



Europa

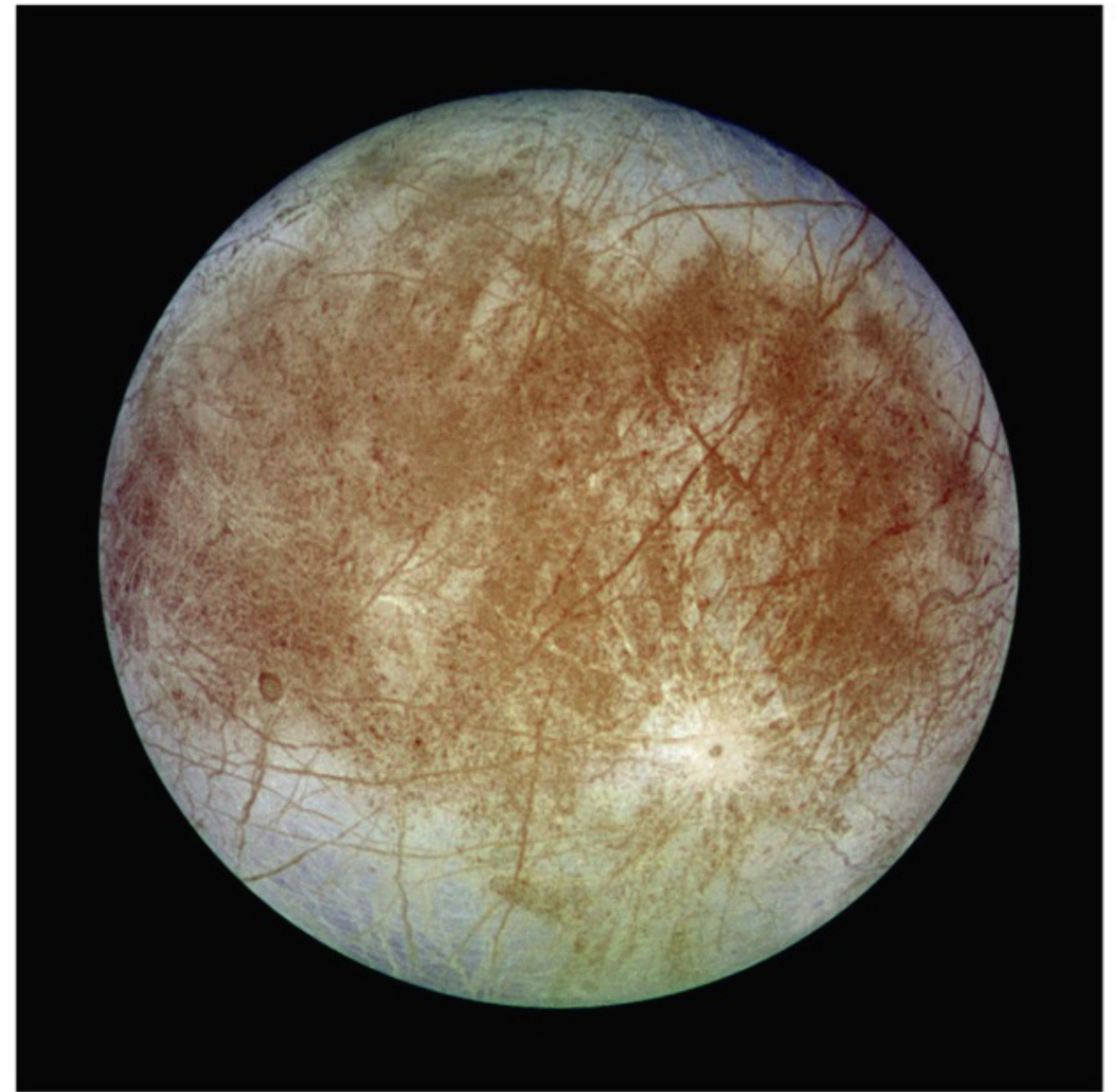
Icy Moon of Jupiter



Objectives

By the end of this lesson you will be able to:

- Understand the composition of Europa
- Explain the formation of the cracks on Europa's surface
- Describe the nature of Europa's subsurface oceans
- Explore extremophiles and life in space

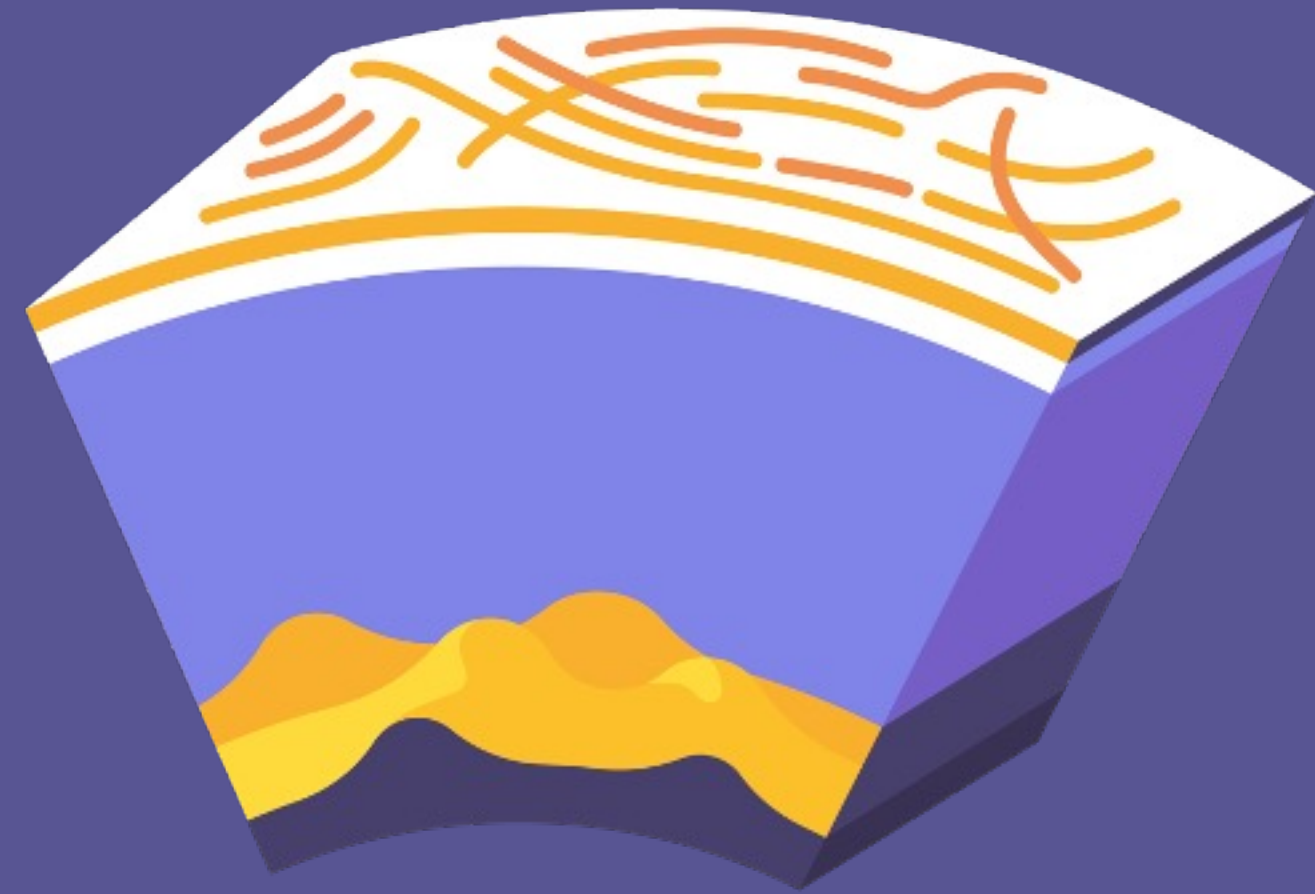


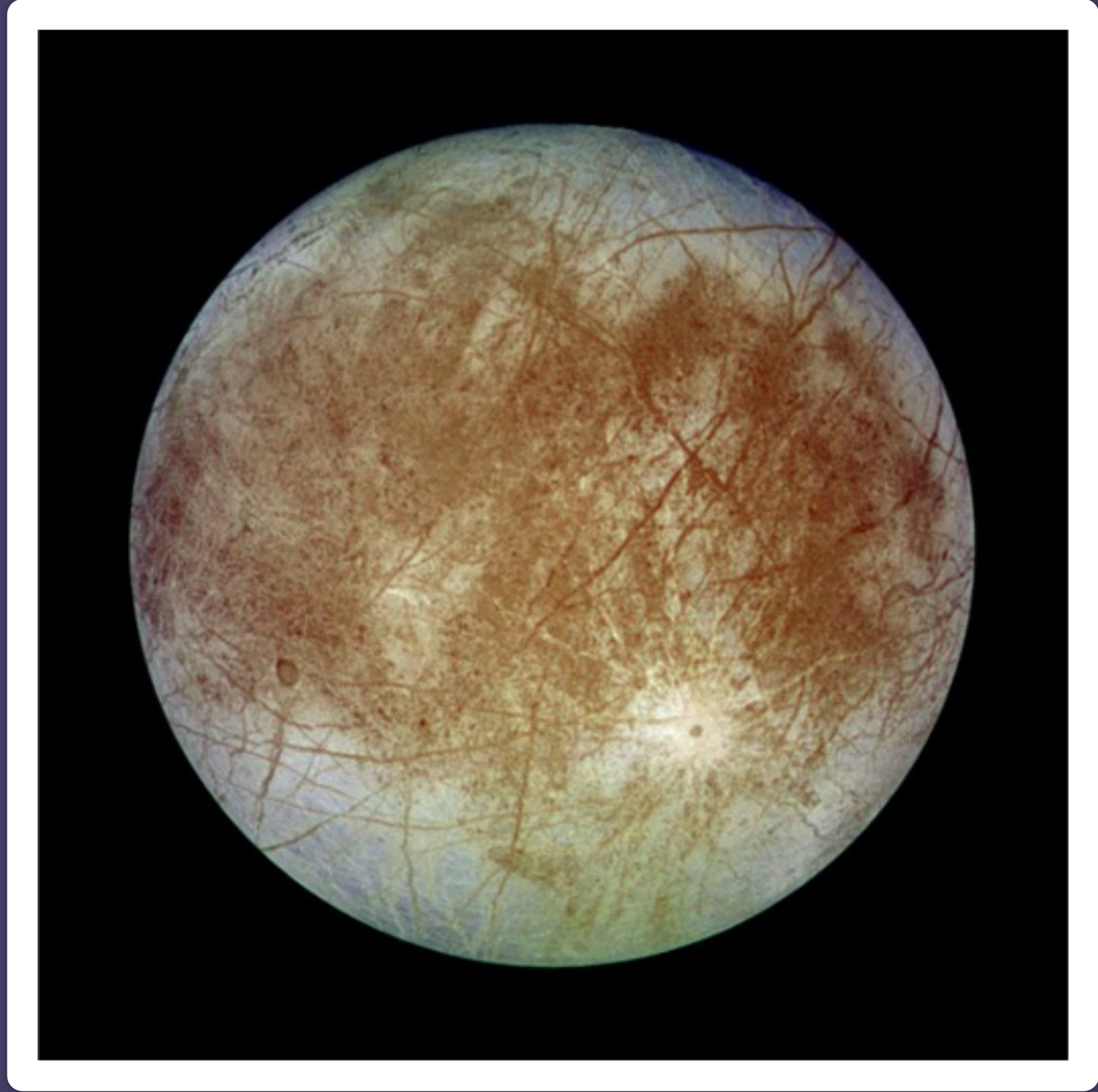


Geology of Europa



Europa's surface

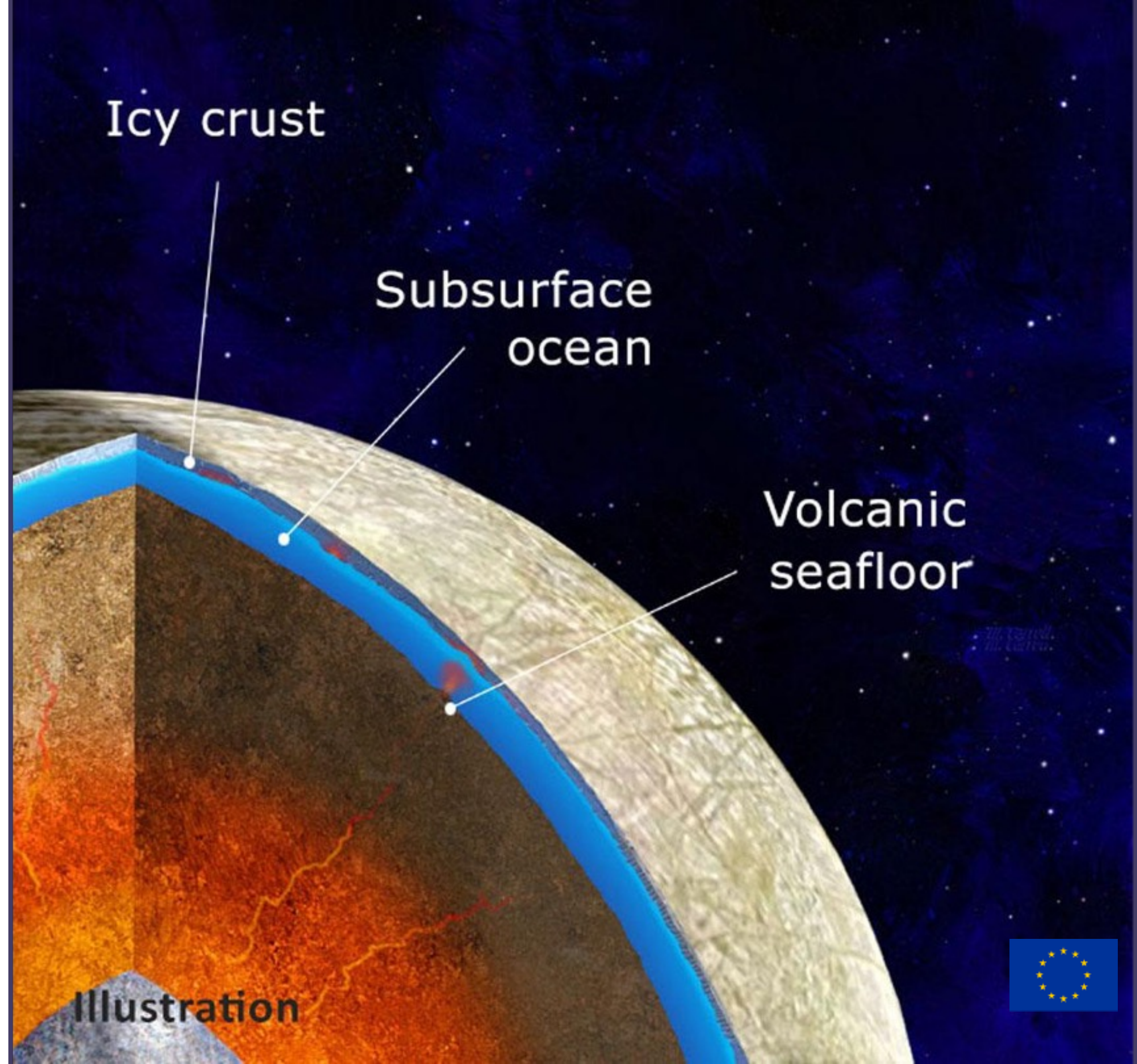




Europa's Chaos Terrain



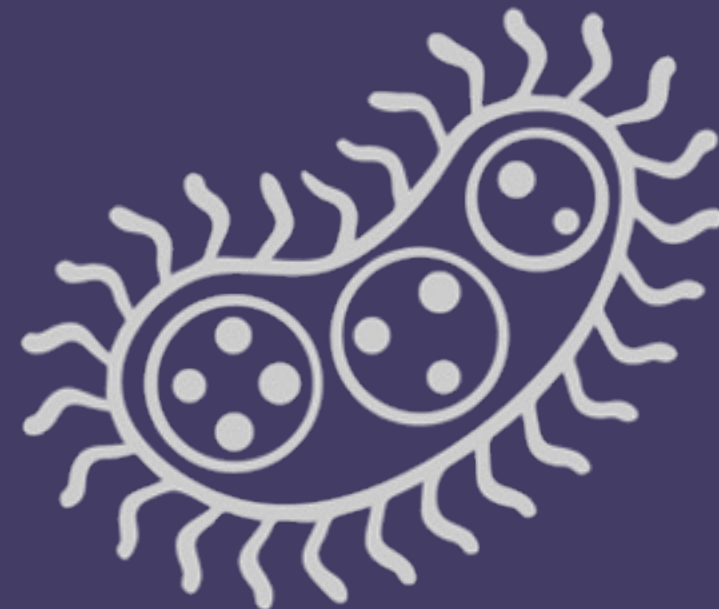
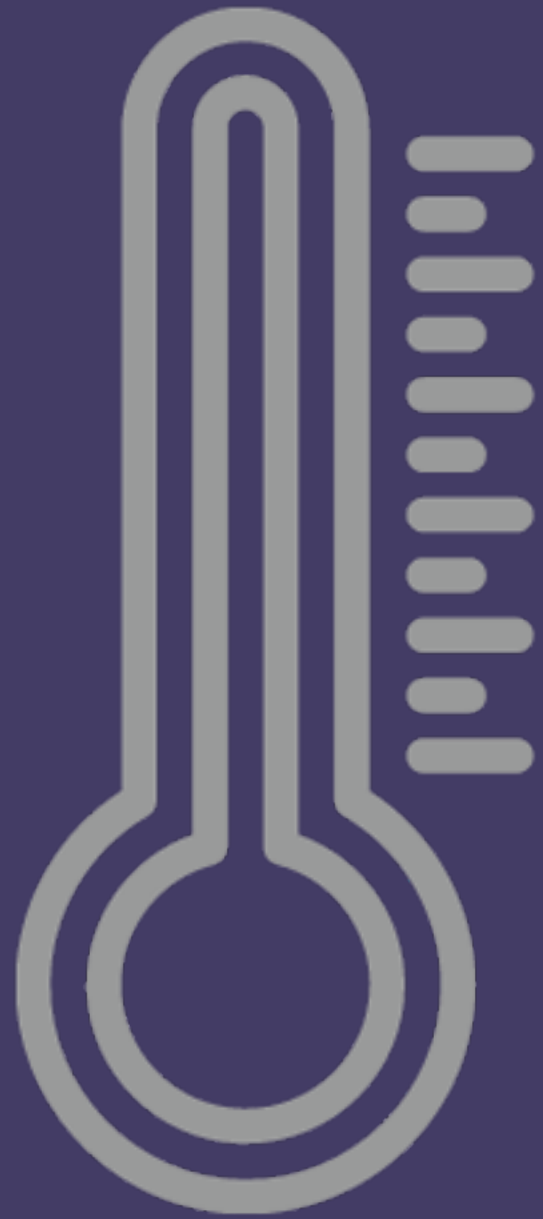
Europa's Sub-surface ocean

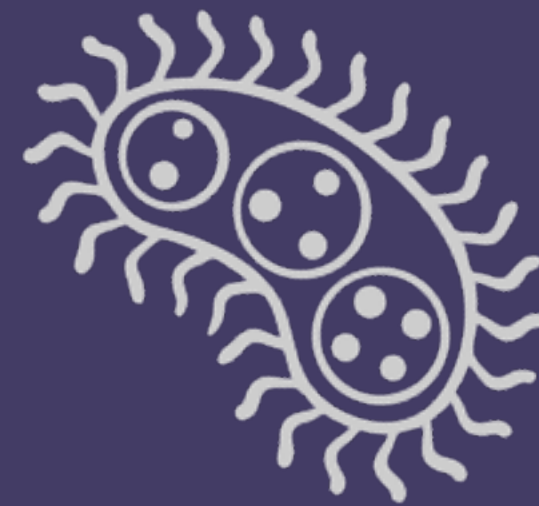


How salt lowers the freezing point of water

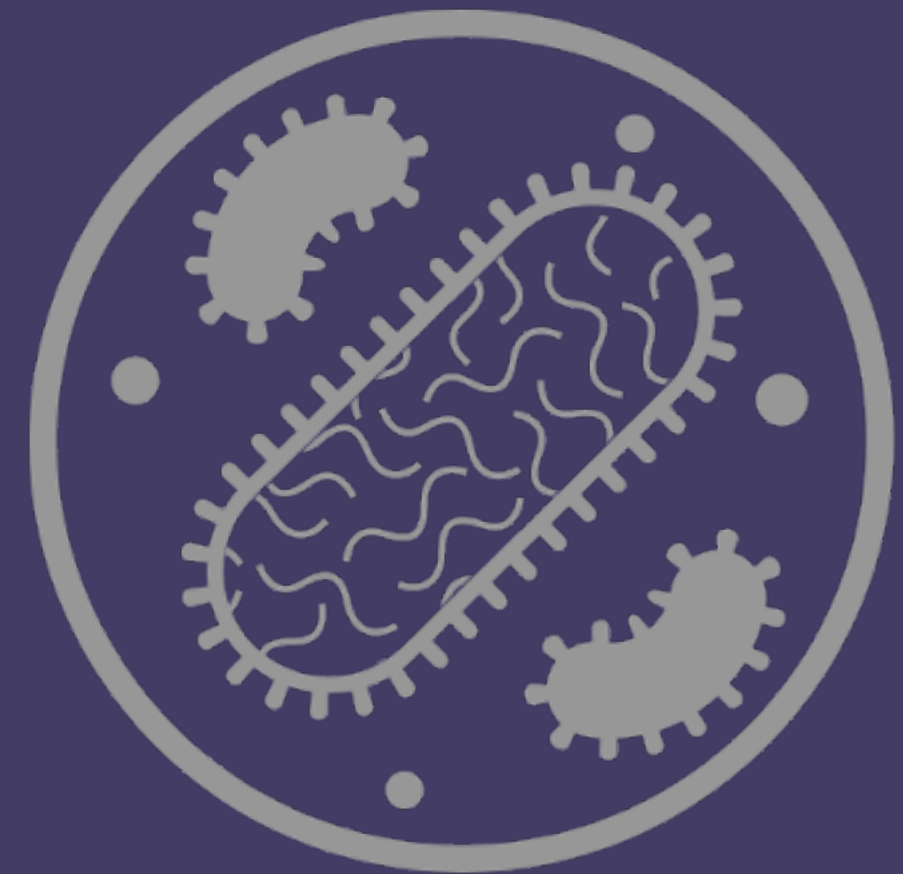
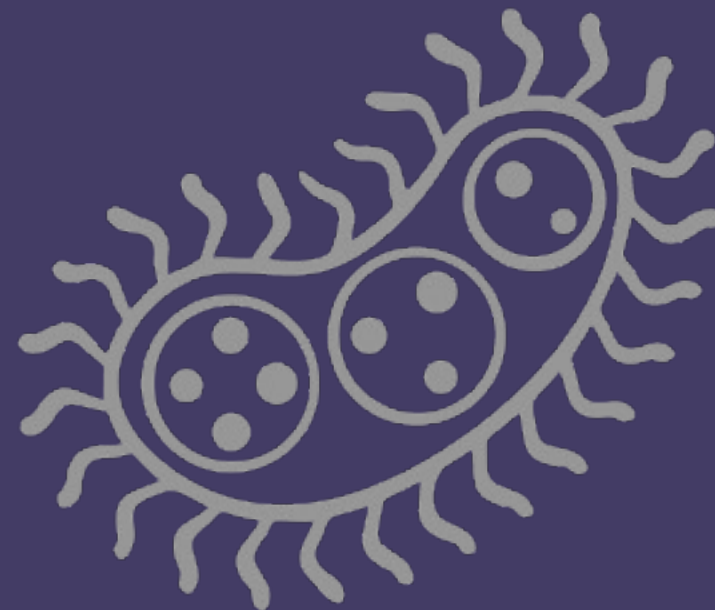
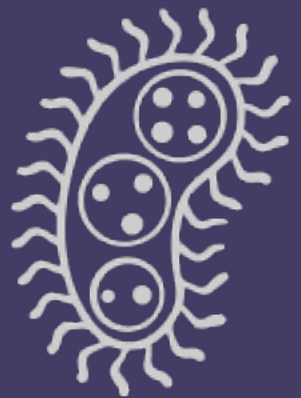


Life in extreme cold Temperatures: Extremophiles



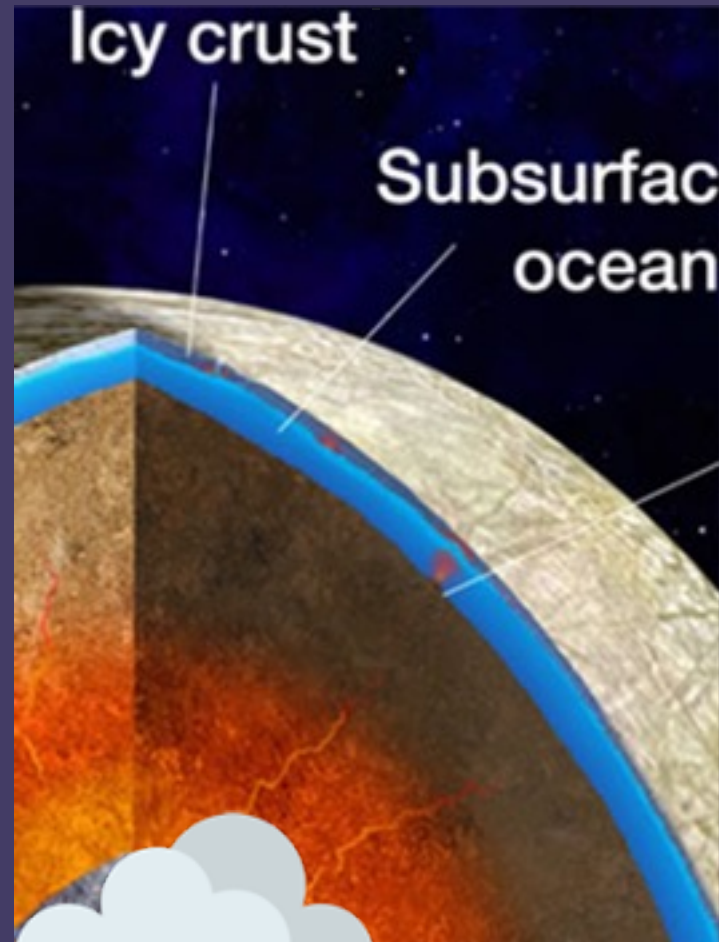


Do you think there could be life on Europa?



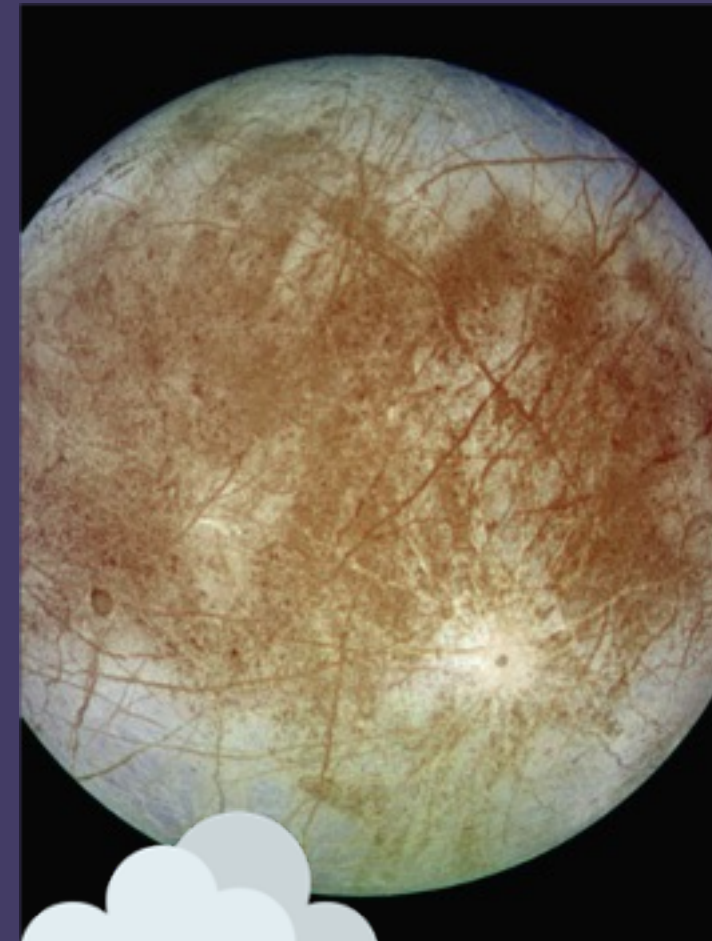
Recap

Now we can...



1

Describe the geology and composition of Europa



2

Understand interactions between the subsurface ocean and crust



3

Understand extremophiles and the potential for life on Europa