

Moon presentation

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IMAGE 1: Impact craters



What geologic features are present? How did they form?

Large, bowl-shaped cavity in the ground or on the surface of a planet or the moon

Impact craters are formed when objects collide with the surface at high velocity



How old are they relative to each other and how do you know that?

Origin of Lunar Craters became accepted in the 1940's. This gave them time to figure out the impact history of the moon. The law of superposition states that if a crater overlays another, it is younger. The amount of erosion on a crater was another clue to its age.

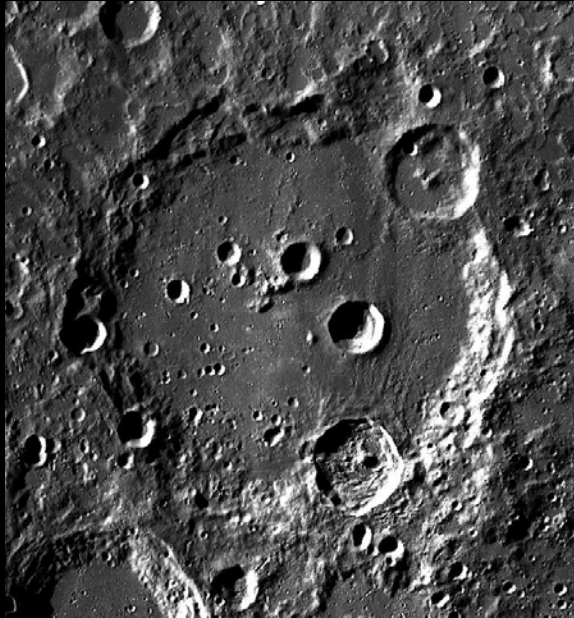


IMAGE 2: Lunar Maria

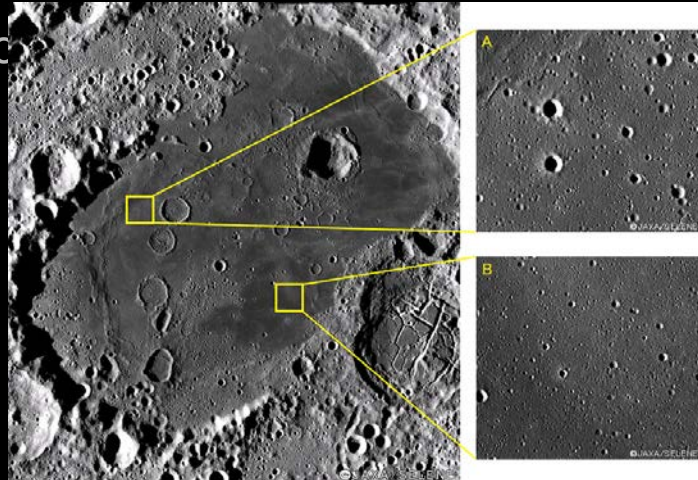


What geologic features are present? How did they form?

Large, dark, basaltic plains on Earth's Moon.

Maria is Latin for “seas” because early astronomers thought they were actual seas.

Formed from lava flows that were caused when the surface of the moon was disrupted by the impacts of



How old are they relative to each other and how do you know that?

The age of Lunar Mare basalts has been determined by the radiometric dating technique and crater counting. The radiometric ages range from about 3.16 to 4.2 Ga, although the youngest ages determined from crater counting are about 1.2 Ga. Radiometric dating is used to date materials such as, rocks or carbon and was first published in 1907 by Bertram Boltwood.

IMAGE 3: Wrinkle ridges



What geologic features are present? How did they form?

Type of feature commonly found on the lunar maria. Low sinuous ridges formed on the mare and can extend up to several hundred kilometers.

They are tectonic features created when the basaltic lava flows contracted.

Called veins because of similar look.

Found near craters



How old are they relative to each other and how do you know that?

Wrinkle ridges have been seen on the surface of the Moon for over a century. Studies of these interesting features began as early as 1885, with telescopic photographs, and continued beyond the Apollo era, with satellite and lander observations.

SOURCES:

"Moon: near side". Photo. Encyclopædia Britannica Online. Web. 18 Oct. 2016.

"Lunar Maria." N.p., n.d. Web. 26 Oct. 2016.

"Moon Image 1." *Lunar and Planetary Institute*. N.p., n.d. Web. 10 Oct. 2016.