

# East Central Florida HFR Array

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# Objective and Approach

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## Objective

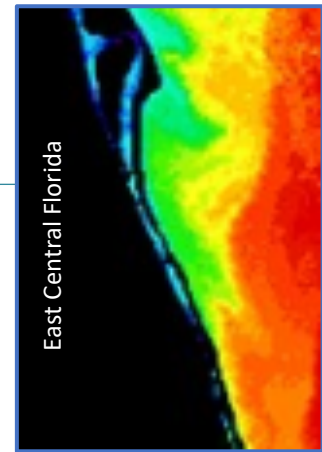
- Filling the HFR gap between Miami and Savannah
- Operate at 13.5 MHz
- Collaborate with U. Miami in establishing stations at Patrick Air Force Base and at Sebastian Inlet State Park
- Operate 24/7 and provide current velocity, wind speed, and wave height to users

## SECOORA Focus Area

- Issue/focus area that work most impacts
  - Marine Operations
  - Coastal Hazards
  - USAF 920<sup>th</sup> Rescue Wing training operations
  - Current and Wave Variability over Oculina Bank HAPC
- Stakeholders:
  - Patrick Air Force Base
  - Sebastian Inlet State Park
  - Port Canaveral Operations
  - Oculina Bank HAPC regulators
  - USCG Search And Rescue
  - Yachting and fishing
  - NWS weather forecasters

# Accomplishments

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Cape Canaveral SST

- Accomplishments in the last year:
  - SECOORA contract to Florida Tech executed
  - U. Miami subcontract executed
  - Reconnaissance mission to NASA Kennedy Space Center
  - Reconnaissance mission to Sebastian Inlet State Park (SISP Director approved and forwarded recommendation to State DNR)
  - WERA contracted by SECOORA to build HFR
  - Eau Gallie Yacht Club presentation
- Site Survey Authorization for East Central Florida High Frequency Radar obtained from USAF
  - USAF Strategic Basing Panel (SBP) approves HFR site survey
  - PAFB Site Survey to be conducted in June 2019
  - If approved by SBP, still requires Secretary of USAF approval (Pentagon level) – anticipated date: November 2019

# Impact

- Project's impact
  - Highly complex surface current, wind, and waves, at 15 minute temporal resolution, mapped for first time.
  - Data freely provided to maritime and fishing interests.
  - Co-located coverage with NOAA buoy for spacecraft recovery.
  - Oculina Bank surveillance.

