Section 1. North Carolina's Barrier Islands

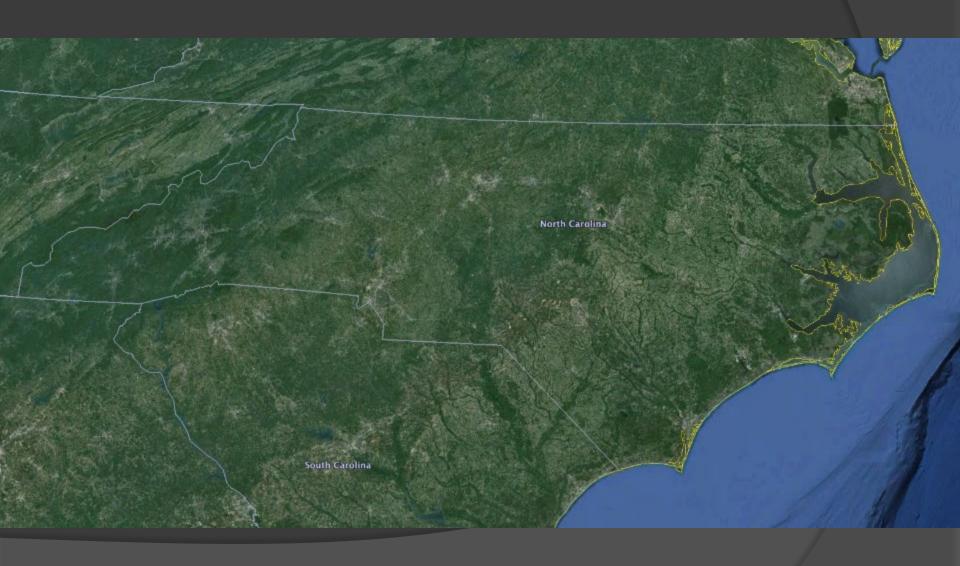
EXPLORING EARTH SURFACE CHANGES ALONG NORTH CAROLINA'S COAST

What is a Barrier Island?

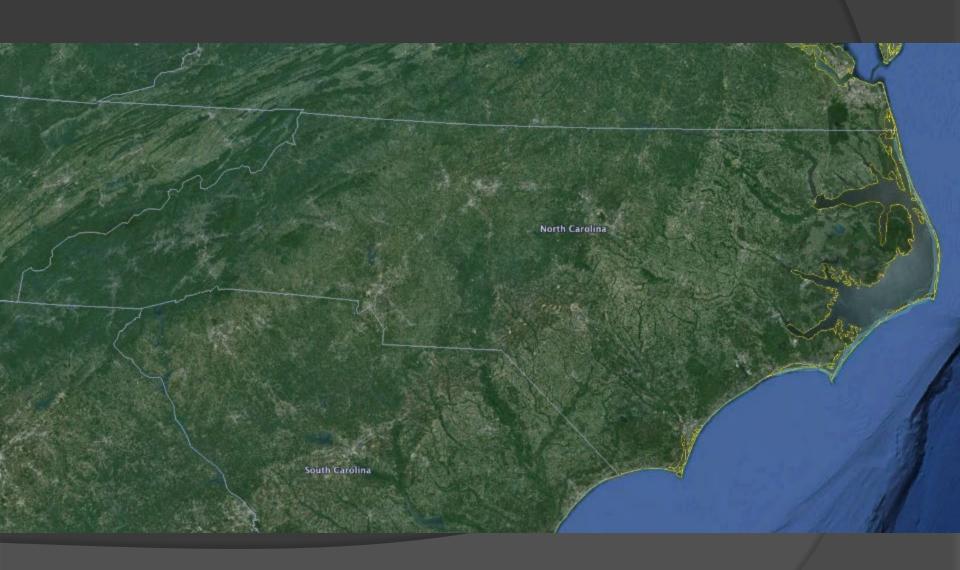


- A. Ocean
- B. Barrier Island
- C. Sound or Lagoon
- D. Mainland
- E. Inlet

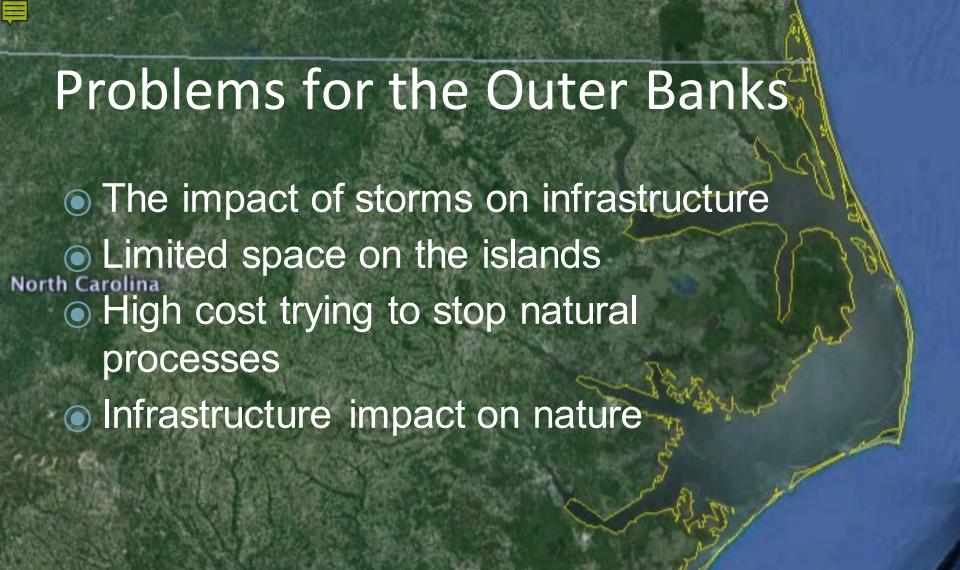
Where are the Outer Banks?



Where are the Outer Banks?





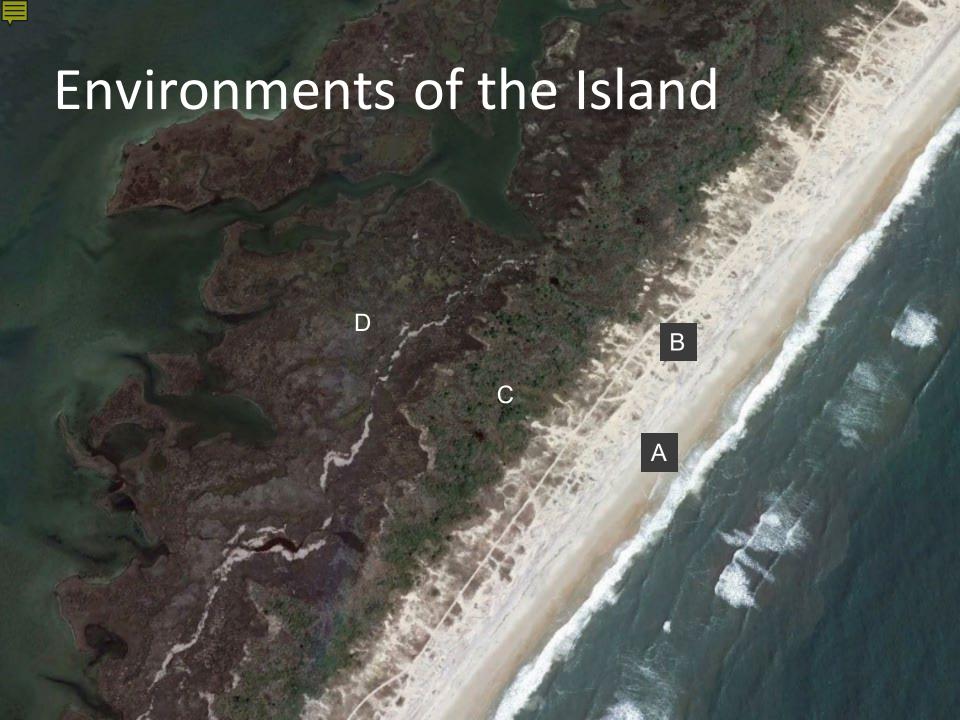


"Windy People, Dynamic Landscapes"

https://www.dropbox.com/s/d8lqctur7c32 9e6/Windy%20People.mov

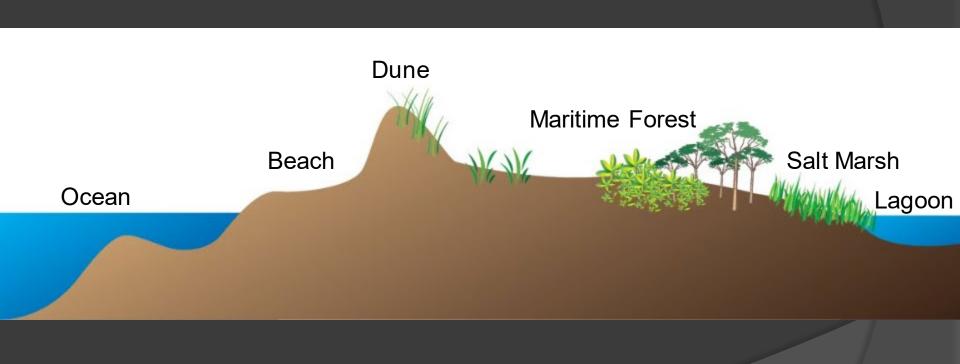
"Windy People, Dynamic Landscapes"

- Discussion Questions
 - What is the major cause of change on the Outer Banks?
 - Why is this a much bigger problem today than in the past?





The Island Profile





Beach







 Winds and waves are the dominant processes in this environment



Dunes







- Grasses and shrubs help to stabilize dunes
- Dunes built by wind
- Eroded by waves



Maritime Forest





- Trees, grasses, and shrubs can be quite dense
- Sandy organic soil forms as plant material dies and decays
- Wind is main physical process; storm surge may reach forest during large hurricanes



Backbarrier Salt Marsh



- Grasses dominate
- Tides and waves build or erode marsh
 - Overwash can cover marsh during storms



End of Section Quiz

- Draw an island cross-section and label each of the major environments.
- For each environment, describe the physical processes at work and distinguishing features.