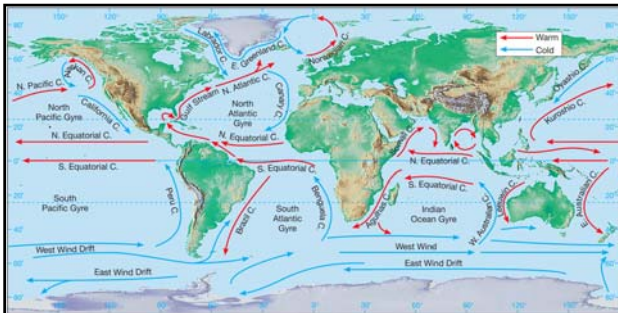


# Dynamic Ocean

Circulation  
Coastal Processes

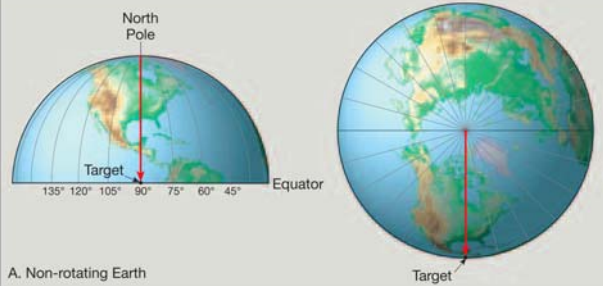


Copyright © 2006 Pearson Prentice Hall, Inc.



Copyright © 2006 Pearson Prentice Hall, Inc.

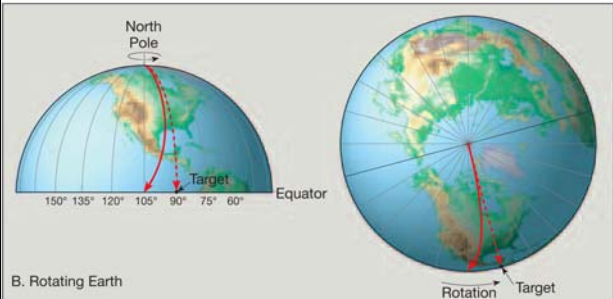
## No Coriolis Effect



A. Non-rotating Earth

Copyright © 2006 Pearson Prentice Hall, Inc.

## Coriolis Effect

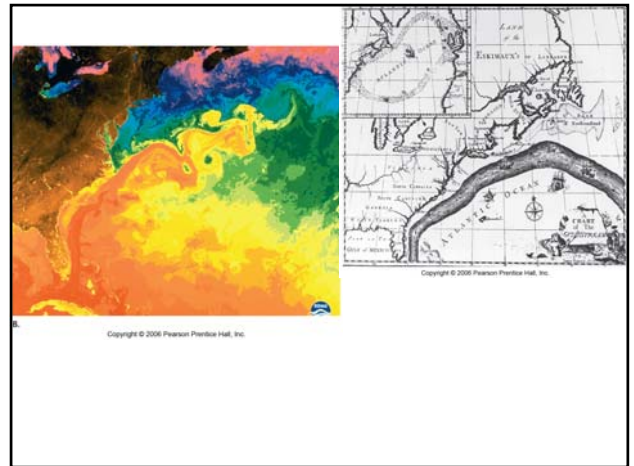
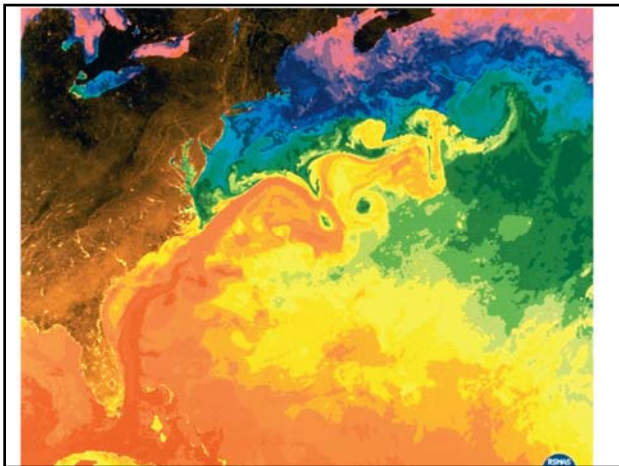


B. Rotating Earth

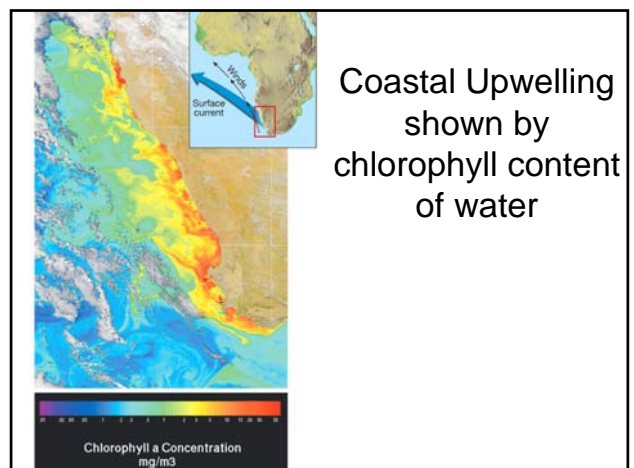
Copyright © 2006 Pearson Prentice Hall, Inc.



Copyright © 2006 Pearson Prentice Hall, Inc.

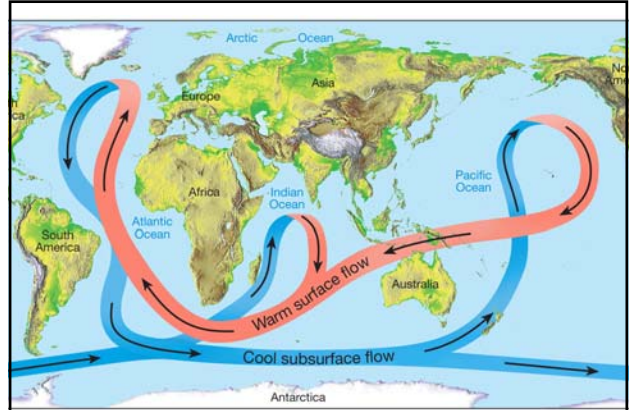


- Currents to remember:**
- Gulf Stream
    - Warm northward flow along west side of N. Atlantic
  - Kuroshio
    - Warm northward flow along west side of N. Pacific
  - California
    - Cool southward flow along east side of N. Pacific
  - West Wind Drift
    - West to east “around the world” flow in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





Copyright © 2006 Pearson Prentice Hall, Inc.



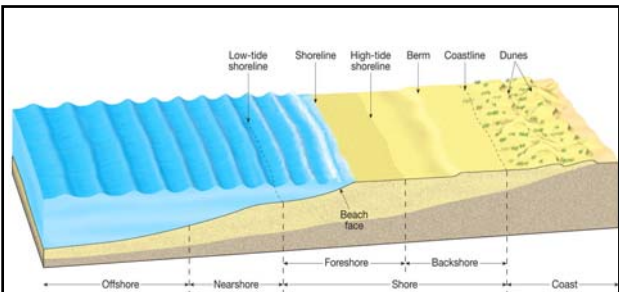
Copyright © 2006 Pearson Prentice Hall, Inc.



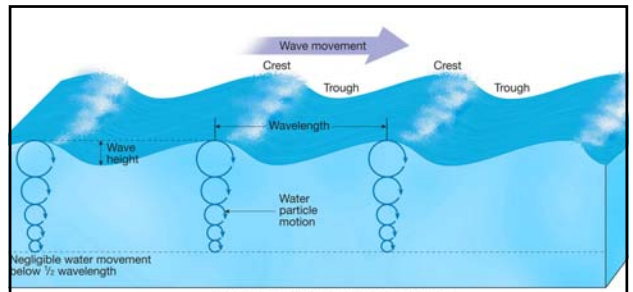
Copyright © 2006 Pearson Prentice Hall, Inc.



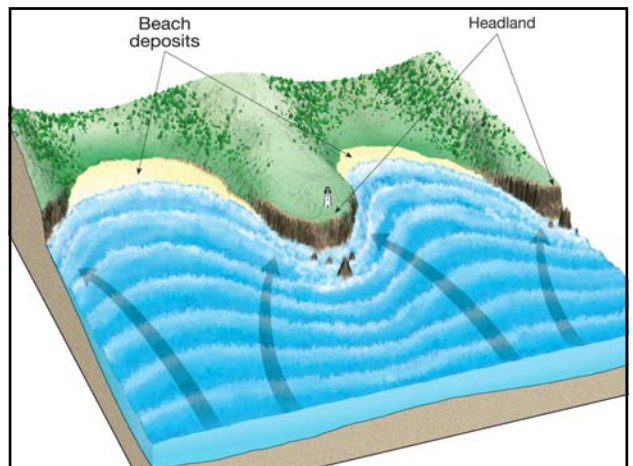
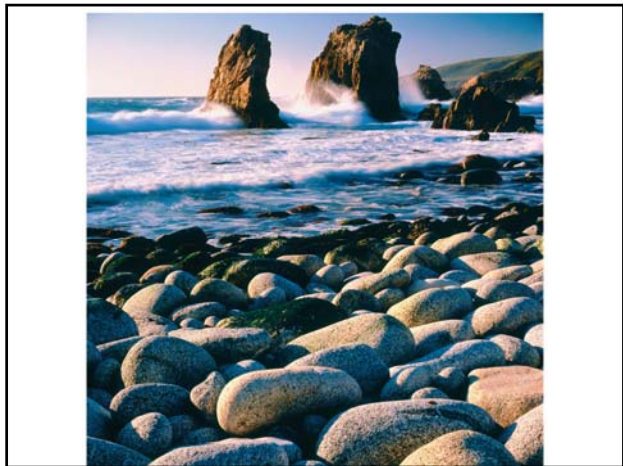
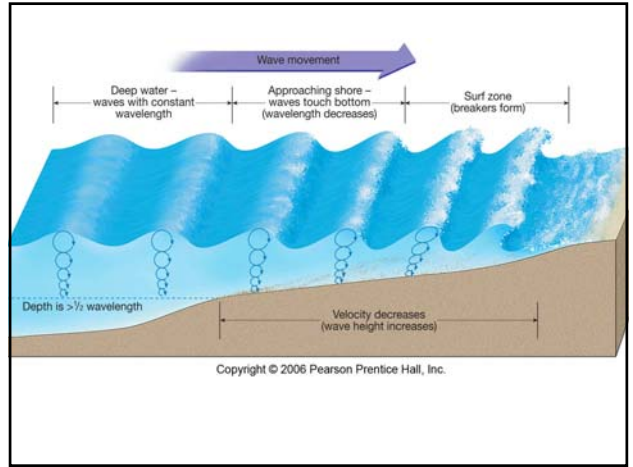
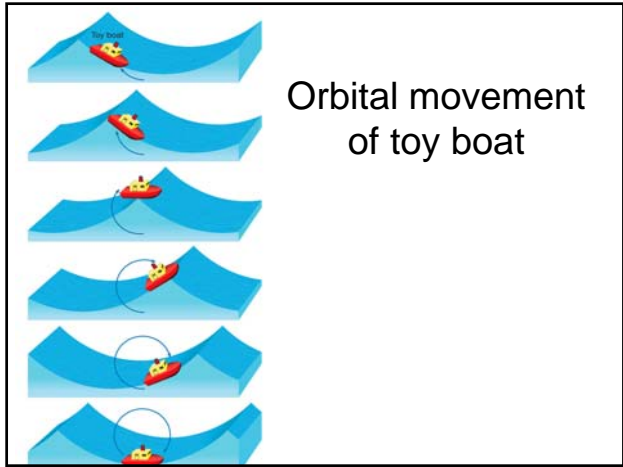
[http://pinker.wjh.harvard.edu/photos/new\\_zealand/pages/Foxton%20Beach.htm](http://pinker.wjh.harvard.edu/photos/new_zealand/pages/Foxton%20Beach.htm)

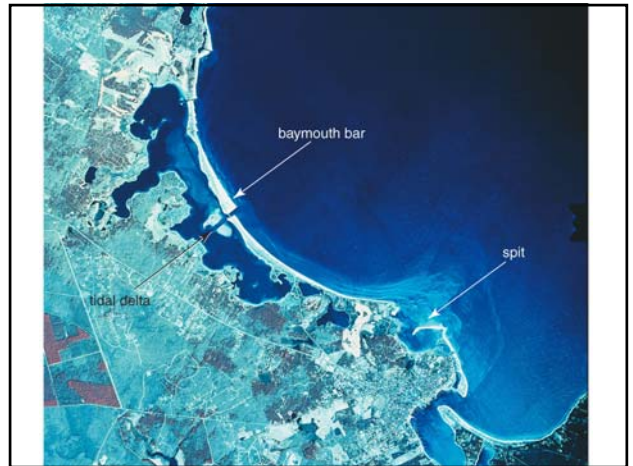
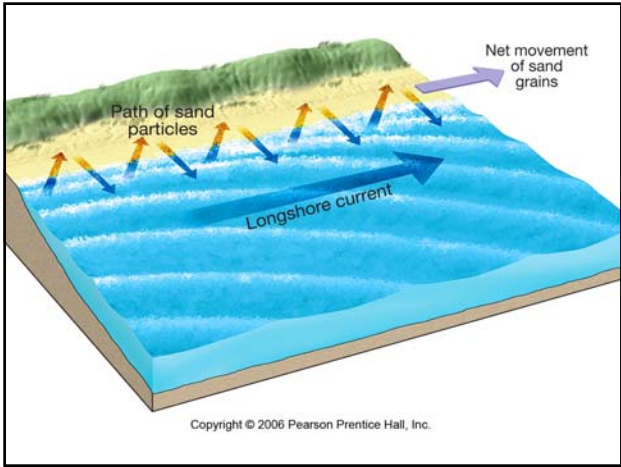


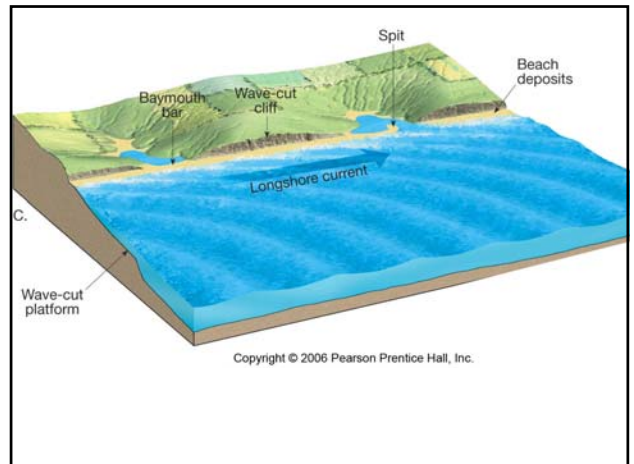
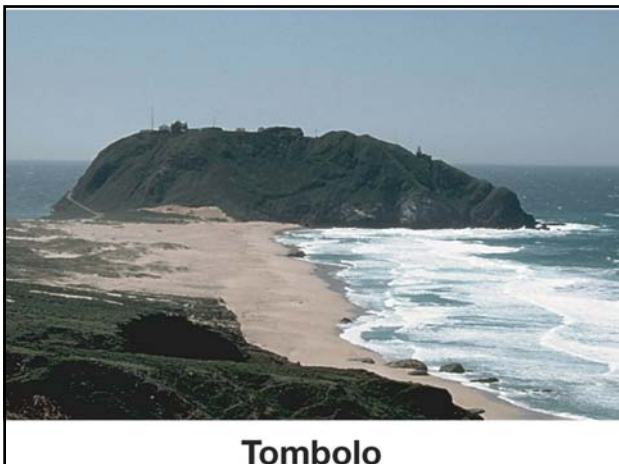
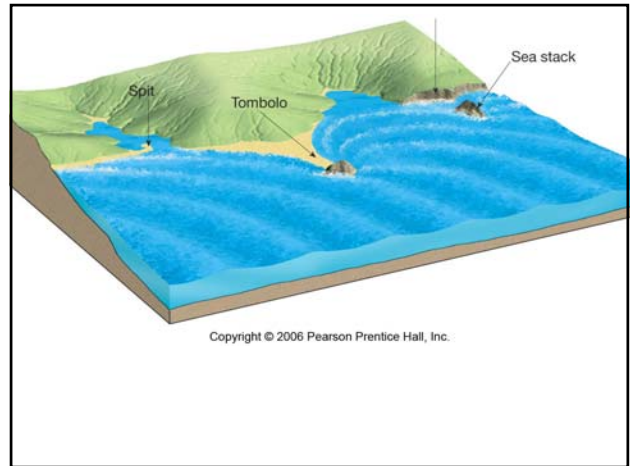
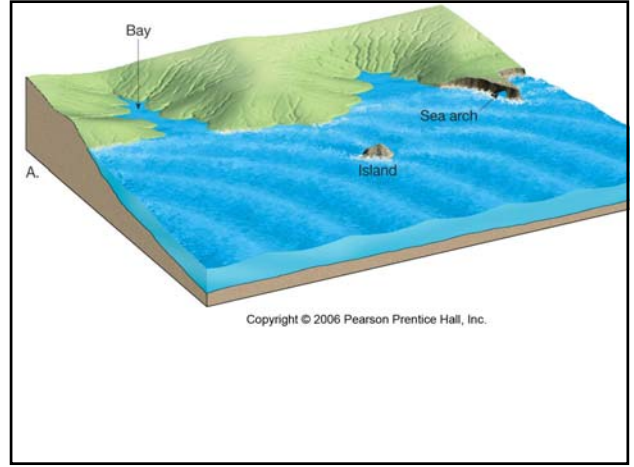
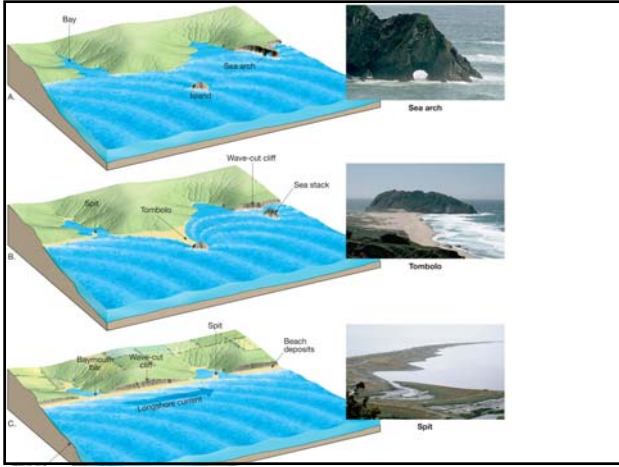
Copyright © 2006 Pearson Prentice Hall, Inc.



Copyright © 2006 Pearson Prentice Hall, Inc.









**Spit**



Copyright © 2006 Pearson Prentice Hall, Inc.





B.  
Copyright © 2006 Pearson Prentice Hall, Inc.

