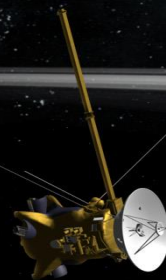


The Cassini-Huygens mission: Tale of a 13-year journey in the Saturnian system

Benjamin Palmaerts

STAR Institute, Université de Liège

b.palmaerts@ulg.ac.be



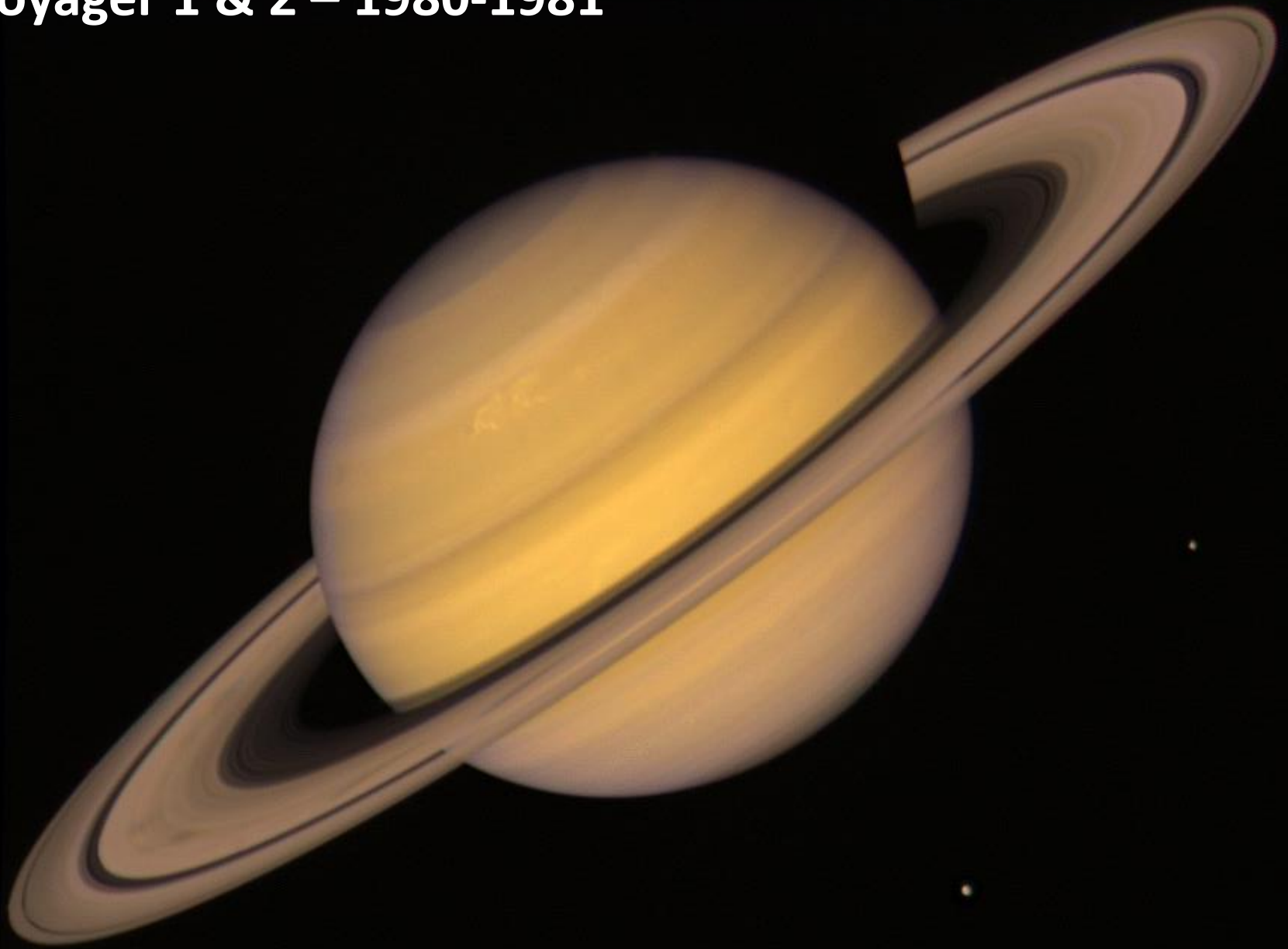
Meeting of the FNRS Contact Group *Astronomie & Astrophysique*
Planetarium, Brussels – 19 September 2017



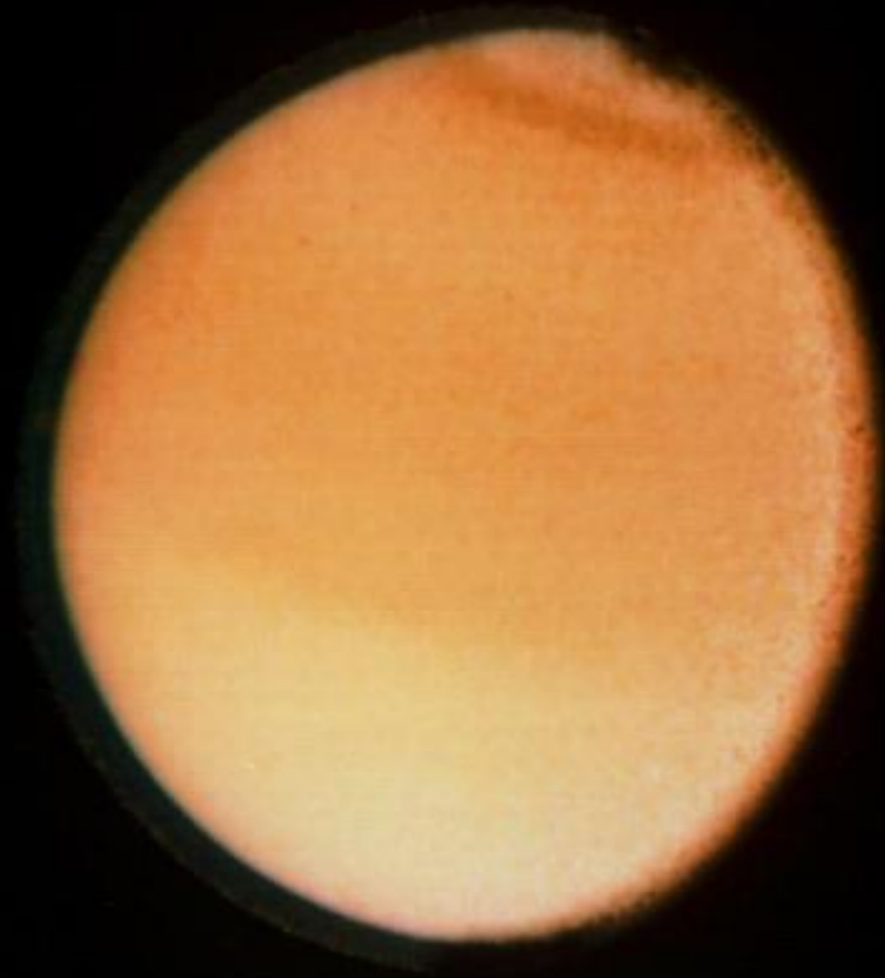


Pioneer 11 - 1979

Voyager 1 & 2 – 1980-1981



Voyager 1 & 2 – 1980-1981



Giovanni Domenico Cassini



(1625 – 1712)

Christiaan Huygens

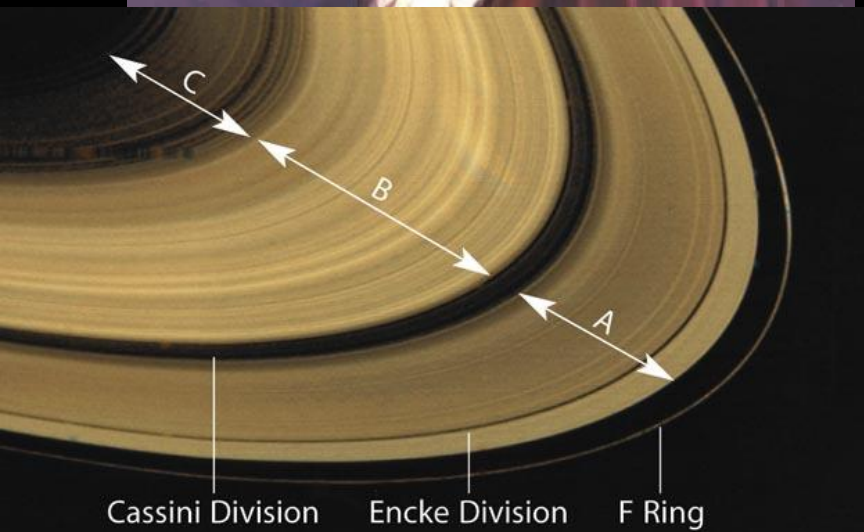


(1629 – 1695)

Giovanni Domenico Cassini

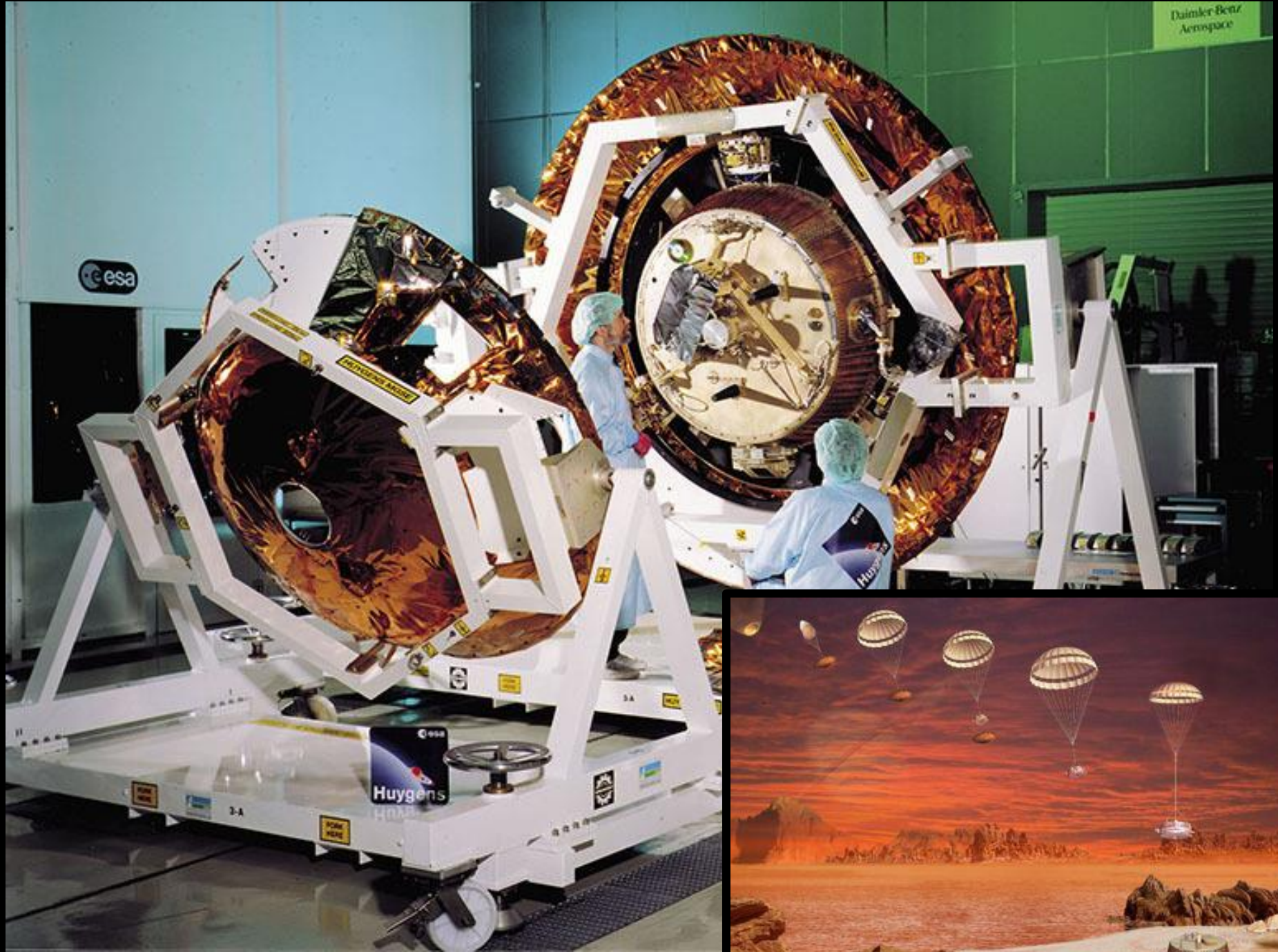


Christiaan Huygens

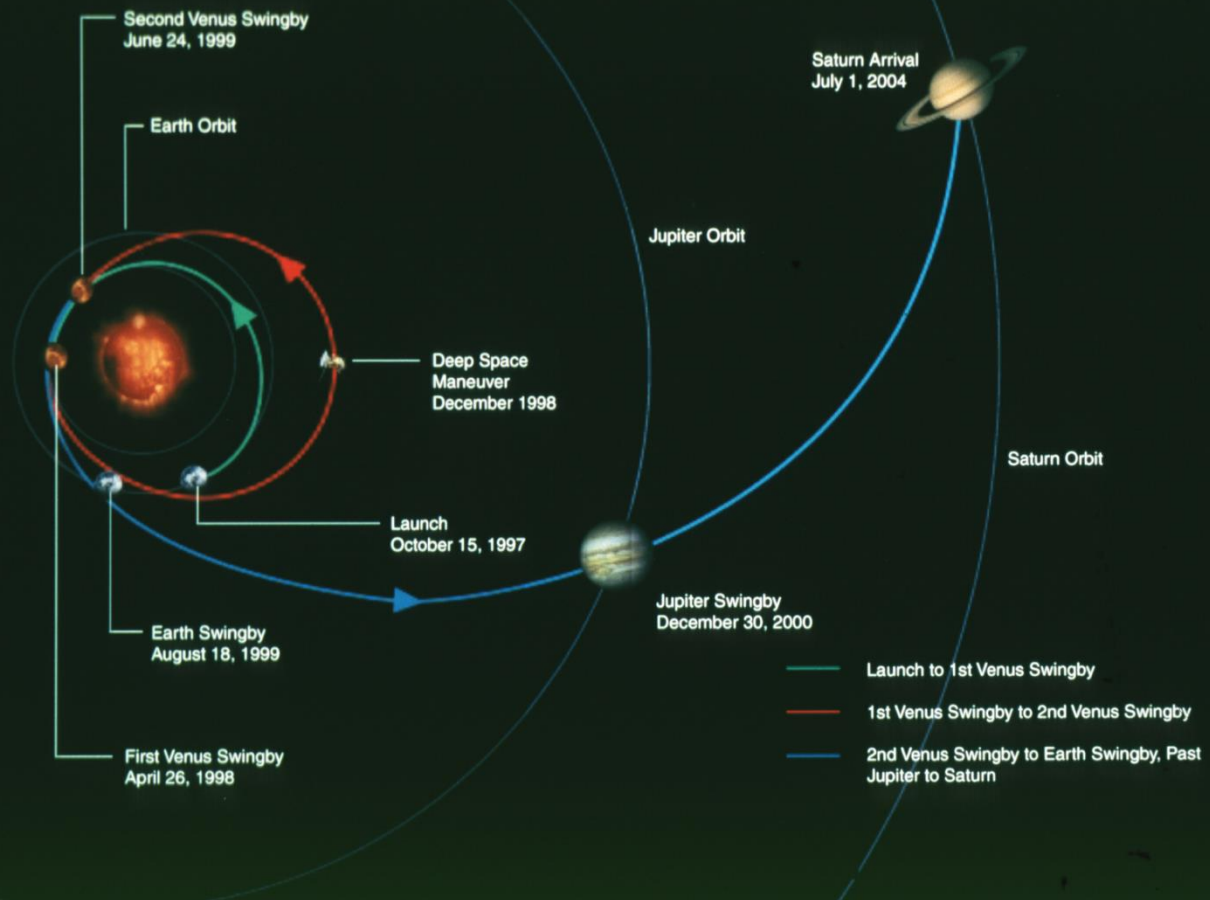


(1629 – 1695)





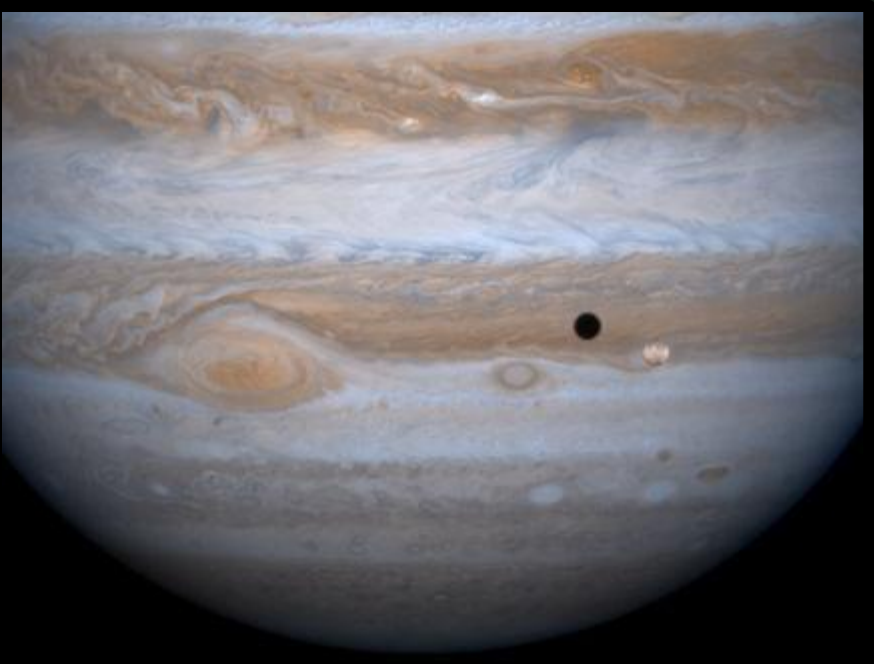
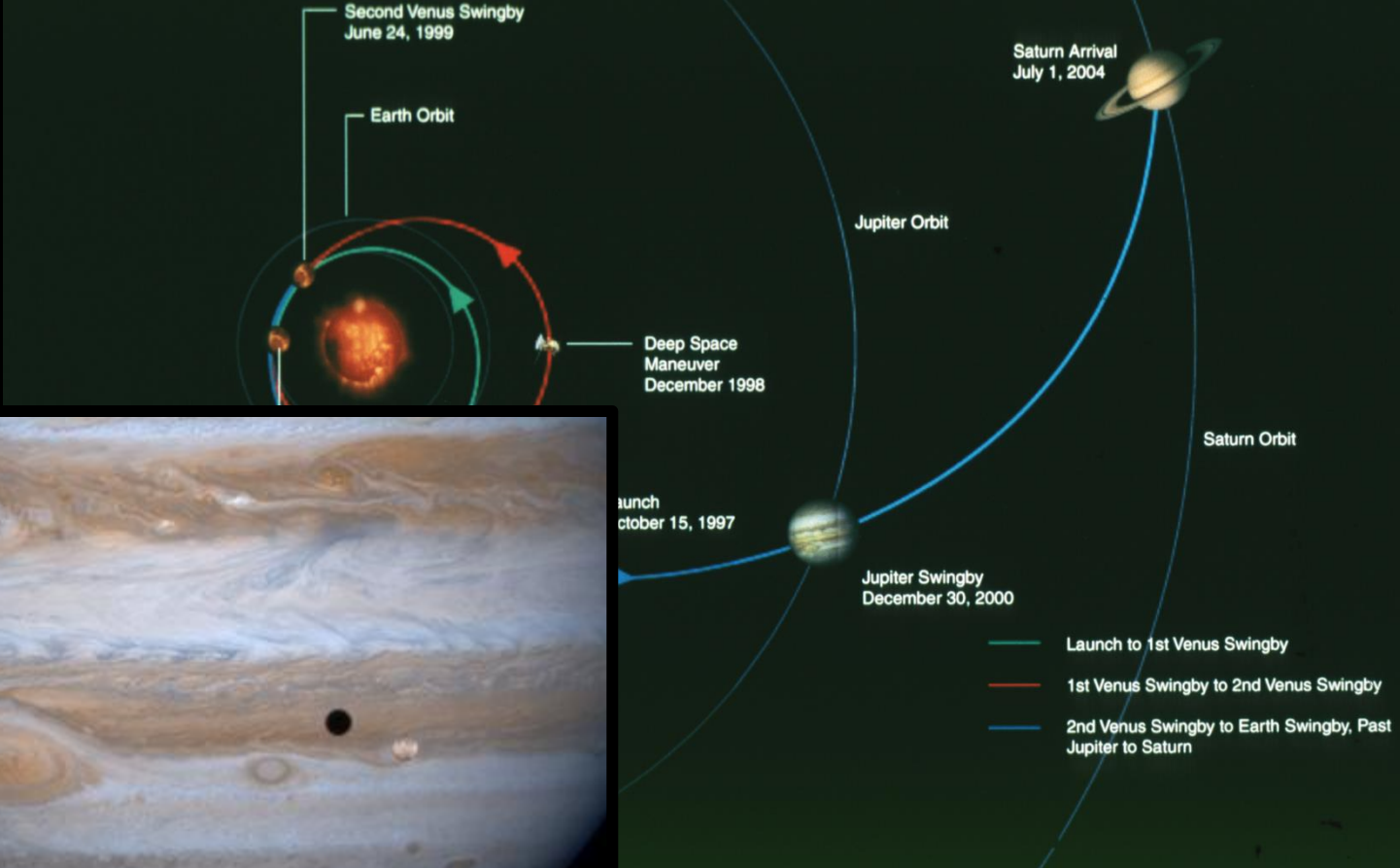
Cassini Interplanetary Trajectory



1997

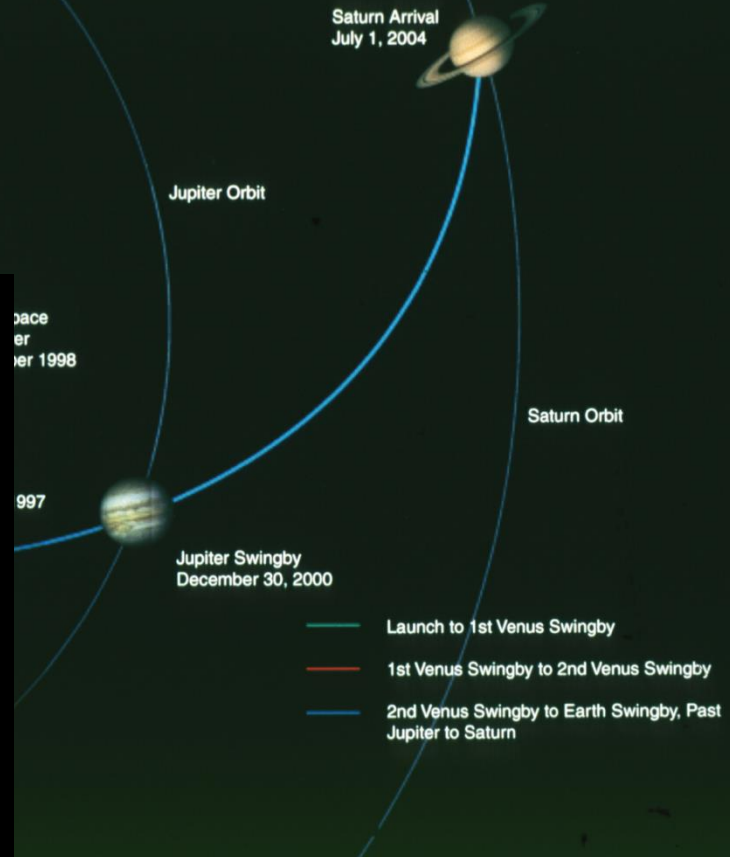
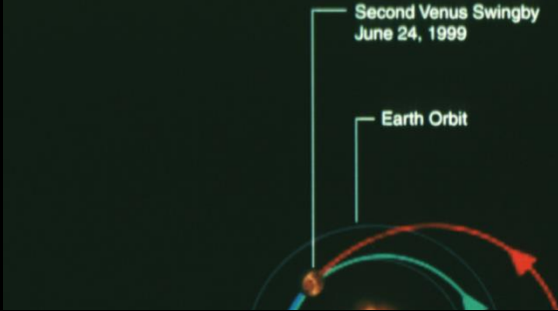


Cassini Interplanetary Trajectory

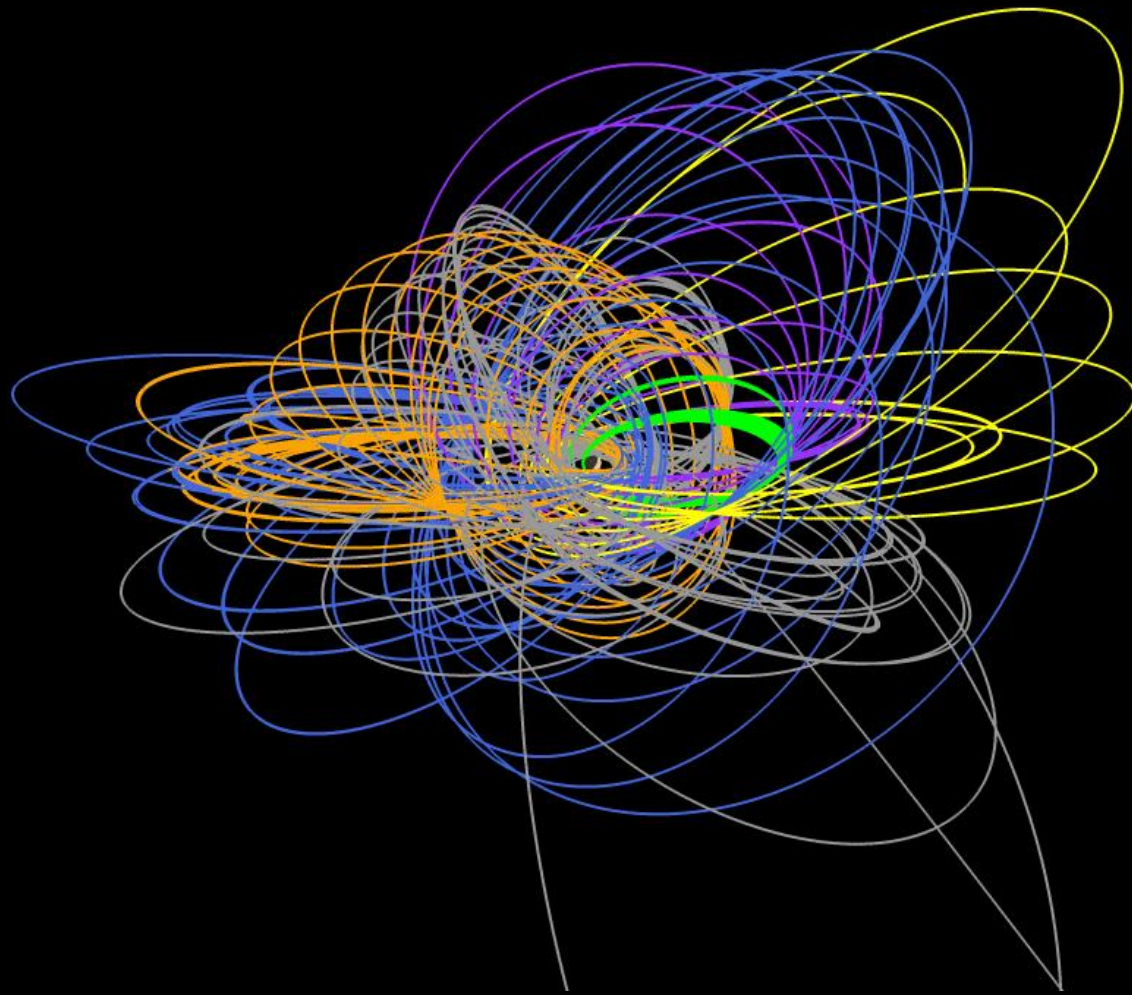


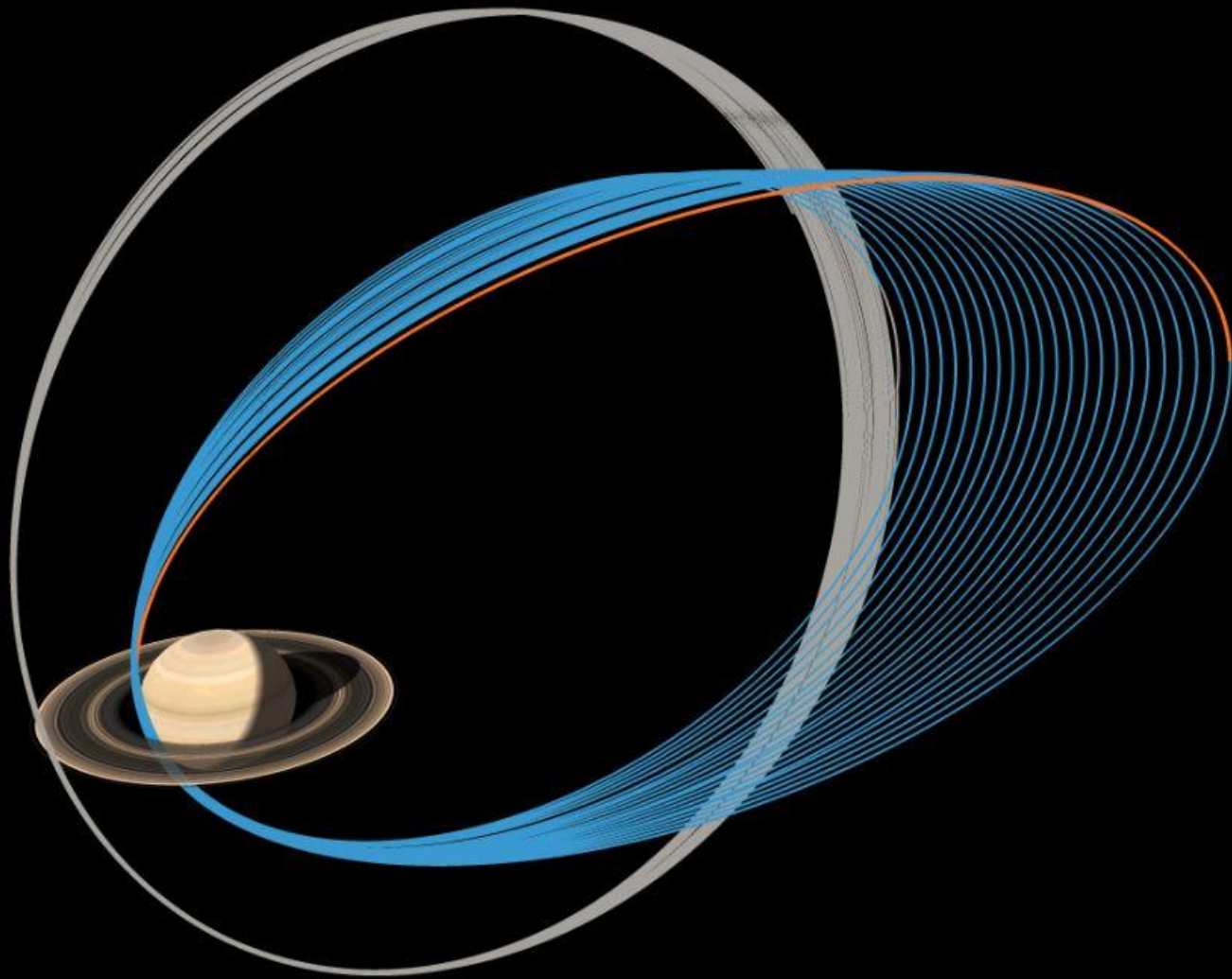
2000

Cassini Interplanetary Trajectory



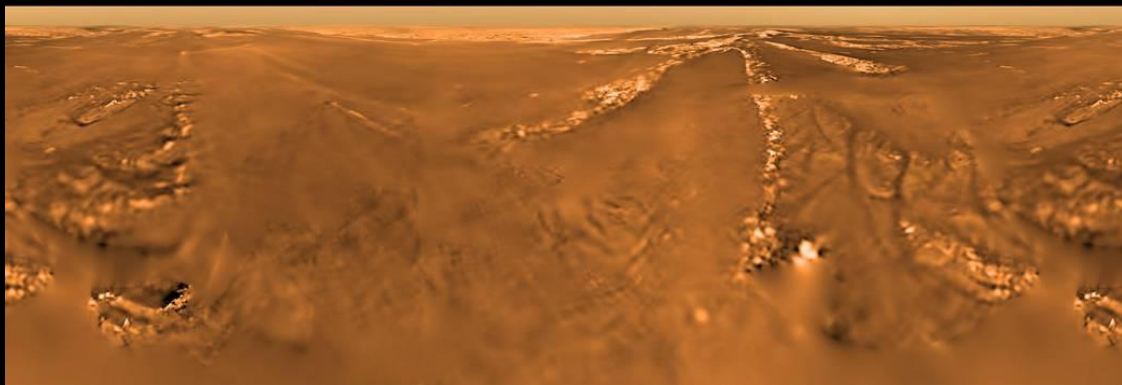
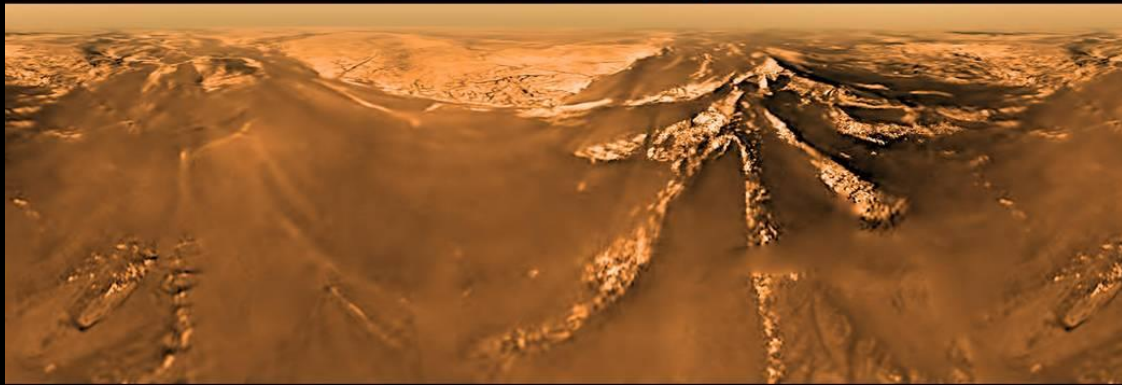
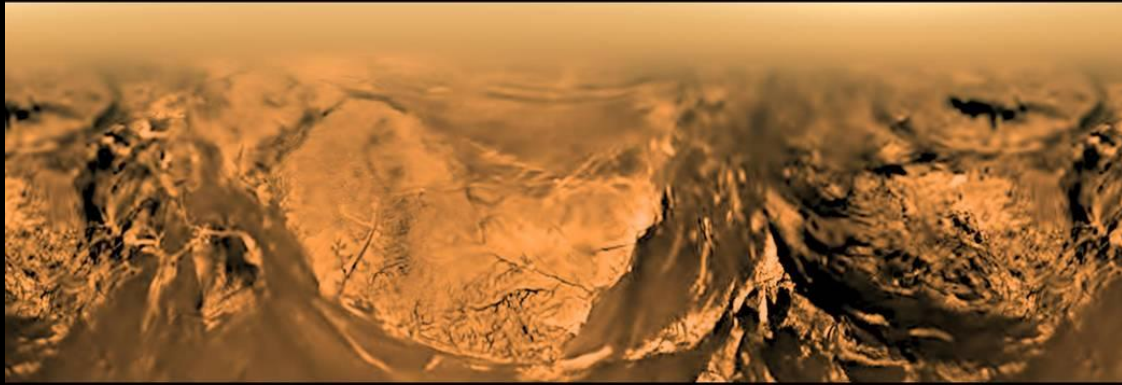
2004

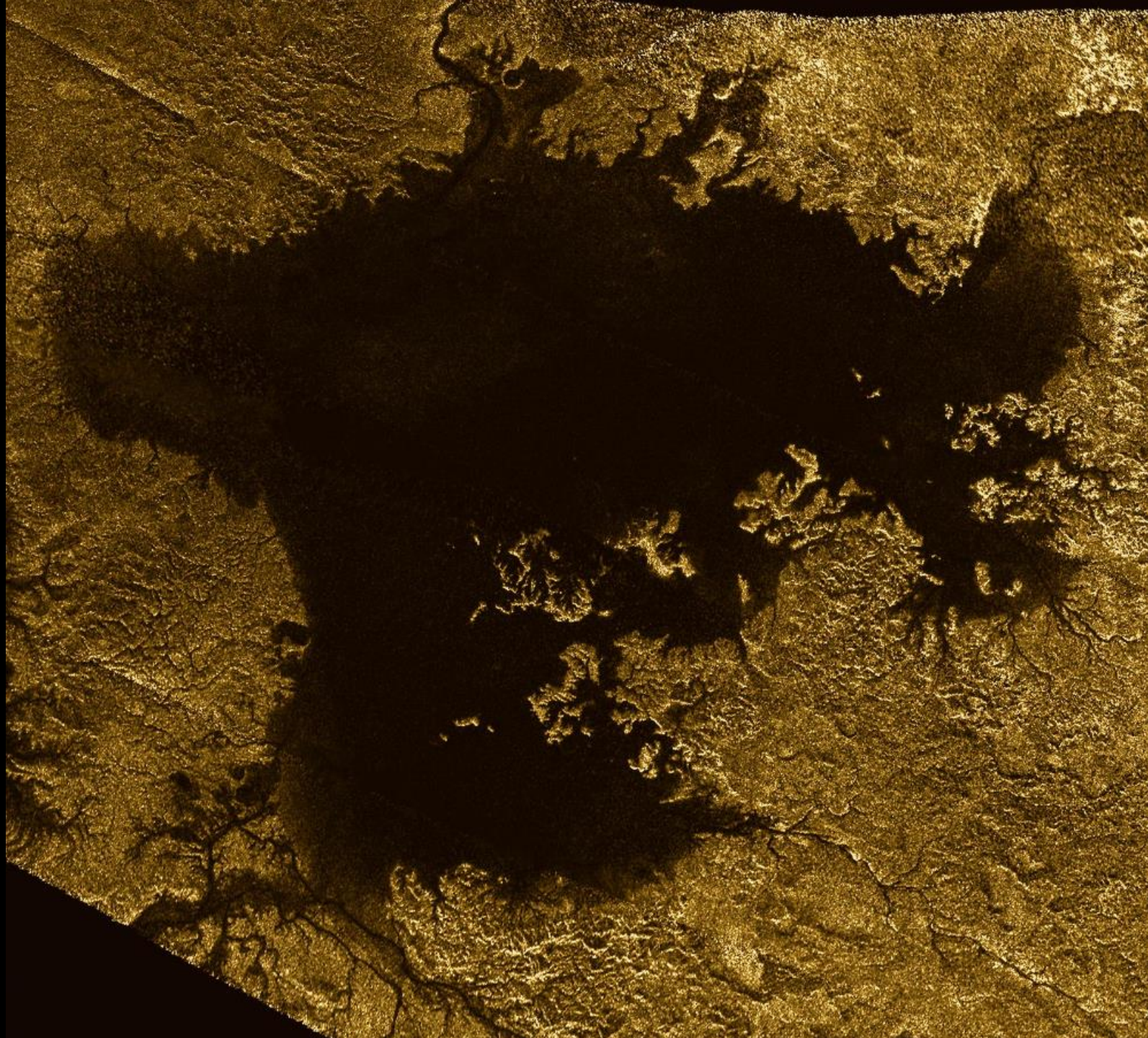




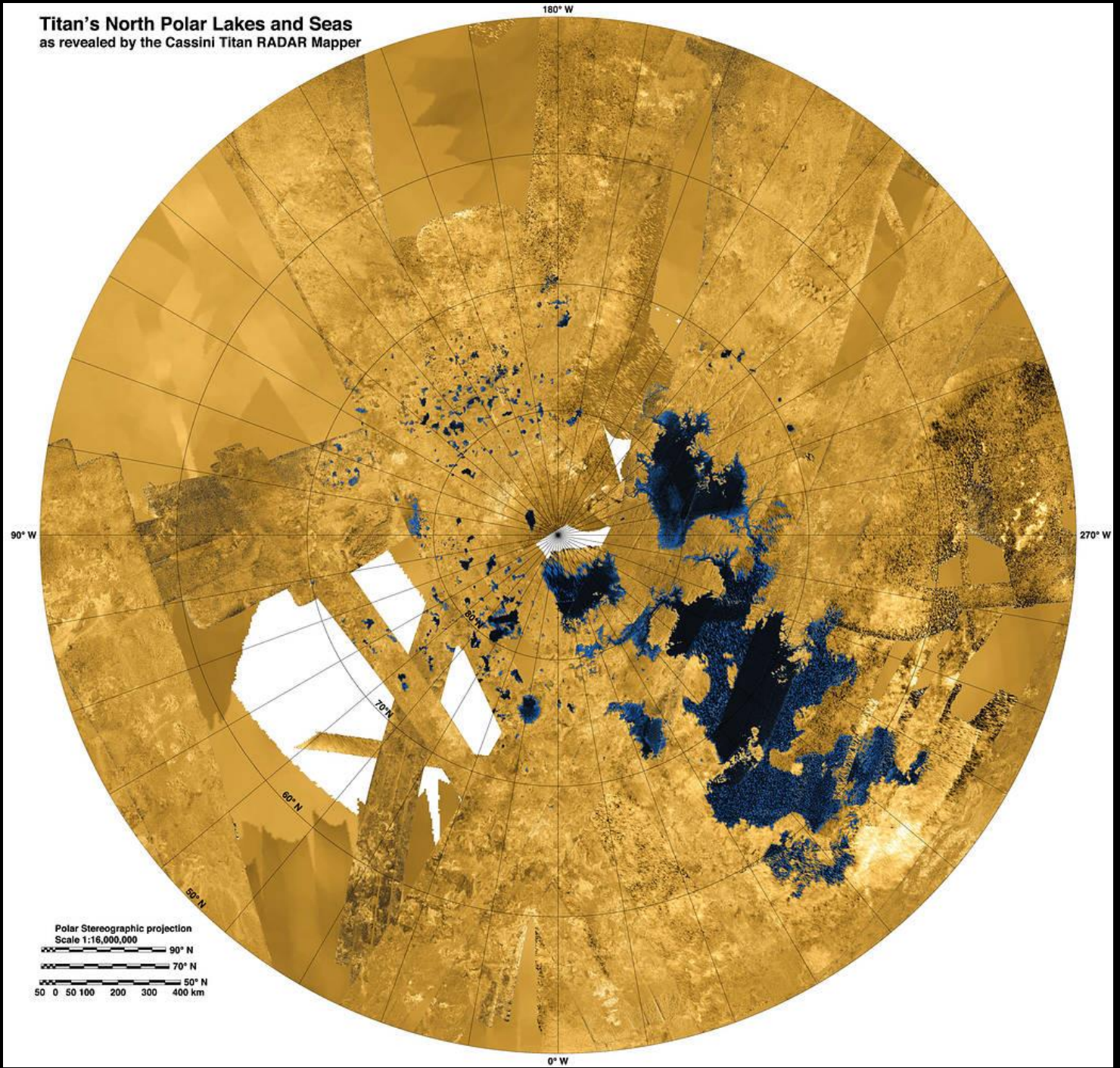
Titan

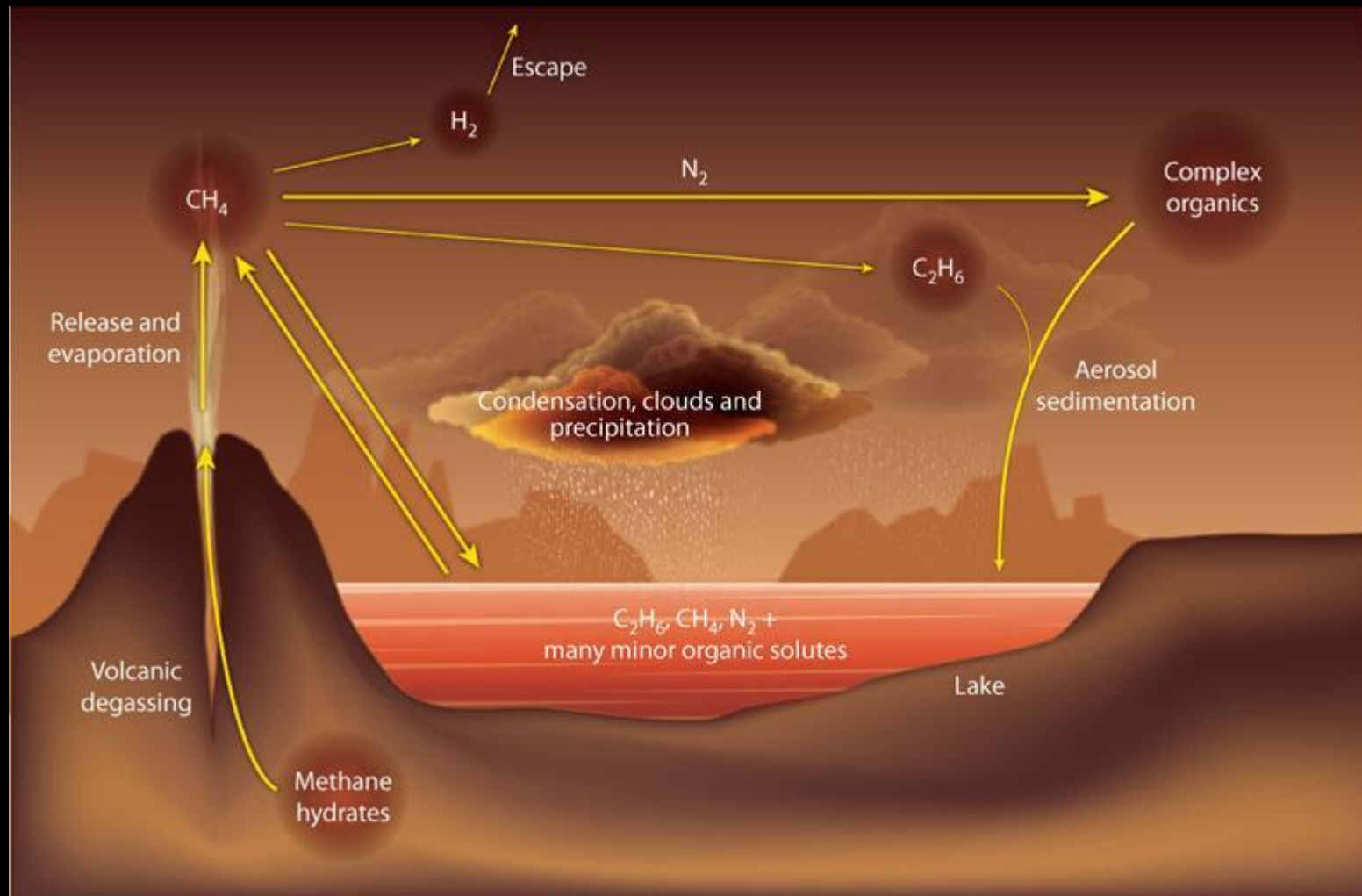




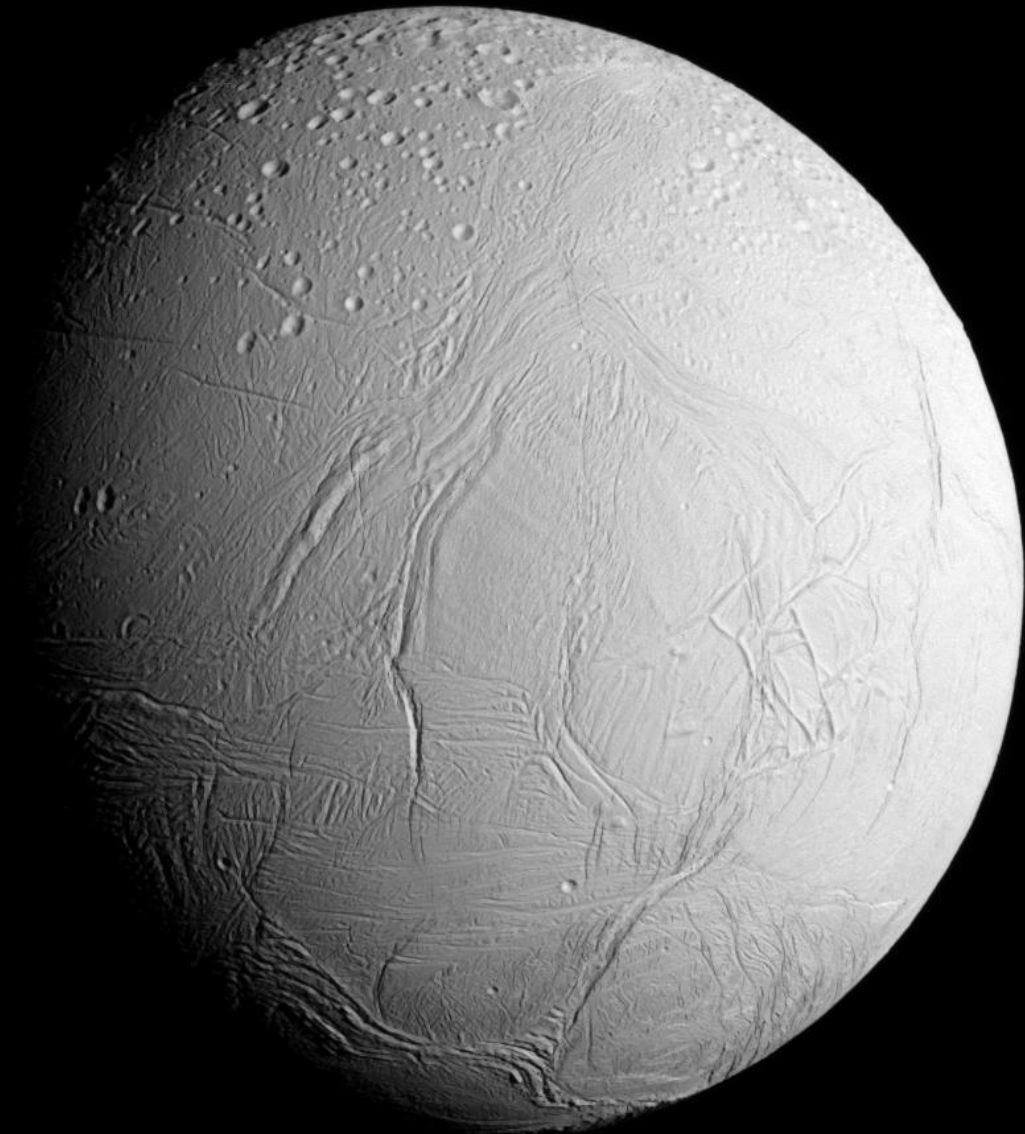


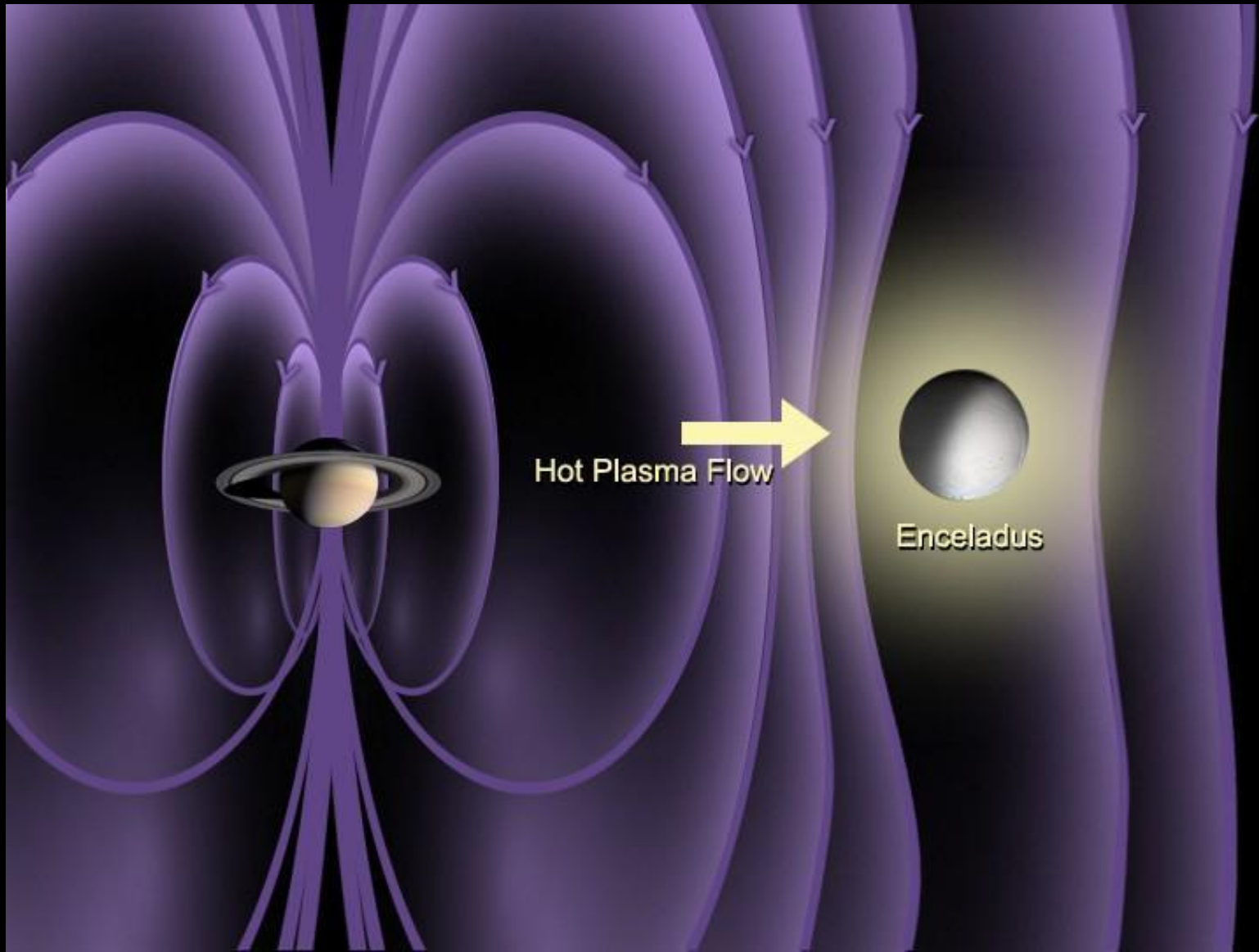
Titan's North Polar Lakes and Seas
as revealed by the Cassini Titan RADAR Mapper





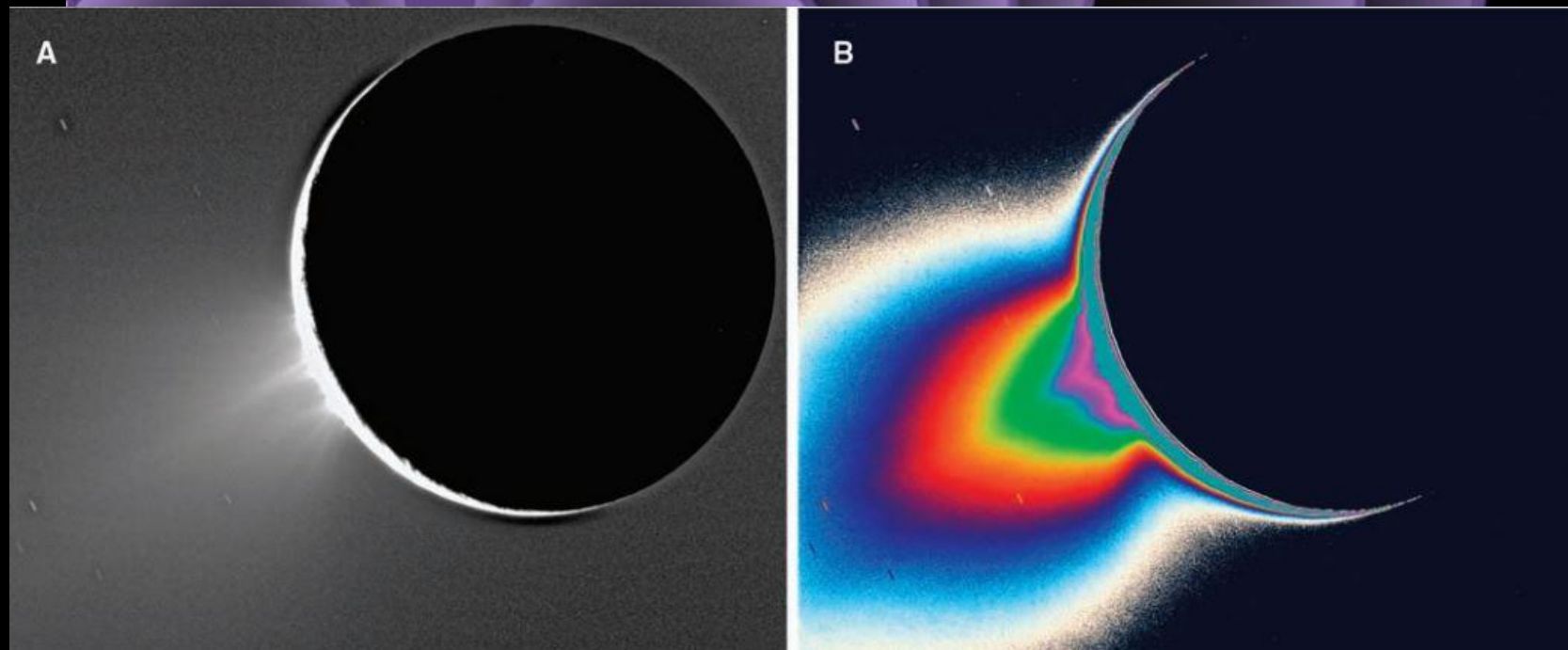
Enceladus

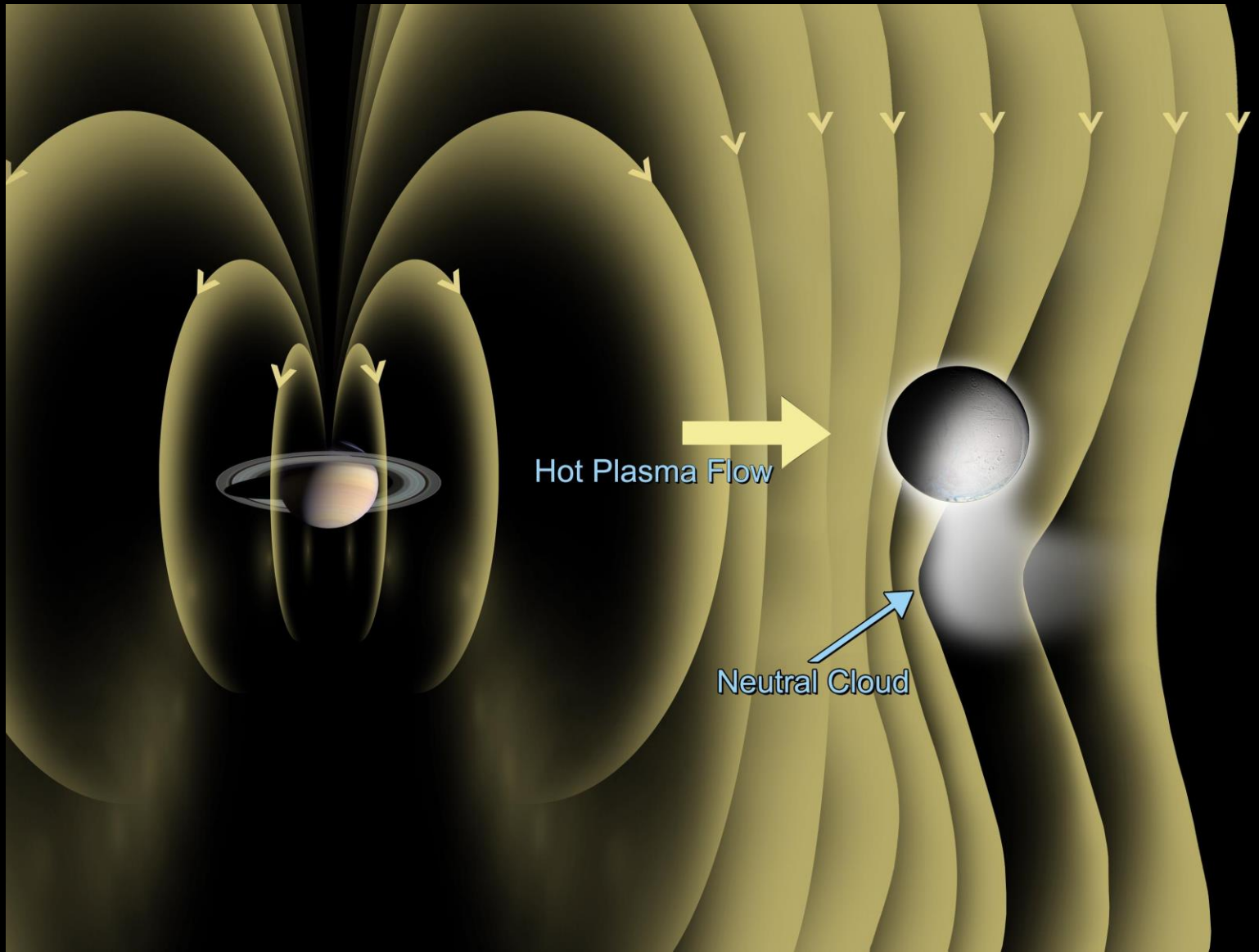




Hot Plasma Flow

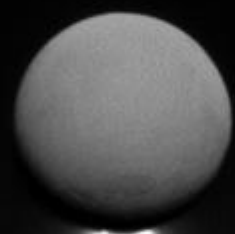
Enceladus

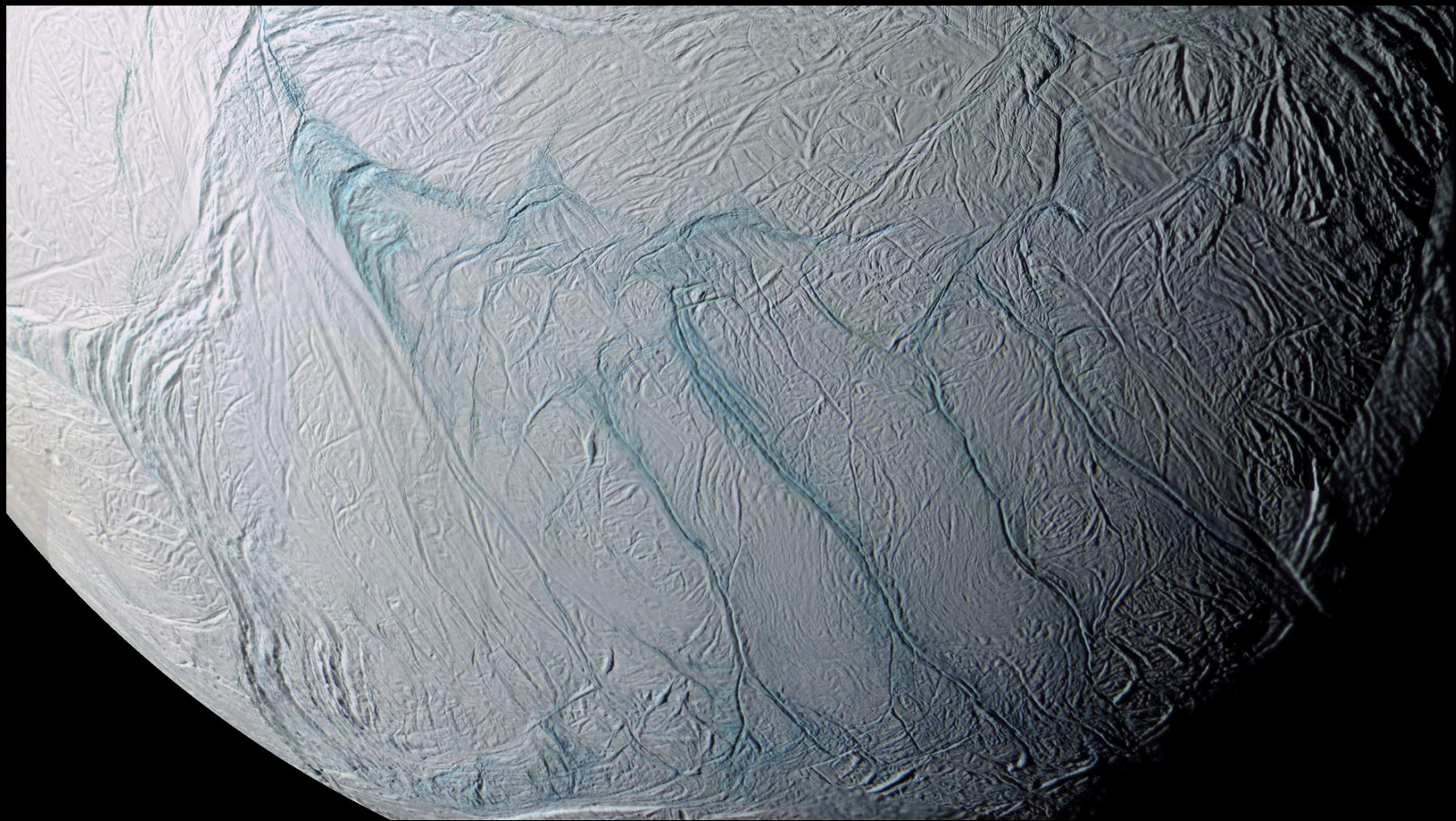




Hot Plasma Flow

Neutral Cloud

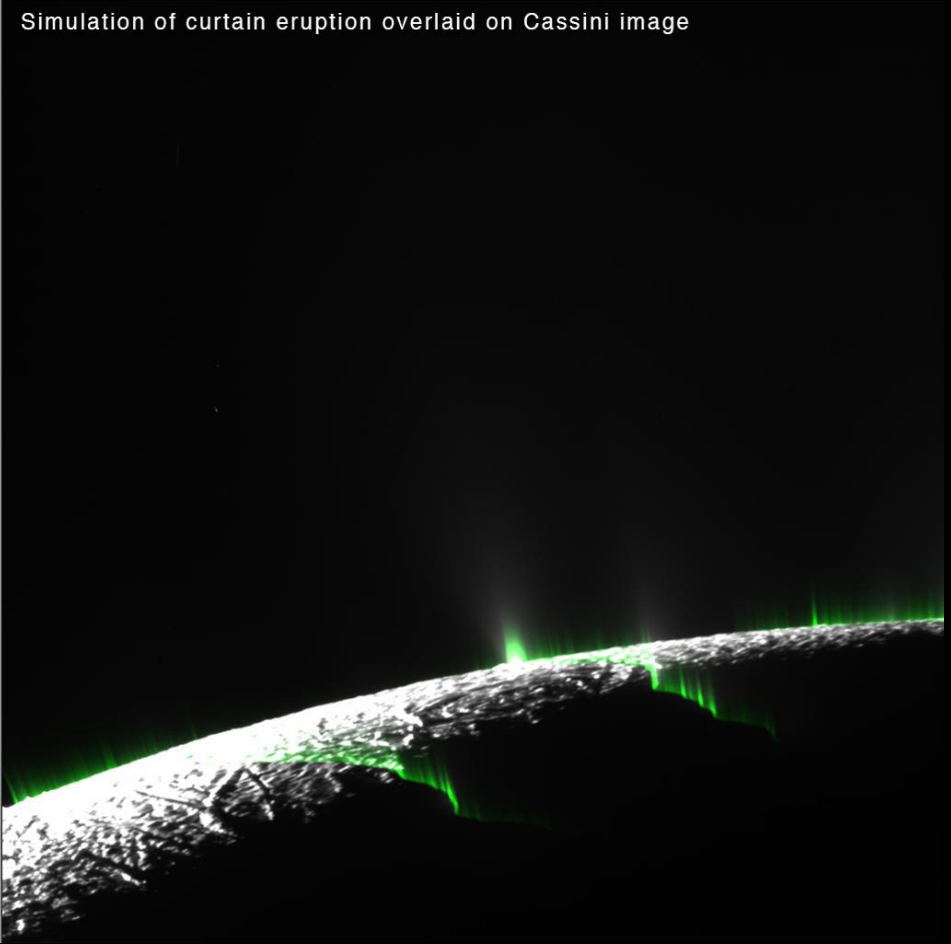




Cassini image (brightness enhanced)

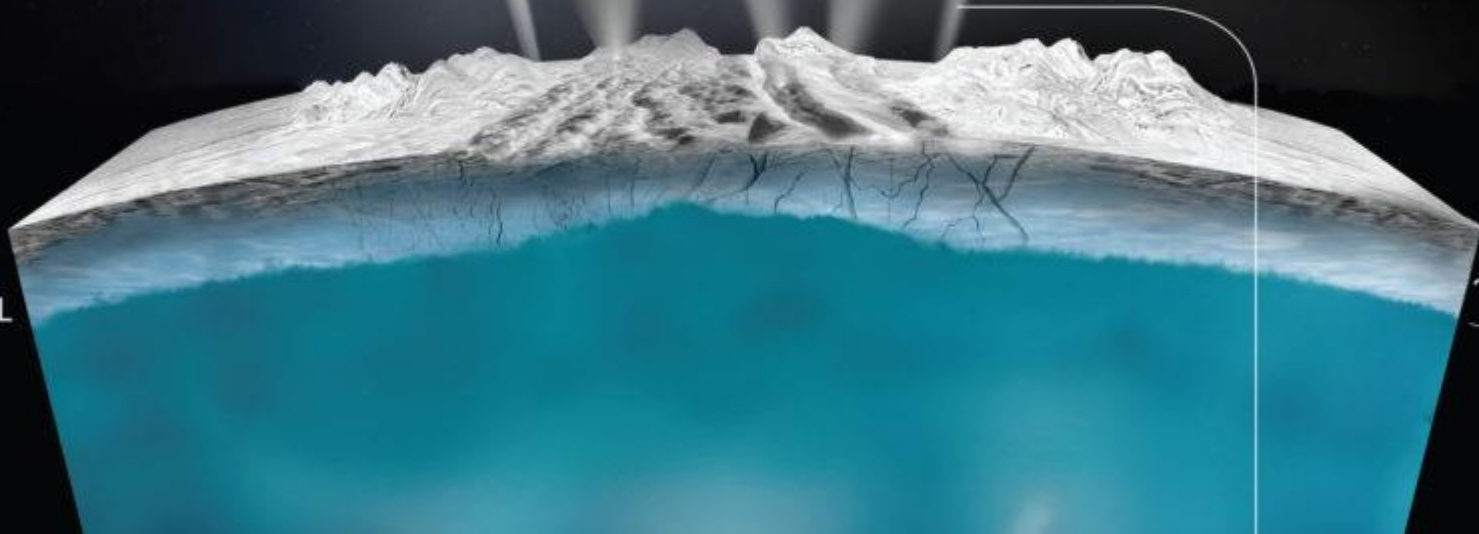


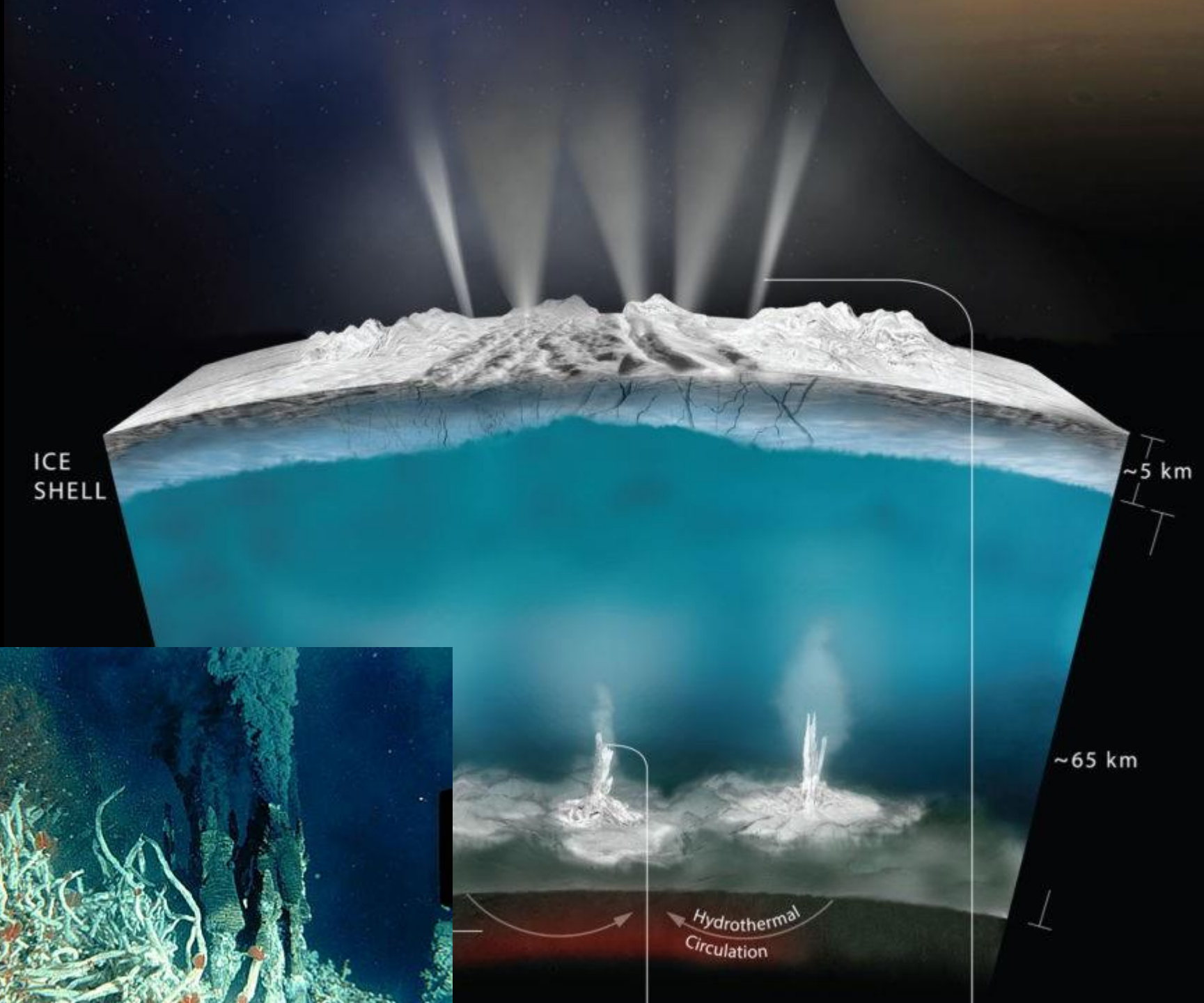
Simulation of curtain eruption overlaid on Cassini image



ICE SHELL

~5 km





Mimas



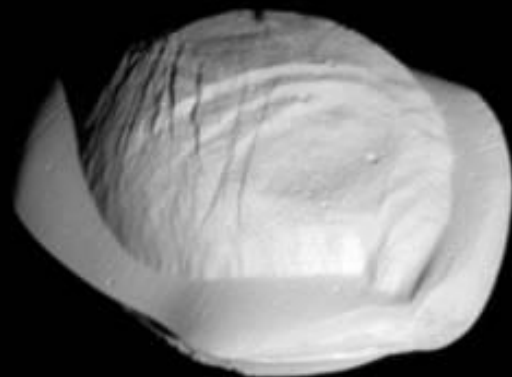
Hyperion



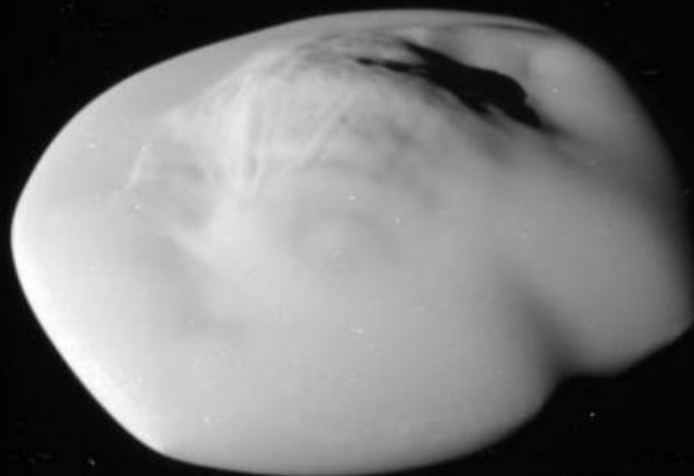
Iapetus



Janus & Epimetheus

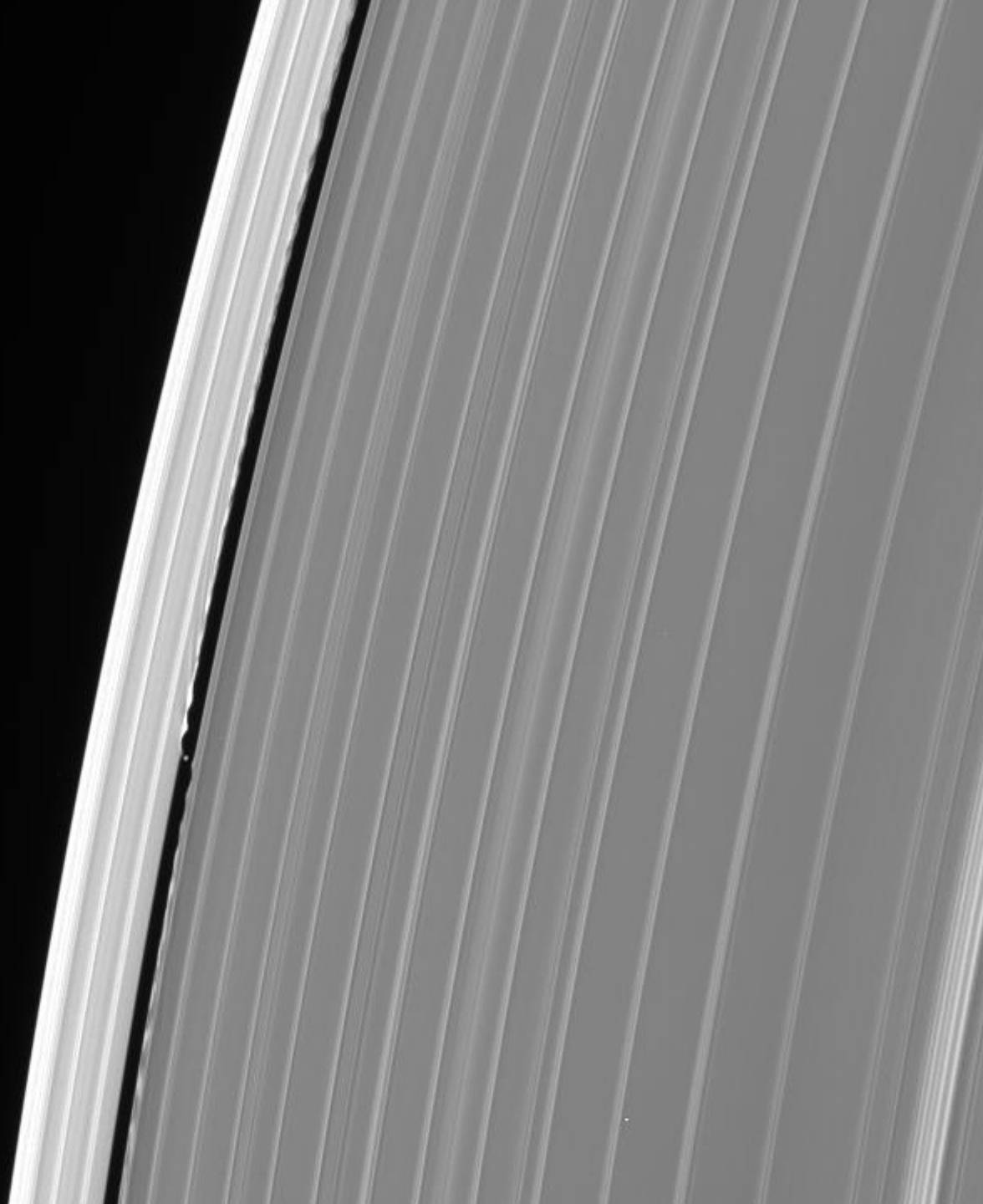


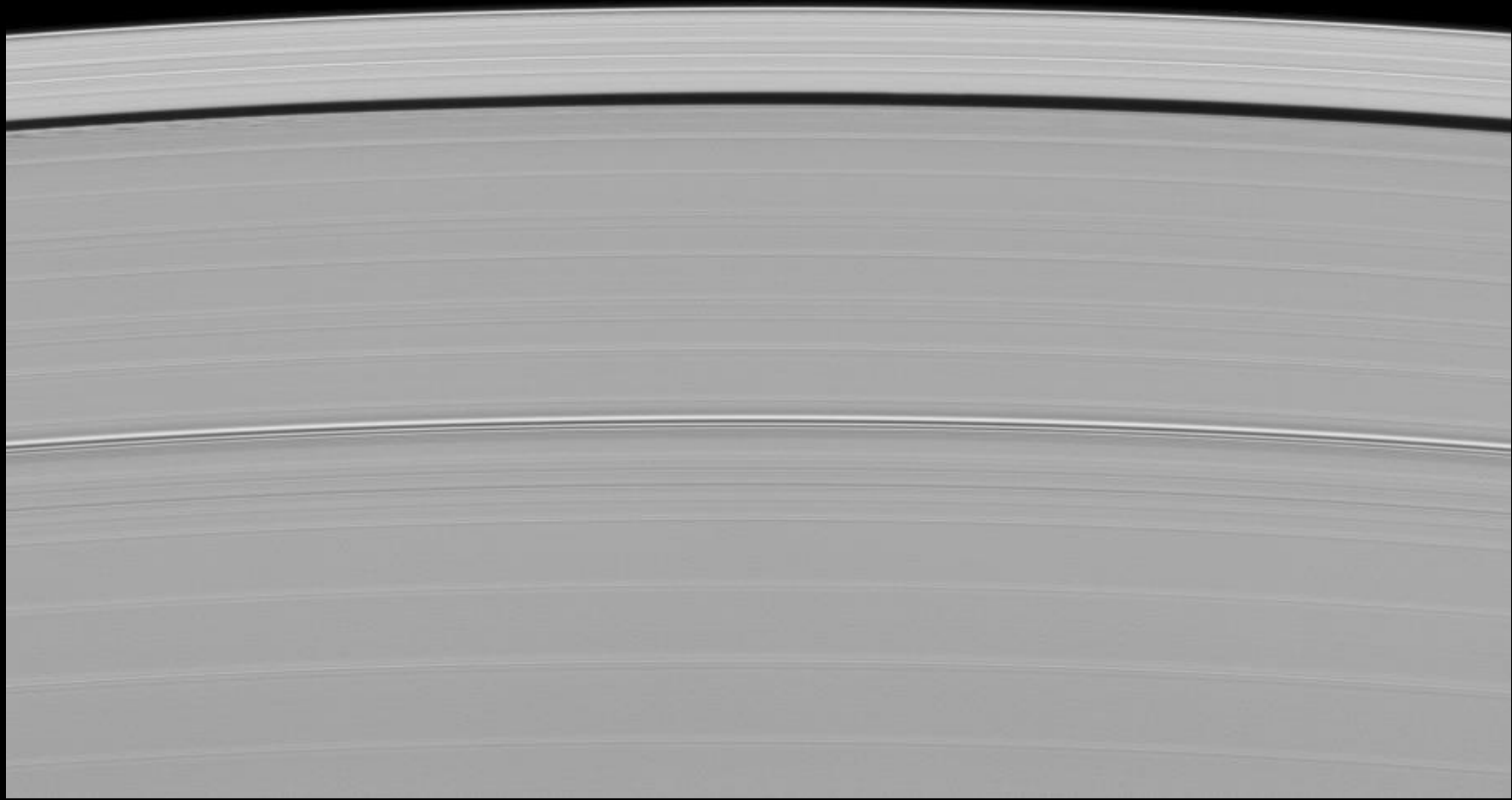
Pan

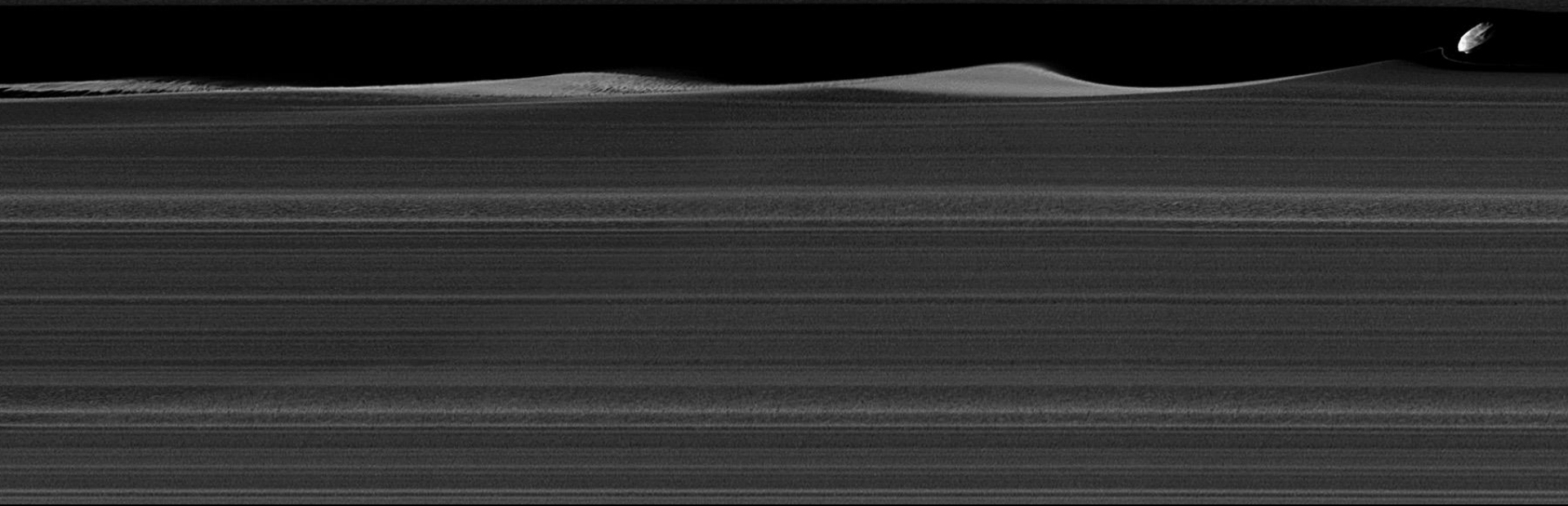


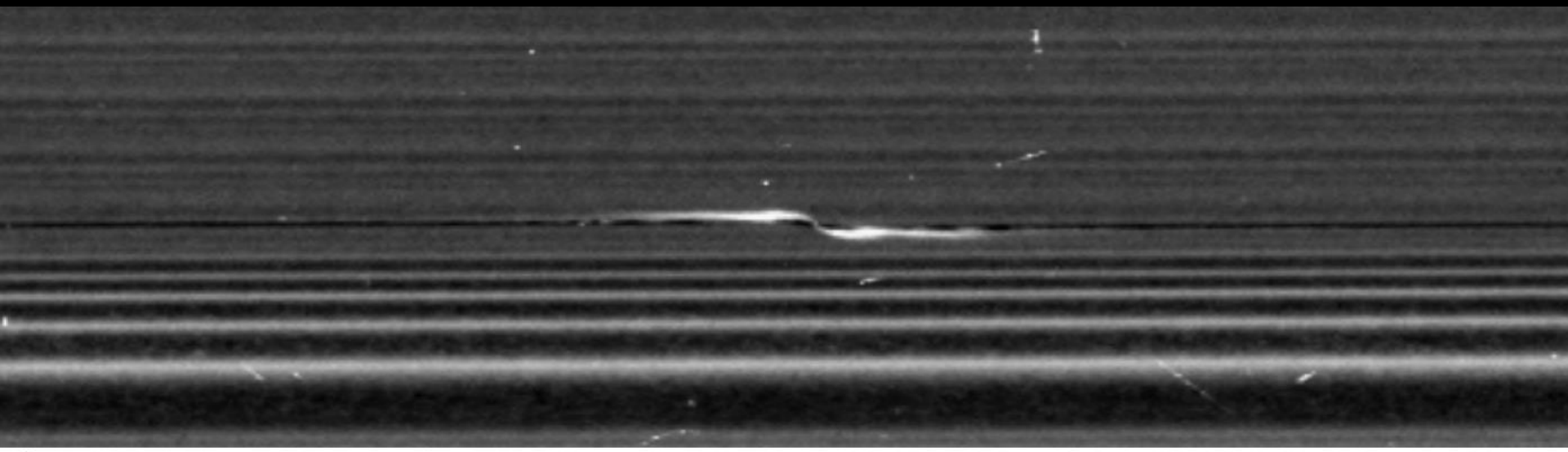
Atlas

Rings



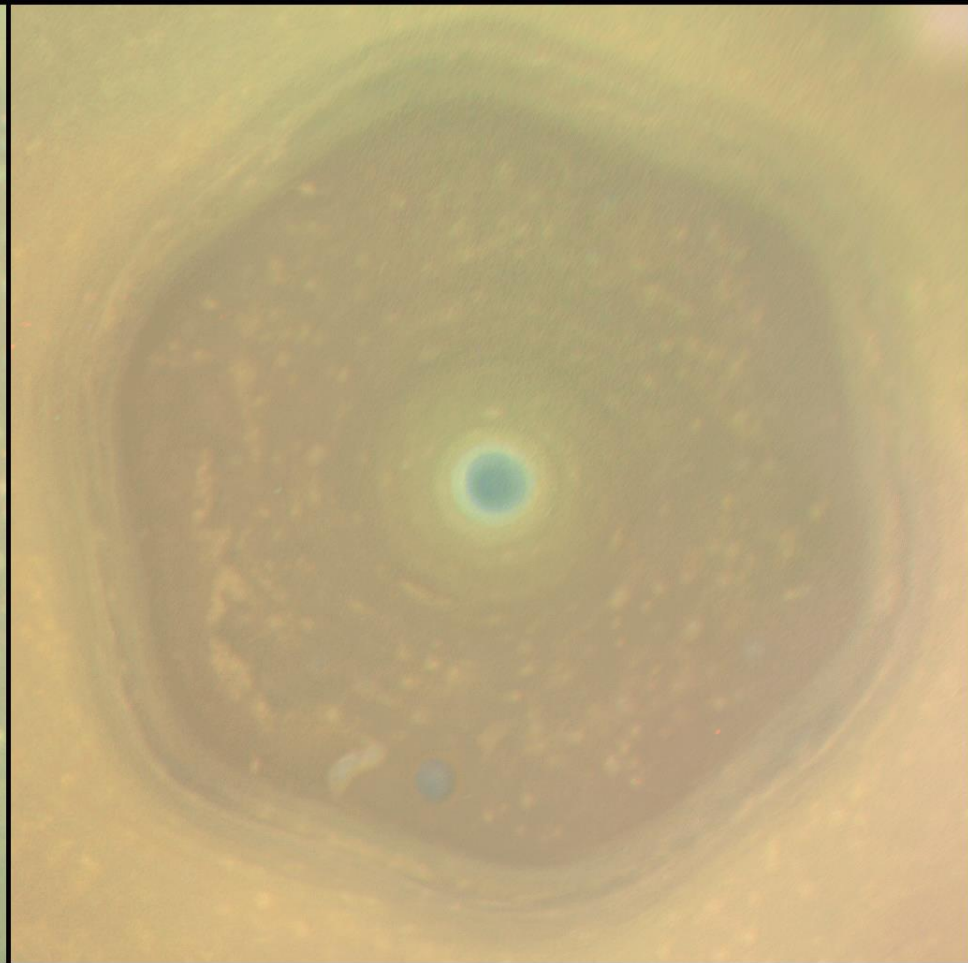
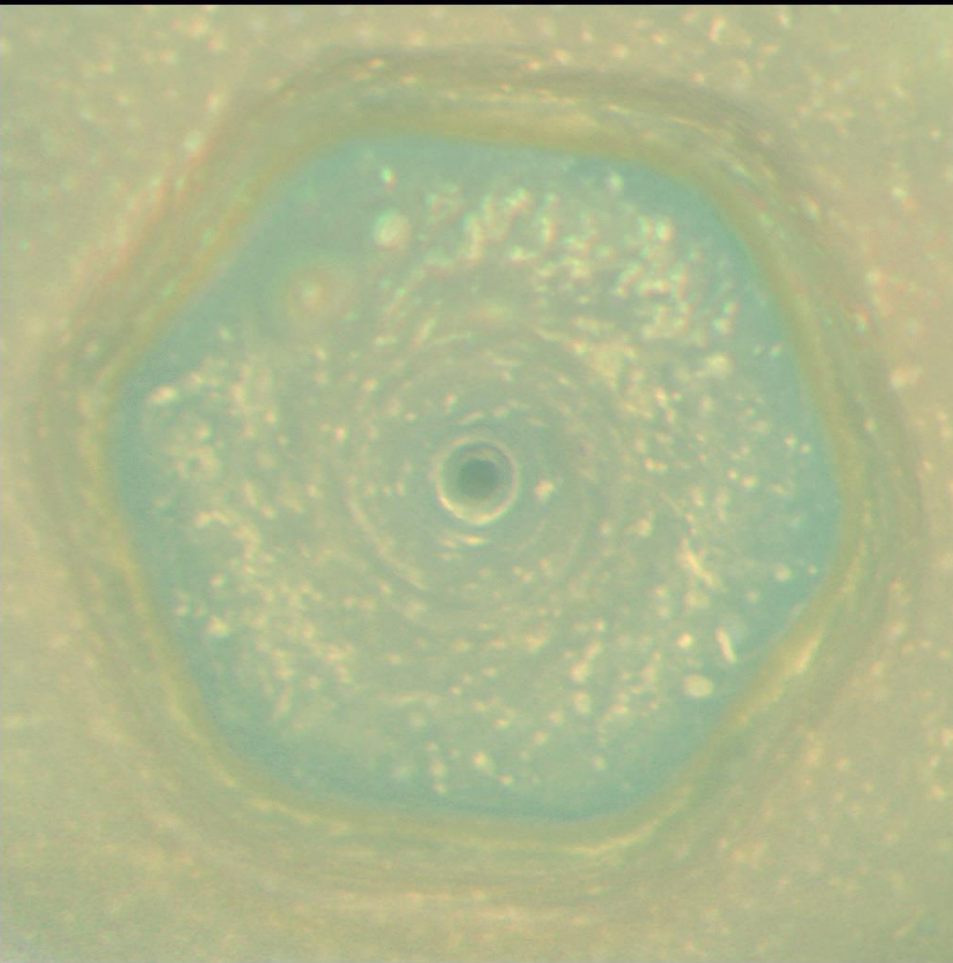


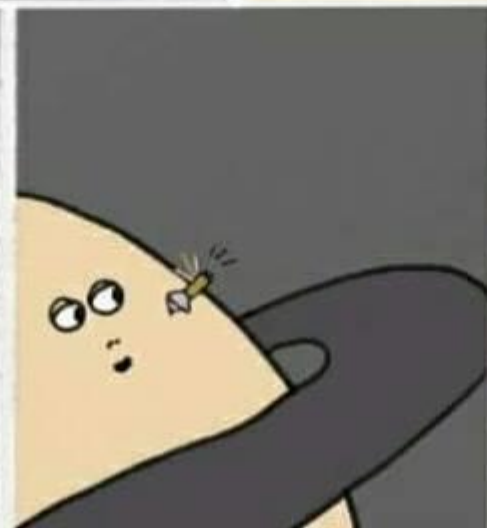
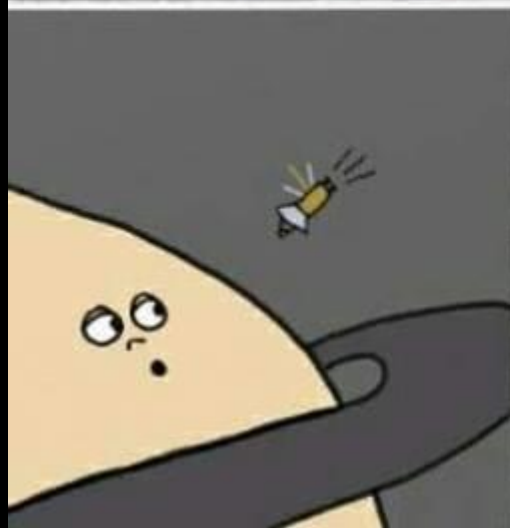


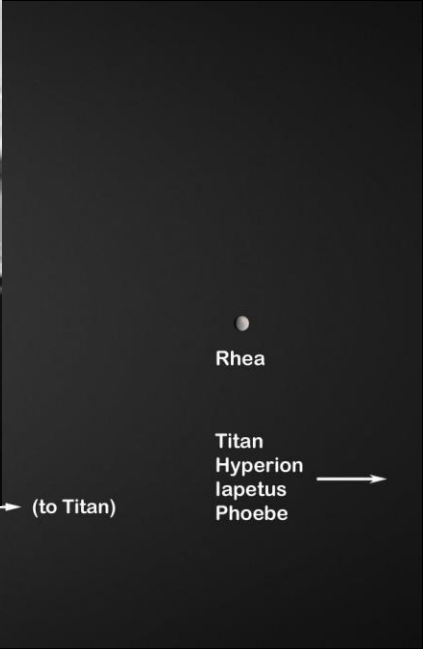
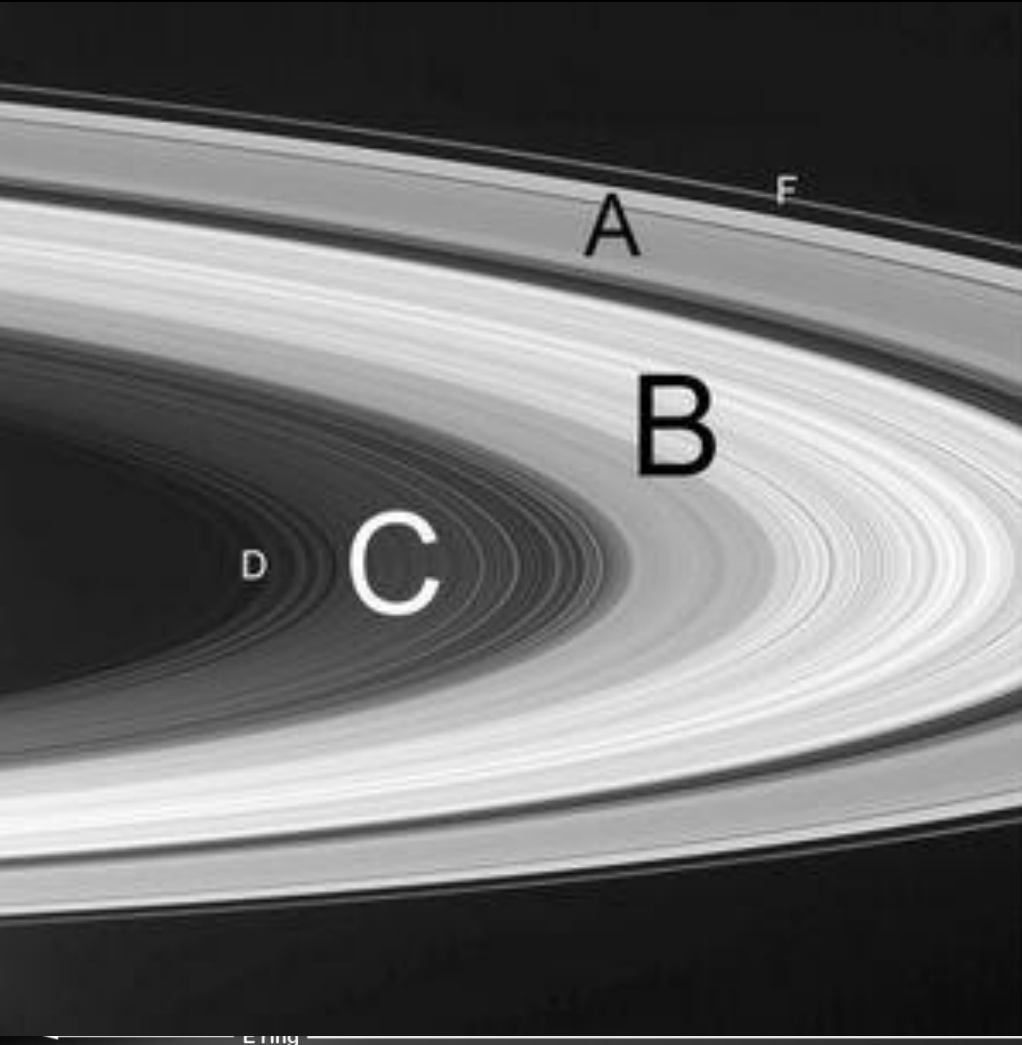
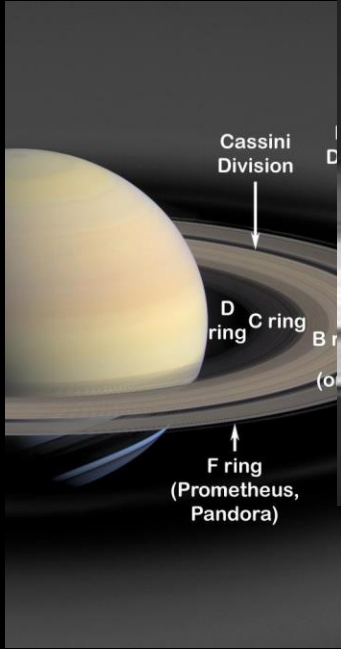


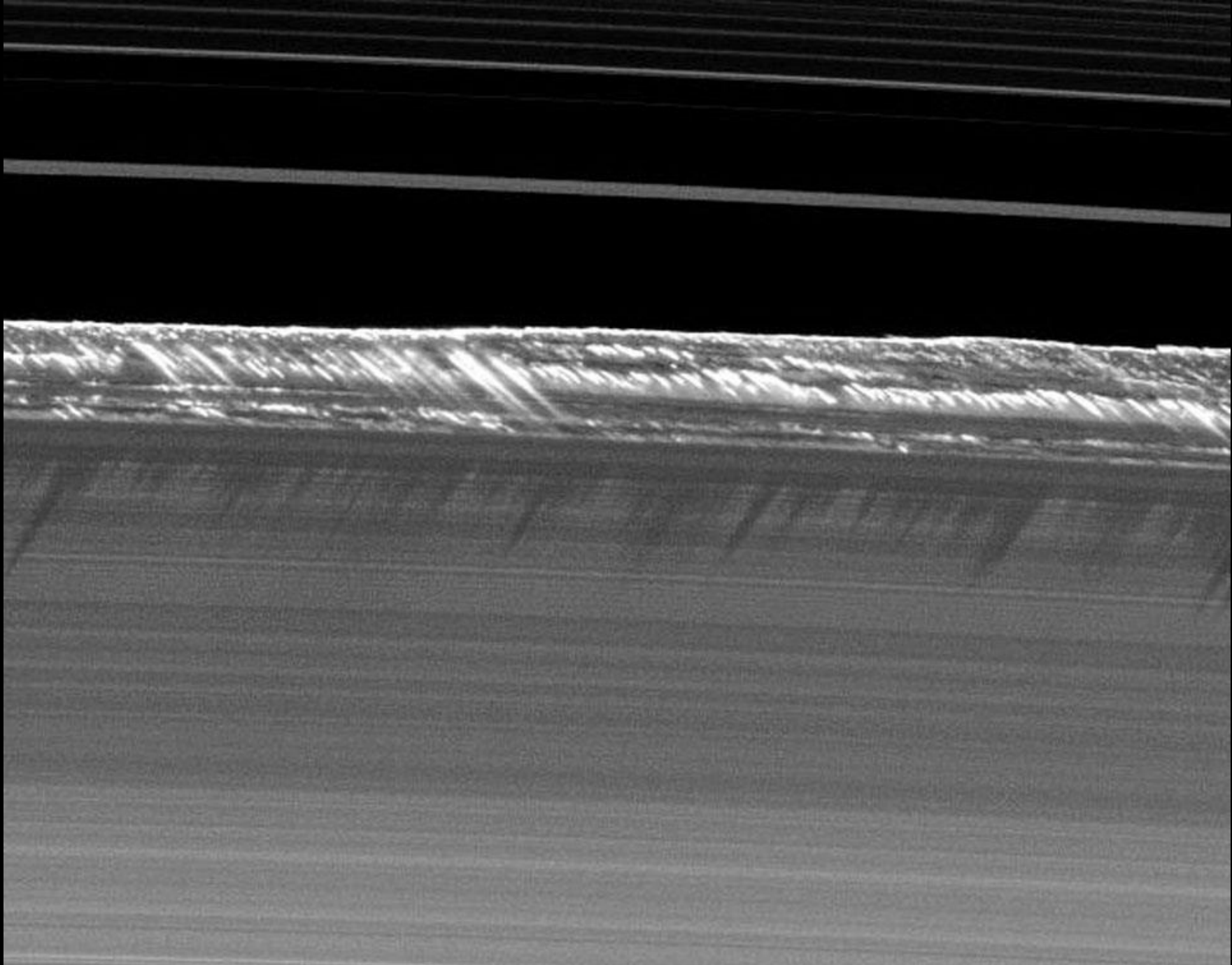
Atmosphere



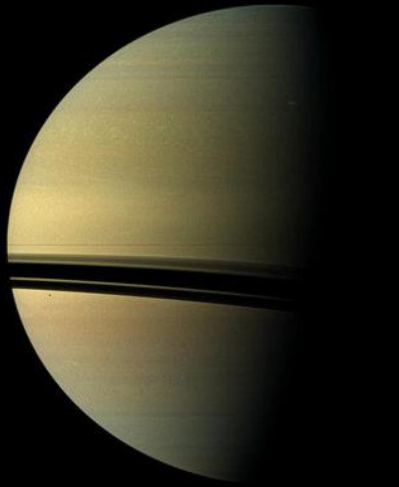




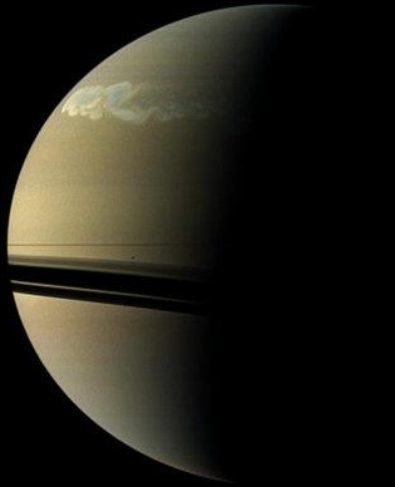




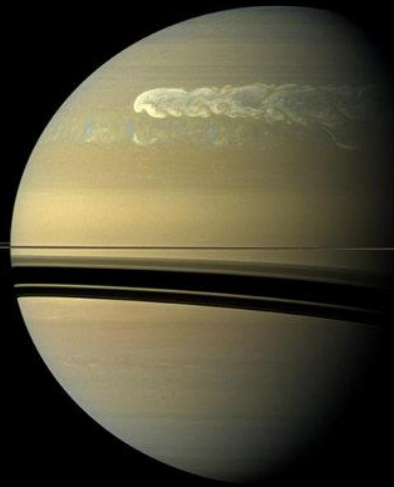
Dec 5, 2010



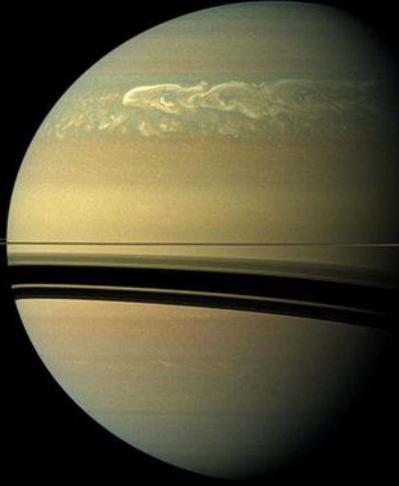
Jan 2, 2011



Feb 25, 2011



Apr 22, 2011



May 18, 2011



Aug 12, 2011

