



First Light

The Newsletter of the Cape Cod Astronomical Society



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Mooncusser's 21st Century Almanac By Jim Carlson

First Quarter – Wed. August 02 at 04:47 EDT
Full Moon – Wed. August 09 at 06:54 EDT
Last Quarter – Tue. August 15 at 21:52 EDT
New Moon – Wed. August 23 at 15:11 EDT

Object	August 01 (EDT)	August 15 (EDT)	August 30 (EDT)
Sun	R: 05:33 S: 19:59	05:49 19:40	06:04 19:17
Mercury	R: 04:22 S: 18:47	04:26 18:58	05:53 19:21
Venus	R: 03:39 S: 18:40	04:09 18:47	04:44 18:43
Moon	R: 11:47 S: 22:46	22:55 13:23	12:50 22:05
Mars	R: 07:54 S: 21:15	07:44 20:37	07:33 19:59
Jupiter	R: 13:23 S: 23:46	12:31 22:50	11:42 21:56
Saturn	R: 06:04 S: 20:18	05:15 19:24	04:25 18:30
Uranus	R: 21:27 S: 08:45	20:27 07:43	19:26 06:41
Neptune	R: 20:21 S: 06:36	19:21 05:35	18:21 04:34
Pluto	R: 16:35 S: 02:47	15:35 01:46	14:36 00:43

August 2006 Events (UT)

- 01 – Spica 0.4° north of the Moon at 1:00 UT (subtract 4 hours for EDT, which is 21:00 EDT July 31st).
- 02 – Jupiter 5° north of the Moon.
- 03 – Venus at ascending node.
- 04 – Antares 0.4° north of the Moon at 04:18 UT.
- 05 – Asteroid (6) Hebe at opposition.
- 06 – Mercury 9° south of Pollux.
- 07 – Mercury at greatest western elongation rising before the Sun in the a.m. Saturn in conjunction with the Sun.
- 08 – Venus 7° south of Pollux at 07:00 UT.
- 09 – Neptune 3° north of the Moon at 12:00 UT.
- 10 – Mercury 2° from Venus at 21:00 UT.
- 11 – Neptune at opposition. Uranus 0.3° north of the Moon at 06:00 UT.
- 12 – Asteroid (1) Ceres at opposition. Perseid meteors peak at around 23:00 UT (subtract 4 hours for EDT).
- 13 – Mercury at descending node.

- 14 – Double shadow transit of Io and Europa on Jupiter in progress at around 07:03 UT.
- 16 – Mercury 1° south of M44. Moon 0.6° north of M45.
- 17 – Mercury at perihelion.
- 19 – Venus 1° south of M44.
- 21 – Double shadow transit of Io and Europa on Jupiter in progress at approximately 08:57 UT. Astronomical twilight begins at 08:12 UT.
- 22 – Venus 3° south of the Moon.
- 24 – Asteroid (2) Pallas stationary.
- 25 – Mars 0.6° north of the Moon at 14:00 UT.
- 26 – Moon at apogee (252,444 miles). Venus 0.7° north of Saturn at 23:00 UT.
- 28 – Mercury at greatest northern heliocentric latitude. Spica 0.5° north of the Moon at 08:00 UT.
- 30 – Jupiter 5° north of the Moon at 01:00 UT (21:00 EDT July 29).

Sources: TheSky6, Software Bisque
Observer's Handbook 2006, Royal Astronomical Society of Canada

The times of rise, transit, and set are for the days listed. On August 1st, for example, Neptune will set at 06:36 EDT and rise at 20:21 EDT.

August 3rd CCAS Meeting

The speaker for the evening will be Larry Marschall, professor of physics and astronomy at Gettysburg College. We will meet for dinner at 5:30 at the Hearth 'N Kettle in *Orleans*, not S. Yarmouth. The title of Larry's talk is "The Mystery of Algol, the Demon Star.". This will be Larry's fourth presentation to CCAS, at least by my memory. Not only is he a knowledgeable, well trained professional, Larry is a real good speaker. This is not an event to be missed.

Dues Are Due

Yes, it is that time of year. Your annual society dues of \$30 are due. On the first of August, they will be past due. With a membership that varies between 25 and 30, our annual revenue budget is between \$750 and \$900. That budget covers our annual liability insurance premium of about \$270. This last year it also paid for realuminizing the primary and secondary mirrors on the 14" scope,

