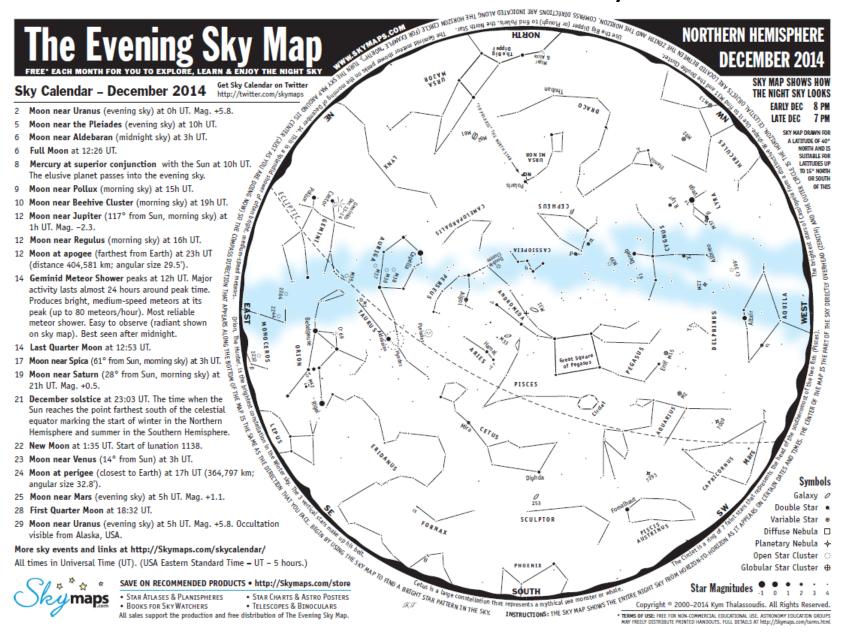


Object	Description	Magnitude	Date Observed	Notes
Capella	Binary Pair	-0.51		
M36	Open Cluster	6.3		
M37	Open Cluster	6.2		
M38	Open Cluster	7.4		
IC405	Flaming Star Nebula	6.1		



#### About the Celestial Objects

Listed on this page are several of the brighter, more interesting celestial objects visible in the evening sky this month (refer to the monthly sky map). The objects are grouped into three categories. Those that can be easily seen with the naked eye (that is, without optical aid), those easily seen with binoculars, and those requiring a telescope to be appreciated. Note, all of the objects (except single stars) will appear more impressive when viewed through a telescope or very large binoculars. They are grouped in this way to highlight objects that can be seen using the optical equipment that may be available to the star gazer.

#### Tips for Observing the Night Sky

When observing the night sky, and in particular deep-sky objects such as star clusters, nebulae, and galaxies, it's always best to observe from a dark location. Avoid direct light from street lights and other sources. If possible observe from a dark location away from the light pollution that surrounds many of today's large cities.

You will see more stars after your eyes adapt to the darkness—usually about 10 to 20 minutes after you go outside. Also, if you need to use a torch to view the sky map, cover the light bulb with red cellophane. This will preserve your dark vision.

Finally, even though the Moon is one of the most stunning objects to view through a telescope, its light is so bright that it brightens the sky and makes many of the fainter objects very difficult to see. So try to observe the evening sky on moonless nights around either New Moon or Last Quarter.

#### Astronomical Glossary

Conjunction - An alignment of two celestial bodies such that they present the least angular separation as viewed from Earth.

Constellation - A defined area of the sky containing a star pattern.

Diffuse Nebula - A cloud of gas illuminated by nearby stars.

Double Star - Two stars that appear close to each other in the sky; either linked by gravity so that they orbit each other (binary star) or lying at different distances from Earth (optical double). Apparent separation of stars is given in seconds of arc (").

Ecliptic - The path of the Sun's center on the celestial sphere as seen from Earth.

Elongation – The angular separation of two celestial bodies. For Mercury and Venus the greatest elongation occurs when they are at their most angular distance from the Sun as viewed from Earth.

Galaxy – A mass of up to several billion stars held together by gravity. Globular Star Cluster - A ball-shaped group of several thousand old stars. Light Year (ly) - The distance a beam of light travels at 300,000 km/sec in one year. Magnitude - The brightness of a celestial object as it appears in the sky. Open Star Cluster - A group of tens or hundreds of relatively young stars. Opposition - When a celestial body is opposite the Sun in the sky. Planetary Nebula - The remnants of a shell of gas blown off by a star. Universal Time (UT) - A time system used by astronomers. Also known as Greenwich Mean Time. USA Eastern Standard Time (for example, New York) is 5 hours behind UT.

### Variable Star - A star that changes brightness over a period of time.

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- 4 If you do own a telescope, would you like assistance with using it?
- Ś Which aspects of the Atlanta Astronomy Club and astronomy are you most interested in: (Check as many as you wish.)
- social
- meetings
- observing
- astrophotography/imaging
- computing
- speaker program
- having access to professional quality equipment
- Amateur Telescoping Making (ATM)
- Sidewalk Astronomy
- other
- 6 Do you have any special skills/job/occupation that might benefit the club:
- °, 7 Questions or Comments: Would you volunteer for committee work?

New member packages with badges will be mailed by the Treasurer within 2-3 weeks of receiving your membership application. The electronic *FocalPoint* is available on the Club's web site: <u>http://www.atlantaastronomy.org</u> (usually within the first week of the month.)