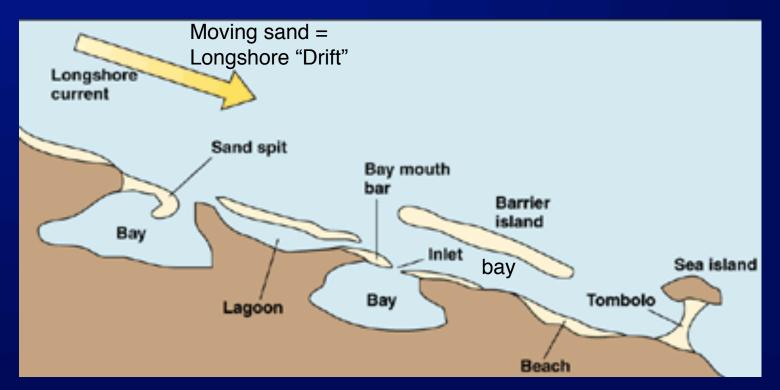
Background: Classification of Coasts

"Secondary" Coasts: Those shaped by marine (non-terrestrial) processes such as waves, currents, tides, and/or organisms.

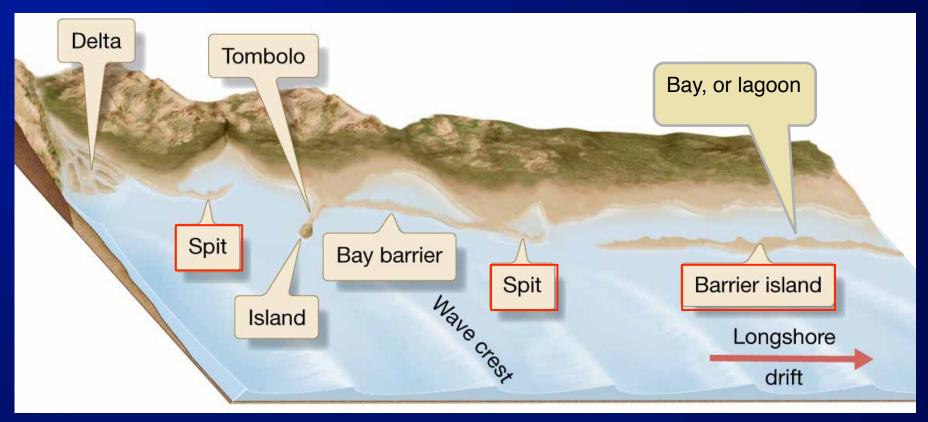
Examples:

- Marine deposition coasts ("barrier coasts", including **barrier islands**, sand spits, tombolos, baymouth bars, tidal inlets, etc.)



Veg?

Coastal Depositional Features



Barrier spit (BS) – connected to mainland (like Fenwick "Island" – Bethany/OC) Barrier island (BI) – disconnected from mainland (like Assateague Island)

A "Barrier" to Oceanic Wave Energy, Protecting the Mainland

Barrier Islands:

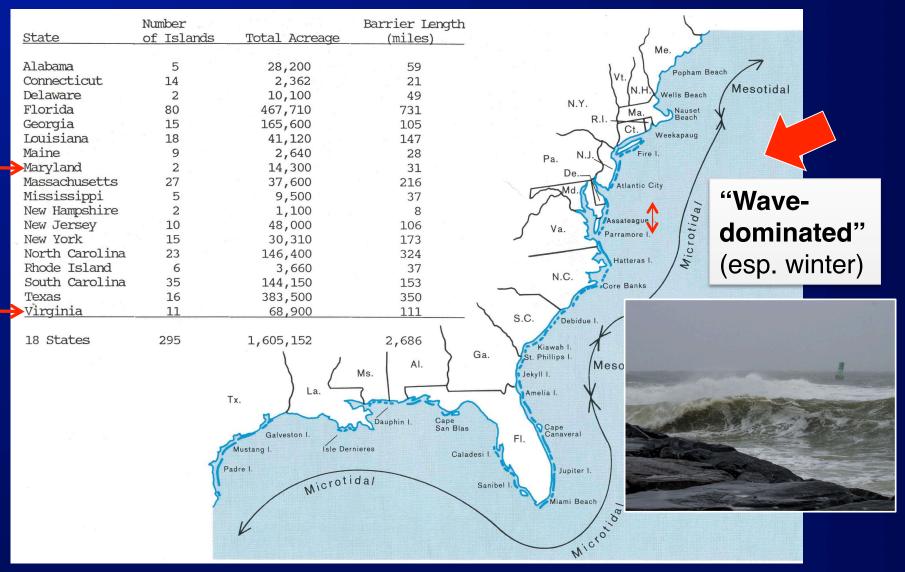
Holocene phenomenon (<6 ka); tectonically "passive" coasts; abundant shelf sand



US has ca. 295 extremely dynamic barrier islands spread over 2,700 mi, dissected by *dynamic inlets*, with mixed-salinity (brackish) bays/sounds/lagoons behind them.

- Maryland and Virginia blessed with ca. 13 BI's spread over 140 miles of coastline.

Coastal Barriers of the Mid-Atlantic Coast



Microtidal = < 2 meter tidal range (narrow energy focus, transient inlets)