QuickTime™ and a TIFF (Uncompressed) decompressor are needed to see this picture.

Beach Dynamics

Dr. Michael Katuna
College of Charleston
Evolution of the Coast

- Sealevel Fluctuations
- Age of the Barrier Islands
- Origin of the Sediment
QuickTime™ and a TIFF (Uncompressed) decompressor are needed to see this picture.

Satellite View of Coast
QuickTime™ and a TIFF (Uncompressed) decompressor are needed to see this picture.

Rising sea level
Prograding Shoreline  (Hayes, 1998)
General Geology
Reduction in river sediment discharge
Modern Coastal Processes
Wave Energy
Seasonal Beach Profile
Beach Building Process
Ridge/Runnel System on Kiawah Island
Beach Development - Bulls Island (Hayes, 1998)
Wave Refraction
Longshore Drift
Barrier Island Morphology (Hayes, 1998)
Longshore sediment transport Kiawah Island
Our Eroding Beaches

Edingsville Beach
Where does the sand go?
Ebb Tidal Delta at Price Inlet
Dune Erosion
Beach Behavior
Man’s Effect on our Coastline

- Hard Stabilization
- Soft Stabilization
Effect of Seawalls, Revetments and Bulkheads
Effect of Groins
Effect of Jetties
Folly Beach
QuickTime™ and a TIFF (Uncompressed) decompressor are needed to see this picture.

Beach Nourishment