

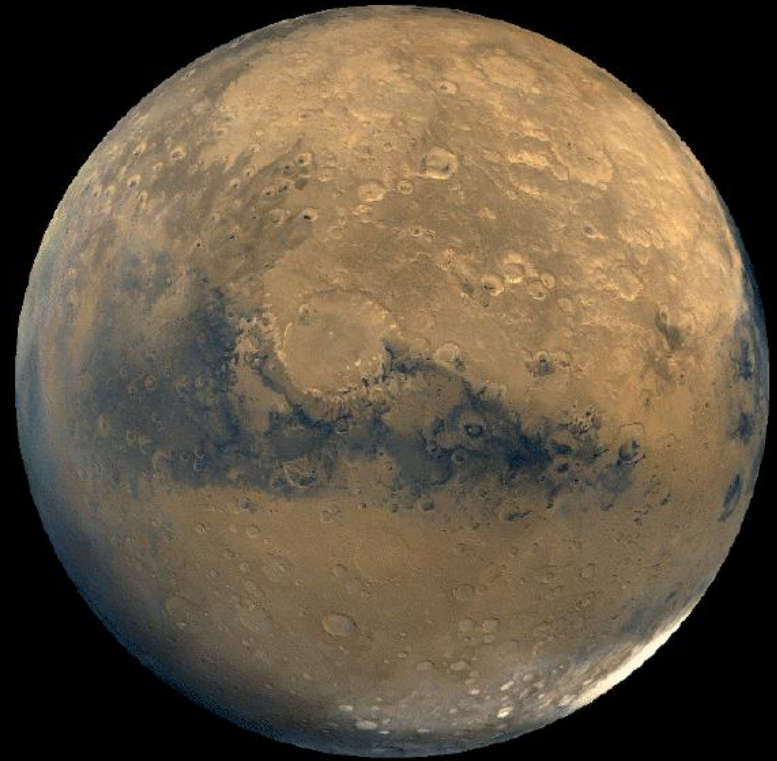
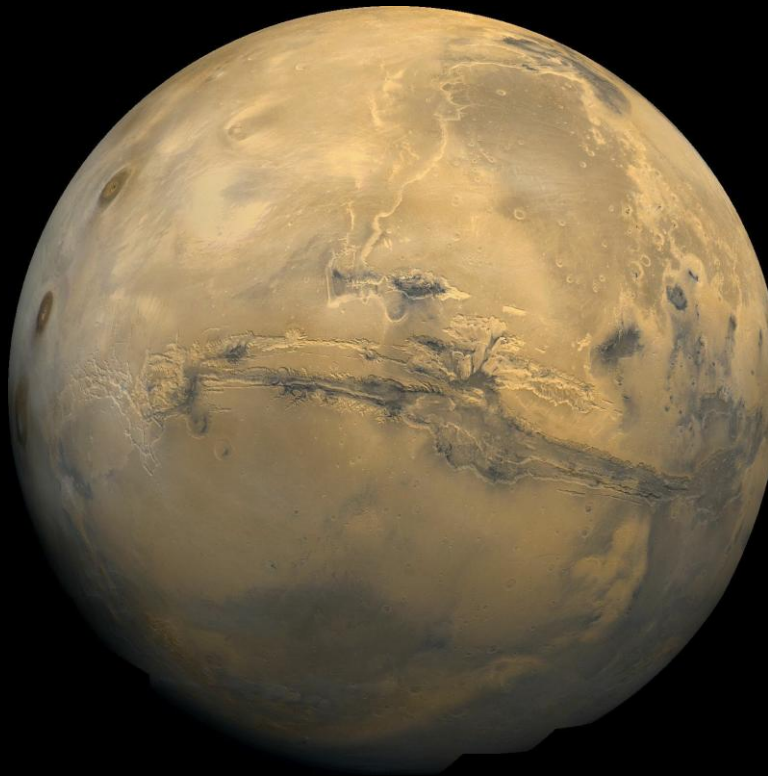
Earth and Mars Comparison

Here is a picture of Earth, what do you see?

Earth



Views of Mars



Here are a couple pictures of Mars, what do you see?

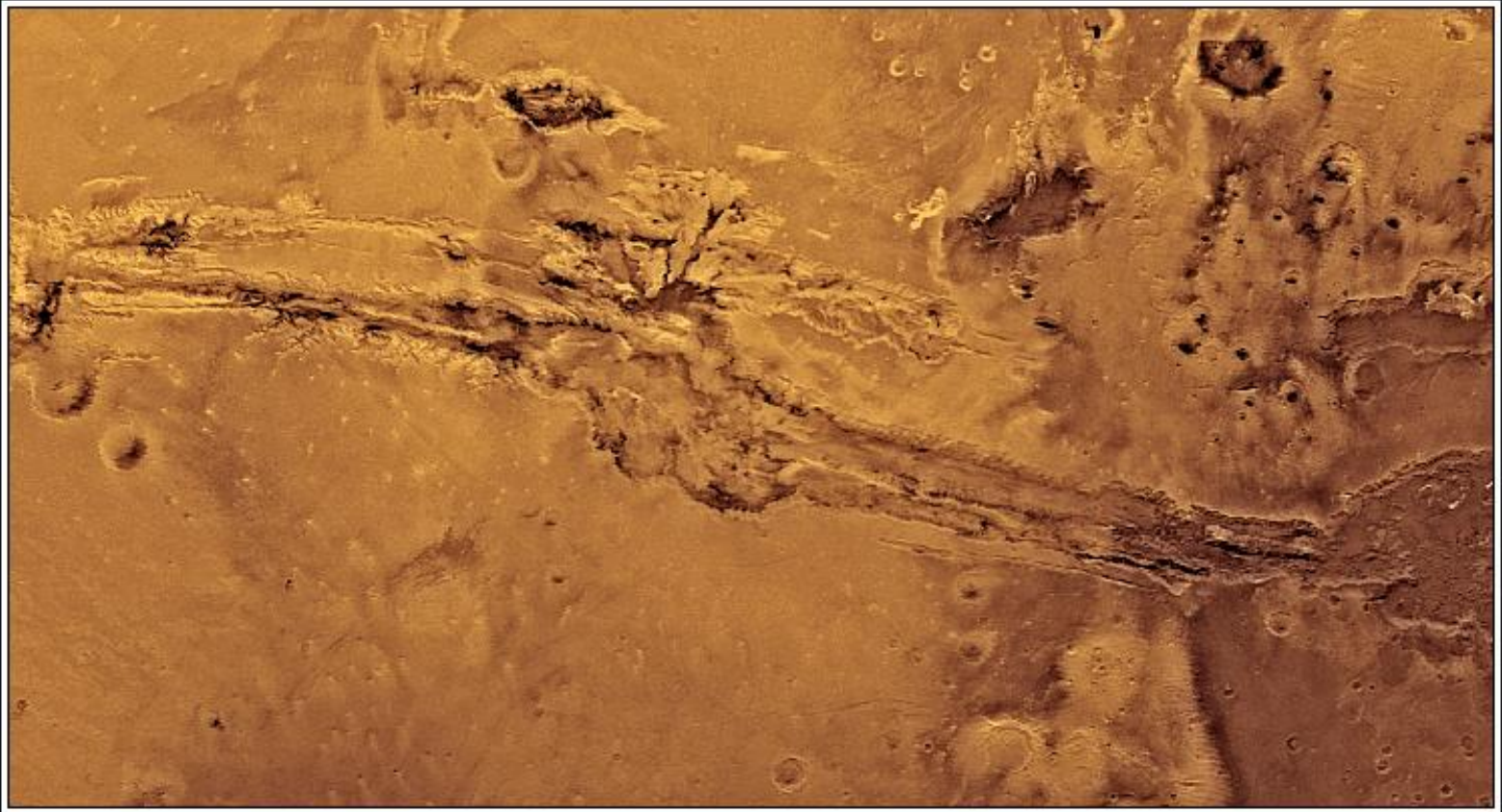
1. What surface features do Earth and Mars share in common?

2. How are they different?

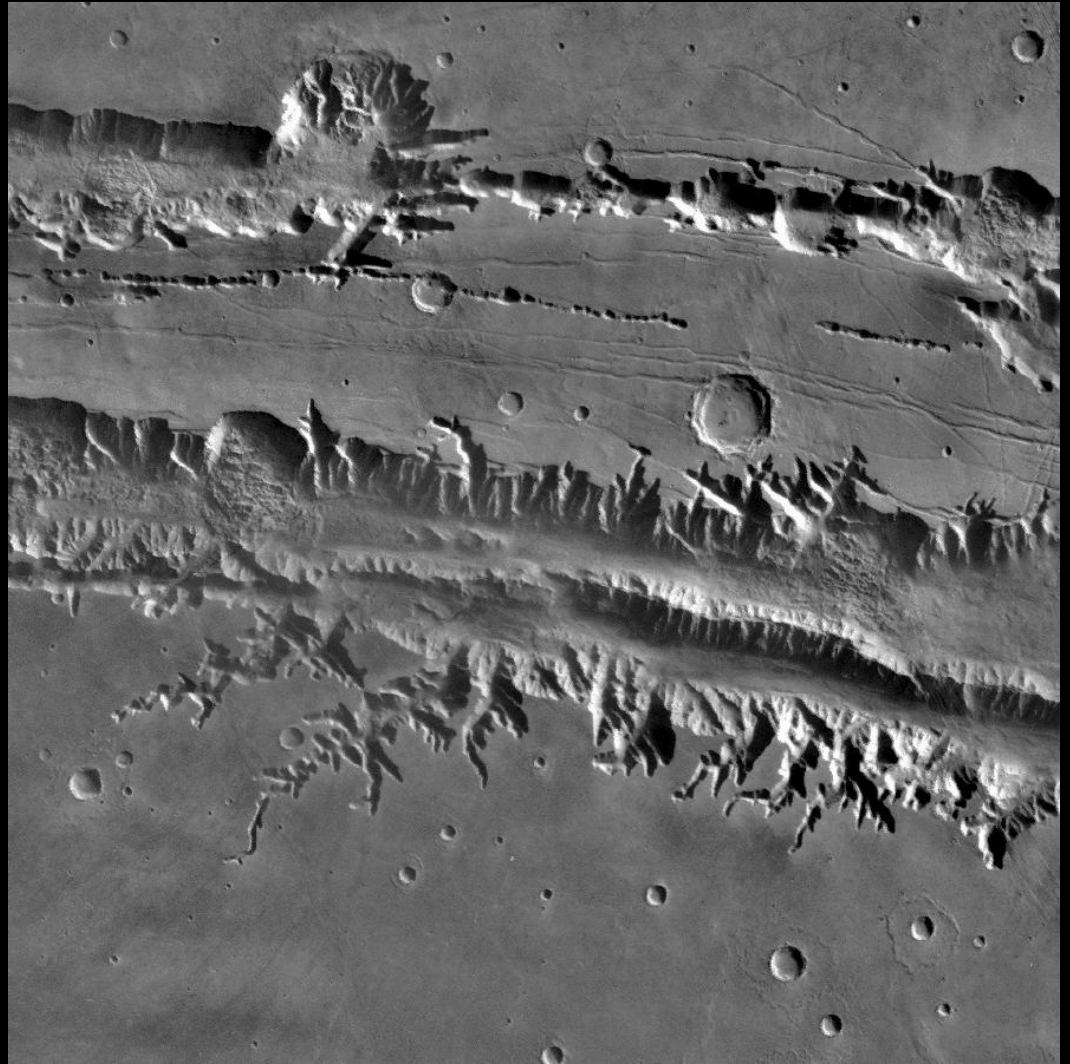
Valleys and Canyons

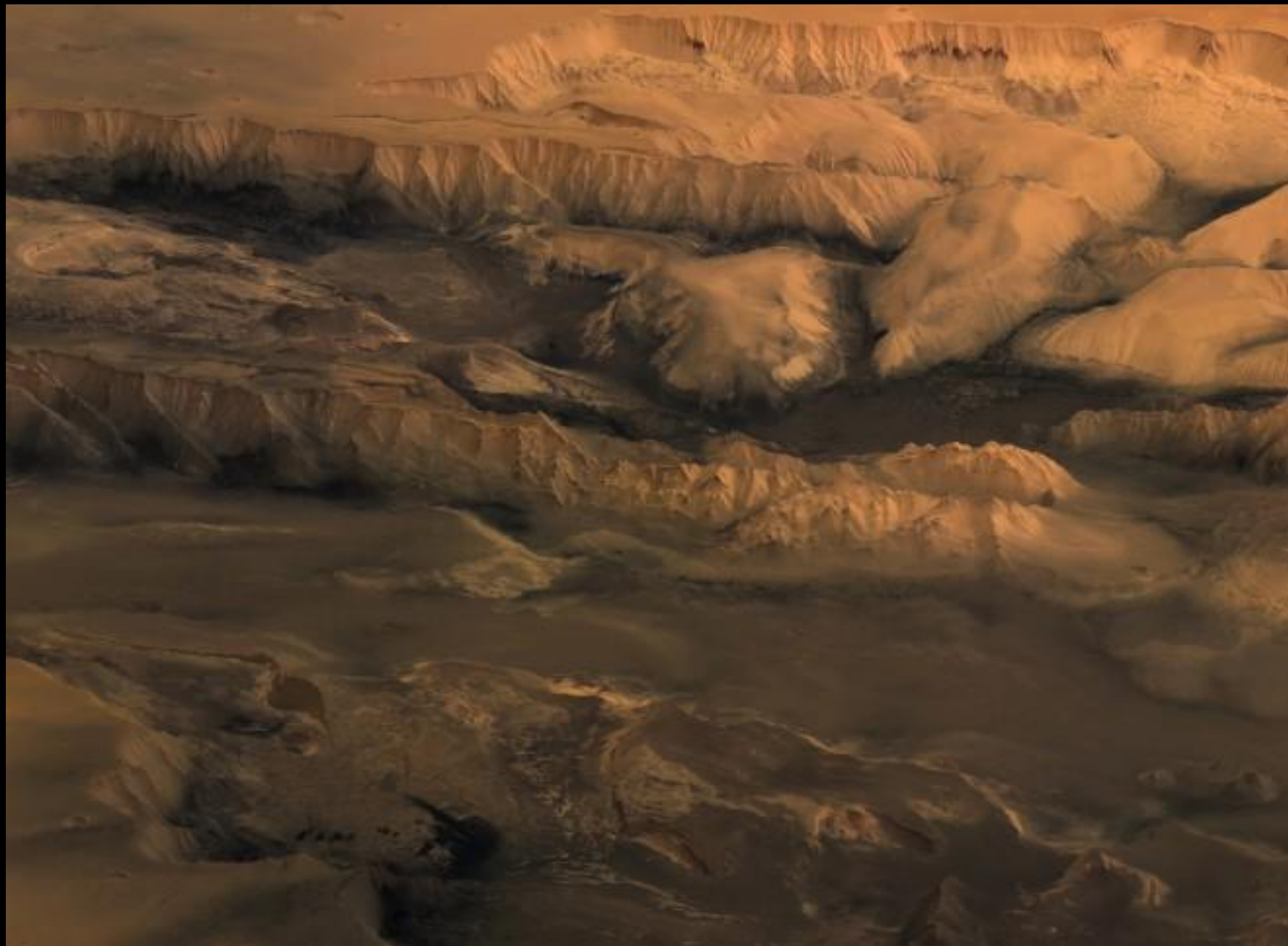
Are there different kinds of valleys?

Valles Marineris

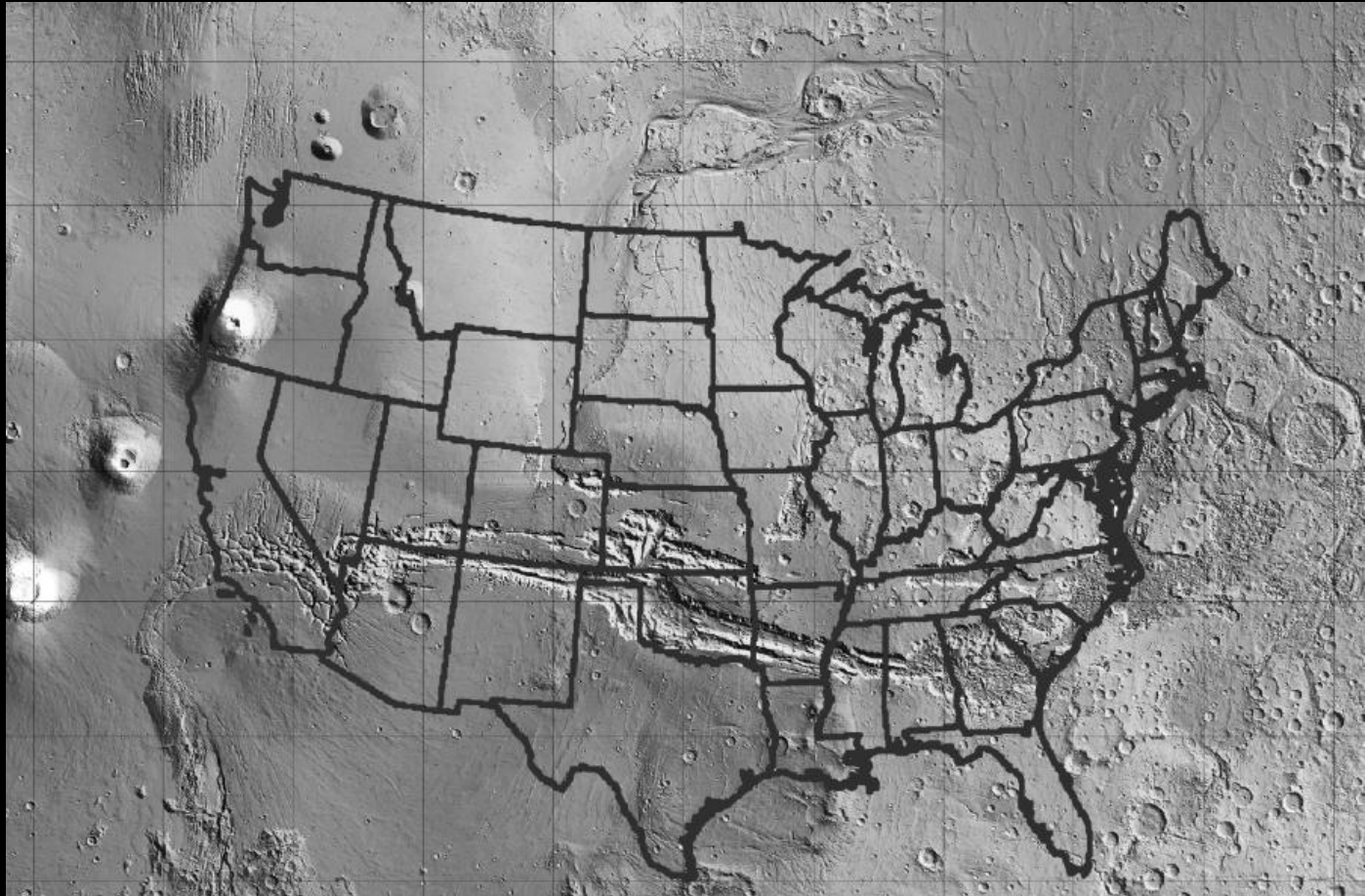


Valles Marineris Close-up

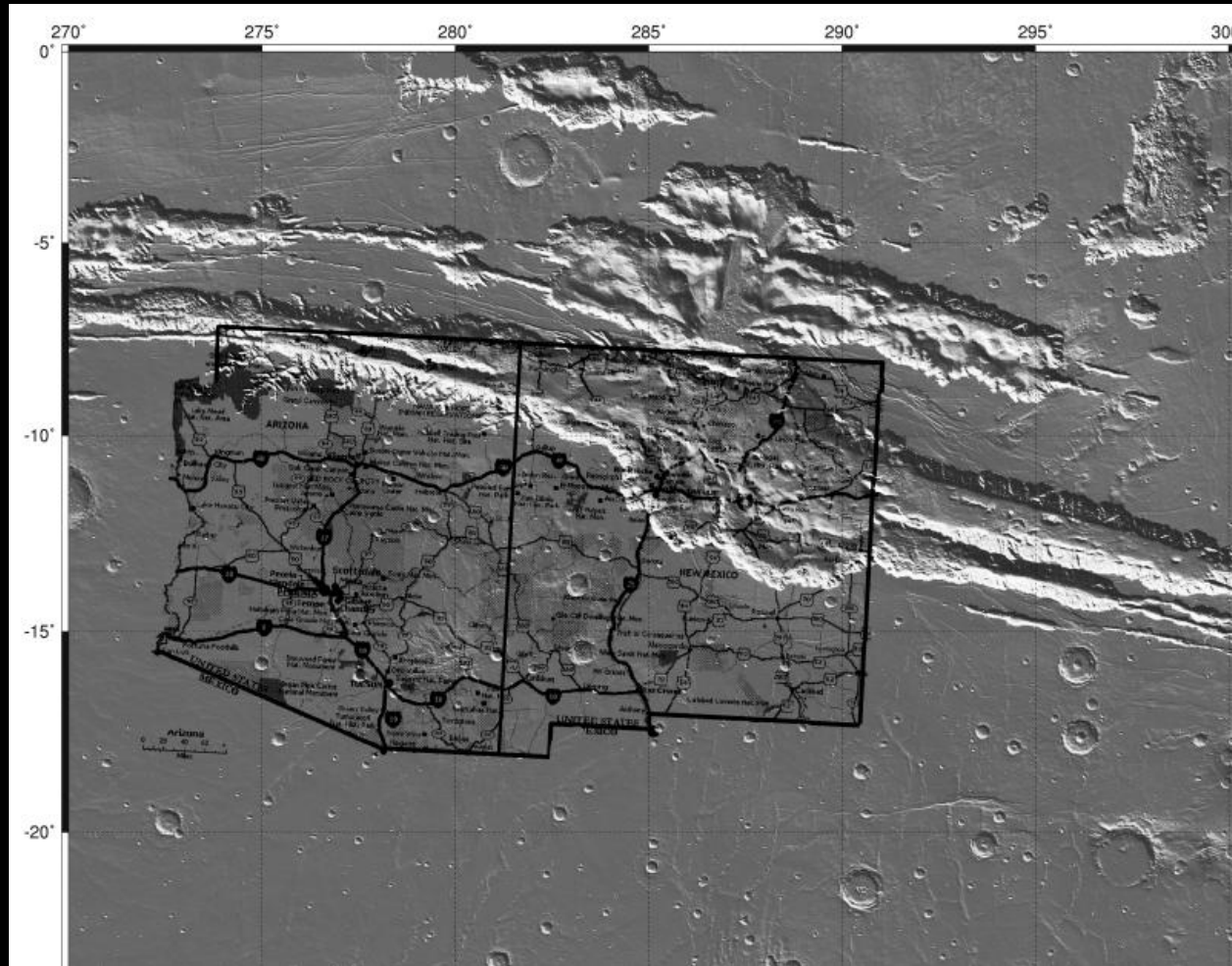




Valles Marineris vs. USA



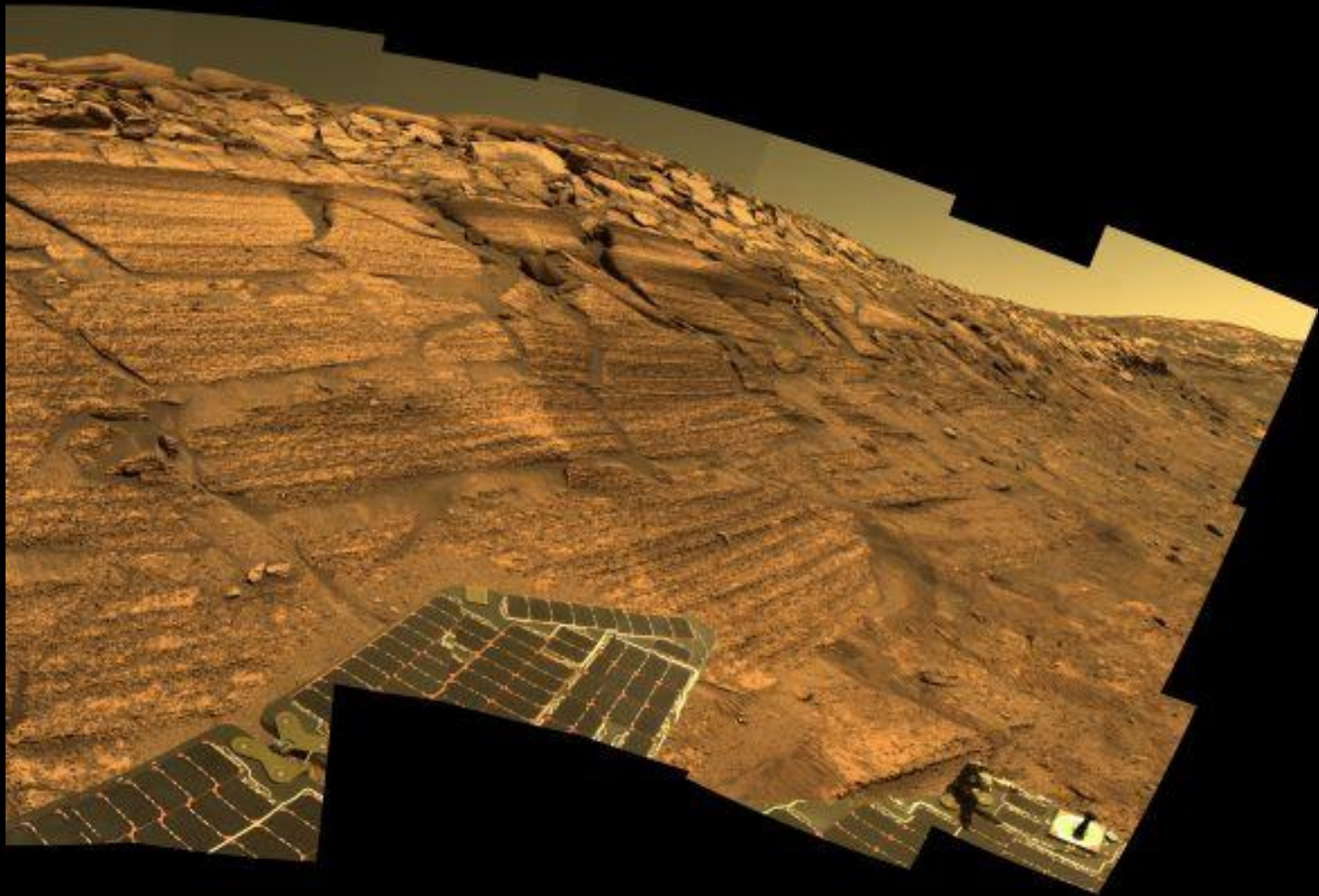
Valles Marineris vs. Arizona



Grand Canyon



Side of a crater on Mars as viewed by one of the rovers.



Hints of Ancient Flowing Water



If there is no water on Mars, how were the valleys or channeled formed?



Valley Network on Earth

By what processes
are valleys formed
on Earth?



Volcanoes

Mount St. Helens from Space



Olympus Mons



Olympus Mons vs. Mauna Loa



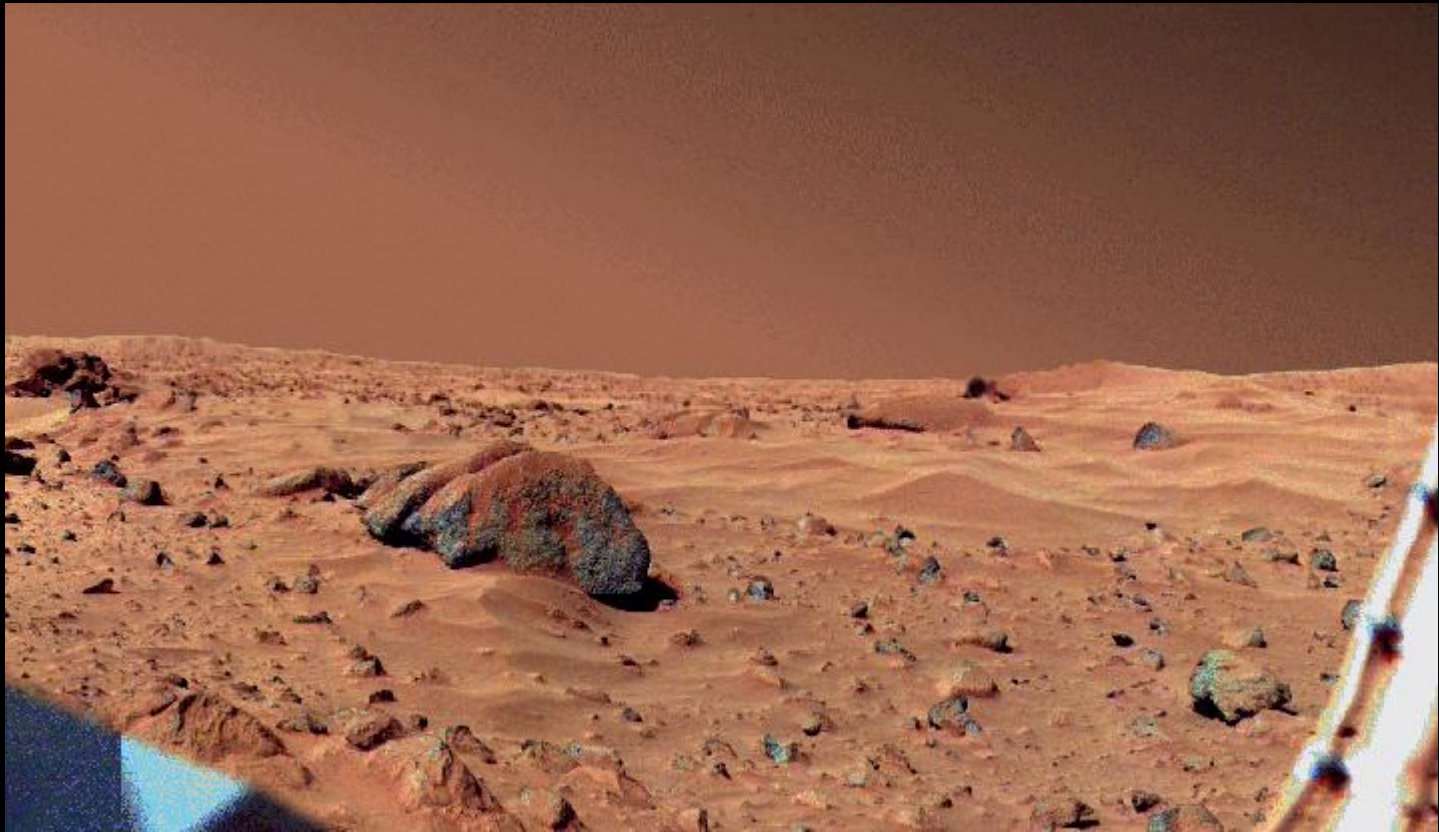
Why are the Olympus Mons and Valles Marineris so large in comparison to similar features on Earth?

Plains



Heat shield and first bounce

Mars Surface View



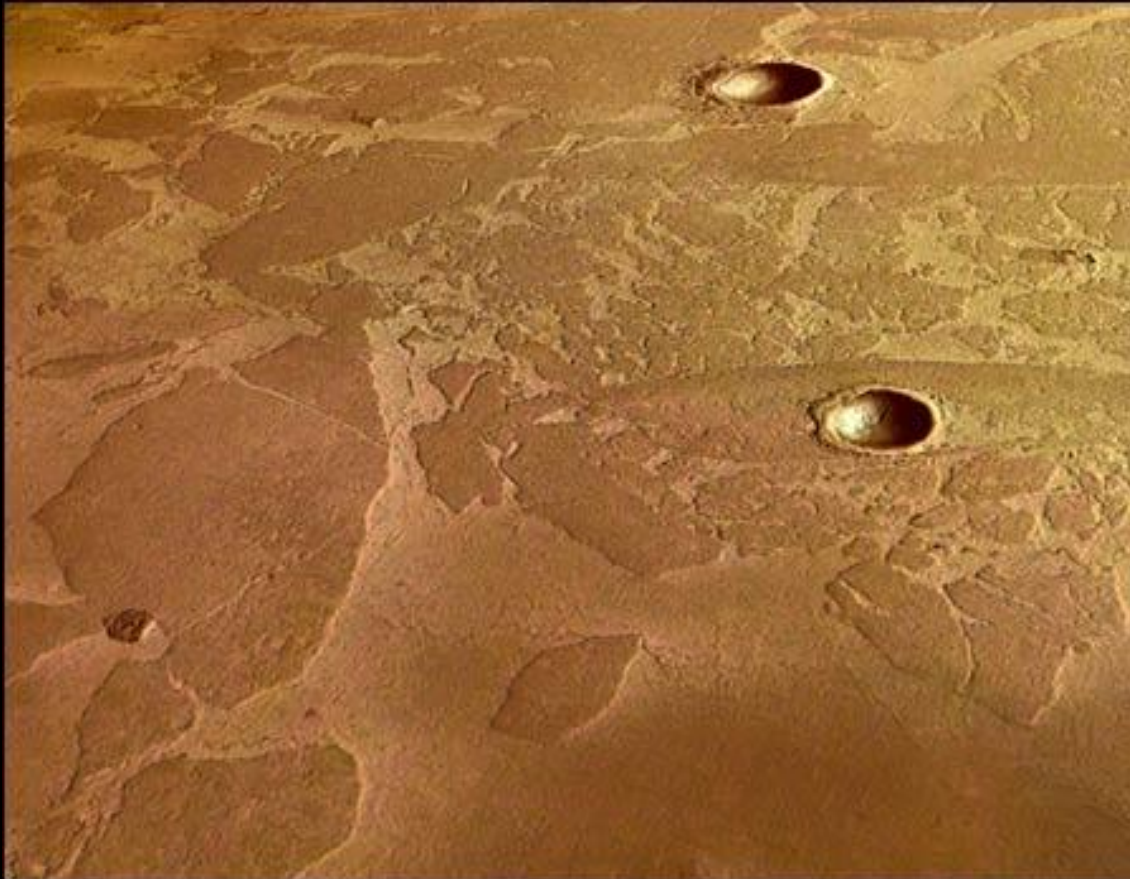


Earth Plains



What happened to the water on Mars?

Martian Frozen Lake?



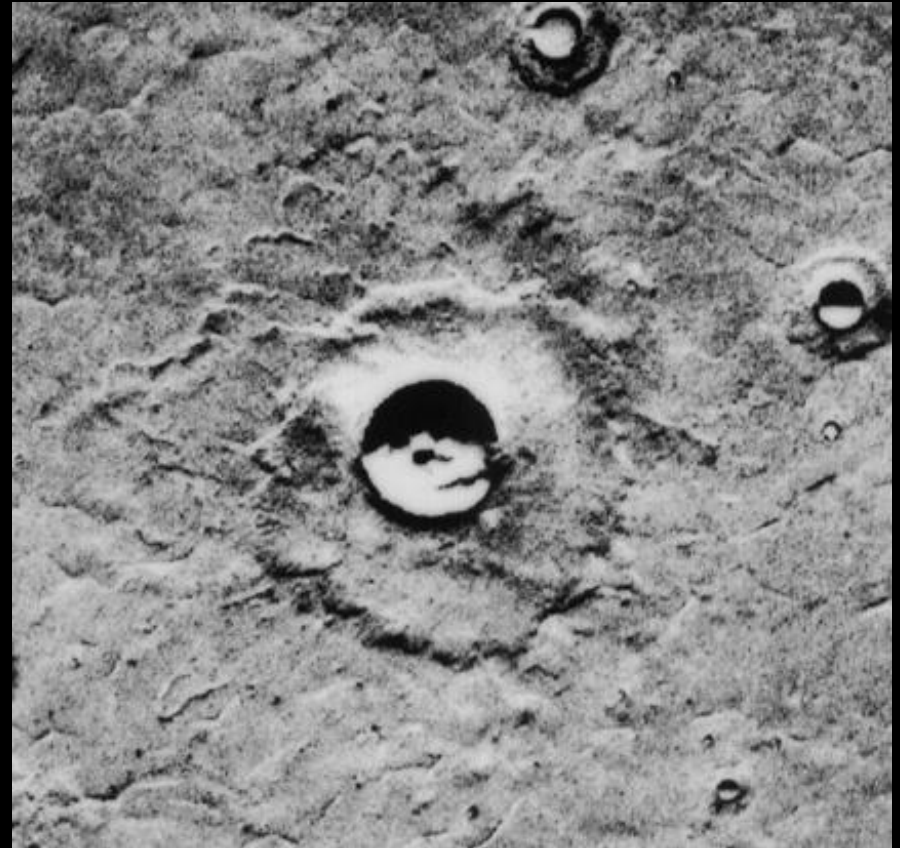
Earth Sea Ice



Hints in the craters

Rampart Craters

- These are unique to Mars and are due to frost heaves from water trapped as ice in the Martian soil.



Another clue: Hematite

- This kind of **hematite** (an iron ore) only forms in water. This insinuates that Mars had to have flowing water at one point in order to make it.
- This picture was taken by one of the rovers on the surface of Mars.

