:41
Dec 9	12:56	Dec 17	17:45	Dec 24	20:11	Dec 31	11:00

2293	Jan 8	07:40	Jan 16	11:30	Jan 23	06:50	Jan 30	00:29
00h11m	Feb 7	03:00	Feb 15	01:53	Feb 21	17:04	Feb 28	16:47
	Mar 8	21:29	Mar 16	12:28	Mar 23	03:20	Mar 30	10:54
	Apr 7	13:49 P	Apr 14	19:50	Apr 21	14:01 t	Apr 29	05:36
	May 7	03:14 P	May 14	01:15	May 21	01:27	May 28	23:48
	Jun 5	13:41	Jun 12	06:16	Jun 19	13:53	Jun 27	16:35
	Jul 4	21:50	Jul 11	12:18	Jul 19	03:31	Jul 27	07:17
	Aug 3	04:49	Aug 9	20:32	Aug 17	18:29	Aug 25	19:32
	Sep 1	11:53	Sep 8	07:51	Sep 16	10:33	Sep 24	05:28
	Sep 30	20:06 P	Oct 7	22:42	Oct 16	02:57 t	Oct 23	13:41
	Oct 30	06:15 P	Nov 6	17:04	Nov 14	18:42	Nov 21	21:09
	Nov 28	18:43	Dec 6	14:07	Dec 14	09:00	Dec 21	04:56
	Dec 28	09:34						

2294			Jan 5	11:57	Jan 12	21:40	Jan 19	13:54
00h11m	Jan 27	02:35	Feb 4	08:08	Feb 11	08:55	Feb 18	00:38
	Feb 25	21:05	Mar 6	00:47	Mar 12	19:07	Mar 19	13:20
	Mar 27	15:43 A	Apr 4	13:13	Apr 11	04:30 p	Apr 18	03:59
	Apr 26	08:49	May 3	21:55	May 10	13:26	May 17	20:19
	May 25	23:14	Jun 2	04:02	Jun 8	22:29	Jun 16	13:44
	Jun 24	10:50	Jul 1	08:50	Jul 8	08:31	Jul 16	07:18
	Jul 23	20:18	Jul 30	13:40	Aug 6	20:28	Aug 15	00:02
	Aug 22	04:39	Aug 28	19:52	Sep 5	10:54	Sep 13	15:09
	Sep 20	12:51 T	Sep 27	04:43	Oct 5	03:36 p	Oct 13	04:23
	Oct 19	21:37	Oct 26	17:19	Nov 3	21:31	Nov 11	15:48
	Nov 18	07:25	Nov 25	10:11	Dec 3	15:13	Dec 11	01:37
	Dec 17	18:40	Dec 25	06:38				

2295					Jan 2	07:36	Jan 9	10:15
00h11m	Jan 16	07:46	Jan 24	04:45	Jan 31	22:08	Feb 7	18:17
	Feb 14	22:56	Feb 23	02:02	Mar 2	10:38 n	Mar 9	02:32
	Mar 16	15:45 A	Mar 24	20:29	Mar 31	21:05 n	Apr 7	11:55
	Apr 15	09:08	Apr 23	11:13	Apr 30	05:45	May 6	23:10
	May 15	01:46	May 22	22:11	May 29	13:15	Jun 5	12:36
	Jun 13	16:48	Jun 21	05:58	Jun 27	20:37	Jul 5	04:06
	Jul 13	06:02	Jul 20	11:30	Jul 27	05:04	Aug 3	21:05
	Aug 11	17:40	Aug 18	16:04	Aug 25	15:40 n	Sep 2	14:49
	Sep 10	04:08 T	Sep 16	21:12	Sep 24	05:04 n	Oct 2	08:30
	Oct 9	13:53	Oct 16	04:28	Oct 23	21:12	Nov 1	01:19
	Nov 7	23:23	Nov 14	15:11	Nov 22	15:20	Nov 30	16:24
	Dec 7	09:12	Dec 14	05:58	Dec 22	10:19	Dec 30	04:59

Year	New Moon	First Quarter	Full Moon	Last Quarter
Delta T				
2296	Jan 5	Jan 13	Jan 21	Jan 28
00h11m	Feb 4	Feb 11	Feb 19	Feb 26
	Mar 4	Mar 12	Mar 20	Mar 27
	Apr 3	Apr 11	Apr 18	Apr 25
	May 3	May 11	May 18	May 24
	Jun 1	Jun 9	Jun 16	Jun 23
	Jul 1	Jul 9	Jul 15	Jul 22
	Jul 30	Aug 7	Aug 14	Aug 21
	Aug 29	Sep 5	Sep 12	Sep 20
	Sep 28	Oct 5	Oct 12	Oct 20
	Oct 27	Nov 3	Nov 10	Nov 18
	Nov 26	Dec 2	Dec 10	Dec 18

Dec 25 11:27

2297  
00h11m

Jan 1 04:32	Jan 9 04:55	Jan 17 05:55
Jan 23 22:16 P	Jan 30 19:55	Feb 8 00:36 t
Feb 22 09:18 P	Mar 1 13:53	Feb 15 17:48
Mar 23 20:27	Mar 31 09:23	Mar 9 18:30
Apr 22 07:56	Apr 30 04:53	Mar 17 02:38
May 21 20:13	May 29 22:51	Apr 8 09:16
Jun 20 09:48	Jun 28 14:12	Apr 15 09:23
Jul 20 00:42 P	Jul 28 02:41	May 7 20:46
Aug 18 16:25	Aug 26 12:39	May 14 15:10
Sep 17 08:06	Sep 24 20:52	Jun 6 05:47
Oct 16 23:00	Oct 24 04:11	Jun 12 21:10
Nov 15 12:54	Nov 22 11:27	Jul 5 13:22
Dec 15 01:52	Dec 21 19:33	Jul 12 04:30
		Aug 3 20:28 t
		Aug 10 14:15
		Sep 2 03:56
		Sep 9 03:22
		Oct 1 12:34
		Oct 8 20:12
		Oct 30 23:11
		Nov 7 16:08
		Nov 29 12:35
		Dec 7 13:29
		Dec 29 05:03

2298  
00h11m

Jan 13 13:58 T	Jan 20 05:24	Jan 27 23:49 p	Jan 6 10:05
Feb 12 01:04	Feb 18 17:38	Feb 26 19:12	Feb 5 04:05
Mar 13 11:07	Mar 20 08:29	Mar 28 13:18	Mar 6 18:32
Apr 11 20:23	Apr 19 01:25	Apr 27 04:56	Apr 5 05:17
May 11 05:38	May 18 19:22	May 26 17:51	May 4 12:49
Jun 9 15:47	Jun 17 13:09	Jun 25 04:25	Jun 2 18:08
Jul 9 03:34 A	Jul 17 05:53	Jul 24 13:14 p	Jul 1 22:38
Aug 7 17:16	Aug 15 21:04	Aug 22 21:00	Jul 31 03:53
Sep 6 08:39	Sep 14 10:30	Sep 21 04:36	Aug 29 11:24
Oct 6 01:11	Oct 13 22:04	Oct 20 12:59	Sep 27 22:27
Nov 4 18:10	Nov 12 07:49	Nov 18 23:06	Oct 27 13:35
Dec 4 10:48	Dec 11 16:10	Dec 18 11:36 n	Nov 26 08:27
			Dec 26 05:44

2299  
00h12m

Jan 3 02:15 A	Jan 9 23:56	Jan 17 02:34 n	Jan 25 03:30
Feb 1 15:47	Feb 8 08:12	Feb 15 19:21	Feb 23 23:43
Mar 3 03:06	Mar 9 17:54	Mar 17 12:58	Mar 25 16:40
Apr 1 12:31	Apr 8 05:31	Apr 16 06:22	Apr 24 05:30
Apr 30 20:46	May 7 19:03	May 15 22:40	May 23 14:23
May 30 04:46	Jun 6 10:13	Jun 14 13:10 p	Jun 21 20:19
Jun 28 13:21 T	Jul 6 02:41	Jul 14 01:31	Jun 28 00:47
Jul 27 23:17	Aug 4 20:00	Aug 12 11:50	Jul 21 00:47
Aug 26 11:09	Sep 3 13:27	Aug 20 20:47	Aug 19 05:24
Sep 25 01:24	Oct 3 06:08	Sep 10 05:21	Sep 17 11:41
Oct 24 18:08	Nov 1 21:05	Oct 10 14:29	Oct 16 20:51
Nov 23 12:42	Dec 1 09:43	Nov 8 00:50 p	Nov 15 09:40
Dec 23 07:35 A	Dec 30 20:06		Dec 15 02:19

2300  
00h12m

Jan 22 01:01	Jan 29 04:46	Feb 5 01:34	Jan 6 12:34	Jan 13 22:13
Feb 20 15:48	Feb 27 12:33	Mar 6 15:43		Feb 12 19:53
Mar 22 03:45	Mar 28 20:19	Apr 5 06:58		Mar 14 17:04
Apr 20 13:26	Apr 27 04:48	May 4 23:02		Apr 13 11:39
May 19 21:36 P	May 26 14:42	Jun 3 15:15 t		May 13 02:24
Jun 18 04:59 P	Jun 25 02:39	Jul 3 06:38		Jun 11 13:19
Jul 17 12:22	Jul 24 17:05	Aug 1 20:28		Jul 10 21:12
Aug 15 20:38	Aug 23 09:58	Aug 31 08:40		Aug 9 03:11
Sep 14 06:49	Sep 22 04:32	Sep 29 19:41		Sep 7 08:29
Oct 13 19:54	Oct 21 23:31	Oct 29 06:15		Oct 6 14:20
Nov 12 12:18	Nov 20 17:32	Nov 27 16:48 t		Nov 4 21:57
Dec 12 07:15 P	Dec 20 09:29	Dec 27 03:32		Dec 4 08:26



Year	New Moon	First Quarter	Full Moon	Last Quarter
2301				Jan 2 22:32
00h12m				
	Jan 11 02:59	Jan 18 22:46	Jan 25 14:23	Feb 1 16:11
	Feb 9 21:34	Feb 17 09:14	Feb 24 01:32	Mar 3 12:13
	Mar 11 13:43	Mar 18 17:15	Mar 25 13:21	Apr 2 08:42
	Apr 10 03:02	Apr 16 23:39	Apr 24 02:17	May 2 03:43
	May 9 13:43 T	May 16 05:39	May 23 16:25 p	May 31 20:09
	Jun 7 22:14	Jun 14 12:35	Jun 22 07:22	Jun 30 09:40
	Jul 7 05:21	Jul 13 21:40	Jul 21 22:34	Jul 29 20:25
	Aug 5 12:01	Aug 12 09:45	Aug 20 13:31	Aug 28 04:52
	Sep 3 19:25	Sep 11 01:07	Sep 19 03:59	Sep 26 11:43
	Oct 3 04:46	Oct 10 19:20	Oct 18 17:49	Oct 25 18:00
	Nov 1 16:58 A	Nov 9 15:25	Nov 17 06:51 p	Nov 24 00:58
	Dec 1 08:18	Dec 9 11:54	Dec 16 18:56	Dec 23 09:53
	Dec 31 02:10			
2302		Jan 8 07:05	Jan 15 06:01	Jan 21 21:39
00h12m				
	Jan 29 21:20	Feb 6 23:22	Feb 13 16:21	Feb 20 12:24
	Feb 28 16:20	Mar 8 11:51	Mar 15 02:22	Mar 22 05:27
	Mar 30 09:45	Apr 6 20:39	Apr 13 12:33 n	Apr 20 23:42
	Apr 29 00:36 A	May 6 02:45	May 12 23:19 n	May 20 18:03
	May 28 12:27	Jun 4 07:39	Jun 11 10:58	Jun 19 11:34
	Jun 26 21:38	Jul 3 12:52	Jul 10 23:50	Jul 19 03:29
	Jul 26 05:06	Aug 1 19:45	Aug 9 14:06	Aug 17 17:12
	Aug 24 12:05	Aug 31 05:22	Sep 8 05:47	Sep 16 04:33
	Sep 22 19:44	Sep 29 18:24	Oct 7 22:22 n	Oct 15 13:50
	Oct 22 04:59 T	Oct 29 11:08	Nov 6 14:51 n	Nov 13 21:49
	Nov 20 16:22	Nov 28 07:08	Dec 6 06:13	Dec 13 05:28
	Dec 20 06:03	Dec 28 04:58		
2303			Jan 4 19:51	Jan 11 13:45
00h12m				
	Jan 18 21:57	Jan 27 02:21	Feb 3 07:49	Feb 9 23:26
	Feb 17 15:41	Feb 25 20:58	Mar 4 18:25	Mar 11 10:52
	Mar 19 10:15	Mar 27 11:29	Apr 3 04:01 p	Apr 10 00:13
	Apr 18 04:07 A	Apr 25 21:55	May 2 12:55	May 9 15:24
	May 17 19:52	May 25 05:08	May 31 21:36	Jun 8 08:07
	Jun 16 08:50	Jun 23 10:24	Jun 30 06:51	Jul 8 01:38
	Jul 15 19:19	Jul 22 15:02	Jul 29 17:37	Aug 6 18:59
	Aug 14 04:14	Aug 20 20:22	Aug 28 06:45	Sep 5 11:13
	Sep 12 12:35	Sep 19 03:45	Sep 26 22:30 p	Oct 5 01:45
	Oct 11 21:11 T	Oct 18 14:22	Oct 26 16:11	Nov 3 14:24
	Nov 10 06:35	Nov 17 05:07	Nov 25 10:24	Dec 3 01:16
	Dec 9 17:10	Dec 16 23:58	Dec 25 03:44	
2304				Jan 1 10:35
00h12m				
	Jan 8 05:16	Jan 15 21:32	Jan 23 19:21	Jan 30 18:50
	Feb 6 19:16	Feb 14 19:28	Feb 22 08:53	Feb 29 02:44
	Mar 7 11:07 P	Mar 15 15:27	Mar 22 20:16 t	Mar 29 11:11
	Apr 6 04:07 P	Apr 14 08:02	Apr 21 05:37	Apr 27 21:06
	May 5 21:02	May 13 20:50	May 20 13:26	May 27 09:05
	Jun 4 12:49	Jun 12 06:09	Jun 18 20:36	Jun 25 23:21
	Jul 4 02:57	Jul 11 12:45	Jul 18 04:16	Jul 25 15:34
	Aug 2 15:28	Aug 9 17:43	Aug 16 13:37	Aug 24 09:04
	Sep 1 02:41 P	Sep 7 22:28	Sep 15 01:36 t	Sep 23 03:06
	Sep 30 12:59 P	Oct 7 04:33	Oct 14 16:30	Oct 22 20:47
	Oct 29 22:46	Nov 5 13:27	Nov 13 09:54	Nov 21 13:11
	Nov 28 08:32	Dec 5 02:12	Dec 13 04:46	Dec 21 03:21

Dec 27 18:48

2305 00h12m		Jan 3 18:51	Jan 11 23:45	Jan 19 14:43
	Jan 26 06:03	Feb 2 14:27	Feb 10 17:26	Feb 17 23:30
	Feb 24 18:28 A	Mar 4 11:19	Mar 12 08:39 p	Mar 19 06:33
	Mar 26 08:01	Apr 3 07:38	Apr 10 20:49	Apr 17 13:09
	Apr 24 22:24	May 3 01:52	May 10 06:09	May 16 20:29
	May 24 13:18	Jun 1 17:00	Jun 8 13:35	Jun 15 05:28
	Jun 23 04:29	Jul 1 04:42	Jul 7 20:18	Jul 14 16:44
	Jul 22 19:37	Jul 30 13:19	Aug 6 03:26	Aug 13 06:36
	Aug 21 10:15 A	Aug 28 19:48	Sep 4 12:00 p	Sep 11 23:10
	Sep 19 23:53	Sep 27 01:26	Oct 3 22:44	Oct 11 18:04
	Oct 19 12:16	Oct 26 07:37	Nov 2 12:07	Nov 10 14:11
	Nov 17 23:38	Nov 24 15:38	Dec 2 04:22	Dec 10 09:43
	Dec 17 10:29	Dec 24 02:20	Dec 31 23:03	

Year            New Moon            First Quarter            Full Moon            Last Quarter  
Delta T

2306 00h12m				Jan 9 02:53
	Jan 15 21:16	Jan 22 16:03	Jan 30 18:51 n	Feb 7 16:35
	Feb 14 08:07 T	Feb 21 08:35	Mar 1 13:49 n	Mar 9 02:51
	Mar 15 19:01	Mar 23 03:12	Mar 31 06:10	Apr 7 10:25
	Apr 14 06:01	Apr 21 22:38	Apr 29 19:10	May 6 16:24
	May 13 17:33	May 21 17:23	May 29 05:14	Jun 4 21:58
	Jun 12 06:12	Jun 20 10:07	Jun 27 13:23	Jul 4 04:18
	Jul 11 20:20	Jul 20 00:10	Jul 26 20:39 n	Aug 2 12:34
	Aug 10 11:45 A	Aug 18 11:33	Aug 25 03:55 n	Aug 31 23:50
	Sep 9 03:43	Sep 16 20:50	Sep 23 11:58	Sep 30 14:50
	Oct 8 19:20	Oct 16 04:46	Oct 22 21:37	Oct 30 09:28
	Nov 7 10:02	Nov 14 12:09	Nov 21 09:37	Nov 29 06:33
	Dec 6 23:43	Dec 13 19:50	Dec 21 00:35	Dec 29 03:57

2307 00h12m	Jan 5 12:24	Jan 12 04:41	Jan 19 18:18 p	Jan 27 23:32
	Feb 4 00:03 T	Feb 10 15:29	Feb 18 13:29	Feb 26 15:53
	Mar 5 10:30	Mar 12 04:46	Mar 20 08:16	Mar 28 04:26
	Apr 3 19:54	Apr 10 20:24	Apr 19 01:05	Apr 26 13:26
	May 3 04:50	May 10 13:41	May 18 15:16	May 25 19:38
	Jun 1 14:11	Jun 9 07:29	Jun 17 02:57	Jun 24 00:17
	Jul 1 00:53	Jul 9 00:47	Jul 16 12:37 t	Jul 23 04:53
	Jul 30 13:30 A	Aug 7 16:56	Aug 14 20:56	Aug 21 11:02
	Aug 29 04:07	Sep 6 07:32	Sep 13 04:39	Sep 19 20:10
	Sep 27 20:17	Oct 5 20:22	Oct 12 12:41	Oct 19 09:15
	Oct 27 13:22	Nov 4 07:20	Nov 10 21:59	Nov 18 02:25
	Nov 26 06:33	Dec 3 16:33	Dec 10 09:19	Dec 17 22:46
	Dec 25 22:56 P			

2308 00h12m		Jan 2 00:36	Jan 8 23:03 t	Jan 16 20:35
	Jan 24 13:36 P	Jan 31 08:27	Feb 7 14:53	Feb 15 17:48
	Feb 23 02:00	Feb 29 17:10	Mar 8 08:00	Mar 16 12:31
	Mar 23 12:11	Mar 30 03:30	Apr 7 01:23	Apr 15 03:25
	Apr 21 20:44	Apr 28 15:45	May 6 18:09	May 14 14:11
	May 21 04:34	May 28 05:49	Jun 5 09:32	Jun 12 21:27
	Jun 19 12:36 T	Jun 26 21:28	Jul 4 23:01 t	Jul 12 02:30
	Jul 18 21:40	Jul 26 14:21	Aug 3 10:26	Aug 10 06:53
	Aug 17 08:26	Aug 25 07:58	Sep 1 20:09	Sep 8 12:12
	Sep 15 21:29	Sep 24 01:26	Oct 1 05:00	Oct 7 19:51

Oct 15	13:07	Oct 23	17:42	Oct 30	13:58	Nov 6	06:48
Nov 14	07:04	Nov 22	07:52	Nov 28	23:49	Dec 5	21:33
Dec 14	02:12 A	Dec 21	19:34	Dec 28	10:55 p		

2309  
00h12m

						Jan 4	15:55
Jan 12	20:42	Jan 20	05:07	Jan 26	23:14	Feb 3	12:50
Feb 11	12:57	Feb 18	13:12	Feb 25	12:38	Mar 5	10:24
Mar 13	02:14	Mar 19	20:43	Mar 27	03:03	Apr 4	06:23
Apr 11	12:52	Apr 18	04:29	Apr 25	18:29	May 3	23:04
May 10	21:34	May 17	13:17	May 25	10:31	Jun 2	11:52
Jun 9	05:08 T	Jun 15	23:51	Jun 24	02:20 n	Jul 1	21:14
Jul 8	12:20	Jul 15	12:48	Jul 23	17:03	Jul 31	04:10
Aug 6	20:00	Aug 14	04:26	Aug 22	06:13	Aug 29	09:49
Sep 5	05:07	Sep 12	22:22	Sep 20	18:00	Sep 27	15:23
Oct 4	16:42	Oct 12	17:34	Oct 20	05:00	Oct 26	22:04
Nov 3	07:32	Nov 11	12:32	Nov 18	15:45 n	Nov 25	07:03
Dec 3	01:28 A	Dec 11	05:55	Dec 18	02:33 n	Dec 24	19:14

2310  
00h12m

Jan 1	21:09	Jan 9	20:47	Jan 16	13:22	Jan 23	11:03
Jan 31	16:33	Feb 8	08:44	Feb 15	00:13	Feb 22	05:53
Mar 2	09:59	Mar 9	17:52	Mar 16	11:26	Mar 24	02:09
Apr 1	00:39	Apr 8	00:49	Apr 14	23:29	Apr 22	21:53
Apr 30	12:31	May 7	06:39	May 14	12:44 p	May 22	15:36
May 29	21:58 T	Jun 5	12:44	Jun 13	03:07	Jun 21	06:37
Jun 28	05:39	Jul 4	20:23	Jul 12	18:10	Jul 20	18:51
Jul 27	12:25	Aug 3	06:44	Aug 11	09:21	Aug 19	04:37
Aug 25	19:21	Sep 1	20:24	Sep 10	00:17	Sep 17	12:25
Sep 24	03:40	Oct 1	13:21	Oct 9	14:44	Oct 16	19:05
Oct 23	14:27	Oct 31	08:49	Nov 8	04:29 p	Nov 15	01:42
Nov 22	04:18 A	Nov 30	05:32	Dec 7	17:18	Dec 14	09:33
Dec 21	21:03	Dec 30	01:47				

Year	New Moon	First Quarter	Full Moon	Last Quarter
Delta T				

2311  
00h12m

				Jan 6	04:59	Jan 12	19:46
Jan 20	15:42	Jan 28	19:48	Feb 4	15:39	Feb 11	08:53
Feb 19	10:52	Feb 27	10:18	Mar 6	01:39	Mar 13	00:36
Mar 21	05:07	Mar 28	20:50	Apr 4	11:29	Apr 11	18:03
Apr 19	21:14 P	Apr 27	04:02	May 3	21:38 t	May 11	12:12
May 19	10:32 P	May 26	09:14	Jun 2	08:33	Jun 10	06:06
Jun 17	20:57	Jun 24	13:59	Jul 1	20:35	Jul 9	22:56
Jul 17	05:11	Jul 23	19:46	Jul 31	10:03	Aug 8	13:59
Aug 15	12:21	Aug 22	03:49	Aug 30	01:06	Sep 7	02:48
Sep 13	19:39	Sep 20	15:03	Sep 28	17:30	Oct 6	13:23
Oct 13	04:09 P	Oct 20	05:58	Oct 28	10:27 t	Nov 4	22:12
Nov 11	14:33 P	Nov 19	00:32	Nov 27	02:46	Dec 4	06:05
Dec 11	03:08	Dec 18	21:48	Dec 26	17:31		

2312  
00h12m

						Jan 2	14:02
Jan 9	17:55	Jan 17	19:48	Jan 25	06:23	Jan 31	22:52
Feb 8	10:41	Feb 16	16:04	Feb 23	17:35	Mar 1	09:10
Mar 9	04:47	Mar 17	08:43	Mar 24	03:30	Mar 30	21:14
Apr 7	22:59 A	Apr 15	21:06	Apr 22	12:31 p	Apr 29	11:10
May 7	15:48	May 15	05:45	May 21	21:01	May 29	02:52
Jun 6	06:08	Jun 13	11:49	Jun 20	05:42	Jun 27	19:55
Jul 5	17:49	Jul 12	16:35	Jul 19	15:27	Jul 27	13:29

Aug 4	03:31	Aug 10	21:24	Aug 18	03:16	Aug 26	06:34
Sep 2	12:13	Sep 9	03:36	Sep 16	17:47	Sep 24	22:18
Oct 1	20:48 T	Oct 8	12:29	Oct 16	10:47 p	Oct 24	12:15
Oct 31	05:56	Nov 7	01:08	Nov 15	05:08	Nov 23	00:18
Nov 29	16:01	Dec 6	18:01	Dec 14	23:17	Dec 22	10:35
Dec 29	03:21						

2313		Jan 5	14:27	Jan 13	15:59	Jan 20	19:22
00h12m							
Jan 27	16:17	Feb 4	12:28	Feb 12	06:37	Feb 19	03:15
Feb 26	07:02	Mar 6	09:35	Mar 13	19:01 n	Mar 20	11:05
Mar 27	23:19 A	Apr 5	03:54	Apr 12	05:14 n	Apr 18	19:52
Apr 26	16:10	May 4	18:33	May 11	13:35	May 18	06:26
May 26	08:27	Jun 3	05:34	Jun 9	20:48	Jun 16	19:17
Jun 24	23:23	Jul 2	13:29	Jul 9	03:58	Jul 16	10:24
Jul 24	12:46	Jul 31	19:13	Aug 7	12:16	Aug 15	03:21
Aug 23	00:46	Aug 30	00:00	Sep 5	22:52 n	Sep 13	21:22
Sep 21	11:43 T	Sep 28	05:19	Oct 5	12:22 n	Oct 13	15:37
Oct 20	21:58	Oct 27	12:43	Nov 4	04:44	Nov 12	09:07
Nov 19	07:54	Nov 25	23:29	Dec 3	23:09	Dec 12	00:48
Dec 18	17:58	Dec 25	14:12				

2314				Jan 2	18:21	Jan 10	13:47
00h12m							
Jan 17	04:41	Jan 24	08:23	Feb 1	12:55	Feb 8	23:51
Feb 15	16:23	Feb 23	04:39	Mar 3	05:28 p	Mar 10	07:34
Mar 17	05:09 A	Mar 25	01:15	Apr 1	19:07	Apr 8	14:03
Apr 15	18:51	Apr 23	20:31	May 1	05:41	May 7	20:38
May 15	09:15	May 23	13:15	May 30	13:51	Jun 6	04:26
Jun 14	00:08	Jun 22	02:44	Jun 28	20:42	Jul 5	14:16
Jul 13	15:17	Jul 21	12:58	Jul 28	03:28	Aug 4	02:39
Aug 12	06:20	Aug 19	20:34	Aug 26	11:14 p	Sep 2	17:51
Sep 10	20:45 A	Sep 18	02:40	Sep 24	20:53	Oct 2	11:47
Oct 10	10:03	Oct 17	08:36	Oct 24	08:59	Nov 1	07:41
Nov 8	22:10	Nov 15	15:41	Nov 22	23:52	Dec 1	04:02
Dec 8	09:25	Dec 15	01:00	Dec 22	17:28	Dec 30	22:48

2315		Jan 6	20:17	Jan 13	13:07	Jan 21	12:55	Jan 29	14:26
00h12m									
Feb 5	07:05 P	Feb 12	04:06	Feb 20	08:31 t	Feb 28	02:24		
Mar 6	17:48 P	Mar 13	21:30	Mar 22	02:15	Mar 29	11:08		
Apr 5	04:29	Apr 12	16:24	Apr 20	16:51	Apr 27	17:39		
May 4	15:24	May 12	11:28	May 20	04:13	May 26	23:07		
Jun 3	03:10	Jun 11	05:16	Jun 18	13:11	Jun 25	04:45		
Jul 2	16:21	Jul 10	20:46	Jul 17	20:47	Jul 24	11:46		
Aug 1	07:08 P	Aug 9	09:38	Aug 16	04:00 t	Aug 22	21:19		
Aug 30	23:02	Sep 7	20:10	Sep 14	11:41	Sep 21	10:22		
Sep 29	15:10	Oct 7	04:59	Oct 13	20:33	Oct 21	03:20		
Oct 29	06:40	Nov 5	12:48	Nov 12	07:23	Nov 19	23:32		
Nov 27	21:07	Dec 4	20:23	Dec 11	20:53	Dec 19	21:13		
Dec 27	10:30								

Year	New Moon	First Quarter	Full Moon	Last Quarter			
2316		Jan 3	04:34	Jan 10	13:16	Jan 18	18:04
00h12m							
Jan 25	22:45 T	Feb 1	14:12	Feb 9	07:48 p	Feb 17	12:13
Feb 24	09:45	Mar 2	01:57	Mar 10	02:51	Mar 18	02:41
Mar 24	19:29	Mar 31	16:08	Apr 8	20:38	Apr 16	13:21
Apr 23	04:20	Apr 30	08:22	May 8	12:03	May 15	20:47

May 22	13:07	May 30	01:47	Jun 7	00:54	Jun 14	01:59
Jun 20	22:50	Jun 28	19:20	Jul 6	11:33	Jul 13	06:21
Jul 20	10:19 A	Jul 28	12:12	Aug 4	20:34 p	Aug 11	11:29
Aug 18	23:55	Aug 27	03:49	Sep 3	04:38	Sep 9	18:56
Sep 17	15:28	Sep 25	17:53	Oct 2	12:35	Oct 9	05:58
Oct 17	08:24	Oct 25	06:09	Oct 31	21:17	Nov 7	21:11
Nov 16	01:53	Nov 23	16:29	Nov 30	07:38	Dec 7	16:09
Dec 15	19:01	Dec 23	01:12	Dec 29	20:11 n		

2317  
00h12m

Jan 14	10:47 A	Jan 21	09:02	Jan 28	10:56 n	Feb 5	11:16
Feb 13	00:23	Feb 19	17:05	Feb 27	03:19	Mar 7	07:24
Mar 14	11:33	Mar 21	02:17	Mar 28	20:26	Apr 6	00:16
Apr 12	20:41	Apr 19	13:14	Apr 27	13:23	May 5	13:04
May 12	04:35	May 19	02:05	May 27	05:24	Jun 3	21:58
Jun 10	12:14	Jun 17	16:42	Jun 25	19:52 p	Jul 3	03:59
Jul 9	20:34 T	Jul 17	08:53	Jul 25	08:25	Aug 1	08:34
Aug 8	06:20	Aug 16	02:15	Aug 23	19:06	Aug 30	13:17
Sep 6	18:11	Sep 14	20:07	Sep 22	04:30	Sep 28	19:41
Oct 6	08:35	Oct 14	13:27	Oct 21	13:31	Oct 28	04:56
Nov 5	01:37	Nov 13	05:06	Nov 19	23:02	Nov 26	17:46
Dec 4	20:31	Dec 12	18:20	Dec 19	09:36 p	Dec 26	10:22

2318  
00h13m

Jan 3	15:43 A	Jan 11	05:03	Jan 17	21:18	Jan 25	06:05
Feb 2	09:19	Feb 9	13:47	Feb 16	10:01	Feb 24	03:27
Mar 4	00:05	Mar 10	21:22	Mar 17	23:40	Mar 26	00:20
Apr 2	11:53	Apr 9	04:42	Apr 16	14:19	Apr 24	18:43
May 1	21:20	May 8	12:36	May 16	05:51	May 24	09:27
May 31	05:15 P	Jun 6	21:54	Jun 14	21:44 t	Jun 22	20:31
Jun 29	12:28 P	Jul 6	09:21	Jul 14	13:06	Jul 22	04:39
Jul 28	19:45	Aug 4	23:30	Aug 13	03:13	Aug 20	10:58
Aug 27	04:01	Sep 3	16:23	Sep 11	15:52	Sep 18	16:36
Sep 25	14:17	Oct 3	11:18	Oct 11	03:27	Oct 17	22:43
Oct 25	03:32	Nov 2	06:50	Nov 9	14:32	Nov 16	06:30
Nov 23	20:06	Dec 2	01:28	Dec 9	01:29 t	Dec 15	16:59
Dec 23	15:12 P	Dec 31	17:55				

2319  
00h13m

				Jan 7	12:23	Jan 14	06:54
Jan 22	11:01	Jan 30	07:29	Feb 5	23:09	Feb 13	00:09
Feb 21	05:35	Feb 28	17:59	Mar 7	09:57	Mar 14	19:41
Mar 22	21:36	Mar 30	01:50	Apr 5	21:15	Apr 13	15:40
Apr 21	10:45	Apr 28	07:55	May 5	09:35	May 13	10:22
May 20	21:17 T	May 27	13:29	Jun 3	23:11 p	Jun 12	02:45
Jun 19	05:43	Jun 25	19:59	Jul 3	13:49	Jul 11	16:27
Jul 18	12:49	Jul 25	04:42	Aug 2	05:00	Aug 10	03:37
Aug 16	19:34	Aug 23	16:34	Aug 31	20:14	Sep 8	12:35
Sep 15	03:07	Sep 22	07:55	Sep 30	11:12	Oct 7	19:58
Oct 14	12:39	Oct 22	02:23	Oct 30	01:38	Nov 6	02:40
Nov 13	01:02 A	Nov 20	22:51	Nov 28	15:13 p	Dec 5	09:51
Dec 12	16:27	Dec 20	19:45	Dec 28	03:39		

2320  
00h13m

						Jan 3	18:46
Jan 11	10:17	Jan 19	15:15	Jan 26	14:51	Feb 2	06:16
Feb 10	05:16	Feb 18	07:42	Feb 25	01:02	Mar 2	20:30
Mar 11	00:01	Mar 18	20:12	Mar 25	10:42	Apr 1	12:53
Apr 9	17:12	Apr 17	04:53	Apr 23	20:23 n	May 1	06:30
May 9	07:52 A	May 16	10:48	May 23	06:38 n	May 31	00:25
Jun 7	19:40	Jun 14	15:29	Jun 21	17:51	Jun 29	17:50
Jul 7	04:55	Jul 13	20:28	Jul 21	06:26	Jul 29	09:58

Aug 5	12:33	Aug 12	03:09	Aug 19	20:41	Aug 28	00:11
Sep 3	19:46	Sep 10	12:40	Sep 18	12:36	Sep 26	12:11
Oct 3	03:42	Oct 10	01:43	Oct 18	05:39 n	Oct 25	22:07
Nov 1	13:14 T	Nov 8	18:34	Nov 16	22:42 n	Nov 24	06:37
Dec 1	00:48	Dec 8	14:45	Dec 16	14:34	Dec 23	14:32
Dec 30	14:29						

Year Delta T	New Moon	First Quarter	Full Moon	Last Quarter
2321 00h13m		Jan 7 12:45	Jan 15 04:30	Jan 21 22:49
	Jan 29 06:11	Feb 6 10:13	Feb 13 16:29	Feb 20 08:10
	Feb 27 23:32	Mar 8 04:50	Mar 15 02:55	Mar 21 19:03
	Mar 29 17:39	Apr 6 19:19	Apr 13 12:10 p	Apr 20 07:42
	Apr 28 11:09 A	May 6 05:42	May 12 20:39	May 19 22:12
	May 28 02:43	Jun 4 12:54	Jun 11 04:58	Jun 18 14:25
	Jun 26 15:43	Jul 3 18:09	Jul 10 13:55	Jul 18 07:46
	Jul 26 02:24	Aug 1 22:47	Aug 9 00:30	Aug 17 01:20
	Aug 24 11:38	Aug 31 04:09	Sep 7 13:38	Sep 15 18:05
	Sep 22 20:23	Sep 29 11:33	Oct 7 05:35 p	Oct 15 09:18
	Oct 22 05:24 T	Oct 28 22:14	Nov 5 23:39	Nov 13 22:39
	Nov 20 15:07	Nov 27 13:02	Dec 5 18:18	Dec 13 10:03
	Dec 20 01:52	Dec 27 07:51		
2322 00h13m			Jan 4 12:00	Jan 11 19:40
	Jan 18 13:54	Jan 26 05:18	Feb 3 03:47	Feb 10 03:53
	Feb 17 03:35	Feb 25 03:04	Mar 4 17:17	Mar 11 11:28
	Mar 18 18:55 P	Mar 26 22:51	Apr 3 04:28 t	Apr 9 19:24
	Apr 17 11:20 P	Apr 25 15:19	May 2 13:33	May 9 04:40
	May 17 03:48	May 25 04:07	May 31 21:05	Jun 7 16:02
	Jun 15 19:22	Jun 23 13:33	Jun 30 04:01	Jul 7 05:49
	Jul 15 09:34	Jul 22 20:22	Jul 29 11:33	Aug 5 21:50
	Aug 13 22:23	Aug 21 01:35	Aug 27 20:52	Sep 4 15:29
	Sep 12 10:03 P	Sep 19 06:33	Sep 26 08:55 t	Oct 4 09:58
	Oct 11 20:52 P	Oct 18 12:49	Oct 26 00:00	Nov 3 04:17
	Nov 10 07:08	Nov 16 21:50	Nov 24 17:38	Dec 2 21:20
	Dec 9 17:15	Dec 16 10:33	Dec 24 12:44	
2323 00h13m				Jan 1 11:59
	Jan 8 03:39	Jan 15 03:01	Jan 23 07:51	Jan 30 23:36
	Feb 6 14:44	Feb 13 22:16	Feb 22 01:34	Mar 1 08:21
	Mar 8 02:47 A	Mar 15 18:41	Mar 23 16:41 p	Mar 30 15:10
	Apr 6 15:46	Apr 14 14:37	Apr 22 04:39	Apr 28 21:20
	May 6 05:33	May 14 08:38	May 21 13:49	May 28 04:09
	Jun 4 19:58	Jun 12 23:48	Jun 19 21:07	Jun 26 12:38
	Jul 4 10:54	Jul 12 11:44	Jul 19 03:45	Jul 25 23:31
	Aug 3 02:05	Aug 10 20:45	Aug 17 10:55	Aug 24 13:12
	Sep 1 17:04 A	Sep 9 03:41	Sep 15 19:36 p	Sep 23 05:52
	Oct 1 07:15	Oct 8 09:44	Oct 15 06:30	Oct 23 01:06
	Oct 30 20:14	Nov 6 16:15	Nov 13 20:03	Nov 21 21:42
	Nov 29 08:07	Dec 6 00:25	Dec 13 12:24	Dec 21 17:44
	Dec 28 19:16			
2324 00h13m		Jan 4 11:03	Jan 12 07:05	Jan 20 11:15
	Jan 27 06:06	Feb 3 00:28	Feb 11 02:47 n	Feb 19 01:08
	Feb 25 16:46 T	Mar 3 16:28	Mar 11 21:35 n	Mar 19 11:21
	Mar 26 03:15	Apr 2 10:27	Apr 10 13:44	Apr 17 18:45

Apr 24	13:43	May 2	05:20	May 10	02:36	May 17	00:27
May 24	00:43	May 31	23:47	Jun 8	12:36	Jun 15	05:42
Jun 22	12:55	Jun 30	16:32	Jul 7	20:46	Jul 14	11:44
Jul 22	02:48	Jul 30	06:53	Aug 6	04:08 n	Aug 12	19:46
Aug 20	18:16 A	Aug 28	18:47	Sep 4	11:36 n	Sep 11	06:55
Sep 19	10:35	Sep 27	04:41	Oct 3	19:55	Oct 10	21:57
Oct 19	02:45	Oct 26	13:12	Nov 2	05:47	Nov 9	16:48
Nov 17	18:03	Nov 24	21:01	Dec 1	17:57	Dec 9	14:10
Dec 17	08:12	Dec 24	04:53	Dec 31	08:54		

2325  
00h13m

						Jan 8	11:49
Jan 15	21:08	Jan 22	13:38	Jan 30	02:24 p	Feb 7	07:34
Feb 14	08:47 T	Feb 21	00:03	Feb 28	21:15	Mar 8	23:57
Mar 15	19:00	Mar 22	12:43	Mar 30	15:41	Apr 7	12:28
Apr 14	04:01	Apr 21	03:39	Apr 29	08:13	May 6	21:23
May 13	12:29	May 20	20:17	May 28	22:17	Jun 5	03:30
Jun 11	21:24	Jun 19	13:43	Jun 27	09:59	Jul 4	08:03
Jul 11	07:46	Jul 19	06:59	Jul 26	19:50 t	Aug 2	12:34
Aug 9	20:13 A	Aug 17	23:27	Aug 25	04:26	Aug 31	18:39
Sep 8	10:53	Sep 16	14:38	Sep 23	12:31	Sep 30	03:46
Oct 8	03:22	Oct 16	04:10	Oct 22	20:54	Oct 29	16:54
Nov 6	20:54	Nov 14	15:47	Nov 21	06:29	Nov 28	10:09
Dec 6	14:34	Dec 14	01:29	Dec 20	17:56	Dec 28	06:33

Year	New Moon	First Quarter	Full Moon	Last Quarter
Delta T				

2326  
00h13m

Jan 5	07:19 P	Jan 12	09:43	Jan 19	07:34 t	Jan 27	04:21
Feb 3	22:09 P	Feb 10	17:28	Feb 17	23:03	Feb 26	01:29
Mar 5	10:30	Mar 12	01:48	Mar 19	15:40	Mar 27	20:04
Apr 3	20:26	Apr 10	11:32	Apr 18	08:32	Apr 26	10:55
May 3	04:40	May 9	23:05	May 18	00:56	May 25	21:42
Jun 1	12:10	Jun 8	12:32	Jun 16	16:10	Jun 24	05:03
Jun 30	19:55 P	Jul 8	03:46	Jul 16	05:46 t	Jul 23	10:13
Jul 30	04:48	Aug 6	20:34	Aug 14	17:31	Aug 21	14:45
Aug 28	15:31	Sep 5	14:26	Sep 13	03:41	Sep 19	20:13
Sep 27	04:39	Oct 5	08:27	Oct 12	13:00	Oct 19	03:58
Oct 26	20:31	Nov 4	01:25	Nov 10	22:23	Nov 17	14:59
Nov 25	14:47	Dec 3	16:14	Dec 10	08:32	Dec 17	05:42
Dec 25	10:13 A						

2327  
00h13m

		Jan 2	04:24	Jan 8	19:43 p	Jan 15	23:54
Jan 24	04:56	Jan 31	14:07	Feb 7	07:50	Feb 14	20:31
Feb 22	21:13	Mar 1	22:07	Mar 8	20:48	Mar 16	17:45
Mar 24	10:24	Mar 31	05:17	Apr 7	10:39	Apr 15	13:27
Apr 22	20:48	Apr 29	12:32	May 7	01:29	May 15	06:02
May 22	05:16	May 28	20:45	Jun 5	17:05	Jun 13	18:55
Jun 20	12:39 T	Jun 27	06:47	Jul 5	08:45 n	Jul 13	04:31
Jul 19	19:45	Jul 26	19:21	Aug 3	23:38	Aug 11	11:47
Aug 18	03:25	Aug 25	10:51	Sep 2	13:13	Sep 9	17:48
Sep 16	12:36	Sep 24	04:59	Oct 2	01:33	Oct 8	23:42
Oct 16	00:20	Oct 24	00:39	Oct 31	13:05	Nov 7	06:37
Nov 14	15:20	Nov 22	20:13	Nov 30	00:18 n	Dec 6	15:41
Dec 14	09:25 A	Dec 22	14:08	Dec 29	11:22 n		

2328  
00h13m

						Jan 5	03:45
Jan 13	05:10	Jan 21	05:22	Jan 27	22:12	Feb 3	19:14

Feb 12	00:33	Feb 19	17:27	Feb 26	08:48	Mar 4	13:34
Mar 12	17:52	Mar 20	02:30	Mar 26	19:33	Apr 3	09:17
Apr 11	08:22	Apr 18	09:12	Apr 25	07:02	May 3	04:35
May 10	20:05	May 17	14:40	May 24	19:43 p	Jun 1	22:07
Jun 9	05:26 T	Jun 15	20:20	Jun 23	09:41	Jul 1	13:14
Jul 8	13:05	Jul 15	03:36	Jul 23	00:35	Jul 31	01:50
Aug 6	19:55	Aug 13	13:41	Aug 21	15:55	Aug 29	12:06
Sep 5	03:01	Sep 12	03:15	Sep 20	07:16	Sep 27	20:27
Oct 4	11:32	Oct 11	20:19	Oct 19	22:18	Oct 27	03:36
Nov 2	22:30	Nov 10	16:07	Nov 18	12:38 p	Nov 25	10:33
Dec 2	12:30 A	Dec 10	13:13	Dec 18	01:54	Dec 24	18:31

2329	Jan 1	05:14	Jan 9	09:48	Jan 16	13:48	Jan 23	04:34
00h13m	Jan 30	23:44	Feb 8	04:02	Feb 15	00:24	Feb 21	17:14
	Mar 1	18:38	Mar 9	18:35	Mar 16	10:07	Mar 23	08:19
	Mar 31	12:35	Apr 8	05:03	Apr 14	19:30	Apr 22	01:06
	Apr 30	04:30 P	May 7	12:07	May 14	05:10 t	May 21	18:42
	May 29	17:41 P	Jun 5	17:08	Jun 12	15:37	Jun 20	12:21
	Jun 28	04:09	Jul 4	21:41	Jul 12	03:19	Jul 20	05:15
	Jul 27	12:32	Aug 3	03:17	Aug 10	16:39	Aug 18	20:43
	Aug 25	19:56	Sep 1	11:13	Sep 9	07:49	Sep 17	10:09
	Sep 24	03:32	Sep 30	22:26	Oct 9	00:36	Oct 16	21:25
	Oct 23	12:21 P	Oct 30	13:26	Nov 7	18:05 t	Nov 15	06:49
	Nov 21	22:59 P	Nov 29	08:08	Dec 7	10:56	Dec 14	15:06
	Dec 21	11:39	Dec 29	05:32				

2330					Jan 6	02:03	Jan 12	23:08
00h13m	Jan 20	02:17	Jan 28	03:37	Feb 4	15:03	Feb 11	07:47
	Feb 18	18:42	Feb 26	23:53	Mar 6	02:08	Mar 12	17:37
	Mar 20	12:20	Mar 28	16:29	Apr 4	11:47	Apr 11	05:01
	Apr 19	06:07 A	Apr 27	04:49	May 3	20:24 p	May 10	18:15
	May 18	22:39	May 26	13:27	Jun 2	04:32	Jun 9	09:22
	Jun 17	12:56	Jun 24	19:32	Jul 1	12:54	Jul 9	02:05
	Jul 17	00:46	Jul 24	00:20	Jul 30	22:26	Aug 7	19:42
	Aug 15	10:46	Aug 22	05:12	Aug 29	10:12	Sep 6	13:11
	Sep 13	19:51	Sep 20	11:28	Sep 28	00:49	Oct 6	05:33
	Oct 13	04:52 T	Oct 19	20:24	Oct 27	18:08 p	Nov 4	20:13
	Nov 11	14:23	Nov 18	09:06	Nov 26	12:53	Dec 4	08:53
	Dec 11	00:42	Dec 18	01:59	Dec 26	07:24		

Year	New Moon	First Quarter	Full Moon	Last Quarter				
Delta T								
2331				Jan 2	19:33			
00h13m	Jan 9	12:03	Jan 16	22:18	Jan 25	00:21	Feb 1	04:26
	Feb 8	00:46	Feb 15	20:07	Feb 23	15:01	Mar 2	12:08
	Mar 9	15:03	Mar 17	17:00	Mar 25	03:16 n	Mar 31	19:32
	Apr 8	06:45 A	Apr 16	11:08	Apr 23	13:14 n	Apr 30	03:43
	May 7	23:04	May 16	01:44	May 22	21:19	May 29	13:39
	Jun 6	15:01	Jun 14	12:50	Jun 21	04:18	Jun 28	01:57
	Jul 6	05:54	Jul 13	20:58	Jul 20	11:19	Jul 27	16:45
	Aug 4	19:30	Aug 12	02:58	Aug 18	19:34	Aug 26	09:41
	Sep 3	07:56	Sep 10	08:02	Sep 17	06:11 n	Sep 25	04:02
	Oct 2	19:24 H	Oct 9	13:35	Oct 16	19:51 n	Oct 24	22:51
	Nov 1	06:10	Nov 7	21:08	Nov 15	12:25	Nov 23	17:00
	Nov 30	16:31	Dec 7	07:56	Dec 15	07:03	Dec 23	09:14
	Dec 30	02:48						



2332		Jan 5	22:31	Jan 14	02:24	Jan 21	22:34	
00h13m								
	Jan 28	13:28	Feb 4	16:23	Feb 12	21:01	Feb 20	08:42
	Feb 27	00:52	Mar 5	12:12	Mar 13	13:29 p	Mar 20	16:15
	Mar 27	13:08 A	Apr 4	08:20	Apr 12	02:58	Apr 18	22:24
	Apr 26	02:14	May 4	03:17	May 11	13:22	May 18	04:32
	May 25	16:05	Jun 2	19:56	Jun 9	21:23	Jun 16	11:50
	Jun 24	06:37	Jul 2	09:35	Jul 9	04:11	Jul 15	21:14
	Jul 23	21:41	Jul 31	20:11	Aug 7	10:58	Aug 14	09:22
	Aug 22	12:58	Aug 30	04:16	Sep 5	18:50 p	Sep 13	00:32
	Sep 21	03:52 A	Sep 28	10:50	Oct 5	04:38	Oct 12	18:41
	Oct 20	17:47	Oct 27	17:09	Nov 3	16:55	Nov 11	15:01
	Nov 19	06:27	Nov 26	00:29	Dec 3	07:56	Dec 11	11:50
	Dec 18	18:06	Dec 25	09:49				

2333				Jan 2	01:33	Jan 10	07:01	
00h13m								
	Jan 17	05:08	Jan 23	21:43	Jan 31	20:54	Feb 8	22:53
	Feb 15	15:49 P	Feb 22	12:14	Mar 2	16:18 t	Mar 10	10:52
	Mar 17	02:13 P	Mar 24	05:01	Apr 1	09:50	Apr 8	19:30
	Apr 15	12:24	Apr 22	23:17	May 1	00:16	May 8	01:47
	May 14	22:47	May 22	17:55	May 30	11:33	Jun 6	06:59
	Jun 13	10:04	Jun 21	11:35	Jun 28	20:30	Jul 5	12:20
	Jul 12	22:55	Jul 21	03:17	Jul 28	04:12	Aug 3	19:06
	Aug 11	13:37 P	Aug 19	16:37	Aug 26	11:37 t	Sep 2	04:30
	Sep 10	05:45 P	Sep 18	03:45	Sep 24	19:33	Oct 1	17:32
	Oct 9	22:21	Oct 17	13:11	Oct 24	04:42	Oct 31	10:37
	Nov 8	14:26	Nov 15	21:31	Nov 22	15:44	Nov 30	07:04
	Dec 8	05:26	Dec 15	05:25	Dec 22	05:16	Dec 30	05:00

2334	Jan 6	19:09	Jan 13	13:37	Jan 20	21:30	Jan 29	02:01
00h13m								
	Feb 5	07:30 T	Feb 11	22:58	Feb 19	15:43 p	Feb 27	20:13
	Mar 6	18:20	Mar 13	10:12	Mar 21	10:23	Mar 29	10:39
	Apr 5	03:44	Apr 11	23:41	Apr 20	03:49	Apr 27	21:16
	May 4	12:10	May 11	15:13	May 19	19:02	May 27	04:37
	Jun 2	20:31	Jun 10	08:08	Jun 18	07:52	Jun 25	09:46
	Jul 2	05:52	Jul 10	01:30	Jul 17	18:39	Jul 24	14:05
	Jul 31	17:07 A	Aug 8	18:31	Aug 16	03:56 p	Aug 22	19:10
	Aug 30	06:42	Sep 7	10:38	Sep 14	12:22	Sep 21	02:37
	Sep 28	22:27	Oct 7	01:23	Oct 13	20:41	Oct 20	13:41
	Oct 28	15:45	Nov 5	14:20	Nov 12	05:44	Nov 19	04:57
	Nov 27	09:43	Dec 5	01:14	Dec 11	16:16	Dec 18	23:58
	Dec 27	03:16						

2335		Jan 3	10:16	Jan 10	04:47 n	Jan 17	21:17	
00h13m								
	Jan 25	19:16 A	Feb 1	18:08	Feb 8	19:16 n	Feb 16	18:57
	Feb 24	08:53	Mar 3	01:54	Mar 10	11:11	Mar 18	14:56
	Mar 25	19:53	Apr 1	10:35	Apr 9	03:46	Apr 17	07:42
	Apr 24	04:43	Apr 30	20:52	May 8	20:16	May 16	20:28
	May 23	12:18	May 30	09:03	Jun 7	12:02	Jun 15	05:28
	Jun 21	19:40	Jun 28	23:10	Jul 7	02:31 n	Jul 14	11:38
	Jul 21	03:47 T	Jul 28	15:06	Aug 5	15:19	Aug 12	16:23
	Aug 19	13:28	Aug 27	08:35	Sep 4	02:26	Sep 10	21:17
	Sep 18	01:22	Sep 26	02:54	Oct 3	12:19	Oct 10	03:49
	Oct 17	15:56	Oct 25	20:52	Nov 1	21:48	Nov 8	13:10
	Nov 16	09:14	Nov 24	13:12	Dec 1	07:40	Dec 8	02:01
	Dec 16	04:26	Dec 24	02:58	Dec 30	18:24 p		

Year Delta T	New Moon	First Quarter	Full Moon	Last Quarter
2336 00h13m				Jan 6 18:28
	Jan 14 23:51 A	Jan 22 13:59	Jan 29 06:01	Feb 5 13:55
	Feb 13 17:33	Feb 20 22:44	Feb 27 18:23	Mar 6 10:55
	Mar 14 08:15	Mar 21 06:05	Mar 28 07:30	Apr 5 07:27
	Apr 12 19:52	Apr 19 12:58	Apr 26 21:33	May 5 01:37
	May 12 05:06	May 18 20:19	May 26 12:34	Jun 3 16:22
	Jun 10 12:49	Jun 17 05:04	Jun 25 04:10 t	Jul 3 03:37
	Jul 9 19:55 T	Jul 16 16:05	Jul 24 19:34	Aug 1 12:06
	Aug 8 03:11	Aug 15 06:00	Aug 23 10:00	Aug 30 18:48
	Sep 6 11:31	Sep 13 22:56	Sep 21 23:11	Sep 29 00:49
	Oct 5 21:55	Oct 13 18:12	Oct 21 11:20	Oct 28 07:14
	Nov 4 11:19	Nov 12 14:17	Nov 19 22:56	Nov 26 15:11
	Dec 4 04:02	Dec 12 09:28	Dec 19 10:15 t	Dec 26 01:38
2337 00h14m	Jan 2 23:13 P	Jan 11 02:20	Jan 17 21:15	Jan 24 15:17
	Feb 1 19:01	Feb 9 16:07	Feb 16 07:51	Feb 23 08:04
	Mar 3 13:28	Mar 11 02:37	Mar 17 18:16	Mar 25 03:01
	Apr 2 05:19	Apr 9 10:17	Apr 16 05:02	Apr 23 22:28
	May 1 18:19	May 8 16:04	May 15 16:48	May 23 16:52
	May 31 04:43 T	Jun 6 21:16	Jun 14 05:54 t	Jun 22 09:14
	Jun 29 13:07	Jul 6 03:23	Jul 13 20:16	Jul 21 23:13
	Jul 28 20:17	Aug 4 11:47	Aug 12 11:28	Aug 20 10:51
	Aug 27 03:11	Sep 2 23:29	Sep 11 03:01	Sep 18 20:23
	Sep 25 10:57	Oct 2 14:53	Oct 10 18:31	Oct 18 04:19
	Oct 24 20:42	Nov 1 09:34	Nov 9 09:33	Nov 16 11:26
	Nov 23 09:15 A	Dec 1 06:23	Dec 8 23:39 p	Dec 15 18:50
	Dec 23 00:42	Dec 31 03:38		
2338 00h14m			Jan 7 12:24	Jan 14 03:41
	Jan 21 18:24	Jan 29 23:22	Feb 5 23:38	Feb 12 14:51
	Feb 20 13:08	Feb 28 15:54	Mar 7 09:37	Mar 14 04:30
	Mar 22 07:33	Mar 30 04:23	Apr 5 18:54	Apr 12 20:12
	Apr 21 00:28	Apr 28 12:58	May 5 04:07 n	May 12 13:11
	May 20 15:00 A	May 27 18:45	Jun 3 13:53 n	Jun 11 06:42
	Jun 19 02:47	Jun 25 23:16	Jul 3 00:43	Jul 11 00:02
	Jul 18 12:09	Jul 25 04:05	Aug 1 13:05	Aug 9 16:27
	Aug 16 20:02	Aug 23 10:39	Aug 31 03:21	Sep 8 07:14
	Sep 15 03:32	Sep 21 20:07	Sep 29 19:33	Oct 7 19:55
	Oct 14 11:49	Oct 21 09:13	Oct 29 13:04 n	Nov 6 06:31
	Nov 12 21:38 T	Nov 20 02:10	Nov 28 06:39 n	Dec 5 15:29
	Dec 12 09:21	Dec 19 22:28	Dec 27 22:57	
2339 00h14m				Jan 3 23:39
	Jan 10 22:58	Jan 18 20:32	Jan 26 13:07	Feb 2 07:52
	Feb 9 14:23	Feb 17 18:00	Feb 25 01:05	Mar 3 16:51
	Mar 11 07:17	Mar 19 12:33	Mar 26 11:17	Apr 2 03:08
	Apr 10 00:54	Apr 18 02:58	Apr 24 20:11 p	May 1 15:05
	May 9 18:02 A	May 17 13:20	May 24 04:19	May 31 04:56
	Jun 8 09:27	Jun 15 20:33	Jun 22 12:18	Jun 29 20:42
	Jul 7 22:32	Jul 15 01:52	Jul 21 21:01	Jul 29 13:56
	Aug 6 09:29	Aug 13 06:35	Aug 20 07:29	Aug 28 07:44
	Sep 4 19:06	Sep 11 12:02	Sep 18 20:40	Sep 27 01:03
	Oct 4 04:17	Oct 10 19:32	Oct 18 12:50 p	Oct 26 16:58
	Nov 2 13:43 T	Nov 9 06:16	Nov 17 07:15	Nov 25 06:59
	Dec 1 23:46	Dec 8 21:04	Dec 17 02:16	Dec 24 18:53
	Dec 31 10:37			

2340		Jan 7	15:47	Jan 15	20:15	Jan 23	04:43	
00h14m								
	Jan 29	22:31	Feb 6	13:03	Feb 14	12:09	Feb 21	12:52
	Feb 28	11:49	Mar 7	10:32	Mar 15	01:34	Mar 21	20:07
	Mar 29	02:35 P	Apr 6	06:05	Apr 13	12:32 t	Apr 20	03:31
	Apr 27	18:25 P	May 5	22:25	May 12	21:21	May 19	12:10
	May 27	10:27	Jun 4	11:16	Jun 11	04:40	Jun 17	22:56
	Jun 26	01:51	Jul 3	20:53	Jul 10	11:26	Jul 17	12:18
	Jul 25	16:10	Aug 2	03:58	Aug 8	18:53	Aug 16	04:10
	Aug 24	05:20	Aug 31	09:30	Sep 7	04:13	Sep 14	22:01
	Sep 22	17:31 P	Sep 29	14:46	Oct 6	16:23 t	Oct 14	16:58
	Oct 22	04:53 P	Oct 28	21:15	Nov 5	07:39	Nov 13	11:54
	Nov 20	15:37	Nov 27	06:21	Dec 5	01:29	Dec 13	05:32
	Dec 20	02:02	Dec 26	19:00				

Year            New Moon            First Quarter            Full Moon            Last Quarter  
Delta T

2341				Jan 3	20:44	Jan 11	20:37	
00h14m								
	Jan 18	12:29	Jan 25	11:12	Feb 2	15:55	Feb 10	08:25
	Feb 16	23:22	Feb 24	06:01	Mar 4	09:34	Mar 11	17:06
	Mar 18	10:59 H	Mar 26	01:56	Apr 3	00:33 p	Apr 9	23:38
	Apr 16	23:23	Apr 24	21:26	May 2	12:21	May 9	05:25
	May 16	12:35	May 24	15:15	May 31	21:22	Jun 7	11:46
	Jun 15	02:34	Jun 23	06:29	Jun 30	04:35	Jul 6	19:49
	Jul 14	17:18	Jul 22	18:45	Jul 29	11:14	Aug 5	06:22
	Aug 13	08:36	Aug 21	04:13	Aug 27	18:30	Sep 3	19:56
	Sep 11	23:59 A	Sep 19	11:39	Sep 26	03:20 p	Oct 3	12:42
	Oct 11	14:44	Oct 18	18:10	Oct 25	14:25	Nov 2	08:16
	Nov 10	04:19	Nov 17	01:01	Nov 24	04:08	Dec 2	05:19
	Dec 9	16:40	Dec 16	09:18	Dec 23	20:31		

2342						Jan 1	01:47	
00h14m								
	Jan 8	04:05	Jan 14	19:49	Jan 22	15:07	Jan 30	19:34
	Feb 6	14:54	Feb 13	08:50	Feb 21	10:38 n	Mar 1	09:32
	Mar 8	01:19 T	Mar 15	00:16	Mar 23	05:11 n	Mar 30	19:42
	Apr 6	11:21	Apr 13	17:35	Apr 21	21:09	Apr 29	02:56
	May 5	21:19	May 13	11:55	May 21	09:53	May 28	08:25
	Jun 4	07:49	Jun 12	06:04	Jun 19	19:52	Jun 26	13:24
	Jul 3	19:37	Jul 11	22:53	Jul 19	04:07	Jul 25	19:12
	Aug 2	09:19	Aug 10	13:37	Aug 17	11:40 n	Aug 24	03:04
	Sep 1	00:53 A	Sep 9	02:06	Sep 15	19:23 n	Sep 22	14:09
	Sep 30	17:34	Oct 8	12:38	Oct 15	03:59	Oct 22	05:15
	Oct 30	10:17	Nov 6	21:44	Nov 13	14:06	Nov 21	00:16
	Nov 29	02:09	Dec 6	05:58	Dec 13	02:23	Dec 20	21:51
	Dec 28	16:43						

2343			Jan 4	13:58	Jan 11	17:14	Jan 19	19:41
00h14m								
	Jan 27	05:51	Feb 2	22:34	Feb 10	10:28 p	Feb 18	15:30
	Feb 25	17:25 T	Mar 4	08:33	Mar 12	04:55	Mar 20	07:52
	Mar 27	03:22	Apr 2	20:34	Apr 10	22:57	Apr 18	20:20
	Apr 25	12:00	May 2	10:47	May 10	15:12	May 18	05:11
	May 24	20:04	Jun 1	02:49	Jun 9	05:10	Jun 16	11:16
	Jun 23	04:36	Jun 30	19:54	Jul 8	16:58	Jul 15	15:48
	Jul 22	14:41	Jul 30	13:12	Aug 7	03:03 p	Aug 13	20:18
	Aug 21	03:02 A	Aug 29	06:01	Sep 5	12:00	Sep 12	02:23
	Sep 19	17:48	Sep 27	21:48	Oct 4	20:29	Oct 11	11:32

Oct 19	10:35	Oct 27	12:04	Nov 3	05:15	Nov 10	00:43
Nov 18	04:33	Nov 26	00:19	Dec 2	15:05	Dec 9	18:00
Dec 17	22:40	Dec 25	10:26				

2344  
00h14m

				Jan 1	02:37	Jan 8	14:22
Jan 16	15:43 P	Jan 23	18:50	Jan 30	16:03 t	Feb 7	12:03
Feb 15	06:39 P	Feb 22	02:25	Feb 29	07:08	Mar 8	09:01
Mar 15	18:52	Mar 22	10:19	Mar 29	23:12	Apr 7	03:27
Apr 14	04:34	Apr 20	19:27	Apr 28	15:33	May 6	18:14
May 13	12:29	May 20	06:20	May 28	07:35	Jun 5	05:04
Jun 11	19:42	Jun 18	19:12	Jun 26	22:44	Jul 4	12:35
Jul 11	03:14 P	Jul 18	10:05	Jul 26	12:30 t	Aug 2	17:57
Aug 9	12:00 P	Aug 17	02:50	Aug 25	00:38	Aug 31	22:42
Sep 7	22:44	Sep 15	21:00	Sep 23	11:18	Sep 30	04:21
Oct 7	11:59	Oct 15	15:36	Oct 22	21:07	Oct 29	12:14
Nov 6	04:04	Nov 14	09:14	Nov 21	06:56	Nov 27	23:19
Dec 5	22:36	Dec 14	00:40	Dec 20	17:19	Dec 27	13:57

2345  
00h14m

Jan 4	18:16 A	Jan 12	13:13	Jan 19	04:30 p	Jan 26	07:53
Feb 3	13:06	Feb 10	23:03	Feb 17	16:23	Feb 25	04:08
Mar 5	05:21	Mar 12	06:54	Mar 19	04:52	Mar 27	00:57
Apr 3	18:24	Apr 10	13:43	Apr 17	18:07	Apr 25	20:21
May 3	04:37	May 9	20:29	May 17	08:23	May 25	12:50
Jun 1	12:53	Jun 8	04:10	Jun 15	23:35	Jun 24	01:51
Jun 30	20:08 T	Jul 7	13:43	Jul 15	15:09 n	Jul 23	11:46
Jul 30	03:12	Aug 6	01:58	Aug 14	06:15	Aug 21	19:26
Aug 28	10:55	Sep 4	17:24	Sep 12	20:17	Sep 20	01:53
Sep 26	20:14	Oct 4	11:45	Oct 12	09:12	Oct 19	08:09
Oct 26	08:07	Nov 3	07:52	Nov 10	21:18	Nov 17	15:19
Nov 24	23:16	Dec 3	03:59	Dec 10	08:57 n	Dec 17	00:25
Dec 24	17:26 A						

Year  
Delta T

New Moon      First Quarter      Full Moon      Last Quarter

2346  
00h14m

		Jan 1	22:22	Jan 8	20:13 n	Jan 15	12:19
Jan 23	13:10	Jan 31	13:53	Feb 7	06:59	Feb 14	03:24
Feb 22	08:27	Mar 2	02:03	Mar 8	17:18	Mar 15	21:09
Mar 24	01:36	Mar 31	10:59	Apr 7	03:33	Apr 14	16:16
Apr 22	15:56	Apr 29	17:27	May 6	14:28	May 14	11:09
May 22	03:30	May 28	22:36	Jun 5	02:37 p	Jun 13	04:32
Jun 20	12:49 T	Jun 27	03:55	Jul 4	16:13	Jul 12	19:48
Jul 19	20:31	Jul 26	10:52	Aug 3	07:01	Aug 11	08:48
Aug 18	03:29	Aug 24	20:43	Sep 1	22:34	Sep 9	19:38
Sep 16	10:47	Sep 23	10:15	Oct 1	14:22	Oct 9	04:36
Oct 15	19:32	Oct 23	03:28	Oct 31	05:59	Nov 7	12:15
Nov 14	06:43	Nov 21	23:32	Nov 29	20:53 p	Dec 6	19:31
Dec 13	20:47 A	Dec 21	20:57	Dec 29	10:32		

2347  
00h14m

						Jan 5	03:31
Jan 12	13:27	Jan 20	17:48	Jan 27	22:35	Feb 3	13:21
Feb 11	07:42	Feb 19	12:09	Feb 26	09:04	Mar 5	01:31
Mar 13	02:16	Mar 21	02:42	Mar 27	18:28	Apr 3	15:56
Apr 11	19:54	Apr 19	13:07	Apr 26	03:25	May 3	08:02
May 11	11:36 P	May 18	20:05	May 25	12:36 t	Jun 2	01:07
Jun 10	00:44 P	Jun 17	00:58	Jun 23	22:39	Jul 1	18:31
Jul 9	11:17	Jul 16	05:23	Jul 23	10:04	Jul 31	11:34

Aug 7	19:54	Aug 14	10:53	Aug 21	23:20	Aug 30	03:29
Sep 6	03:36	Sep 12	18:45	Sep 20	14:40	Sep 28	17:35
Oct 5	11:32	Oct 12	05:59	Oct 20	07:50	Oct 28	05:32
Nov 3	20:40 P	Nov 10	21:03	Nov 19	01:50 t	Nov 26	15:31
Dec 3	07:32 P	Dec 10	15:51	Dec 18	19:09	Dec 26	00:09

2348	Jan 1	20:13	Jan 9	13:19	Jan 17	10:35	Jan 24	08:15
00h14m	Jan 31	10:39	Feb 8	11:22	Feb 15	23:38	Feb 22	16:39
	Mar 1	02:39	Mar 9	07:34	Mar 16	10:34	Mar 23	01:59
	Mar 30	19:46	Apr 8	00:04	Apr 14	19:55	Apr 21	12:43
	Apr 29	13:05 A	May 7	12:22	May 14	04:11 p	May 21	01:15
	May 29	05:22	Jun 5	21:03	Jun 12	12:00	Jun 19	15:49
	Jun 27	19:38	Jul 5	03:12	Jul 11	20:06	Jul 19	08:16
	Jul 27	07:42	Aug 3	08:07	Aug 10	05:30	Aug 18	01:58
	Aug 25	18:03	Sep 1	13:06	Sep 8	17:15	Sep 16	19:53
	Sep 24	03:35	Sep 30	19:28	Oct 8	08:01	Oct 16	12:55
	Oct 23	13:03 T	Oct 30	04:29	Nov 7	01:37 p	Nov 15	04:16
	Nov 21	22:57	Nov 28	17:13	Dec 6	20:44	Dec 14	17:31
	Dec 21	09:28	Dec 28	10:01				

2349					Jan 5	15:33	Jan 13	04:31
00h14m	Jan 19	20:47	Jan 27	06:09	Feb 4	08:39	Feb 11	13:27
	Feb 18	09:11	Feb 26	03:40	Mar 5	23:18	Mar 12	20:55
	Mar 19	22:58	Mar 28	00:15	Apr 4	11:23 n	Apr 11	03:53
	Apr 18	14:03 A	Apr 26	18:12	May 3	21:06 n	May 10	11:29
	May 18	05:51	May 26	08:46	Jun 2	04:57	Jun 8	20:49
	Jun 16	21:31	Jun 24	20:01	Jul 1	11:47	Jul 8	08:37
	Jul 16	12:24	Jul 24	04:25	Jul 30	18:42	Aug 6	23:10
	Aug 15	02:16	Aug 22	10:45	Aug 29	02:57	Sep 5	16:08
	Sep 13	15:09	Sep 20	16:09	Sep 27	13:40 n	Oct 5	10:50
	Oct 13	03:12 H	Oct 19	21:58	Oct 27	03:29 n	Nov 4	06:13
	Nov 11	14:29	Nov 18	05:41	Nov 25	20:14	Dec 4	00:58
	Dec 11	01:12	Dec 17	16:30	Dec 25	15:01		

2350							Jan 2	17:41
00h14m	Jan 9	11:39	Jan 16	06:52	Jan 24	10:26	Feb 1	07:17
	Feb 7	22:13	Feb 15	00:20	Feb 23	05:00	Mar 2	17:27
	Mar 9	09:16	Mar 16	19:38	Mar 24	21:21 p	Apr 1	00:49
	Apr 7	21:00 A	Apr 15	15:17	Apr 23	10:40	Apr 30	06:38
	May 7	09:31	May 15	09:55	May 22	20:55	May 29	12:20
	Jun 5	22:51	Jun 14	02:30	Jun 21	04:52	Jun 27	19:12
	Jul 5	13:04	Jul 13	16:23	Jul 20	11:39	Jul 27	04:15
	Aug 4	04:07	Aug 12	03:24	Aug 18	18:30	Aug 25	16:11
	Sep 2	19:41	Sep 10	12:01	Sep 17	02:32 p	Sep 24	07:22
	Oct 2	11:06 A	Oct 9	19:06	Oct 16	12:33	Oct 24	01:45
	Nov 1	01:37	Nov 8	01:50	Nov 15	01:00	Nov 22	22:28
	Nov 30	14:50	Dec 7	09:23	Dec 14	16:06	Dec 22	19:42
	Dec 30	02:50						

Year	New Moon	First Quarter	Full Moon	Last Quarter
2351		Jan 5 18:42	Jan 13 09:39	Jan 21 15:11
00h14m	Jan 28 13:57	Feb 4 06:19	Feb 12 04:49	Feb 20 07:12
	Feb 27 00:29 P	Mar 5 20:18	Mar 13 23:58 t	Mar 21 19:12
	Mar 28 10:30 P	Apr 4 12:25	Apr 12 17:15	Apr 20 03:42
	Apr 26 20:13	May 4 06:03	May 12 07:31	May 19 09:49

May 26	06:06	Jun 3	00:15	Jun 10	18:46	Jun 17	14:47
Jun 24	16:56	Jul 2	17:50	Jul 10	03:47	Jul 16	19:55
Jul 24	05:31	Aug 1	09:47	Aug 8	11:39	Aug 15	02:31
Aug 22	20:12 P	Aug 30	23:39	Sep 6	19:19 t	Sep 13	11:49
Sep 21	12:35 P	Sep 29	11:26	Oct 6	03:33	Oct 13	00:51
Oct 21	05:40	Oct 28	21:30	Nov 4	12:58	Nov 11	18:04
Nov 19	22:19	Nov 27	06:20	Dec 4	00:11	Dec 11	14:42
Dec 19	13:48	Dec 26	14:29				

2352  
00h14m

				Jan 2	13:42	Jan 10	12:47
Jan 18	03:47	Jan 24	22:40	Feb 1	05:43	Feb 9	09:53
Feb 16	16:10 T	Feb 23	07:42	Mar 1	23:32 p	Mar 10	04:04
Mar 17	02:49	Mar 23	18:21	Mar 31	17:45	Apr 8	18:28
Apr 15	11:52	Apr 22	07:08	Apr 30	10:51	May 8	05:02
May 14	19:54	May 21	21:59	May 30	01:53	Jun 6	12:22
Jun 13	03:52	Jun 20	14:25	Jun 28	14:44	Jul 5	17:30
Jul 12	12:55	Jul 20	07:39	Jul 28	01:44	Aug 3	21:51
Aug 11	00:00 A	Aug 19	00:54	Aug 26	11:21 p	Sep 2	02:58
Sep 9	13:36	Sep 17	17:32	Sep 24	20:11	Oct 1	10:26
Oct 9	05:34	Oct 17	08:58	Oct 24	04:55	Oct 30	21:33
Nov 7	23:15	Nov 15	22:37	Nov 22	14:17	Nov 29	12:52
Dec 7	17:38	Dec 15	10:03	Dec 22	00:58	Dec 29	07:51

2353  
00h14m

Jan 6	11:32	Jan 13	19:20	Jan 20	13:25 n	Jan 28	05:04
Feb 5	03:42 A	Feb 12	03:10	Feb 19	03:33 n	Feb 27	02:31
Mar 6	17:17	Mar 13	10:37	Mar 20	18:57	Mar 28	22:18
Apr 5	04:04	Apr 11	18:46	Apr 19	10:58	Apr 27	14:57
May 4	12:37	May 11	04:25	May 19	03:00	May 27	03:44
Jun 2	19:55	Jun 9	15:58	Jun 17	18:34	Jun 25	12:52
Jul 2	03:04	Jul 9	05:37	Jul 17	09:07 n	Jul 24	19:15
Jul 31	11:03 T	Aug 7	21:23	Aug 15	22:14	Aug 23	00:15
Aug 29	20:43	Sep 6	15:01	Sep 14	09:50	Sep 21	05:23
Sep 28	08:42	Oct 6	09:47	Oct 13	20:14	Oct 20	12:06
Oct 27	23:27	Nov 5	04:24	Nov 12	06:12	Nov 18	21:33
Nov 26	16:59	Dec 4	21:23	Dec 11	16:24	Dec 18	10:22
Dec 26	12:24						

2354  
00h14m

		Jan 3	11:38	Jan 10	03:14 p	Jan 17	02:38
Jan 25	07:58 A	Feb 1	22:52	Feb 8	14:42	Feb 15	21:42
Feb 24	01:40	Mar 3	07:35	Mar 10	02:40	Mar 17	18:15
Mar 25	16:16	Apr 1	14:40	Apr 8	15:13	Apr 16	14:24
Apr 24	03:42	Apr 30	21:07	May 8	04:40	May 16	08:22
May 23	12:44	May 30	03:58	Jun 6	19:12	Jun 14	23:10
Jun 21	20:20	Jun 28	12:14	Jul 6	10:34 t	Jul 14	10:41
Jul 21	03:22 T	Jul 27	22:52	Aug 5	02:03	Aug 12	19:33
Aug 19	10:41	Aug 26	12:36	Sep 3	16:51	Sep 11	02:43
Sep 17	19:09	Sep 25	05:38	Oct 3	06:35	Oct 10	09:09
Oct 17	05:43	Oct 25	01:14	Nov 1	19:20	Nov 8	15:53
Nov 15	19:16	Nov 23	21:49	Dec 1	07:26	Dec 7	23:58
Dec 15	12:04	Dec 23	17:30	Dec 30	19:02 t		

2355  
00h14m

						Jan 6	10:20
Jan 14	07:15 P	Jan 22	10:43	Jan 29	06:05	Feb 4	23:40
Feb 13	02:56	Feb 21	00:38	Feb 27	16:29	Mar 6	15:55
Mar 14	21:13	Mar 22	11:07	Mar 29	02:29	Apr 5	10:14
Apr 13	12:53	Apr 20	18:36	Apr 27	12:43	May 5	05:09
May 13	01:44	May 20	00:06	May 26	23:55	Jun 3	23:16
Jun 11	12:04 T	Jun 18	05:00	Jun 25	12:35 t	Jul 3	15:39
Jul 10	20:30	Jul 17	10:49	Jul 25	02:44	Aug 2	05:57

Aug 9	03:47	Aug 15	18:58	Aug 23	18:01	Aug 31	18:07
Sep 7	10:54	Sep 14	06:34	Sep 22	09:56	Sep 30	04:17
Oct 6	18:55	Oct 13	22:01	Oct 22	01:58	Oct 29	12:47
Nov 5	04:54	Nov 12	16:55	Nov 20	17:35	Nov 27	20:18
Dec 4	17:34 A	Dec 12	14:01	Dec 20	08:09 p	Dec 27	03:53

Year Delta T	New Moon		First Quarter		Full Moon		Last Quarter	
2356 00h15m	Jan 3	09:00	Jan 11	11:31	Jan 18	21:08	Jan 25	12:38
	Feb 2	02:30	Feb 10	07:24	Feb 17	08:21	Feb 23	23:23
	Mar 2	20:53	Mar 10	23:58	Mar 17	18:05	Mar 24	12:25
	Apr 1	14:57	Apr 9	12:24	Apr 16	02:58	Apr 23	03:25
	May 1	07:35	May 8	20:54	May 15	11:44 n	May 22	19:47
	May 30	21:59 A	Jun 7	02:36	Jun 13	21:05 n	Jun 21	12:55
	Jun 29	09:49	Jul 6	07:01	Jul 13	07:36	Jul 21	06:14
	Jul 28	19:24	Aug 4	11:45	Aug 11	19:49	Aug 19	22:59
	Aug 27	03:33	Sep 2	18:16	Sep 10	10:09	Sep 18	14:22
	Sep 25	11:25	Oct 2	03:44	Oct 10	02:38	Oct 18	03:45
	Oct 24	20:03	Oct 31	16:52	Nov 8	20:37	Nov 16	15:00
	Nov 23	06:08 T	Nov 30	09:55	Dec 8	14:42 n	Dec 16	00:26
	Dec 22	17:58	Dec 30	06:15				
2357 00h15m					Jan 7	07:21	Jan 14	08:46
	Jan 21	07:28	Jan 29	04:18	Feb 5	21:40	Feb 12	16:52
	Feb 19	22:32	Feb 28	01:39	Mar 7	09:34	Mar 14	01:27
	Mar 21	14:55	Mar 29	20:06	Apr 5	19:31	Apr 12	11:07
	Apr 20	08:01	Apr 28	10:27	May 5	04:05 p	May 11	22:23
	May 20	00:47 A	May 27	20:50	Jun 3	11:53	Jun 10	11:36
	Jun 18	16:06	Jun 26	04:09	Jul 2	19:37	Jul 10	02:58
	Jul 18	05:18	Jul 25	09:35	Aug 1	04:09	Aug 8	20:08
	Aug 16	16:35	Aug 23	14:27	Aug 30	14:35	Sep 7	14:14
	Sep 15	02:39	Sep 21	20:03	Sep 29	03:51	Oct 7	08:07
	Oct 14	12:18	Oct 21	03:39	Oct 28	20:15 p	Nov 6	00:44
	Nov 12	22:10 T	Nov 19	14:27	Nov 27	14:58	Dec 5	15:23
	Dec 12	08:30	Dec 19	05:13	Dec 27	10:18		
2358 00h15m							Jan 4	03:43
	Jan 10	19:24	Jan 17	23:46	Jan 26	04:29	Feb 2	13:43
	Feb 9	07:06	Feb 16	20:43	Feb 24	20:24	Mar 3	21:45
	Mar 10	19:57	Mar 18	17:51	Mar 26	09:42	Apr 2	04:39
	Apr 9	10:08 P	Apr 17	13:08	Apr 24	20:27 t	May 1	11:32
	May 9	01:23 P	May 17	05:23	May 24	05:03	May 30	19:35
	Jun 7	17:01	Jun 15	18:18	Jun 22	12:11	Jun 29	05:50
	Jul 7	08:17	Jul 15	04:10	Jul 21	18:52	Jul 28	18:50
	Aug 5	22:46	Aug 13	11:36	Aug 20	02:18	Aug 27	10:37
	Sep 4	12:20	Sep 11	17:30	Sep 18	11:43	Sep 26	04:41
	Oct 4	01:04 P	Oct 10	23:06	Oct 18	00:01 t	Oct 26	00:06
	Nov 2	13:00 P	Nov 9	05:48	Nov 16	15:27	Nov 24	19:37
	Dec 2	00:12	Dec 8	14:59	Dec 16	09:26	Dec 24	13:47
	Dec 31	10:52						
2359 00h15m			Jan 7	03:30	Jan 15	04:45	Jan 23	05:12
	Jan 29	21:18	Feb 5	19:22	Feb 13	23:54	Feb 21	17:07
	Feb 28	07:56	Mar 7	13:40	Mar 15	17:26	Mar 23	01:42
	Mar 29	19:04 H	Apr 6	09:02	Apr 14	08:15 p	Apr 21	07:59
	Apr 28	06:54	May 6	04:07	May 13	19:54	May 20	13:24

May 27	19:33	Jun 4	21:45	Jun 12	04:50	Jun 18	19:20
Jun 26	09:07	Jul 4	13:06	Jul 11	12:02	Jul 18	03:01
Jul 25	23:43	Aug 3	01:44	Aug 9	18:45	Aug 16	13:19
Aug 24	15:10	Sep 1	11:43	Sep 8	02:10	Sep 15	02:49
Sep 23	06:59 A	Sep 30	19:43	Oct 7	11:13 p	Oct 14	19:43
Oct 22	22:19	Oct 30	02:43	Nov 5	22:30	Nov 13	15:35
Nov 21	12:30	Nov 28	09:53	Dec 5	12:20	Dec 13	13:01
Dec 21	01:17	Dec 27	18:16				

2360  
00h15m

				Jan 4	04:42	Jan 12	09:48
Jan 19	12:53	Jan 26	04:36	Feb 2	23:07	Feb 11	03:48
Feb 17	23:39	Feb 24	17:10	Mar 3	18:22 n	Mar 11	17:48
Mar 18	09:45 T	Mar 25	07:57	Apr 2	12:38 n	Apr 10	03:54
Apr 16	19:21	Apr 24	00:35	May 2	04:24	May 9	11:00
May 16	04:50	May 23	18:23	May 31	17:03	Jun 7	16:18
Jun 14	14:52	Jun 22	12:17	Jun 30	03:05	Jul 6	21:06
Jul 14	02:20	Jul 22	05:13	Jul 29	11:28	Aug 5	02:44
Aug 12	15:54	Aug 20	20:22	Aug 27	19:15 n	Sep 3	10:29
Sep 11	07:36 A	Sep 19	09:29	Sep 26	03:17 n	Oct 2	21:32
Oct 11	00:42	Oct 18	20:41	Oct 25	12:12	Nov 1	12:43
Nov 9	17:57	Nov 17	06:22	Nov 23	22:33	Dec 1	07:53
Dec 9	10:20	Dec 16	14:58	Dec 23	10:54	Dec 31	05:36

Year  
Delta T

New Moon                      First Quarter                      Full Moon                      Last Quarter

2361  
00h15m

Jan 8	01:16	Jan 14	23:05	Jan 22	01:36	Jan 30	03:30
Feb 6	14:31	Feb 13	07:28	Feb 20	18:28 p	Feb 28	23:18
Mar 8	01:58 T	Mar 14	16:59	Mar 22	12:27	Mar 30	15:37
Apr 6	11:37	Apr 13	04:20	Apr 21	06:03	Apr 29	04:01
May 5	19:53	May 12	17:50	May 20	22:03	May 28	12:52
Jun 4	03:34	Jun 11	09:17	Jun 19	11:57	Jun 26	18:59
Jul 3	11:47	Jul 11	02:04	Jul 18	23:54	Jul 25	23:34
Aug 1	21:39	Aug 9	19:26	Aug 17	10:18 p	Aug 24	04:07
Aug 31	09:57 A	Sep 8	12:39	Sep 15	19:40	Sep 22	10:16
Sep 30	00:52	Oct 8	05:05	Oct 15	04:35	Oct 21	19:28
Oct 29	17:57	Nov 6	20:03	Nov 13	13:43	Nov 20	08:42
Nov 28	12:19	Dec 6	08:55	Dec 12	23:47	Dec 20	01:58
Dec 28	06:48						

2362  
00h15m

		Jan 4	19:25	Jan 11	11:19	Jan 18	22:13
Jan 27	00:04 P	Feb 3	03:54	Feb 10	00:31 t	Feb 17	19:41
Feb 25	15:02 P	Mar 4	11:17	Mar 11	15:07	Mar 19	16:24
Mar 27	03:06	Apr 2	18:45	Apr 10	06:36	Apr 18	10:40
Apr 25	12:33	May 2	03:16	May 9	22:27	May 18	01:24
May 24	20:12	May 31	13:31	Jun 8	14:09	Jun 16	12:20
Jun 23	03:11	Jun 30	01:51	Jul 8	05:15	Jul 15	20:04
Jul 22	10:34 P	Jul 29	16:26	Aug 6	19:15 t	Aug 14	01:43
Aug 20	19:17 P	Aug 28	09:12	Sep 5	07:49	Sep 12	06:44
Sep 19	06:05	Sep 27	03:41	Oct 4	19:01	Oct 11	12:37
Oct 18	19:29	Oct 26	22:51	Nov 3	05:21	Nov 9	20:40
Nov 17	11:46	Nov 25	17:09	Dec 2	15:33	Dec 9	07:46
Dec 17	06:30	Dec 25	09:07				

2363  
00h15m

				Jan 1	02:09	Jan 7	22:15
Jan 16	02:19 A	Jan 23	21:59	Jan 30	13:17 p	Feb 6	15:52
Feb 14	21:11	Feb 22	07:54	Mar 1	00:51	Mar 8	11:38



Mar 16	13:22	Mar 23	15:35	Mar 30	12:49	Apr 7	08:00
Apr 15	02:15	Apr 21	22:03	Apr 29	01:28	May 7	03:06
May 14	12:17	May 21	04:21	May 28	15:11	Jun 5	19:31
Jun 12	20:25	Jun 19	11:33	Jun 27	06:02	Jul 5	08:44
Jul 12	03:36 T	Jul 18	20:41	Jul 26	21:33 p	Aug 3	19:01
Aug 10	10:41	Aug 17	08:41	Aug 25	12:55	Sep 2	03:09
Sep 8	18:32	Sep 16	00:05	Sep 24	03:27	Oct 1	10:03
Oct 8	04:01	Oct 15	18:41	Oct 23	16:57	Oct 30	16:43
Nov 6	16:04	Nov 14	15:13	Nov 22	05:37	Nov 29	00:07
Dec 6	07:20	Dec 14	11:49	Dec 21	17:39 n	Dec 28	09:14

2364	Jan 5	01:30 A	Jan 13	06:36	Jan 20	05:04 n	Jan 26	20:54
00h15m	Feb 3	21:08	Feb 11	22:19	Feb 18	15:43	Feb 25	11:30
	Mar 4	16:13	Mar 12	10:30	Mar 19	01:40	Mar 26	04:37
	Apr 3	09:10	Apr 10	19:20	Apr 17	11:27	Apr 24	23:07
	May 2	23:20	May 10	01:34	May 16	21:49	May 24	17:35
	Jun 1	10:49	Jun 8	06:27	Jun 15	09:29 n	Jun 23	10:52
	Jun 30	20:07 T	Jul 7	11:29	Jul 14	22:46	Jul 23	02:20
	Jul 30	03:56	Aug 5	18:11	Aug 13	13:32	Aug 21	15:48
	Aug 28	11:07	Sep 4	03:54	Sep 12	05:19	Sep 20	03:15
	Sep 26	18:41	Oct 3	17:25	Oct 11	21:36	Oct 19	12:50
	Oct 26	03:42	Nov 2	10:47	Nov 10	13:47	Nov 17	21:00
	Nov 24	15:04	Dec 2	07:05	Dec 10	05:13 p	Dec 17	04:32
	Dec 24	05:10 A						

2365			Jan 1	04:45	Jan 8	19:12	Jan 15	12:34
00h15m	Jan 22	21:40	Jan 31	01:44	Feb 7	07:19	Feb 13	22:06
	Feb 21	15:36	Mar 1	20:09	Mar 8	17:38	Mar 15	09:43
	Mar 23	09:46	Mar 31	10:40	Apr 7	02:41	Apr 13	23:27
	Apr 22	03:04	Apr 29	21:01	May 6	11:13	May 13	14:52
	May 21	18:33	May 29	03:55	Jun 4	19:59 t	Jun 12	07:27
	Jun 20	07:40 P	Jun 27	08:45	Jul 4	05:40	Jul 12	00:41
	Jul 19	18:24	Jul 26	13:07	Aug 2	16:53	Aug 10	17:54
	Aug 18	03:17	Aug 24	18:34	Sep 1	06:07	Sep 9	10:19
	Sep 16	11:21	Sep 23	02:26	Sep 30	21:40	Oct 9	01:06
	Oct 15	19:40	Oct 22	13:42	Oct 30	15:13	Nov 7	13:45
	Nov 14	05:07 P	Nov 21	04:50	Nov 29	09:41 t	Dec 7	00:17
	Dec 13	16:10 P	Dec 20	23:40	Dec 29	03:25		

Year	New Moon	First Quarter	Full Moon	Last Quarter
Delta T				
2366				Jan 5 09:13
00h15m	Jan 12 04:49	Jan 19 21:05	Jan 27 19:04	Feb 3 17:20
	Feb 10 18:58	Feb 18 19:02	Feb 26 08:08	Mar 5 01:26
	Mar 12 10:29	Mar 20 15:05	Mar 27 18:53	Apr 3 10:14
	Apr 11 03:04	Apr 19 07:29	Apr 26 03:55	May 2 20:19
	May 10 19:56 A	May 18 19:47	May 25 11:53 p	Jun 1 08:11
	Jun 9 11:58	Jun 17 04:32	Jun 23 19:25	Jun 30 22:15
	Jul 9 02:17	Jul 16 10:50	Jul 23 03:20	Jul 30 14:29
	Aug 7 14:37	Aug 14 15:56	Aug 21 12:39	Aug 29 08:19
	Sep 6 01:24	Sep 12 21:05	Sep 20 00:26	Sep 28 02:41
	Oct 5 11:25	Oct 12 03:37	Oct 19 15:23	Oct 27 20:23
	Nov 3 21:21 T	Nov 10 12:44	Nov 18 09:15 p	Nov 26 12:25
	Dec 3 07:36	Dec 10 01:27	Dec 18 04:39	Dec 26 02:11
2367	Jan 1 18:16	Jan 8 18:08	Jan 16 23:42	Jan 24 13:27
00h15m				

Jan 31	05:29	Feb 7	13:58	Feb 15	16:51	Feb 22	22:23
Mar 1	17:31	Mar 9	11:07	Mar 17	07:26	Mar 24	05:36
Mar 31	06:46	Apr 8	07:21	Apr 15	19:20 n	Apr 22	12:07
Apr 29	21:14 A	May 8	01:06	May 15	04:50 n	May 21	19:11
May 29	12:32	Jun 6	15:41	Jun 13	12:31	Jun 20	03:57
Jun 28	03:57	Jul 6	03:08	Jul 12	19:14	Jul 19	15:19
Jul 27	18:53	Aug 4	11:52	Aug 11	02:08	Aug 18	05:39
Aug 26	09:05	Sep 2	18:36	Sep 9	10:28	Sep 16	22:43
Sep 24	22:29	Oct 2	00:23	Oct 8	21:19 n	Oct 16	17:47
Oct 24	11:06 H	Oct 31	06:30	Nov 7	11:17 n	Nov 15	13:41
Nov 22	22:54	Nov 29	14:22	Dec 7	04:11	Dec 15	08:59
Dec 22	09:58	Dec 29	01:08				

2368  
00h15m

Jan 20	20:30	Jan 27	15:15	Feb 4	18:25	Feb 12	15:55
Feb 19	06:54	Feb 26	08:14	Mar 5	12:52	Mar 13	02:04
Mar 19	17:33	Mar 27	02:57	Apr 4	05:03 p	Apr 11	09:15
Apr 18	04:45 H	Apr 25	22:04	May 3	18:13	May 10	14:45
May 17	16:42	May 25	16:24	Jun 2	04:22	Jun 8	20:05
Jun 16	05:34	Jun 24	08:59	Jul 1	12:17	Jul 8	02:35
Jul 15	19:31	Jul 23	23:08	Jul 30	19:07	Aug 6	11:21
Aug 14	10:36	Aug 22	10:39	Aug 29	02:08	Sep 4	23:08
Sep 13	02:30	Sep 20	19:50	Sep 27	10:23 p	Oct 4	14:22
Oct 12	18:27 A	Oct 20	03:28	Oct 26	20:36	Nov 3	08:58
Nov 11	09:34	Nov 18	10:37	Nov 25	09:13	Dec 3	06:01
Dec 10	23:18	Dec 17	18:22	Dec 25	00:20		

2369  
00h15m

Jan 9	11:35	Jan 16	03:37	Jan 23	17:46	Jan 31	23:18
Feb 7	22:44	Feb 14	14:53	Feb 22	12:39	Mar 2	15:24
Mar 9	09:02 P	Mar 16	04:17	Mar 24	07:28 t	Apr 1	03:22
Apr 7	18:40 P	Apr 14	19:42	Apr 23	00:30	Apr 30	11:46
May 7	03:54	May 14	12:43	May 22	14:38	May 29	17:44
Jun 5	13:20	Jun 13	06:31	Jun 21	01:53	Jun 27	22:33
Jul 4	23:48	Jul 13	00:02	Jul 20	11:02	Jul 27	03:33
Aug 3	12:10	Aug 11	16:19	Aug 18	19:08	Aug 25	10:02
Sep 2	02:52 P	Sep 10	06:44	Sep 17	03:06 t	Sep 23	19:17
Oct 1	19:33 P	Oct 9	19:12	Oct 16	11:40	Oct 23	08:22
Oct 31	13:07	Nov 8	05:55	Nov 14	21:23	Nov 22	01:41
Nov 30	06:18	Dec 7	15:14	Dec 14	08:44	Dec 21	22:26
Dec 29	22:12						

2370  
00h15m

Jan 28	12:24	Feb 4	07:42	Feb 11	13:53	Feb 19	17:39
Feb 27	00:44 T	Mar 5	16:21	Mar 13	07:15 p	Mar 21	11:46
Mar 28	11:09	Apr 4	02:24	Apr 12	00:59	Apr 20	02:06
Apr 26	19:52	May 3	14:28	May 11	17:43	May 19	12:38
May 26	03:32	Jun 2	04:41	Jun 10	08:37	Jun 17	20:01
Jun 24	11:11	Jul 1	20:41	Jul 9	21:33	Jul 17	01:14
Jul 23	20:00	Jul 31	13:49	Aug 8	08:49	Aug 15	05:40
Aug 22	06:59 A	Aug 30	07:20	Sep 6	18:50 p	Sep 13	10:52
Sep 20	20:38	Sep 29	00:31	Oct 6	04:07	Oct 12	18:25
Oct 20	12:51	Oct 28	16:39	Nov 4	13:16	Nov 11	05:36
Nov 19	06:53	Nov 27	06:58	Dec 3	22:56	Dec 10	20:54
Dec 19	01:38	Dec 26	18:53				

Year  
Delta T

New Moon

First Quarter

Full Moon

Last Quarter

2371  
00h15m

	Jan 2	09:44		Jan 9	15:47
Jan 17	19:47	Jan 25	04:23	Jan 31	22:01 n
Feb 16	12:03 A	Feb 23	12:07	Mar 2	11:45 n
Mar 18	01:32	Mar 24	19:14	Apr 1	02:35
Apr 16	12:07	Apr 23	02:51	Apr 30	18:02
May 15	20:25	May 22	11:52	May 30	09:39
Jun 14	03:29	Jun 20	22:51	Jun 29	01:02
Jul 13	10:28	Jul 20	12:07	Jul 28	15:42 n
Aug 11	18:23 T	Aug 19	03:45	Aug 27	05:12 n
Sep 10	04:05	Sep 17	21:34	Sep 25	17:19
Oct 9	16:12	Oct 17	16:48	Oct 25	04:17
Nov 8	07:08	Nov 16	12:02	Nov 23	14:42
Dec 8	00:50	Dec 16	05:36	Dec 23	01:11
				Jan 9	15:47
				Feb 8	12:47
				Mar 10	09:58
				Apr 9	05:30
				May 8	22:02
				Jun 7	10:53
				Jul 6	20:13
				Aug 5	02:53
				Sep 3	08:11
				Oct 2	13:37
				Oct 31	20:32
				Nov 30	06:04
				Dec 29	18:49

2372  
00h15m

Jan 6	20:24	Jan 14	20:16	Jan 21	12:04 p
Feb 5	16:01 A	Feb 13	07:40	Feb 19	23:19
Mar 6	09:39	Mar 13	16:18	Mar 20	10:50
Apr 5	00:07	Apr 11	23:07	Apr 18	22:49
May 4	11:23	May 11	05:10	May 18	11:41
Jun 2	20:17	Jun 9	11:34	Jun 17	01:46
Jul 2	03:48	Jul 8	19:24	Jul 16	16:57 p
Jul 31	10:51 T	Aug 7	05:43	Aug 15	08:34
Aug 29	18:16	Sep 5	19:20	Sep 13	23:47
Sep 28	02:54	Oct 5	12:29	Oct 13	14:06
Oct 27	13:40	Nov 4	08:26	Nov 12	03:26
Nov 26	03:21	Dec 4	05:28	Dec 11	16:00
Dec 25	20:11				
		Jan 3	01:33	Jan 10	03:51 t
		Jan 16	19:05		
		Feb 1	19:02	Feb 8	14:52
		Mar 3	09:02	Mar 10	01:00
		Apr 1	19:27	Apr 8	10:34
		May 1	02:47	May 7	20:17
		May 30	08:03	Jun 6	06:59
		Jun 28	12:42	Jul 5	19:16 t
		Jul 27	18:16	Aug 4	09:15
		Aug 26	02:16	Sep 3	00:40
		Sep 24	13:47	Oct 2	16:57
		Oct 24	05:20	Nov 1	09:32
		Nov 23	00:25	Dec 1	01:43
		Dec 22	21:44	Dec 30	16:41 p
				Jan 6	12:58
				Feb 4	21:33
				Mar 6	07:51
				Apr 4	20:14
				May 4	10:31
				Jun 3	02:17
				Jul 2	19:06
				Aug 1	12:27
				Aug 31	05:34
				Sep 29	21:34
				Oct 29	11:41
				Nov 27	23:33
				Dec 27	09:24

2373  
00h15m

Jan 24	15:16 P	Feb 1	19:02	Feb 8	14:52
Feb 23	10:46	Mar 3	09:02	Mar 10	01:00
Mar 25	04:48	Apr 1	19:27	Apr 8	10:34
Apr 23	20:17	May 1	02:47	May 7	20:17
May 23	09:00	May 30	08:03	Jun 6	06:59
Jun 21	19:19 T	Jun 28	12:42	Jul 5	19:16 t
Jul 21	03:51	Jul 27	18:16	Aug 4	09:15
Aug 19	11:20	Aug 26	02:16	Sep 3	00:40
Sep 17	18:42	Sep 24	13:47	Oct 2	16:57
Oct 17	03:00	Oct 24	05:20	Nov 1	09:32
Nov 15	13:14	Nov 23	00:25	Dec 1	01:43
Dec 15	02:00 A	Dec 22	21:44	Dec 30	16:41 p
				Jan 6	12:58
				Feb 4	21:33
				Mar 6	07:51
				Apr 4	20:14
				May 4	10:31
				Jun 3	02:17
				Jul 2	19:06
				Aug 1	12:27
				Aug 31	05:34
				Sep 29	21:34
				Oct 29	11:41
				Nov 27	23:33
				Dec 27	09:24

2374  
00h16m

Jan 13	17:21	Jan 21	19:23	Jan 29	05:50
Feb 12	10:32	Feb 20	15:19	Feb 27	16:58
Mar 14	04:32	Mar 22	07:52	Mar 29	02:26
Apr 12	22:11	Apr 20	20:14	Apr 27	10:56
May 12	14:32	May 20	04:42	May 26	19:17
Jun 11	04:51 A	Jun 18	10:22	Jun 25	04:15 p
Jul 10	16:48	Jul 17	14:46	Jul 24	14:31
Aug 9	02:38	Aug 15	19:29	Aug 23	02:39
Sep 7	11:09	Sep 14	02:01	Sep 21	17:05
Oct 6	19:25	Oct 13	11:30	Oct 21	09:53
Nov 5	04:25	Nov 12	00:42	Nov 20	04:17
Dec 4	14:46 T	Dec 11	17:46	Dec 19	22:48 n
				Jan 6	12:58
				Feb 4	21:33
				Mar 6	07:51
				Apr 4	20:14
				May 4	10:31
				Jun 3	02:17
				Jul 2	19:06
				Aug 1	12:27
				Aug 31	05:34
				Sep 29	21:34
				Oct 29	11:41
				Nov 27	23:33
				Dec 27	09:24

2375  
00h16m

Jan 3	02:38	Jan 10	14:05	Jan 18	15:45
Feb 1	15:57	Feb 9	11:59	Feb 17	06:09
				Jan 25	17:52
				Feb 24	01:47

Mar 3	06:35	Mar 11	09:10	Mar 18	17:55	Mar 25	09:57
Apr 1	22:25	Apr 10	03:28	Apr 17	03:36	Apr 23	19:01
May 1	15:00	May 9	17:46	May 16	11:53 p	May 23	05:36
May 31	07:25 A	Jun 8	04:13	Jun 14	19:24	Jun 21	18:15
Jun 29	22:39	Jul 7	11:40	Jul 14	02:56	Jul 21	09:16
Jul 29	12:04	Aug 5	17:19	Aug 12	11:22	Aug 20	02:24
Aug 27	23:44	Sep 3	22:24	Sep 10	21:49	Sep 18	20:49
Sep 26	10:17	Oct 3	04:12	Oct 10	11:12	Oct 18	15:18
Oct 25	20:27	Nov 1	11:56	Nov 9	03:49 p	Nov 17	08:35
Nov 24	06:43 T	Nov 30	22:47	Dec 8	22:48	Dec 16	23:50
Dec 23	17:17	Dec 30	13:27				

Year Delta T	New Moon	First Quarter	Full Moon	Last Quarter
2376 00h16m			Jan 7 18:21	Jan 15 12:32
	Jan 22 04:11	Jan 29 07:44	Feb 6 12:39	Feb 13 22:38
	Feb 20 15:37	Feb 28 04:18	Mar 7 04:32	Mar 14 06:31
	Mar 21 03:59	Mar 29 01:02	Apr 5 17:41	Apr 12 13:04
	Apr 19 17:34	Apr 27 20:02	May 5 04:14 t	May 11 19:27
	May 19 08:15 P	May 27 12:11	Jun 3 12:39	Jun 10 02:58
	Jun 17 23:30	Jun 26 01:14	Jul 2 19:40	Jul 9 12:44
	Jul 17 14:42	Jul 25 11:25	Aug 1 02:19	Aug 8 01:26
	Aug 16 05:24	Aug 23 19:16	Aug 30 09:49	Sep 6 17:11
	Sep 14 19:26	Sep 22 01:36	Sep 28 19:21	Oct 6 11:29
	Oct 14 08:44 P	Oct 21 07:34	Oct 28 07:49 t	Nov 5 07:21
	Nov 12 21:14 P	Nov 19 14:30	Nov 26 23:24	Dec 5 03:25
	Dec 12 08:51	Dec 18 23:44	Dec 26 17:28	
2377 00h16m				Jan 3 22:02
	Jan 10 19:42	Jan 17 12:04	Jan 25 12:45	Feb 2 13:43
	Feb 9 06:05	Feb 16 03:30	Feb 24 07:47	Mar 4 01:42
	Mar 10 16:23	Mar 17 21:13	Mar 26 01:09	Apr 2 10:10
	Apr 9 03:02 T	Apr 16 16:00	Apr 24 15:47 p	May 1 16:13
	May 8 14:18	May 16 10:39	May 24 03:19	May 30 21:18
	Jun 7 02:27	Jun 15 04:08	Jun 22 12:13	Jun 29 02:53
	Jul 6 15:40	Jul 14 19:40	Jul 21 19:28	Jul 28 10:16
	Aug 5 06:10	Aug 13 08:43	Aug 20 02:20	Aug 26 20:22
	Sep 3 21:50	Sep 11 19:17	Sep 18 09:57	Sep 25 09:50
	Oct 3 14:06 A	Oct 11 03:53	Oct 17 19:15 p	Oct 25 02:53
	Nov 2 06:02	Nov 9 11:23	Nov 16 06:44	Nov 23 23:02
	Dec 1 20:46	Dec 8 18:51	Dec 15 20:38	Dec 23 20:47
	Dec 31 09:56			
2378 00h16m		Jan 7 03:17	Jan 14 12:54	Jan 22 17:48
	Jan 29 21:40	Feb 5 13:22	Feb 13 07:04	Feb 21 11:54
	Feb 28 08:18	Mar 7 01:26	Mar 15 01:58 n	Mar 23 01:55
	Mar 29 18:04 T	Apr 5 15:32	Apr 13 19:56 n	Apr 21 11:57
	Apr 28 03:14	May 5 07:29	May 13 11:29	May 20 18:56
	May 27 12:15	Jun 4 00:45	Jun 12 00:06	Jun 19 00:06
	Jun 25 21:53	Jul 3 18:27	Jul 11 10:13	Jul 18 04:48
	Jul 25 09:05	Aug 2 11:33	Aug 9 18:50	Aug 16 10:20
	Aug 23 22:35	Sep 1 03:10	Sep 8 02:55 n	Sep 14 18:02
	Sep 22 14:28 A	Sep 30 16:56	Oct 7 11:18 n	Oct 14 05:06
	Oct 22 07:57	Oct 30 04:51	Nov 5 20:33	Nov 12 20:21
	Nov 21 01:44	Nov 28 15:06	Dec 5 07:07	Dec 12 15:36
	Dec 20 18:34	Dec 28 00:02		

2379				Jan 3	19:28	Jan 11	13:22	
00h16m								
	Jan 19	09:47	Jan 26	08:11	Feb 2	09:56	Feb 10	11:15
	Feb 17	23:05	Feb 24	16:18	Mar 4	02:23 p	Mar 12	06:58
	Mar 19	10:22 T	Mar 26	01:18	Apr 2	19:51	Apr 10	23:11
	Apr 17	19:44	Apr 24	11:59	May 2	13:00	May 10	11:34
	May 17	03:39	May 24	00:48	Jun 1	04:46	Jun 8	20:27
	Jun 15	11:00	Jun 22	15:42	Jun 30	18:40	Jul 8	02:39
	Jul 14	18:59	Jul 22	08:15	Jul 30	06:50	Aug 6	07:21
	Aug 13	04:42	Aug 21	01:44	Aug 28	17:36 p	Sep 4	12:02
	Sep 11	17:00 A	Sep 19	19:23	Sep 27	03:25	Oct 3	18:17
	Oct 11	08:05	Oct 19	12:28	Oct 26	12:47	Nov 2	03:34
	Nov 10	01:28	Nov 18	04:08	Nov 24	22:18	Dec 1	16:49
	Dec 9	20:11	Dec 17	17:34	Dec 24	08:33	Dec 31	10:00

2380	Jan 8	14:57	Jan 16	04:23	Jan 22	20:02	Jan 30	06:03
00h16m								
	Feb 7	08:22 P	Feb 14	12:54	Feb 21	08:54 t	Feb 29	03:13
	Mar 7	23:17 P	Mar 14	20:03	Mar 21	22:59	Mar 29	23:38
	Apr 6	11:12	Apr 13	03:04	Apr 20	13:53	Apr 28	17:42
	May 5	20:24	May 12	11:00	May 20	05:13	May 28	08:25
	Jun 4	03:50	Jun 10	20:40	Jun 18	20:37	Jun 26	19:31
	Jul 3	10:39	Jul 10	08:31	Jul 18	11:43	Jul 26	03:32
	Aug 1	17:57 P	Aug 8	22:51	Aug 17	02:01 t	Aug 24	09:32
	Aug 31	02:41 P	Sep 7	15:40	Sep 15	15:04	Sep 22	14:53
	Sep 29	13:35	Oct 7	10:30	Oct 15	02:50	Oct 21	21:02
	Oct 29	03:09	Nov 6	06:14	Nov 13	13:42	Nov 20	05:14
	Nov 27	19:37	Dec 6	01:08	Dec 13	00:16	Dec 19	16:19
	Dec 27	14:29						

Year	New Moon	First Quarter	Full Moon	Last Quarter				
Delta T								
2381		Jan 4	17:34	Jan 11	11:00	Jan 18	06:36	
00h16m								
	Jan 26	10:21 A	Feb 3	06:42	Feb 9	22:01 p	Feb 16	23:47
	Feb 25	05:09	Mar 4	16:37	Mar 11	09:13	Mar 18	19:02
	Mar 26	21:13	Apr 3	00:08	Apr 9	20:39	Apr 17	14:53
	Apr 25	09:56	May 2	06:15	May 9	08:43	May 17	09:41
	May 24	19:49	May 31	12:09	Jun 7	21:55	Jun 16	02:05
	Jun 23	03:52	Jun 29	18:55	Jul 7	12:28	Jul 15	15:33
	Jul 22	11:03 T	Jul 29	03:42	Aug 6	03:58 p	Aug 14	02:16
	Aug 20	18:15	Aug 27	15:30	Sep 4	19:39	Sep 12	10:55
	Sep 19	02:16	Sep 26	06:55	Oct 4	10:44	Oct 11	18:21
	Oct 18	11:57	Oct 26	01:45	Nov 3	00:50	Nov 10	01:25
	Nov 17	00:10	Nov 24	22:41	Dec 2	14:01	Dec 9	09:02
	Dec 16	15:30	Dec 24	19:41				
2382				Jan 1	02:23 n	Jan 7	18:07	
00h16m								
	Jan 15	09:36 A	Jan 23	14:46	Jan 30	13:53 n	Feb 6	05:28
	Feb 14	05:02	Feb 22	06:38	Mar 1	00:21	Mar 7	19:32
	Mar 15	23:52	Mar 23	18:49	Mar 30	09:56	Apr 6	11:58
	Apr 14	16:35	Apr 22	03:31	Apr 28	19:14	May 6	05:51
	May 14	06:34	May 21	09:35	May 28	05:05	Jun 4	23:55
	Jun 12	18:01	Jun 19	14:15	Jun 26	16:19 n	Jul 4	17:07
	Jul 12	03:24 T	Jul 18	19:04	Jul 26	05:21	Aug 3	08:52
	Aug 10	11:24	Aug 17	01:36	Aug 24	20:07	Sep 1	22:51
	Sep 8	18:50	Sep 15	11:13	Sep 23	12:11	Oct 1	10:57
	Oct 8	02:42	Oct 15	00:45	Oct 23	04:57	Oct 30	21:11
	Nov 6	11:59	Nov 13	18:15	Nov 21	21:41	Nov 29	05:50
	Dec 5	23:31	Dec 13	14:44	Dec 21	13:35 p	Dec 28	13:37

2383	Jan 4	13:37 A	Jan 12	12:32	Jan 20	03:50	Jan 26	21:36
00h16m	Feb 3	05:52	Feb 11	09:36	Feb 18	15:58	Feb 25	06:47
	Mar 4	23:24	Mar 13	03:59	Mar 20	02:05	Mar 26	17:50
	Apr 3	17:07	Apr 11	18:27	Apr 18	10:47	Apr 25	06:51
	May 3	10:03	May 11	04:46	May 17	18:55	May 24	21:36
	Jun 2	01:22	Jun 9	11:39	Jun 16	03:18 t	Jun 23	13:44
	Jul 1	14:32 P	Jul 8	16:30	Jul 15	12:42	Jul 23	06:50
	Jul 31	01:29	Aug 6	20:52	Aug 13	23:46	Aug 22	00:17
	Aug 29	10:44	Sep 5	02:21	Sep 12	13:03	Sep 20	17:14
	Sep 27	19:11	Oct 4	10:16	Oct 12	04:48	Oct 20	08:43
	Oct 27	03:55	Nov 2	21:35	Nov 10	22:44	Nov 18	22:04
	Nov 25	13:41 P	Dec 2	12:45	Dec 10	17:37 t	Dec 18	09:07
	Dec 25	00:52 P						

2384			Jan 1	07:33	Jan 9	11:42	Jan 16	18:17
00h16m	Jan 23	13:26	Jan 31	04:50	Feb 8	03:30	Feb 15	02:21
	Feb 22	03:14	Mar 1	02:35	Mar 8	16:30	Mar 15	10:08
	Mar 22	18:13	Mar 30	22:26	Apr 7	03:03	Apr 13	18:23
	Apr 21	10:13	Apr 29	14:44	May 6	11:48	May 13	03:49
	May 21	02:38 A	May 29	03:03	Jun 4	19:29 t	Jun 11	15:05
	Jun 19	18:29	Jun 27	11:56	Jul 4	02:48	Jul 11	04:41
	Jul 19	08:54	Jul 26	18:28	Aug 2	10:37	Aug 9	20:45
	Aug 17	21:34	Aug 24	23:48	Aug 31	19:55	Sep 8	14:45
	Sep 16	08:50	Sep 23	05:12	Sep 30	07:47	Oct 8	09:37
	Oct 15	19:22	Oct 22	11:55	Oct 29	22:55	Nov 7	03:57
	Nov 14	05:46 T	Nov 20	21:08	Nov 28	17:00 p	Dec 6	20:37
	Dec 13	16:21	Dec 20	09:48	Dec 28	12:38		

2385							Jan 5	10:51
00h16m	Jan 12	03:06	Jan 19	02:16	Jan 27	07:48	Feb 3	22:20
	Feb 10	14:08	Feb 17	21:44	Feb 26	00:58	Mar 5	07:13
	Mar 12	01:46	Mar 19	18:25	Mar 27	15:25	Apr 3	14:09
	Apr 10	14:26	Apr 18	14:17	Apr 26	03:08 n	May 2	20:15
	May 10	04:19 A	May 18	07:51	May 25	12:28 n	Jun 1	02:48
	Jun 8	19:08	Jun 16	22:29	Jun 23	20:01	Jun 30	11:05
	Jul 8	10:21	Jul 16	10:11	Jul 23	02:42	Jul 29	22:05
	Aug 7	01:23	Aug 14	19:20	Aug 21	09:39	Aug 28	12:16
	Sep 5	15:57	Sep 13	02:32	Sep 19	18:06	Sep 27	05:27
	Oct 5	05:55	Oct 12	08:44	Oct 19	05:07	Oct 27	00:52
	Nov 3	19:07 A	Nov 10	15:10	Nov 17	19:14 n	Nov 25	21:16
	Dec 3	07:25	Dec 9	23:10	Dec 17	12:13	Dec 25	17:02

Year	New Moon	First Quarter	Full Moon	Last Quarter
Delta T				
2386	Jan 1	Jan 8	Jan 16	Jan 24
00h16m	18:46	09:50	07:03	10:30
	Jan 31	Feb 6	Feb 15	Feb 23
	05:20	23:36	02:20	00:26
	Mar 1	Mar 8	Mar 16	Mar 24
	15:30	16:03	20:36	10:32
	Mar 31	Apr 7	Apr 15	Apr 22
	01:43	10:08	12:35 p	17:32
	Apr 29	May 7	May 15	May 21
	12:23 H	04:44	01:36	22:46
	May 28	Jun 5	Jun 13	Jun 20
	23:48	22:46	11:42	03:47
	Jun 27	Jul 5	Jul 12	Jul 19
	12:15	15:23	19:39	10:00
	Jul 27	Aug 4	Aug 11	Aug 17
	02:00	05:53	02:38	18:32
	Aug 25	Sep 2	Sep 9	Sep 16
	17:10	17:57	09:51	06:13
	Sep 24	Oct 2	Oct 8	Oct 15
	09:25	03:45	18:21 p	21:31
	Oct 24	Oct 31	Nov 7	Nov 14
	01:55 A	11:57	04:49	16:20

Nov 22 17:38      Nov 29 19:30      Dec 6 17:33      Dec 14 13:40  
Dec 22 07:49      Dec 29 03:25

2387  
00h16m

Jan 20 20:19      Jan 27 12:33      Feb 4 01:50      Feb 12 07:19  
Feb 19 07:26      Feb 25 23:23      Mar 5 20:23      Mar 13 23:27  
Mar 20 17:29 P      Mar 27 12:10      Apr 4 14:50 t      Apr 12 11:22  
Apr 19 02:43 P      Apr 26 02:53      May 4 07:35      May 11 19:41  
May 18 11:31      May 25 19:16      Jun 2 21:38      Jun 10 01:34  
Jun 16 20:31      Jun 24 12:42      Jul 2 08:56      Jul 9 06:18  
Jul 16 06:40      Jul 24 06:14      Jul 31 18:16      Aug 7 11:13  
Aug 14 18:53      Aug 22 22:52      Aug 30 02:40      Sep 5 17:39  
Sep 13 09:40      Sep 21 13:53      Sep 28 11:00 t      Oct 5 02:55  
Oct 13 02:40 P      Oct 21 03:03      Oct 27 19:56      Nov 3 16:02  
Nov 11 20:42      Nov 19 14:25      Nov 26 05:55      Dec 3 09:25  
Dec 11 14:22      Dec 19 00:11      Dec 25 17:21

2388  
00h16m

Jan 10 06:37      Jan 17 08:43      Jan 24 06:40      Feb 1 04:19  
Feb 8 20:57      Feb 15 16:40      Feb 22 22:00      Mar 2 01:17  
Mar 9 09:12 T      Mar 16 00:55      Mar 23 14:51 p      Mar 31 19:18  
Apr 7 19:22      Apr 14 10:22      Apr 22 08:04      Apr 30 09:33  
May 7 03:45      May 13 21:44      May 22 00:28      May 29 20:07  
Jun 5 11:06      Jun 12 11:19      Jun 20 15:16      Jun 28 03:36  
Jul 4 18:30      Jul 12 02:57      Jul 20 04:20      Jul 27 08:58  
Aug 3 03:08      Aug 10 20:02      Aug 18 15:55      Aug 25 13:33  
Sep 1 14:04 A      Sep 9 13:51      Sep 17 02:23 p      Sep 23 18:54  
Oct 1 03:50      Oct 9 07:37      Oct 16 12:10      Oct 23 02:34  
Oct 30 20:17      Nov 8 00:26      Nov 14 21:44      Nov 21 13:47  
Nov 29 14:38      Dec 7 15:23      Dec 14 07:40      Dec 21 05:03  
Dec 29 09:40

2389  
00h16m

Jan 6 03:44      Jan 12 18:31      Jan 19 23:45  
Jan 28 04:00      Feb 4 13:22      Feb 11 06:34 n      Feb 18 20:26  
Feb 26 20:17 A      Mar 5 20:59      Mar 12 19:52 n      Mar 20 17:16  
Mar 28 09:39      Apr 4 03:44      Apr 11 10:06      Apr 19 12:32  
Apr 26 20:01      May 3 10:50      May 11 00:59      May 19 04:57  
May 26 04:06      Jun 1 19:16      Jun 9 16:12      Jun 17 17:54  
Jun 24 11:00      Jul 1 05:44      Jul 9 07:27      Jul 17 03:30  
Jul 23 17:53      Jul 30 18:39      Aug 7 22:18 n      Aug 15 10:32  
Aug 22 01:48 T      Aug 29 10:12      Sep 6 12:14 n      Sep 13 16:13  
Sep 20 11:36      Sep 28 04:14      Oct 6 00:55      Oct 12 21:58  
Oct 19 23:52      Oct 27 23:57      Nov 4 12:26      Nov 11 05:07  
Nov 18 14:58      Nov 26 19:46      Dec 3 23:17      Dec 10 14:43  
Dec 18 08:48      Dec 26 13:52

2390  
00h16m

Jan 2 10:01      Jan 9 03:19  
Jan 17 04:25      Jan 25 04:51      Jan 31 20:53 p      Feb 7 18:56  
Feb 15 23:59 A      Feb 23 16:21      Mar 2 07:51      Mar 9 13:02  
Mar 17 17:30      Mar 25 00:54      Mar 31 18:54      Apr 8 08:30  
Apr 16 07:48      Apr 23 07:26      Apr 30 06:18      May 8 03:49  
May 15 18:56      May 22 13:08      May 29 18:37      Jun 6 21:28  
Jun 14 03:43      Jun 20 19:08      Jun 28 08:18      Jul 6 12:30  
Jul 13 11:14      Jul 20 02:36      Jul 27 23:21 p      Aug 5 00:43  
Aug 11 18:22 T      Aug 18 12:40      Aug 26 15:09      Sep 3 10:35  
Sep 10 01:57      Sep 17 02:12      Sep 25 06:50      Oct 2 18:48  
Oct 9 10:48      Oct 16 19:30      Oct 24 21:44      Nov 1 02:10  
Nov 7 21:46      Nov 15 15:45      Nov 23 11:39      Nov 30 09:33  
Dec 7 11:33      Dec 15 13:11      Dec 23 00:37      Dec 29 17:49

Year Delta T	New Moon		First Quarter		Full Moon		Last Quarter	
2391 00h17m	Jan	6 04:21	Jan	14 09:35	Jan	21 12:39 t	Jan	28 03:51
	Feb	4 23:15 P	Feb	13 03:15	Feb	19 23:36	Feb	26 16:18
	Mar	6 18:29	Mar	14 17:18	Mar	21 09:25	Mar	28 07:18
	Apr	5 12:15	Apr	13 03:38	Apr	19 18:32	Apr	27 00:16
	May	5 03:31	May	12 10:49	May	19 03:45	May	26 18:08
	Jun	3 16:08	Jun	10 15:56	Jun	17 14:00	Jun	25 11:47
	Jul	3 02:30 P	Jul	9 20:23	Jul	17 01:57 t	Jul	25 04:22
	Aug	1 11:12 P	Aug	8 01:48	Aug	15 15:51	Aug	23 19:29
	Aug	30 18:56	Sep	6 09:40	Sep	14 07:25	Sep	22 08:51
	Sep	29 02:38	Oct	5 21:11	Oct	14 00:07	Oct	21 20:21
	Oct	28 11:14	Nov	4 12:48	Nov	12 17:14	Nov	20 06:00
	Nov	26 21:41	Dec	4 08:02	Dec	12 09:55	Dec	19 14:17
	Dec	26 10:31 A						
2392 00h17m			Jan	3 05:29	Jan	11 01:14 p	Jan	17 22:04
	Jan	25 01:41	Feb	2 03:11	Feb	9 14:29	Feb	16 06:25
	Feb	23 18:31	Mar	2 23:06	Mar	10 01:30	Mar	16 16:14
	Mar	24 12:02	Apr	1 15:36	Apr	8 10:39	Apr	15 03:57
	Apr	23 05:16	May	1 03:56	May	7 18:47	May	14 17:32
	May	22 21:21	May	30 12:23	Jun	6 02:45	Jun	13 08:44
	Jun	21 11:37 A	Jun	28 18:05	Jul	5 11:25 p	Jul	13 01:17
	Jul	20 23:44	Jul	27 22:31	Aug	3 21:30	Aug	11 18:41
	Aug	19 09:55	Aug	26 03:18	Sep	2 09:36	Sep	10 12:13
	Sep	17 18:51	Sep	24 09:53	Oct	2 00:11	Oct	10 04:53
	Oct	17 03:32	Oct	23 19:27	Oct	31 17:16	Nov	8 19:43
	Nov	15 12:54	Nov	22 08:41	Nov	30 12:04	Dec	8 08:11
	Dec	14 23:28 T	Dec	22 01:44	Dec	30 06:56 n		
2393 00h17m							Jan	6 18:23
	Jan	13 11:20	Jan	20 21:55	Jan	29 00:06	Feb	5 02:56
	Feb	12 00:23	Feb	19 19:36	Feb	27 14:31	Mar	6 10:38
	Mar	13 14:33	Mar	21 16:32	Mar	29 02:08	Apr	4 18:20
	Apr	12 05:47	Apr	20 10:39	Apr	27 11:34	May	4 02:48
	May	11 21:50	May	20 00:56	May	26 19:34 p	Jun	2 12:46
	Jun	10 13:57 A	Jun	18 11:29	Jun	25 02:52	Jul	2 00:53
	Jul	10 05:10	Jul	17 19:10	Jul	24 10:16	Jul	31 15:36
	Aug	8 18:50	Aug	16 01:05	Aug	22 18:41	Aug	30 08:45
	Sep	7 06:57	Sep	14 06:27	Sep	21 05:11	Sep	29 03:32
	Oct	6 18:02	Oct	13 12:29	Oct	20 18:43	Oct	28 22:35
	Nov	5 04:42	Nov	11 20:23	Nov	19 11:32 p	Nov	27 16:32
	Dec	4 15:22 T	Dec	11 07:14	Dec	19 06:43	Dec	27 08:18
2394 00h17m	Jan	3 02:07	Jan	9 21:44	Jan	18 02:24	Jan	25 21:19
	Feb	1 12:57	Feb	8 15:41	Feb	16 20:43	Feb	24 07:28
	Mar	3 00:04	Mar	10 11:47	Mar	18 12:31	Mar	25 15:10
	Apr	1 11:54	Apr	9 08:04	Apr	17 01:30	Apr	23 21:21
	May	1 00:52	May	9 02:46	May	16 11:52 t	May	23 03:17
	May	30 15:01 P	Jun	7 18:52	Jun	14 20:09	Jun	21 10:20
	Jun	29 05:57	Jul	7 08:06	Jul	14 03:08	Jul	20 19:41
	Jul	28 21:07	Aug	5 18:40	Aug	12 09:50	Aug	19 08:08
	Aug	27 12:06	Sep	4 02:59	Sep	10 17:26	Sep	17 23:53
	Sep	26 02:37	Oct	3 09:48	Oct	10 03:09	Oct	17 18:26
	Oct	25 16:31 P	Nov	1 16:09	Nov	8 15:47 t	Nov	16 14:44



Nov 24	05:34	P	Nov 30	23:19	Dec 8	07:28	Dec 16	11:16
Dec 23	17:34		Dec 30	08:33				

2395  
00h17m

Jan 22	04:33		Jan 28	20:38	Feb 5	20:42	Feb 13	22:09	
Feb 20	14:47		Feb 27	11:35	Mar 7	15:32	Mar 15	10:08	
Mar 22	00:45		Mar 29	04:40	Apr 6	08:41	Apr 13	18:29	
Apr 20	10:53	T	Apr 27	22:50	May 5	23:09	p	May 13	00:19
May 19	21:37		May 27	17:04	Jun 4	10:37	Jun 11	05:08	
Jun 18	09:18		Jun 26	10:27	Jul 3	19:32	Jul 10	10:26	
Jul 17	22:14		Jul 26	02:12	Aug 2	02:55	Aug 8	17:35	
Aug 16	12:41		Aug 24	15:44	Aug 31	09:58	Sep 7	03:33	
Sep 15	04:35		Sep 23	02:56	Sep 29	17:52	Oct 6	17:01	
Oct 14	21:20	A	Oct 22	12:09	Oct 29	03:25	p	Nov 5	10:13
Nov 13	13:52		Nov 20	20:08	Nov 27	15:05	Dec 5	06:36	
Dec 13	05:07		Dec 20	03:53	Dec 27	05:01			

Year	New Moon	First Quarter	Full Moon	Last Quarter
Delta T				

2396  
00h17m

Jan 11	18:35	Jan 18	12:19	Jan 25	21:07	Feb 3	01:44		
Feb 10	06:23	Feb 16	22:06	Feb 24	14:56	Mar 3	19:53		
Mar 10	16:50	Mar 17	09:37	Mar 25	09:26	n	Apr 2	09:52	
Apr 9	02:16	T	Apr 15	23:01	Apr 24	03:03	n	May 1	19:50
May 8	11:00		May 15	14:17	May 23	18:26		May 31	02:45
Jun 6	19:37		Jun 14	07:03	Jun 22	07:03		Jun 29	07:52
Jul 6	04:54		Jul 14	00:36	Jul 21	17:21		Jul 28	12:31
Aug 4	15:53		Aug 12	17:54	Aug 20	02:14		Aug 26	18:01
Sep 3	05:22		Sep 11	10:03	Sep 18	10:41	n	Sep 25	01:43
Oct 2	21:28	A	Oct 11	00:30	Oct 17	19:27	n	Oct 24	12:50
Nov 1	15:22		Nov 9	13:05	Nov 16	05:01		Nov 23	04:08
Dec 1	09:37		Dec 8	23:53	Dec 15	15:45		Dec 22	23:25
Dec 31	02:51								

2397  
00h17m

Jan 29	18:17	Feb 5	17:15	Feb 12	18:14	Feb 20	18:54		
Feb 28	07:34	Mar 7	01:04	Mar 14	10:11	p	Mar 22	14:28	
Mar 29	18:39	T	Apr 5	09:32	Apr 13	03:06	Apr 21	06:35	
Apr 28	03:43		May 4	19:32	May 12	19:50	May 20	18:57	
May 27	11:19		Jun 3	07:42	Jun 11	11:22	Jun 19	03:55	
Jun 25	18:25		Jul 2	22:07	Jul 11	01:20	Jul 18	10:17	
Jul 25	02:12		Aug 1	14:28	Aug 9	13:46	Aug 16	15:11	
Aug 23	11:51		Aug 31	08:06	Sep 8	00:58	p	Sep 14	20:03
Sep 22	00:12	A	Sep 30	02:14	Oct 7	11:17	Oct 14	02:27	
Oct 21	15:28		Oct 29	19:58	Nov 5	21:07	Nov 12	11:50	
Nov 20	09:08		Nov 28	12:18	Dec 5	06:58	Dec 12	01:04	
Dec 20	04:08		Dec 28	02:15					

2398  
00h17m

Jan 18	23:05	Jan 26	13:19	Feb 2	04:43	Feb 9	13:51		
Feb 17	16:34	P	Feb 24	21:49	Mar 3	17:13	t	Mar 11	10:38
Mar 19	07:24	P	Mar 26	04:42	Apr 2	06:45	Apr 10	06:42	
Apr 17	19:08		Apr 24	11:16	May 1	21:03	May 10	00:34	
May 17	04:08		May 23	18:39	May 31	11:53	Jun 8	15:18	
Jun 15	11:23		Jun 22	03:47	Jun 30	03:03	Jul 8	02:38	
Jul 14	18:06		Jul 21	15:14	Jul 29	18:12	Aug 6	11:00	

Aug 13	01:23	P	Aug 20	05:22	Aug 28	08:50	t	Sep 4	17:24
Sep 11	10:12	P	Sep 18	22:16	Sep 26	22:25		Oct 3	23:08
Oct 10	21:14		Oct 18	17:28	Oct 26	10:46		Nov 2	05:35
Nov 9	10:59		Nov 17	13:43	Nov 24	22:09		Dec 1	13:56
Dec 9	03:34		Dec 17	09:10	Dec 24	09:02		Dec 31	00:57

2399  
00h17m

Jan 7	22:29		Jan 16	02:00	Jan 22	19:51		Jan 29	14:57
Feb 6	18:19	A	Feb 14	15:19	Feb 21	06:41	p	Feb 28	07:39
Mar 8	13:00		Mar 16	01:13	Mar 22	17:28		Mar 30	02:18
Apr 7	04:54		Apr 14	08:32	Apr 21	04:22		Apr 28	21:38
May 6	17:28		May 13	14:21	May 20	15:53		May 28	16:09
Jun 5	03:15		Jun 11	19:53	Jun 19	04:37		Jun 27	08:34
Jul 4	11:16		Jul 11	02:18	Jul 18	18:54		Jul 26	22:20
Aug 2	18:32	T	Aug 9	10:48	Aug 17	10:27	p	Aug 25	09:33
Sep 1	01:53		Sep 7	22:27	Sep 16	02:29		Sep 23	18:47
Sep 30	10:07		Oct 7	13:55	Oct 15	18:07		Oct 23	02:45
Oct 29	20:02		Nov 6	08:59	Nov 14	08:49		Nov 21	10:13
Nov 28	08:24		Dec 6	06:16	Dec 13	22:30		Dec 20	18:01
Dec 27	23:44								

2400  
00h17m

			Jan 5	03:35	Jan 12	11:08	n	Jan 19	03:01
Jan 26	17:41	A	Feb 3	22:53	Feb 10	22:39	n	Feb 17	14:01
Feb 25	12:51		Mar 4	14:49	Mar 11	08:53		Mar 18	03:28
Mar 26	07:22		Apr 3	02:58	Apr 9	18:05		Apr 16	19:13
Apr 24	23:49		May 2	11:34	May 9	02:54		May 16	12:28
May 24	13:40		May 31	17:29	Jun 7	12:18		Jun 15	06:10
Jun 23	01:07		Jun 29	22:01	Jul 6	23:09	n	Jul 14	23:21
Jul 22	10:38	T	Jul 29	02:42	Aug 5	12:00	n	Aug 13	15:24
Aug 20	18:53		Aug 27	09:07	Sep 4	02:49		Sep 12	05:58
Sep 19	02:39		Sep 25	18:41	Oct 3	19:11		Oct 11	18:45
Oct 18	10:51		Oct 25	08:16	Nov 2	12:26		Nov 10	05:37
Nov 16	20:25		Nov 24	01:52	Dec 2	05:42		Dec 9	14:44
Dec 16	08:05		Dec 23	22:28	Dec 31	22:00	p		