



R/V Rachel Carson



New Trolley Deployment System

2019 Status so far

23 Cruises 106 Sea Days 21 Shipyard Days

Present

- Integrated SCS acquisition
- Trolley Deployment system
- Temporary ADCP setup
- Temporary TSG setup

Future

- Fully integrated TSG/SSW system
- Permanent ADCP installation
- Multibeam installation
- Data Integration with R2R
- Implementation of LCI90s

Notable Achievements

- USGS cruise 36 days of sailing off the coast of Oregon
- Box coring off Columbia River

R/V Atlantis

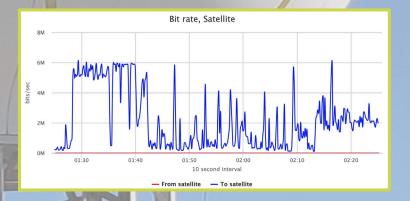
THE RADOME RELOCATION EXTRAVAGANZA AND THAT MAGICAL TIME WE HAD 6.5MB TO SHORE.









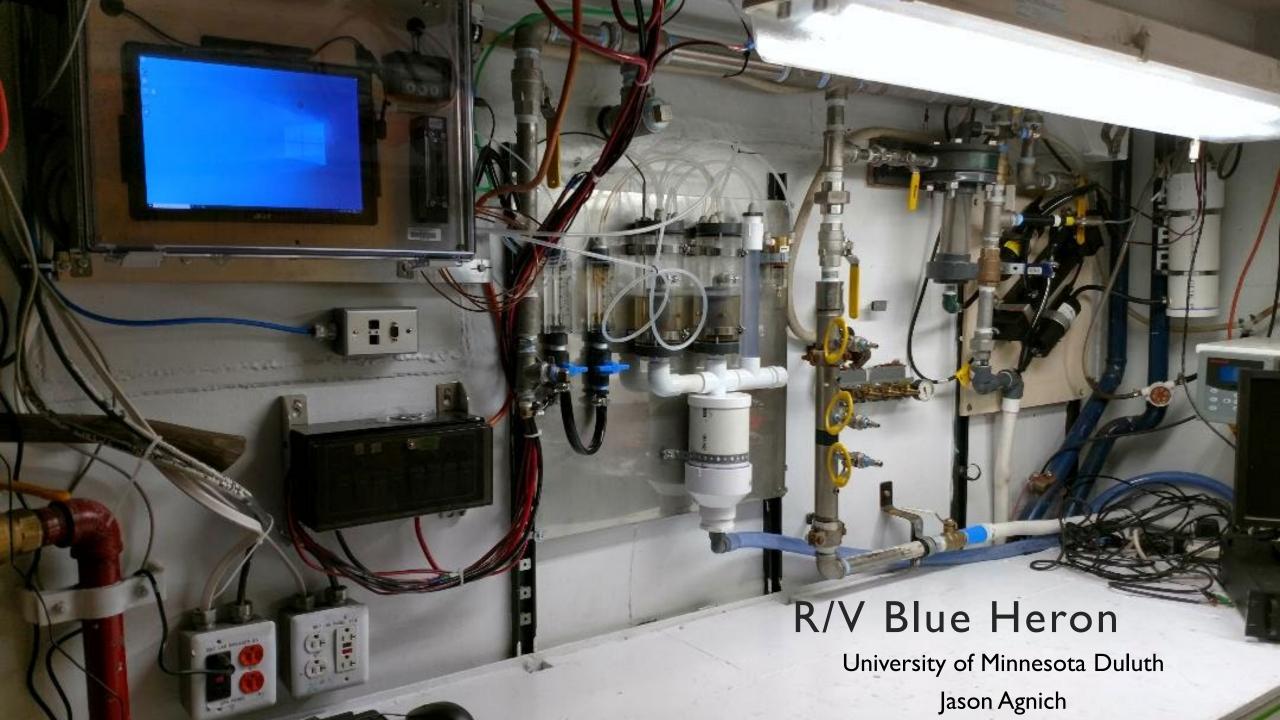


R/V Neil Armstrong

SBE32 pylon compromised via water intrusion; lost fish

communication with the MacGyver techniques Planes, trains, automobiles, heli, and ferries.... Google Eart Photos from: WHOI, Amy Simoneau, OOI, Hilary Palevsky

ArmstrongIntercept





ROV Lu'ukai









RV SAVANNAH



Current Projects:

- Alarm Notifications
 - Raspberry Pi
 - Programmed to send SMS messages when any alarm goes off
- Sub-bottom Profiler
 - Knudsen Chirp Model 3260
 - 3.5 kHz Transducers



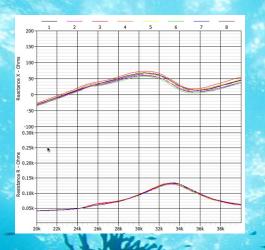




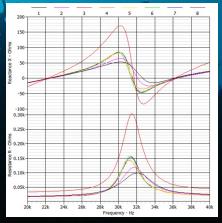
R/V Falkor

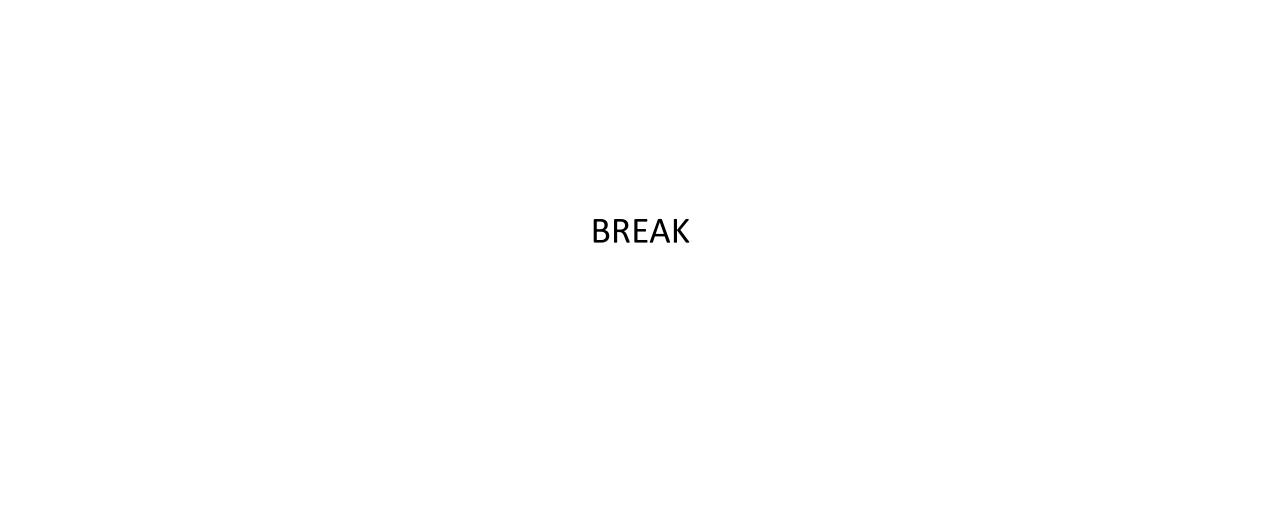
Transducer Antifouling Too Thick









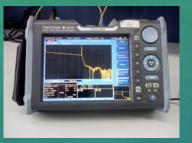








Dry Lab J-Box



OTDR



Slip Ring



Inside Slip Ring



Port Trawl Winch

CHRISTIAN KERNISAN UNIVERSITY OF DELAWARE R/V HUGH R. SHARP

- NOAA- Habcam (towed vehicle)
- Single Mode Fiber in .680 cable
- ST Connectors
- Issues with power/data retrieval
- OTDR (Optical Time Domain Reflectometer)
- Laser- Check the continuity
- Cleaned ST connectors
- Hot Melt to terminate new connector

In the near future:

- Re-fitting the ship with new fiber optic cables
- New slip ring
- New junction boxes

R/V Roger Revelle



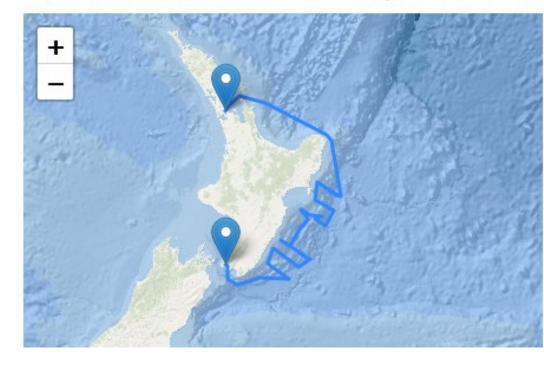
- 4 science cruises in 2019
 - New Zealand

- Mid-life Refit
 - Tear down during two transits
 - Vigor (Portland)
 - April 2019 April 2020
 - 1st Drydock phase complete



Cruise ID: RR1903 2/28/2019, 1:41:00 PM Thu, 28 Feb 2019 21:41:00 GMT

Data points interval: 5 minutes





R/V Sally Ride

AND DIEGO

- 14 science cruises in 2019
 - 1st crossing of the Pacific Ocean
 - Operating in Western Pacific & Indian Oceans since April 2019



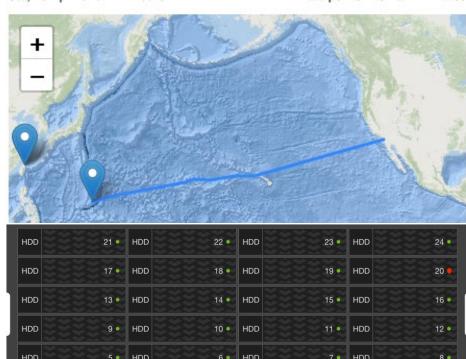
- Spares & drive failure while at sea
 - Replacement drive delivered to port agent in Taipei (August 2019)
 - Previously failed drive Seattle (July 2018)



Cruise ID: SR1906 4/13/2019, 3:47:59 PM Sat, 13 Apr 2019 22:47:59 GMT

Data points interval: 1 minutes

3 B 🏻





R/V Robert Gordon Sproul

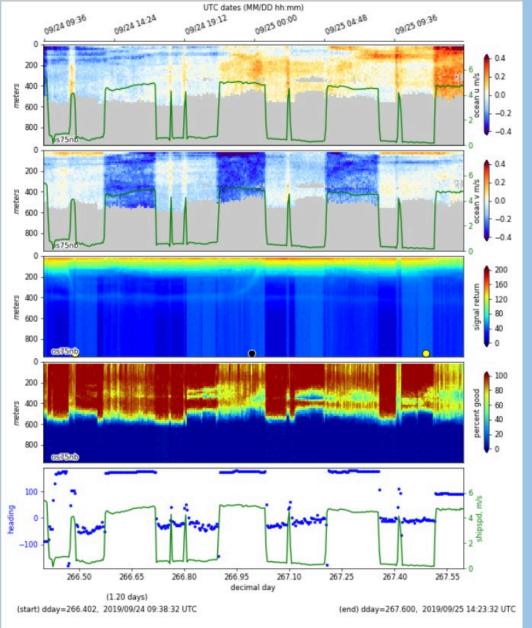
SAN DEGO

- 20 science cruises in 2019
 - Majority 1-4 day cruises off San Diego coast
 - 8-Day cruise in September near vessel's operational limits.
- Significant shipyard period
 - Completed in Jan 2019
- Replacement Instrument Van
 - Currently under construction
 - Electrical outfitting underway
 - Installation target Jan 2020



R/V Pelican, LUMCON

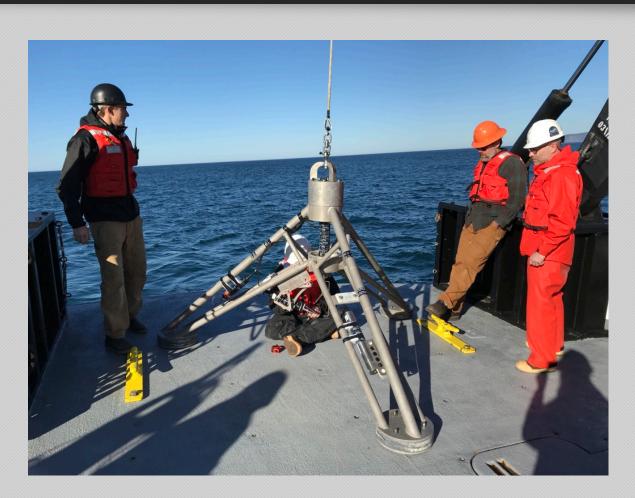


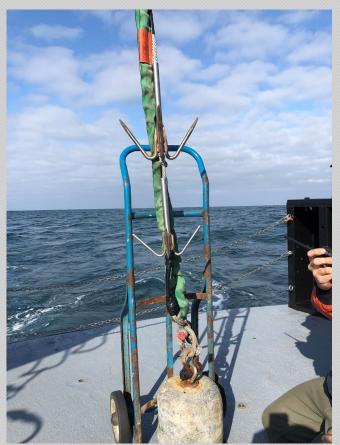


R/V Oceanus

Kate Kouba







Oregon State University Team



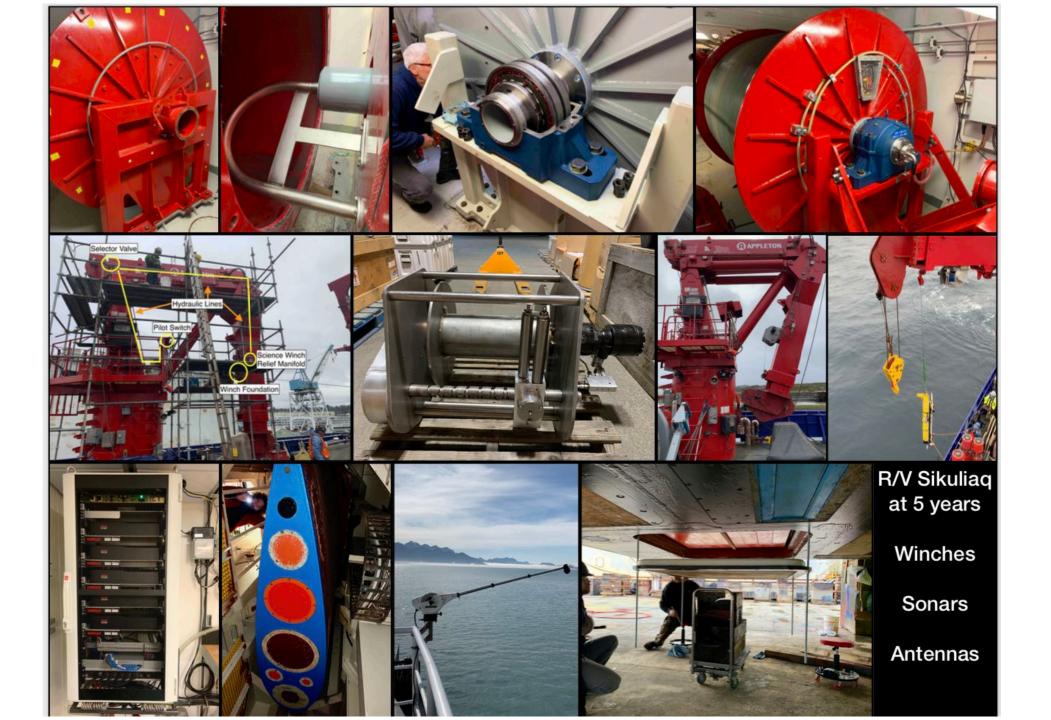
Kristin Beem

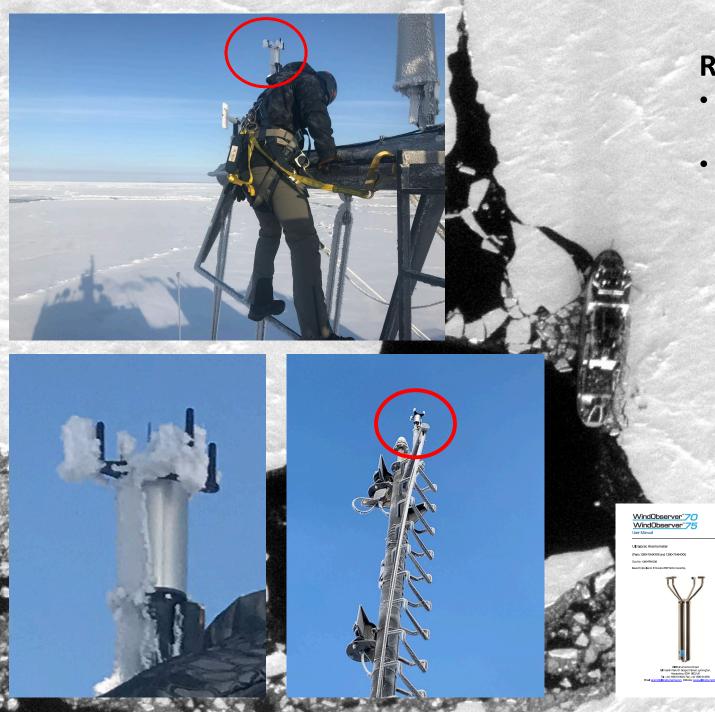


Andrew Woogen



Brandon D'Andrea





RM Young 85004 – Heated Ultrasonic

- More problematic this season than in past– environmental?
- 24 VDC, 60W max (2.5 amps)

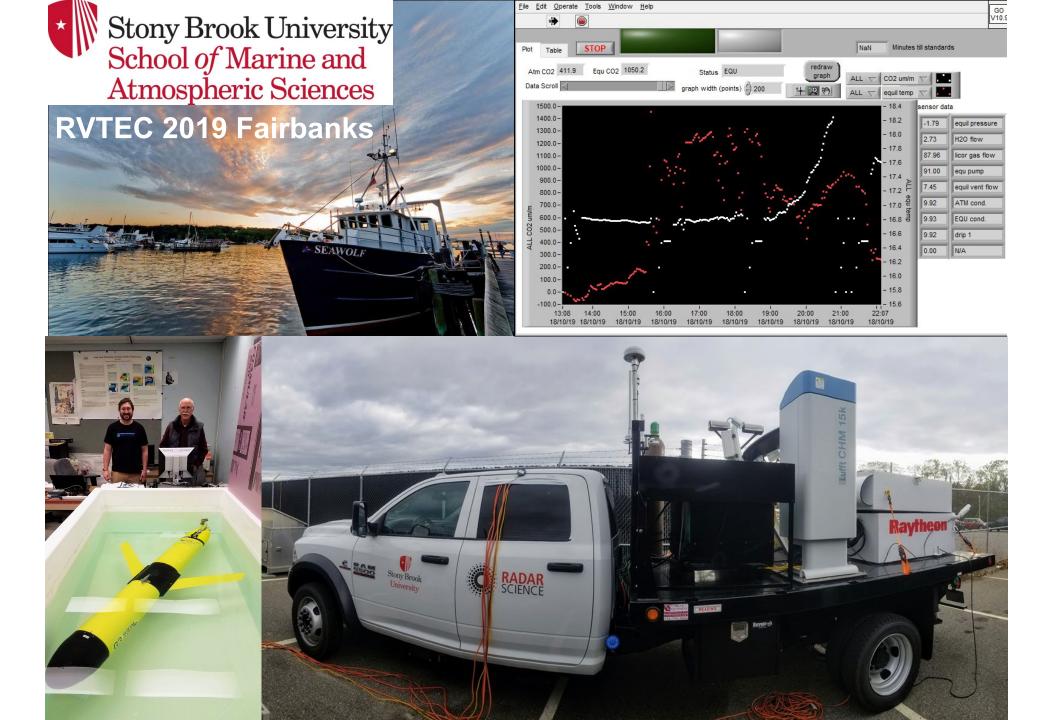
Troubleshooting:

- Verify heater voltage and power supply
- Put on warm clothes and climbing gear
- Warm up and Repeat

Lessons Learned:

- Bird deterrents = ice aggregators
- Dust brooms are good for clearing ice
- Plastic paint scrapers ok too









Technical Issue:

- Positioning 'drop outs'observed after POS MV V510.0 Firmware update
- Number of Satellites instantly drops from ~30 to ~6
- Occur for exactly 26 minutes a day, 4 minutes earlier each day
- Observed in generally the same area with different headings

Fix:

 Contact Applanix and Marinestar, subscription information "resent"

