STARC Report
15-Jan-2020
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- 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)

UC San Diego
• 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 machine to HEALY computing cluster for operational testing

EARTH ANALYTIC specializes in science-based design, implementation, and management of geographic information systems for energy and conservation projects.
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
Thank you

Questions?