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Major: Forest Watershed Management

Major: Inter. Agricultural Develop. - Agroforestry

Major: Forest Ecology (Restoration Ecology)

Current Project Description

Monitoring the restoration of longleaf pine flatwoods on Florida's Gulf coast

Objectives

Develop monitoring protocols for the restoration of Florida's coastal wet pine flats.

Identify restoration trajectories based upon a set of above and below ground indicators.

Model the restoration dynamics of coastal wet pine flats.

Test the model based upon the data collected at the restoration site.

Brief Description

The study involves the monitoring of the Pt. Washington restoration project with data on forest structure, plant species richness, net nitrogen mineralization, soil bacterial-to-fungal ratios, and soil chemical properties (available-P, pH, SOM) as indicators for change. The indicator data was collected from three reference sites along a 120-year chronosequence and at the restoration site. A restoration model will be developed based upon the analyzed field data.



20 year old wet longleaf pine savanna after recent burn.



Gap regeneration in recently burned 100 year old longleaf pine flatwoods.