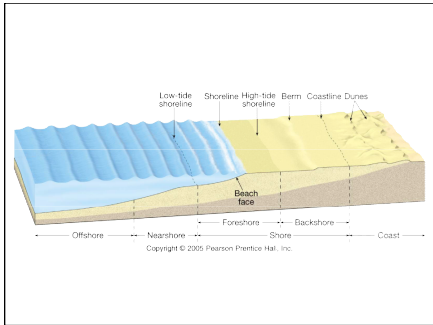
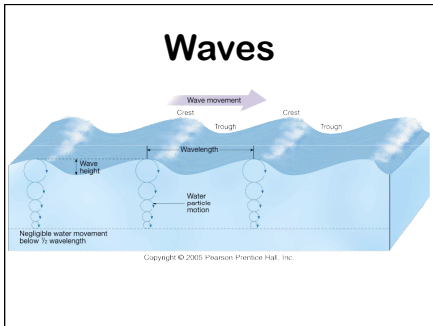




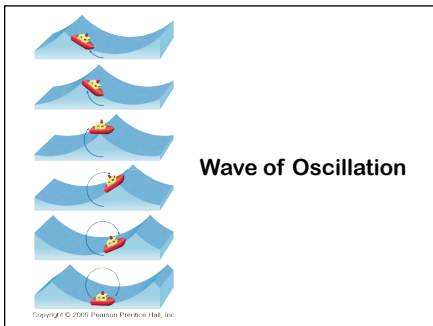
1



2

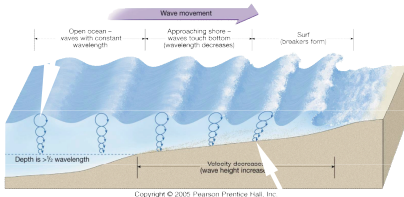


3



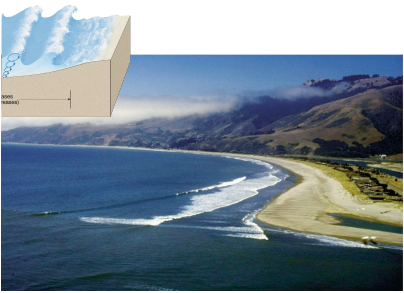
4

Wave of Oscillation



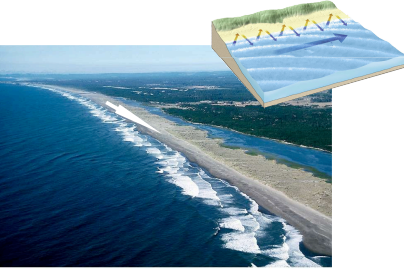
Wave of Translation

5



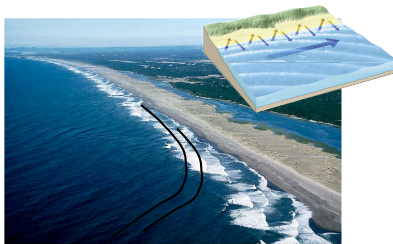
6

Sand Movement on the Beach

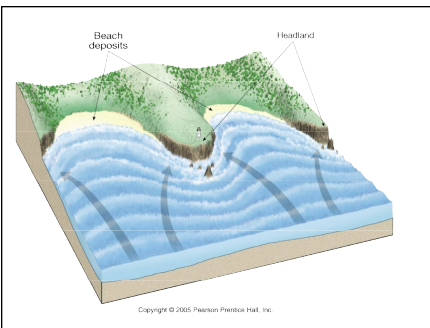


7

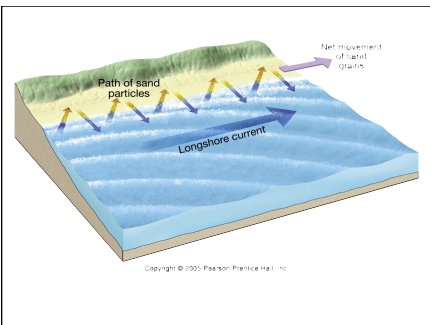
Refraction



8



9



10

Shoreline Features

11

Erosional Features

12



Wave-cut cliff

Copyright © 2005 Pearson Prentice Hall, Inc.

13

Wave-cut Platform



Copyright © 2005 Pearson Prentice Hall, Inc.

14

Sea Arch



Copyright © 2005 Pearson Prentice Hall, Inc.

15

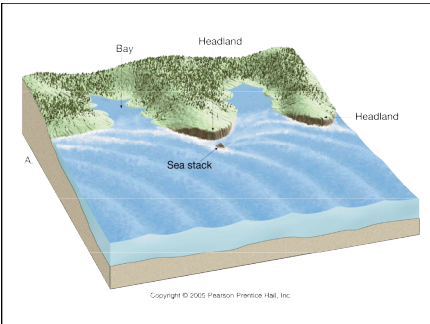
Sea Arch



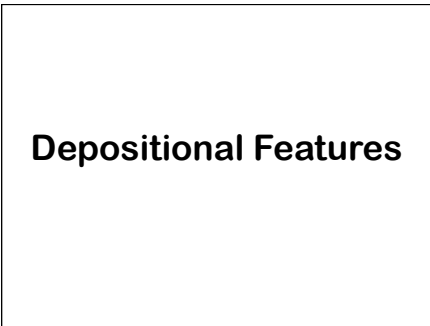
16



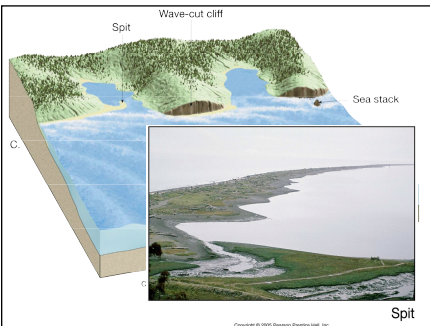
17



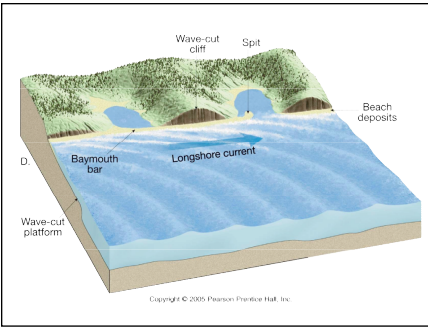
18



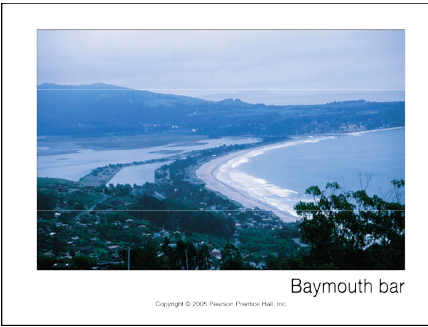
19



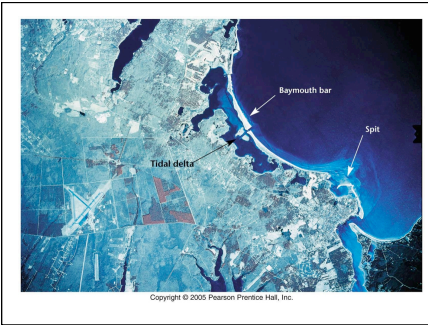
20



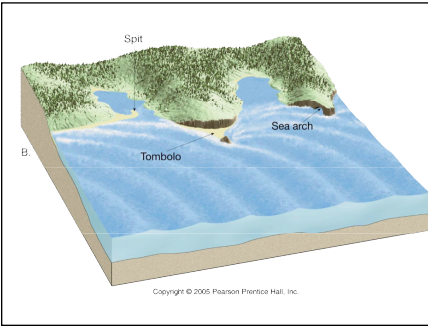
21



22



23



24



Tombolo

Copyright © 2005 Pearson Prentice Hall, Inc.

25

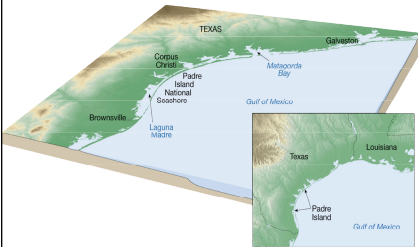
Barrier Islands



Copyright © 2005 Pearson Prentice Hall, Inc.

26

Texas Gulf Coast



27

Shoreline Erosion

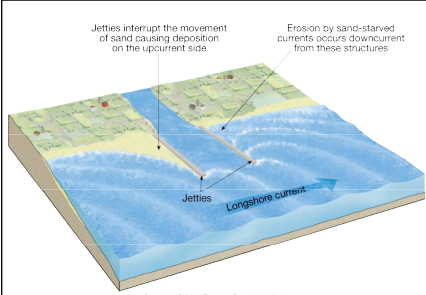


28

Stabilizing the Shore



29

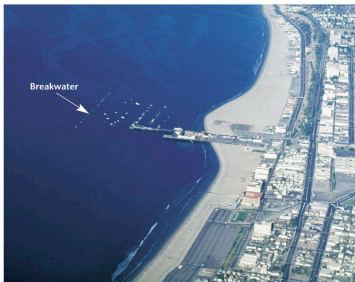


30

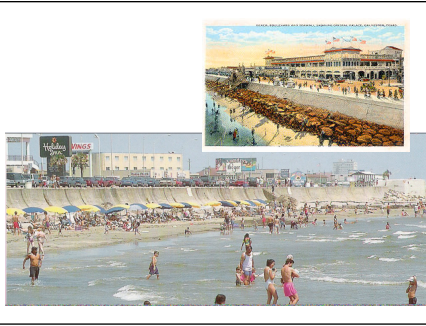


Copyright © 2005 Pearson Prentice Hall, Inc.

31



32



33

- Three basic responses to erosion problems
 - Beach nourishment
 - The addition of large quantities of sand to the beach system
 - Only an economically viable long-range solution in a few areas
 - Abandonment and relocation of buildings away from the beach



34

Beach Nourishment



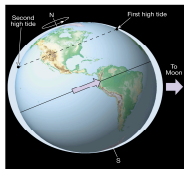
A. Copyright © 2005 Pearson Prentice Hall, Inc.

35

- Daily changes in the elevation of the ocean surface

- Causes of tides
 - Tidal bulges are caused by the gravitational forces of the Moon, and to a lesser extent the Sun

Tides



36
