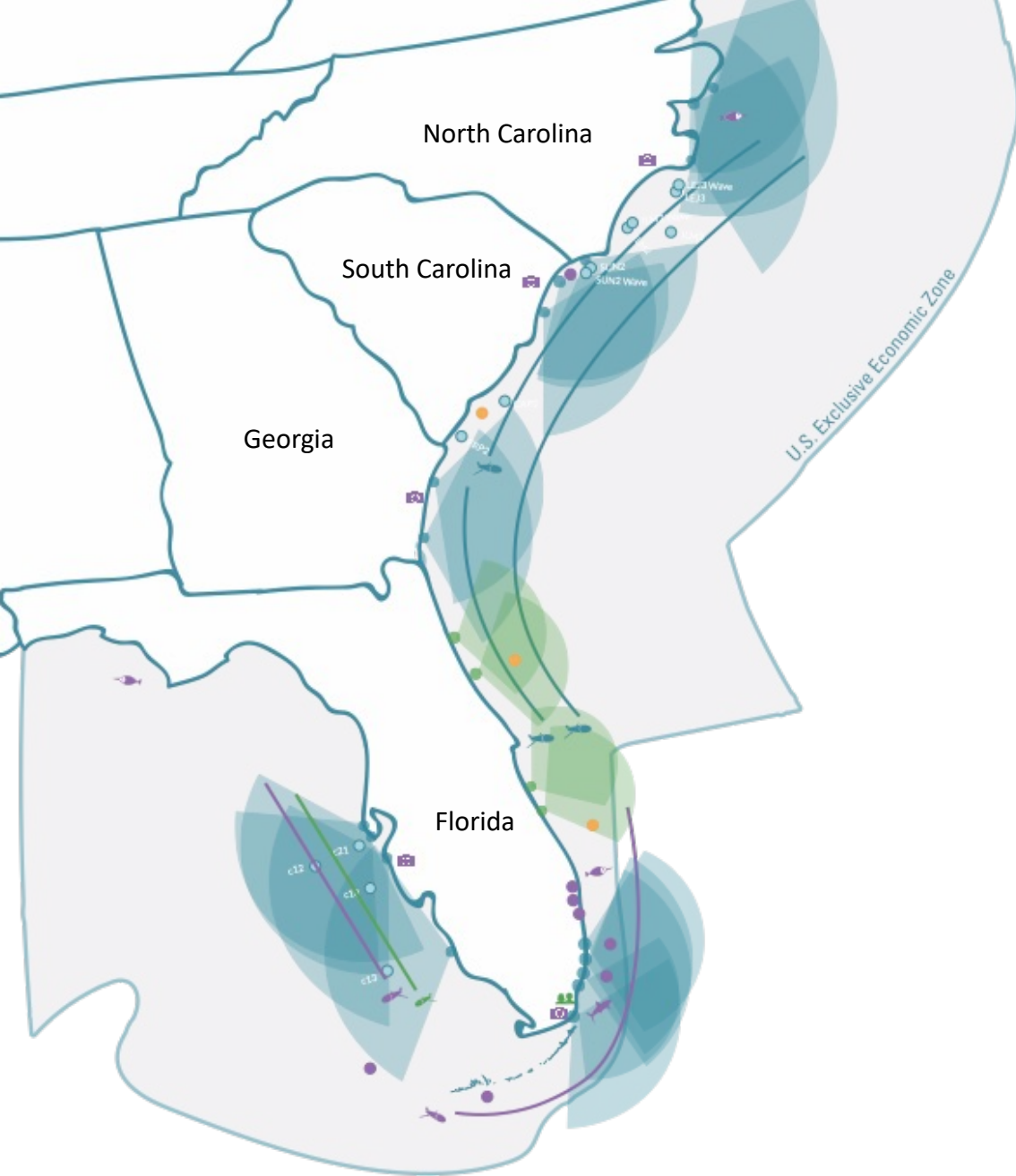


SMILE

Size Matters: Innovative Length Estimate

Abbey Wakely, SECOORA



SMILE

A diver wearing a white lab coat and a colorful headband is underwater, holding a large, complex camera rig. The diver is positioned on the right side of the frame, looking towards the left. The background is a clear blue ocean with various types of coral reefs visible. The lighting is bright, suggesting a sunny day. The overall scene is a scientific or documentary-style underwater shot.

- Three-year pilot project in Florida Keys to estimate fish length
- Funded through NOAA's Coral Reef Conservation Program
- Partners:
 - Reef Environmental Education Foundation (REEF)
 - South Atlantic Fishery Management Council's (SAFMC) Citizen Science Program
 - Axiom Data Science
 - The Semmens Lab at Scripps Institution of Oceanography

Year 1 Workplan

- Camera technology is being developed at The Semmens Lab at Scripps Institution of Oceanography
- Stereo video camera system used to generate fish length estimates
- Cameras designed for citizen scientist for ease of use



Challenges and Looking Ahead

- Axiom assisting processing camera imagery and drafting metadata standards for the images, species, and size estimates
- Field testing in 2024
- Project results and image sharing with SAFMC in 2025

