



Comet C/2012 S1 ISON 2013-11-03 Van Macatec



“WHAT’S UP”

A presentation of “what’s up” in the
night sky



This Month's Sky: December 2013

- **Our Solar System Tonight**
- **Target List**
- **ISON Update**
- **Great Geminids Meteor Shower**
- **Welcome Winter**
- **Bright Venus**
- **Moon/Pleiades Conjunction**
- **Monthly Lunar Feature/Name**
- **Gee Whiz Question of the Month**
- **CE Observing Challenge**



Our Solar System Tonight

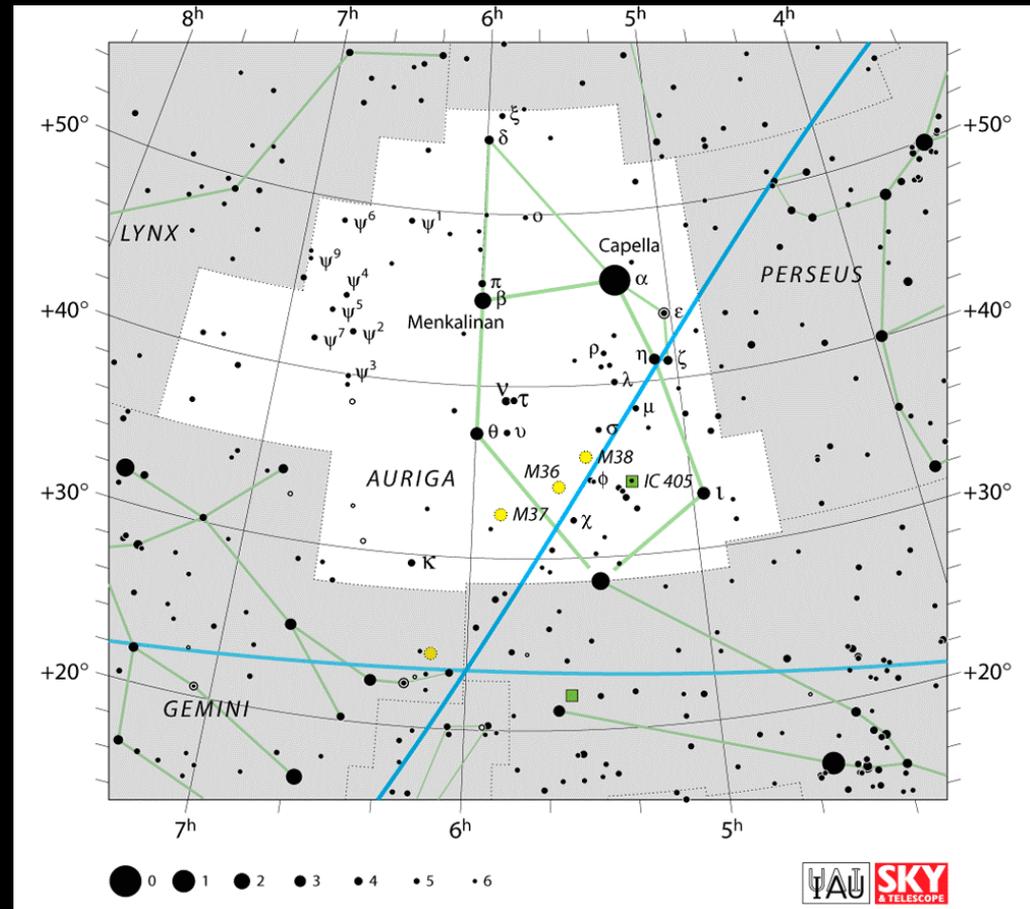
	Rises	Sets
Sun	7:26 a.m.	5:26 p.m.
Moon	11:20 a.m.	10:56 p.m.
Mercury	6:30 a.m.	4:43 p.m.
Venus	10:23 a.m.	8:15 p.m.
Mars	1:24 a.m.	1:38 p.m.
Jupiter	7:44 p.m.	9:57 a.m.
Saturn	5:12 a.m.	3:54 p.m.
Uranus	1:51 p.m.	2:13 a.m.
Neptune	12:15 p.m.	11:19 p.m.
Pluto	9:07 a.m.	7:18 p.m.



Auriga Over Charlie Elliott

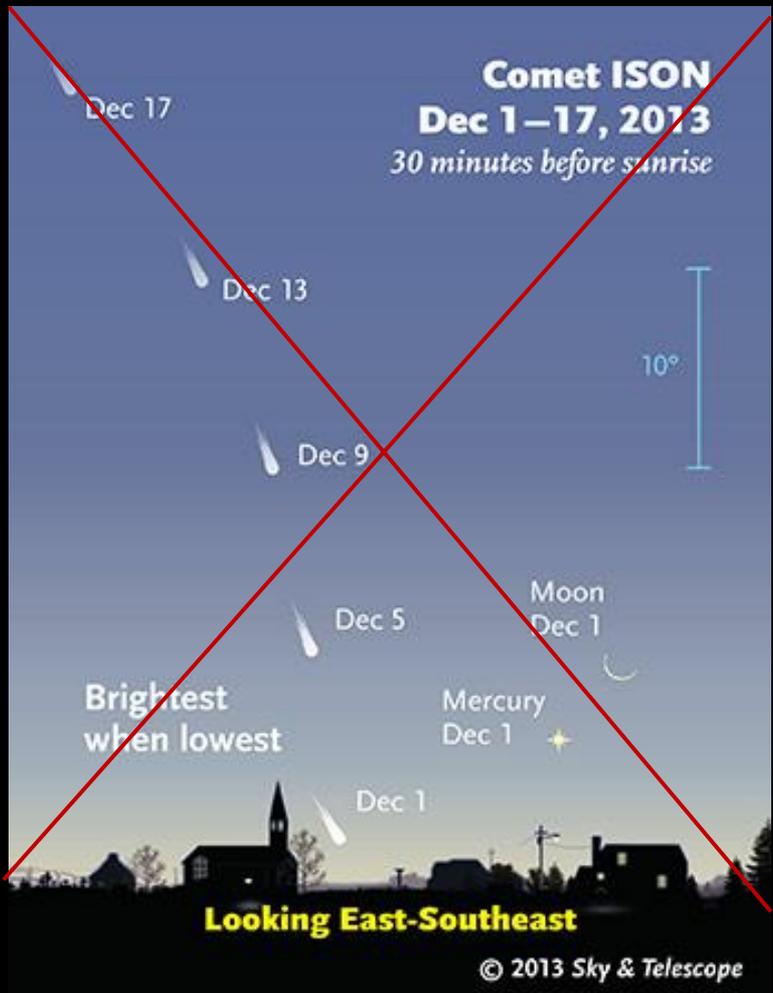
Auriga Deep Sky Objects
Visible Tonight...HAHAHAHA!
(Be sure to ask for a sky map!)

Object	Description	Magnitude
Capella	Double Binary Star	-0.51
M36	Open Cluster	6.3
M37	Open Cluster	6.2
M38	Open Cluster	7.4
IC 405	Flaming Star Nebula	6.1





ISON Update





Great Geminids Meteor Shower

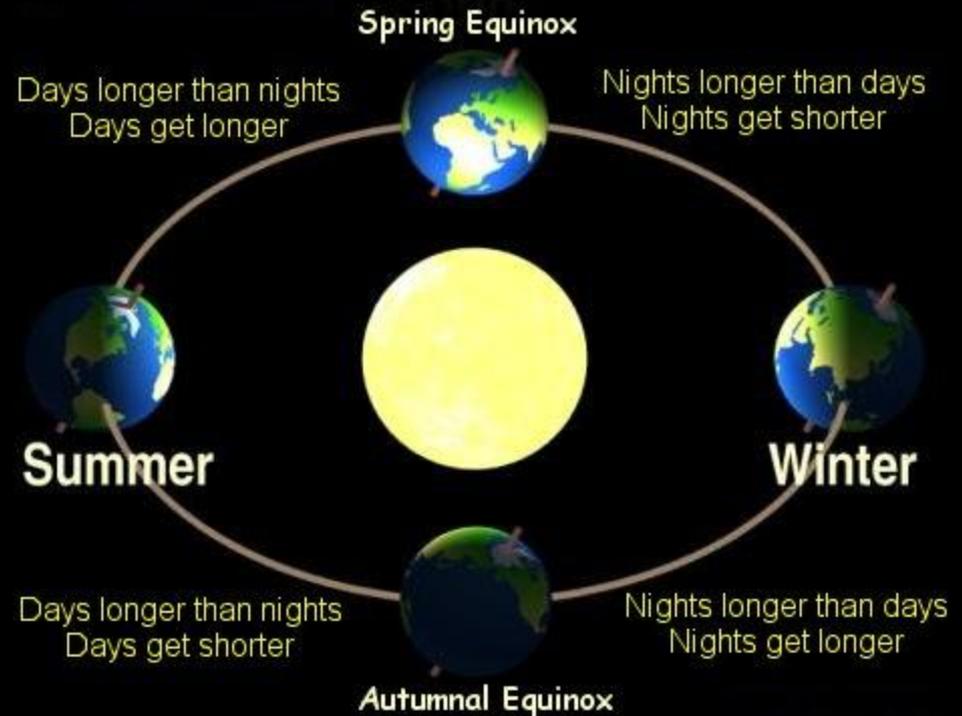
13th-14th





Hello Winter

The December solstice occurs at 17:11 UTC. The South Pole of the earth will be tilted toward the Sun, which will have reached its southernmost position in the sky and will be directly over the Tropic of Capricorn at 23.44 degrees south latitude. This is the first day of winter (winter solstice) in the Northern Hemisphere.





Bright Venus

Magnitude -4.9





Moon/Pleiades Conjunction



Date and Time

2013	/	12	/	14		19	:	0	:	0
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Monthly Lunar Feature(s)

Lunar Rays





Monthly Lunar Feature(s)

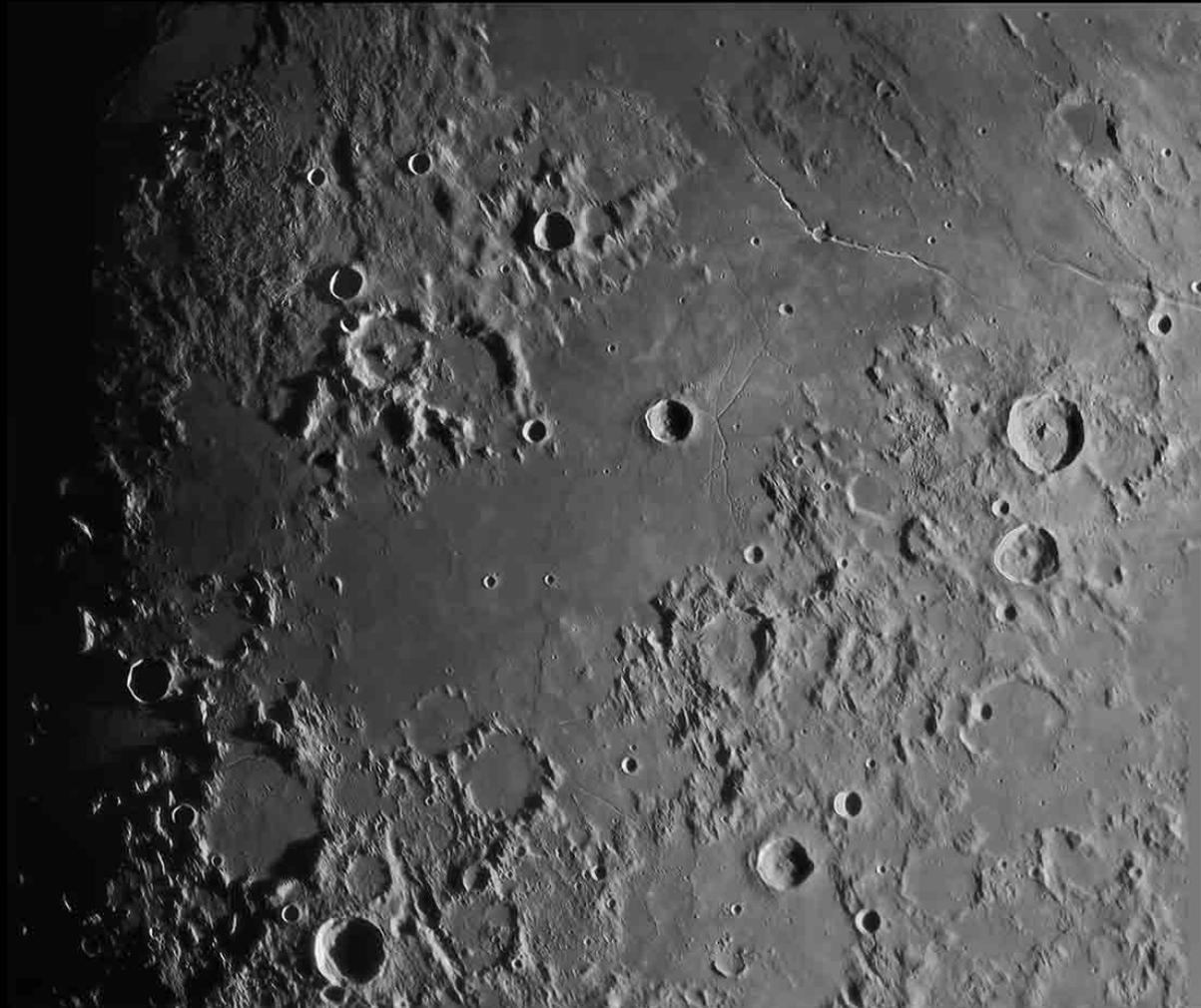
Sinus Iridium





Monthly Lunar Feature(s)

Sinus Medii





Monthly Lunar Feature(s)

Sinus Roris





Monthly Full Moon Name

The November Full Moon is known as the Full Cold Moon. No explanation necessary!





Gee Whiz Question(s) of the Month

Which of the 8 planets has no moons?
Mercury



Gee Whiz Question(s) of the Month

How long is 1 Mercurian day?

180 Earth Days

How long is 1 Mercurian Year?

88 Earth days



Gee Whiz Question(s) of the Month

What is the largest planet in our solar system?

Jupiter



Gee Whiz Question(s) of the Month

How long is 1 Jovian day?

9.9 Earth Hours

How long is 1 Jovian Year?

11.6 Earth Years



Gee Whiz Question(s) of the Month

What is the only planet that rotates clockwise? Why?

Venus



Gee Whiz Question(s) of the Month

How long is 1 Venusian day?

243 Earth Days

How long is 1 Venusian Year?

224.7 Earth Days



CE Observing Challenge

Barnard's Loop

- Bright Nebula (HA!) in Orion
- Magnitude 10.0
- Right Ascension: 05h 48m 43.78s
- Declination: 01° 00' 06.4"

ENJOY!!



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Next Meeting

January 4th, 3:30 p.m.



Useful Websites

- Stellarium for Windows
- SkySafari for Android
- Sky and Telescope:
<http://www.skyandtelescope.com>
- Farmers Almanac:
<http://www.almanac.com/astronomy>
- Night Sky Network: <http://bit.ly/NSN-CEA>
- CEA Facebook page: <http://bit.ly/CEAAstronomy>