



Earth and Moon Statistics

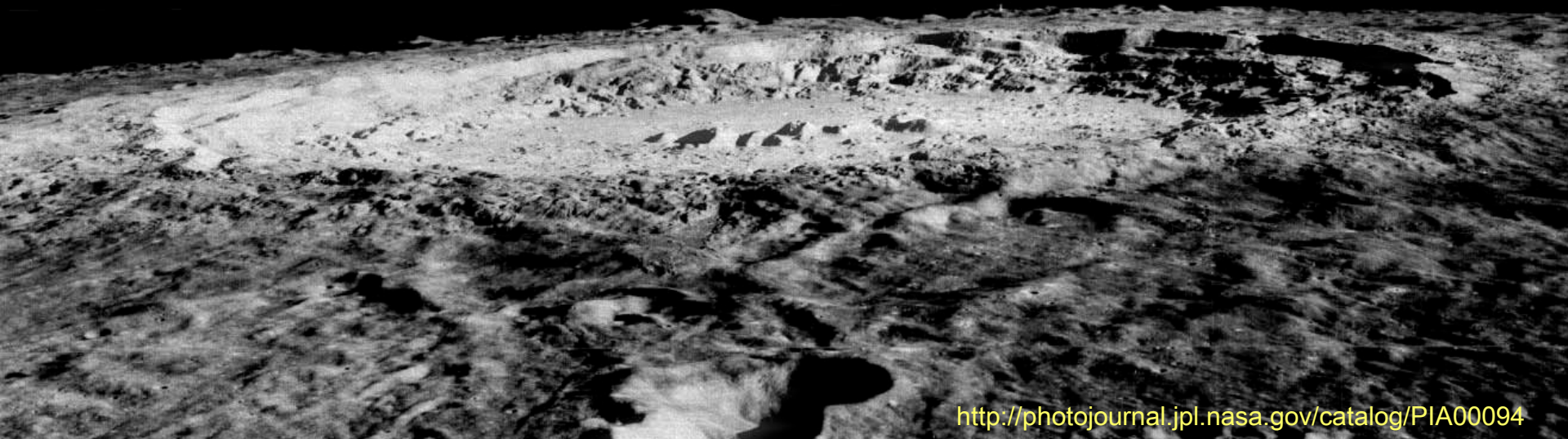
By the Lunar and Planetary Institute

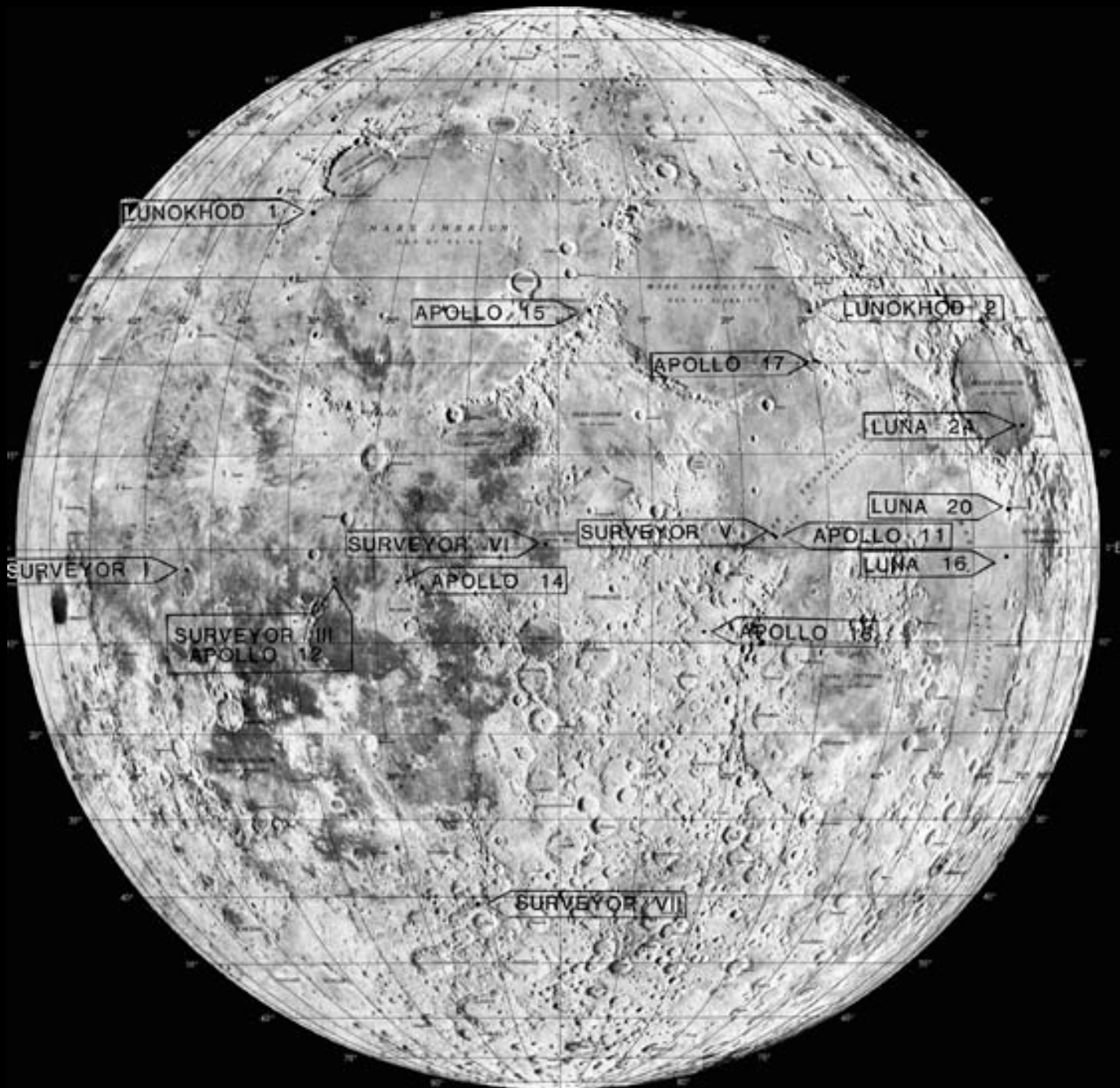
For use in teacher workshops

Earth's Moon

What's the Moon like?

What do people see when they look at the Moon?





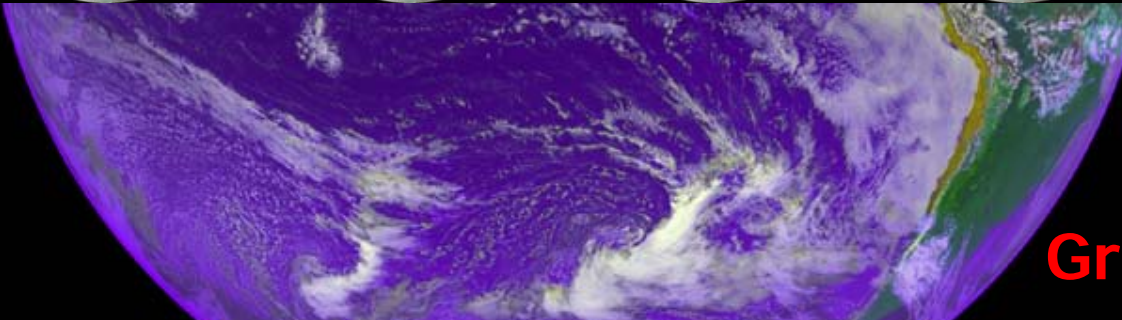
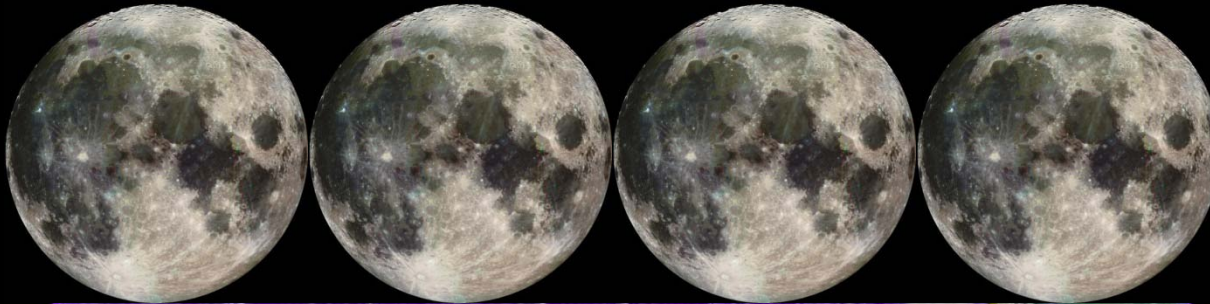
How Big is the Moon?



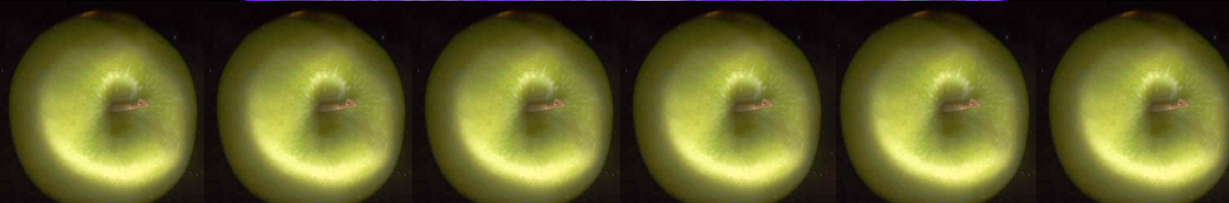
Moon Size

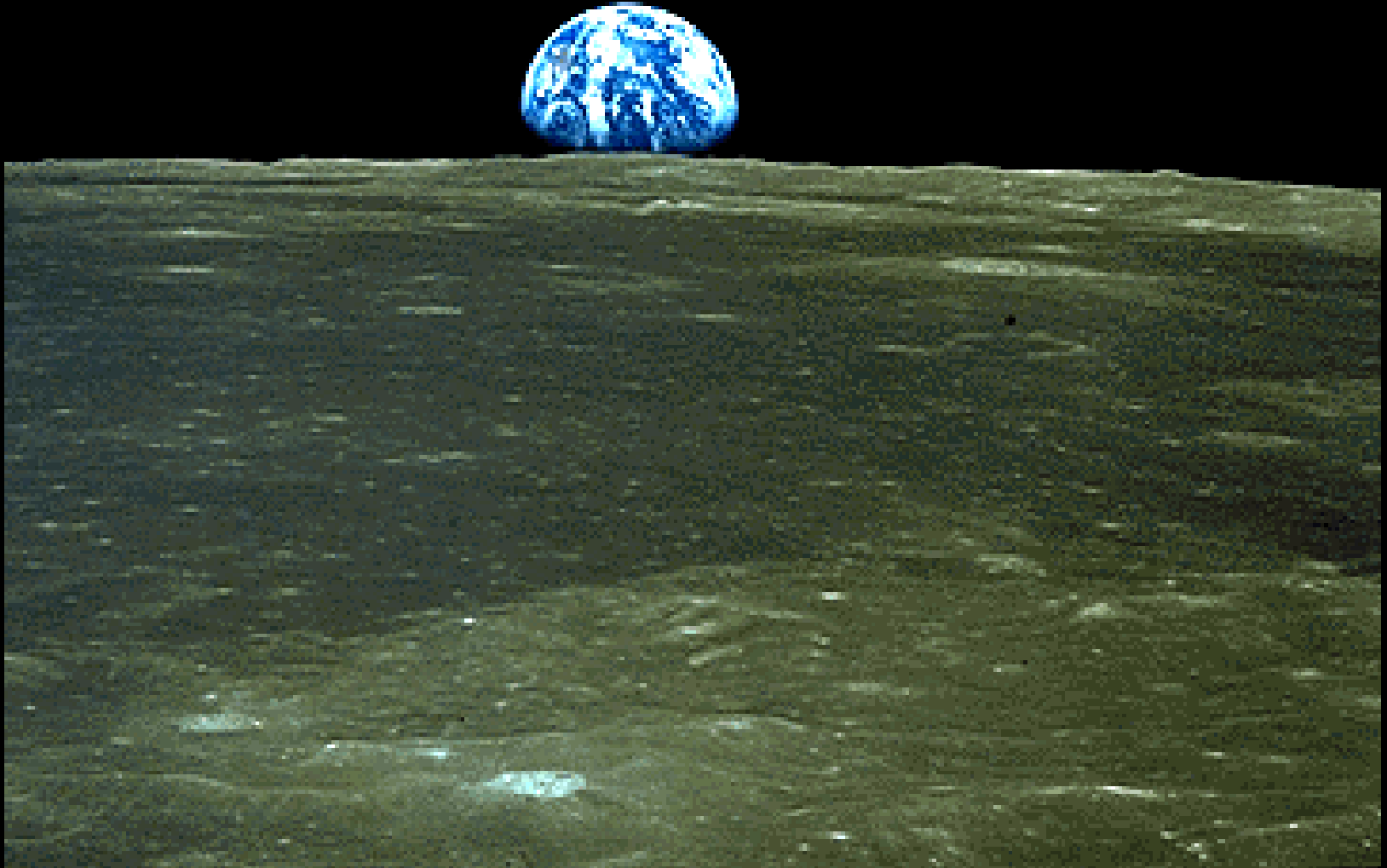


**~ 1/4 width of Earth
Radius of 1080 miles**



Gravity ~ 1/6 of Earth's





Relative Size and Distance of Earth and Moon?

Earth and Moon to Scale

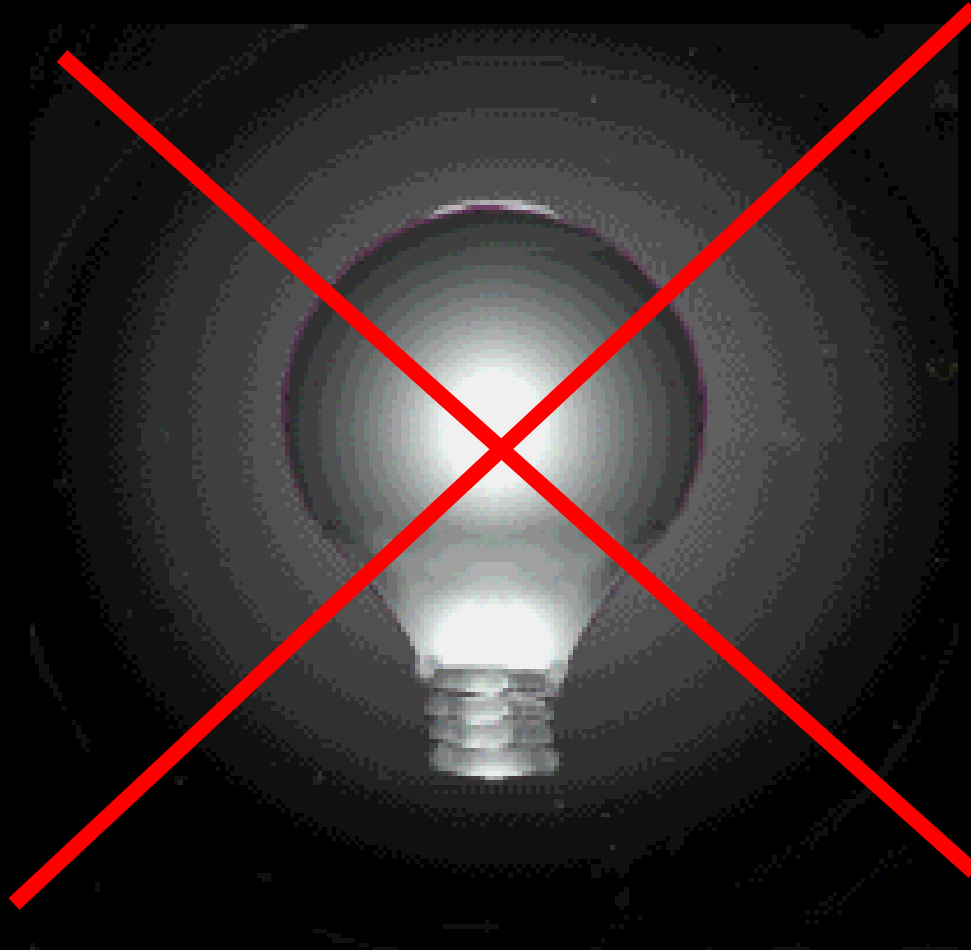


If Earth were a basketball, then the Moon would be a tennis ball,

23.5 feet away

Moon Stats

No light of its own!!



Moon Rotation

Spins on axis (rotates) once every 27.3 days

Tilted ~7 degrees (Earth = 23.5)



Moon's Orbit

Orbits (revolves around)
Earth every **27.3** days

Elliptical orbit (not a perfect circle)

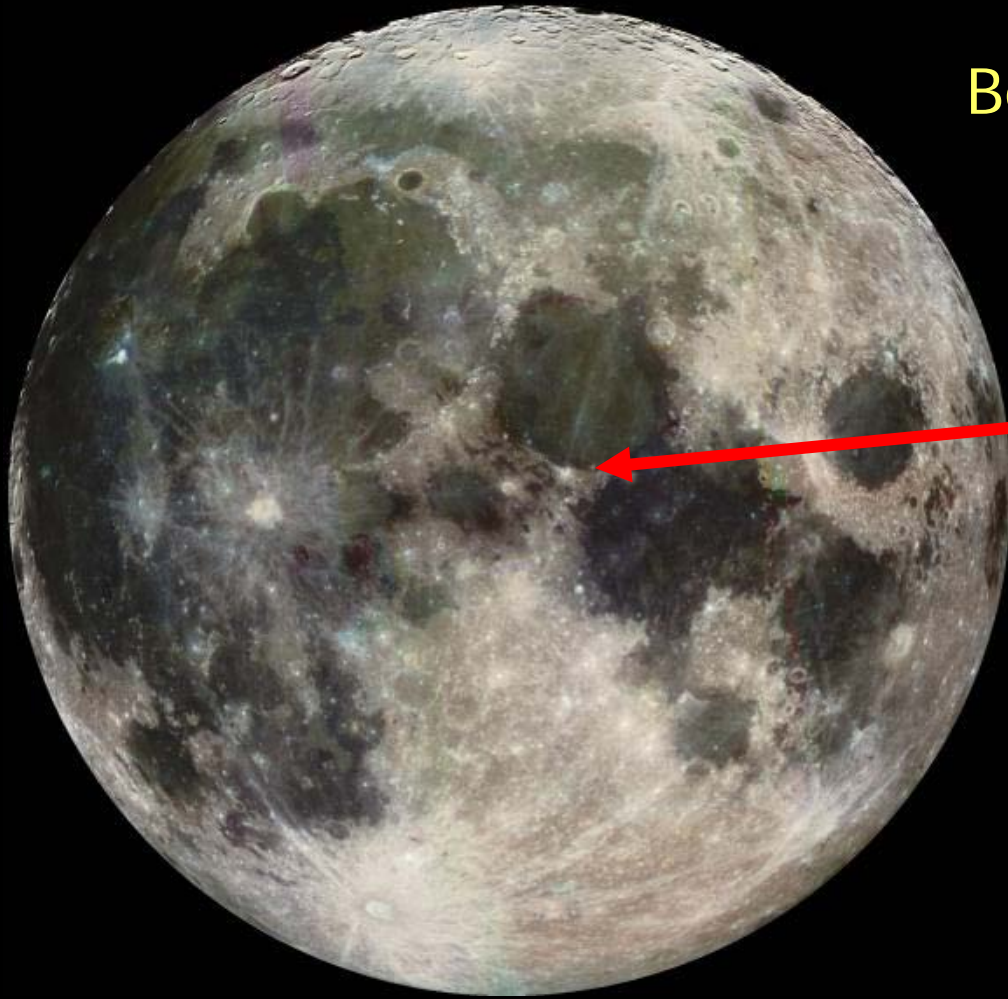


360,000 km
224,000 miles



406,000 km
252,000 miles

The Near Side



The Moon rotates in 27.3 days.
The Moon orbits Earth in 27.3 days.

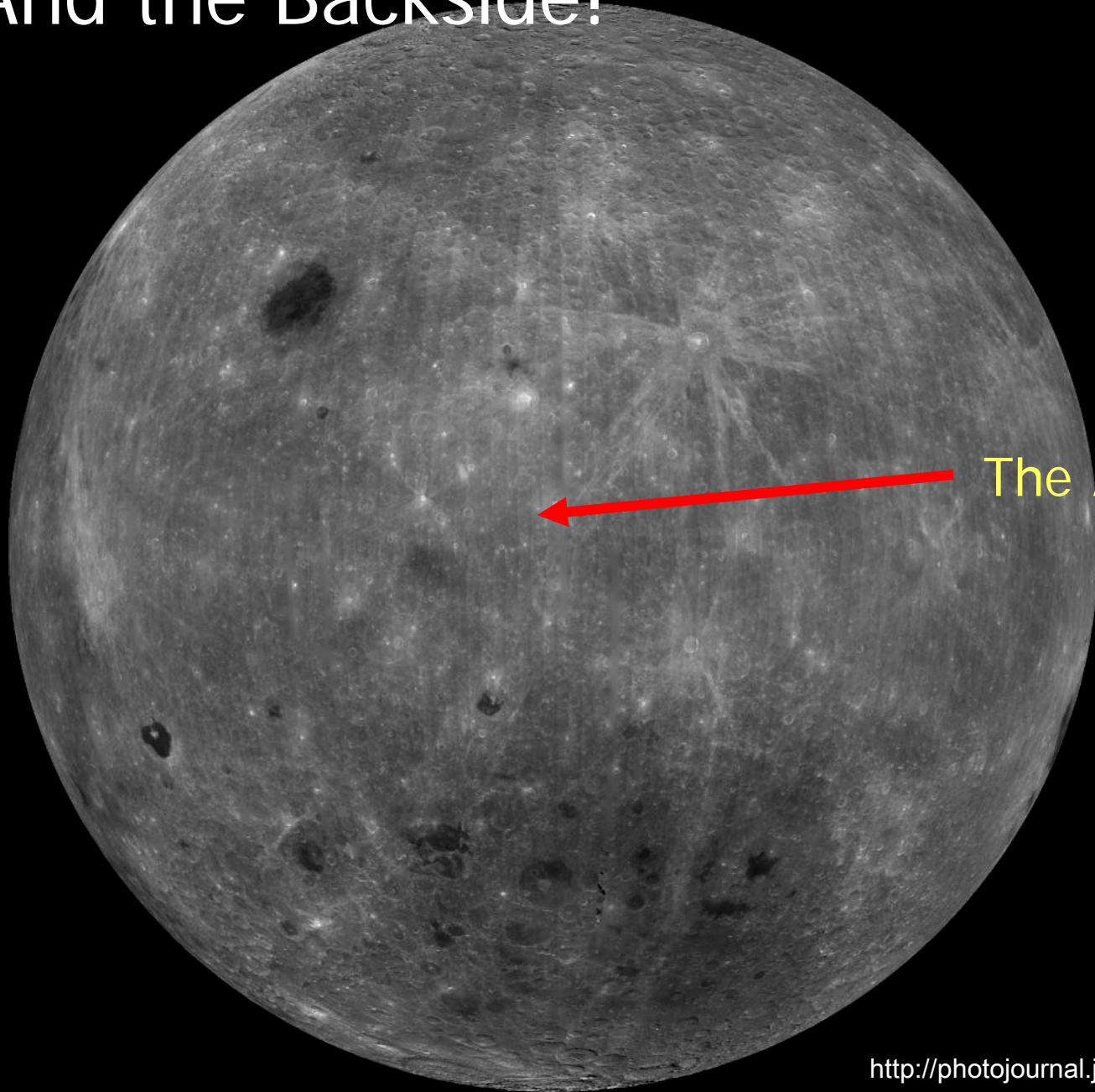
Because the Moon rotates and revolves at the same rate, we only see one side

The *NEAR* side

There is **NO** DARK SIDE

There **is** a FAR side....

And the Backside!



The *FAR* side

Moon Stats

Moon's orbit around Earth is inclined about 5 degrees to Earth's plane of orbit around the Sun

