

YEAR 2 REPORT

NAS Ecological and Economic Impacts of Land Use and Climate Change on Coastal Food Webs and Fisheries Project



YEAR 2 OVERVIEW

The goal of this project is to integrate the hydrology, ecology and economics of the Suwannee River basin to model human-natural systems. During Year 2, the project team worked to develop hydrologic and ecological models of the Suwannee River basin and estuary. Economic data was collected through surveys of general users and anglers. The advisory committees provided input that guided the development of future climate and land use scenarios.



OBJECTIVE 1: HYDROLOGY

- Developed surface water-groundwater model and completed test runs.
- Developed climate / land use scenarios.
- Developed Estuary Linkage Model.



OBJECTIVE 3: ECONOMIC

- Designed & implemented survey of Florida residents and visitors to assess concern for environmental changes.
- Survey of recreational saltwater anglers.



OBJECTIVE 2: ECOLOGY

- Curated data for timeseries and maps.
- Calibrated Ecopath with Ecosim model.
- Developed Ecospace model.



OBJECTIVE 4: PUBLIC INPUT

- Facilitated listening session with advisory committees to receive feedback and identify important topics to consider.

GOALS FOR YEAR 3

In Year 3, the models developed in Objectives 1 & 2 will be finalized. Data collected by the economic team will be used to conduct a regional economic impact analysis. Future scenarios will be run through the models to forecast ecosystem and economic impacts. Communication materials will be developed to disseminate results to stakeholders and management agencies. A webinar and public workshop will be held to inform diverse audiences about the model scenarios.