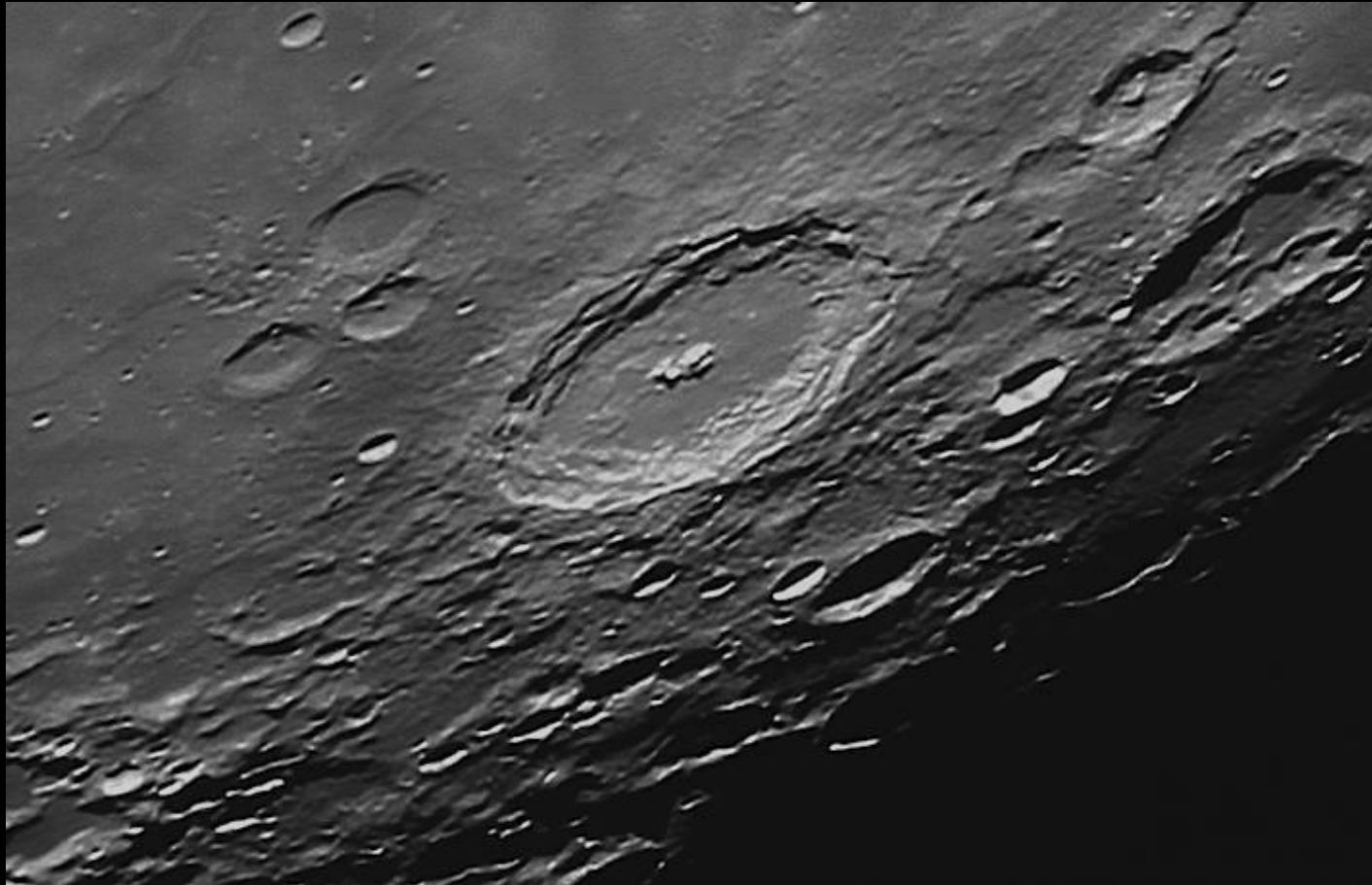




HAPPY NEW YEAR!!!!





“WHAT’S UP”

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



This Month's Sky: January 2014

- **Our Solar System Tonight**
- **Target List**
- **Great Jupiter!**
- **Moon Visits 3 Planets**
- **Monthly Lunar Features/Name**
- **Gee Whiz Question of the Month**
- **CE Observing Challenge**



Our Solar System Tonight

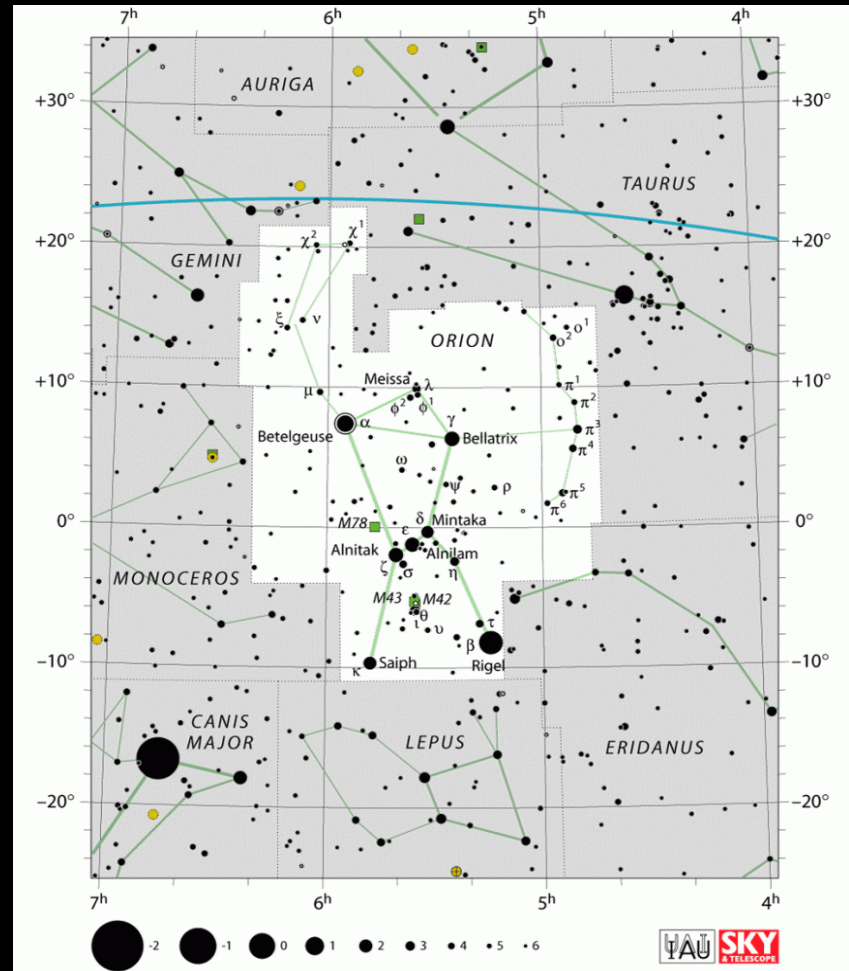
	Rises	Sets
Sun	7:39 a.m.	5:40 p.m.
Moon	9:56 a.m.	9:46 p.m.
Mercury	8:03 a.m.	5:52 p.m.
Venus	8:10 a.m.	6:37 p.m.
Mars	12:37 a.m.	12:25 p.m.
Jupiter	5:38 p.m.	7:54 a.m.
Saturn	3:35 a.m.	2:13 p.m.
Uranus	12:01 p.m.	12:23 a.m.
Neptune	10:27 a.m.	9:32 p.m.
Pluto	7:21 a.m.	5:32 p.m.



Orion Over Charlie Elliott

Orion Deep Sky Objects
Visible Tonight this month
(Be sure to ask for a sky map!)

Object	Description	Magnitude
IC 434	Horsehead Nebula	6.8*
M42	Orion Nebula	4.0
Mintaka	Double Star	-4.0
NGC 2024	Flame Nebula	2.0*
M78	Emission Nebula	8.3





Great Jupiter

Opposition: January 5th

Date and Time

2014 / 1 / 4 21 : 30 : 0

Date and Time

2014 / 1 / 5 0 : 0 : 0

Amalthea
Metis
Jupiter

Full-screen mode [F11]
Earth, Mansfield, GA, 38m FOV 0.0245° 43.4 FPS 2014-01-05 00:00:00

E





Moon and Jupiter

4.5 Degrees Separation

Date and Time

2014 / 1 / 14 20 : 0 : 0



Date and Time

2014 / 1 / 14 20 : 0 : 0

Earth, Mansfield, GA, 38m FOV 4.37° 61.6 FPS 2014-01-14 20:00:00

This inset window provides a magnified view of the Moon and Jupiter. The Moon is shown as a large, detailed sphere with visible craters, and Jupiter is a smaller, bright white dot to its right. A small 'E' is visible below the inset.



Moon and Mars

3 Degrees Separation

Date and Time

2014 / 1 / 23 2 : 0 : 0

Date and Time

2014 / 1 / 23 2 : 0 : 0

Arcturus

Mars

Moon (x4)

Vesta

Spica

Full-screen mode [F11]

Earth, Mansfield, GA, 38m FOV 10.1° 57.7 FPS 2014-01-23 02:00:00



Moon and Saturn

.3 Degrees Separation



E



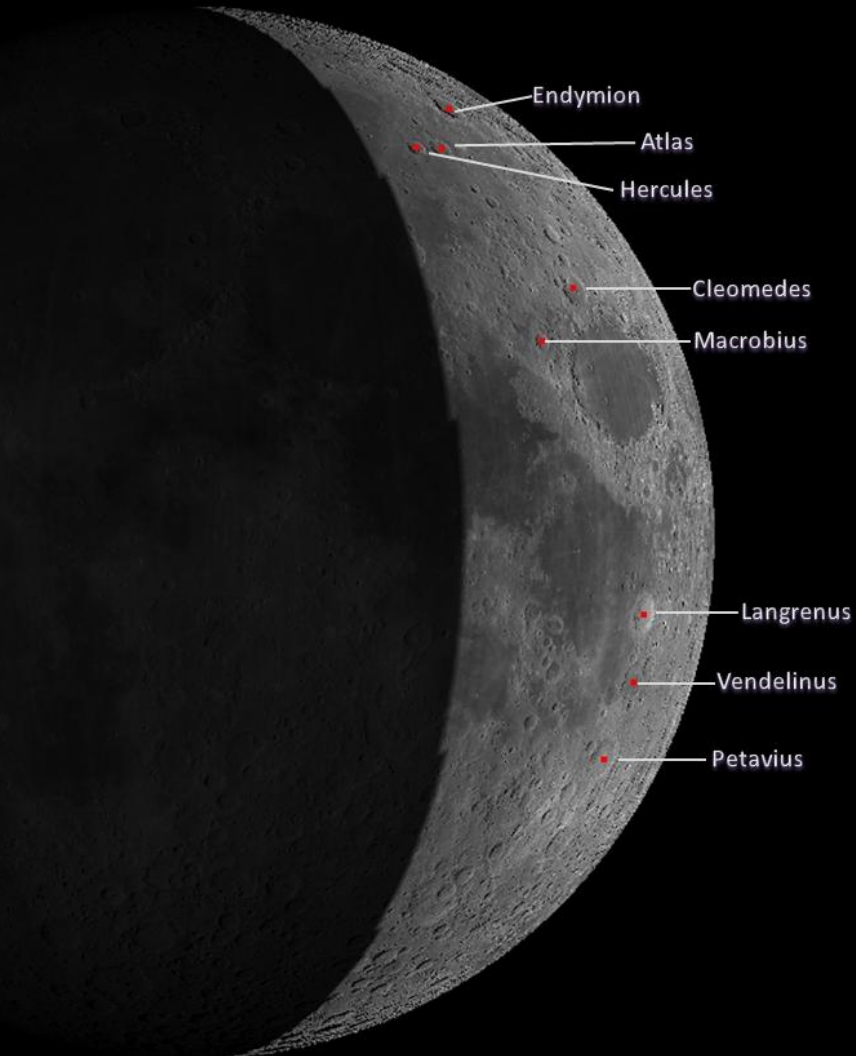
Monthly Lunar Feature(s)

Binocular Features



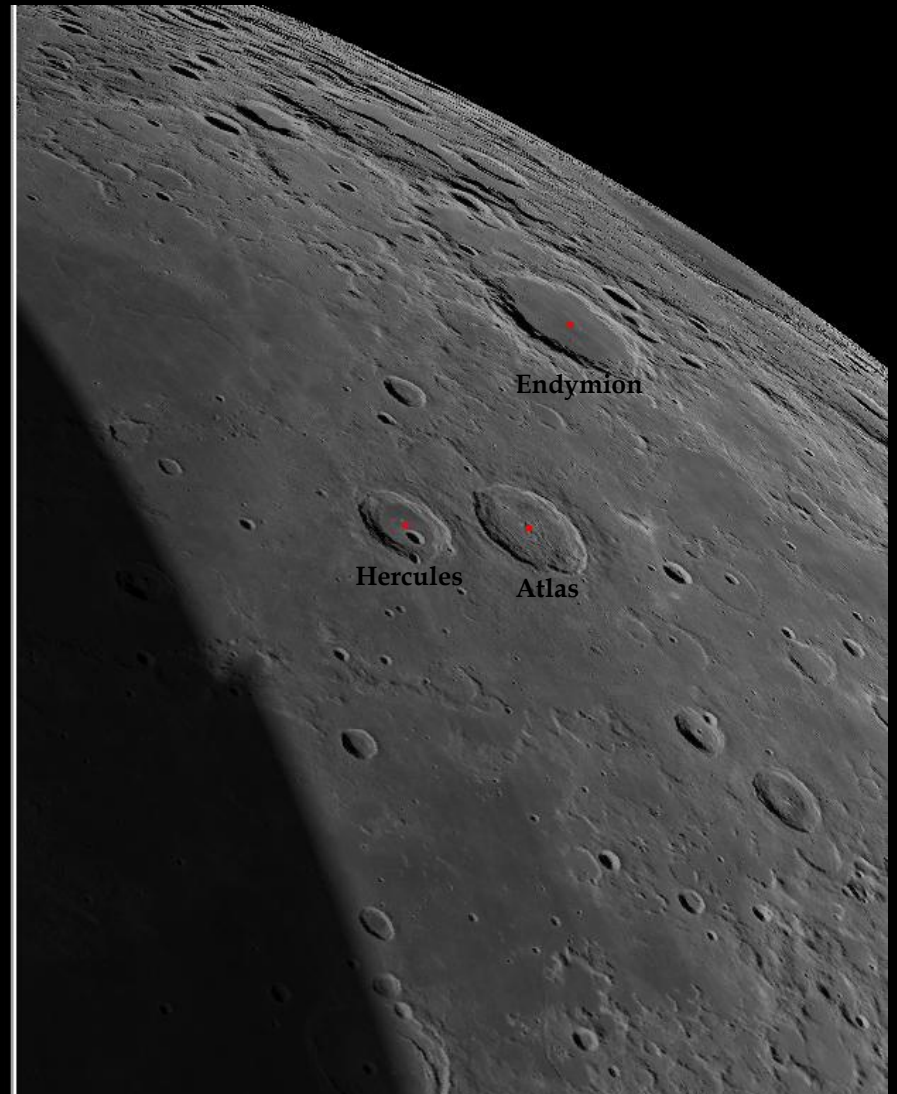


Craters (~4 Days)



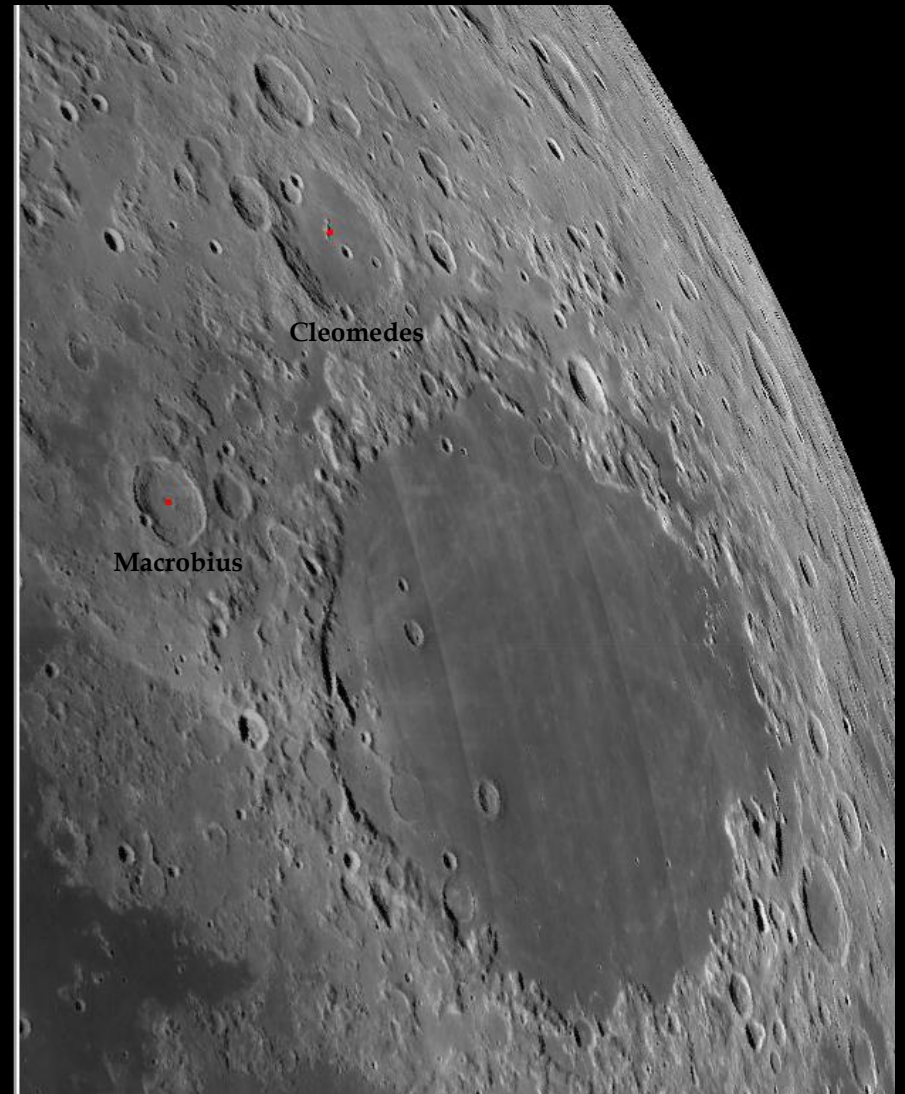


Craters (~4 Days)



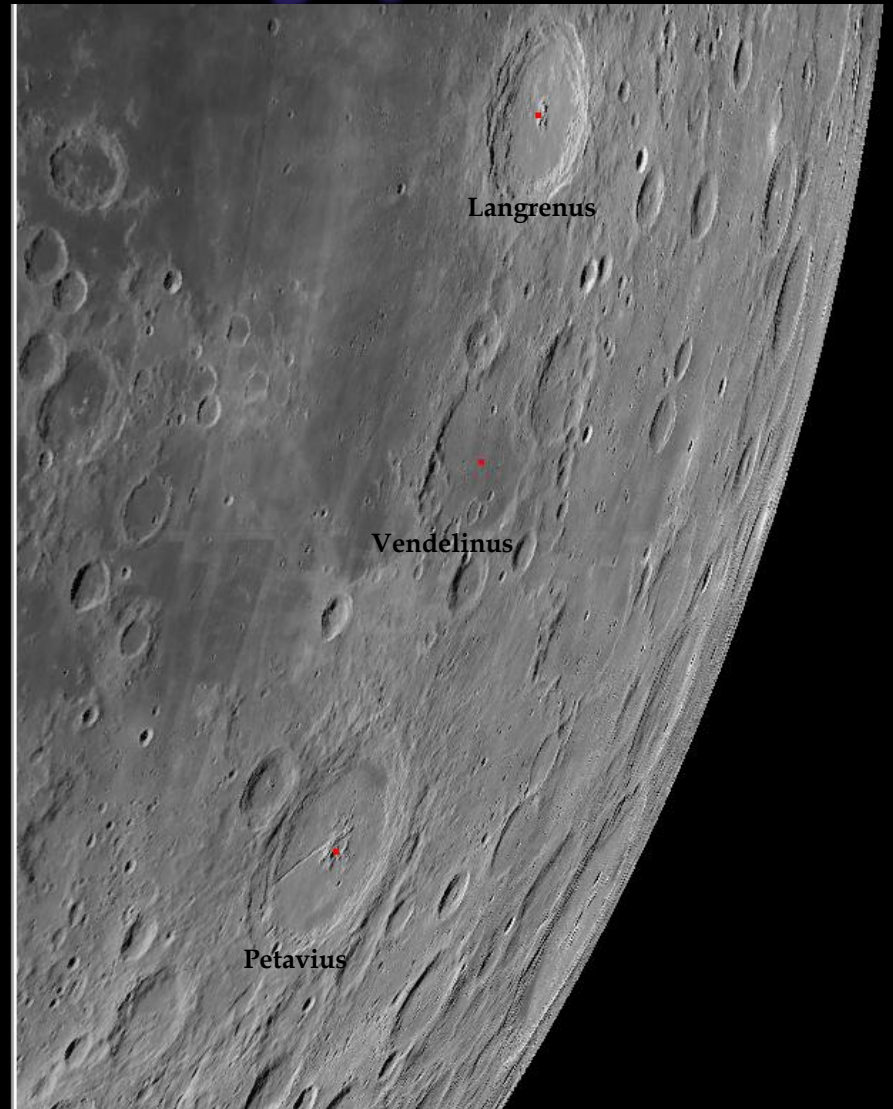


Craters (~4 Days)



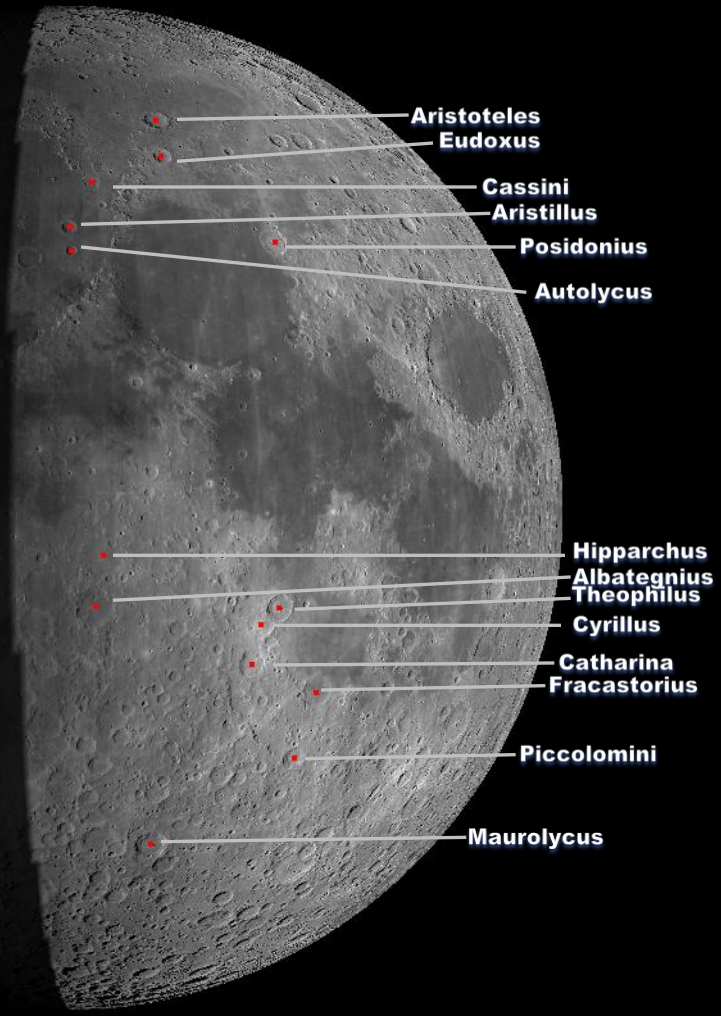


Craters (~4 Days)





Craters (~7 Days)



Aristoteles
Eudoxus

Cassini
Aristillus

Posidonius
Autolycus

Hipparchus
Albategnius
Theophilus
Cyrillus

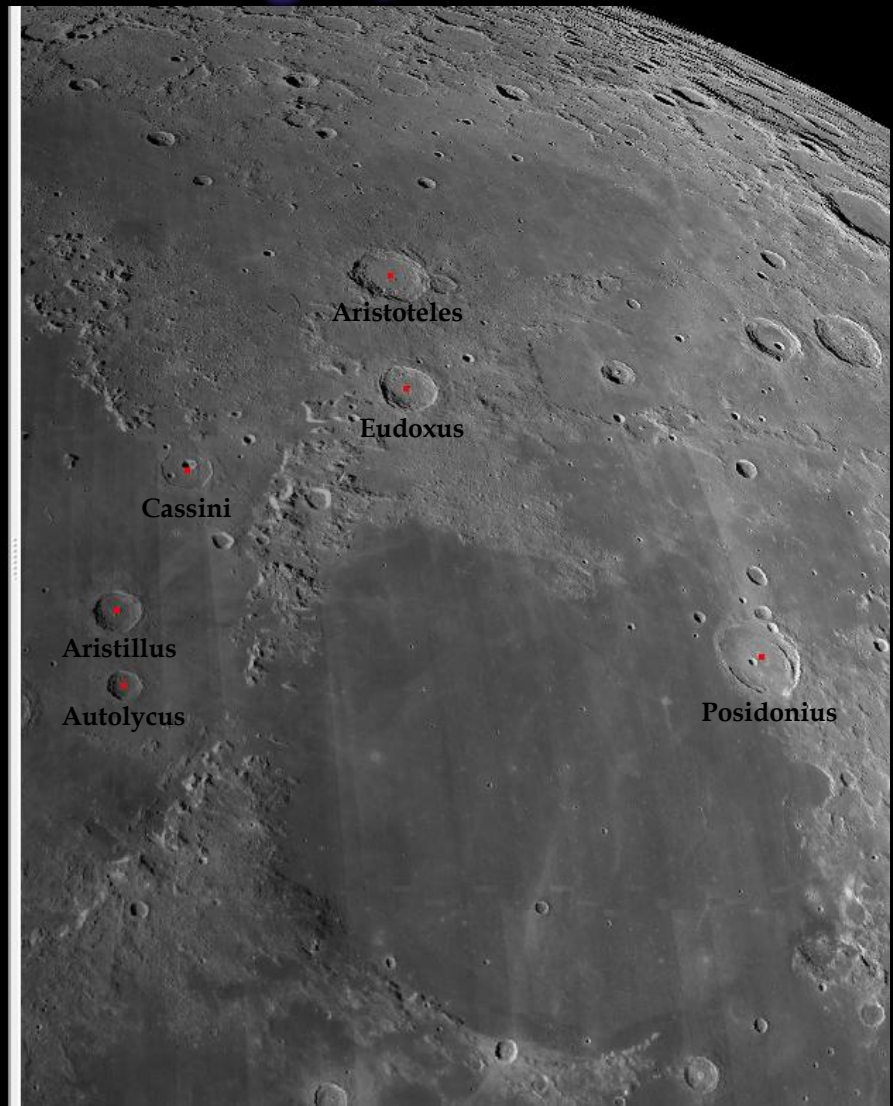
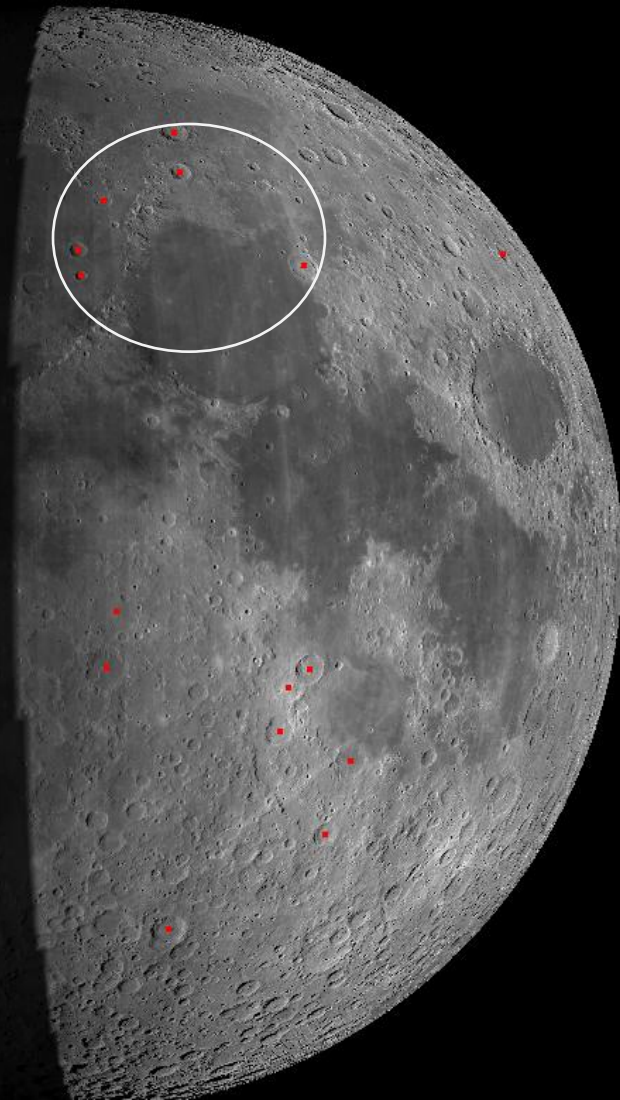
Catharina
Fracastorius

Piccolomini

Maurolycus

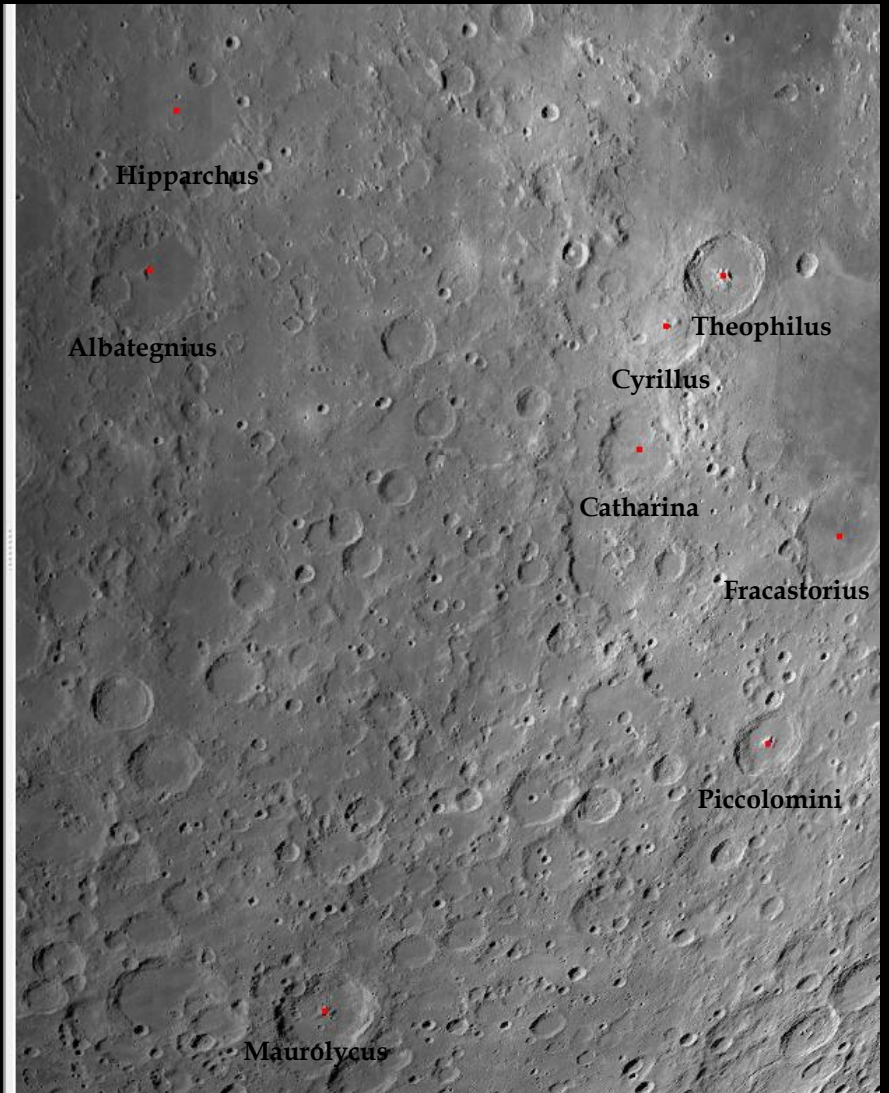
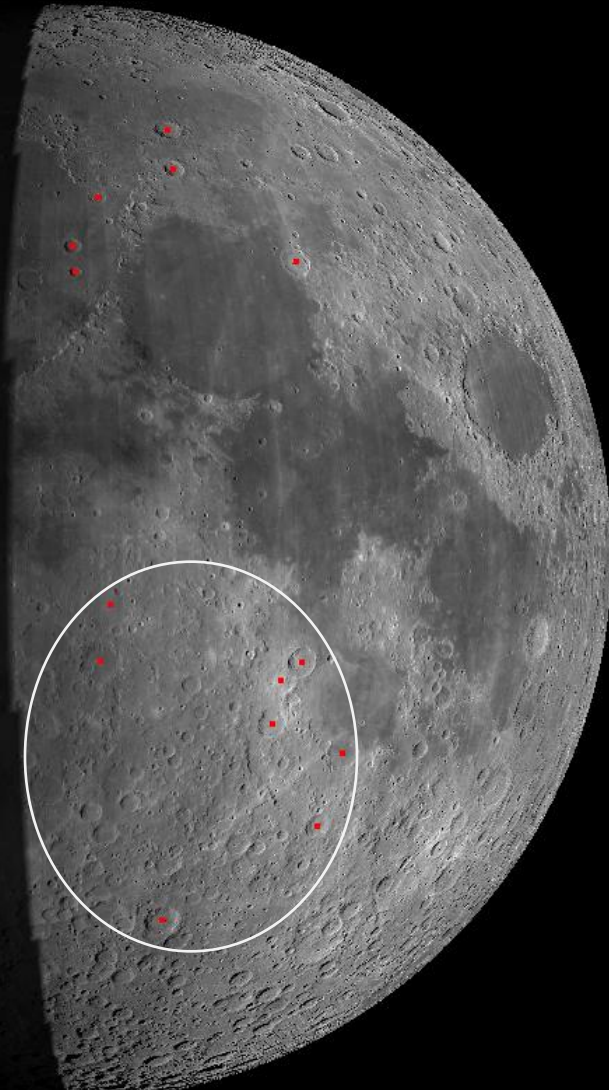


Craters (~7 Days)



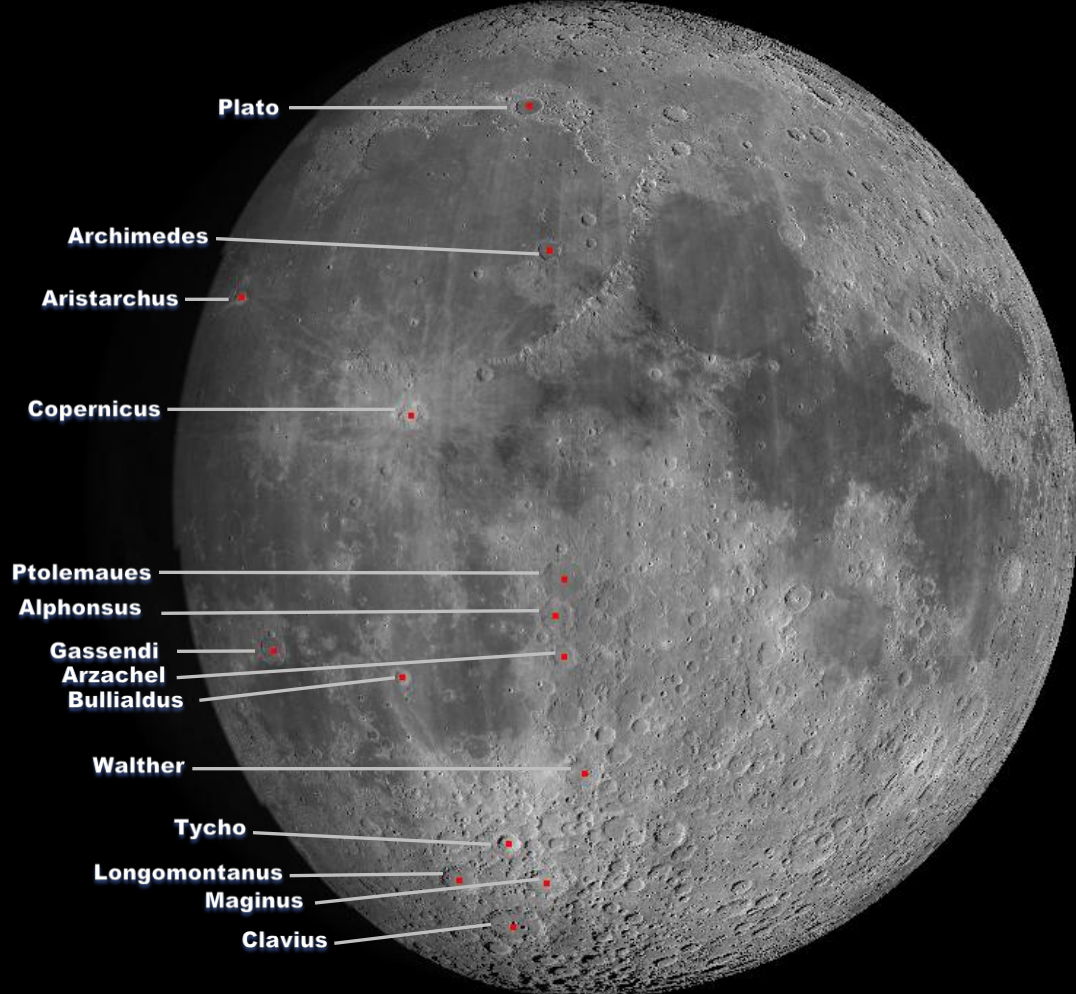


Craters (~7 Days)



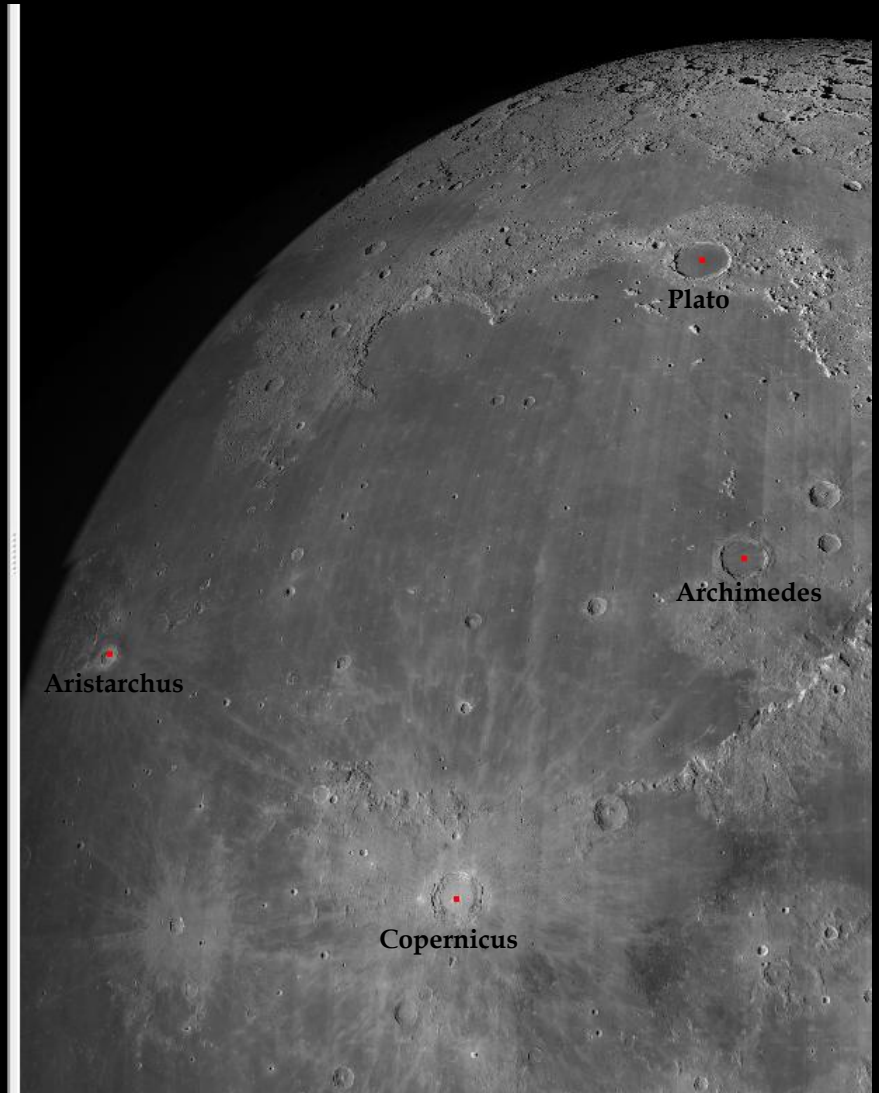
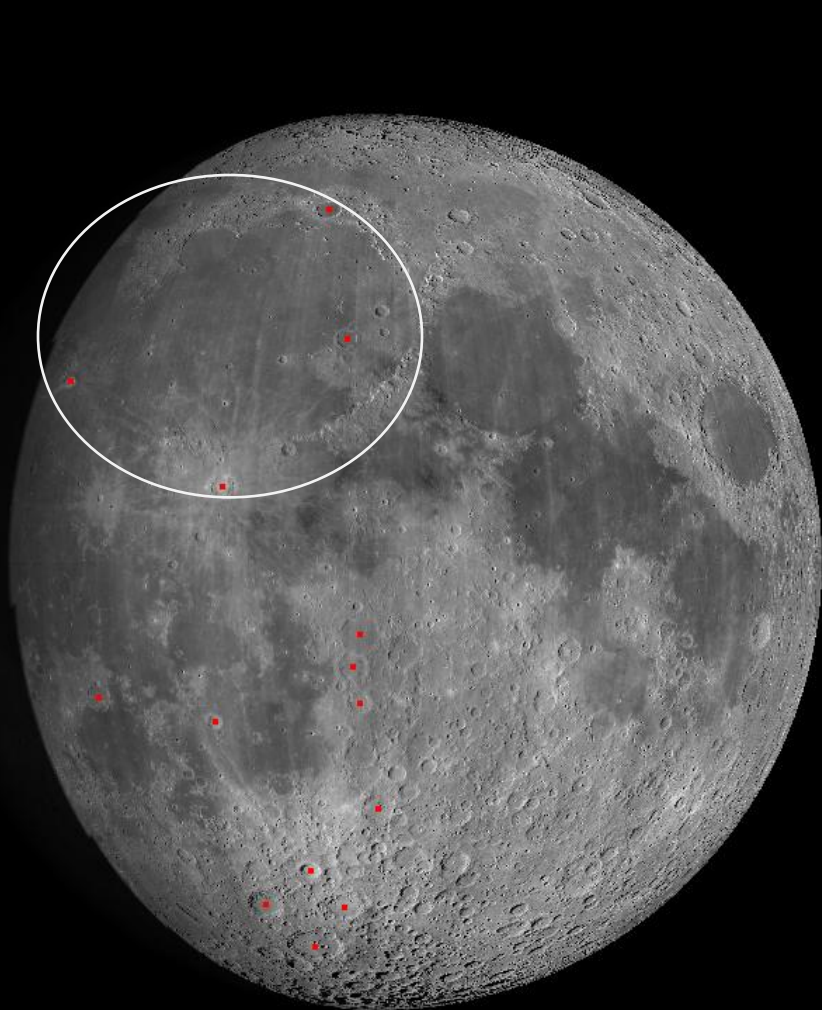


Craters (~10 Days)



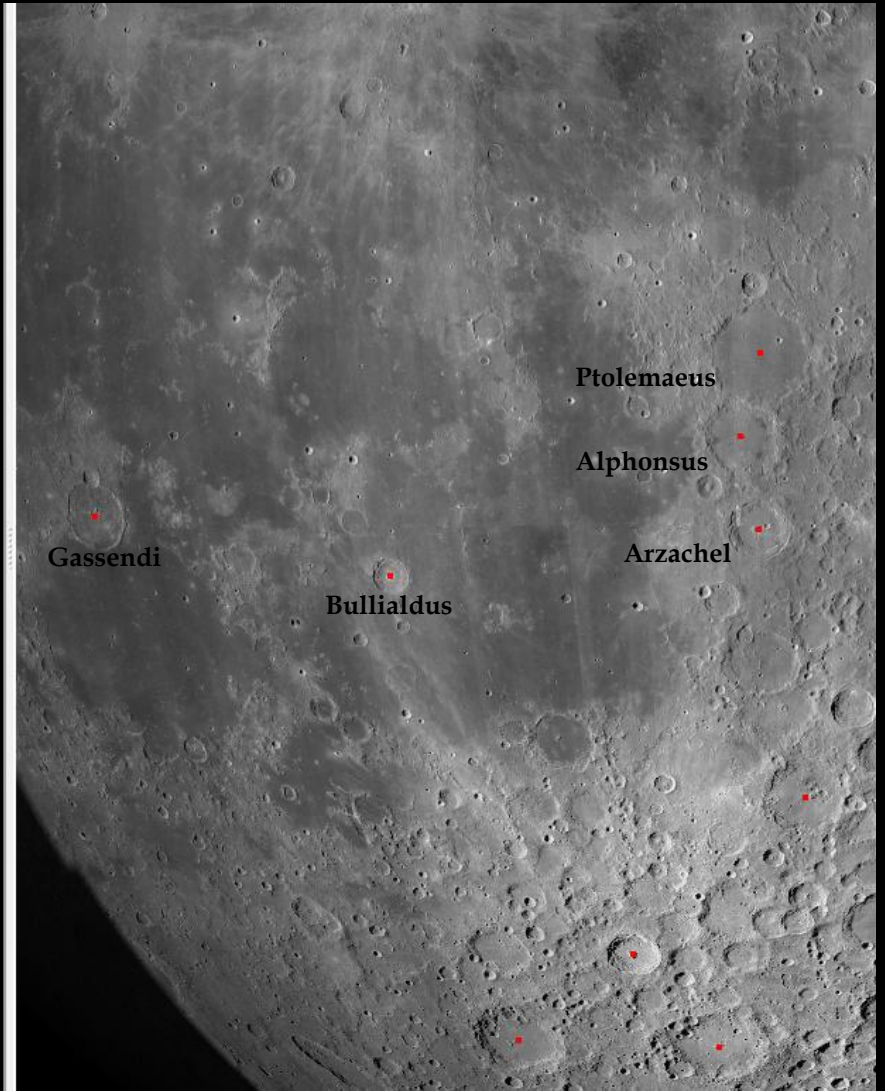
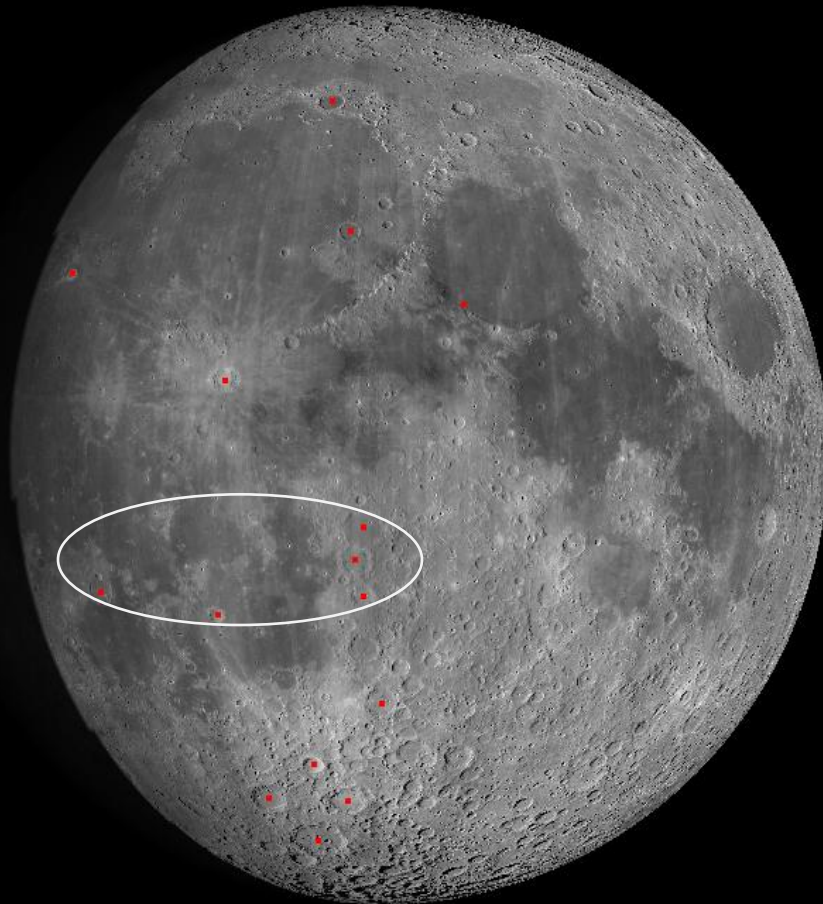


Craters (~10 Days)



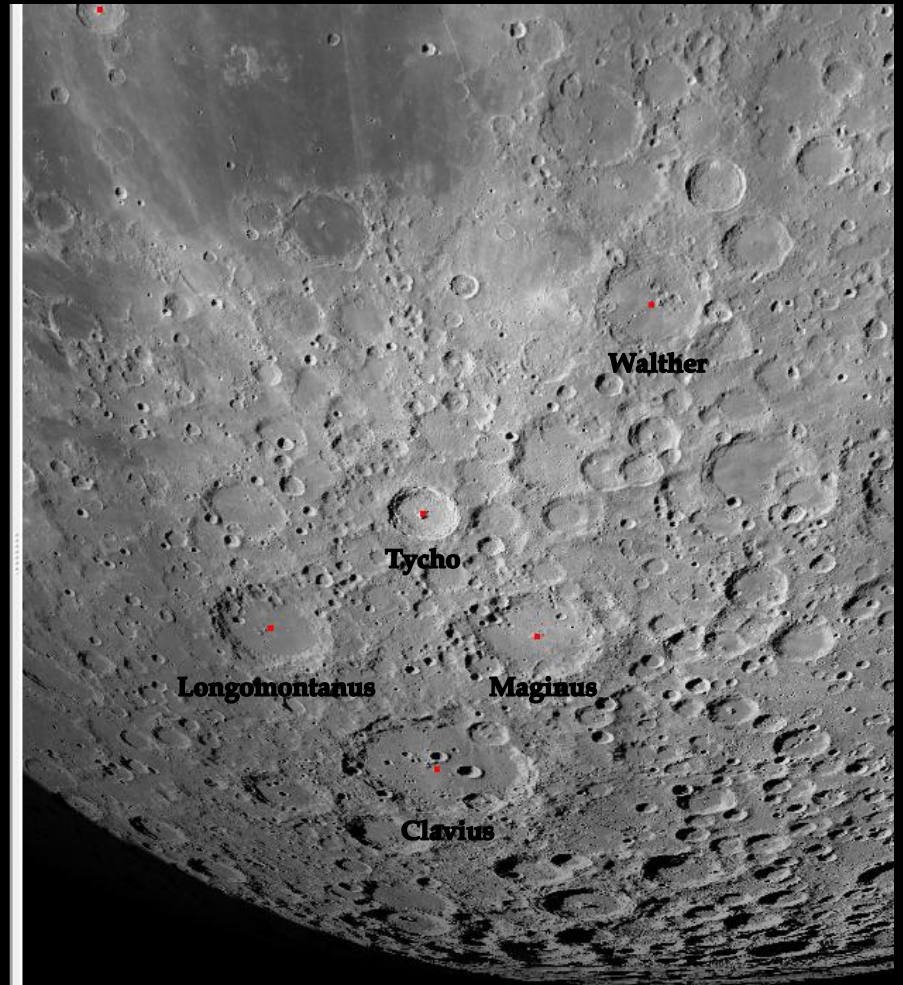
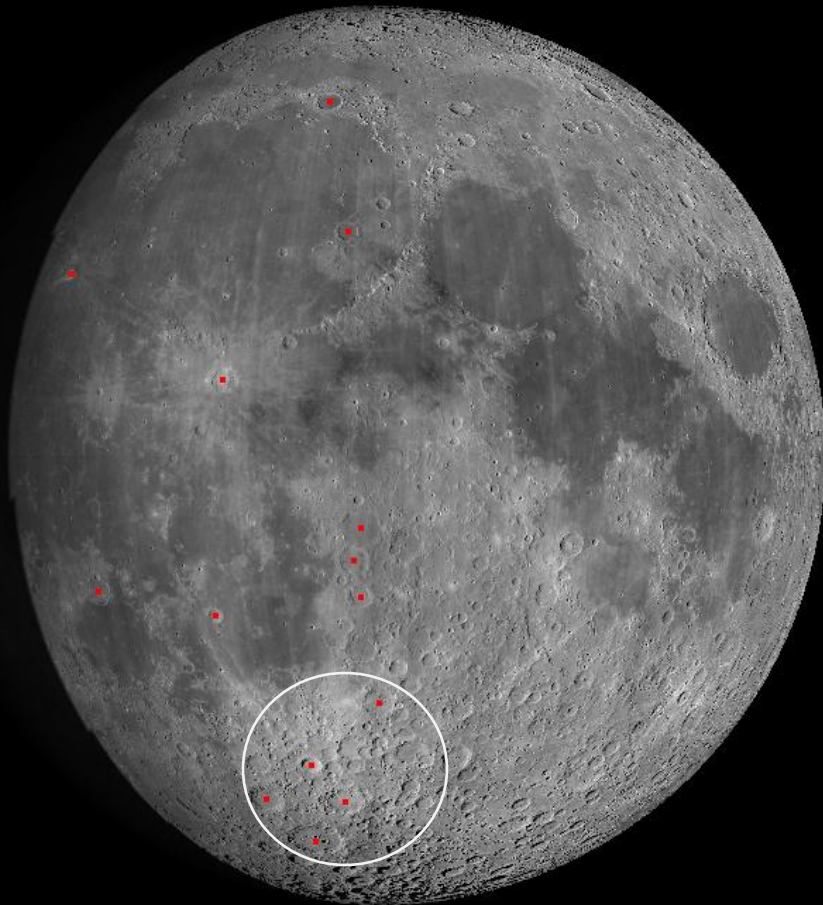


Craters (~10 Days)



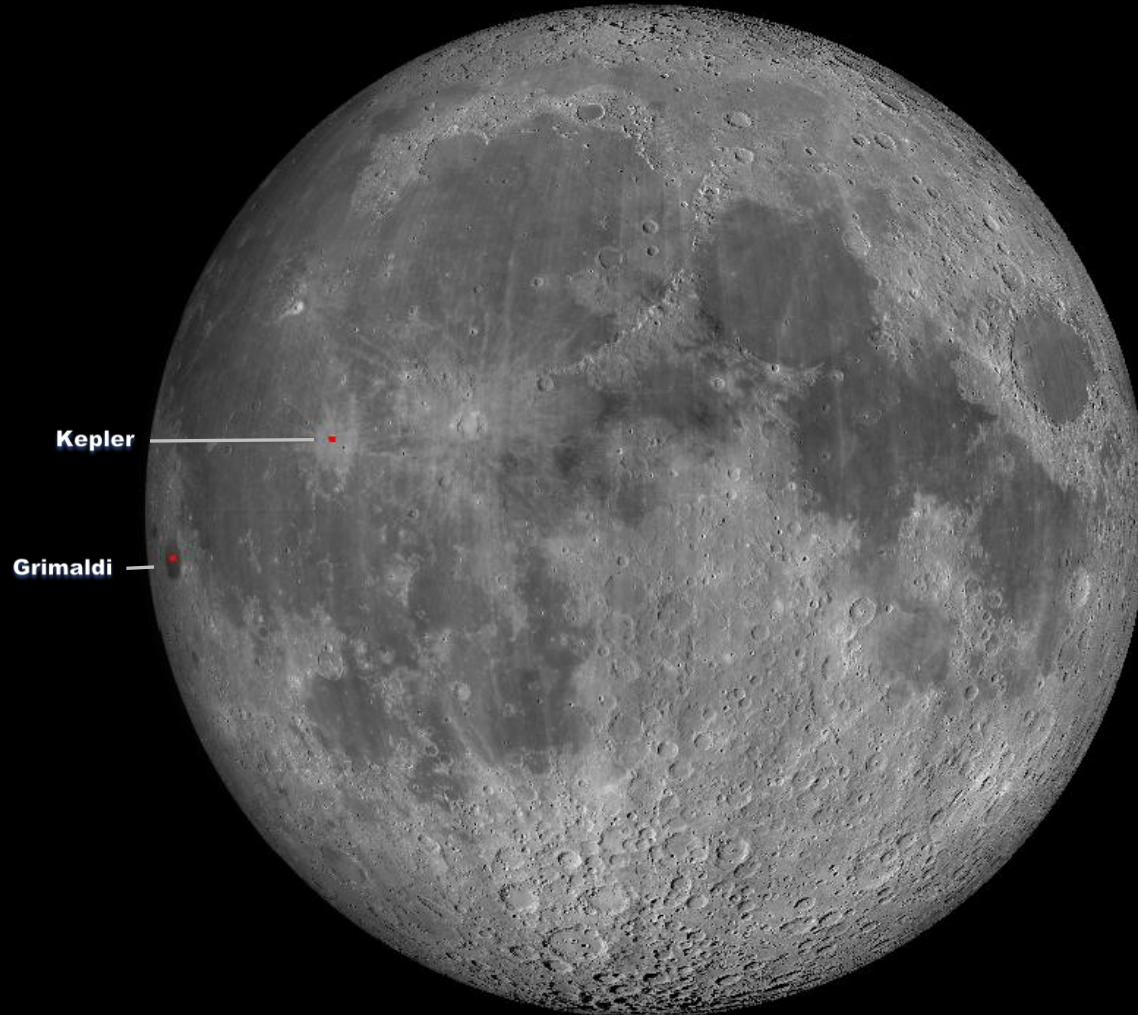


Craters (~10 Days)



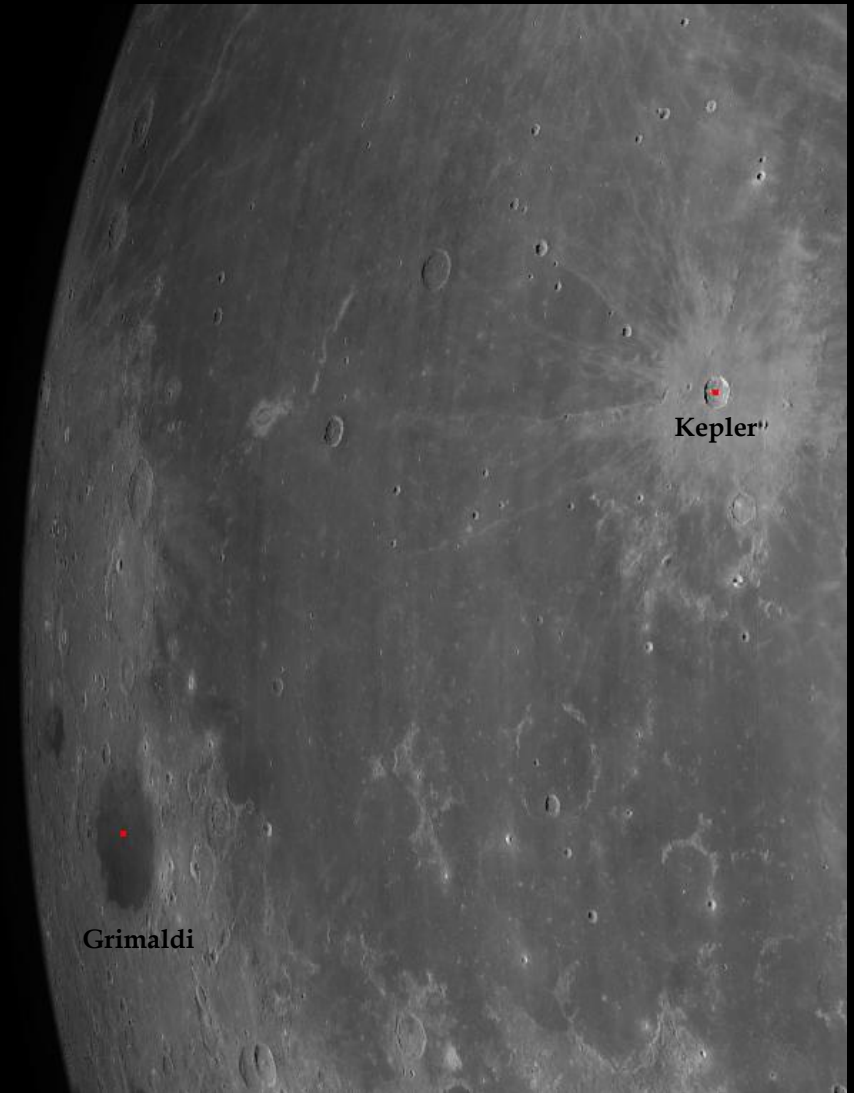
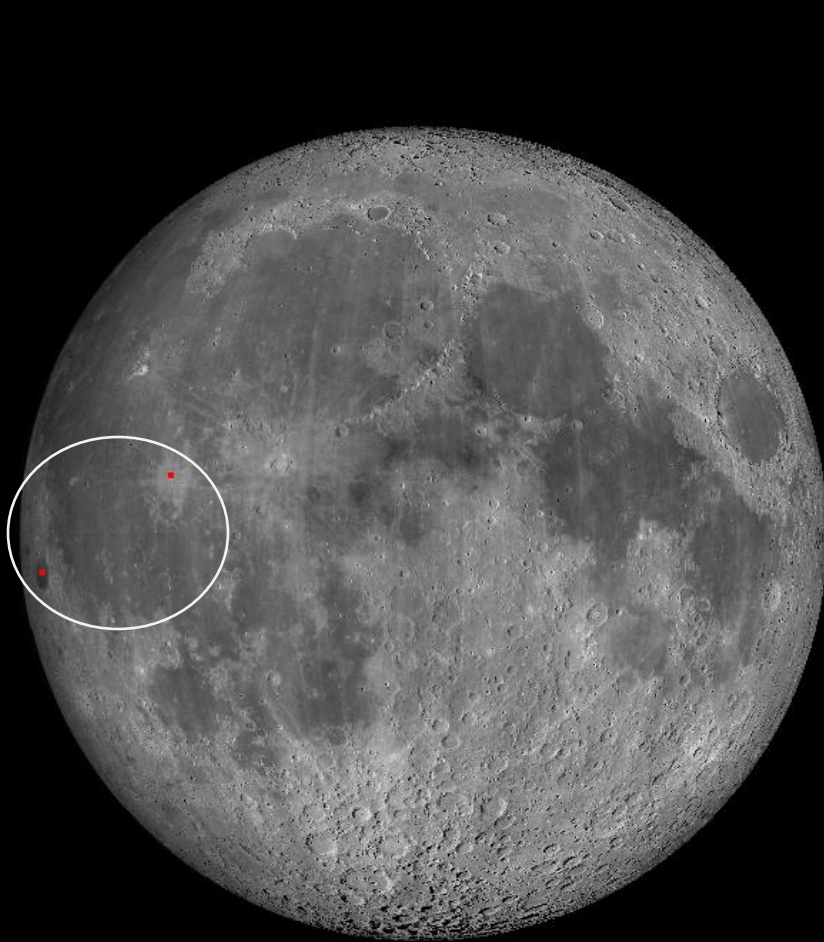


Craters (~14 Days)





Craters (~14 Days)





Monthly Full Moon Name

The January full moon is known as the Full Wolf Moon. During the snows of midwinter, the wolf packs howled outside Indian villages. Thus, the name for January's full Moon. Sometimes it was also referred to as the Old Moon, or the Moon After Yule.





Gee Whiz Question(s) of the Month

February 1865 was the only year in recorded history to have what astronomical event occur?



Gee Whiz Question(s) of the Month

Two full Moons



CE Observing Challenge

NGC 2392

- Planetary Nebula in Gemini
- Magnitude +9.19
- Right Ascension: 07h 30m 1.04s
- Declination: 20° 52' 40.7"

ENJOY!!

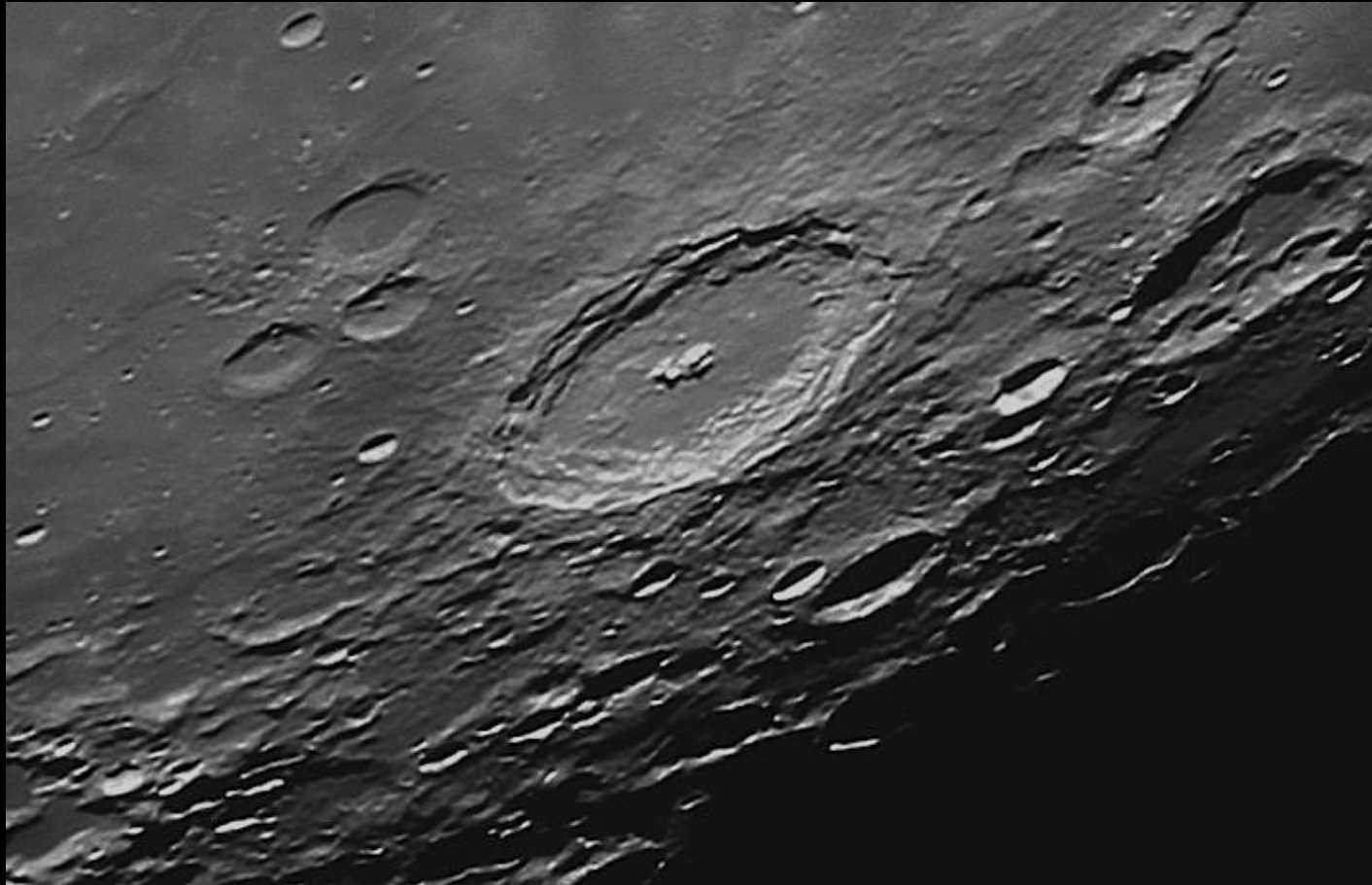


Next Meeting

February 1st, 3:30 p.m.



HAPPY NEW YEAR!!!!





Useful Websites

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