

Jupiter 4

King of the Gods and Planets

318 x Earth's Mass

11 x Earth's Radius

1/1000 Sun's Mass



Jupiter's Cloud layers

_____ (at the top)

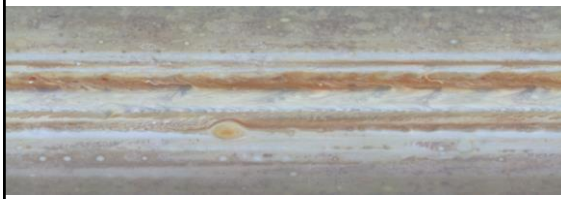
_____ (lowest layer)



Clouds, clouds, clouds

Rotation rate ~ _____

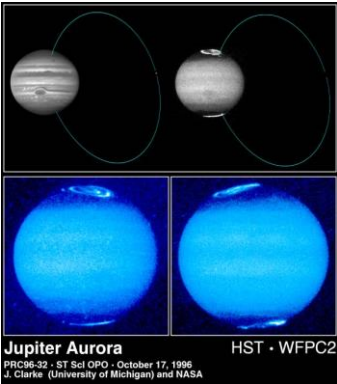
_____ ⇒ turbulence, and storms



The Great Red Spot



_____ old Storm
_____ x size of the Earth

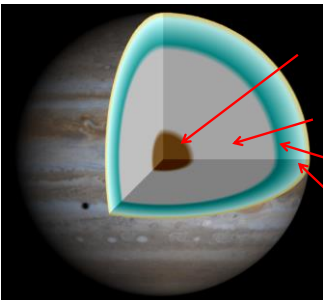
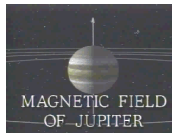


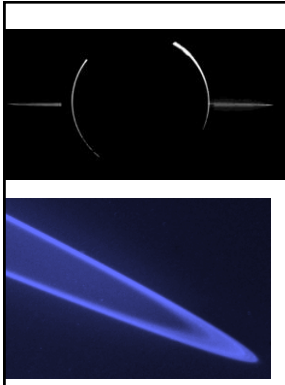
Aurora \Rightarrow magnetic field

What's Jupiter's magnetic field like?

How is it produced?


Jupiter Aurora HST - WFPC2
PRC96-32 - ST ScI OPO - October 17, 1996
J. Clarke (University of Michigan) and NASA





Jupiter's Ring System

The top image shows a diagram of Jupiter's ring system with two white arcs on a black background, representing the rings and their orientation. The bottom image shows a blue, glowing ring system against a dark background.

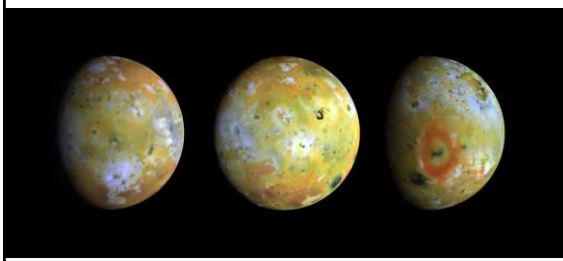


Satellites of Jupiter

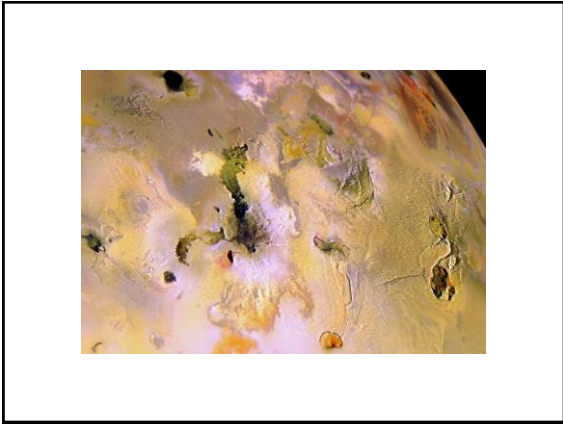
60+ satellites
4 largest are the Galilean Satellites

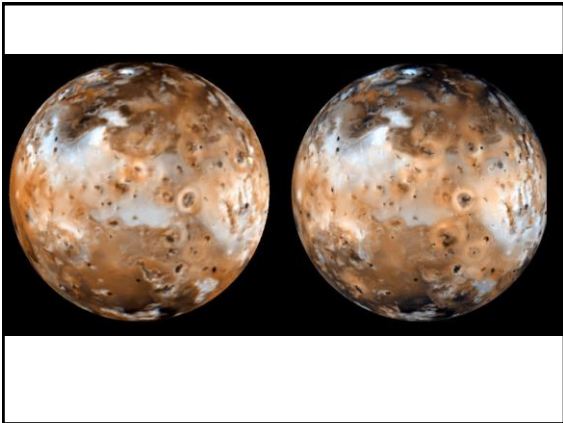
The image shows a portion of Jupiter's surface with its characteristic orange and white bands, alongside four of its moons of varying sizes and colors.

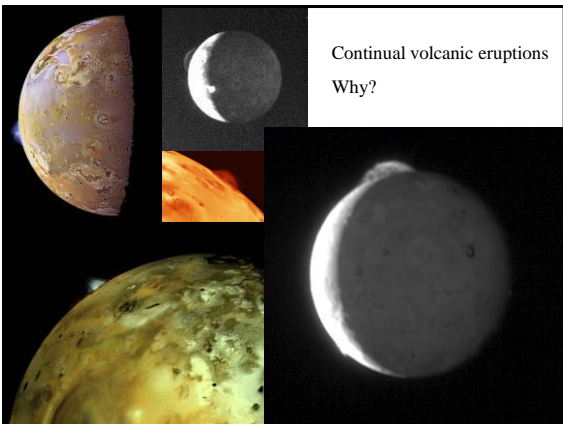
Io - The Volcanic World



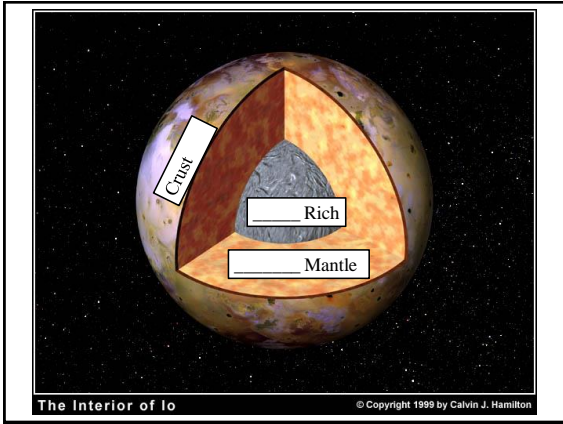
Three views of the moon Io, showing its volcanic activity and colorful surface.

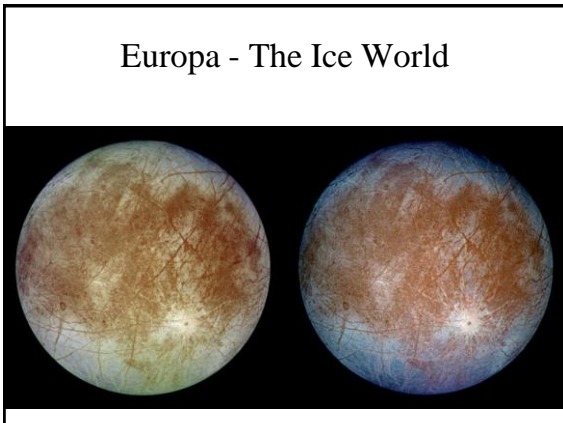


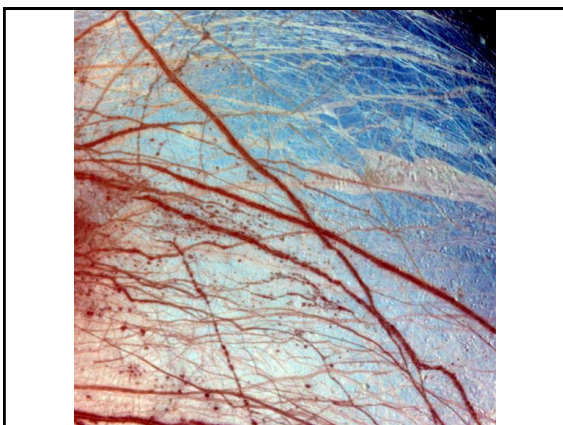


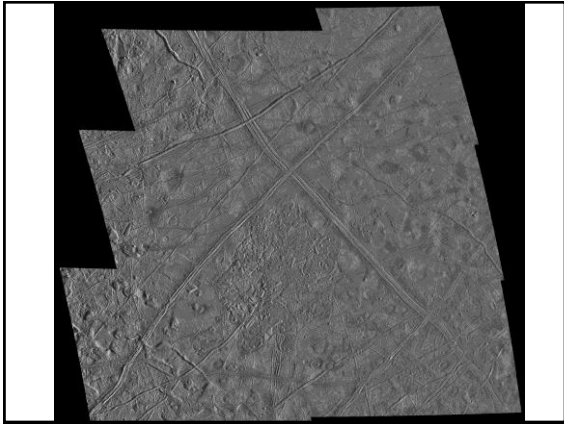


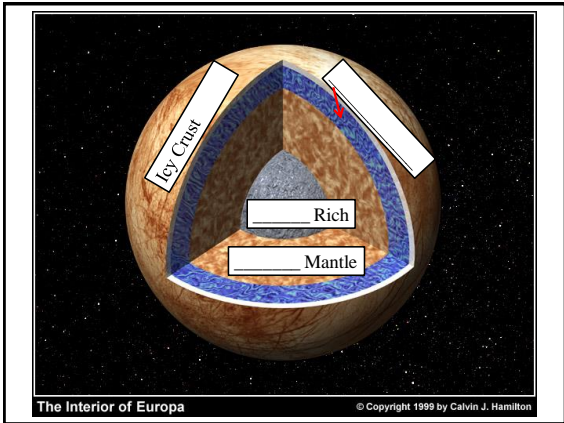
Continual volcanic eruptions
Why?





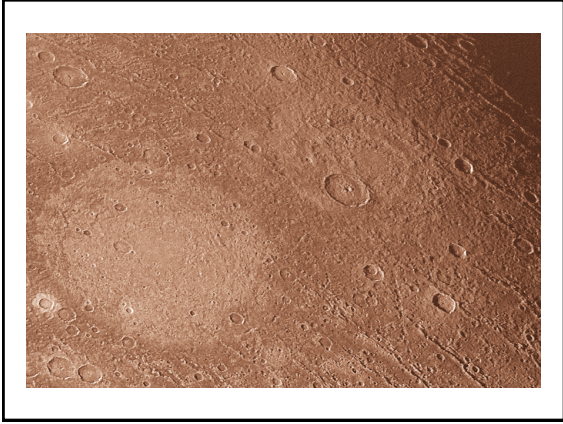


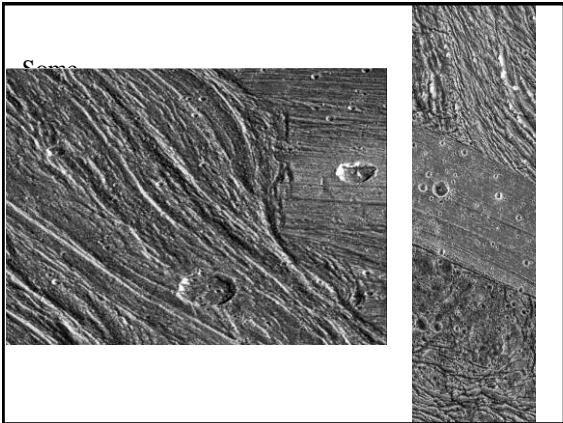


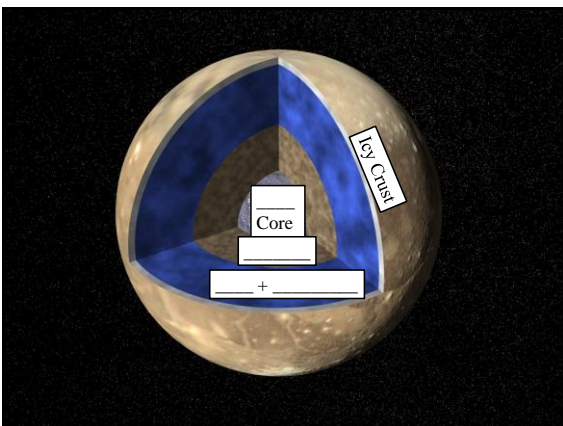


Ganymede - The Largest Moon









Callisto - The Cratered Moon

