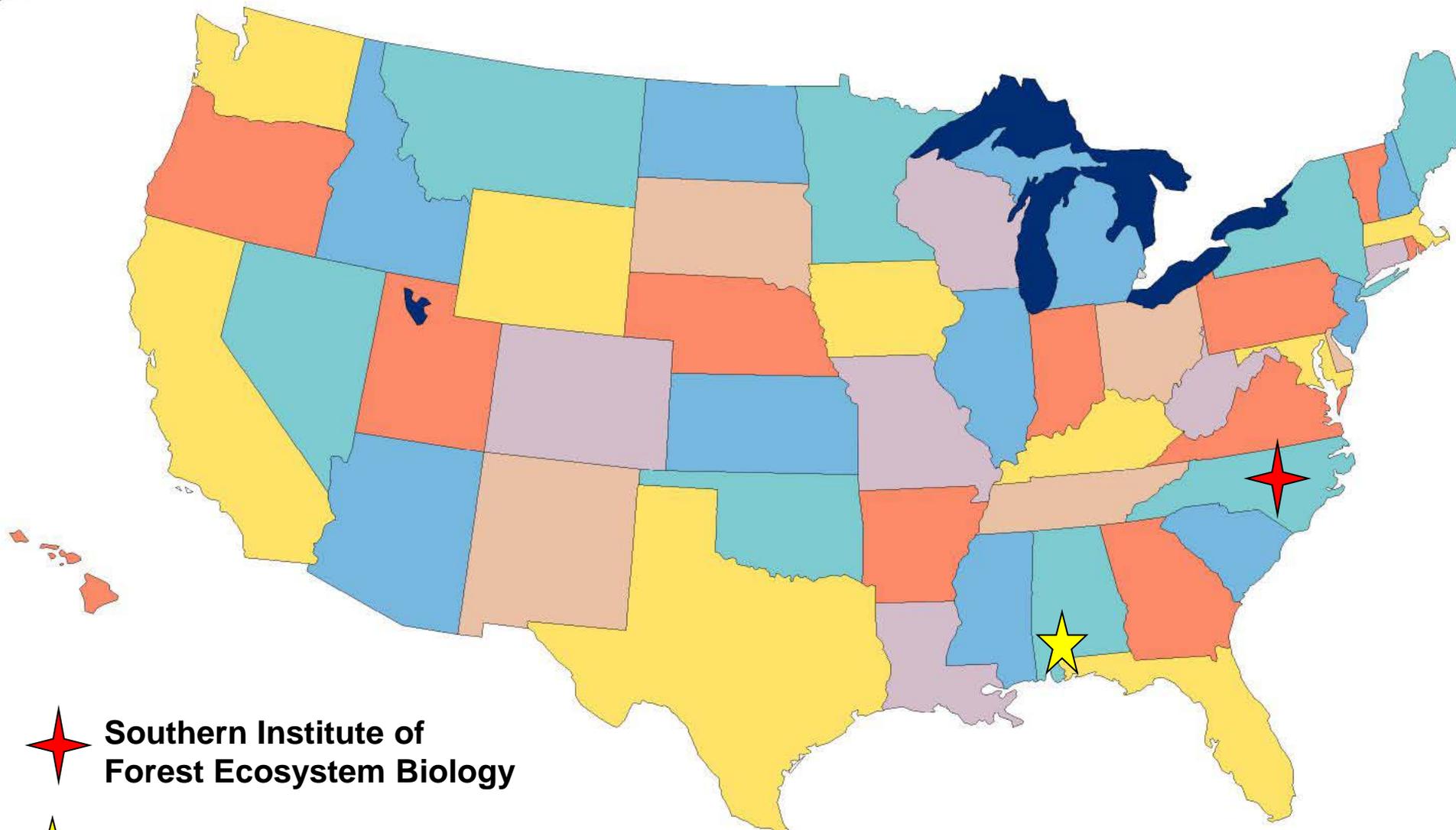


Forest Genetics and Ecosystems Productivity



 Southern Institute of Forest Ecosystem Biology

 Southern Institute of Forest Genetics

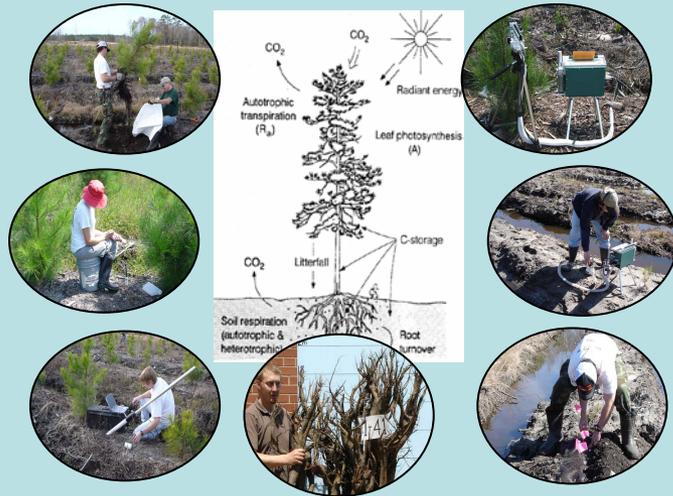
Forest Genetics and Ecosystems Productivity

Mission: To advance the scientific understanding of the roles of genetics, environment, and their interactions to provide guidelines and tools for improving the sustainable productivity of southern forest ecosystems.

Forest Genetics and Ecosystems Productivity

Biomass Activities: Enhanced forest above- and below-ground productivity through tree improvements and land management

- Improved Genetics
- Site organic matter utilization
- Resource manipulations (water, nutrients, light)
- Process models



Forest Genetics and Ecosystems Productivity

Agroforestry Activities

Objectives: To determine the effects of intercropping and/or biomass management on site productivity in a loblolly pine plantation.

Treatments:

- Pine establishment with residuals left in place
- Pine establishment with residuals removed.
- Pine intercropped with switch grass with residuals
- Pine intercropped with switch grass without residuals
- Pine intercropped with extra row of trees flat-planted with residuals
- Pine intercropped with extra row of trees flat-planted without residuals
- Switchgrass only

Cooperators: Weyerhaeuser Corporation; NC State University; Virginia Polytechnical Institute; Chevron Oil