

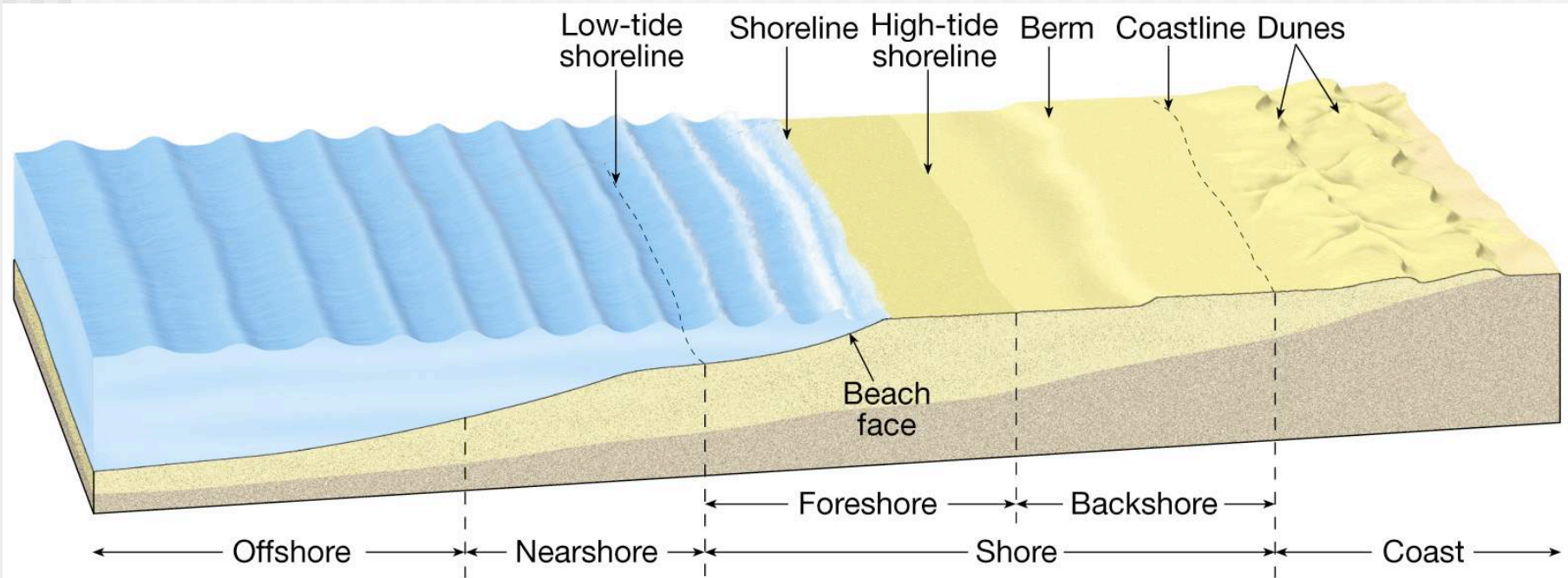
Chapter 20

Shorelines & Tsunamis



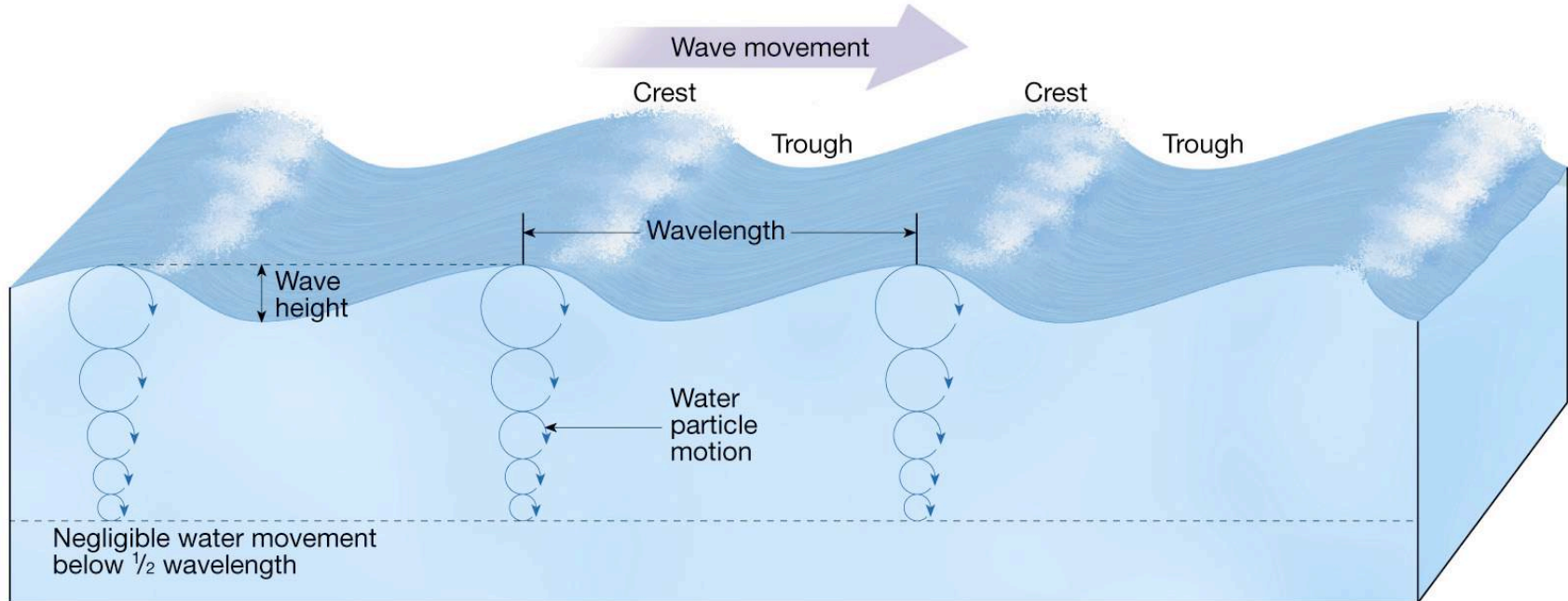
Baymouth bar

The Coastline



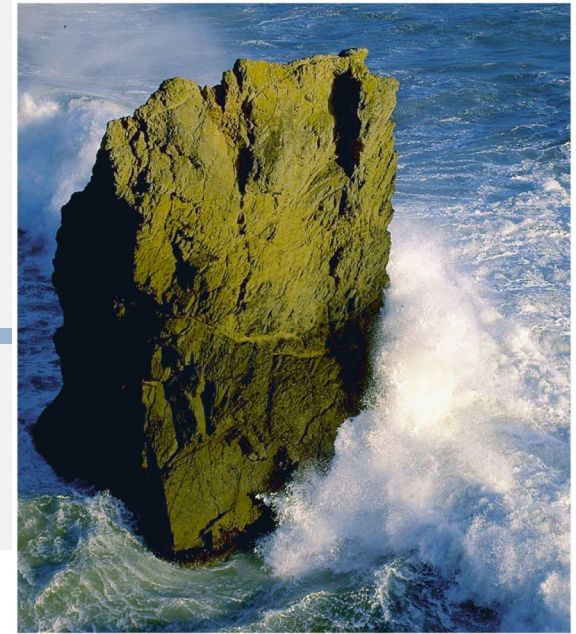
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Wave Motion

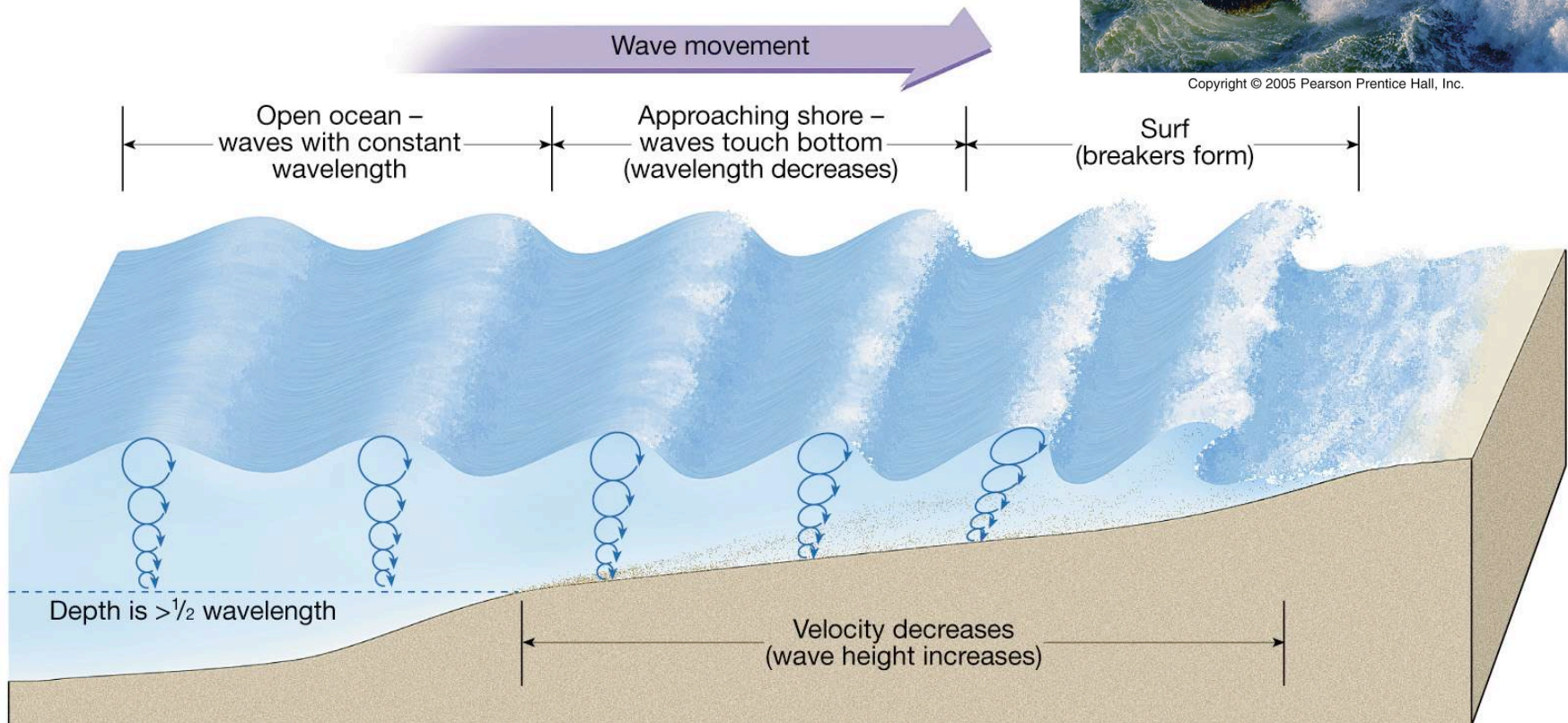


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Breaking Waves

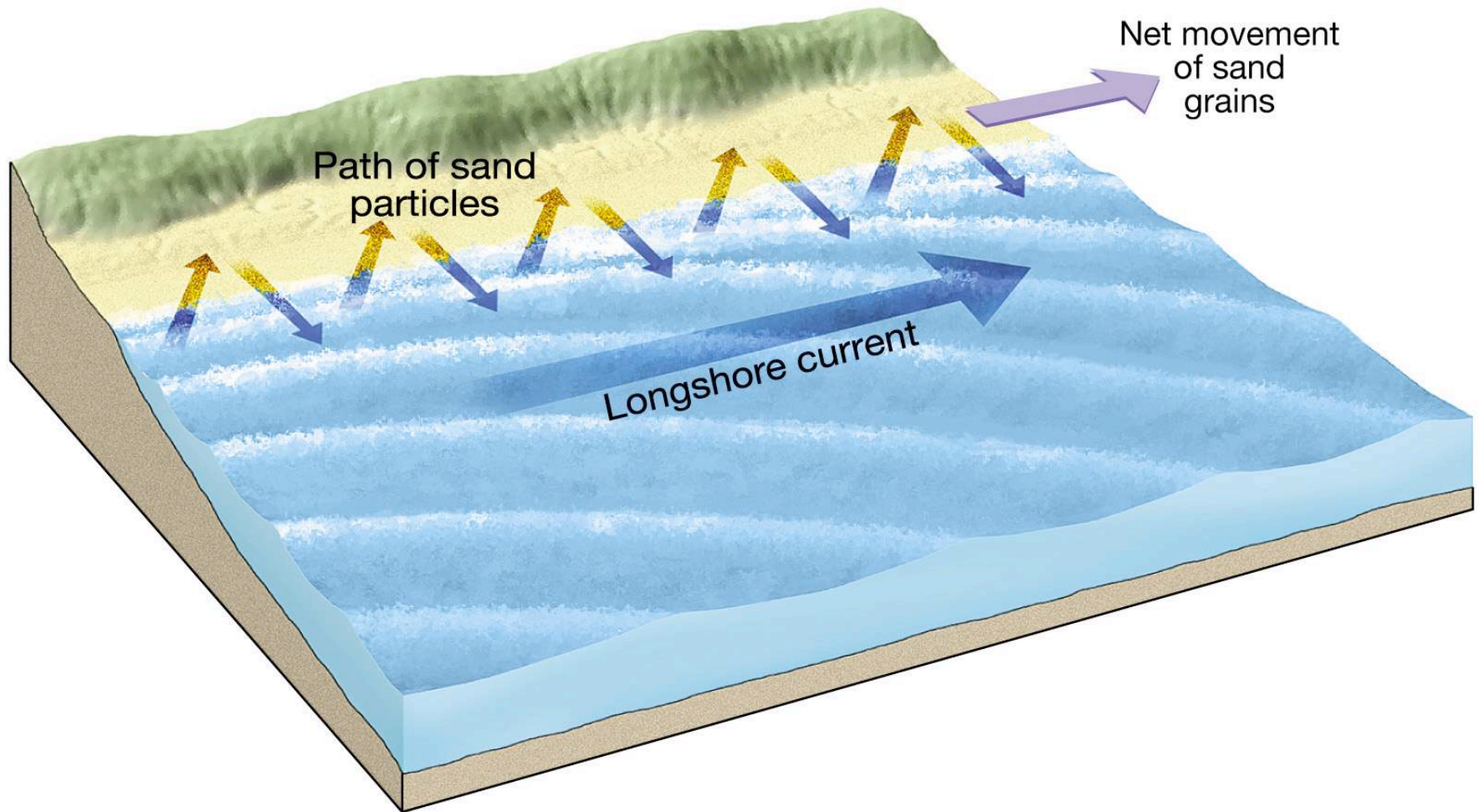


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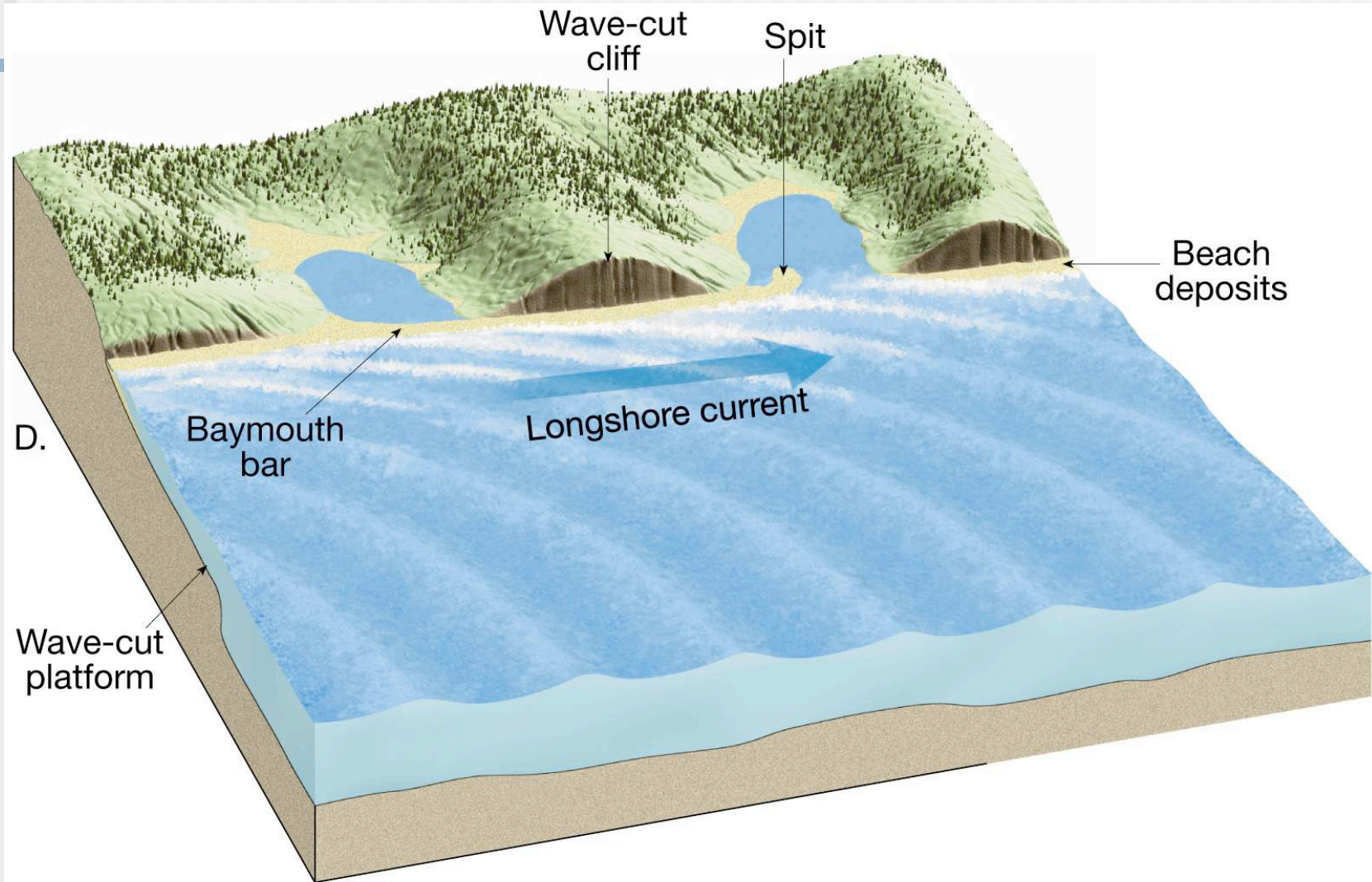


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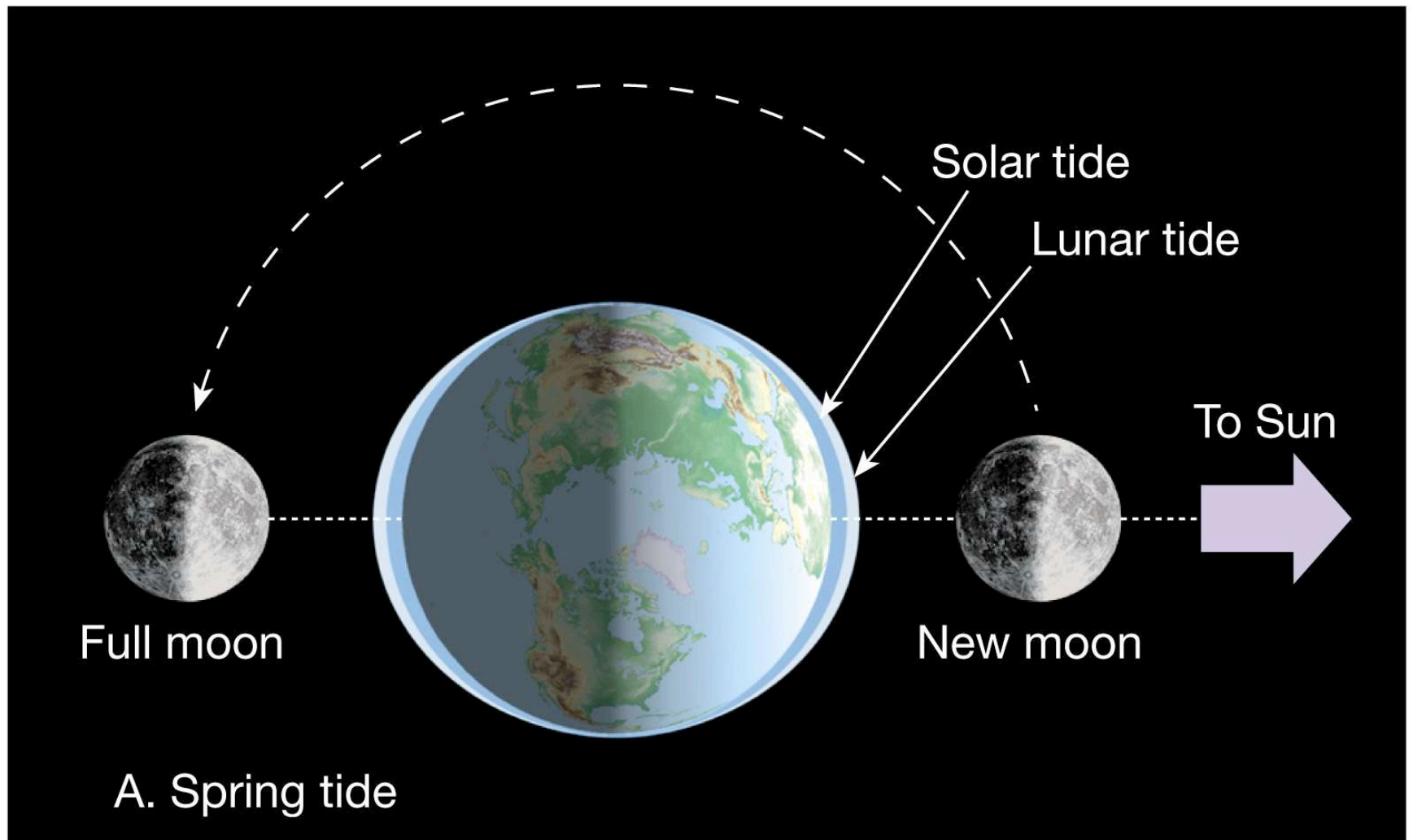
Longshore Currents



Erosion & Transport



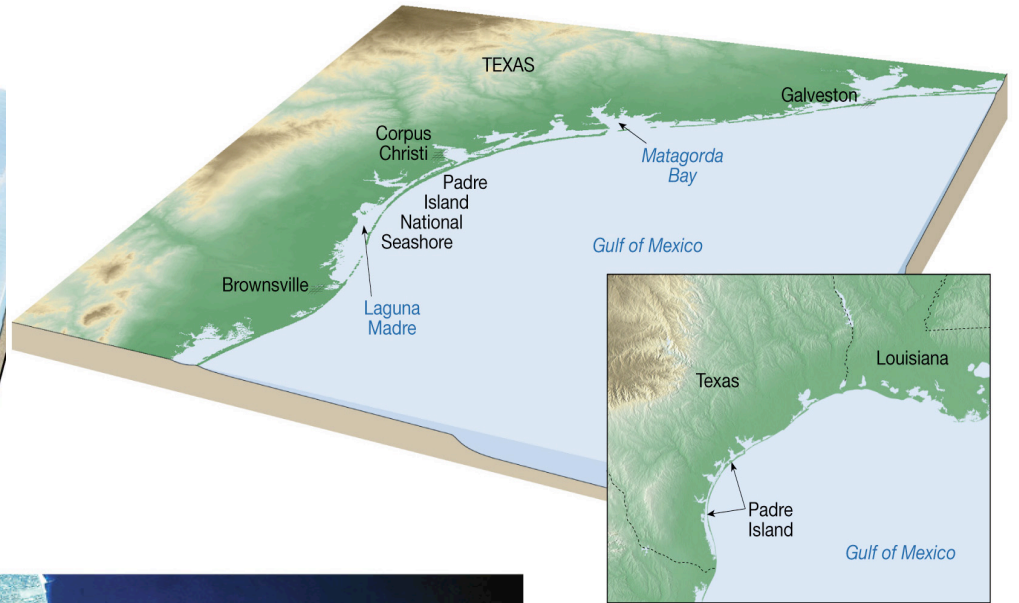
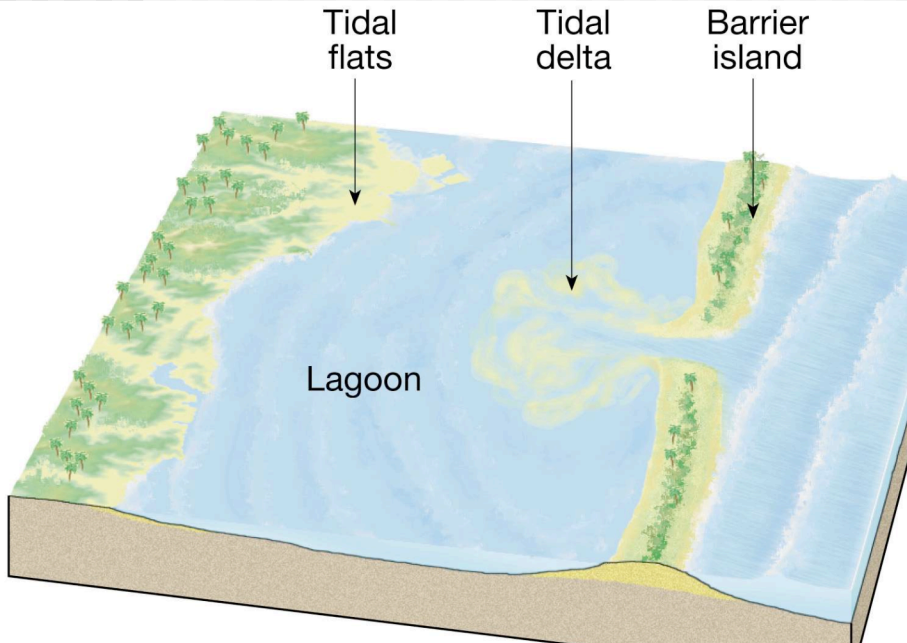
The Solar and Lunar Tides



High vs Low Tides



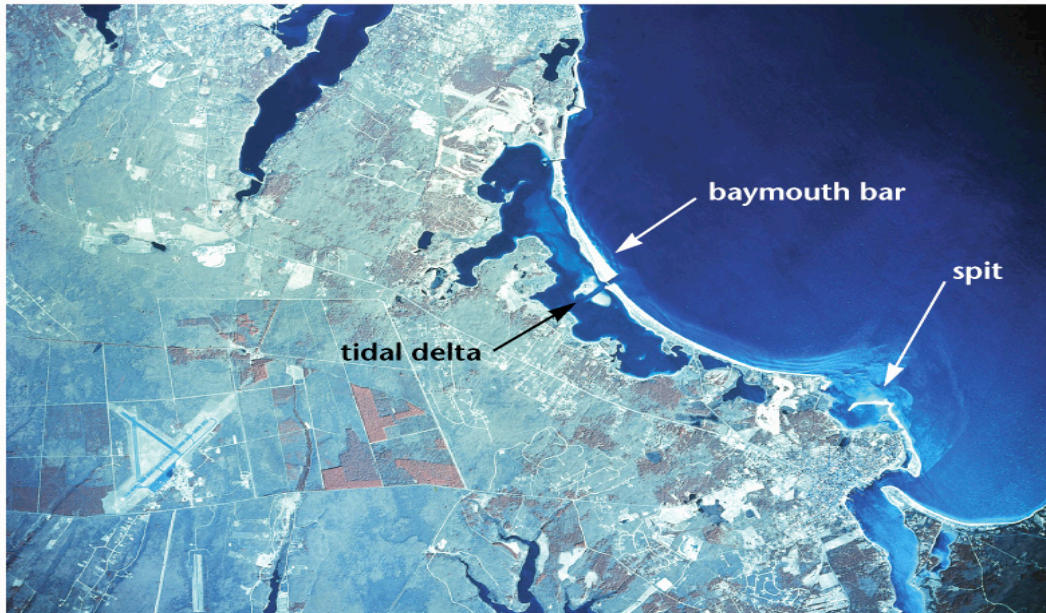
Coastal Features



Texas

Copyri

Mass



Spits



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Stabilizing-Jetties



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New Jersey Coast Line

Other Features

Sea Arch



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Stacks



Wave-cut
platform

Marine terrace

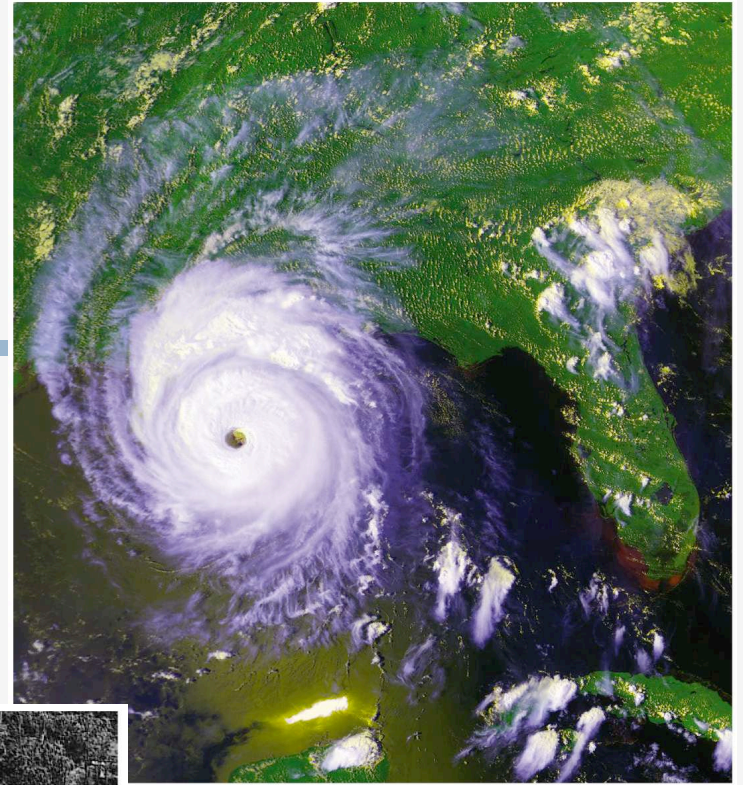
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Estuaries

Drowned River Valley



Hurricanes

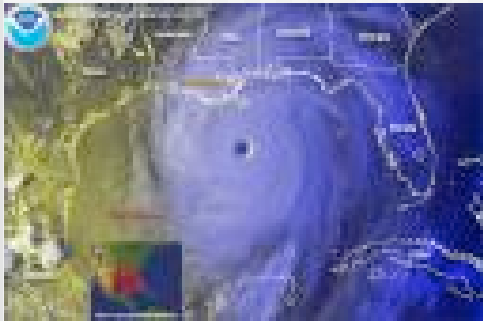


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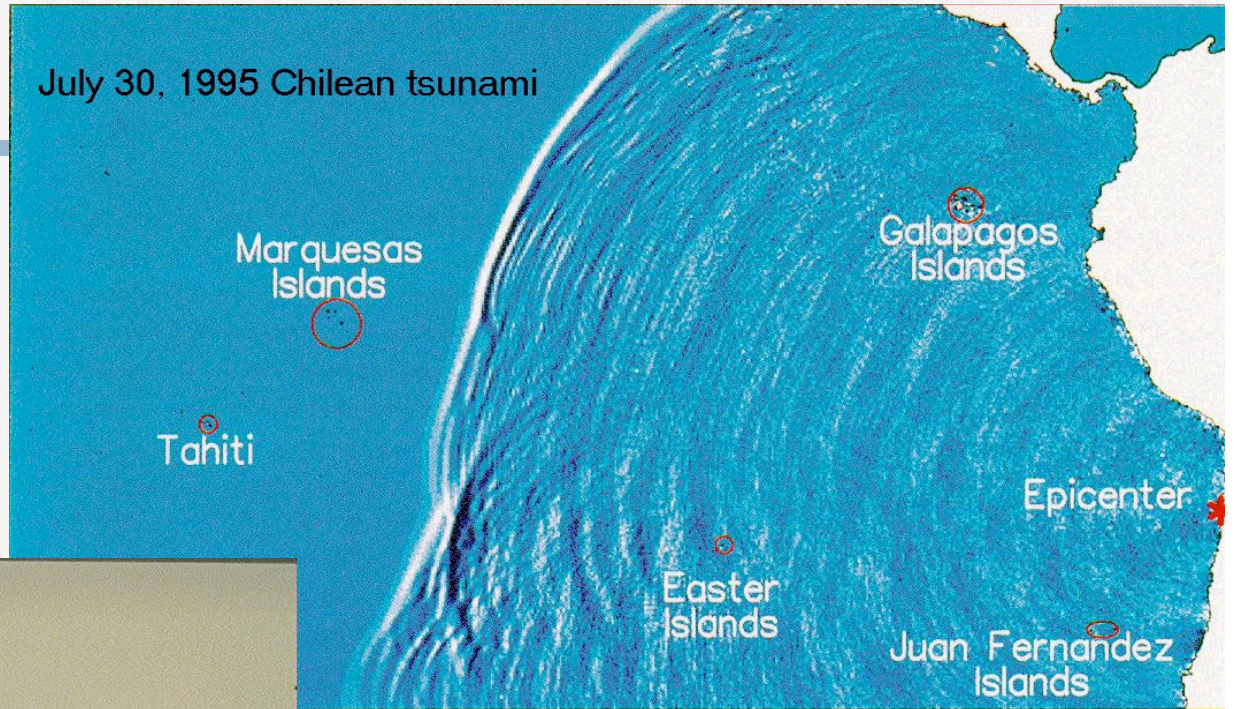
Katrina--2005, New Orleans



Tsunamis-Harbor Wave



Chilean Earthquake-1995



Japan-2003

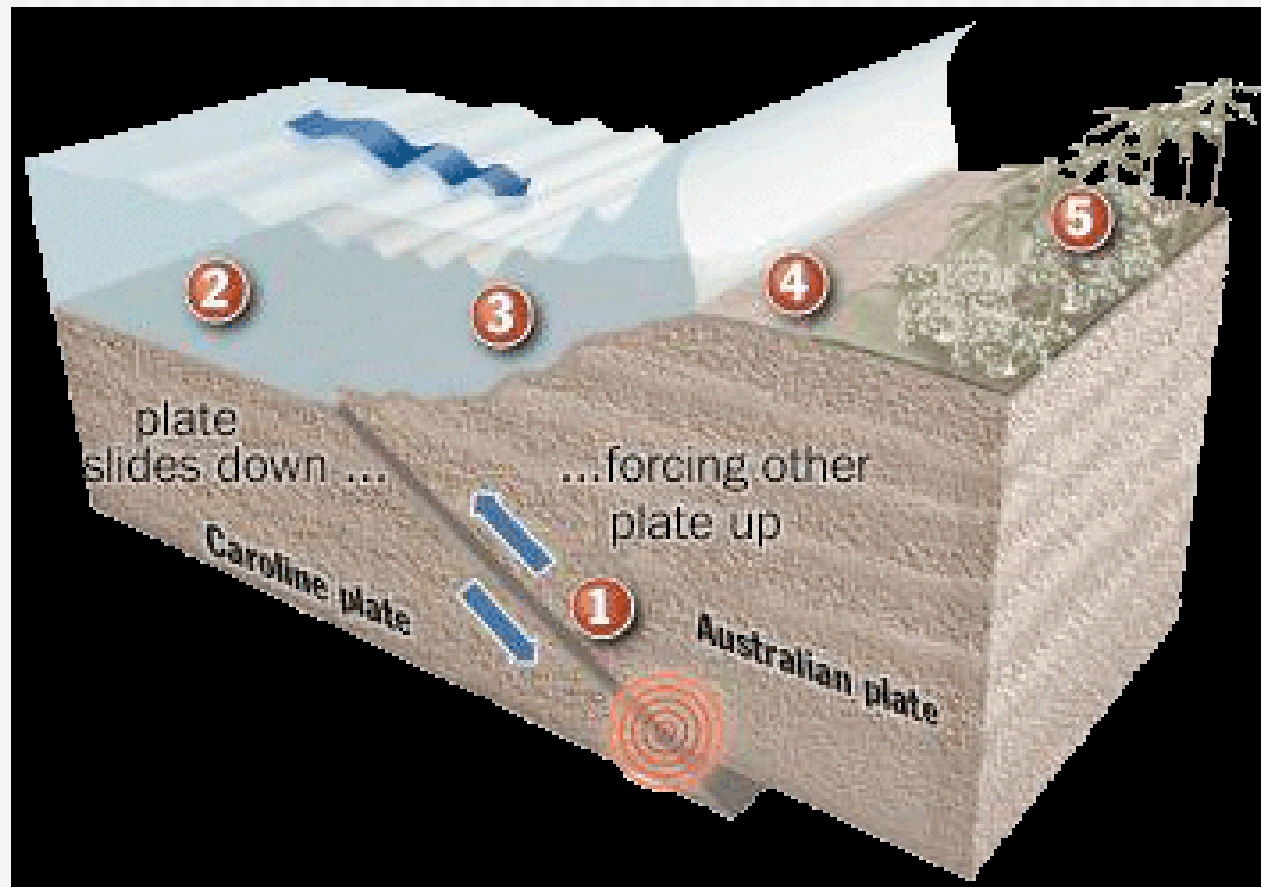


Sri Lanka--2004



Before and After Kalutara, Sri Lanka,
Courtesy DigitalGlobe.com

Causes??

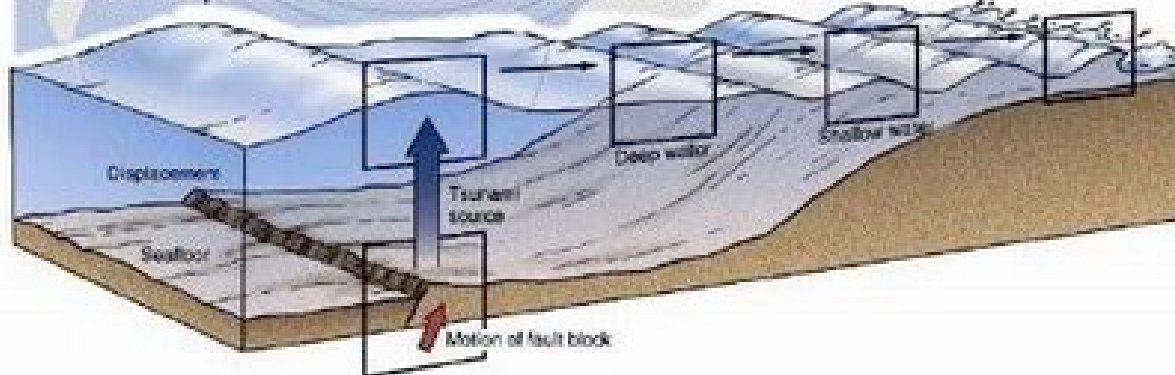


Sumatra--12/26/2004

■ 9.0 Earthquake in Indian Ocean



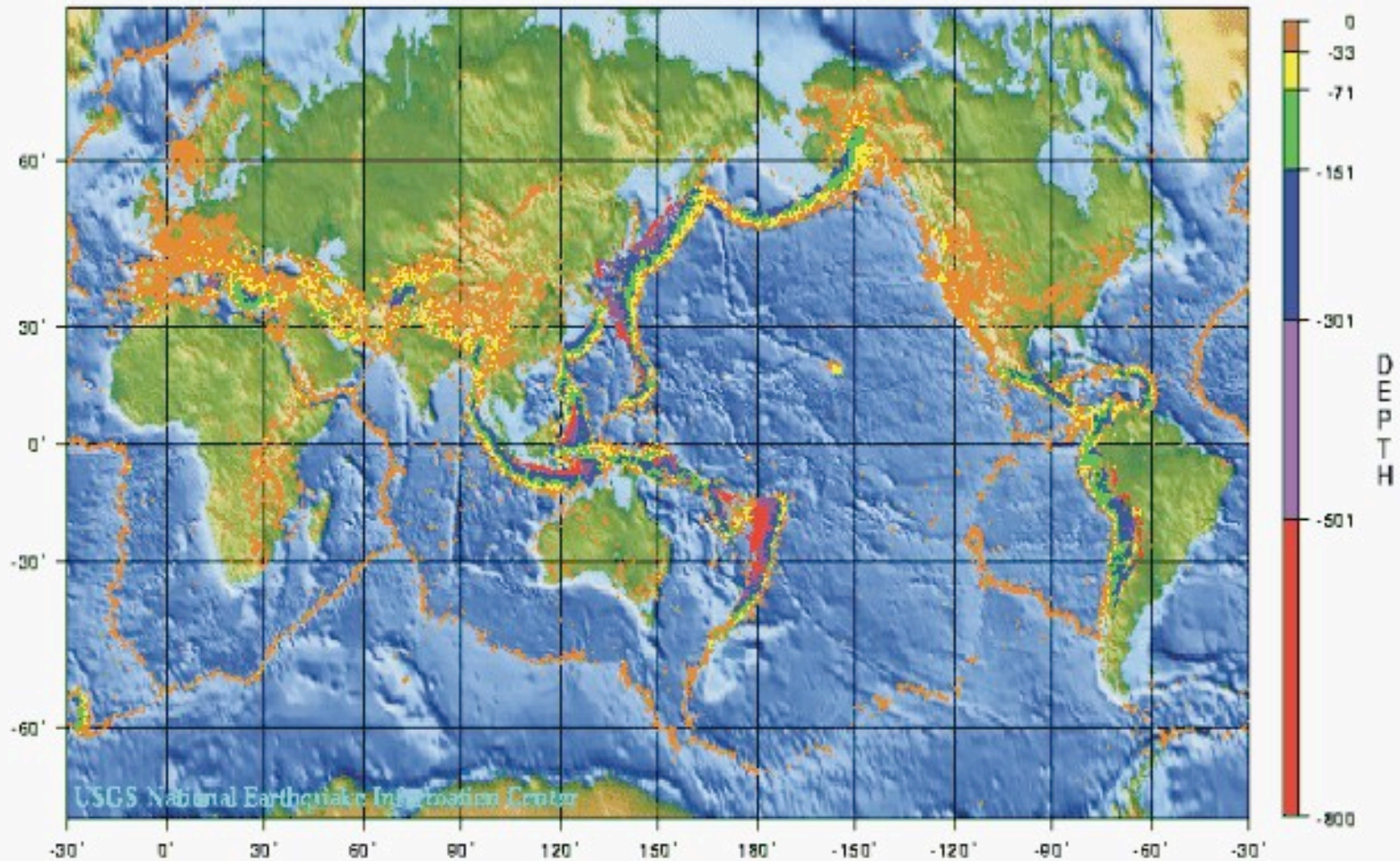
The earthquake off of Sumatra shifted the seafloor vertically approximately 32 feet. This displaced a large volume of water, which generated a massive tsunami, or sea surge. The wave spread out across the Indian Ocean at enormous speed.



Other Potential Areas

<http://earthquake.usgs.gov/neis/general/seismicity/world.html>

World Seismicity: 1975 - 1995



Other Causes...

- Meteorites



Other Causes..

- UFO's???

