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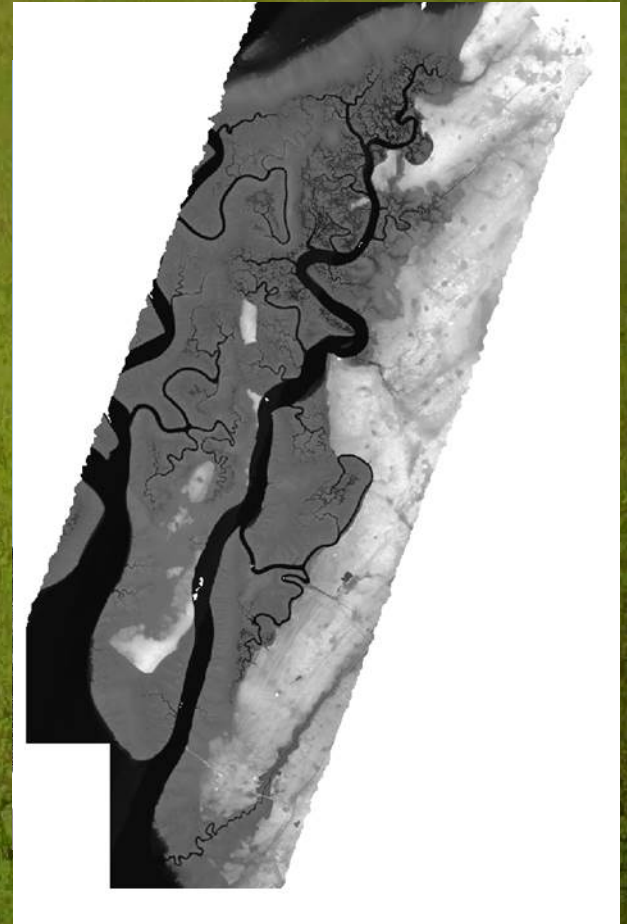
Geospatial analyses of coastal habitats

- Create accurate maps of coastal habitats using remote sensing data
- Develop techniques to monitor wetlands
- Predict climate change effects



Research Theme 1: Elevation

- Effects of elevation on tidal marshes and forests
 - Marsh dieback
 - Thin layer placement (TLP)
 - Habitat change
- Accuracy of LIDAR
 - Correct DEMs in tidal marshes and tidal fresh forests
 - SLR modeling inputs



An example of a LIDAR-derived DEM for Sapelo Island, GA. These data are used to map tidal marsh elevations and plant distributions.



Dieback near Savannah, GA

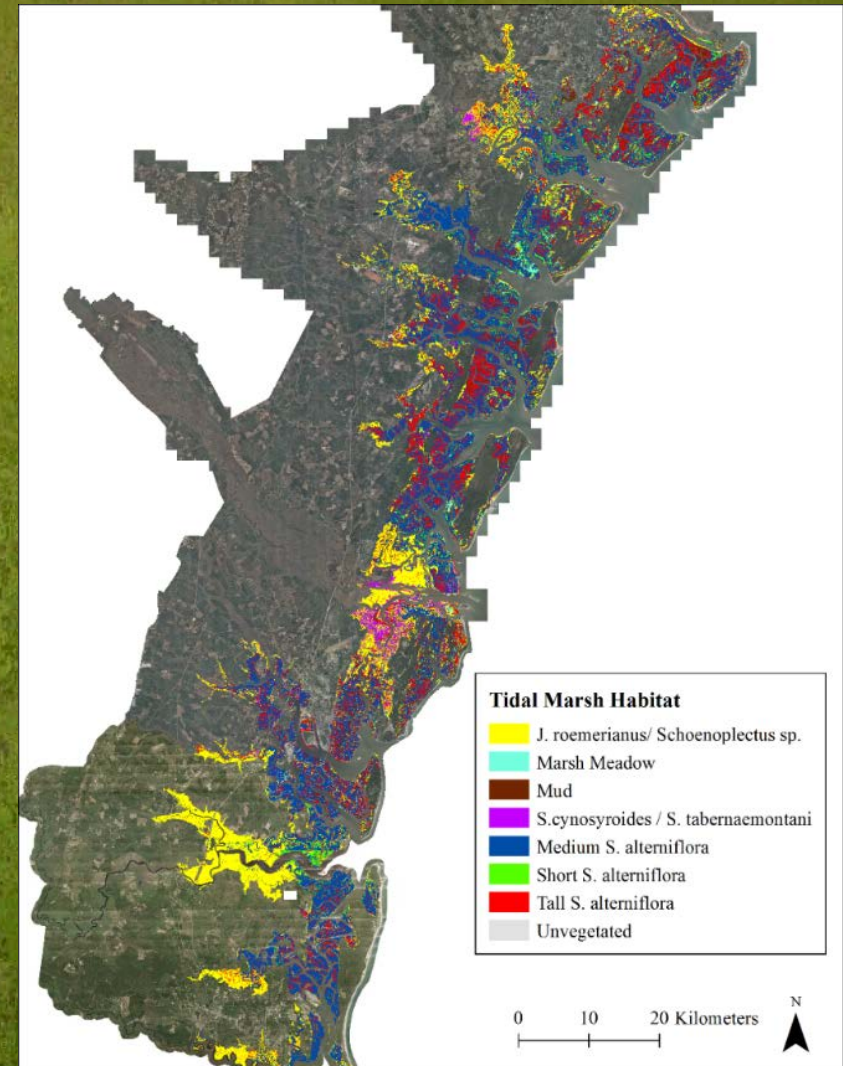
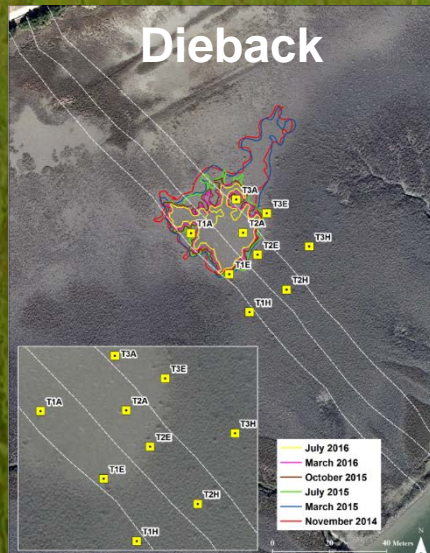


Marsh-mud-bucket walking

Research Theme 2: Classification and Mapping

Map coastal habitats

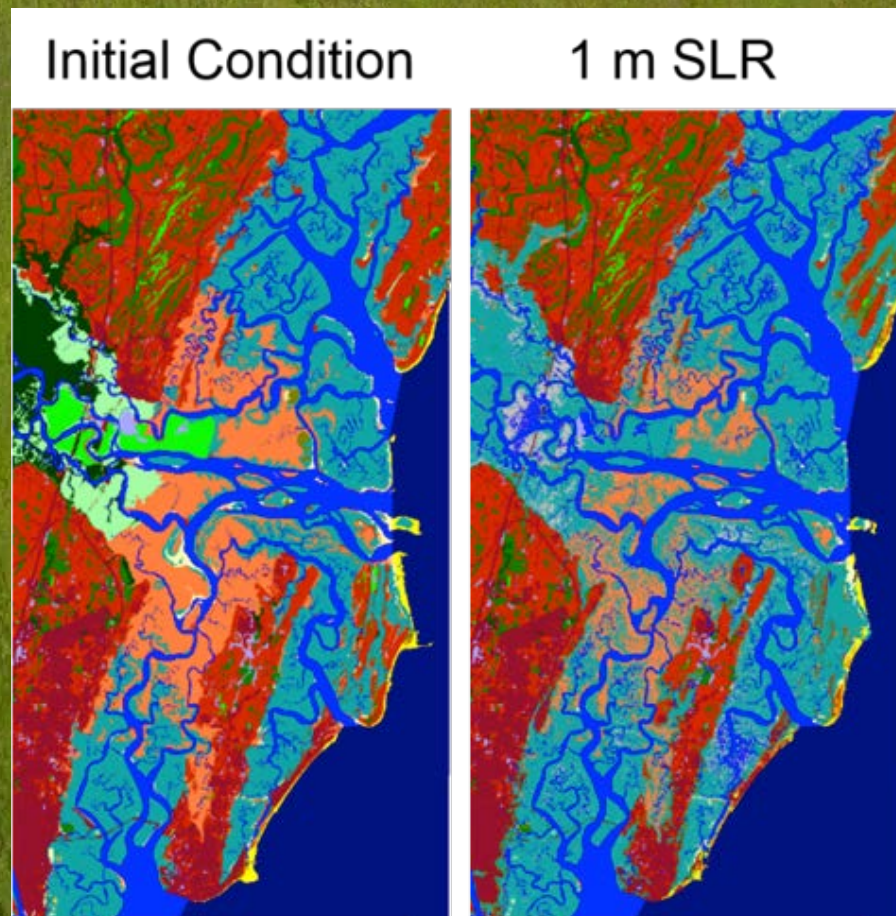
- Tidal marsh and tidal forest classification
- Salt marsh dieback, thin layer placement (TLP) habitat change



Research Theme 3: Predictive Tools

Predicting SLR impacts and habitat shifts

- Accurate habitat, elevation, and accretion data





Thanks!