

Lunar Imaging



NEXT LAB #8

Search for Extra-Terrestrial Intelligence



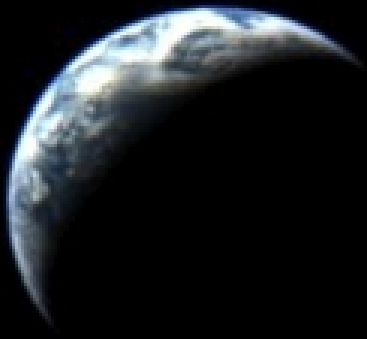
Why are we doing this lab?

The Moon is a pretty neat place. It's also very close, which makes studying it fairly easy. We can learn a lot about our solar system from just looking at the Moon!

For this lab, you will examine craters on the Moon and determine some of their properties. We'll also talk a bit about the End of the World!

The Moon at a Glance

**View from the
Nozomi spacecraft.**



**Looking back from the
Galileo spacecraft.**



The Moon at a Glance



The Far Side of the Moon

The whole thing...



The Far Side of the Moon

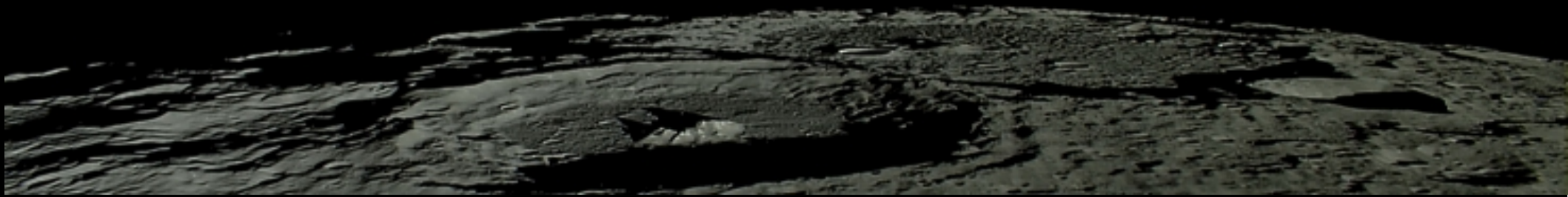
The two sides of the Moon are very different!



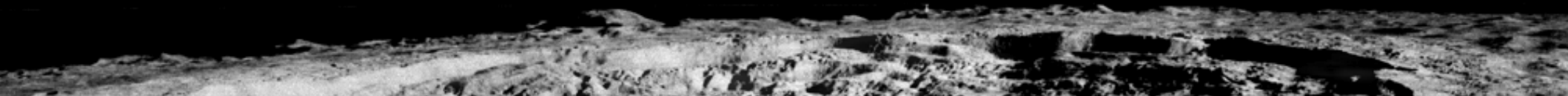
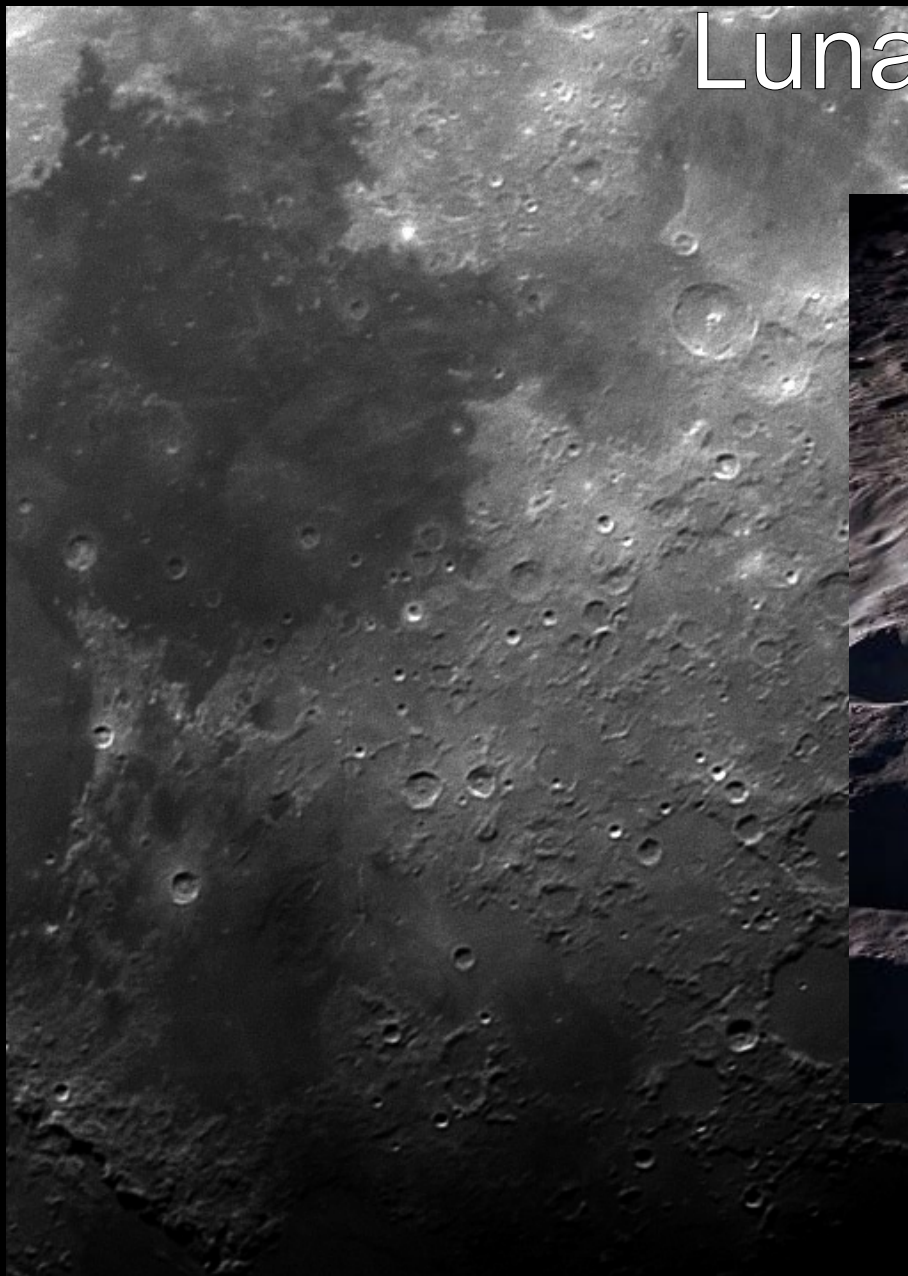
Near Side

Far Side

Lunar Missions

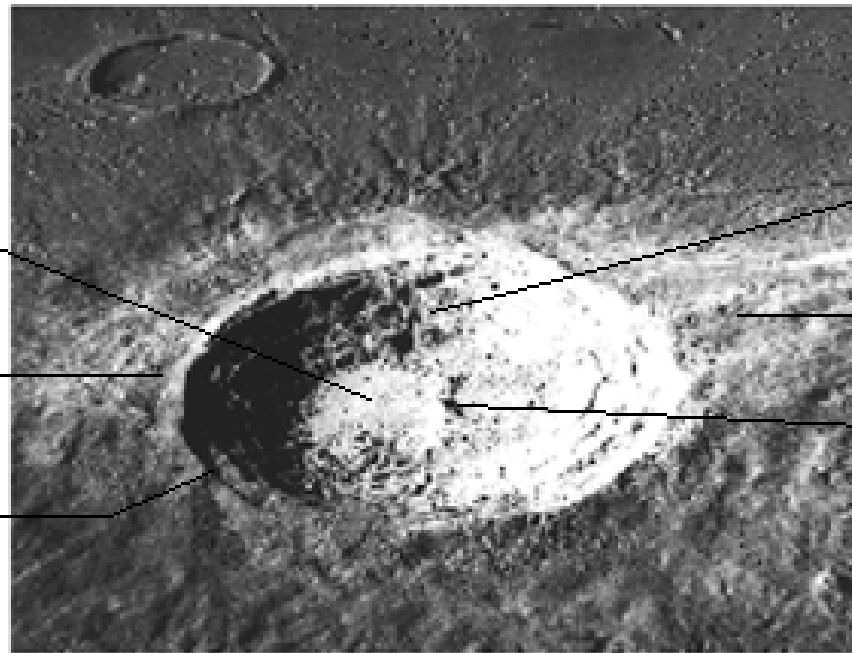


Lunar Surface



Craters

Aristarchus



floor

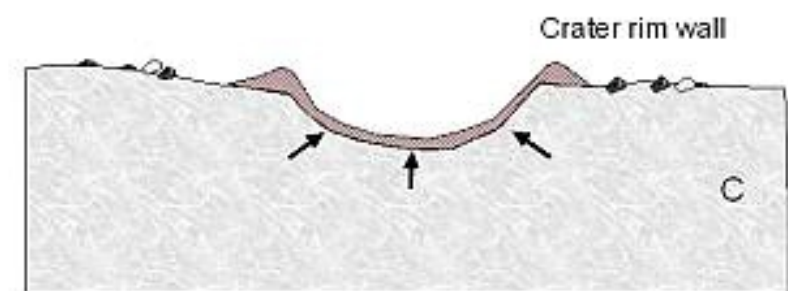
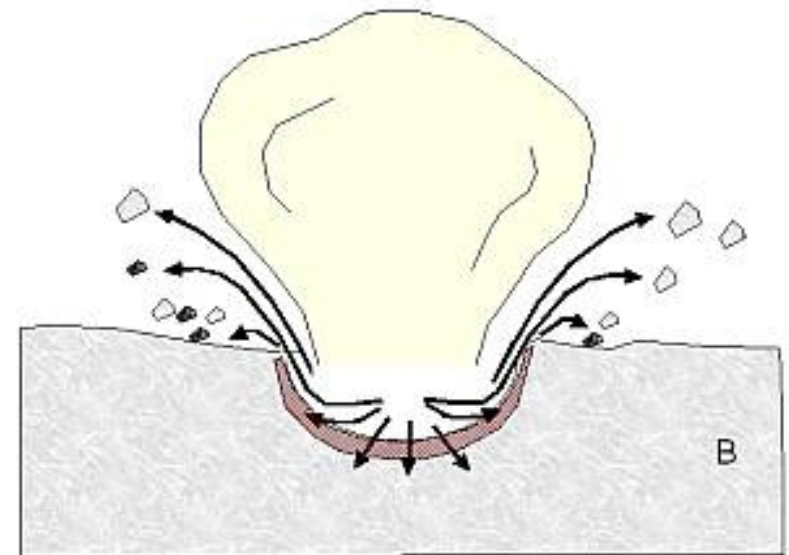
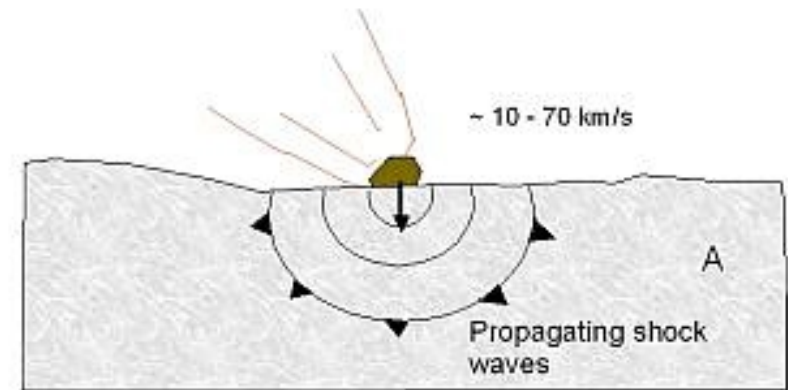
ejecta

raised rim

wall

rays

central uplifts



Crater rim wall

5 km

1500 m

Craters on Earth



Barringer Crater, Arizona



Manicouagan, Quebec

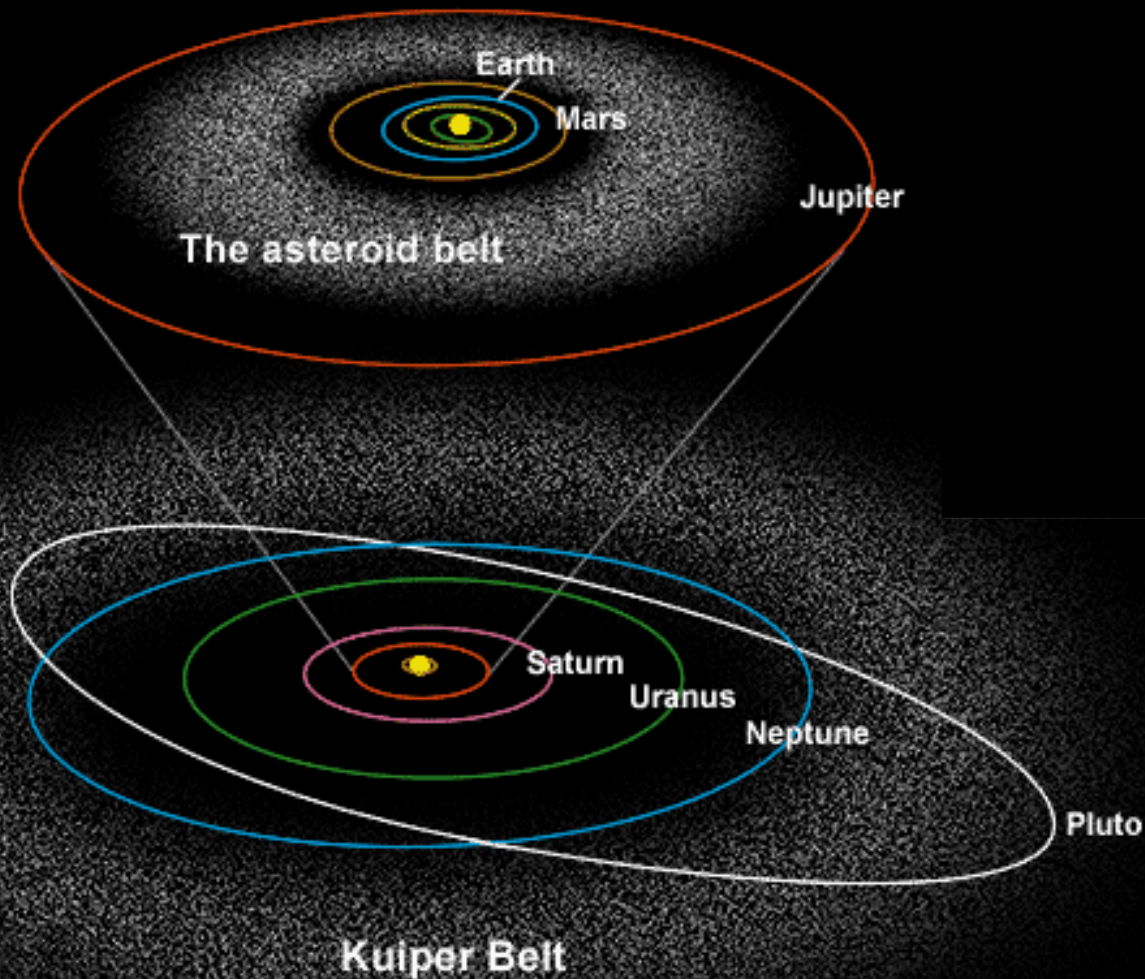
Chicxulub Crater
Mexico



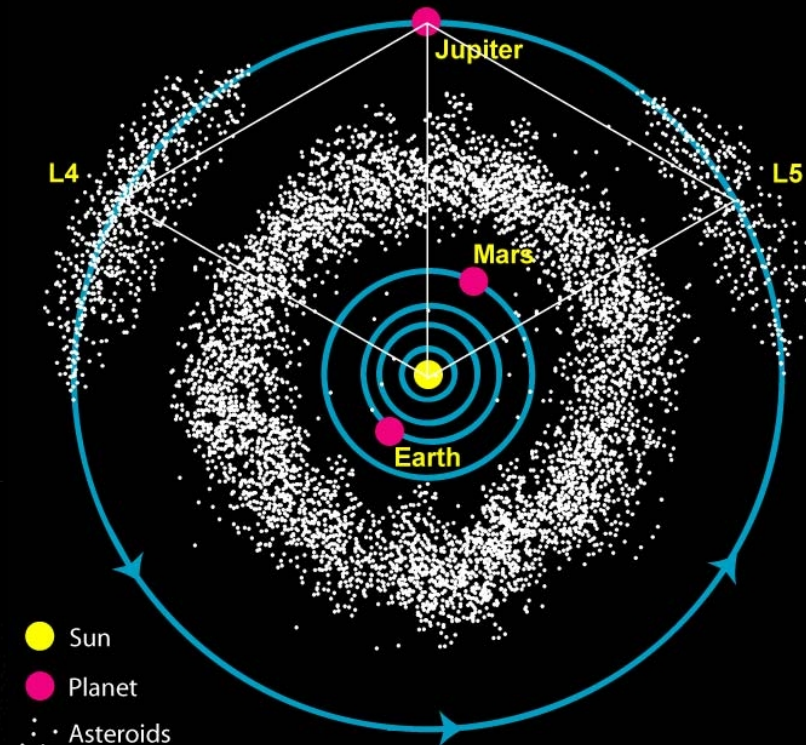
Rocks in Space

Lots of rocks in our solar system (asteroid belt, Kuiper belt, Trojan asteroids...)

INNER SOLAR SYSTEM, plus Jupiter
(Orbits enlarged)



OUTER SOLAR SYSTEM



It's the End of the World

Some say the world will end in fire,
Some say in ice...

