

How Snow and Ice Accumulate in Glaciers

Snowflakes pressed together by weight of other snowflakes

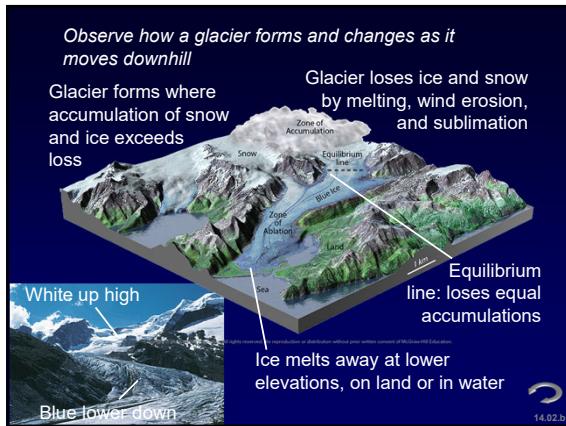
More snow adds weight and compresses flakes into small spheres

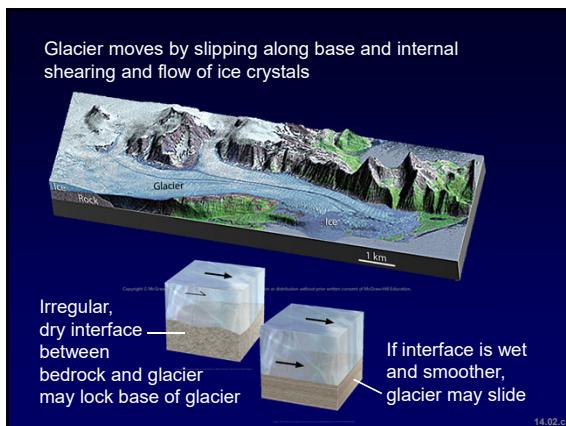
Increasing depth and pressure cause snow to become crystalline ice; commonly bluish from trapped air

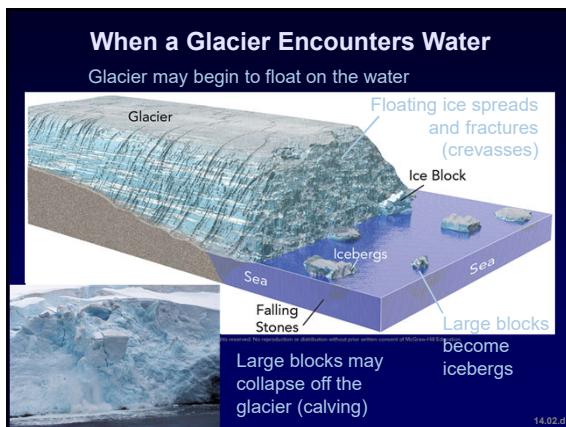


14.02.a2

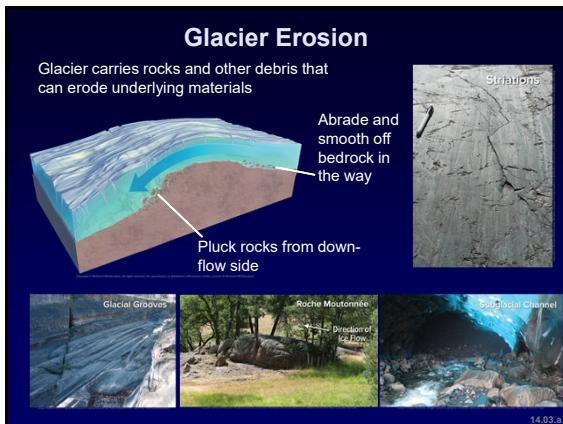


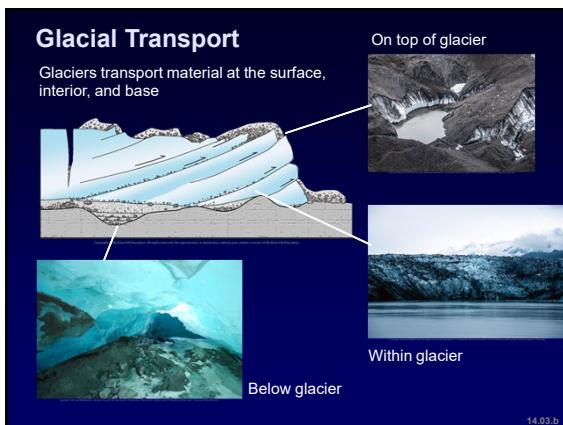


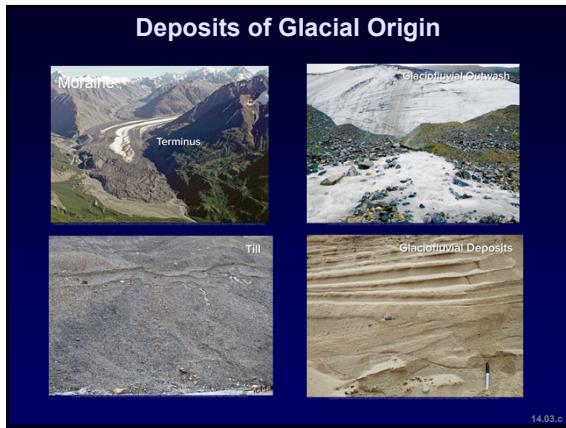


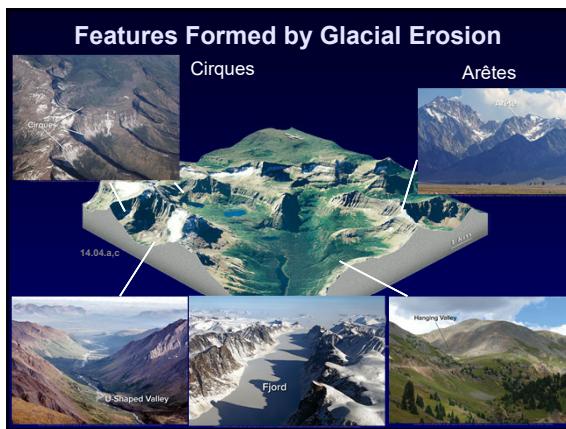




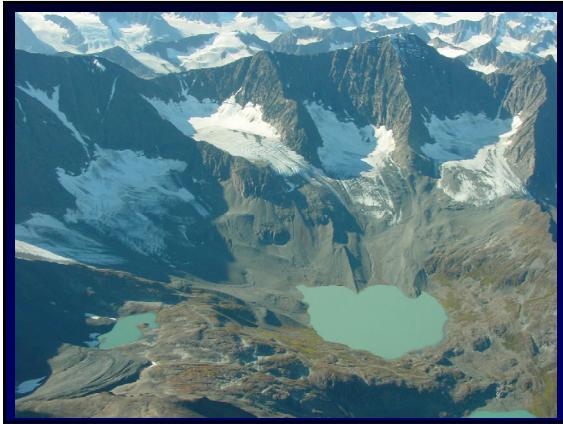












Features Formed by Glacial Deposition

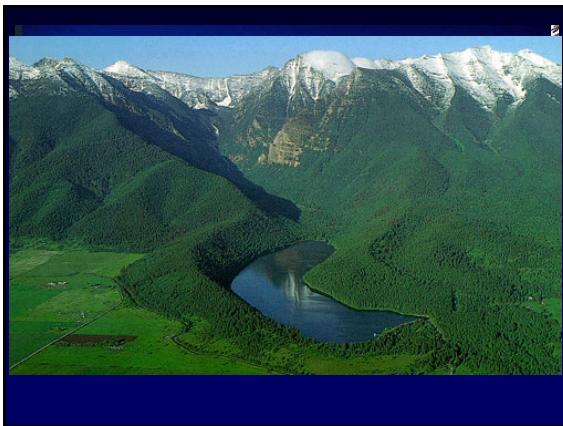
Moraines

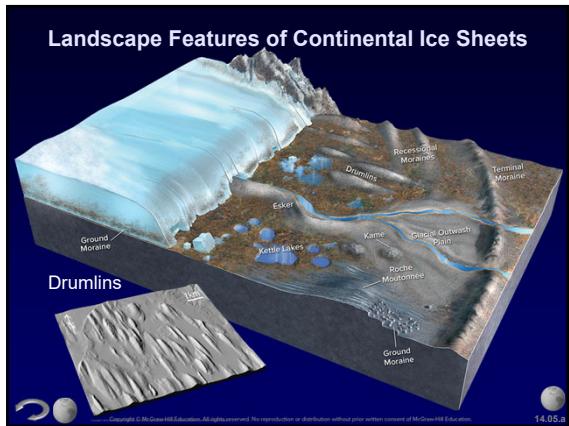
Glaciers carry rocks

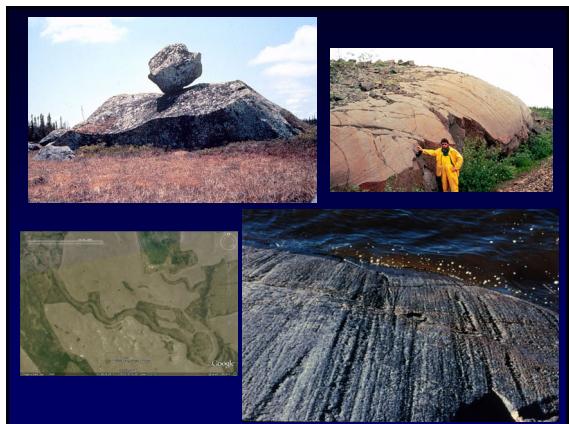
What do you observe?

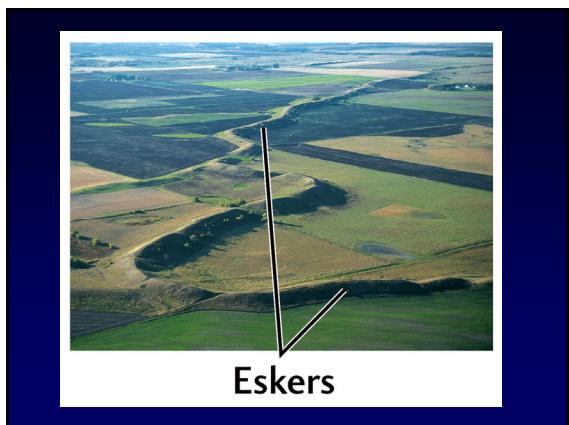
14.04.b

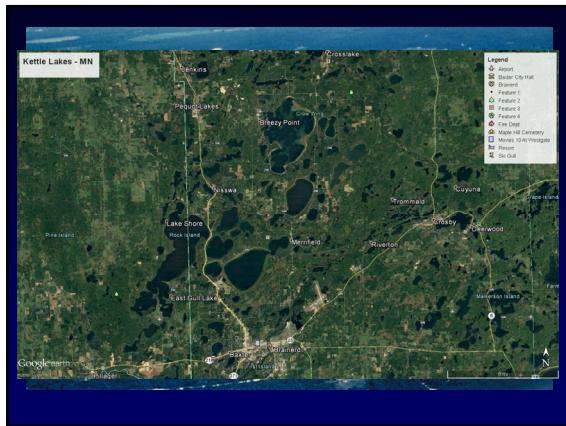
A composite image for learning about glacial deposition. On the left, a photograph shows a glacier with various types of moraines labeled: 'Medial Moraine', 'Lateral Moraine', and 'Terminal moraine'. On the right, a 3D-style diagram shows a cross-section of a glacier with arrows pointing to 'Lateral moraines' and 'Terminal moraine'. The text 'What do you observe?' is written above the diagram. The source is cited as '14.04.b'.



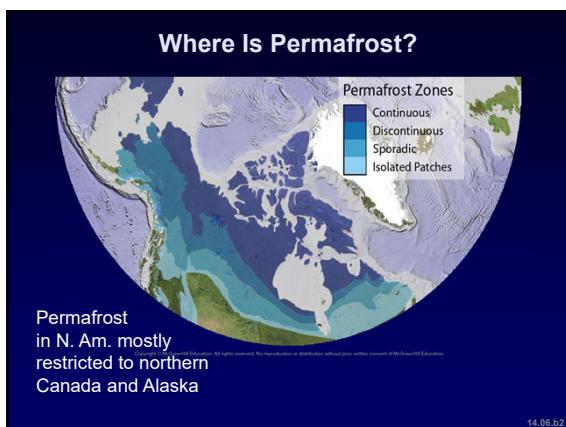




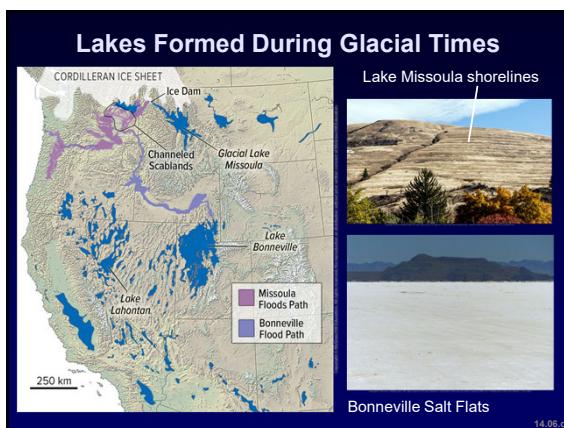


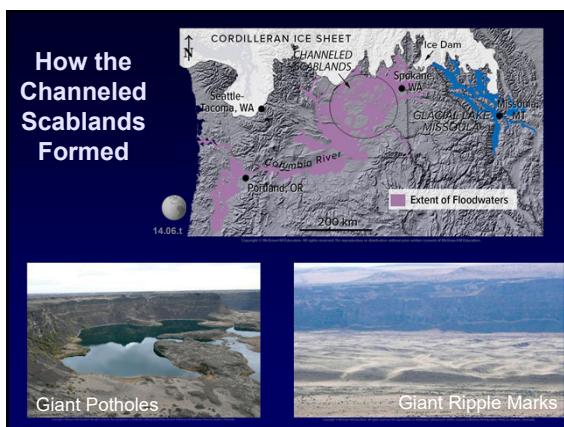


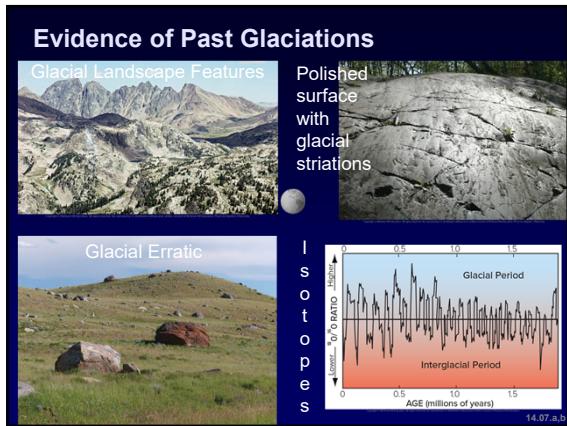


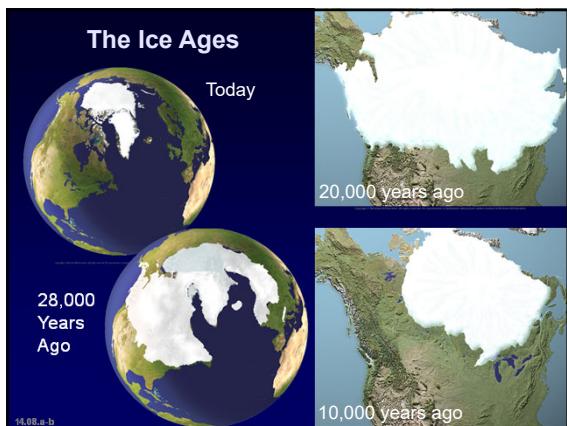


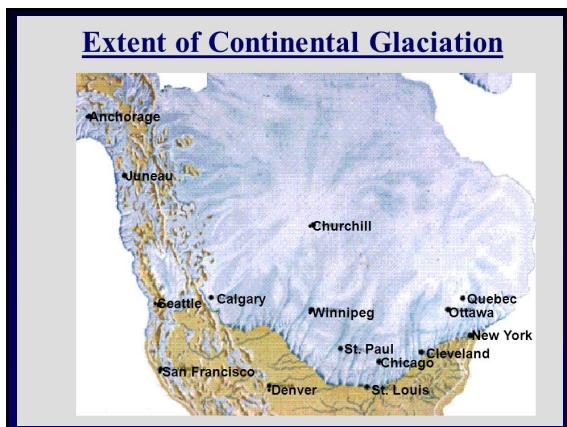


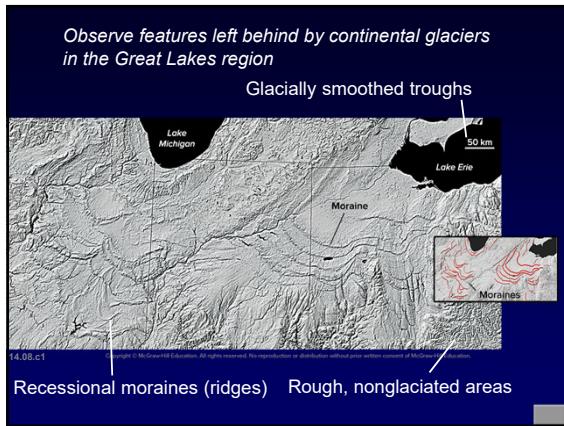


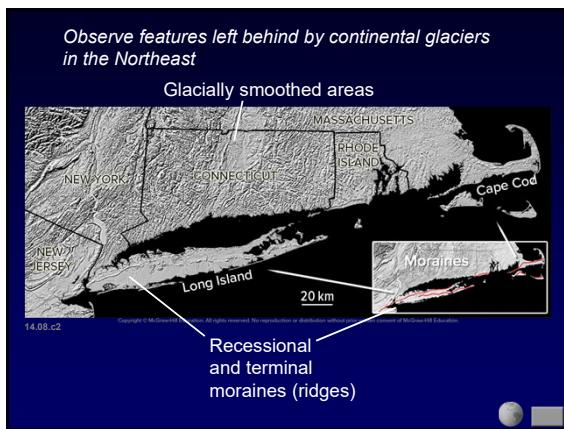


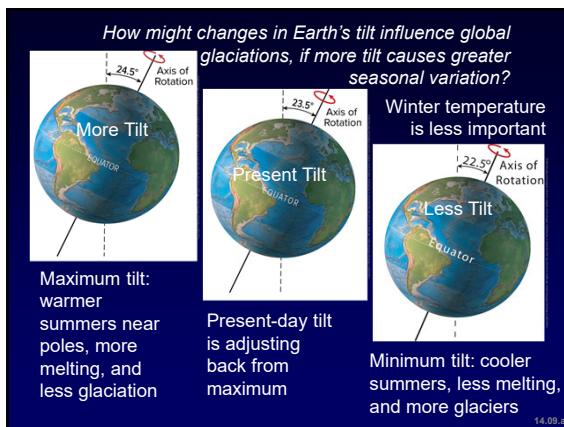


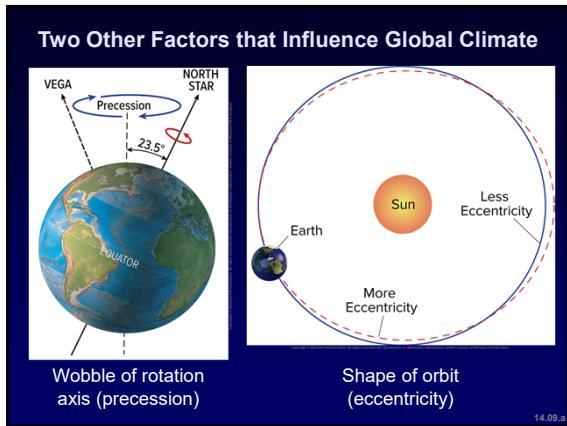


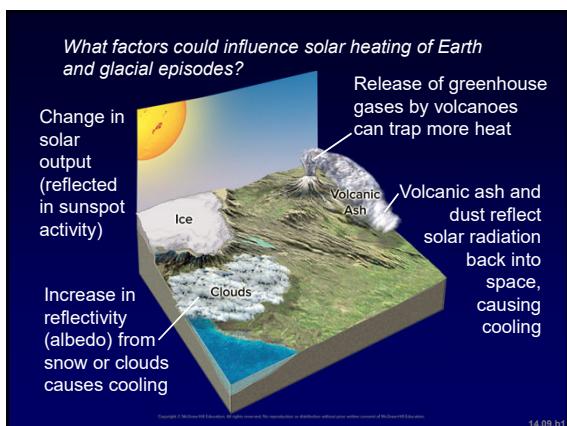


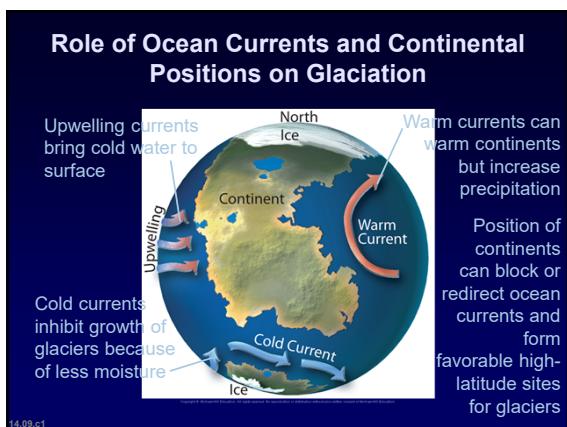




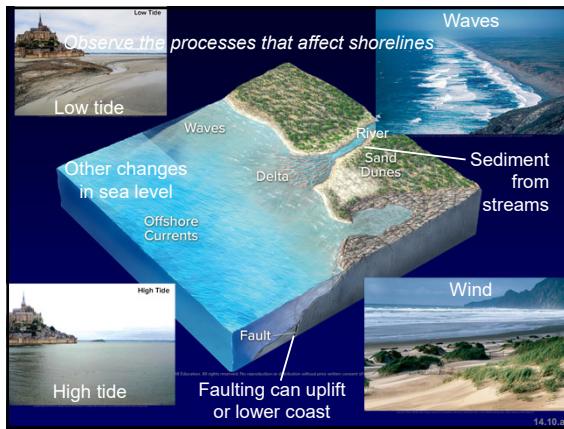


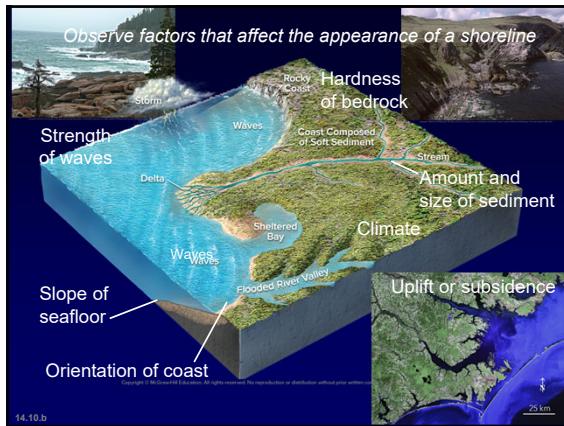




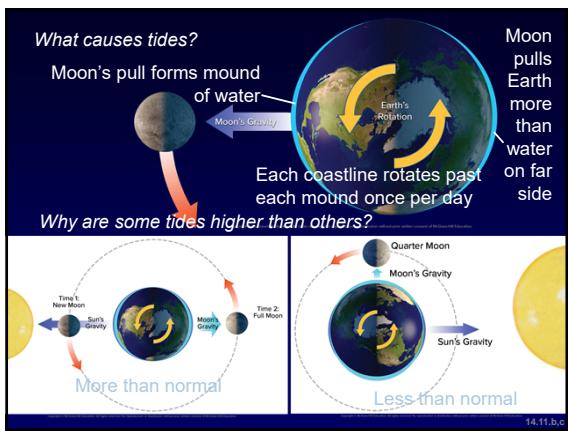


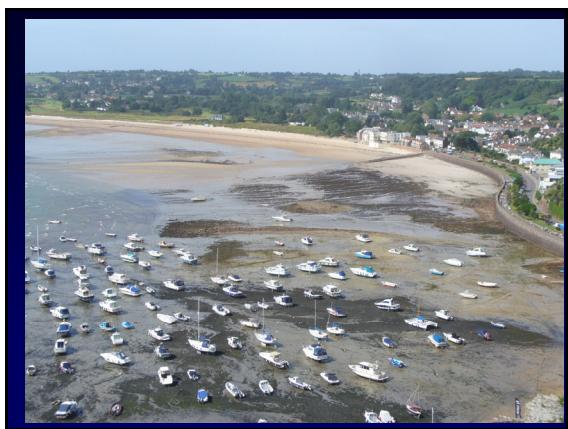


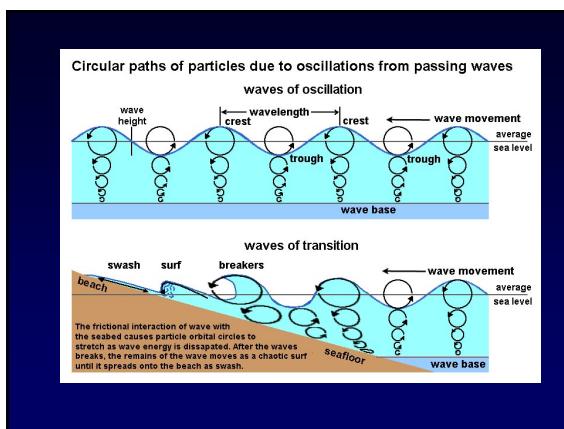
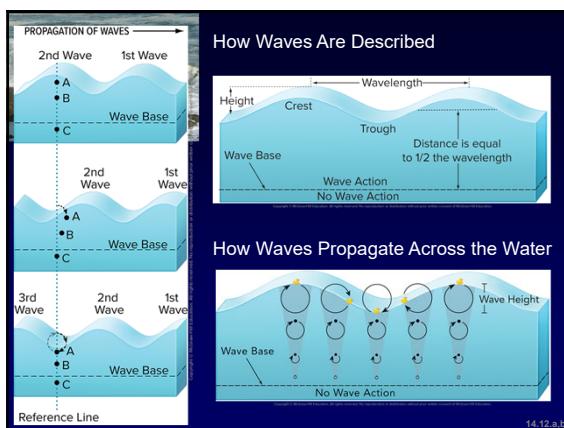
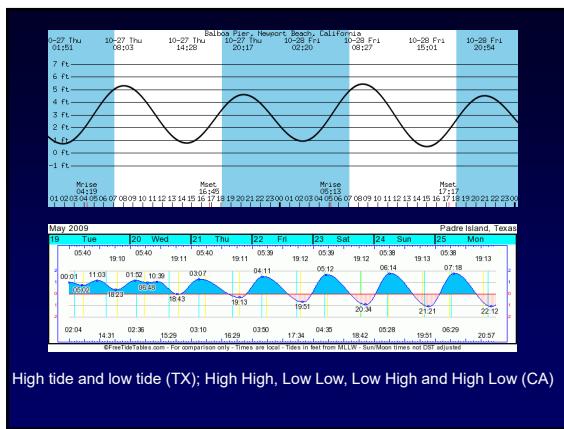


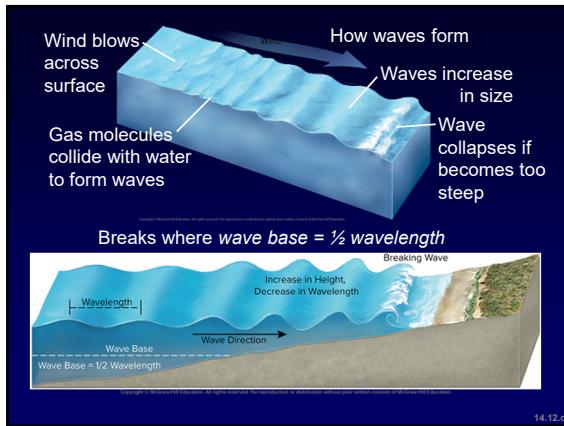




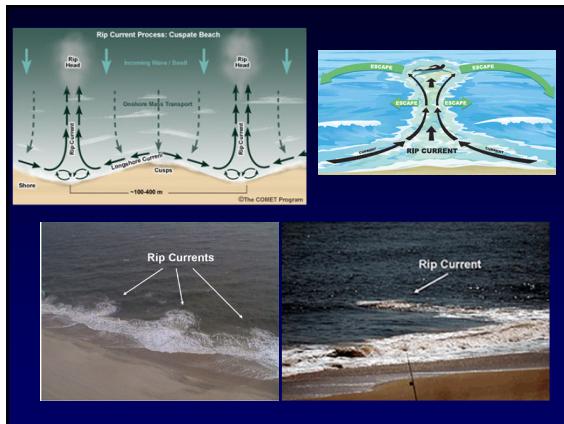


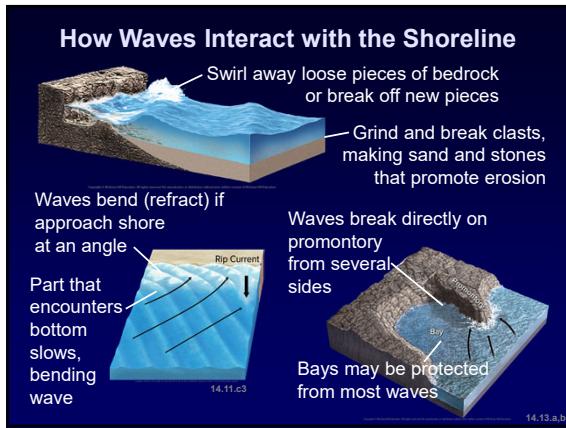


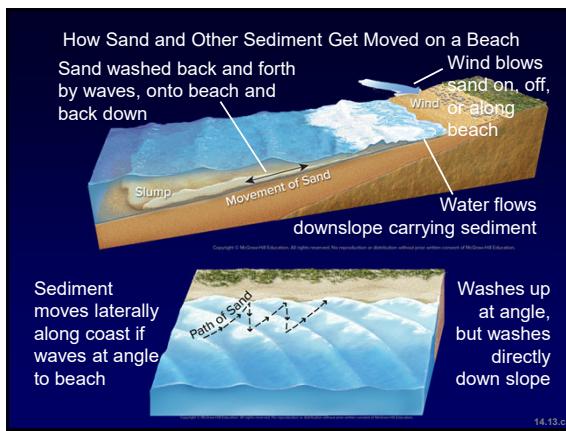


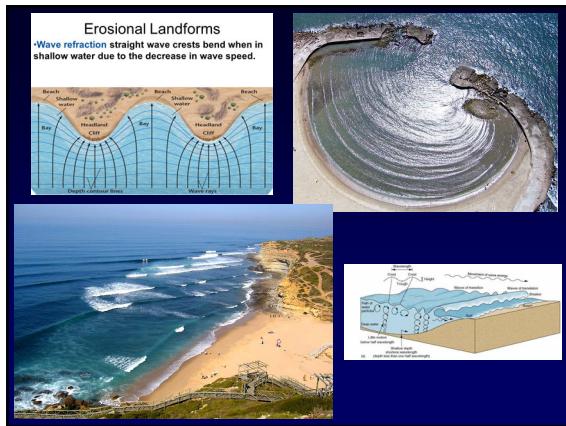


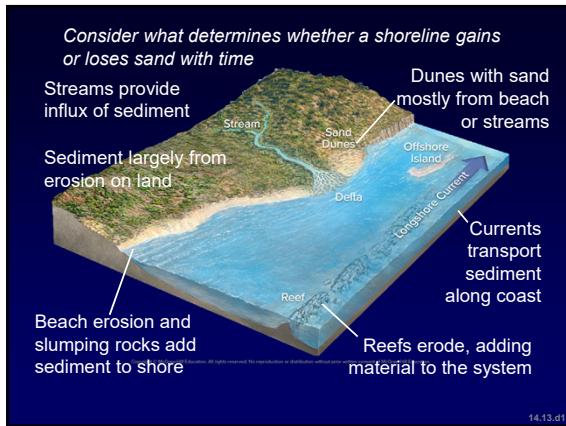




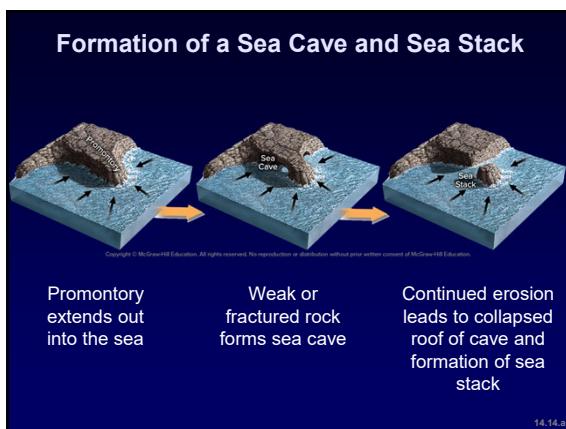


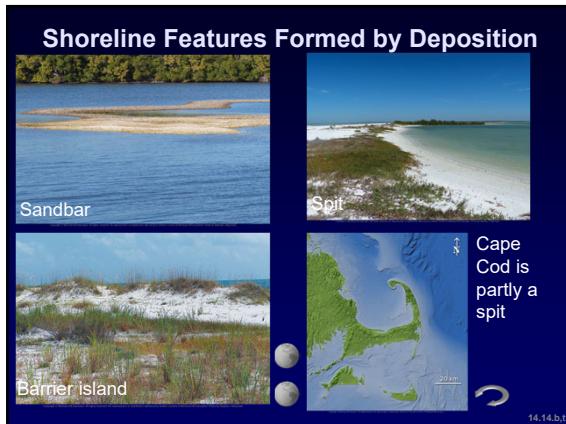


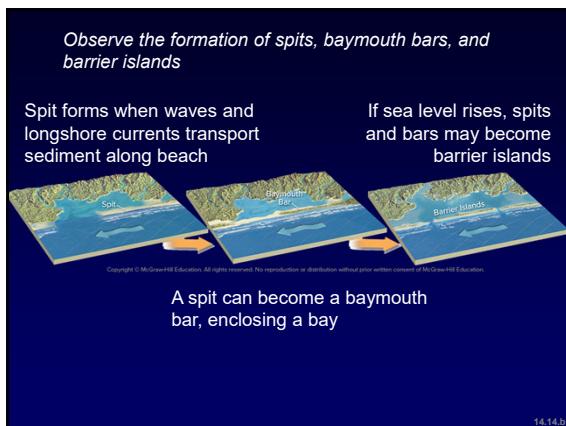


















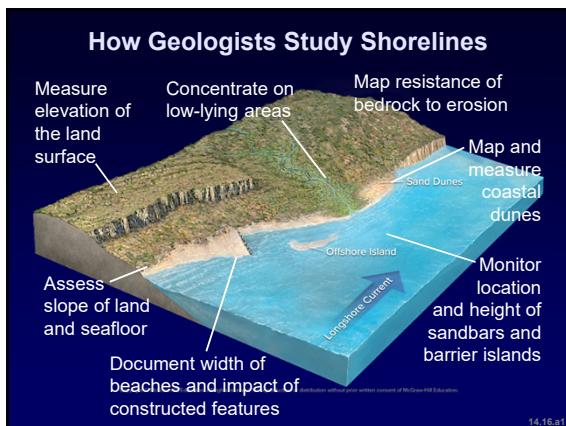


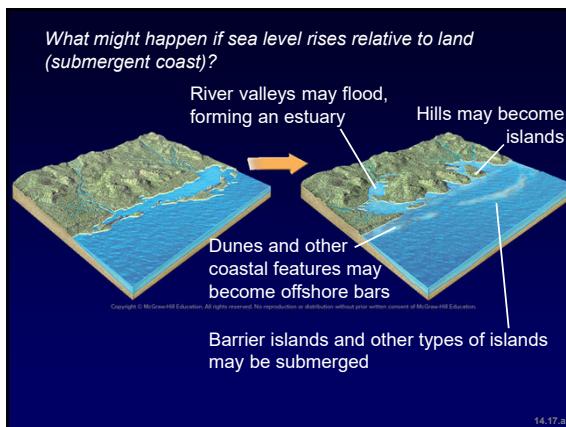












Characteristics of Submergent Coasts

Chesapeake Bay:
originally a river valley

Fjords: once glacier-carved valleys

Coastal dunes may become barrier islands

14.17.a

What might happen if sea level falls relative to land (emergent coast)?

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14.16.b

Characteristics of Emergent Coasts

Wave-cut notch formed at sea level will be above S.L.

Coral reefs exposed when sea level drops or land uplifted by tectonics

Wave-cut platforms now marine terraces high above sea level

14.17.b



