



Mooncusser's 21st Century Almanac By Jim Carlson

First Quarter – Mon. July 03 at 12:38 EDT
Full Moon – Mon. July 10 at 23:03 EDT
Last Quarter – Mon. July 17 at 15:14 EDT
New Moon – Tue. July 25 at 00:32 EDT

Object	July 01 (EDT)	July 15 (EDT)	July 30 (EDT)
Sun	R: 05:09 S: 20:19	05:20 20:13	05:33 19:59
Mercury	R: 07:02 S: 21:24	05:53 19:54	04:22 18:47
Venus	R: 03:12 S: 17:54	03:19 18:21	03:39 18:40
Moon	R: 10:56 S: 23:47	23:30 11:50	11:47 22:46
Mars	R: 08:15 S: 22:27	08:04 21:51	07:54 21:15
Jupiter	R: 15:15 S: 01:46	14:17 00:43	13:22 23:46
Saturn	R: 07:42 S: 22:05	06:52 21:11	06:03 20:17
Uranus	R: 23:26 S: 10:46	22:27 09:46	21:27 08:45
Neptune	R: 22:21 S: 08:37	21:21 07:37	20:21 06:36
Pluto	R: 18:35 S: 04:48	17:35 03:47	16:35 02:47

July 2006 Events (UT)

01 – Moon at apogee (251,312 miles)
03 – Earth at aphelion (94,507,886 miles).
04 – Mercury stationary and at aphelion. Spica 0.1° north of the Moon.
06 – CCAS meeting at 7:30. Dinner at 6:00 at H 'n K restaurant on Rte. 28 in S. Yarmouth. Did everybody get a mineral from long: 70° 11' 38" W, lat. 41° 40' 39 N"? Be stealthy, people are watching.
06 – Jupiter stationary and 5° north of the Moon.
08 – Antares 0.2° north of the Moon.
13 – Neptune 3° north of the Moon. Moon at perigee (226,358 miles).
14 – Uranus 0.4° north of the Moon.
18 – Mercury at inferior conjunction.
20 – Moon 0.4° north of M45. Venus 1.5° south of M35.
22 – Mars 0.7° north of Regulus.

23 – Venus 6° south of the Moon.
25 – Mercury at greatest southern heliocentric latitude.
27 – Mars 1.1° south of the Moon.
28 – Southern delta Aquarid meteors peak about 3:00 EDT. Mercury stationary.
29 – Moon at apogee (251,908 miles).

Sources: TheSky6, Software Bisque
Observer's Handbook 2006, Royal Astronomical Society of Canada
 The times of rise and set are for the days listed. On June, for example, Jupiter will set at 03:49 EDT; rise at 17:22 EDT.

July 6th CCAS Meeting

The presentation at the July 6th meeting will be a discussion of the results of the scavenger hunt. A list of items for the hunt was handed out at the June meeting. For those who did not attend that meeting, here they are again.

- 1., 2., & 3. Provide the right ascension, declination, constellation, and a sketch for M57, M51, and M106.
4. Describe Cepheus by providing a) what/who it is, b) when it is visible from Cape Cod, and c) what is its mythological significance.
5. Describe where Tycho Brahe's observatory was.
6. In 1450AD, what was considered to be the closest star to Earth?
7. What is the popular name for Brocchi's cluster?
8. Who was the Royal Astronomer during the year that Neptune was discovered?
9. Describe or find an optical diagram of a Gregorian telescope.
10. Locate W70 11' 36.9" N41 40' 42" and pickup a mineral found there.

