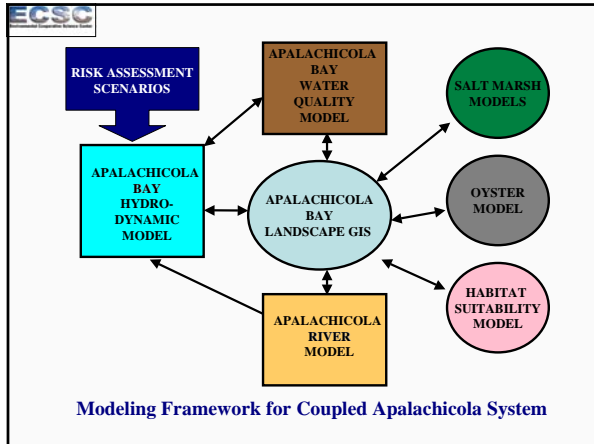


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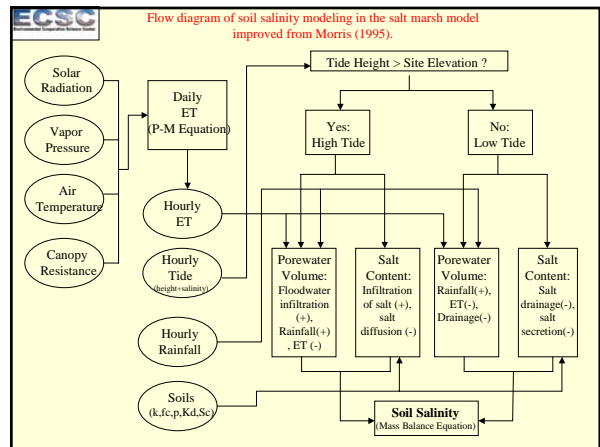
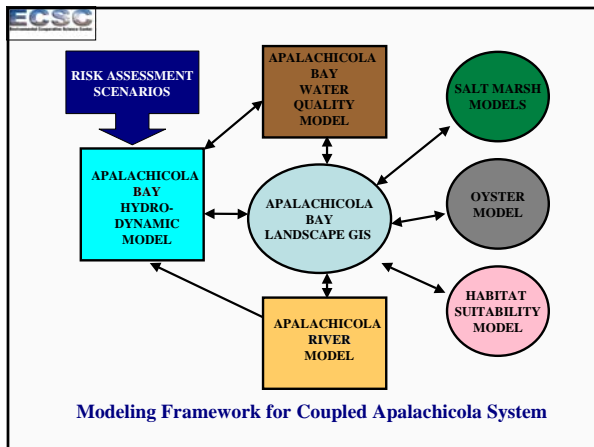
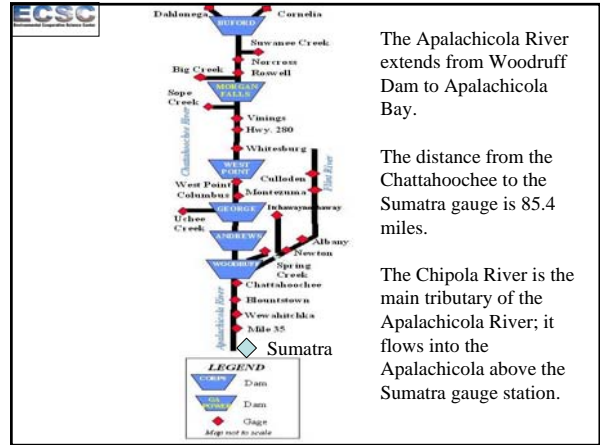
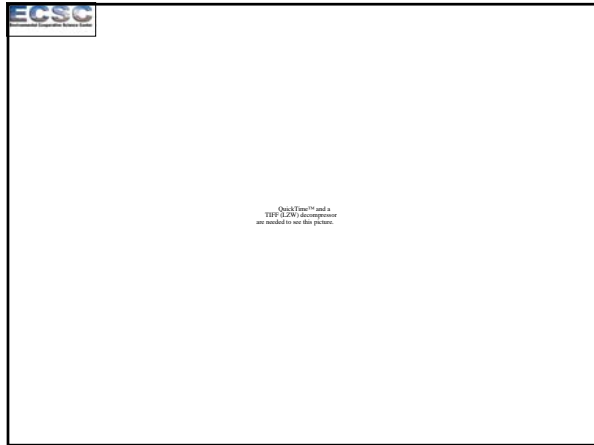
Calibration of MODBRNCH for the Apalachicola River Basin

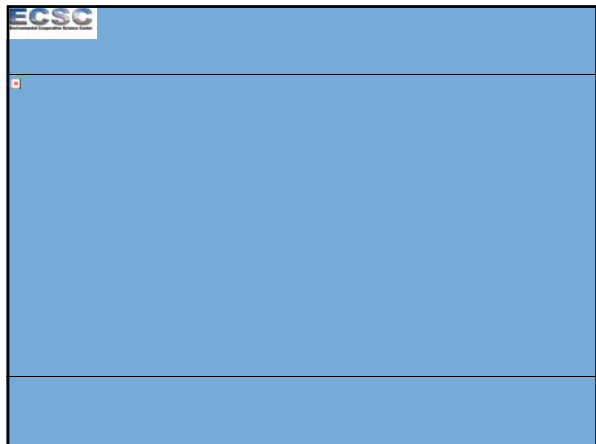
Main Property of Interest: Flow Rates

Calibration Procedure: Adjust parameters to attain good agreement between measured and calculated flow rates.

Parameters of Main Importance

- 1) Flows at External Junctions: Flow at the Chattahoochee and the Sumatra gauges
- 2) River-Aquifer Leakage Coefficient
- 3) Manning Roughness Coefficient for the river
- 4) Gradient of the riverbed





Marsh characterization (under NOAA funding)

- Sediment cores and ground truth data representing different vegetation patches (such as black needlerush and sawgrass) were collected in the Apalachicola Reserve, FL on March 31, 2004.
- Ground truthing will be used for vegetation classification. Sediment cores will be used to investigate salinity control over the vegetation distribution.
- The sampling trip was spearheaded by Prof. Y. Hsieh of Florida A&M University (FAMU), and included FAMU Research Associates Kevin Dillon and Glynnis Bugna, and Lauren Levi of the Apalachicola National Estuarine Research Reserve (ANERR).

