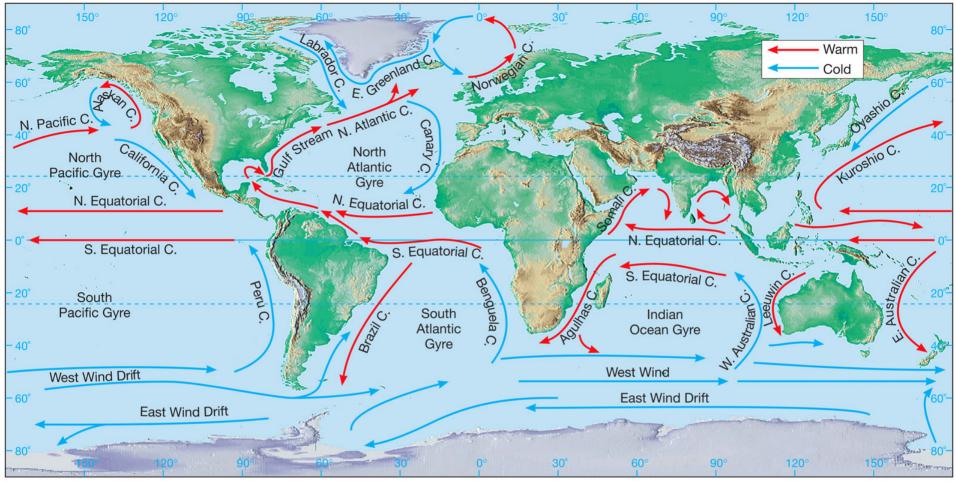
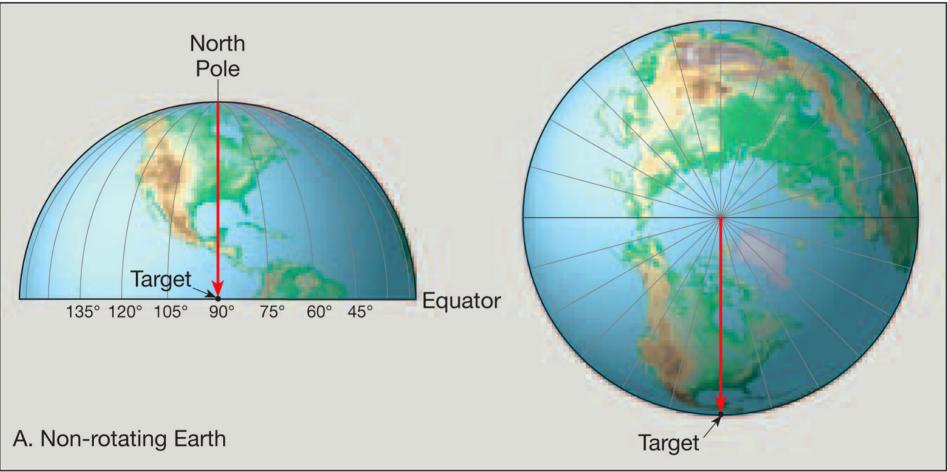
### Dynamic Ocean

Circulation Coastal Processes

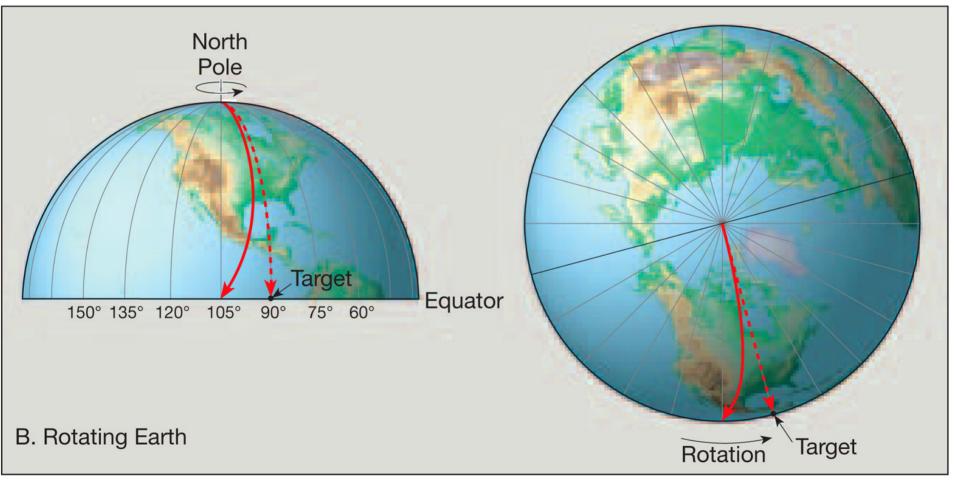




## No Coriolis Effect



## **Coriolis Effect**

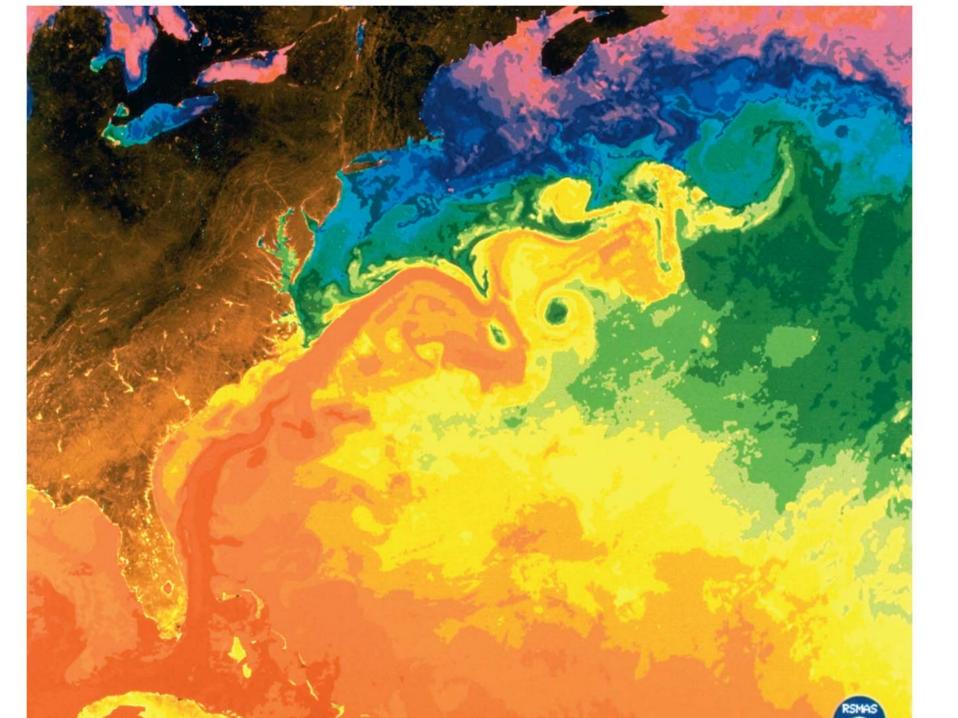


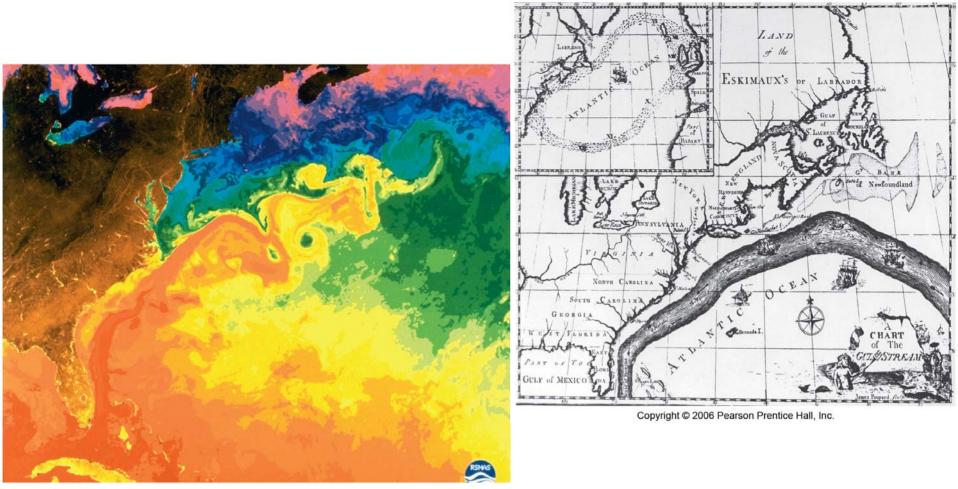




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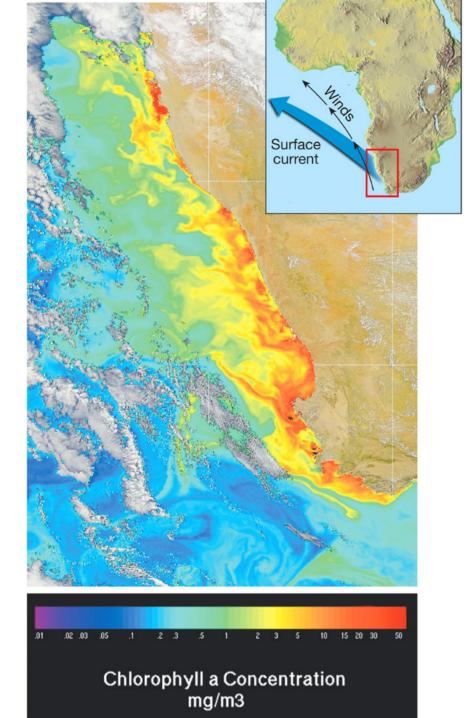


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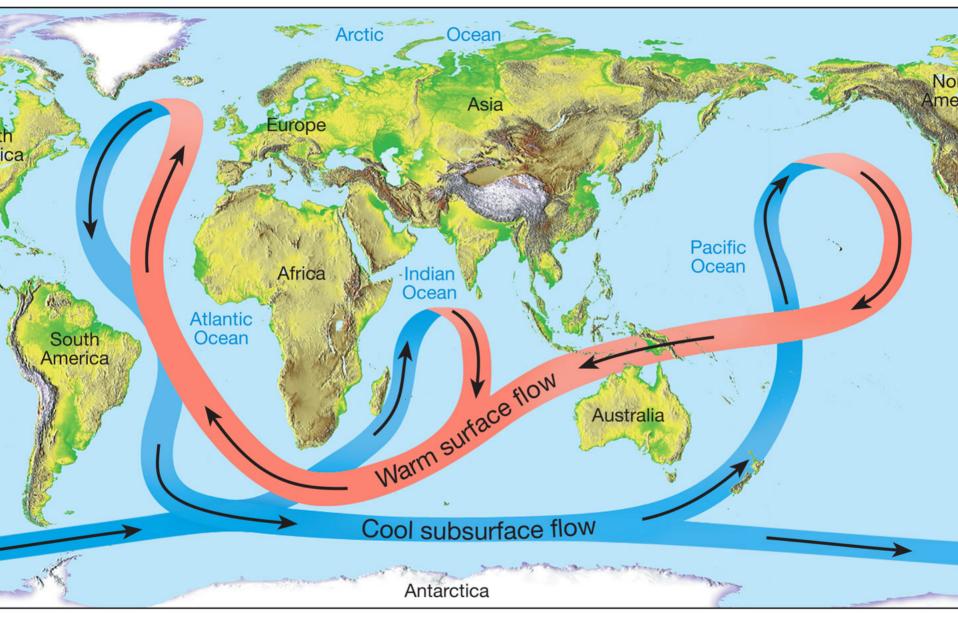
# Currents to remember:

- Gulf Stream
  - Warmnorthward flow along west side of N. Atlantic
- Kuroshio
  - Warm northward flow along west side of N. Pacific
- California
  - Cool southward flow along east side of N .Pacific
- West Wind Drift
  - West to east "around the world" flow in southern hemisphere
- Equatorial currents
  - East to west flow that run into land masses at west side of ocean basins



### Coastal Upwelling shown by chlorophyll content of water

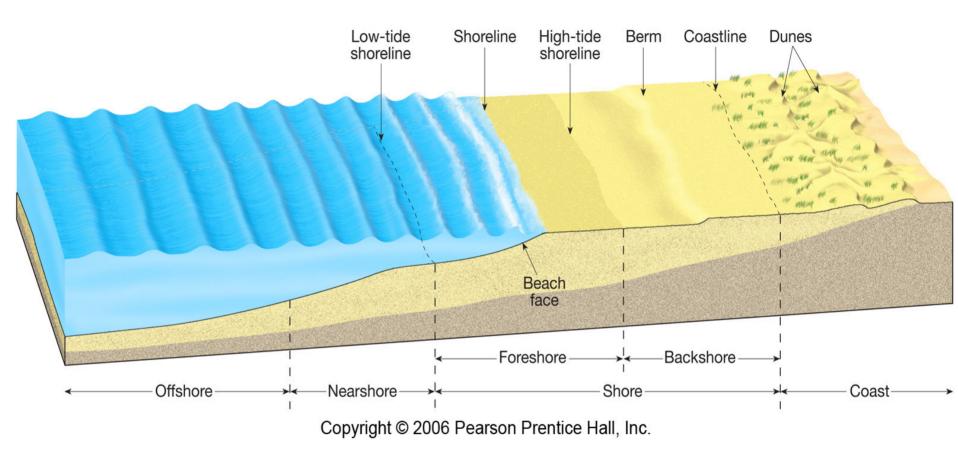


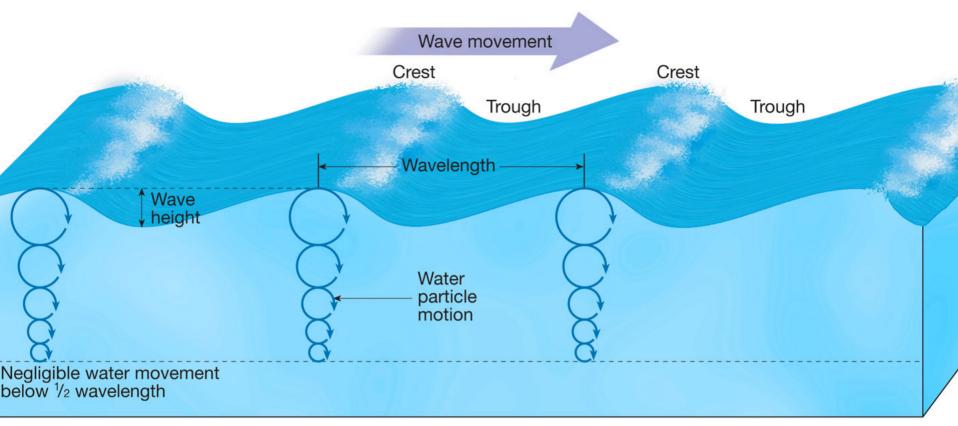


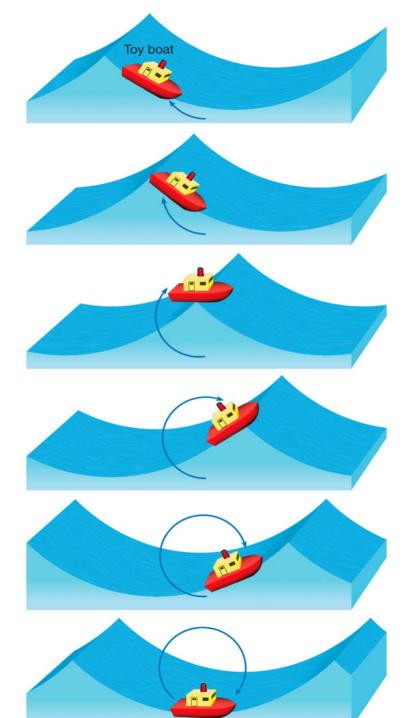




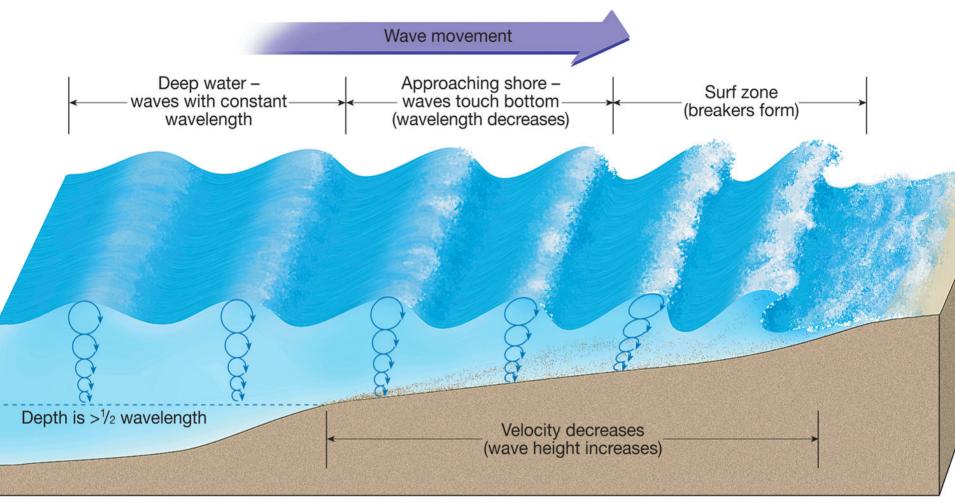
http://pinker.wjh.harvard.edu/photos/new\_zealand/pages/Foxton%20Beach.htm

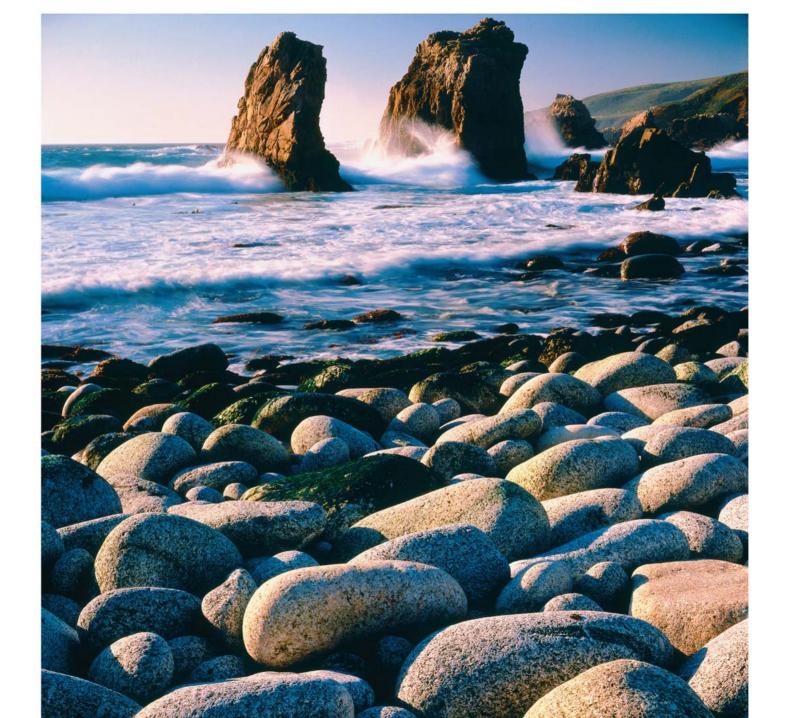


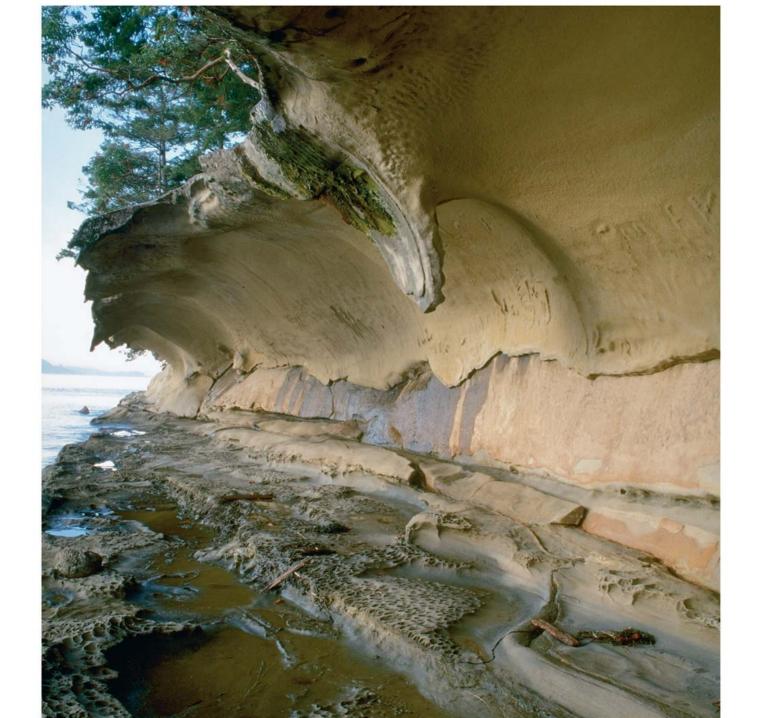




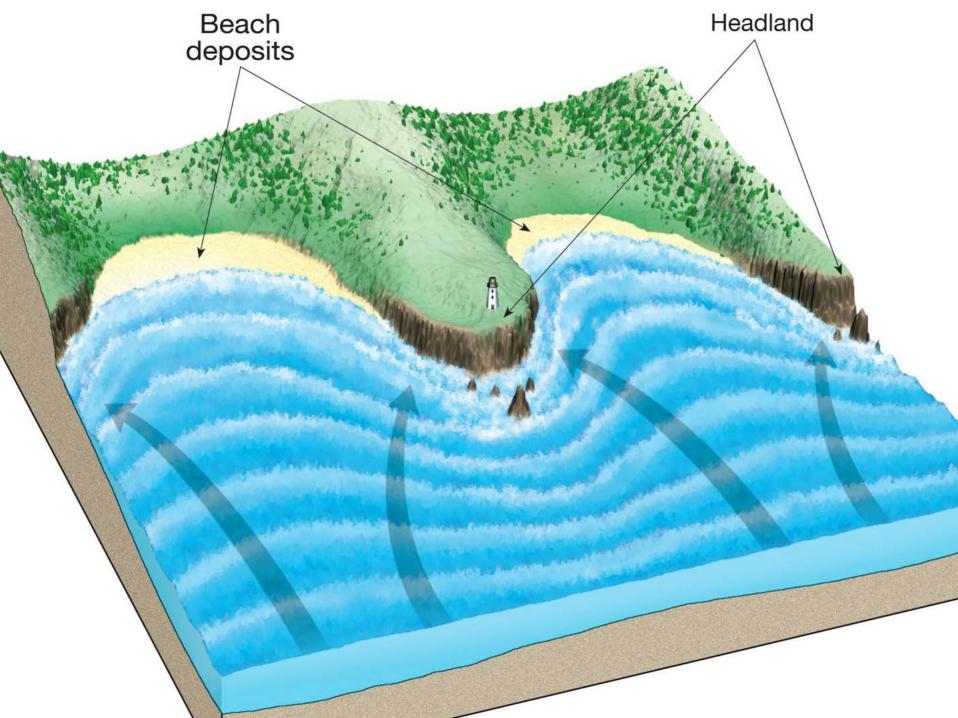
# Orbital movement of toy boat

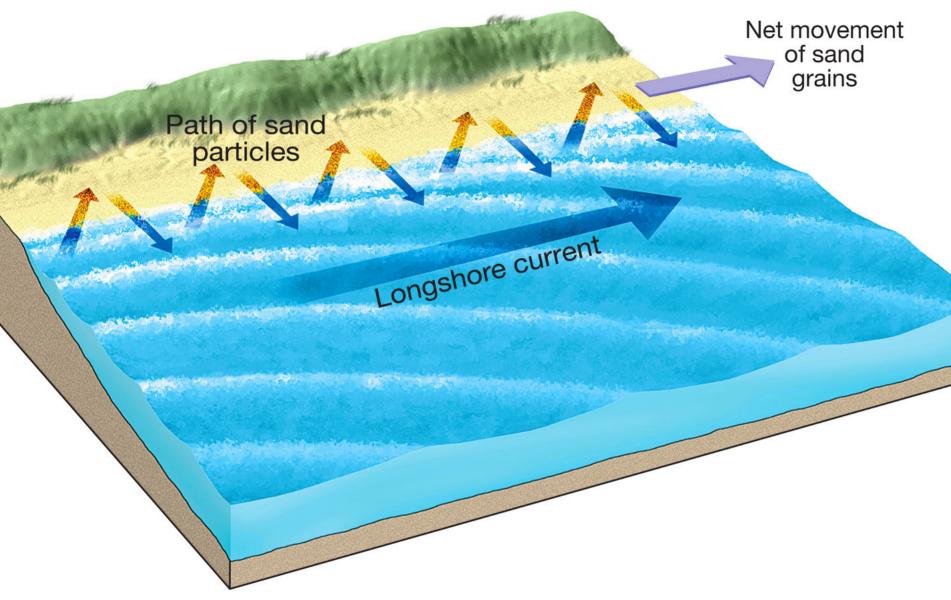
















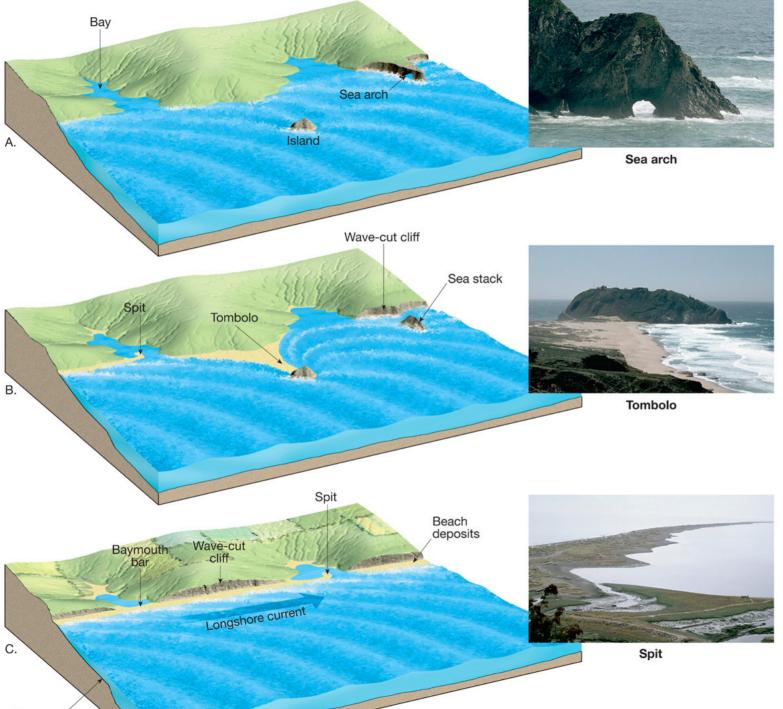


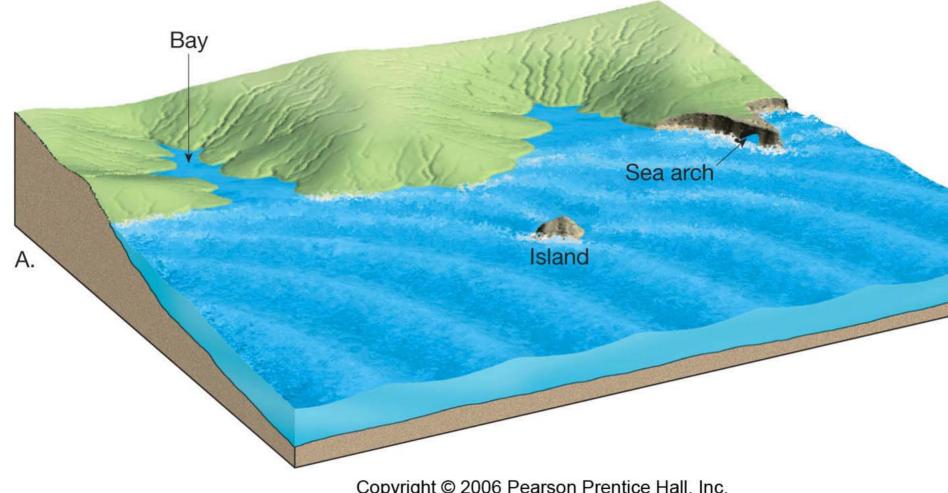






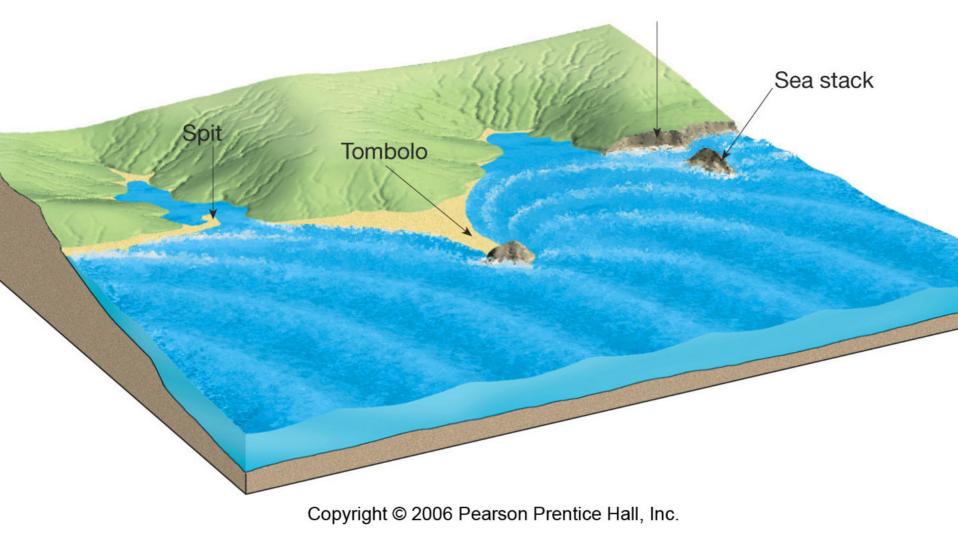
- . . . . . . . . .





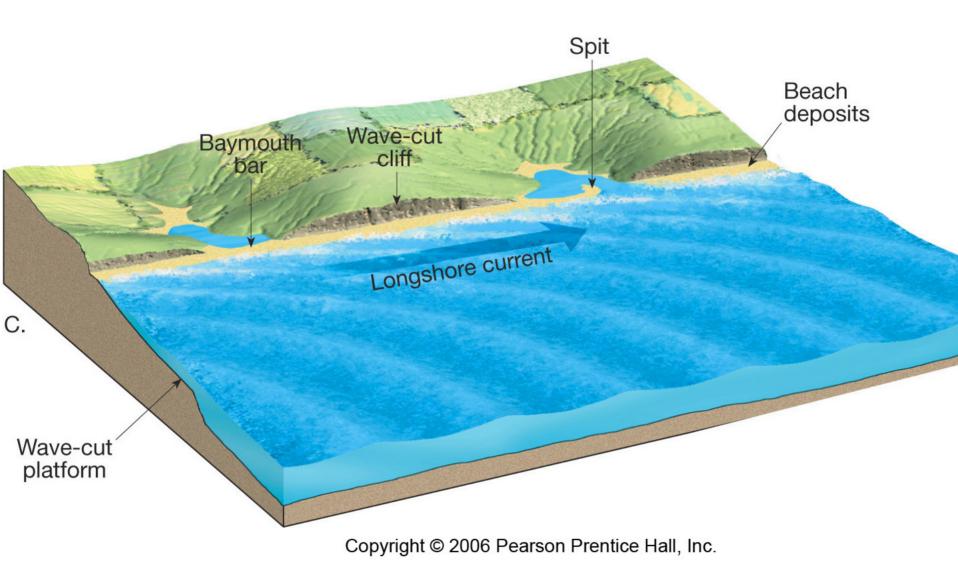








#### Tombolo

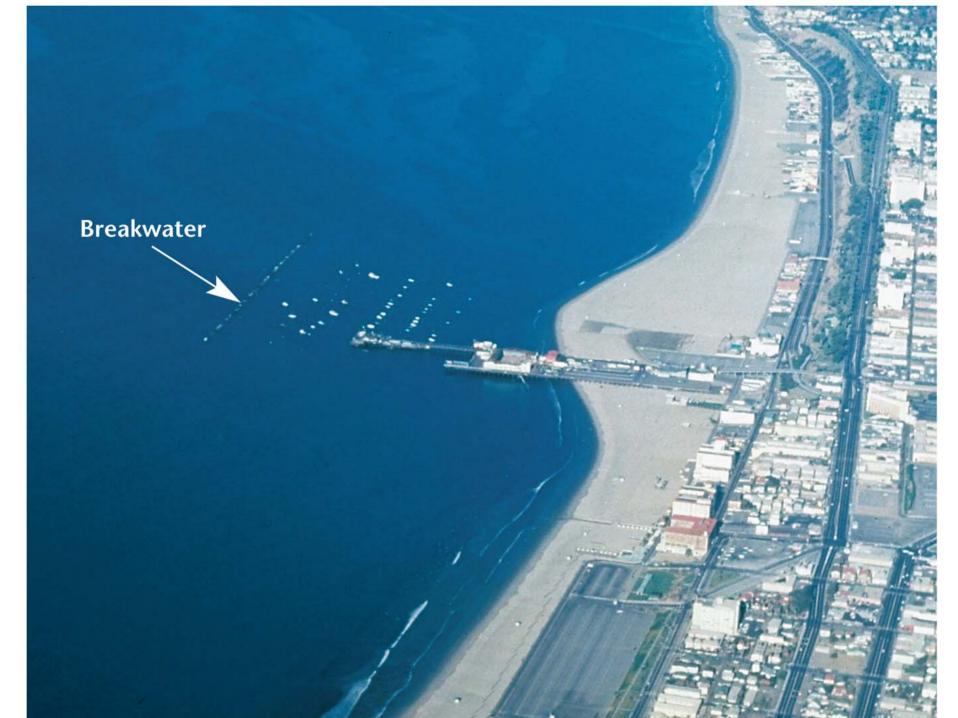




#### Spit









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