

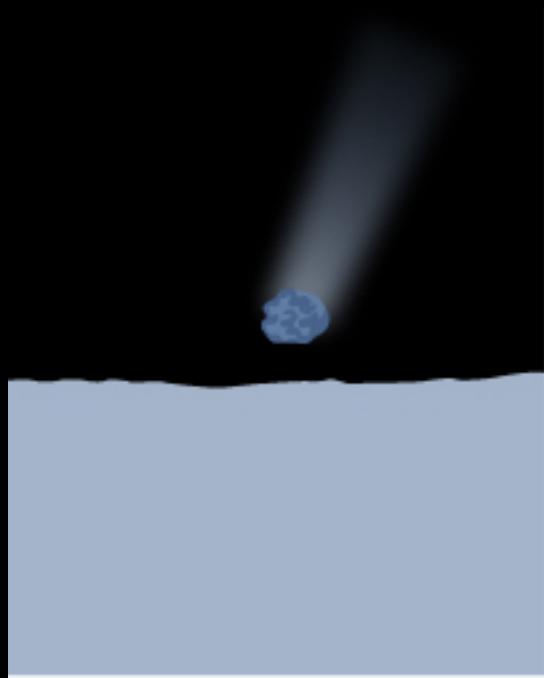
Exam review

Overview of topics

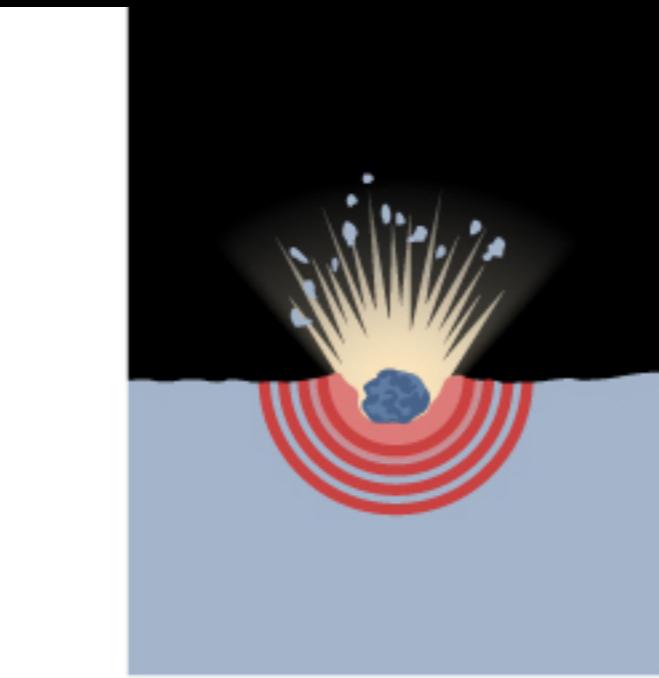
1. Planetary surfaces
2. Volcanism
3. Solar system formation
4. Planetary atmospheres
5. Greenhouse effect
6. Global warming
7. Planet interiors
8. Planetary magnetic fields
9. The eight planets
10. Moons of the solar system

Planetary surfaces

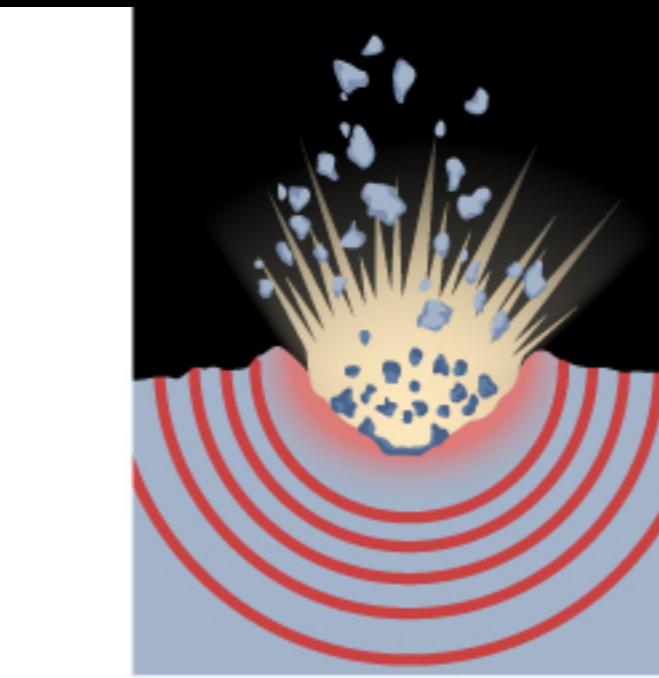
- What features do we see?
- What shapes them?
- How do we test their ages?



(a)



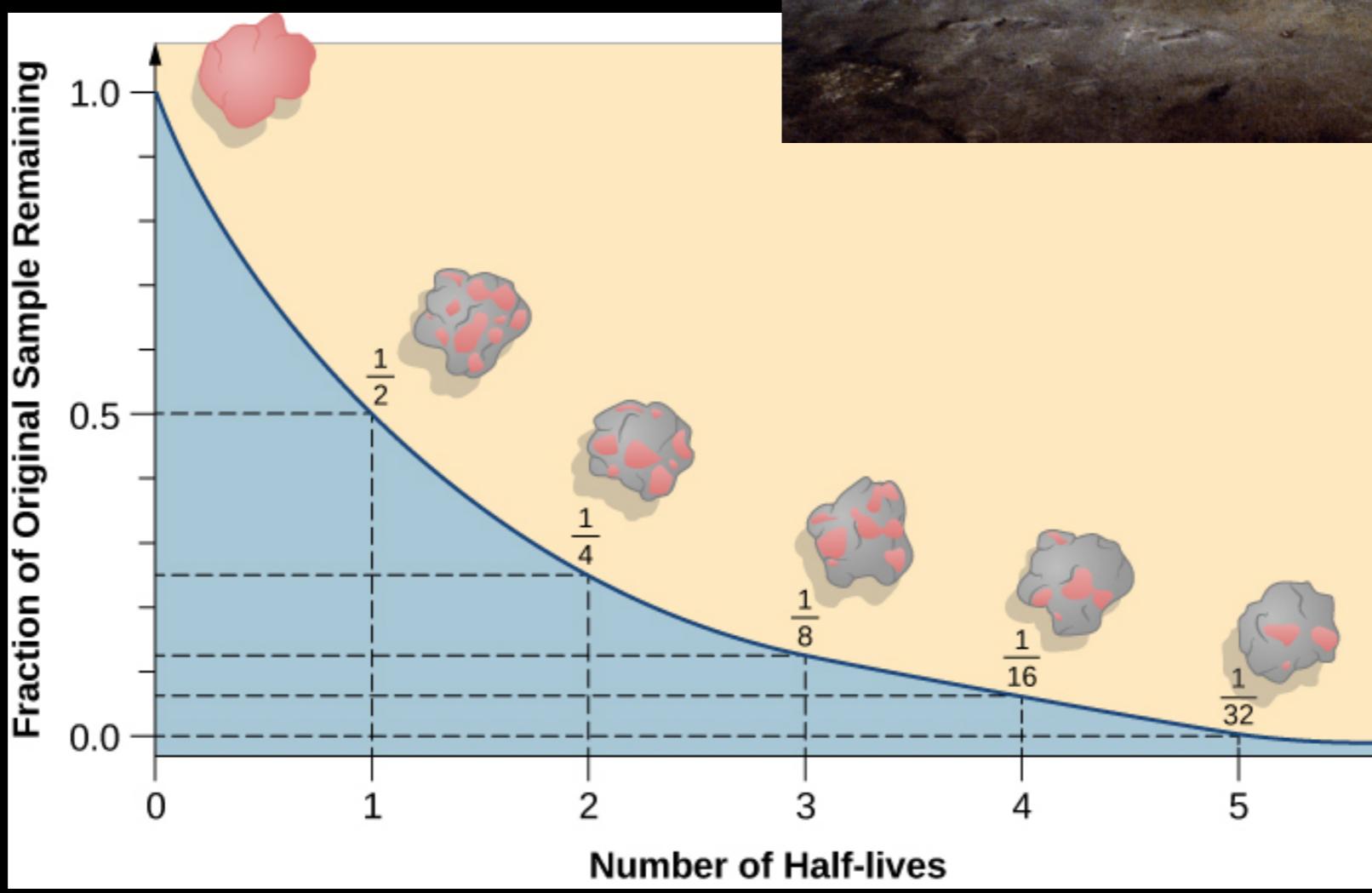
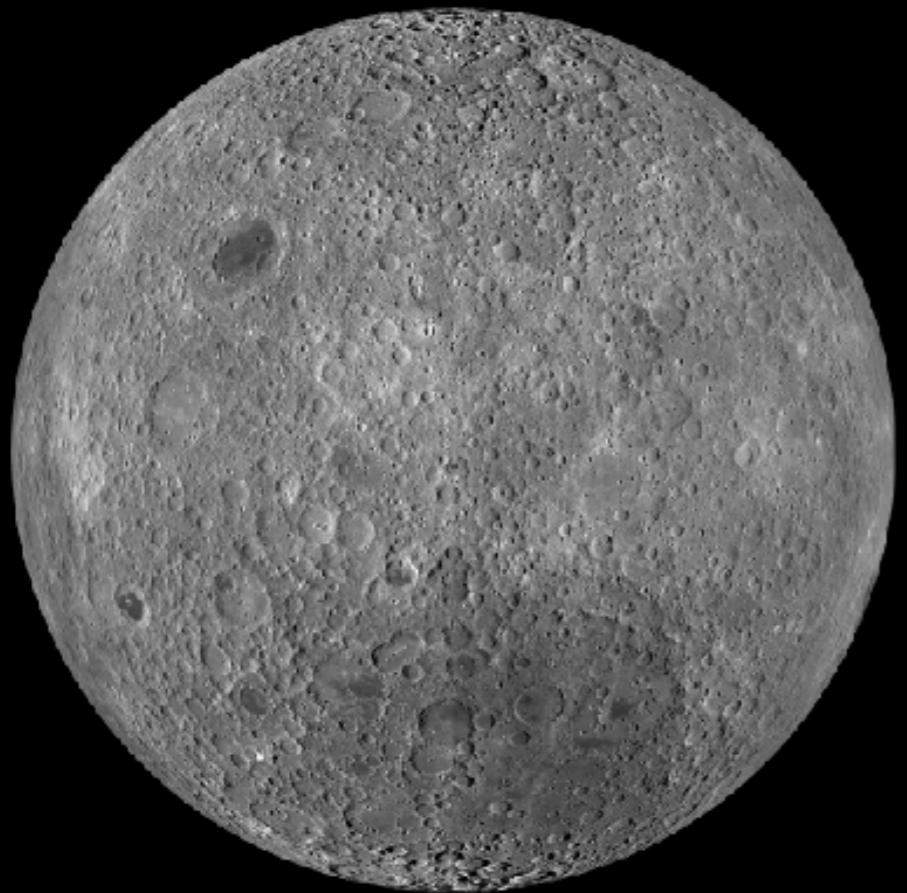
(b)



(c)

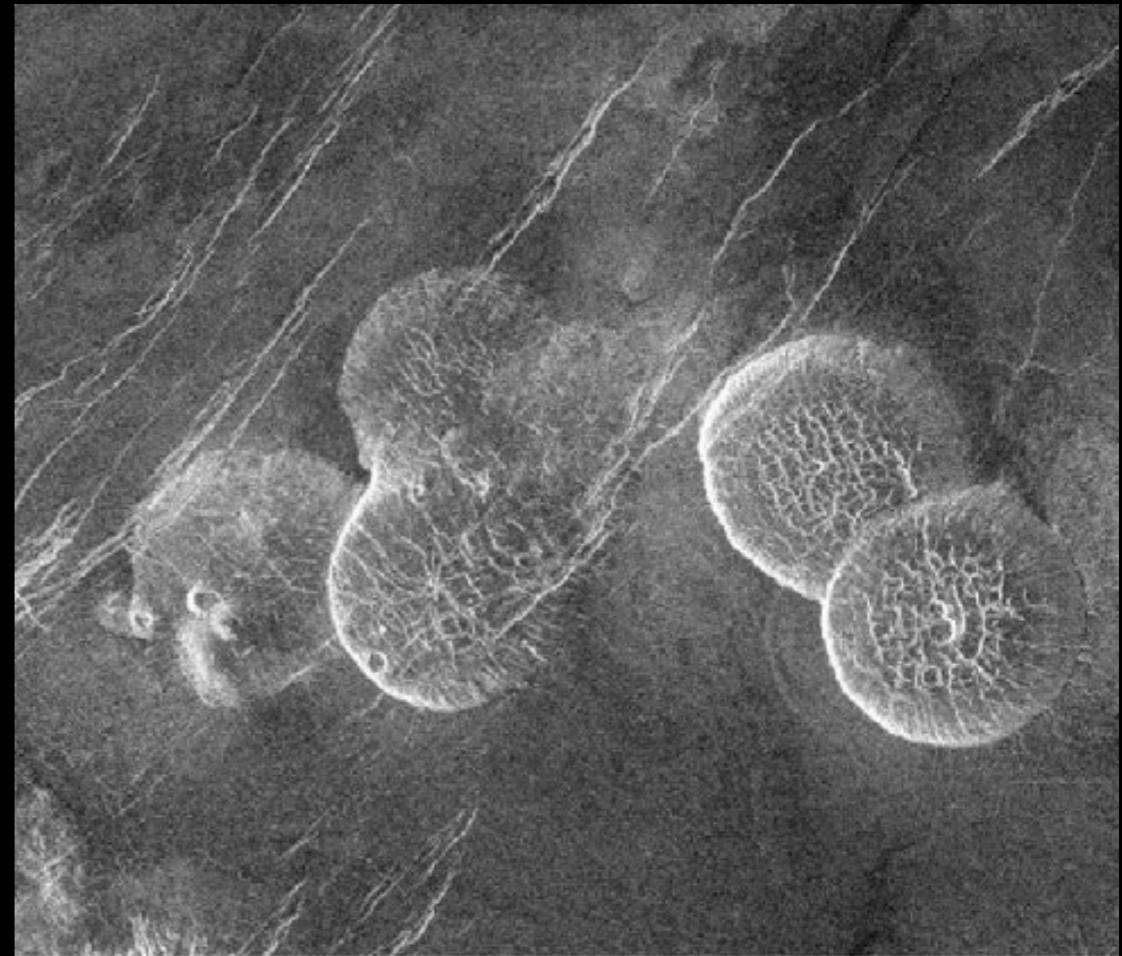


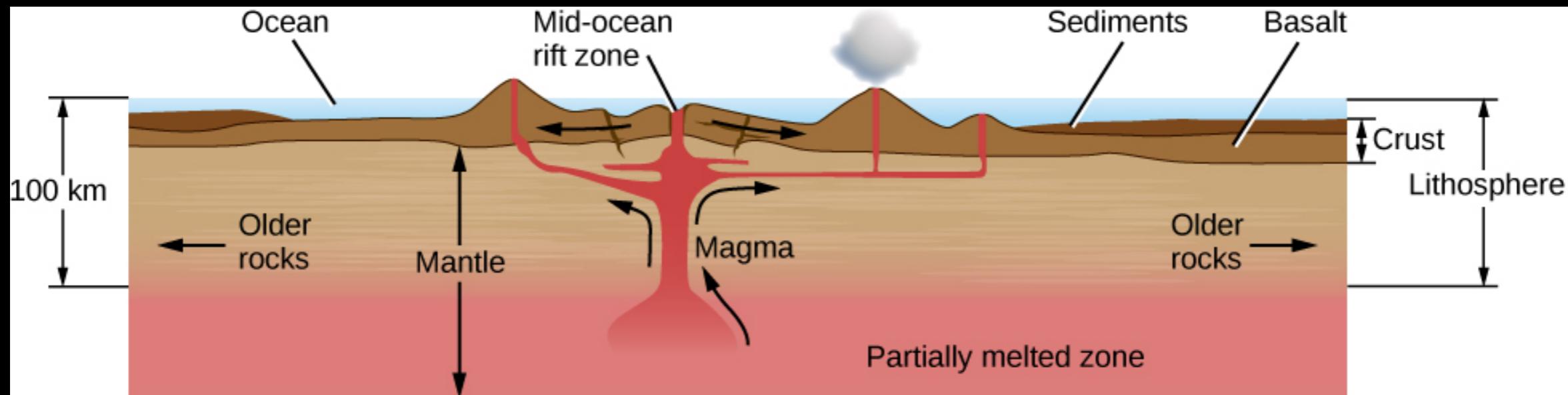
(d)



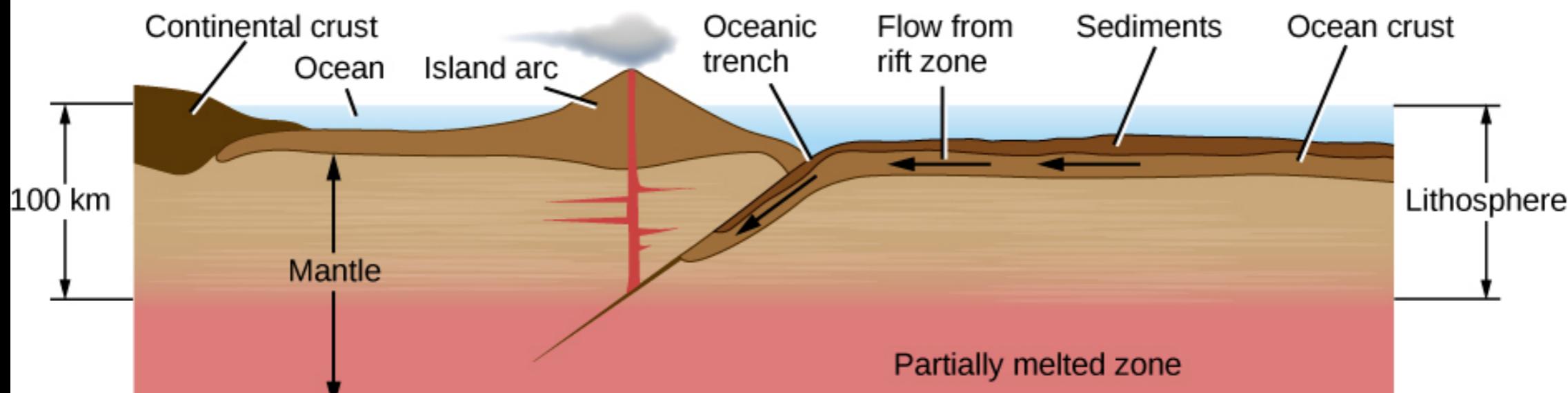
Volcanism

- What causes it?
- Which planets/moons?
- What are some effects?





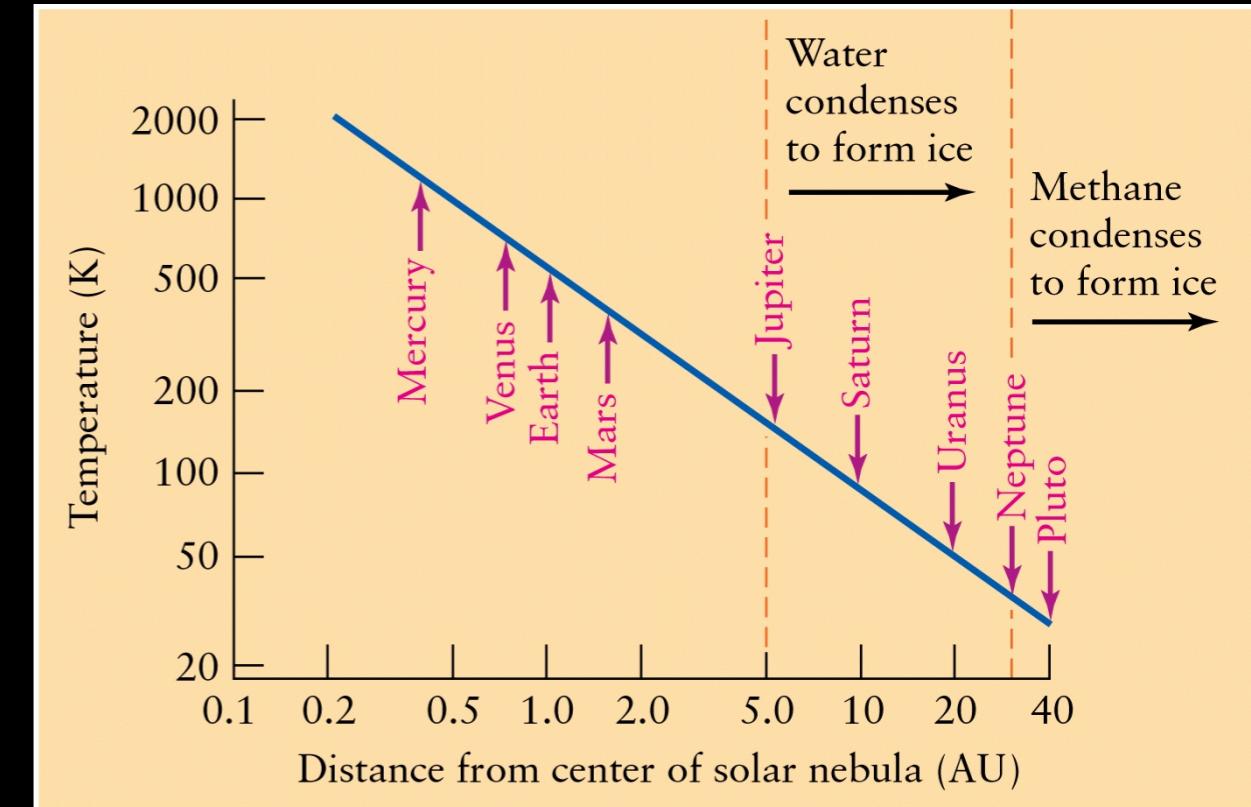
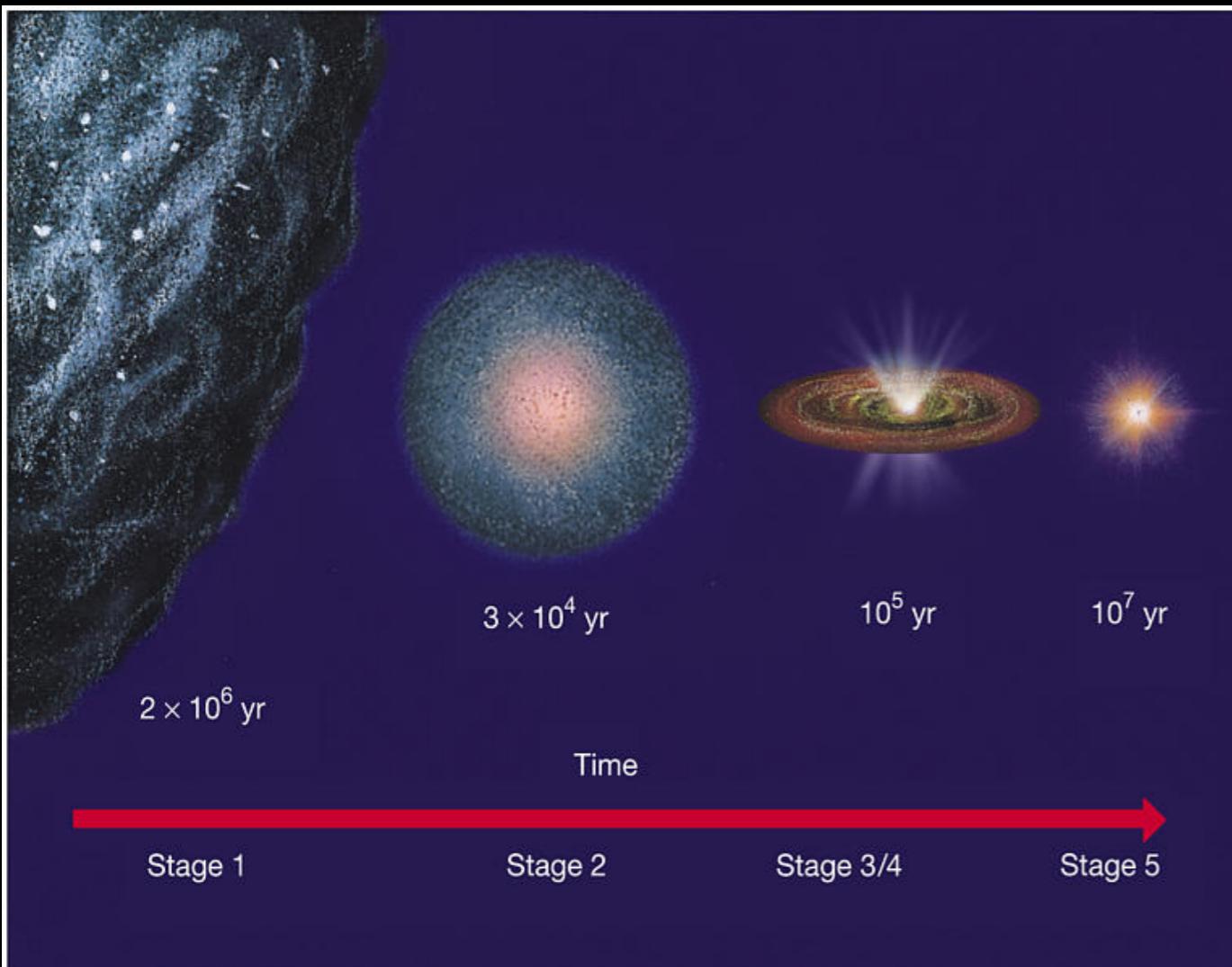
Rift zone



Subduction zone

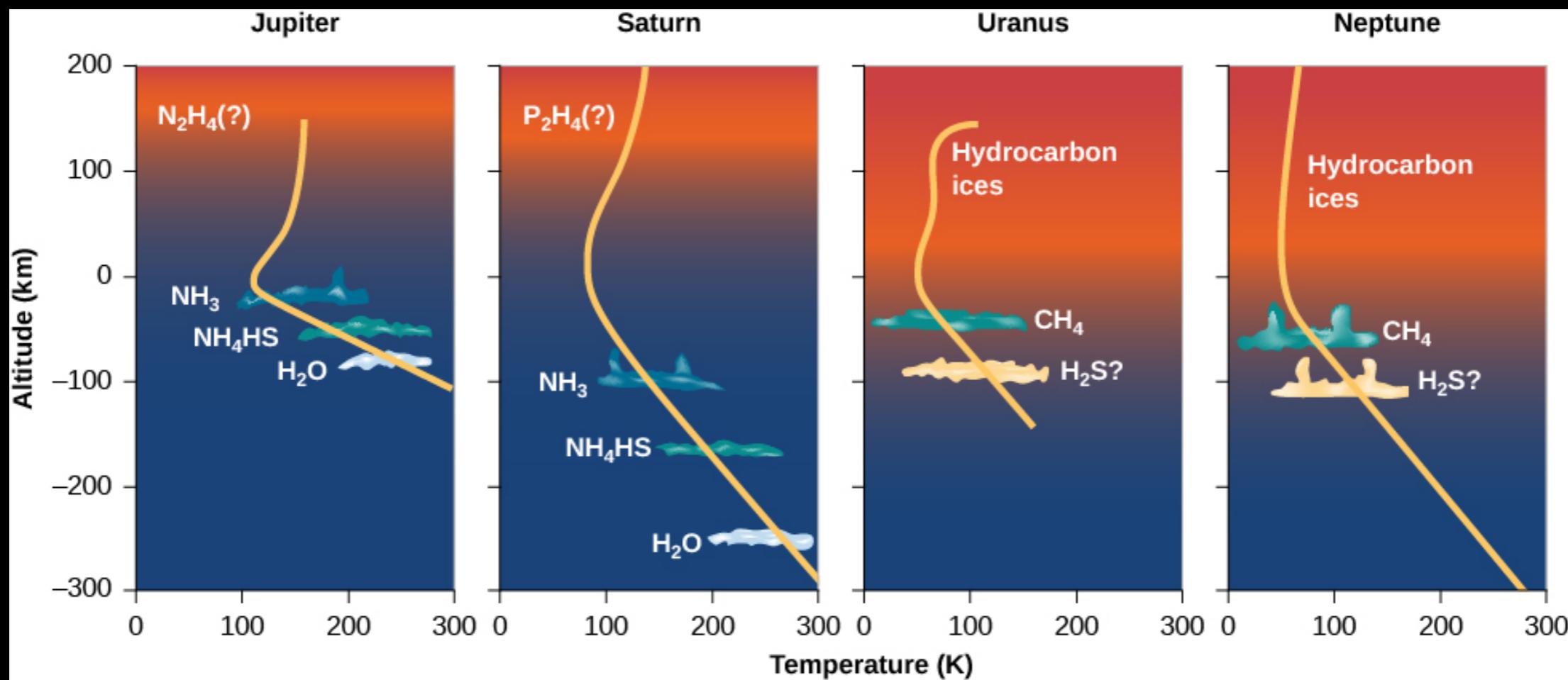
Solar system formation

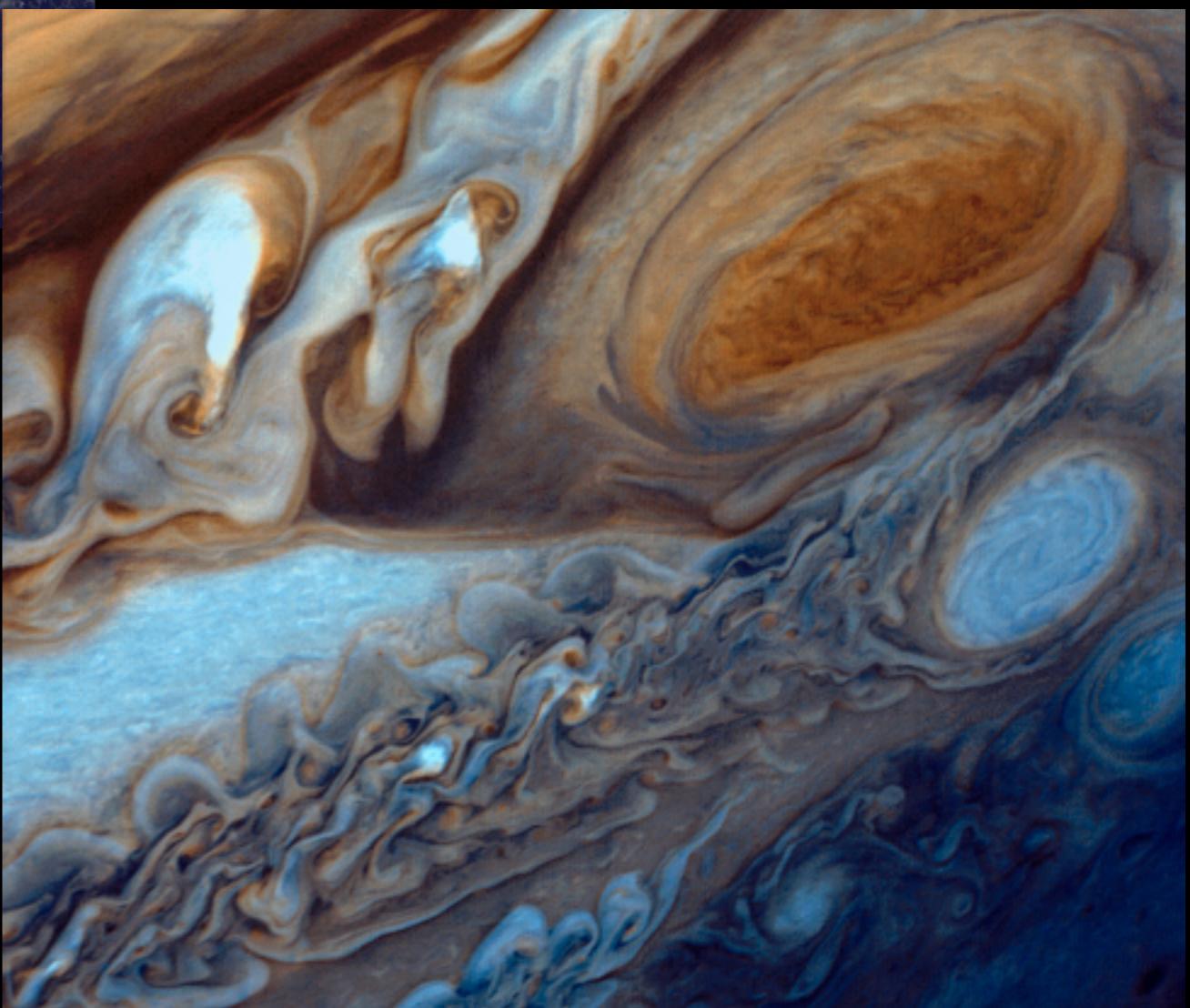
- What was there at the beginning?
- What were the major steps?
- What were temperatures like?



Planetary atmosphere

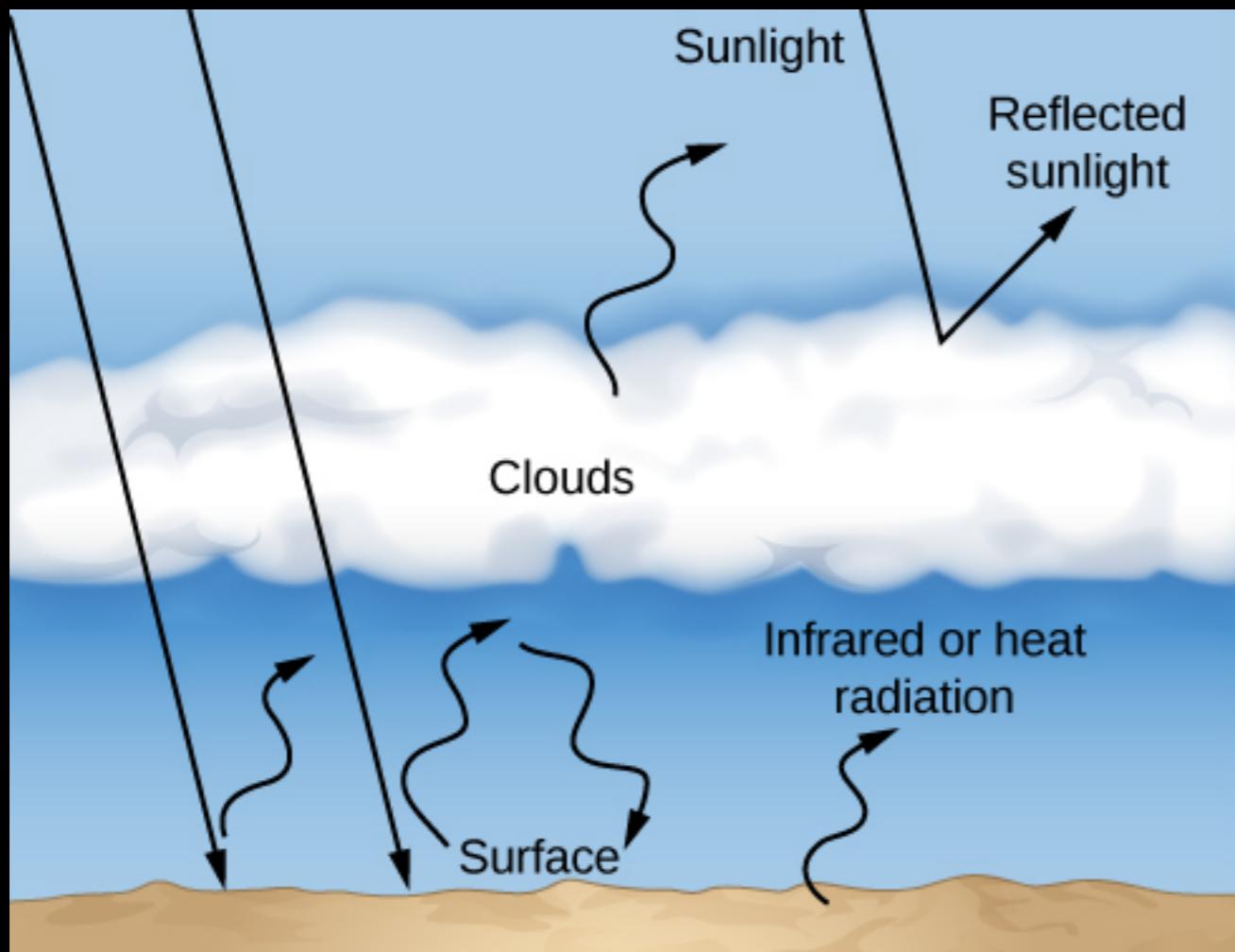
- What is it?
- What is it made of?
- What does it do for a planet/moon?





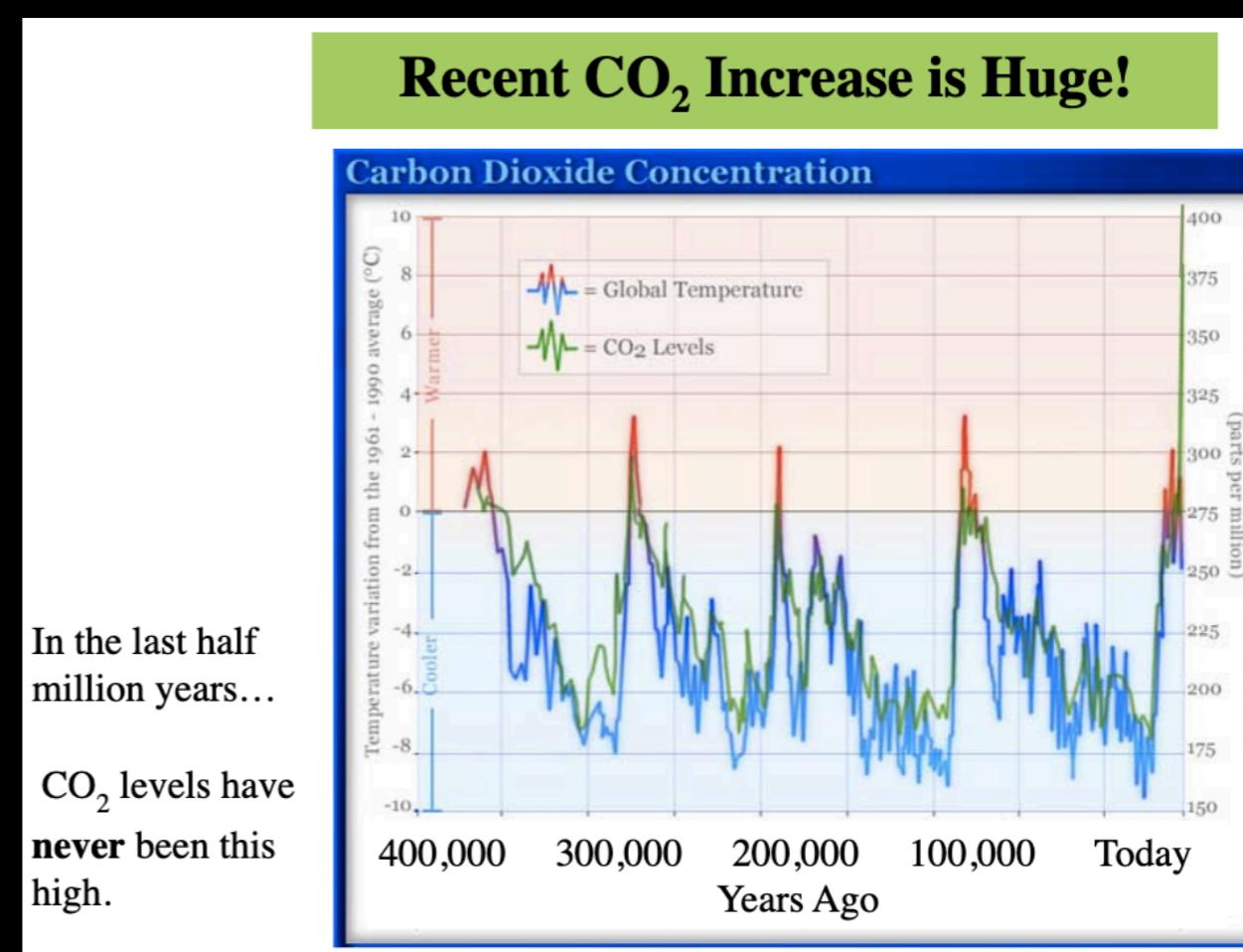
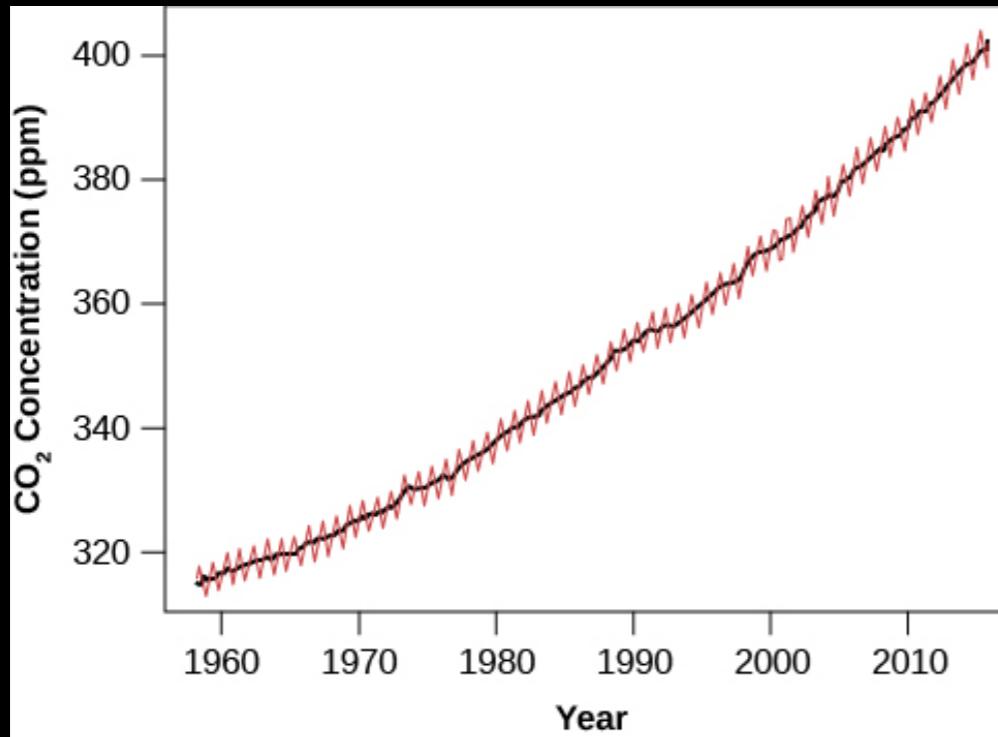
Greenhouse effect

- How does it work?
- What wavelengths of radiation?
- What is the outcome?



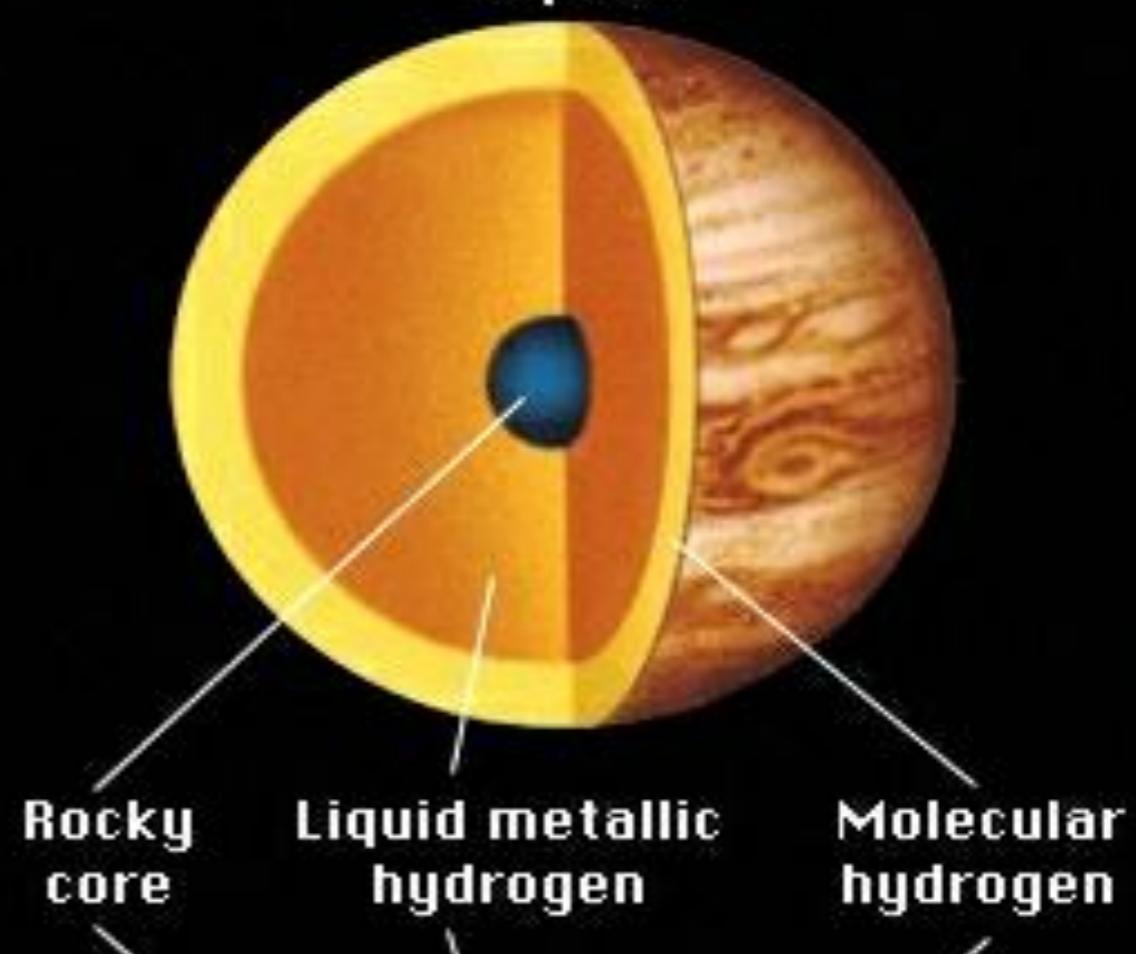
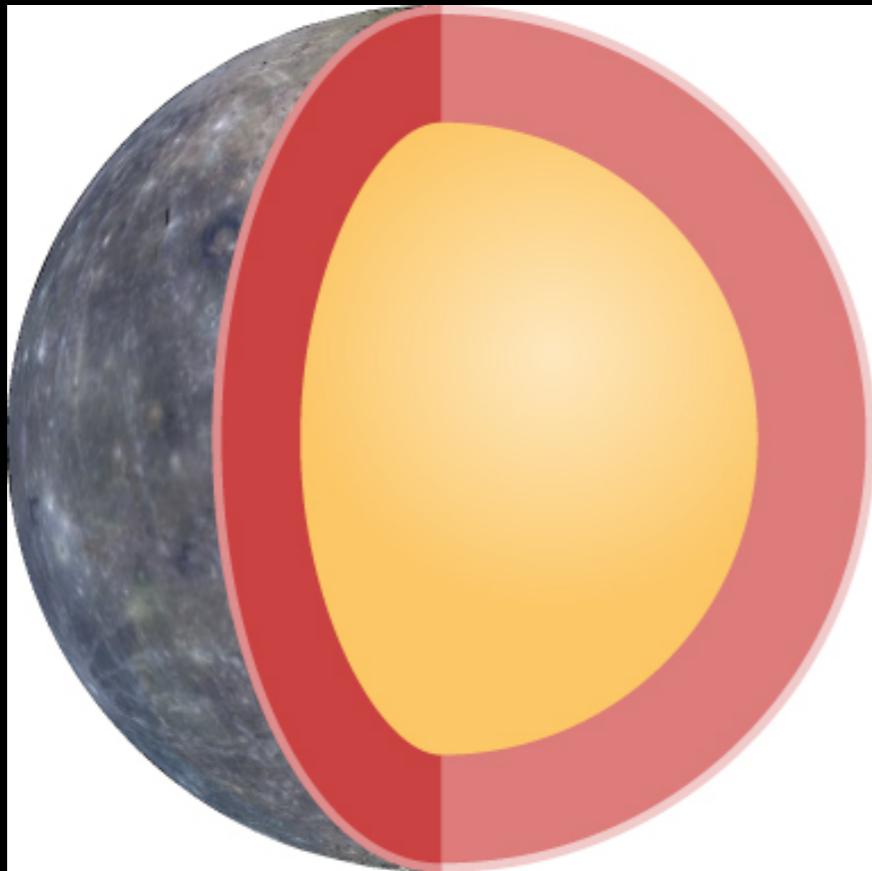
Global warming

- What causes it?
- How is it similar/different from the greenhouse effect?
- What are some effects of it?



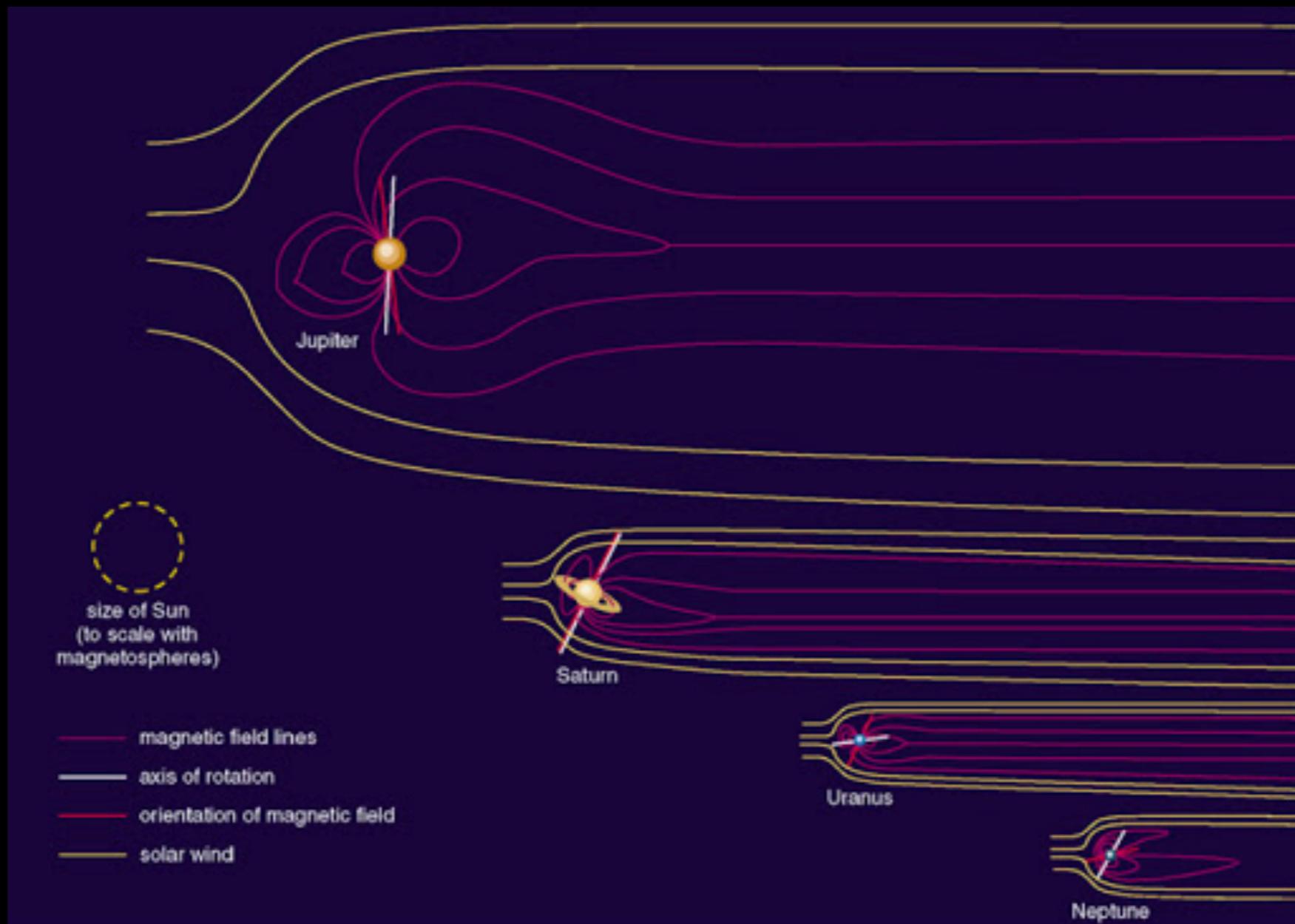
Planet interiors

- What are the typical layers called?
- What kinds of materials do we find... in Jovian planets? In terrestrial planets?
- How does the interior interact with the surface?



Planetary magnetic fields

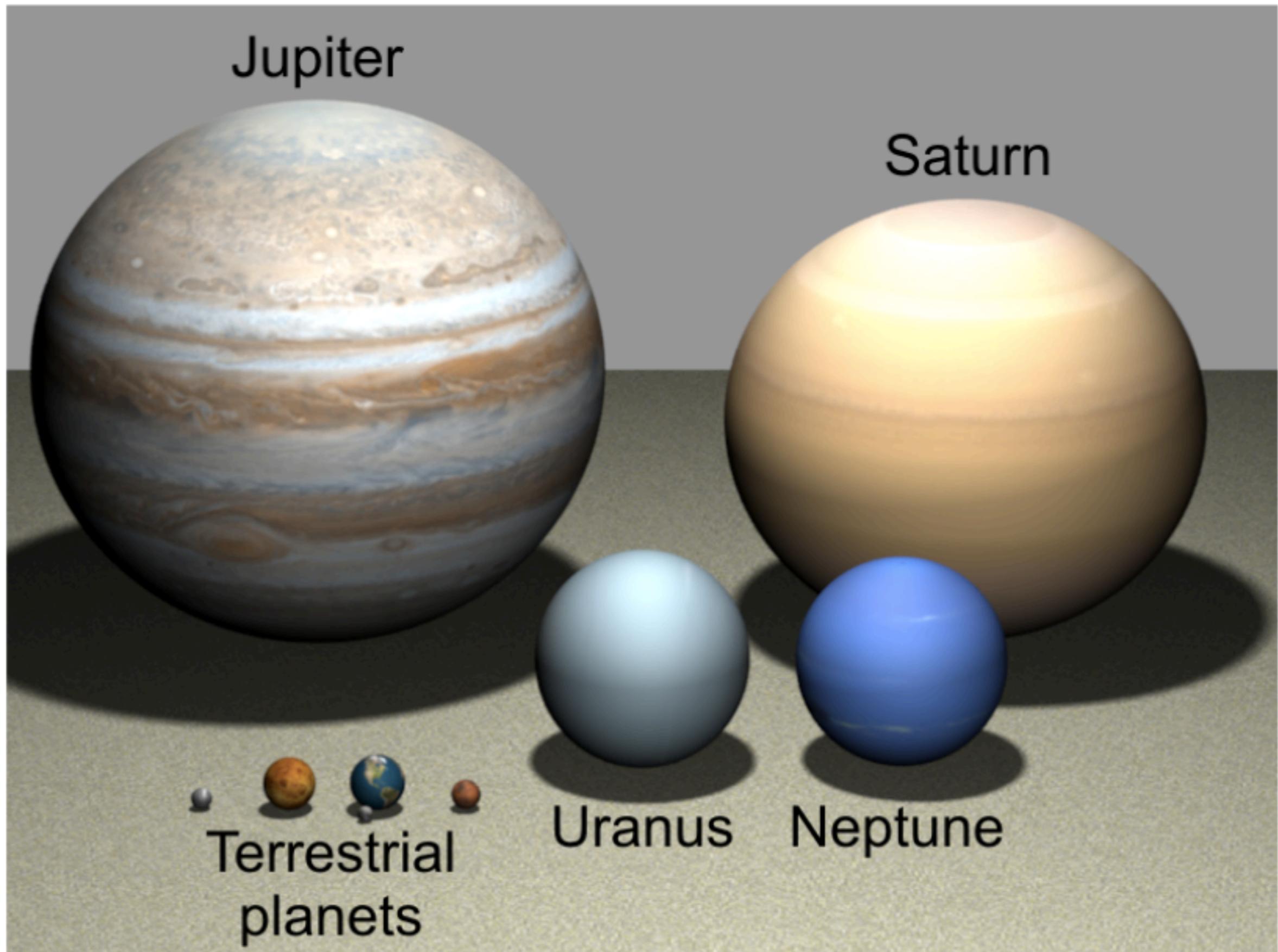
- What conditions do we need to form one?
- General features: how big?
- How can it help a planet?

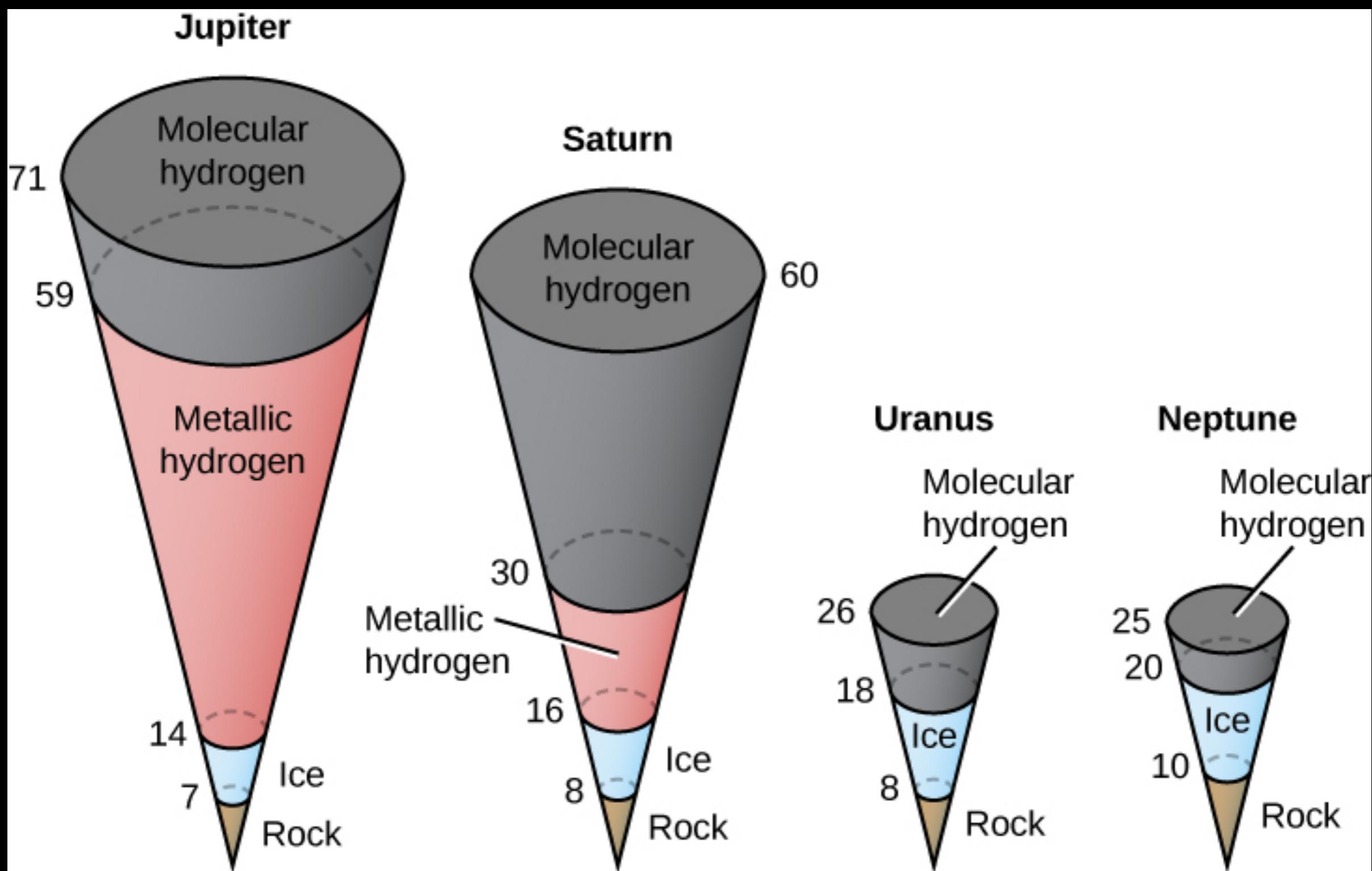


The Eight Planets

- What are they?
- What makes something a planet?
- General sizes, masses, locations
- “Comparative planetology”: how are their atmospheres, surfaces, interiors, and magnetic fields different?
- Which have we visited? Landed on?

Terrestrial vs. Jovian Planets

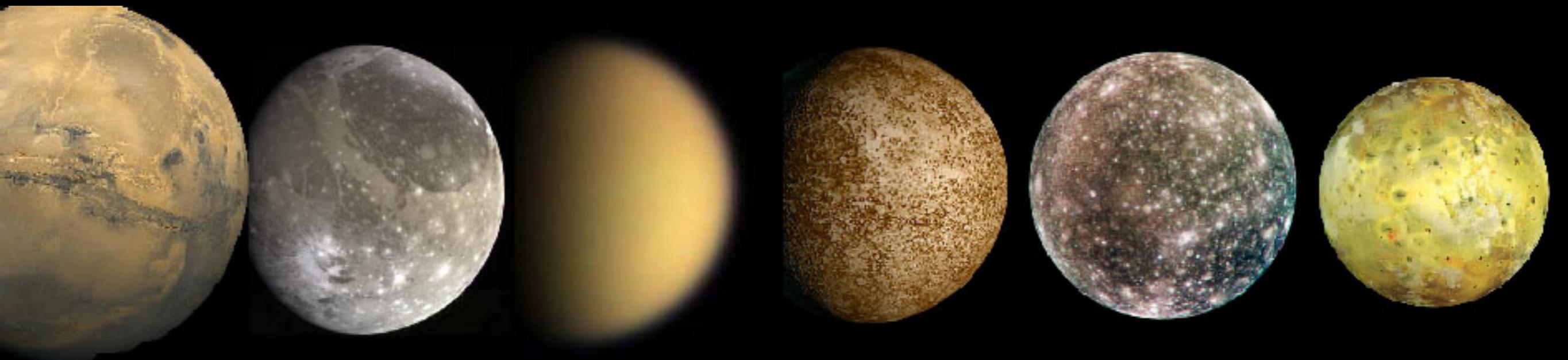




Moons of the solar system

- How many and which planets have them?
- How big are they?
- Do they have atmospheres?
- What are their surfaces like?
- Which have we visited? Landed on?

Moons of the Solar System- Nearly 200 known!



Charon 1186 km Umbriel 1169.4 km Ariel 1158 km Dione 1118 km Tethys 1059 km Earth 12,756.28 km

Diameters of the Terrestrial Bodies
of the Solar System

