

Planetary Geology

(Astrogeology)

The science related to geology of planets and their moons, asteroids, comets, and meteorites

Image of Titan's Surface (Saturn's moon)

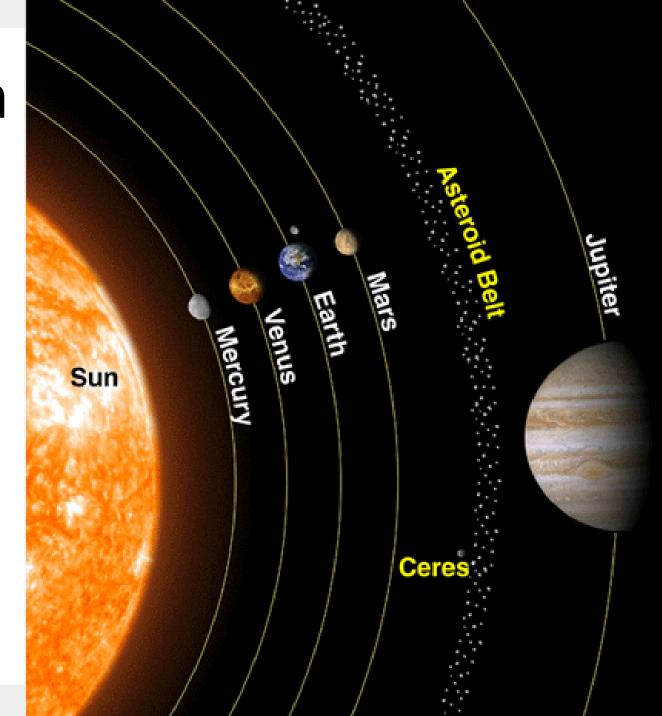


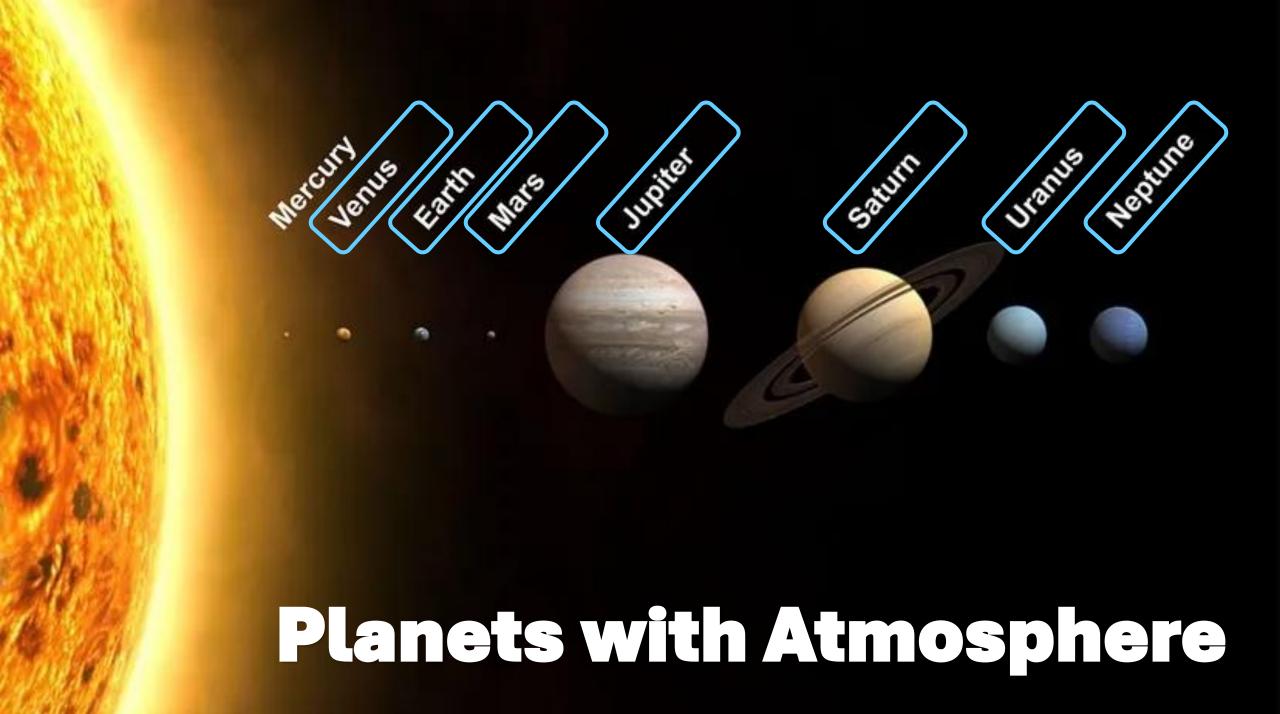
By ESA/NASA/JPL/University of Arizona; processed by Andrey Pivovarov

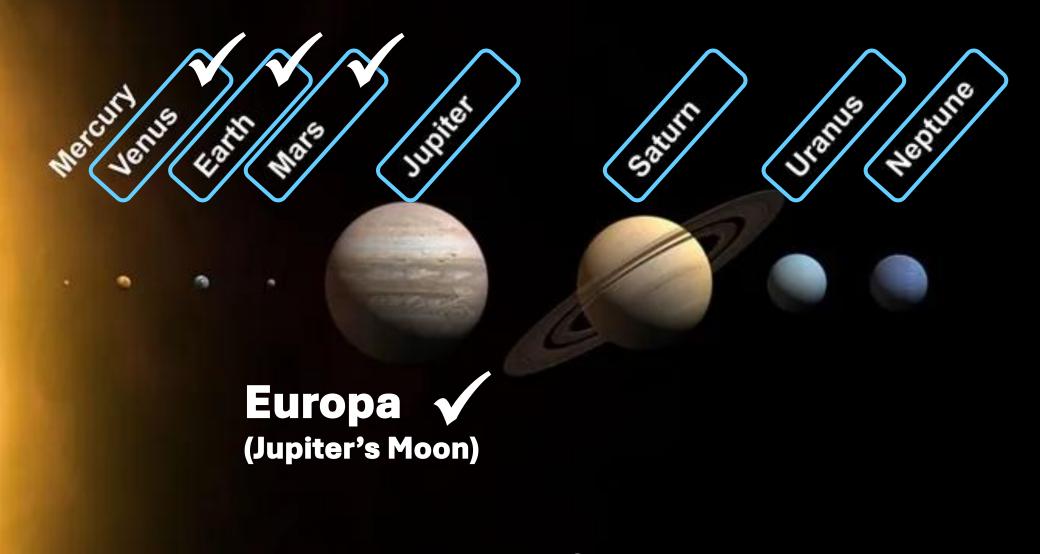
Inner Solar System Planets

All have similar geology

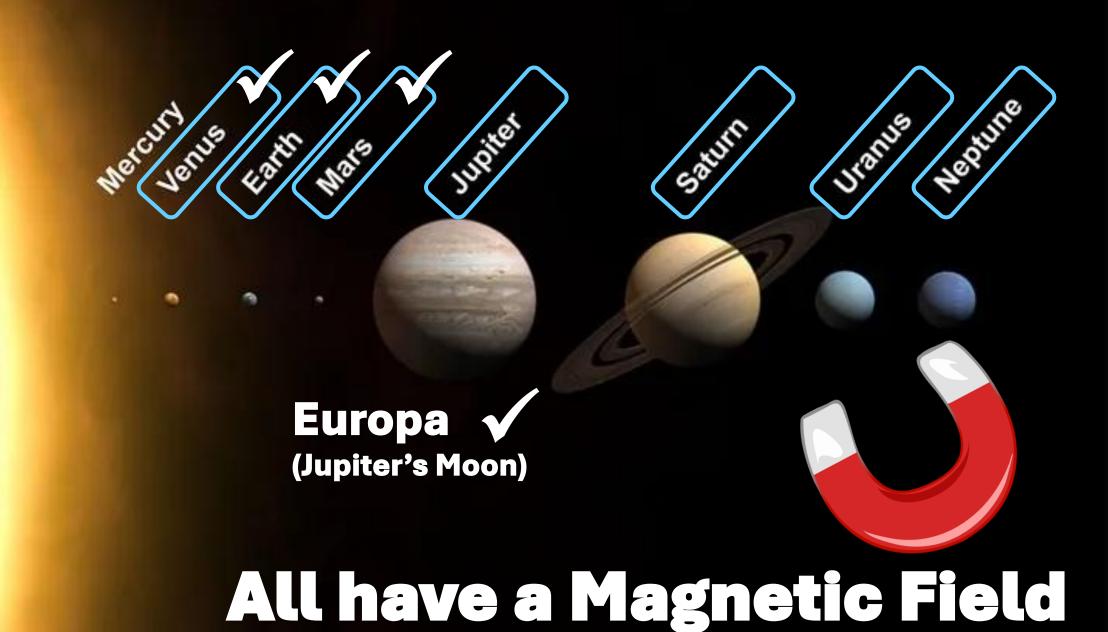
- 1. Volcanism (Basaltic lava)
- 2. Tectonics
- 3. Impact Craters
- 4. Fluvial or Aeolian Processes

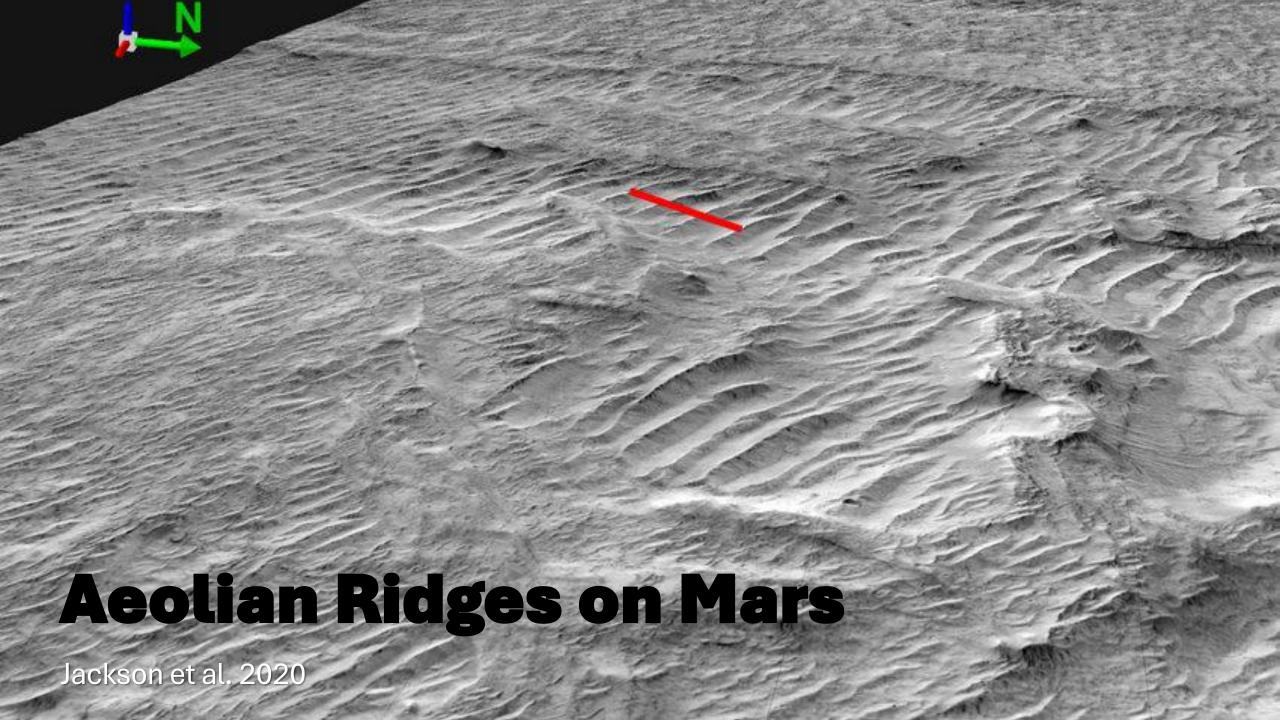






Planets with Oxygen







Venus

Colours represent elevation

faults folds

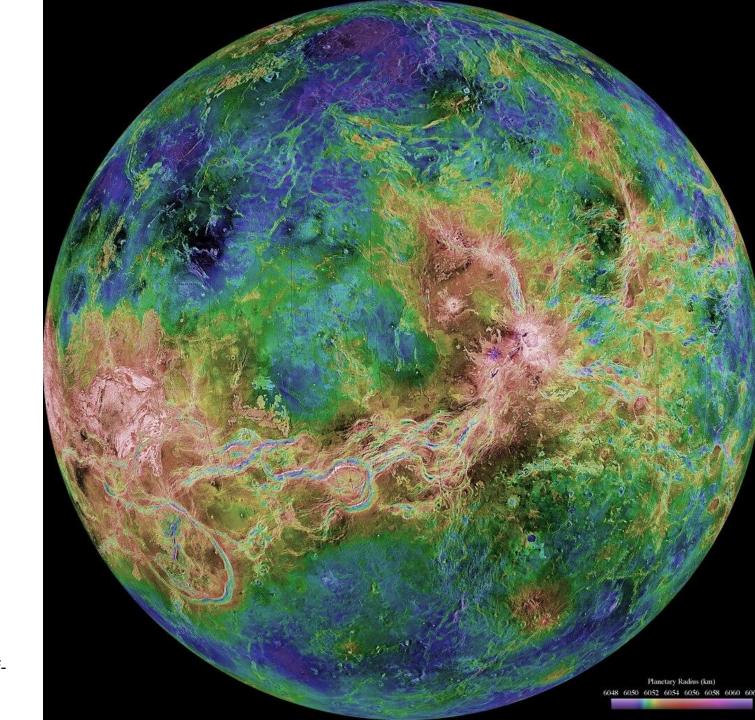
mantle convection

shield volcanoes

lava flow

chemical weathering

NASA/JPL/USGS - https://solarsystem.nasa.gov/resources/486/hemispheric-view-of-venus/?category=planets_venus



Venus

surface covered in fine particles < 0.02 mm

erosion only by wind (no water or ice)

