

Marine Operations WERA HF-Radars

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Overall Objectives

Objectives

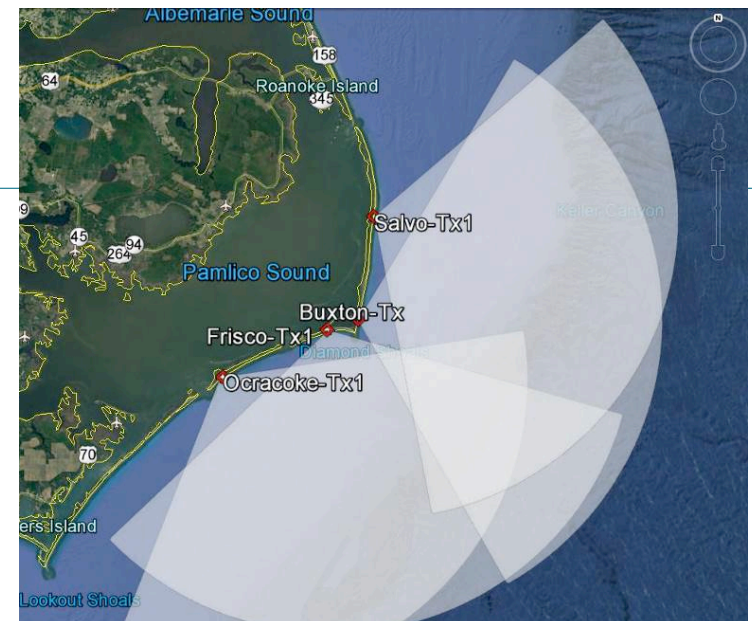
- Provide high accuracy surface currents
 - in near real-time
 - at high space and time resolution
 - over large areas: shelf and Gulf Stream
 - in Georgia and North Carolina
- Soon in Florida North of Cape Canaveral

High impact in SECOORA Focus Areas

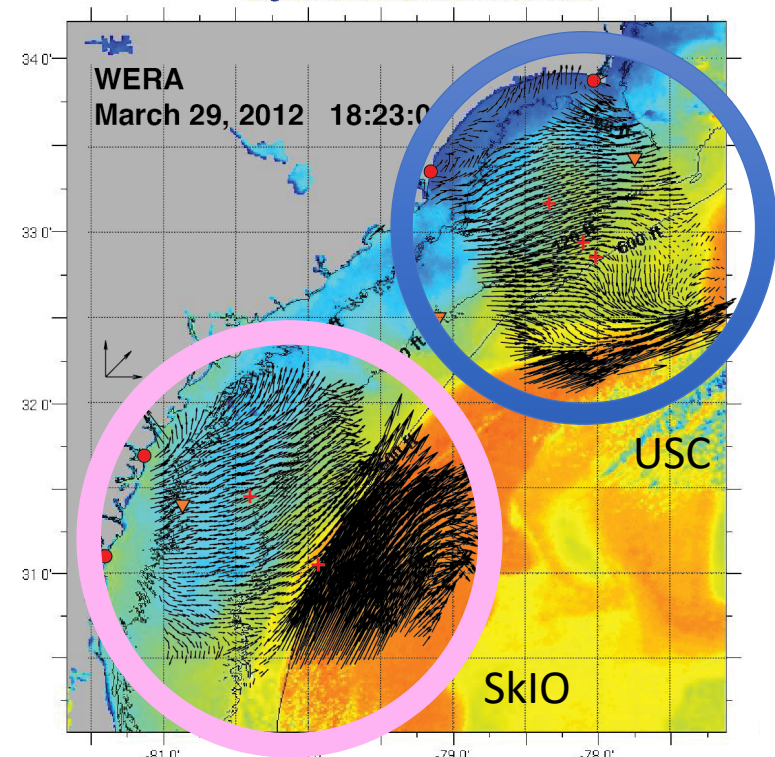
- Marine Operations
- Tracking and Mitigating Coastal Hazards
- Climate Variability

Stakeholder and Interested Parties

- U.S. Coast Guard
- Ocean Modelers
- National Weather Service
- Scientists and Stewards



NOAA-18 Sea Surface Temperature: March 29, 2012 0833 GMT
Rutgers Coastal Ocean Observation Lab



Accomplishments

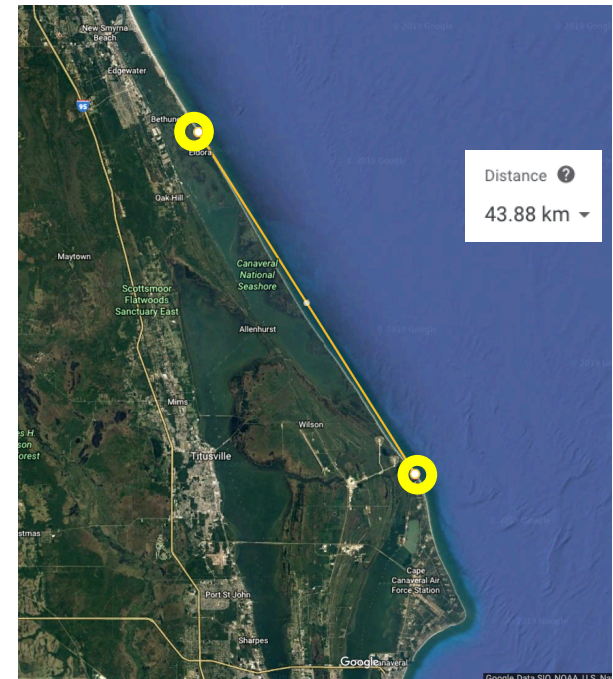
- Patiently Politely Waiting Waiting
 - Jekyll Island Siting and Permitting
 - Jekyll Island Beach Renourishment
 - Jekyll Island Villas-by-the-Sea Boardwalk Rebuild
 - (shhh – also the NOAA Hurricane Supplement)
Now Arrived!!
- Jekyll replacement parts ordered, beach and boardwalk rebuilds soon, Re-install Jekyll HF-Radar soon.
- Purchase of 4 leased WERA systems with SECOORA/NOAA funding.
 - Two sites to FL, one stays in NC, one TBD
 - Tech Training and processing transfer to new operators.
- Progress on siting and permitting new installations north of Cape Canaveral.



Photo Courtesy of Red Bug Motors Pizza. Taken Sept 4, 2017



Photo Courtesy of Red Bug Motors Pizza taken after Hurricane on Sept 13, 2017



Impact

- In locations with good spatial coverage, these data are INVALUABLE for assistance in Coast Guard Search and Rescue.
- Contributions to glider control, model validation.
- Strong potential to examine wave field spatial variation, to assist with Marine forecasts, erosion and rip current risks.
- Research!

