



# SECOORA Glider Observatory

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# Objective and Approach

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## Objective

- 3-5 glider deployments per year in SECOORA footprint
- Raise visibility of glider work in South East
- Leverage SECOORA assets
- Collect data that is useful to science, fisheries, general public
- Engage stakeholders through effective partnerships

## Approach

- Collaborative team – joint piloting, shared resources, pooled data management
- Mapping missions – shelf and slope/Gulf Stream edge
- Ship time donated from partners in fisheries (Reyier, NASA @ Canaveral; GRNMS)
- Acoustic equipment (Vemco VMTs, passive acoustic receivers) provided by partners (Ocean Tracking Network, NOAA/NC-COS)

# Accomplishments

- 4 deployments – 3 basin-scale surveys, plus one shake-down deployment for “new” glider – Pelagia
- Issues with aging glider fleet, sensor failures
- New automated data processing and visualization
- NSF/PEACH activities contribute additional coverage, increasing visibility, data volume in SECOORA footprint



# Impact

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- Data submitted to NGDAC for data assimilation in real time to improve operational ocean model forecasts
- Data sharing with FACT, OTN, fisheries partners
- New techniques for glider navigation based on HF radar
- New understanding of acoustic telemetry performance on mobile assets
- Glider community impact of intra-RA glider hurricane evacuation (made NOAA news of the day!!), lessons for hardening of glider operations centers
- 1 journal paper, 4 conference papers published in year 2

