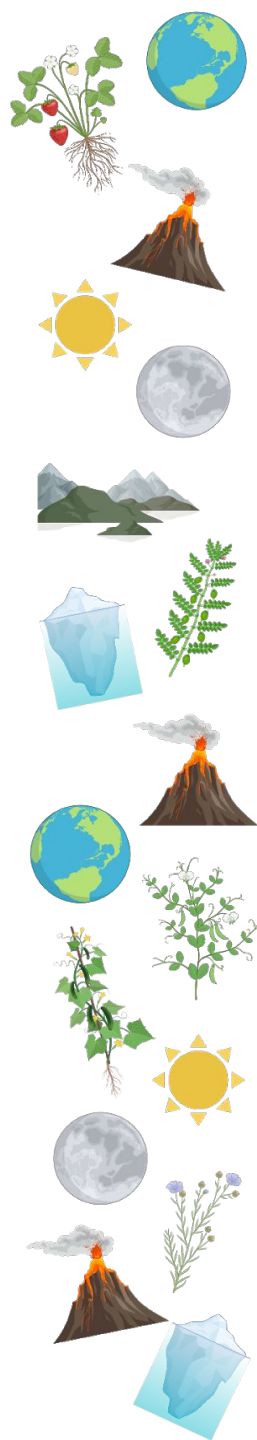


Science Explorers

Earth and Environmental Science

IN PROGRESS



What do glaciers and meteors have in common?



Glacier



Meteor

They change the surface of the earth!!!



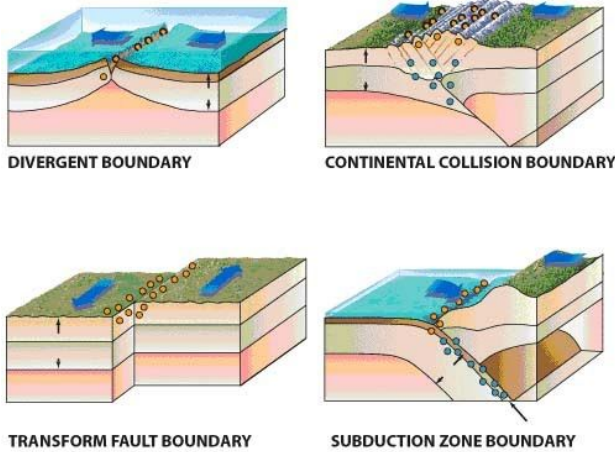
Saskatchewan Glacier, Alberta Canada



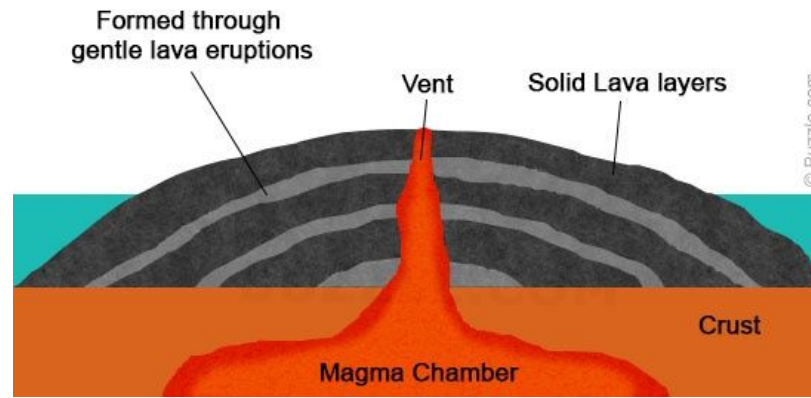
Central Australia, 248-mile diameter

How the earth's surface changes

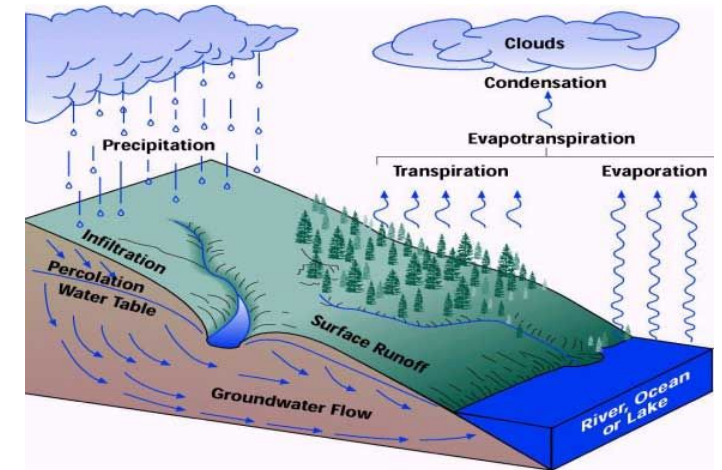
Plate Tectonics



Volcanoes



Water



What is left by a glacier? Where do we find glaciers?



Cirque in Newfoundland, Canada



Striding Edge, England



Matterhorn Peak, Switzerland

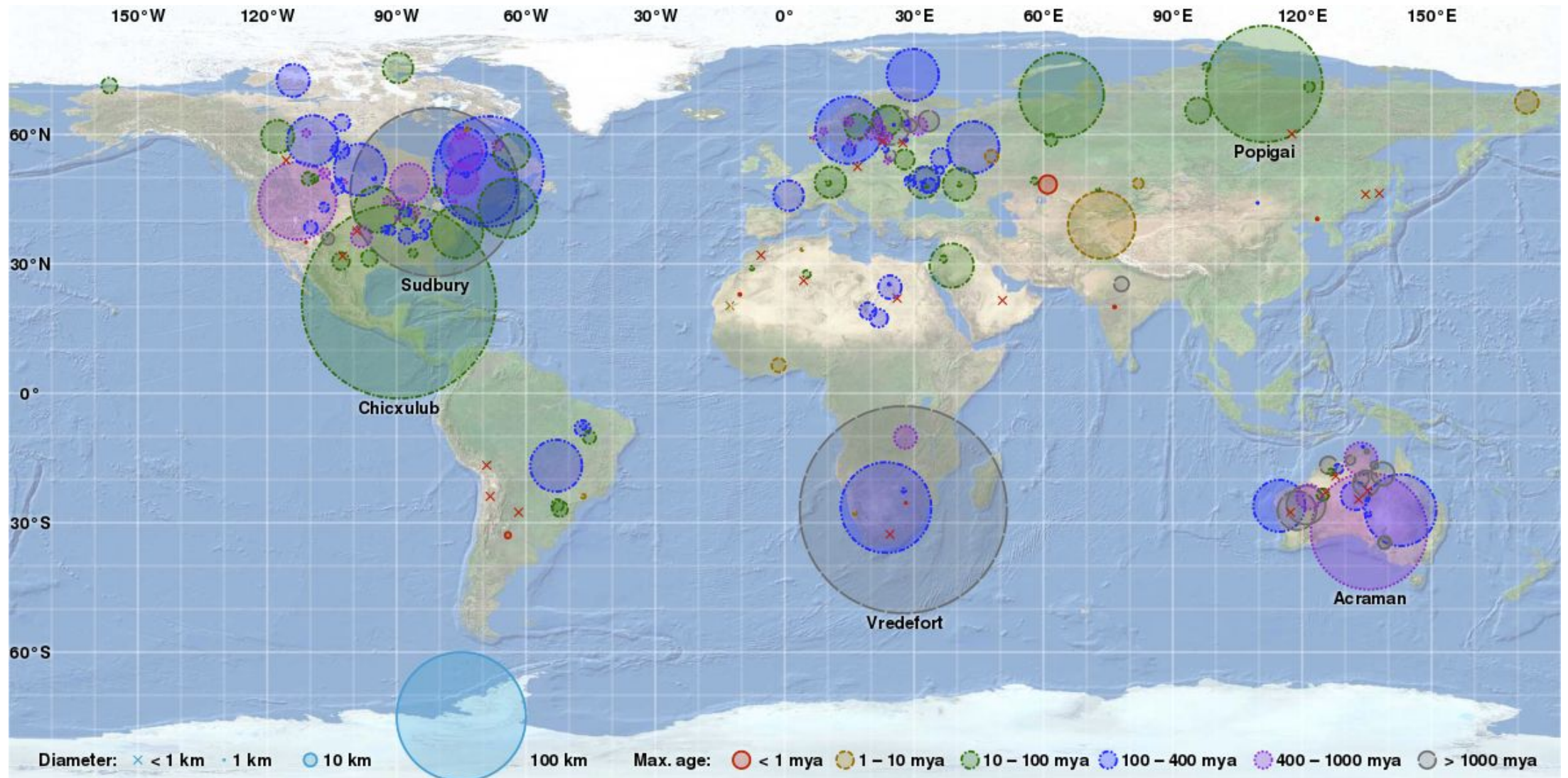


Silver Glacier, Washington State



Perito Moreno Glacier, Argentina

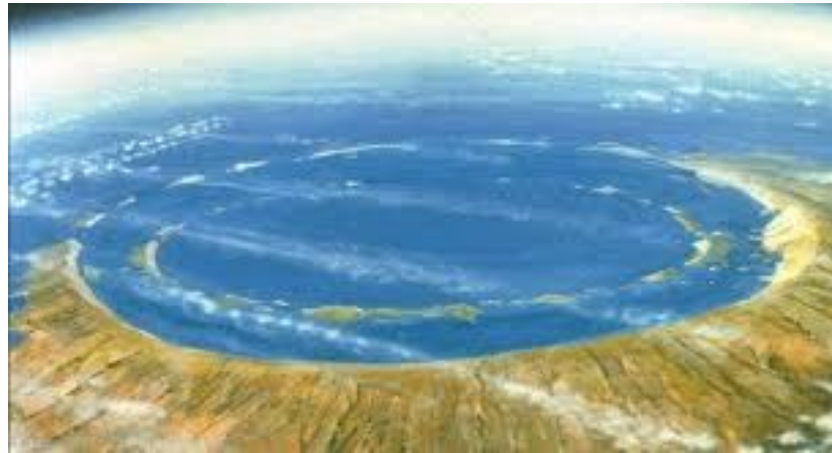
Where do we find craters?



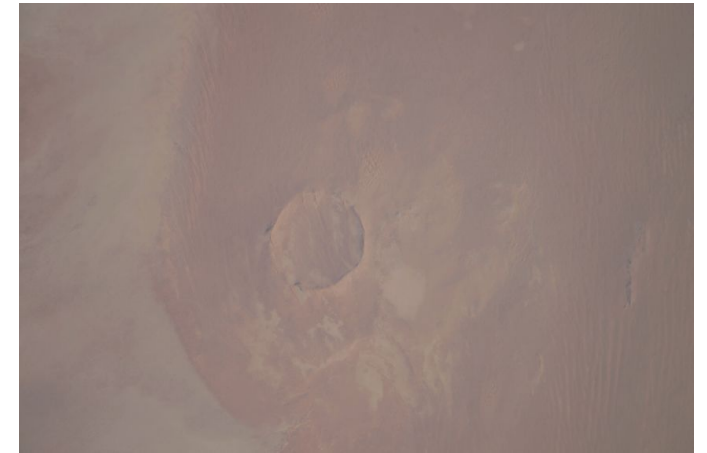
Where do we find craters?



Meteor Crater, Arizona

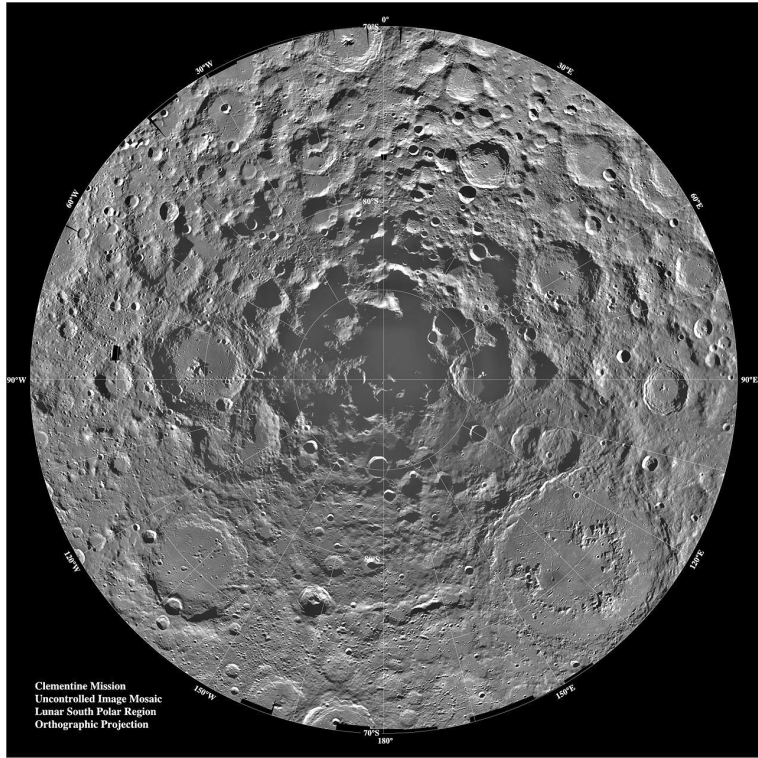


Chicxulub crater, Mexico

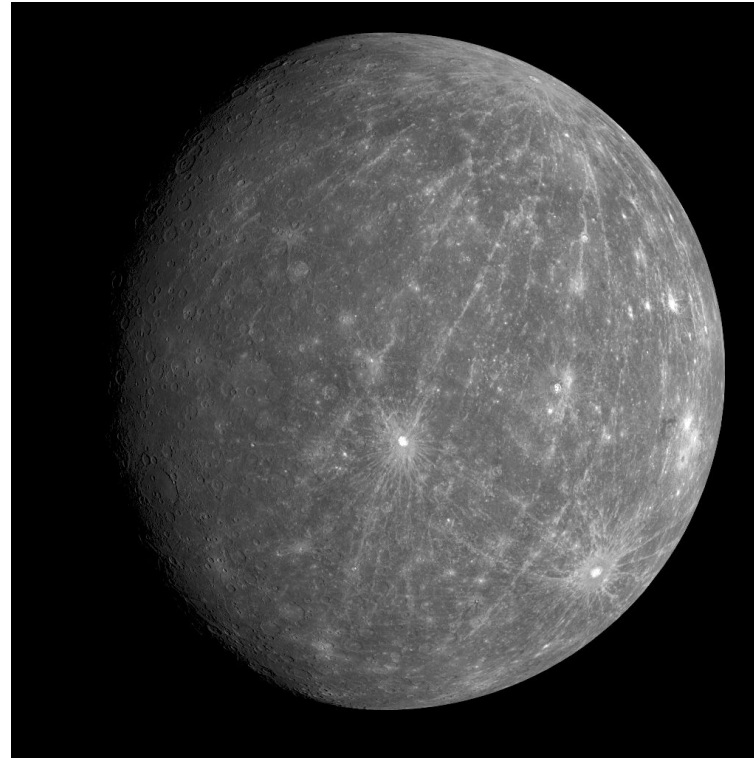


Namib crater, South Africa

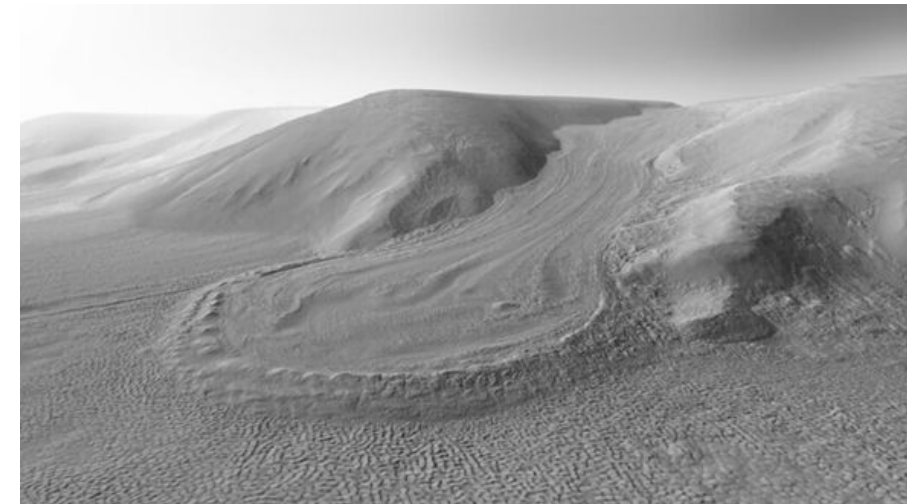
Out of this world! Examples



Earth's Moon



Mercury



Mars

Overview of Glacier Moving Experiment



Overview of Creating Craters Experiment

mass, shape, velocity, and angle of impactors affects the size and shape of the crater

- impact craters are caused when an impactor collides with a planet or moon.
- A crater's size and features depend on the mass, velocity, and incoming angle of the impactor.
- Impact craters provide insights into the age and geology of a planet's surface

EXPERIMENT TIME!!!!

Glacier Movement Speed

How far did everyone's glaciers move?

Meteor shower



Next Peak night
Apr 21-22, 2021

Lyrids

Next period of activity: April 16th, 2021 to April 30th, 2021

The Lyrids are a medium strength shower that usually produces good rates for three nights centered on the maximum. These meteors also usually lack persistent trains but can produce fireballs. These meteors are best seen from the northern hemisphere where the radiant is high in the sky at dawn. Activity from this shower can be seen from the southern hemisphere, but at a lower rate.

Shower details - **Radiant:** 18:04 +34° - **ZHR:** 18 - **Velocity:** 30 miles/sec (medium - 48.4km/sec) - **Parent Object:** C/1861 G1 (Thatcher)

Next Peak - The Lyrids will next peak on the Apr 21-22, 2021 night. On this night, the moon will be 68% full.