

Good Evening!

- Captain Michael H. Hulme, Director of Marine Operations
- Research Fleet Operations
- University of Maryland Center for Environmental Science (UMCES)
- R/V RACHEL CARSON

Professional Mariner 37 years...

- Master of Steam or Motor Vessels,
 - 1600gt.
 - Master of Auxiliary Sail, 200gt.
 - Third Mate, Any Gross Tons.
 - Able Seaman, Unlimited.
 - Life long yachtsman.
 - Master of the "RC" since January 2010
 - Director of Marine Operations since 2014.

A life afloat...



Nice vessels, nice jobs...

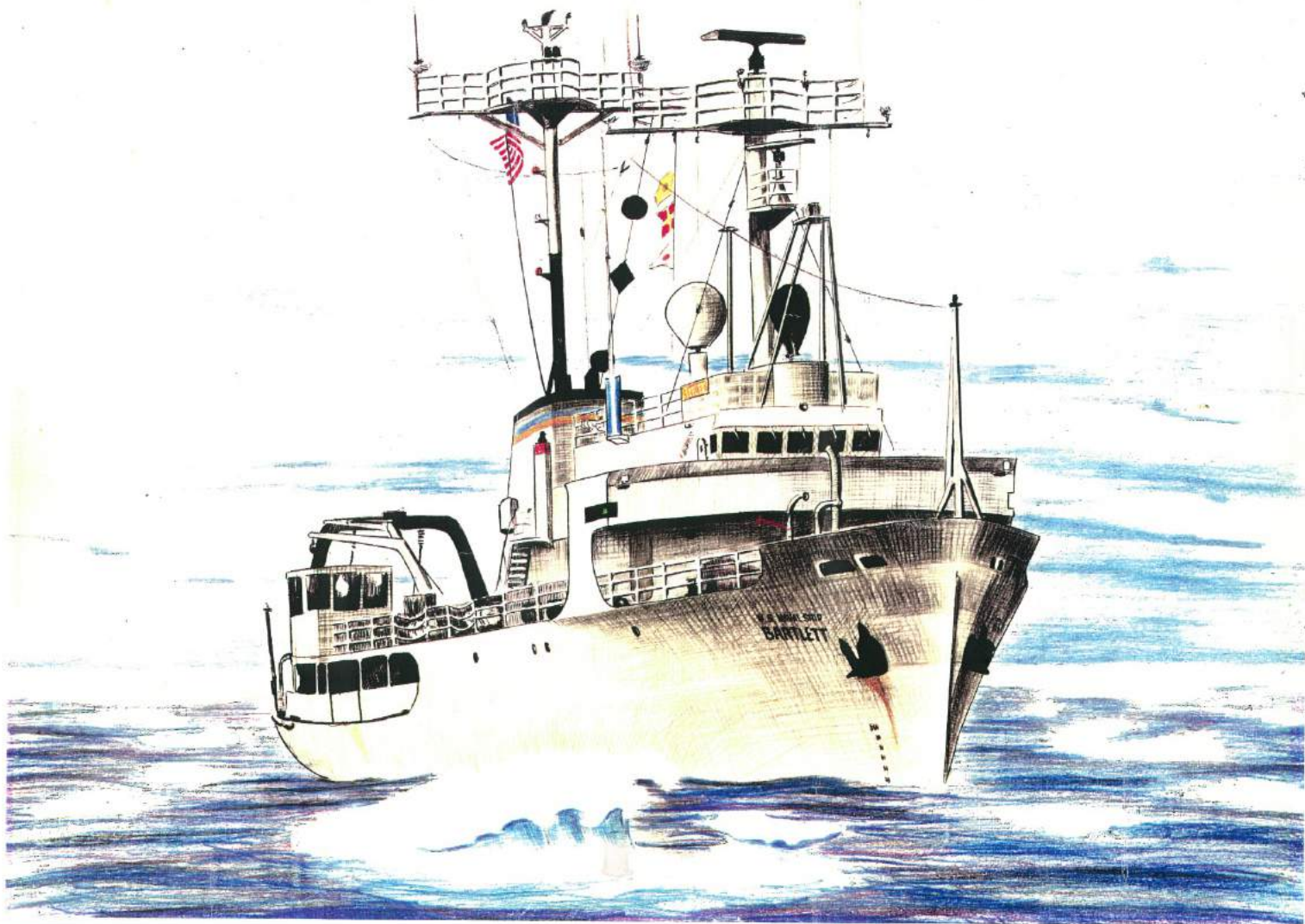












Hard work, long months away...





Seeing the world, meeting interesting folks! But...



I really needed a different job!







© USACE
MarineTraffic.com

2007.7.2

R/V *RACHEL CARSON*



University of Maryland

Center For Environmental Science

Research Fleet Operations

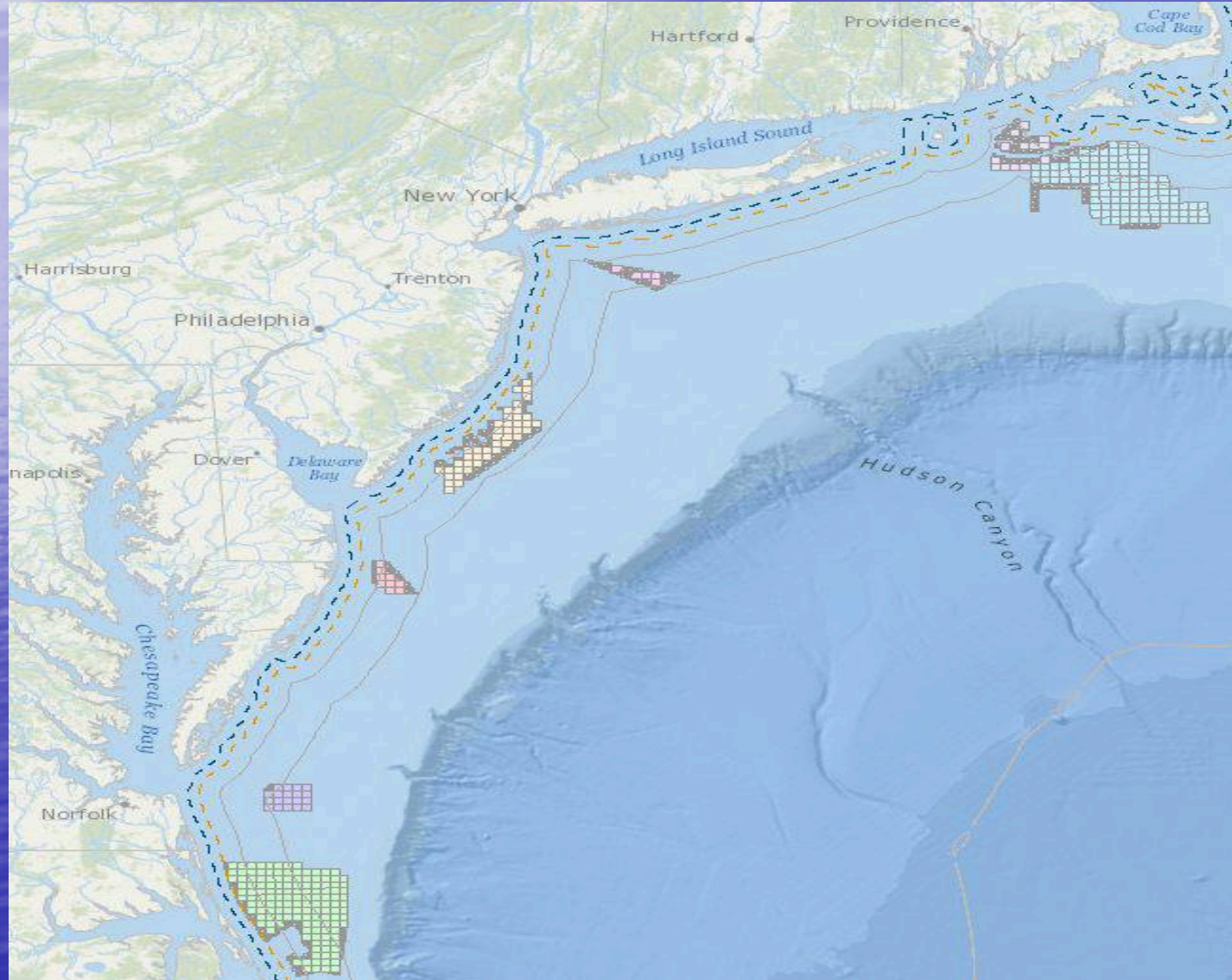
Solomons, Maryland

www.umces.edu

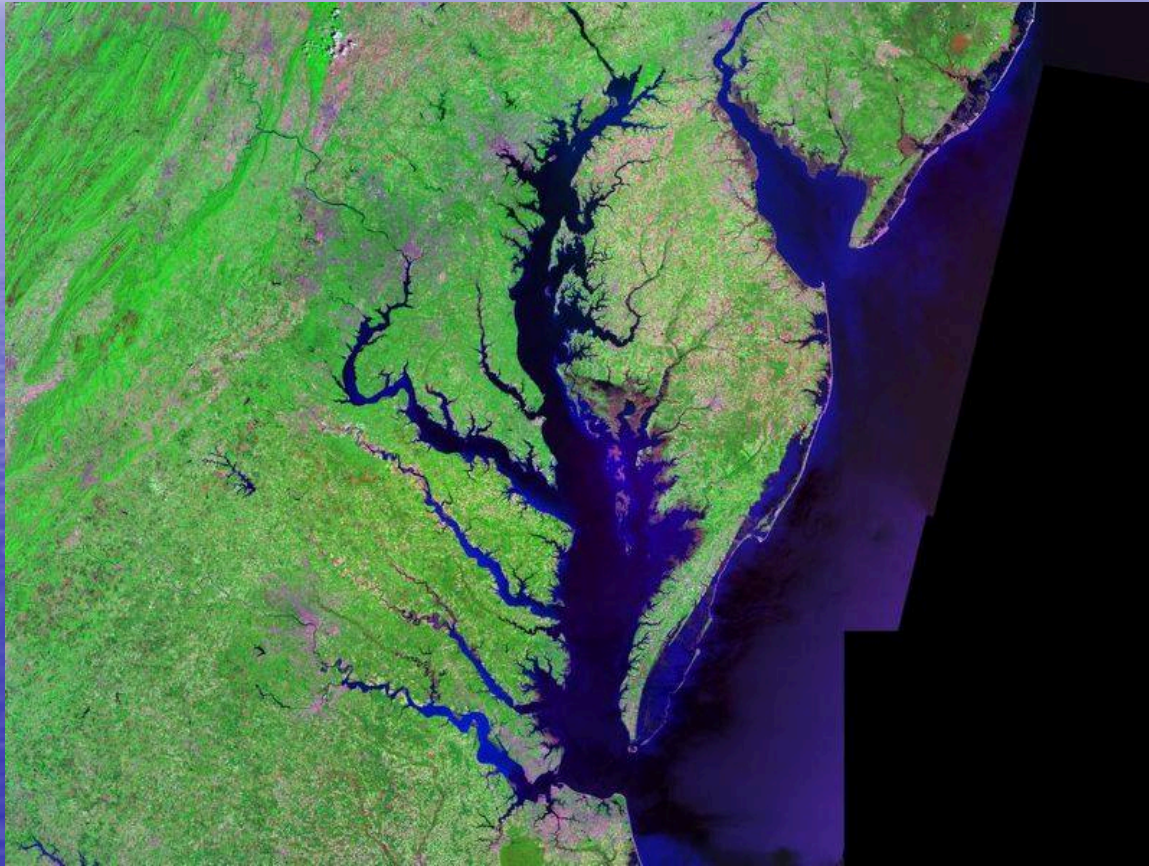
“Rachel Carson Research Vessel” on Facebook

“rvcarson” on Instagram

We sail the RC to where the science is...



...but she was built to work local waters to help better understand the Chesapeake Bay!









A quick tour of the vessel...



Vessel Stats:

Uninspected Oceanographic Research Vessel
Built in 2008 by Hike Metal Products

81' LOA

18' Beam

4'8" Draft

78 gross tons

0.1-23 knots

21 knot cruising

Twin MTU Diesel Engines

2,410 total horsepower

99 kw Northern Lights Generator

30 hp Wesmar electric Bow Thruster

Twin Hamilton Water Jet propulsion

Kongsberg Dynamic Position System

Full Navigation suite:

RADAR, AIS, GPS, Gyro; fluxgate; and satellite compass, Fathometer, VHF/SSB, chart plotter

Crew: Master, Mate, up to 25 passengers

Six berths in two staterooms

Two heads, shower

4,200 pound capacity Aft "A" Frame

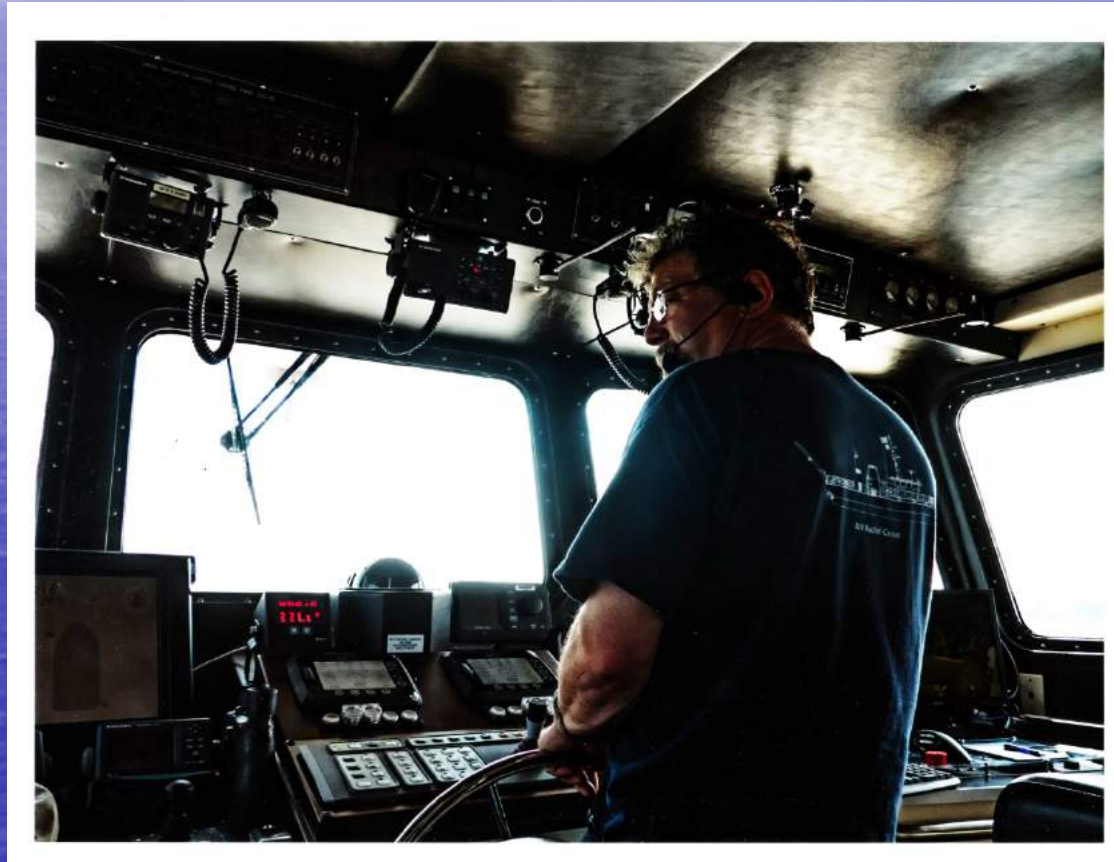
1,350 pound capacity Starboard "A" Frame

Two trawl winches

Wet and dry labs

At sea "Wi-Fi" , and TV

Hulme at helm...



Wheelhouse and helm



Dynamic Positioning System



Galley and Mess



Six berths in two staterooms...



Wet Lab



Main Engines, water jet, and shaft;



The Hamilton jets, inside and out...



Yea, those jets give her some gitty-up and go!



20+ knots!



On the hard...



A brief look at standard
research vessel operations:

Scientific Mid-Water Trawling



Counted and returned...



Some of these guys really love what they do!



Measuring the water column



Deploying a Physical Oceanographic Mooring



Mid-Project Mooring Maintenance





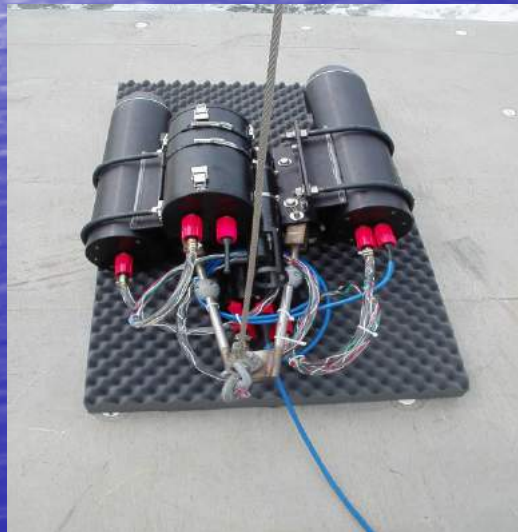
Coring and Grabbing



Mud, Ooze, and Slime...



Videoing Plankton aloft and alow...



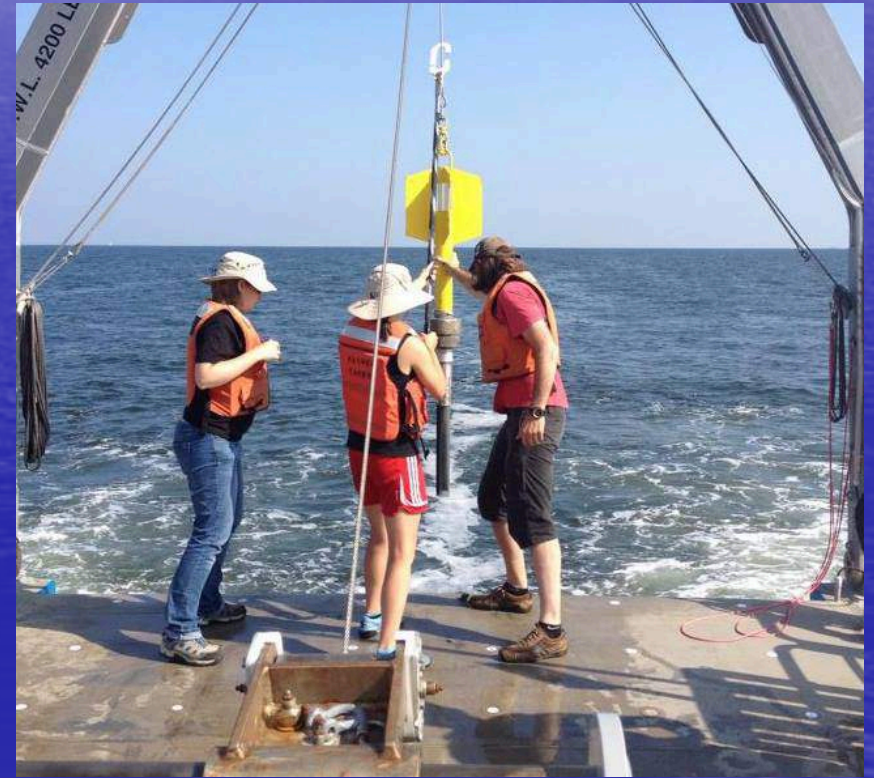
Undergraduate Training trip



Oyster Dredging...



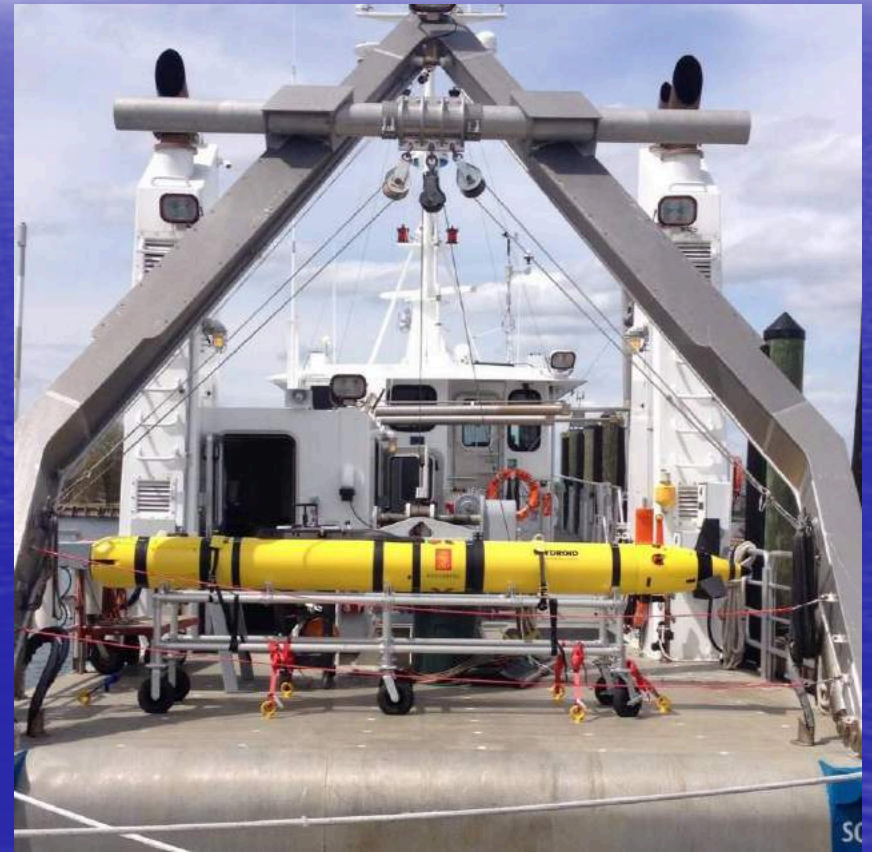
Lidar Survey and Gravity Core



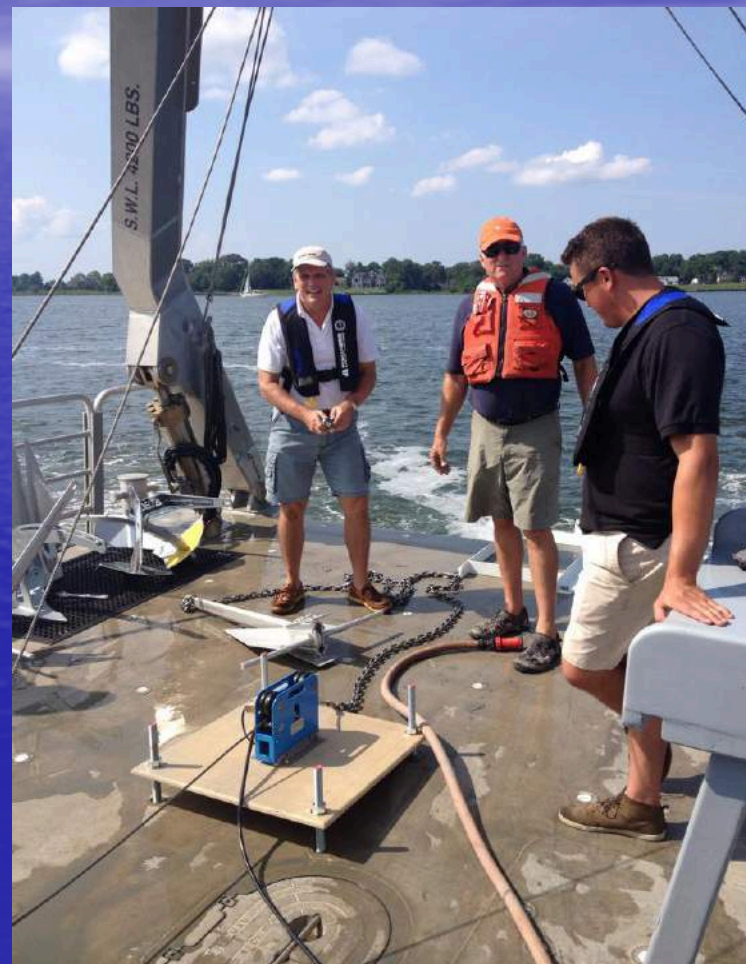
NAVAIR laser tower...



JHU/APL and HPL...



Fortress Marine Anchor test...



We even do boat shows...



Horn Point Lab Oyster Restoration Pier on the Choptank River



Doing the good work...

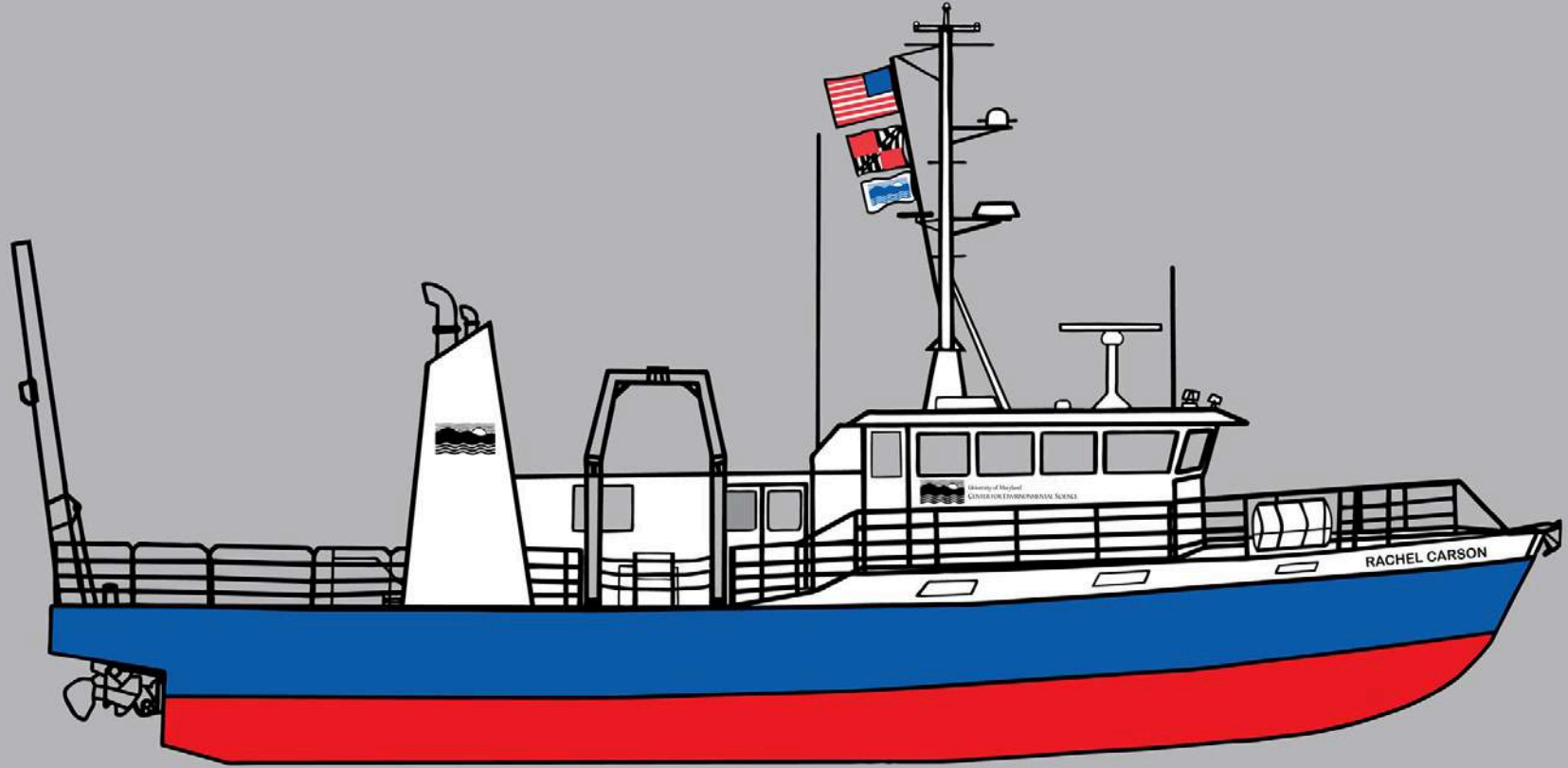


So underway, making way...



This is the future of good
seamanship!





R/V RACHEL CARSON