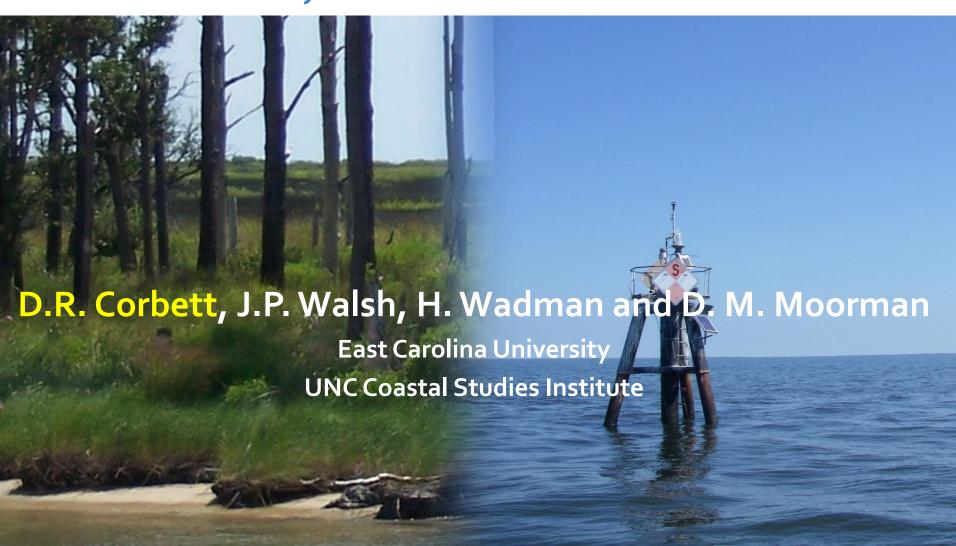
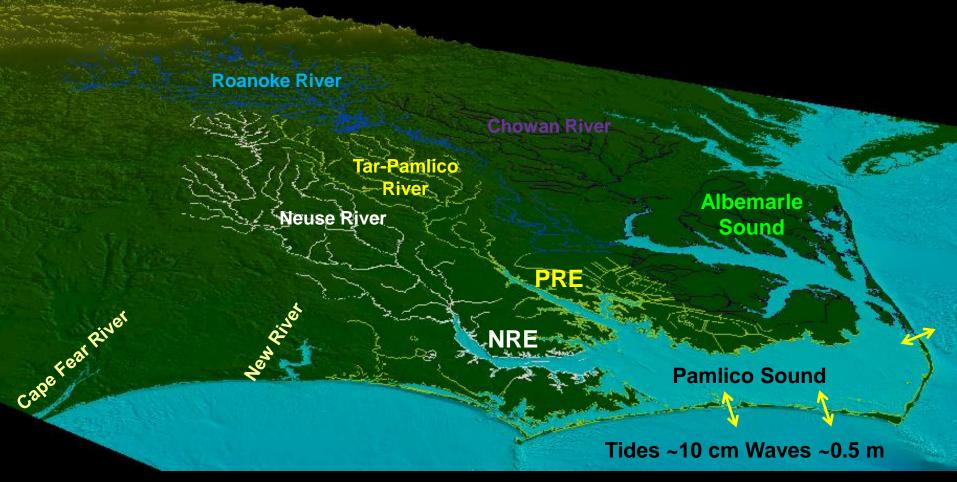
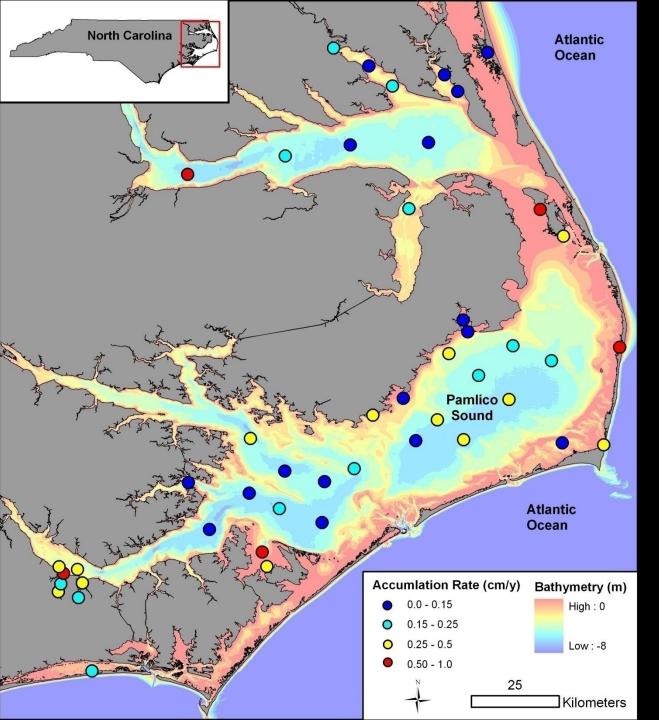
Estuarine Observing in North Carolina Past, Present and Future



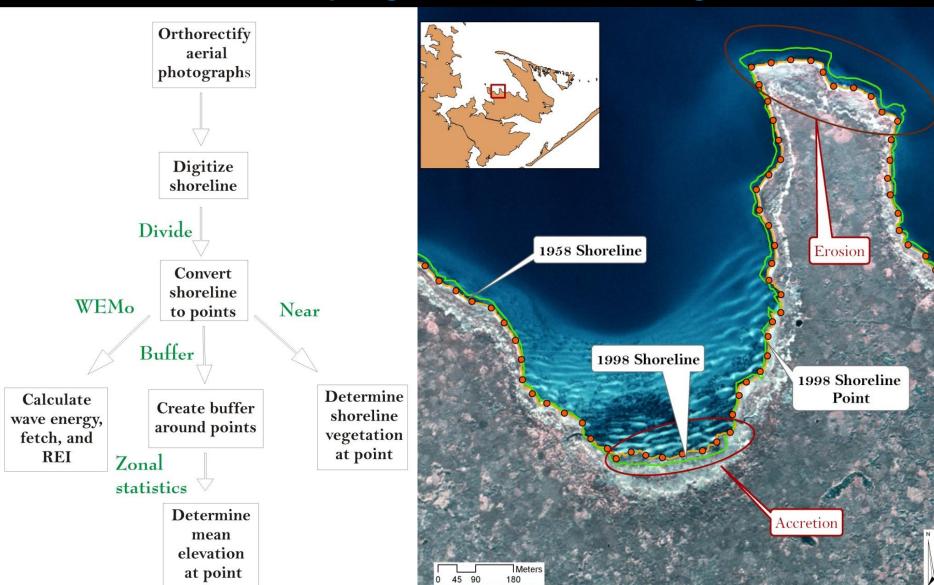


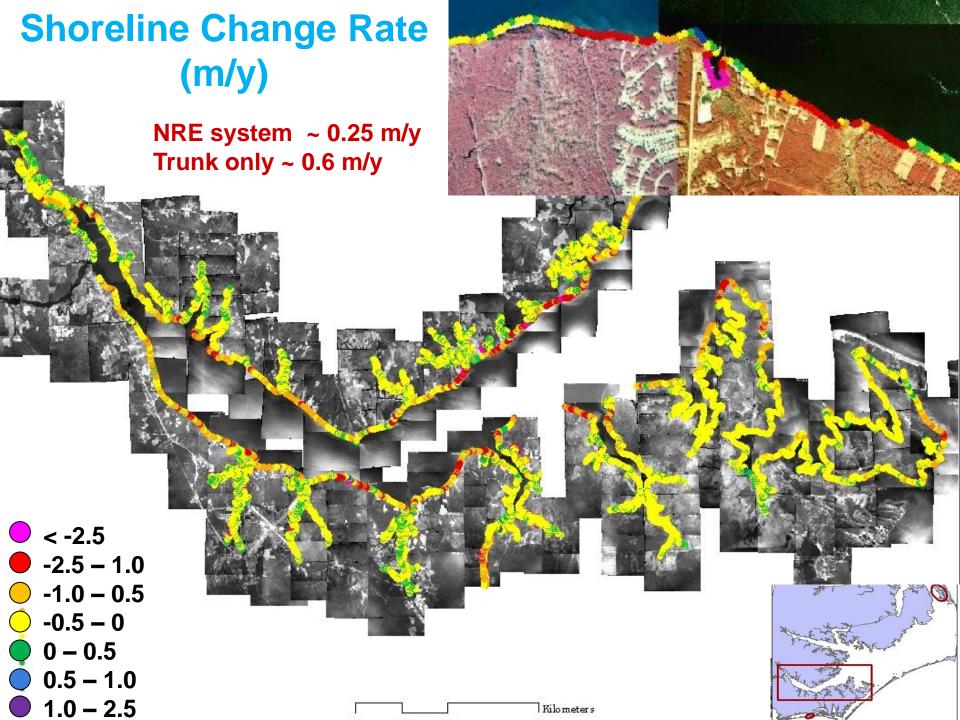
	Water Discharge (m ³ /s)	Sediment Load (t/y)	Yield (t/km²/y)
Chowan	130	1.6×10^{5}	14
Roanoke	251	3.1×10^{5}	14
Tar-Pamlico	153	1.9×10^{5}	19
Neuse	173	2.1×10^{5}	13
	707	8.7×10^5	



- Rates 1 ~ 10 mm/y
- Highest rates in heads and tributaries
- Budget indicates non-fluvial sources

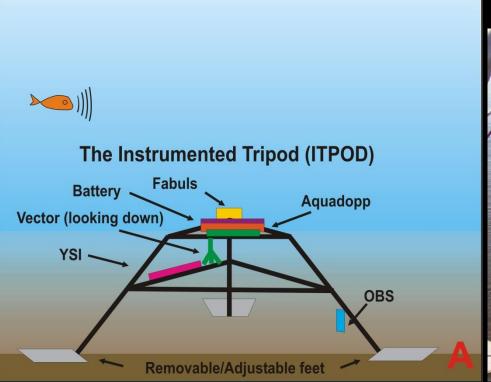
Quantifying Shoreline Change

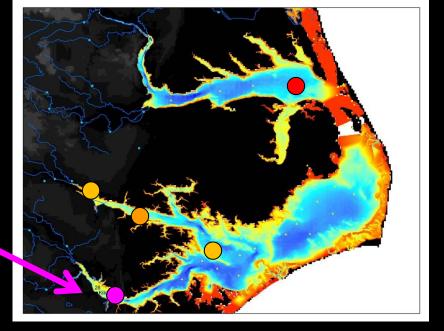




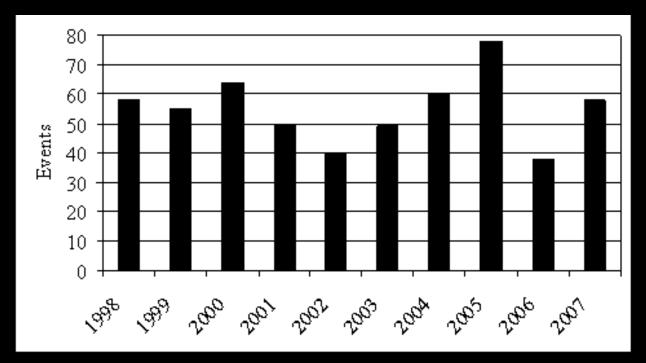
Seabed Dynamics

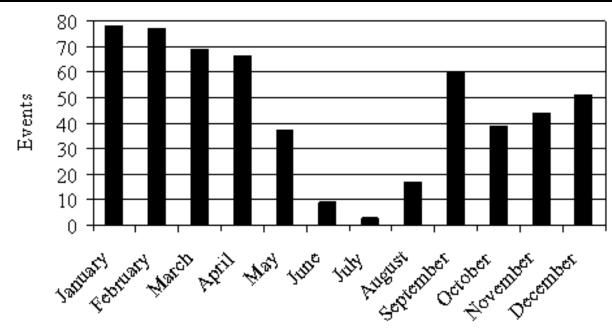
Neuse River Estuary







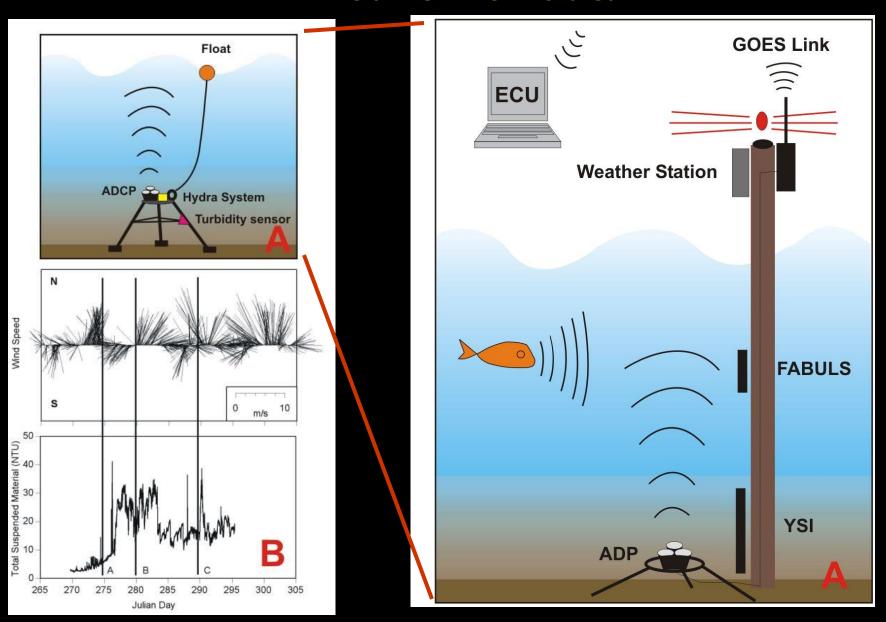




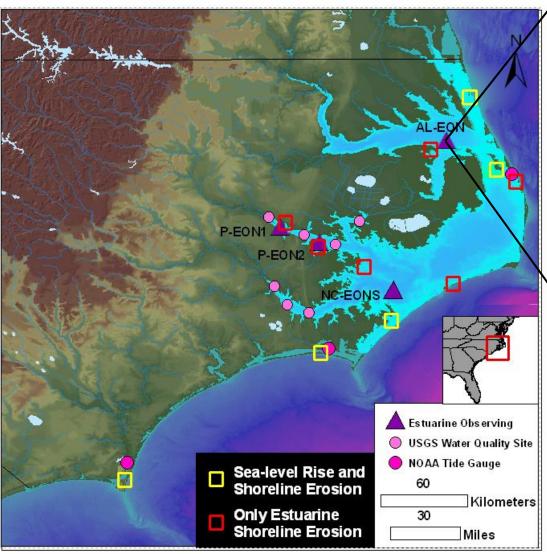
Wave-Driven Resuspension Events

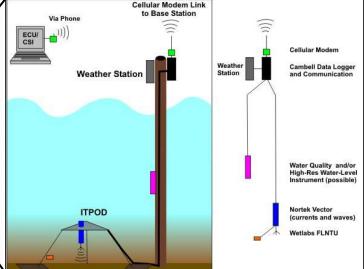
- ~50 events/year
 - Considerable interannual variability
 - Numerous in winter
 - Infrequent in summer

Sediment Dynamics & Water Quality – Need "real-time" data



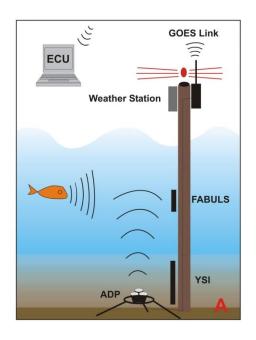
Estuarine Observing – 2008 Map





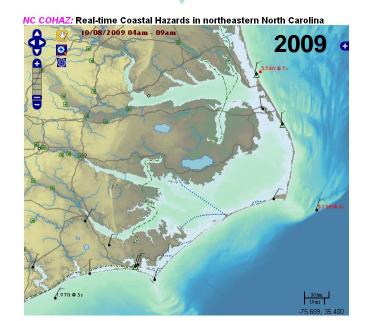
- •Multiple observing platforms exists (AL-EON, USGS, US ACE) and are planned (NC EONS, P-EON1) within the APES
- •An orchestrated network of instruments can provide invaluable information on the coastal effects of storms or other events in real time.

Need to think beyond the norm...methods of linking science and policy!

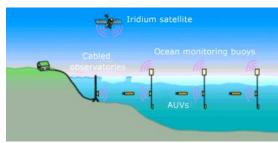




Moving in the wrong direction...









Established in 2000 COASTAL OCEAN RESEARCH AND MONITORING PROGRAM

kip to content | sitemap

HOME

ABOUT US

CORMP DATA

MARINE FORECAST

RESEARCH THEMES

REPORTS & PUBLICATIONS

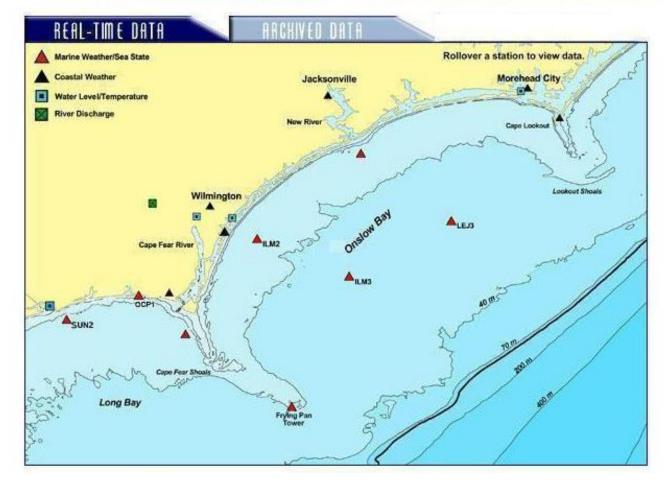
TEACHER RESOURCES

LINKS OF

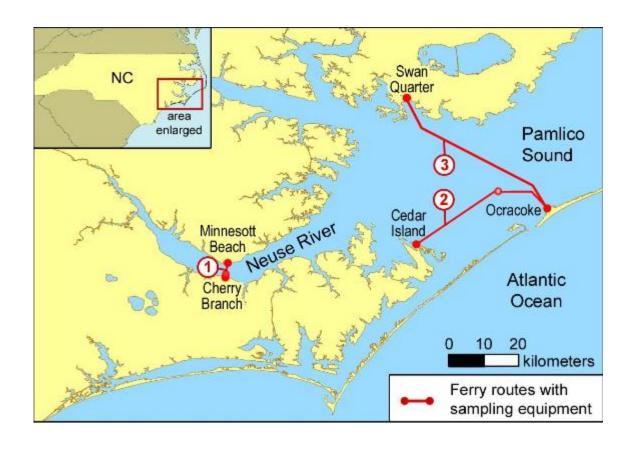
DISCLAIMER

CORMP

Notice: CORMP Moving to Carolinas RCOOS http://CarolinasRCOOS.org Notice to Mariners

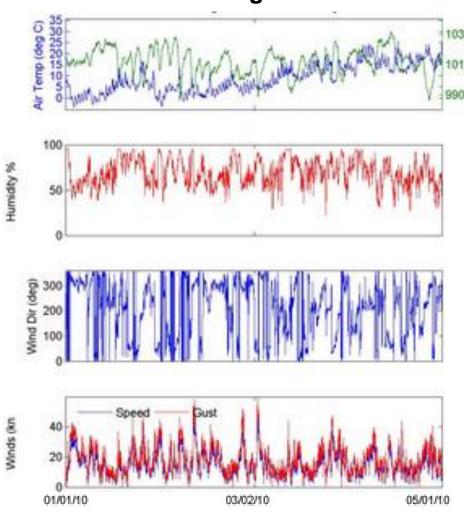


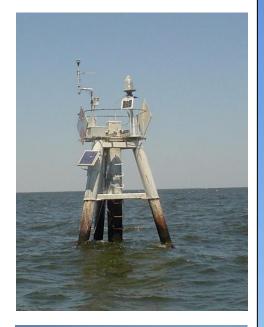
FerryMon...more than a decade of data.



The Albemarle Sound Site Started in 2007

Meteorological Data

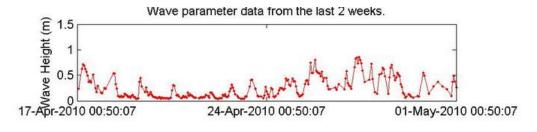


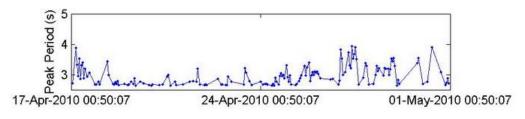


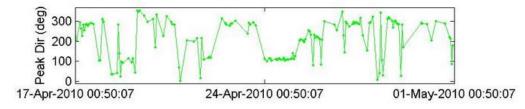


The Albemarle Sound Site

Wave Data









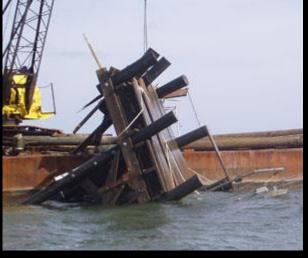


NC EONS Platform A Multi-Institutional Approach

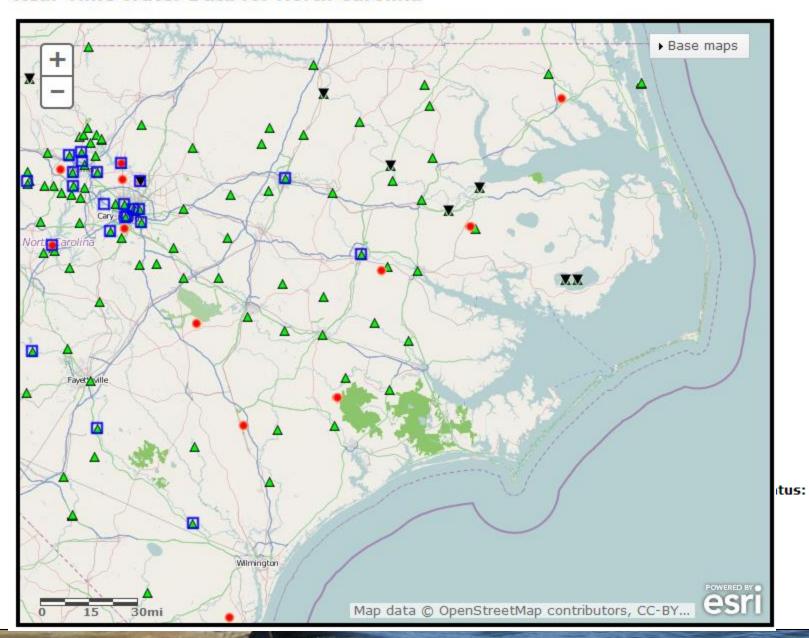
Organizational meeting at IMS January 9, 2008



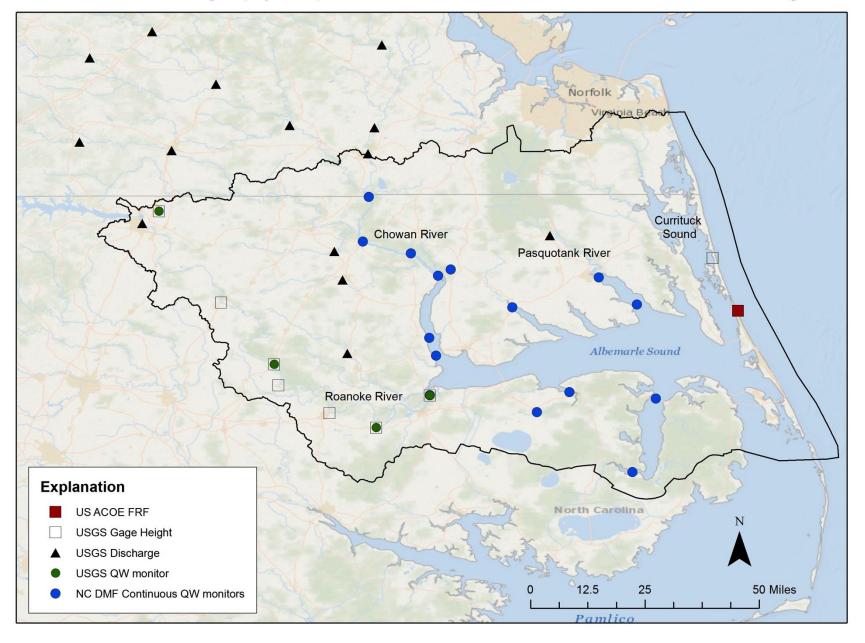




Real-Time Water Data for North Carolina



Continuous monitoring of physical parameters in surface waters of the Albemarle Sound Region

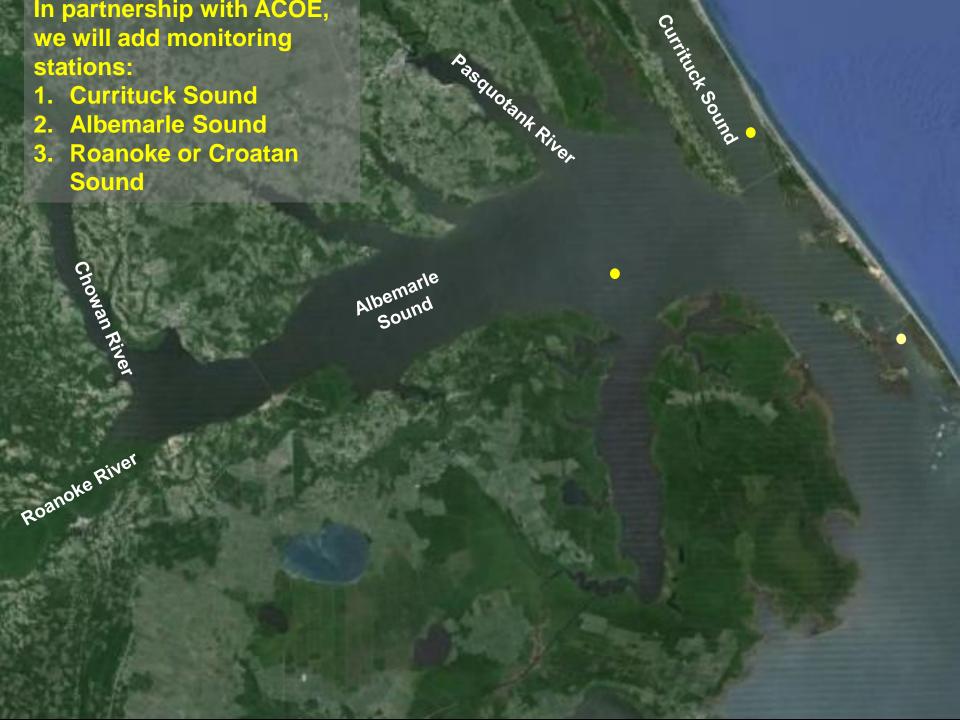


So, where do we go from here...









Currituck Sound



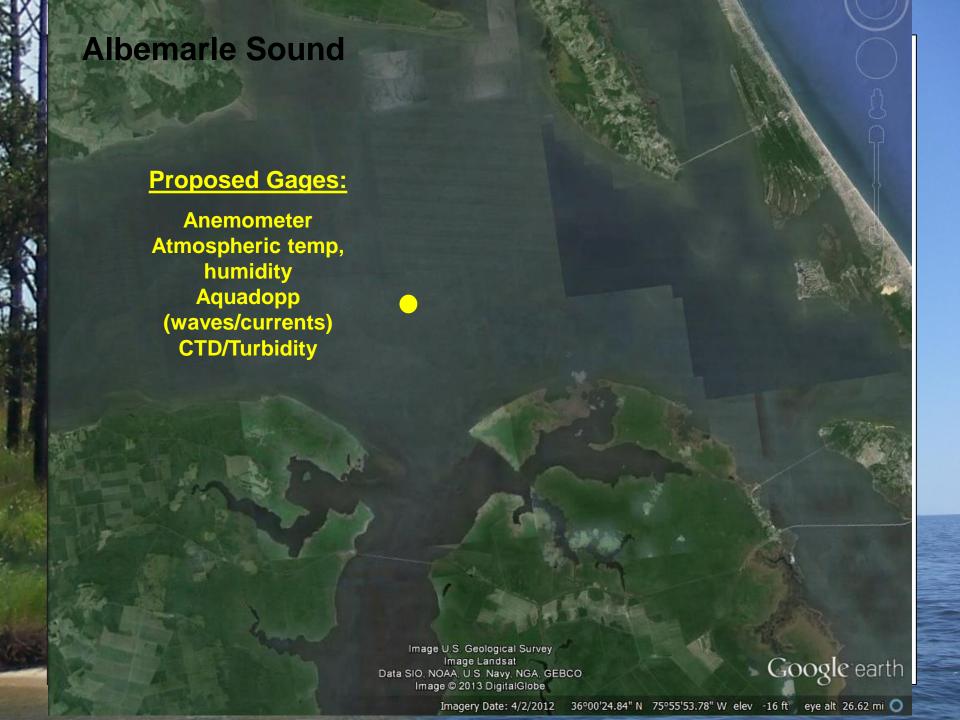
🏲 Instrument Platform

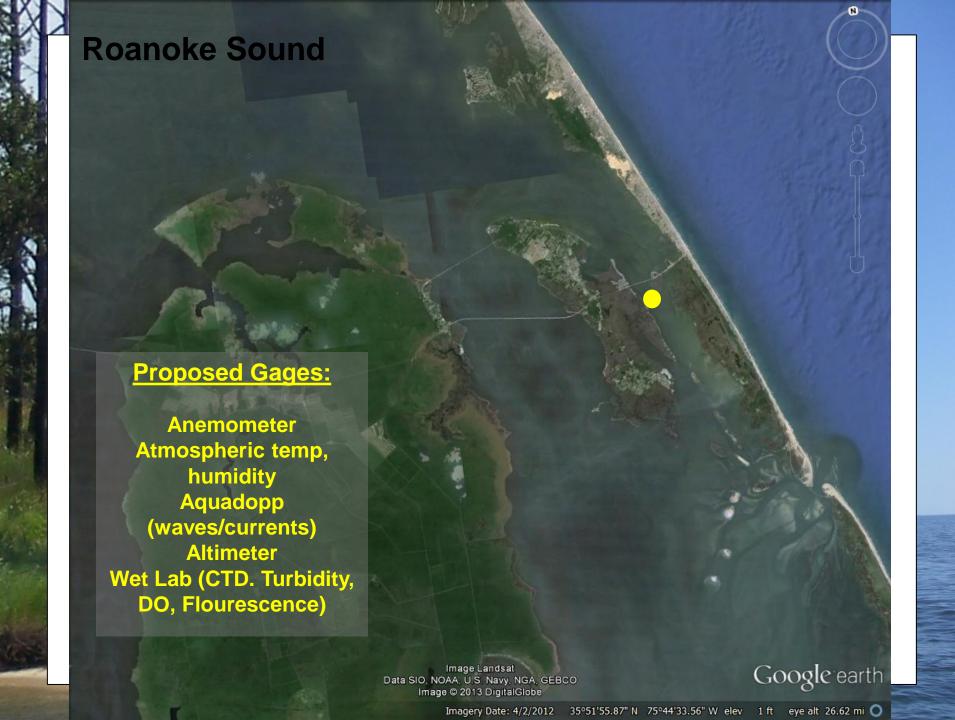
Proposed Gages:

Anemometer
Atmospheric temp,
humidity
Aquadopp
(waves/currents)
Altimeter
Wet Lab (CTD. Turbidity,
DO, Flourescence)

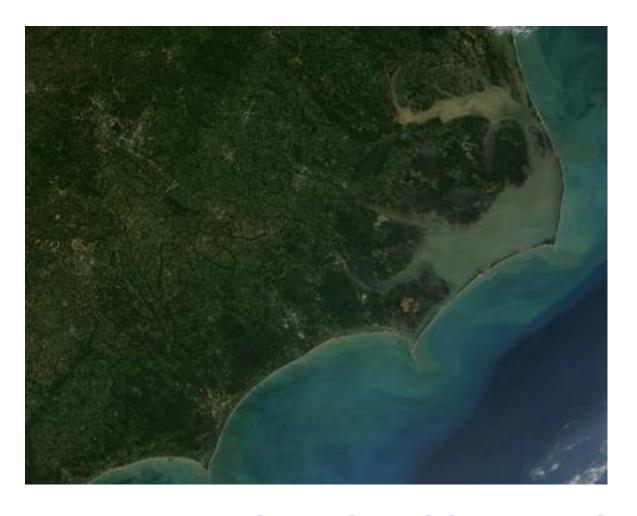
Image © 2013 DigitalGlobe







Our next move needs to include you...



...your thoughts, ideas, and \$upport.