

Date	Events	Sun		Moon		
		Rise	Set	Rise	Set	Phase
<b>Monday June 16</b>	<b>Antares 1.1°N of The Moon 01:01 (June 17)</b> Altitude 14°, Azimuth 205° In constellation Scorpius Antares magnitude 1.29	05:40	21:05	19:49	03:41	0.98
<b>Friday June 20</b>	<b>Pluto at opposition 16:22</b> Pluto in constellation Sagittarius Magnitude 13.92  <b>Summer Solstice 19:59</b> Earth-Sun distance 152028935km Angular size of Sun 31'28" First time since 1896 that Summer Solstice has fallen on June 20.	05:41	21:06	22:54	07:04	0.98
<b>Sunday June 22</b>	<b>Double Shadow Transit on Jupiter 23:00</b> Shadows of Ganymede and Europa cross the face of Jupiter	05:41	21:07	23:47	09:17	0.88
<b>Monday June 23</b>	<b>Neptune 0.0°S of The Moon 03:52 – !!! OCCULTATION !!!</b> Altitude 32°, Azimuth 173° In constellation Capricornus Neptune magnitude 7.86	05:42	21:07		10:24	0.81
<b>Monday June 30</b>	<b>Occultation of Pleiades by the The Moon 02:33</b> In constellation Taurus Pleiades magnitude 1.20	05:45	21:07	02:47	19:05	0.09
<b>Friday July 4</b>	<b>Earth at aphelion 03:39</b> Earth-Sun distance 152104160km Angular size of Sun 31'27"	05:47	21:06	07:23	22:35	0.04
<b>Wednesday July 9</b>	<b>Jupiter at opposition 03:27</b> Jupiter in constellation Sagittarius Magnitude -2.58	05:50	21:04	13:24	00:04	0.48
<b>Friday July 11</b>	<b>Saturn 0.7°N of Mars 02:25</b> In constellation Leo Saturn magnitude 0.76 Mars magnitude 1.68	05:52	21:03	15:34	00:46	0.68

**What's Up Tonight**

**June 2008**

**Highlights**

Date	Events	Sun		Moon		
		Rise	Set	Rise	Set	Phase
<b>Wednesday July 16</b>	<b>Jupiter 2.9°N of The Moon 09:24 (July 17)</b> In constellation Sagittarius Jupiter magnitude -2.57	05:56	21:00	20:18	03:55	0.99
<b>Sunday July 20</b>	<b>Neptune 0.6°S of The Moon 10:44</b> In constellation Capricornus Neptune magnitude 7.84	06:00	20:56	22:14	08:16	0.96

Date	Events	Sun		Moon		
		Rise	Set	Rise	Set	Phase
Sunday June 1		05:44	20:57	03:37	18:49	0.07
Monday June 2		05:43	20:57	04:13	20:12	0.02
Tuesday June 3	<b>New Moon 14:22</b>	05:43	20:58	05:00	21:30	0.00
Wednesday June 4		05:42	20:59	06:00	22:37	0.02
Thursday June 5		05:42	21:00	07:12	23:28	0.06
Friday June 6		05:42	21:00	08:31		0.13
Saturday June 7	<b>Mercury at inferior conjunction 14:48</b>  <b>Mars 2.0°N of The Moon 22:36</b> Altitude 09°, Azimuth 282° In constellation Cancer	05:41	21:01	09:50	00:07	0.22
Sunday June 8	<b>Regulus 2.4°N of The Moon 22:47</b> Altitude 12°, Azimuth 271° In constellation Leo Regulus magnitude 1.40  <b>Venus at superior conjunction 23:39</b>	05:41	21:01	11:06	00:37	0.33
Monday June 9	<b>Saturn 3.9°N of The Moon 04:34</b> In constellation Leo Saturn magnitude 0.71	05:41	21:02	12:17	01:01	0.43
Tuesday June 10	<b>First Quarter of Moon 10:04</b>	05:41	21:03	13:25	01:22	0.54
Wednesday June 11		05:41	21:03	14:30	01:41	0.64
Thursday June 12		05:41	21:04	15:35	02:00	0.73

Date	Events	Sun		Moon		
		Rise	Set	Rise	Set	Phase
<b>Friday June 13</b>	<b>Spica 3.3°N of The Moon 06:10</b> In constellation Virgo Spica magnitude 1.03	05:40	21:04	16:39	02:20	0.82
<b>Saturday June 14</b>	<b>Uranus at quadrature 12:54</b> Uranus in constellation Aquarius Magnitude 5.84  <b>Mars says "Cheese"</b> On this date in 1965, the US launched Mariner 4 took the first close-up images of Mars.	05:40	21:05	17:44	02:43	0.89
<b>Sunday June 15</b>		05:40	21:05	18:48	03:09	0.94
<b>Monday June 16</b>	<b>Graffias 6.3°N of The Moon 12:41</b> In constellation Scorpius Graffias magnitude 2.59  <b>Antares 1.1°N of The Moon 01:01 (June 17)</b> Altitude 14°, Azimuth 205° In constellation Scorpius Antares magnitude 1.29  <b>First Woman In Space</b> On this date in 1963, Valentina Tereshkova became the first woman in space, and the only woman to solo in space, aboard the USSR launched Vostok 6.	05:40	21:05	19:49	03:41	0.98
<b>Tuesday June 17</b>		05:41	21:06	20:47	04:20	0.98
<b>Wednesday June 18</b>	<b>Full Moon Jun 18 13:31</b>  <b>Pluto 10.7°N of The Moon 16:39</b> In constellation Sagittarius Pluto magnitude 13.92  <b>First American Woman in Space</b> On this date in 1983, Sally Ride became first American woman in space aboard the US launched Challenger.	05:41	21:06	21:37	05:07	1.00

Date	Events	Sun		Moon		
		Rise	Set	Rise	Set	Phase
<b>Thursday</b> <b>June 19</b>		05:41	21:06	22:19	06:02	1.00
<b>Friday</b> <b>June 20</b>	<p><b>Jupiter 2.8°N of The Moon 09:56</b> In constellation Sagittarius Jupiter magnitude -2.53</p> <p><b>Pluto at opposition 15:22</b> Pluto in constellation Sagittarius Magnitude 13.92</p> <p><b>Summer Solstice 19:59</b> Earth-Sun distance 152028935km Angular size of Sun 31'28" First time since 1896 that Summer Solstice has fallen on June 20.</p>	05:41	21:06	22:54	07:04	0.98
<b>Saturday</b> <b>June 21</b>		05:41	21:07	23:23	08:10	0.94
<b>Sunday</b> <b>June 22</b>	<p><b>Double Shadow Transit on Jupiter 23:00</b> Shadows of Ganymede and Europa cross the face of Jupiter</p> <p><b>Charon Joins Pluto</b> On this date in 1978, James Christy of the US Naval Observatory discovered Charon, Pluto's largest, and until recently, only known moon.</p>	05:41	21:07	23:47	09:17	0.88
<b>Monday</b> <b>June 23</b>	<p><b>Neptune 0.0°S of The Moon 03:52 – !!! OCCULTATION !!!</b> Altitude 32°, Azimuth 173° In constellation Capricornus Neptune magnitude 7.86</p>	05:42	21:07		10:24	0.81
<b>Tuesday</b> <b>June 24</b>		05:42	21:07	00:08	11:32	0.72
<b>Wednesday</b> <b>June 25</b>	<p><b>Uranus 3.7°S of The Moon 13:50</b> In constellation Pisces Uranus magnitude 5.82</p>	05:42	21:07	00:29	12:41	0.62

Date	Events	Sun		Moon		
		Rise	Set	Rise	Set	Phase
Thursday June 26	<p><b>Last Quarter of Moon 08:12</b></p> <p><b>Charles Messier Born</b> On this date in 1730, Charles Messier was born. Despite his efforts to discover comets, Messier is best known for his list of "things which aren't comets". The "Messier Marathon", a hunt of faint fuzzies in March is now something of a right of passage for amateur astronomers.</p>	05:43	21:07	00:49	13:52	0.51
Friday June 27		05:43	21:07	01:11	15:06	0.39
Saturday June 28		05:44	21:07	01:36	16:24	0.28
Sunday June 29		05:44	21:07	02:07	17:45	0.18
Monday June 30	<p><b>Occultation of Pleiades by the The Moon 02:33</b> In constellation Taurus Pleiades magnitude 1.20</p>	05:45	21:07	02:47	19:05	0.09
Tuesday July 1	<p><b>Mercury greatest elongation W.(21°) 13:38</b> morning apparition very low on the horizon. Not an easy one to see. Magnitude 0.55</p>	05:45	21:07	03:39	20:16	0.03
Wednesday July 2	<p><b>New Moon 22:18</b></p>	05:46	21:06	04:45	21:15	0.00
Thursday July 3		05:46	21:06	06:02	22:00	0.01
Friday July 4	<p><b>Crabby Birthday ☹</b> On this day in 1054 AD, a star exploded in the constellation of Taurus. This event was observed and recorded by Chinese and Japanese astronomers, and possibly the Anasazi as well. Today, the remnants of this great explosion can be seen in Taurus as M1, the fuzzy we call the Crab Nebula.</p> <p><b>Earth at aphelion 03:39</b> Earth-Sun distance 152104160km Angular size of Sun 31'27"</p>	05:47	21:06	07:23	22:35	0.04
Saturday July 5		05:47	21:06	08:43	23:02	0.10

Date	Events	Sun		Moon		
		Rise	Set	Rise	Set	Phase
<b>Sunday</b> July 6	<b>Newton Publishes Principia</b> On this date in 1687, Isaac Newton's Principia Mathematica was published. Newton's work led the way for modern physics.	05:48	21:05	09:58	23:25	0.18
<b>Monday</b> July 7		05:49	21:05	11:09	23:45	0.28
<b>Tuesday</b> July 8		05:50	21:04	12:17		0.38
<b>Wednesday</b> July 9	<b>Jupiter at opposition 03:27</b> Jupiter in constellation Sagittarius Magnitude -2.58	05:50	21:04	13:24	00:04	0.48
<b>Thursday</b> July 10	<b>First Quarter of Moon 00:35</b>  <b>Spica 3.2°N of The Moon 12:02</b> In constellation Virgo Spica magnitude 1.03	05:51	21:03	14:29	00:24	0.58
<b>Friday</b> July 11	<b>Saturn 0.7°N of Mars 02:25</b> In constellation Leo Saturn magnitude 0.76 Mars magnitude 1.68	05:52	21:03	15:34	00:46	0.68
<b>Saturday</b> July 12		05:53	21:02	16:39	01:11	0.76
<b>Sunday</b> July 13	<b>Graffias 6.9°N of The Moon 20:19</b> Altitude 16°, Azimuth 157° In constellation Scorpius Graffias magnitude 2.59	05:53	21:02	17:41	01:41	0.84
<b>Monday</b> July 14	<b>Antares 0.6°N of The Moon 08:32</b> In constellation Scorpius Antares magnitude 1.29	05:54	21:01	18:40	02:17	0.91
<b>Tuesday</b> July 15		05:55	21:00	19:33	03:02	0.95
<b>Wednesday</b> July 16	<b>Jupiter 2.9°N of The Moon 09:24 (July 17)</b> In constellation Sagittarius Jupiter magnitude -2.57	05:56	21:00	20:18	03:55	0.99
<b>Thursday</b> July 17		05:57	20:59	20:55	04:55	0.99

Date	Events	Sun		Moon		
		Rise	Set	Rise	Set	Phase
Friday July 18	<b>Full Moon 03:59</b>	05:58	20:58	21:26	06:00	1.00
Saturday July 19		05:59	20:57	21:52	07:08	0.99
Sunday July 20	<p><b>One Small Step</b> On this date in 1969, Neil Armstrong and Buzz Aldrin became the first humans to set foot on another world, the Moon. They hitched a ride on Apollo 11.</p> <p><b>And Another</b> Also on this date in 1976, Viking 1 set down on Mars and returned the first images from the surface.</p> <p><b>Neptune 0.6°S of The Moon 10:44</b> In constellation Capricornus Neptune magnitude 7.84</p>	06:00	20:56	22:14	08:16	0.96
Monday July 21		06:01	20:56	22:35	09:24	0.91
Tuesday July 22	<p><b>Uranus 3.5°S of The Moon 17:24</b> In constellation Pisces Uranus magnitude 5.78</p>	06:02	20:55	22:54	10:32	0.76
Wednesday July 23		06:03	20:54	23:15	11:43	0.75
Thursday July 24		06:04	20:53	23:39	12:55	0.65
Friday July 25	<b>Last Quarter of Moon 14:44</b>	06:05	20:52		14:10	0.54
Saturday July 26		06:06	20:51	00:06	15:27	0.42
Sunday July 27	<p><b>Pleiades 0.7°S of The Moon 13:04</b> Altitude 34°, Azimuth 272° In constellation Taurus Pleiades magnitude 1.20</p>	06:07	20:50	00:41	16:45	0.31

Date	Events	Sun		Moon		
		Rise	Set	Rise	Set	Phase
<b>Monday July 28</b>	<p><b>Meteor shower Delta Aquarids</b> Parent body unknown Radiant at maximum RA 22h 36m, Dec -17 deg Active dates 15 Jul - 19 Aug Average zenithal hourly rate at maximum 20</p> <p><b>Hyades 9.9°S of The Moon 02:30</b> Altitude 08°, Azimuth 061° In constellation Taurus Hyades magnitude 0.50</p> <p><b>Aldebaran 9.9°S of The Moon 05:42</b> Altitude 40°, Azimuth 090° In constellation Taurus Aldebaran magnitude 0.87</p>	06:08	20:49	01:27	17:58	0.20
<b>Tuesday July 29</b>	<p><b>NASA Founded</b> On this date in 1958, the National Aeronautics and Space Administration, NASA, founded.</p> <p><b>Mercury at superior conjunction 07:03</b></p>	06:09	20:47	02:25	19:01	0.11
<b>Wednesday July 30</b>		06:10	20:46	03:36	19:52	0.04
<b>Thursday July 31</b>		06:11	20:45	04:55	20:30	0.01

## June 15, 2008

	RA(J2000)	Dec(J2000)	Constellation	Magnitude	Rise	Transit	Set
Sun	05h 35.243m	23° 18.836'	Taurus	-26.86	05:40	13:22	21:04
Mercury	04h 50.900m	18° 14.686'	Taurus	3.37	05:25	12:40	19:55
Venus	05h 42.323m	23° 39.533'	Taurus	-3.91	05:47	13:29	21:11
Mars	09h 32.084m	16° 00.017'	Leo	1.57	10:13	17:19	00:25
Jupiter	19h 27.651m	-22° 02.836'	Sagittarius	-2.65	22:41	03:14	07:47
Saturn	10h 22.790m	11° 57.166'	Leo	0.75	11:22	18:11	00:59
Uranus	23h 33.592m	-03° 41.555'	Aquarius	5.84	01:31	07:19	13:08
Neptune	21h 45.821m	-13° 49.415'	Capricornus	7.86	00:23	05:32	10:40

## July 1, 2008

	RA(J2000)	Dec(J2000)	Constellation	Magnitude	Rise	Transit	Set
Sun	06h 41.694m	23° 05.414'	Gemini	-26.86	05:45	13:25	21:06
Mercury	05h 09.255m	19° 38.410'	Taurus	0.55	04:30	11:53	19:17
Venus	07h 08.187m	23° 22.898'	Gemini	-3.91	06:10	13:51	21:32
Mars	10h 08.366m	12° 41.145'	Leo	1.64	10:00	16:53	23:45
Jupiter	19h 19.754m	-22° 20.998'	Sagittarius	-2.71	21:32	02:03	06:34
Saturn	10h 27.624m	11° 27.856'	Leo	0.80	10:26	17:12	23:59
Uranus	23h 33.783m	-03° 40.979'	Aquarius	5.81	00:28	06:17	12:05
Neptune	21h 44.955m	-13° 54.180'	Capricornus	7.85	23:20	04:28	09:36

## July 15, 2008

	RA(J2000)	Dec(J2000)	Constellation	Magnitude	Rise	Transit	Set
Sun	07h 39.014m	21° 29.224'	Gemini	-26.86	05:54	13:28	21:01
Mercury	06h 30.921m	22° 52.013'	Gemini	-0.88	04:39	12:18	19:57
Venus	08h 21.642m	20° 44.438'	Cancer	-3.90	06:41	14:10	21:38
Mars	10h 40.077m	09° 29.545'	Leo	1.68	09:50	16:29	23:08
Jupiter	19h 12.086m	-22° 36.874'	Sagittarius	-2.72	20:31	01:01	06:34
Saturn	10h 32.743m	10° 57.095'	Leo	0.82	09:38	16:22	23:07
Uranus	23h 33.333m	-03° 44.420'	Aquarius	5.78	23:33	05:21	11:09
Neptune	21h 43.864m	-14° 00.008'	Capricornus	7.84	22:24	03:32	08:40

GRS Transit		Sun		Jupiter	
Date	Time	Rise	Set	Rise	Set
2008-06-01	02:37	05:44	20:57	23:37	08:48
2008-06-03	04:15	05:43	20:58	23:28	08:40
2008-06-04	00:06	05:42	20:59	23:24	08:35
2008-06-06	01:44	05:42	21:00	23:16	08:27
2008-06-08	03:22	05:41	21:01	23:07	08:18
2008-06-08	23:14	05:41	21:02	23:07	08:18
2008-06-11	00:52	05:41	21:03	22:55	08:05
2008-06-13	02:29	05:40	21:04	22:46	07:56
2008-06-15	04:07	05:40	21:05	22:37	07:47
2008-06-15	23:59	05:40	21:05	22:37	07:47
2008-06-18	01:36	05:41	21:06	22:25	07:34
2008-06-20	03:14	05:41	21:06	22:16	07:25
2008-06-20	23:06	05:41	21:07	22:16	07:25
2008-06-23	00:43	05:42	21:07	22:03	07:11
2008-06-25	02:21	05:42	21:07	21:54	07:02
2008-06-25	22:13	05:43	21:07	21:54	07:02
2008-06-27	03:59	05:43	21:07	21:46	06:53
2008-06-27	23:50	05:44	21:07	21:46	06:53
2008-06-30	01:28	05:45	21:07	21:32	06:39
2008-07-02	03:06	05:46	21:06	21:24	06:30
2008-07-02	22:57	05:46	21:06	21:24	06:30
2008-07-04	04:44	05:47	21:06	21:15	06:21
2008-07-05	00:35	05:47	21:06	21:11	06:17

GRS Transit		Sun		Jupiter	
Date	Time	Rise	Set	Rise	Set
2008-07-07	02:13	05:49	21:05	21:02	06:08
2008-07-07	22:04	05:50	21:04	21:02	06:08
2008-07-09	03:51	05:50	21:04	20:53	05:58
2008-07-09	23:42	05:51	21:03	20:53	05:58
2008-07-12	01:20	05:53	21:02	20:40	05:45
2008-07-12	21:12	05:53	21:02	20:40	05:45
2008-07-14	02:58	05:54	21:01	20:31	05:36
2008-07-14	22:50	05:55	21:00	20:31	05:36
2008-07-16	04:36	05:56	21:00	20:22	05:26
2008-07-17	00:27	05:57	20:59	20:18	05:22
2008-07-17	20:19	05:58	20:58	20:18	05:22
2008-07-19	02:05	05:59	20:57	20:09	05:13
2008-07-19	21:57	06:00	20:56	20:09	05:13
2008-07-21	03:44	06:01	20:56	20:00	05:04
2008-07-21	23:35	06:02	20:55	20:00	05:04
2008-07-24	01:13	06:04	20:53	19:48	04:50
2008-07-24	21:04	06:05	20:52	19:48	04:50
2008-07-26	02:51	06:06	20:51	19:39	04:41
2008-07-26	22:42	06:07	20:50	19:39	04:41
2008-07-29	00:20	06:09	20:47	19:26	04:28
2008-07-29	20:12	06:10	20:46	19:26	04:28
2008-07-31	01:58	06:11	20:45	19:17	04:19
2008-07-31	21:50	06:12	20:44	19:17	04:19

Name	Start Time (Local)		End Time (Local)	
	Date	Time	Date	Time
Io Shadow Transit	2008-Jun-06	00:46	2008-Jun-06	03:06
Io Transit	2008-Jun-06	01:34	2008-Jun-06	03:53
Io Occultation	2008-Jun-06	22:46	2008-Jun-07	01:07
Europa Occultation	2008-Jun-06	22:38	2008-Jun-07	01:30
Callisto Occultation	2008-Jun-07	21:39	2008-Jun-08	01:40
Io Transit	2008-Jun-13	03:18	2008-Jun-13	05:40
Io Occultation	2008-Jun-14	00:33	2008-Jun-14	02:52
Europa Occultation	2008-Jun-14	00:57	2008-Jun-14	03:49
Io Transit	2008-Jun-14	21:45	2008-Jun-15	00:06
Callisto Shadow Transit	2008-Jun-15	22:05	2008-Jun-16	02:02
Callisto Transit	2008-Jun-16	03:21	2008-Jun-16	07:18
Io Shadow Transit	2008-Jun-20	04:37	2008-Jun-20	06:56
Io Eclipse	2008-Jun-21	01:49	2008-Jun-21	04:10
Io Occultation	2008-Jun-21	02:16	2008-Jun-21	04:35
Europa Eclipse	2008-Jun-21	02:21	2008-Jun-21	05:13
Europa Occultation	2008-Jun-21	03:14	2008-Jun-21	06:06
Io Shadow Transit	2008-Jun-21	23:06	2008-Jun-22	01:25
Io Transit	2008-Jun-21	23:30	2008-Jun-22	01:50
Europa Shadow Transit	2008-Jun-22	20:58	2008-Jun-22	23:47
Europa Transit	2008-Jun-22	21:45	2008-Jun-23	00:35
Ganymede Shadow Transit	2008-Jun-22	22:35	2008-Jun-23	02:01
Ganymede Transit	2008-Jun-23	00:12	2008-Jun-23	03:38
Io Eclipse	2008-Jun-28	03:43	2008-Jun-28	06:02
Io Occultation	2008-Jun-28	04:00	2008-Jun-28	06:20
Io Shadow Transit	2008-Jun-29	01:00	2008-Jun-29	03:19
Io Transit	2008-Jun-29	01:15	2008-Jun-29	03:34
Io Eclipse	2008-Jun-29	22:12	2008-Jun-30	00:31
Io Occultation	2008-Jun-29	22:24	2008-Jun-30	00:46
Europa Transit	2008-Jun-29	23:59	2008-Jun-30	02:46
Ganymede Shadow Transit	2008-Jun-30	02:33	2008-Jun-30	06:02
Ganymede Transit	2008-Jun-30	03:28	2008-Jun-30	06:54

Name	Start Time (Local)		End Time (Local)	
	Date	Time	Date	Time
Io Occultation	2008-Jul-07	00:09	2008-Jul-07	02:28
Europa Shadow Transit	2008-Jul-07	02:06	2008-Jul-07	04:55
Europa Transit	2008-Jul-07	02:13	2008-Jul-07	05:00
Io Shadow Transit	2008-Jul-07	21:23	2008-Jul-07	23:42
Io Transit	2008-Jul-07	21:23	2008-Jul-07	23:45
Europa Eclipse	2008-Jul-08	20:52	2008-Jul-08	23:47
Europa Occultation	2008-Jul-08	20:55	2008-Jul-08	23:47
Ganymede Occultation	2008-Jul-10	20:24	2008-Jul-10	23:50
Ganymede Eclipse	2008-Jul-10	20:33	2008-Jul-11	00:01
Callisto Occultation	2008-Jul-11	02:30	2008-Jul-11	06:28
Callisto Eclipse	2008-Jul-11	02:54	2008-Jul-11	07:00
Io Occultation	2008-Jul-14	01:52	2008-Jul-14	04:11
Io Eclipse	2008-Jul-14	02:00	2008-Jul-14	04:19
Io Transit	2008-Jul-14	23:07	2008-Jul-15	01:28
Io Shadow Transit	2008-Jul-14	23:17	2008-Jul-15	01:36
Io Occultation	2008-Jul-15	20:19	2008-Jul-15	22:38
Europa Occultation	2008-Jul-15	23:11	2008-Jul-16	02:01
Europa Eclipse	2008-Jul-15	23:31	2008-Jul-16	02:24
Ganymede Occultation	2008-Jul-17	23:39	2008-Jul-18	03:05
Ganymede Eclipse	2008-Jul-18	00:32	2008-Jul-18	04:03
Io Occultation	2008-Jul-21	03:37	2008-Jul-21	05:56
Io Transit	2008-Jul-22	00:51	2008-Jul-22	03:13
Io Shadow Transit	2008-Jul-22	01:11	2008-Jul-22	03:33
Io Occultation	2008-Jul-22	22:03	2008-Jul-23	00:22
Io Eclipse	2008-Jul-22	22:23	2008-Jul-23	00:42
Europa Occultation	2008-Jul-23	01:25	2008-Jul-23	04:17
Europa Eclipse	2008-Jul-23	02:08	2008-Jul-23	05:02
Io Shadow Transit	2008-Jul-23	19:40	2008-Jul-23	21:59
Europa Transit	2008-Jul-24	19:47	2008-Jul-24	22:37
Europa Shadow Transit	2008-Jul-24	20:32	2008-Jul-24	23:22
Ganymede Occultation	2008-Jul-25	02:58	2008-Jul-25	06:24
Callisto Eclipse	2008-Jul-27	20:57	2008-Jul-28	01:09
Io Shadow Transit	2008-Jul-29	03:08	2008-Jul-29	05:27
Io Eclipse	2008-Jul-30	00:17	2008-Jul-30	02:37
Io Transit	2008-Jul-30	21:04	2008-Jul-30	23:24
Io Shadow Transit	2008-Jul-30	21:37	2008-Jul-30	23:56
Europa Transit	2008-Jul-31	22:01	2008-Aug-01	00:51
Europa Shadow Transit	2008-Jul-31	23:06	2008-Aug-01	01:58

**References:**

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The Beginner's Observing Guide  
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Free Skymaps for each month  
<http://www.skymaps.com/>

North American Skies Astronomical Calendar  
<http://home.comcast.net/~sternmann/cal.htm>

Chabot Space & Science Centre Virtual Planetarium Sky Calendar  
<http://chabotspace.org/vsc/planetarium/skycalendar/default.asp>

NASA / Goddard Space Flight Centre Eclipse Homepage  
<http://sunearth.gsfc.nasa.gov/eclipse/eclipse.html>

**Software:**

Redshift 5  
Maris Multimedia Ltd.

Starry Night Pro 6  
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Jupiter 2  
<http://www.astrosurf.org/rondi/jupiter>