

# Winter/Spring 2019 – AICC

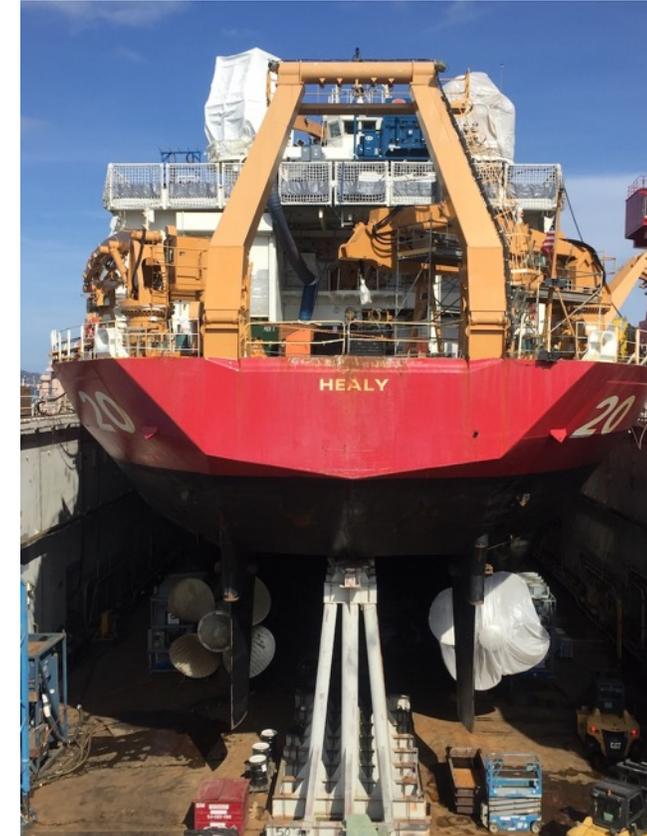


## STARC Report

15-Jan-2020

Presented by: Lee Ellett and Brendon Mendenhall

- 2019 Support
- 2020 Projects
- 2020 Science Planning



# 2019 Shakedown and Transits

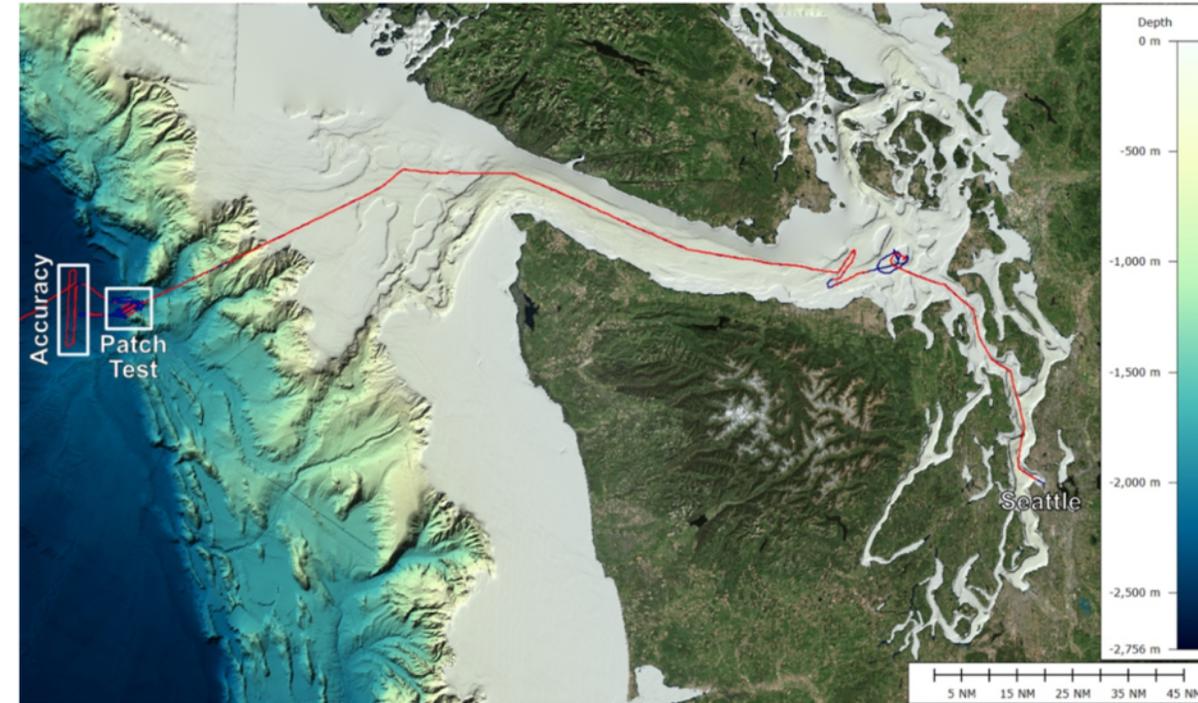


## HLY19TA - Shakedown July 8-10

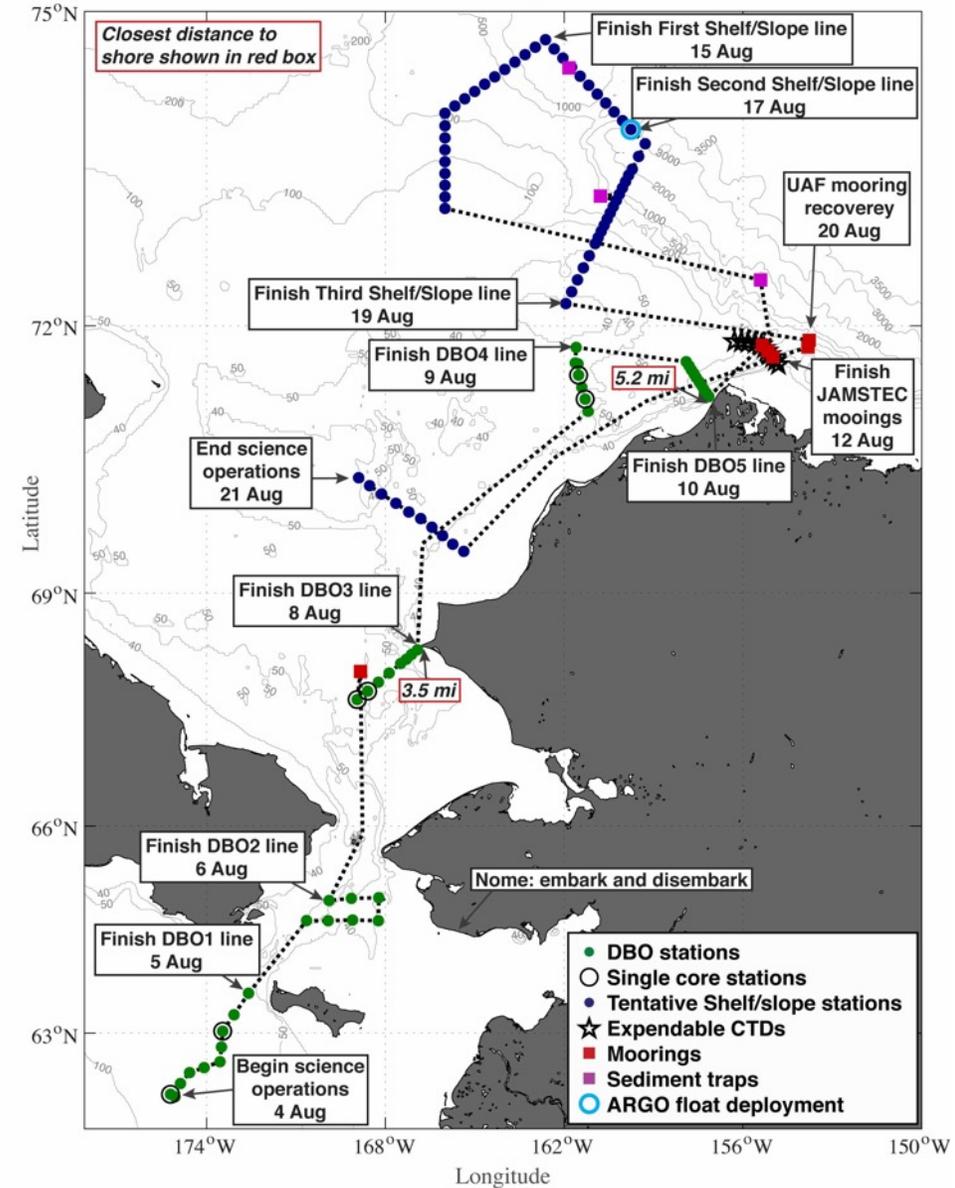
- CTD cast
- EM122 patch test
- Evaluation of science systems

## Transits HLY19TB – TD

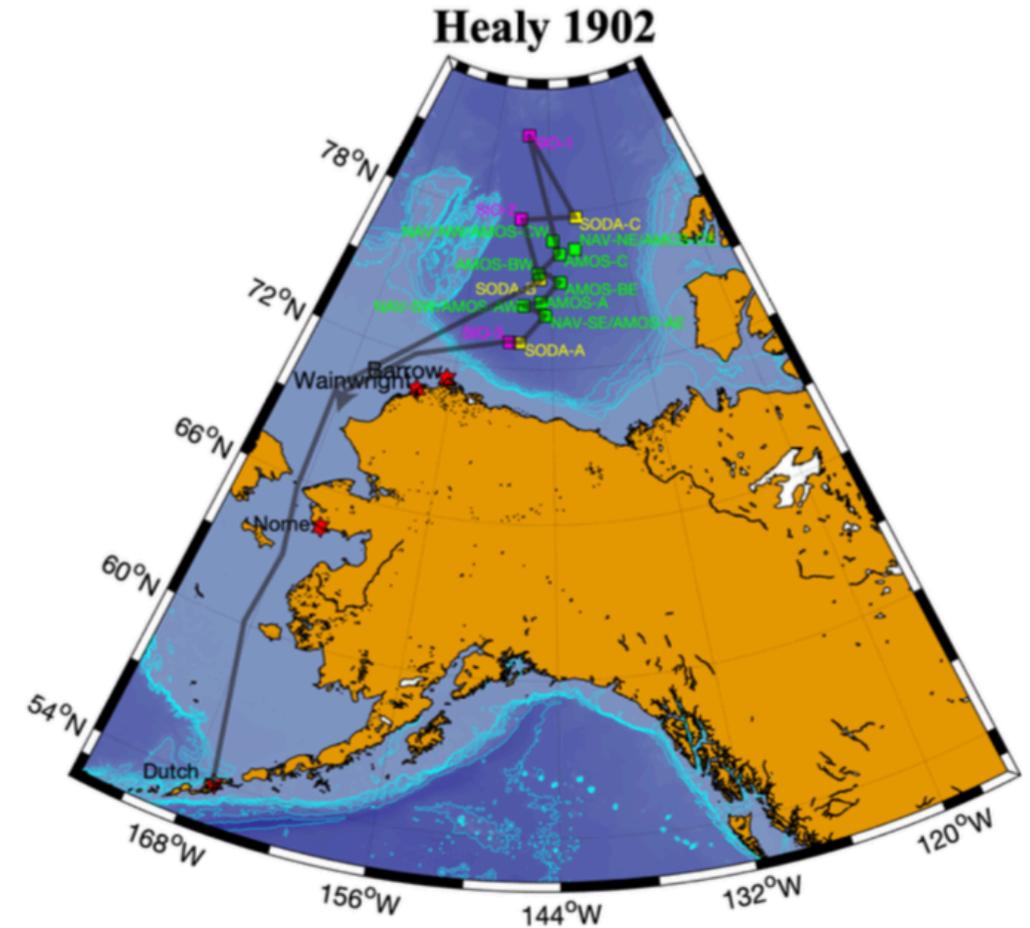
- Science system maintenance
- Training of new and recent STARC Technicians
- Gravity Tie (Kodiak)



- 2 CTD failures, successfully sent spare via air shipment to Nome
- Additional CTD with failed pressure port repaired at sea
- Meteorological air and wind sensor electronics failure, at sea repair implemented
- Test implementation fluorometer and transmissometer cleaning protocol



- Additional ice multibeam transducer impedance measurements taken
- Issues with freezing of ultrasonic wind sensors
- Use of new 12kHz transducer for mooring release work



# Recent and Current Activities

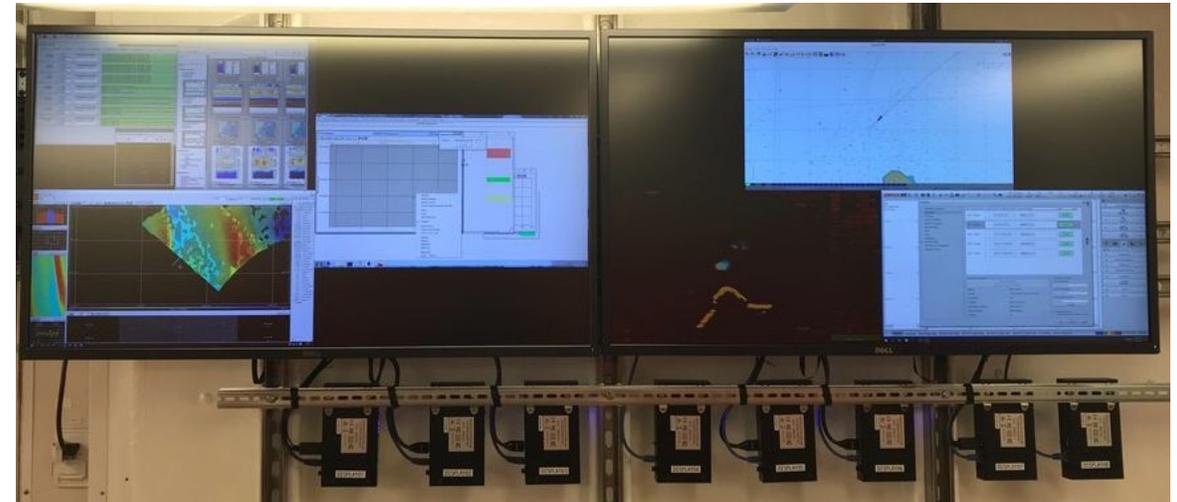


- Meteorological Sensors, CTD, and Science seawater sensors have been removed and sent out for calibration and/or repair
- Procure new multibeam workstation computers
- Potentially purchase 1-2 new science seawater fluorometers and dissolved oxygen sensor
- Potentially replace Milli-Q Advantage HPW system
- Begin to refurbish POLAR SEA/STAR CTD instruments for use on HEALY
- Install monitors and network video equipment that have been purchased

# Display improvements



- High resolution display and space saving design
- Easily change display options in multiple locations
  - No need for rewiring or display extenders to change display
- Multiple systems displays on single large screen (Main and Future Labs)
- Long term > broadcast any system display over network to any science location.
- More options for Bridge displays

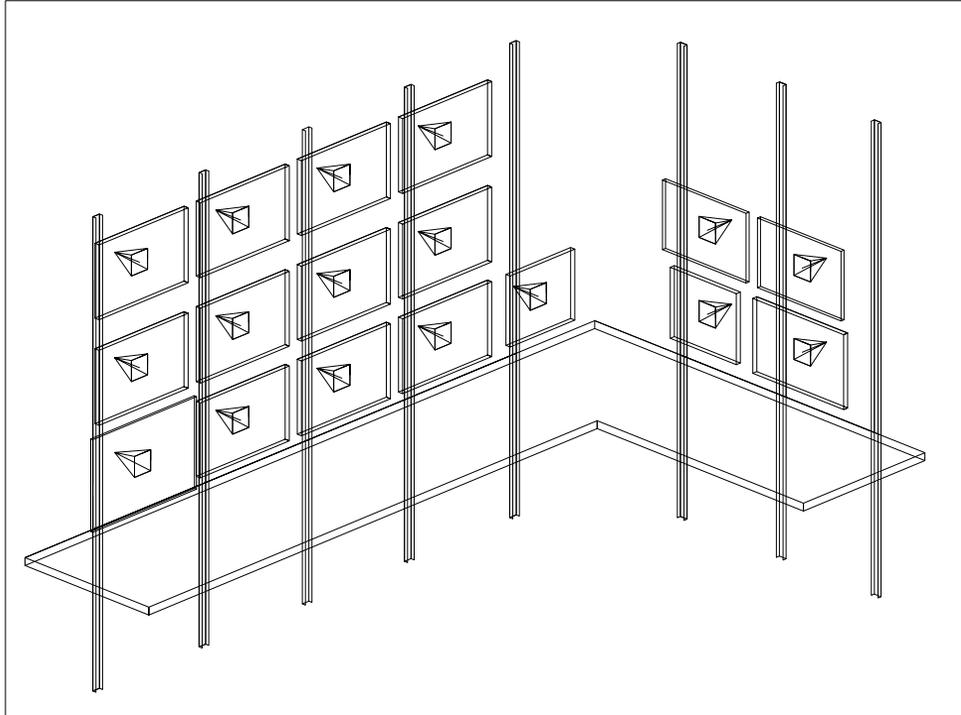


# Display improvements

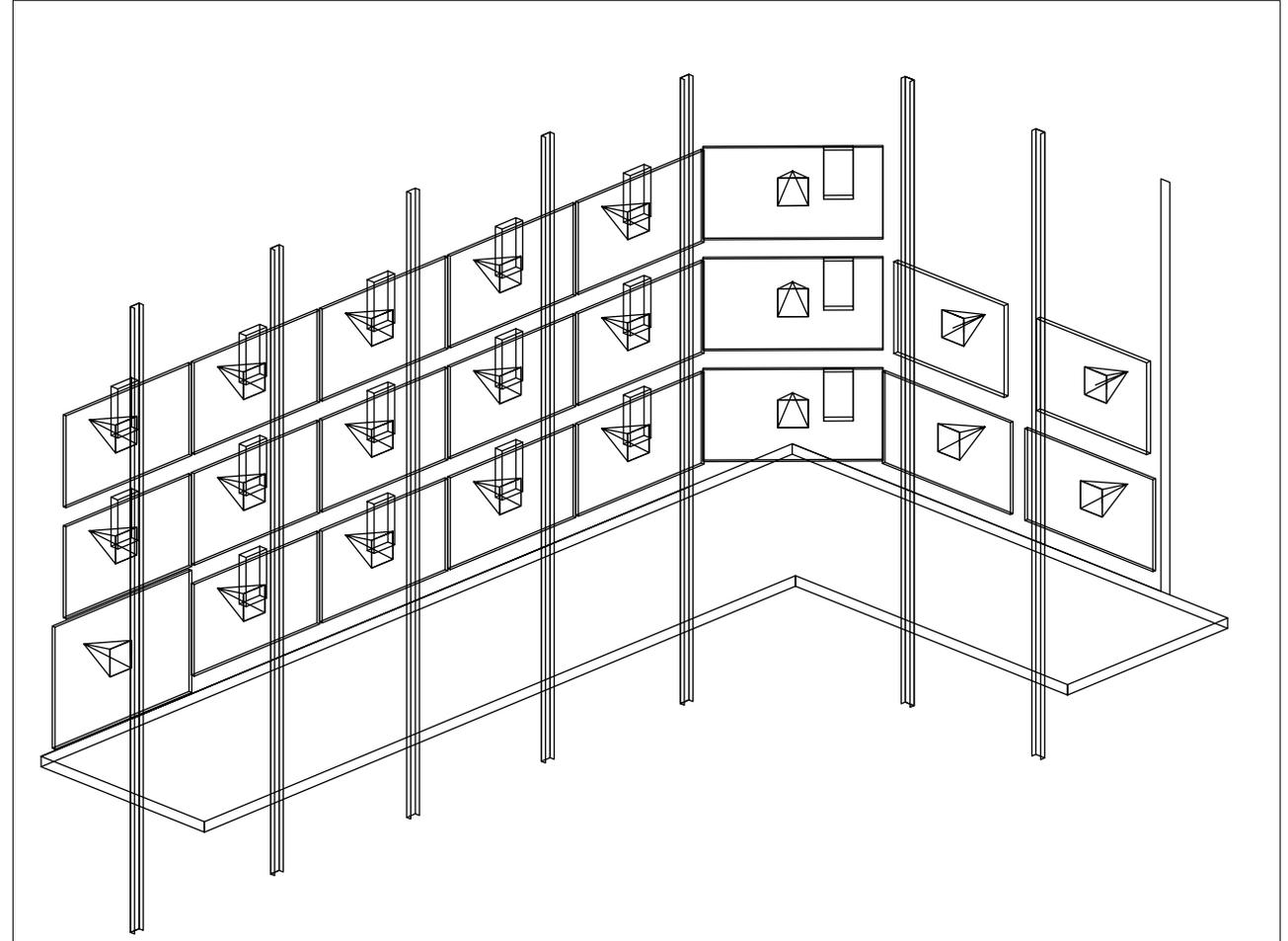


## Computer Lab

Existing monitor wall



Proposed Healy Computer Lab Monitor Wall





## Earth Analytic — SmartOcean Product

- A PO has been issued to install on shore-based computing cluster for testing
- Once testing is successful, move virtual mach to HEALY computing cluster for operational testing



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# 2020 Projects



HLY1901 – Dr. Bob Pickart

- Harmful Algal Bloom

HLY1902 – Dr. Matthew Dzieciuch

- Coordinated Arctic Acoustic Thermometry Experiment

HLY1903 – Dr. Craig Lee

- Arctic Mobile Observing System

# The End



# Thank you

# Questions ?