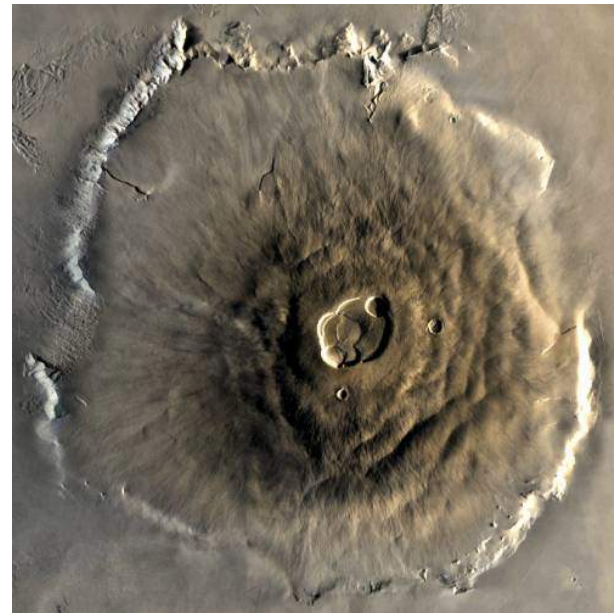
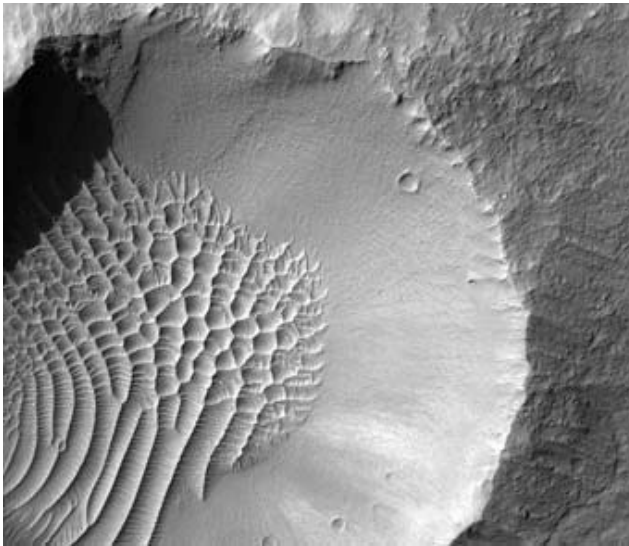
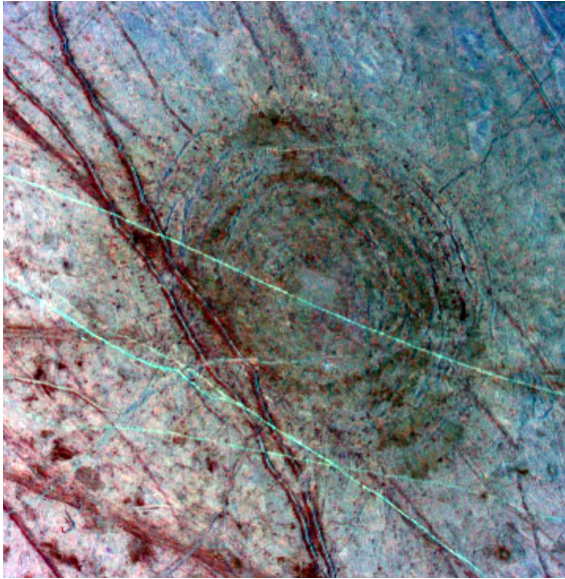
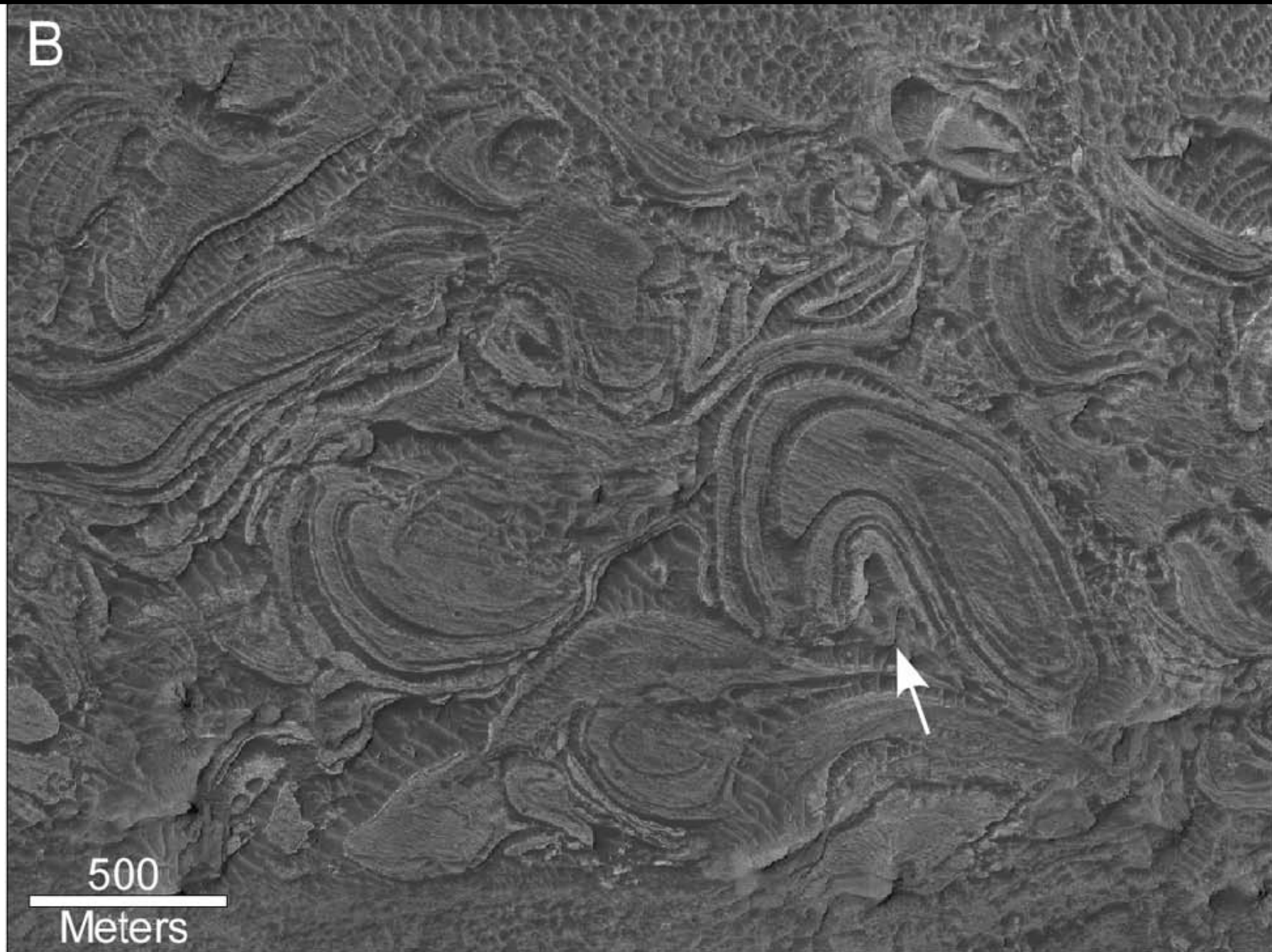


Planetary Surface Processes



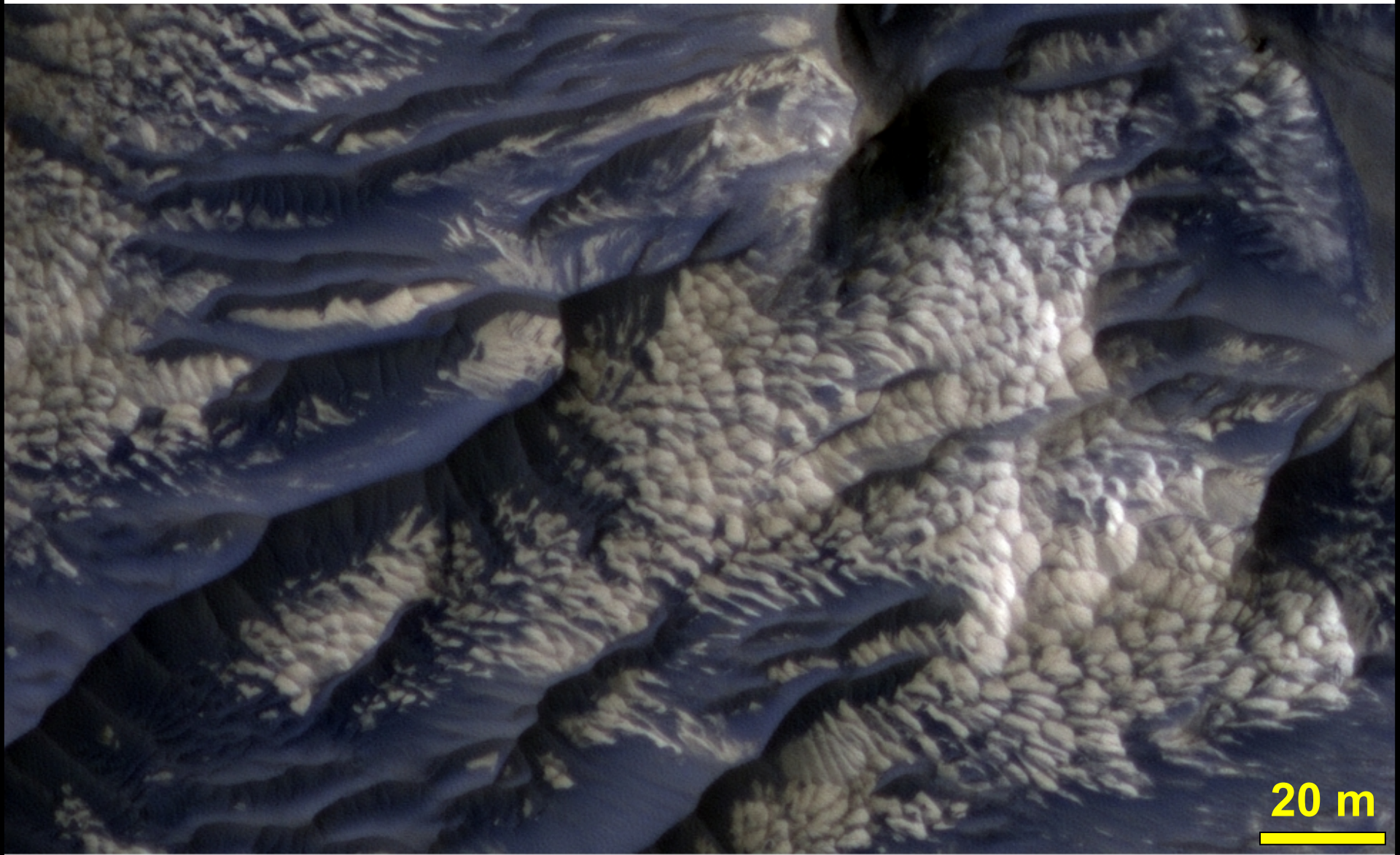
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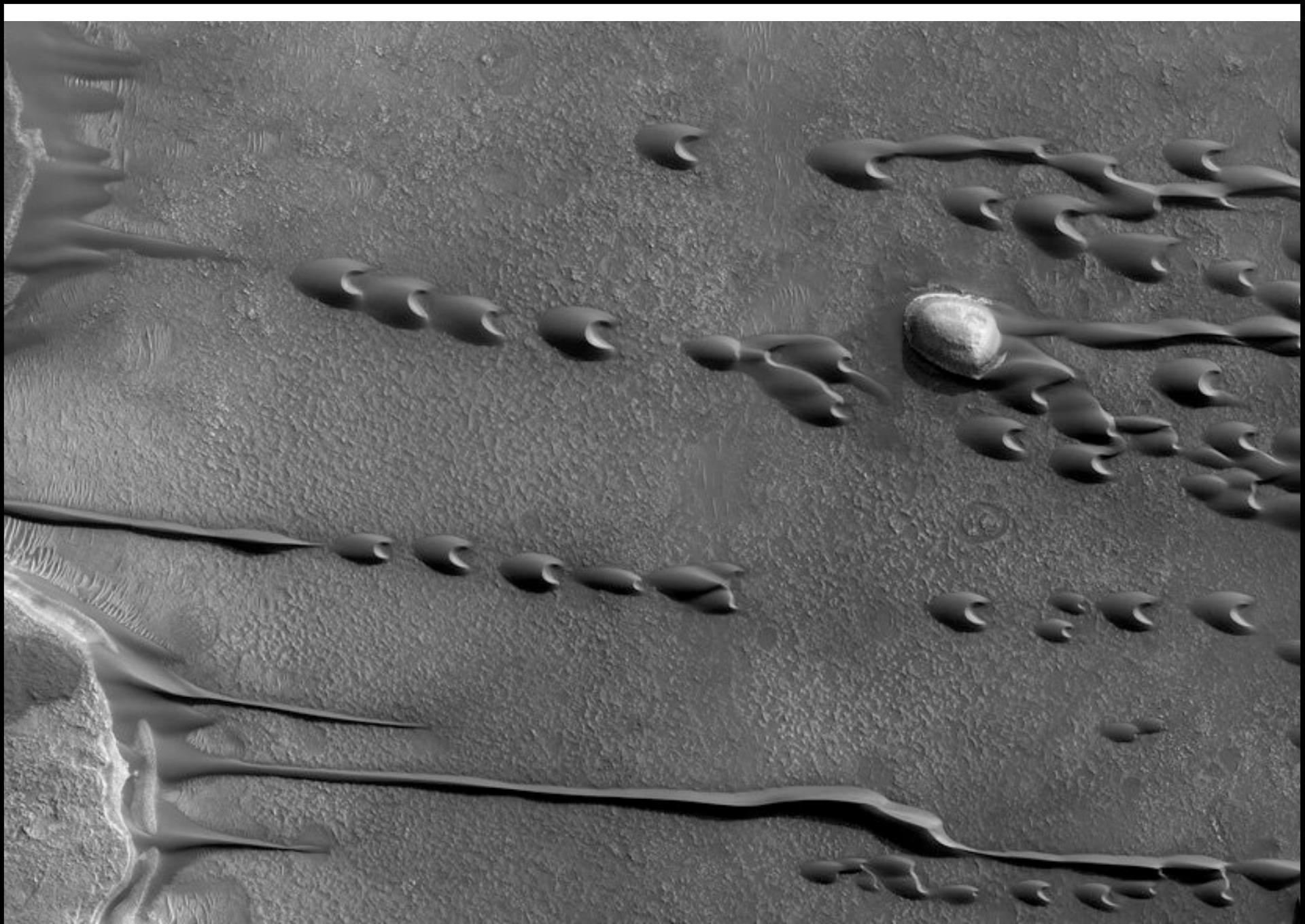


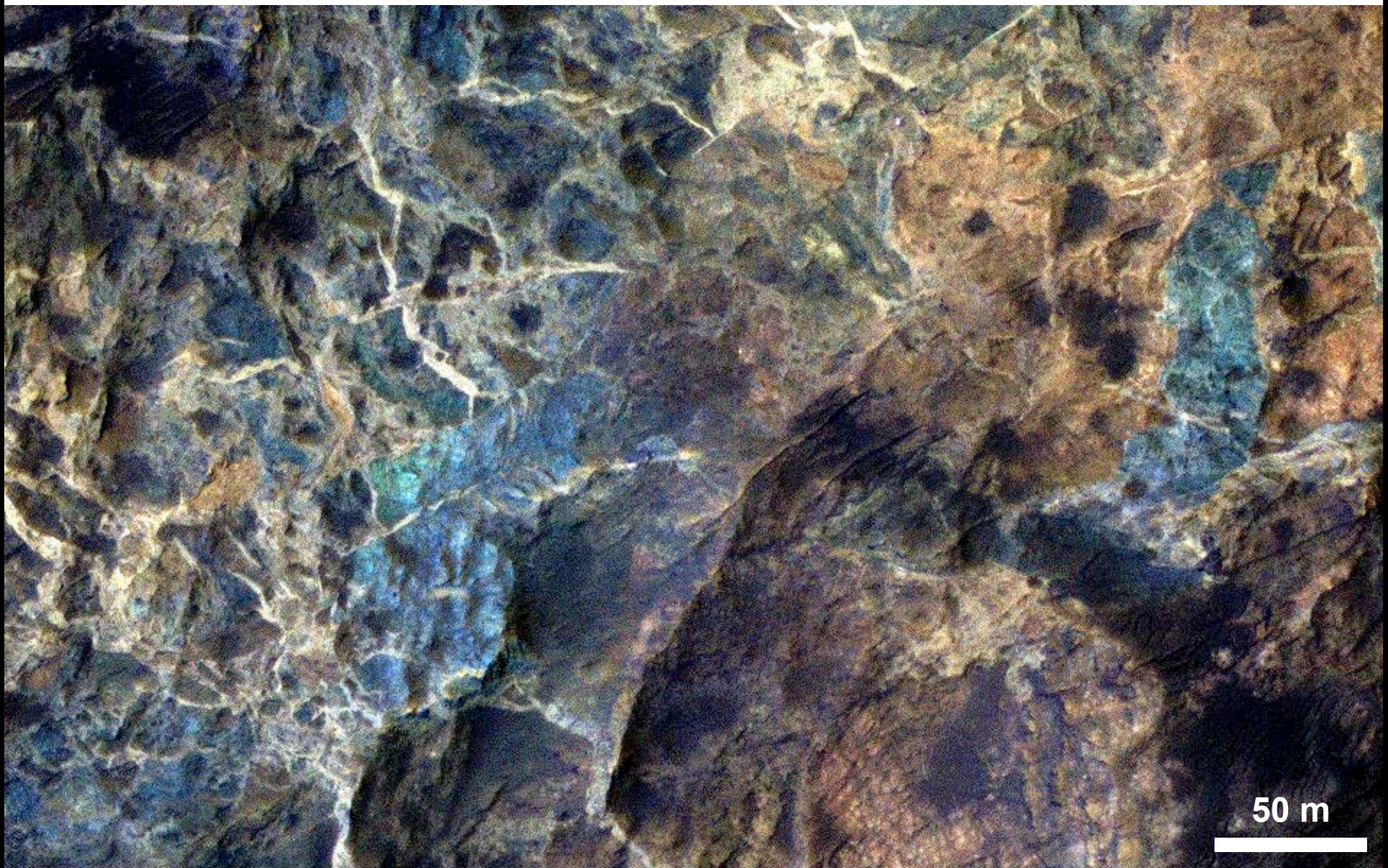
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Meters



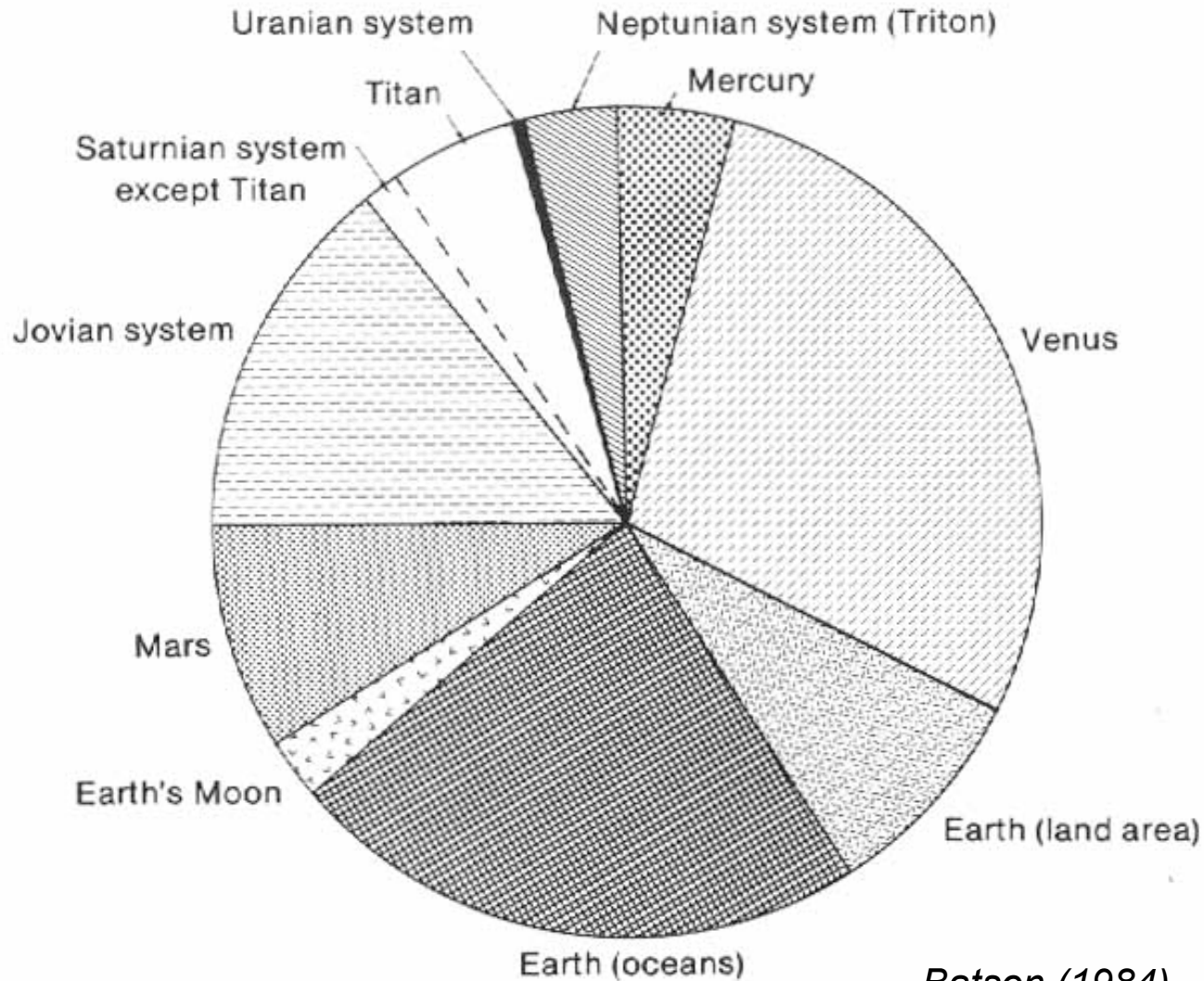








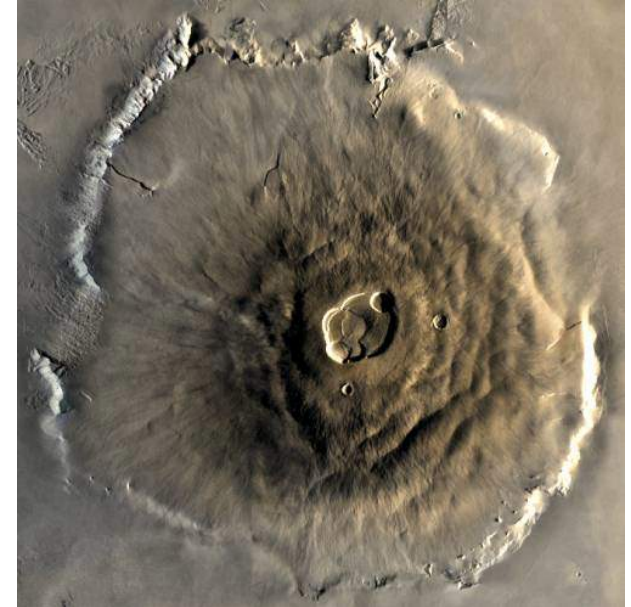
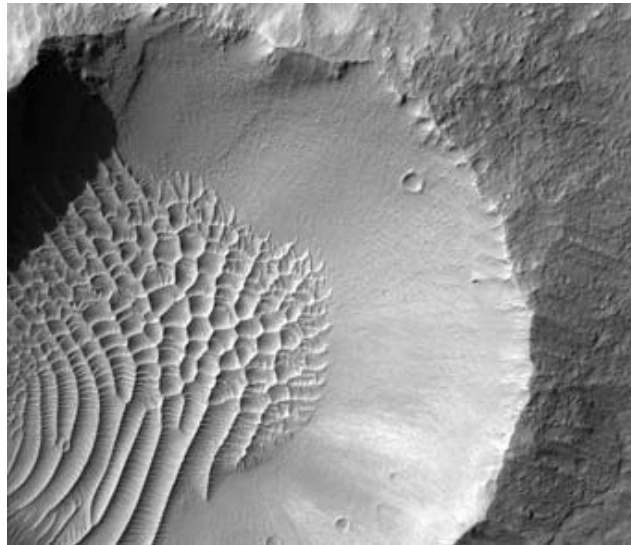
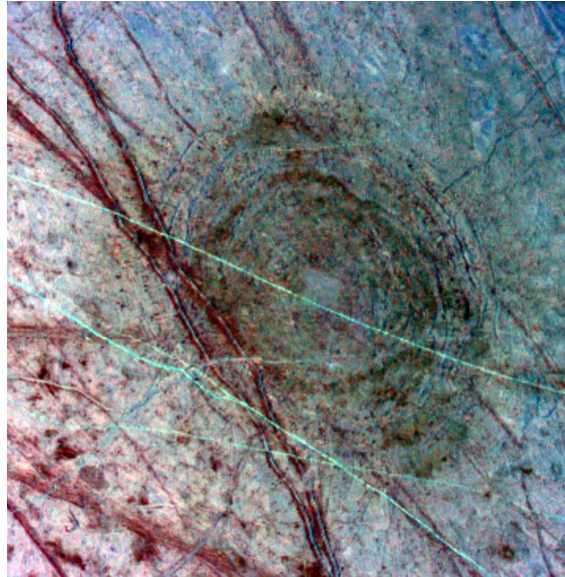
Mappable surfaces of the solar system

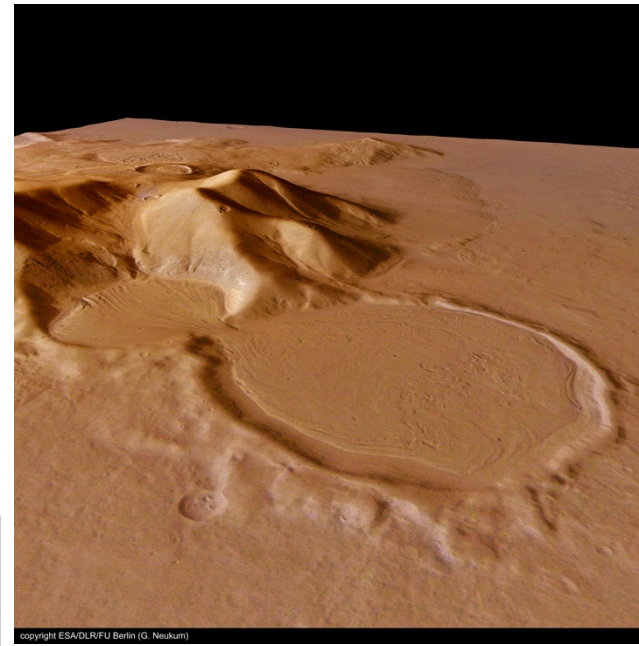


Batson (1984)

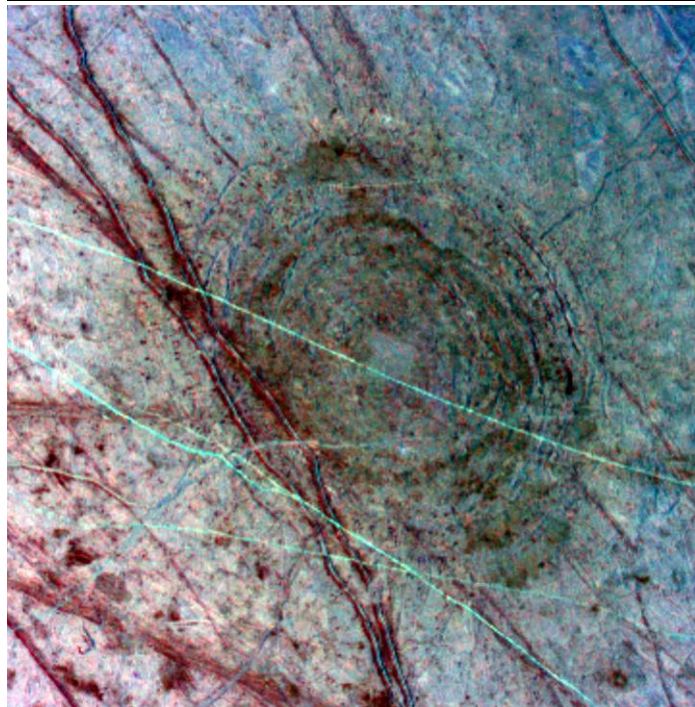
Planetary Surface Processes

Cratering
Gravity
Tectonics
Volcanism
Winds
Fluvial
Glacial
Chemical
weathering

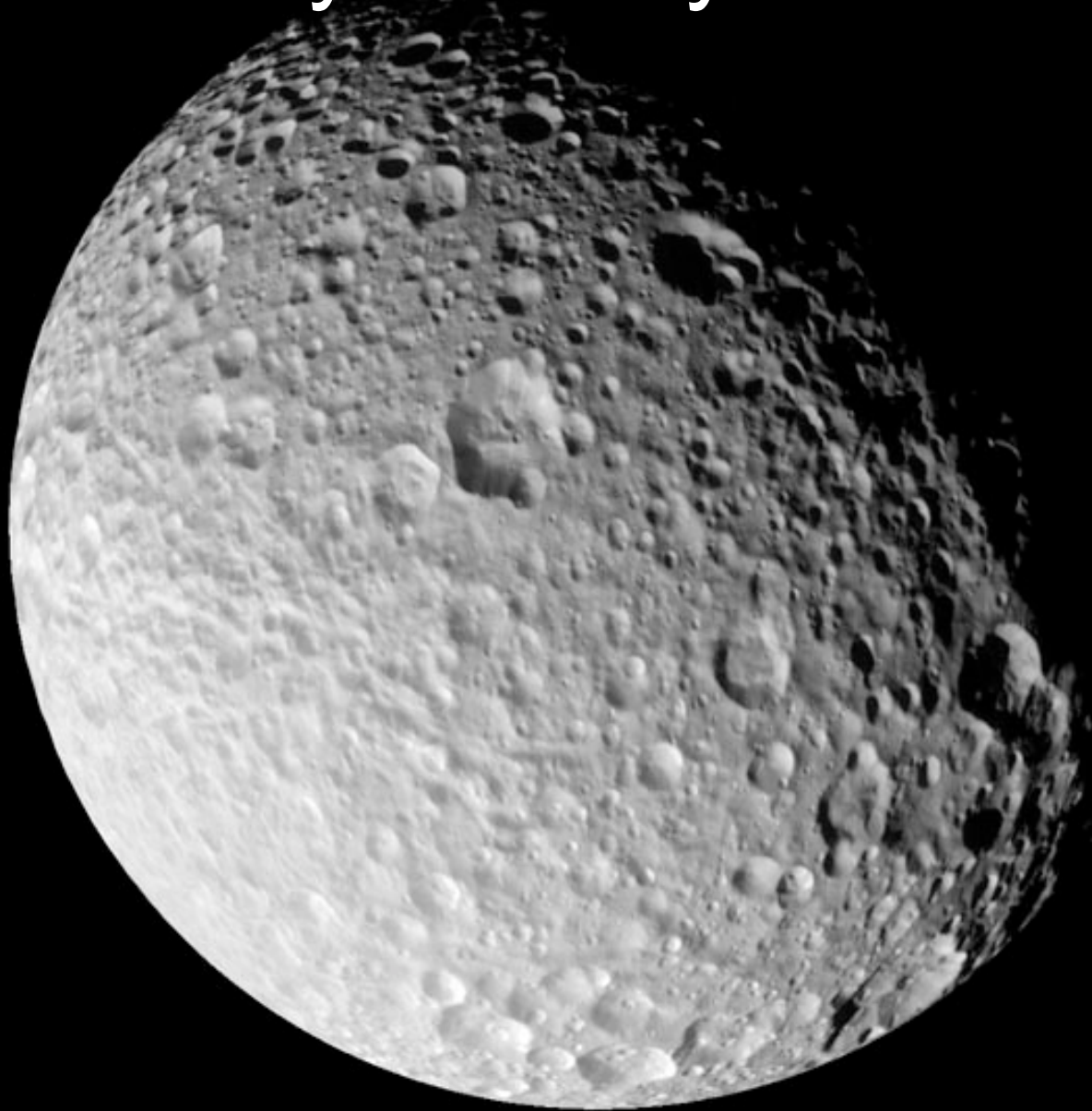




Craters



They're everywhere!



The sky *is* falling!

“I would rather believe that two Yankee professors would lie than believe that stones fall from heaven.”

—*Thomas Jefferson*

The sky *is* falling!

TABLE 3 Chances of dying from selected causes (USA)

Cause of death	Chances
Motor vehicle accident	1 in 100
Murder	1 in 300
Fire	1 in 800
Firearms accident	1 in 2,500
Asteroid/comet impact (lower limit)	1 in 3,000
Electrocution	1 in 5,000
ASTEROID/COMET IMPACT	1 in 20,000
Passenger aircraft crash	1 in 20,000
Flood	1 in 30,000
Tornado	1 in 60,000
Venomous bite or sting	1 in 100,000
Asteroid/comet impact (upper limit)	1 in 250,000
Fireworks accident	1 in 1 million
Food poisoning by botulism	1 in 3 million
Drinking water with EPA limit of TCE*	1 in 10 million

* EPA, Environmental Protection Agency; TCE, trichloroethylene.

Chapman & Morrison (1994)

Terminology



1) *meteoroid*



2) *meteor*



3) *meteorite*