

STARC Report AICC Summer 2022



2022 Dockside Mobilization

2022 Shakedown

2023 Drydock Sonar

Outreach and Inclusion



NWP Science Party

Acknowledgements



National Science Foundation (**NSF**)

United States Coast Guard (**USCG**)

Arctic Icebreaker Coordinating Committee (**AICC**)

Multibeam Advisory Committee (**MAC**)

WHOI Potential Fields Pool Equipment (**PFPE**)

STARC University Partners (**SIO, OSU, UW**)



2022 Dockside Mobilization



CTD, SSW, and MET sensors

- Sensor calibrations completed and delivered

Science Seawater Water

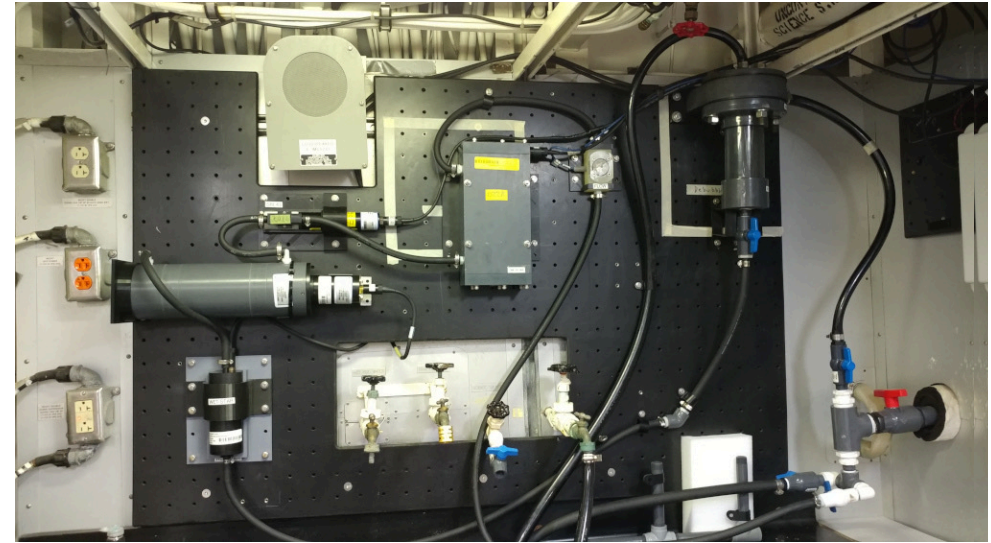
- Reconfigured water wall based on previous seasons observations
- Supported pCO2 and Picarro gas analyzer installations

Ultrasonic anemometer forward jackstaff

- Metek Omni 3D replaced

Oceanographic Wire

- Winch monitoring system support during winch and wire spooling operation
- Slip ring terminations and maintenance



Bio Analytical Lab SSW wall

2022 Mobilization & Shakedown



Computers and Data Management

- Software and hardware maintenance
- Virtual machine cluster maintenance
- Replace damaged machines and UPS units
- Audit automated STARC systems to meet cybersecurity requirements

Gravimeters

- BGM-3 gravimeter mobilization
- Additional testing to confirm sensor verification

Shakedown 2-legs

- Multibeam patch test complete
- ADCP calibration coordinated with UHDAS
- Acquisition systems operational



2023 Drydock Work Items



Transducer Well Deck Preservation

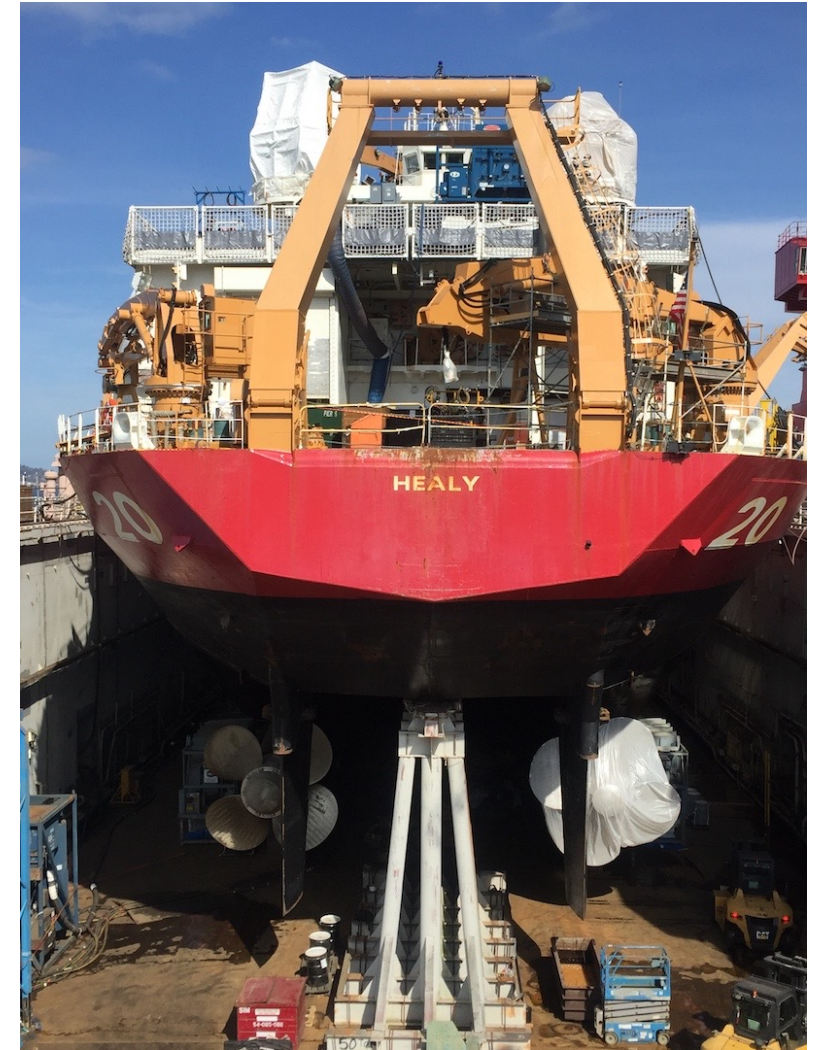
- 100% deck and 3" up bulkheads
- Transducer well exteriors and lids
- Request new ice windows for aux wells

Transducer Maintenance:

- All transducers will be removed
- Clean and preserve transducer well interiors
- Replace OS75 and OS150 ADCP transducers
- Install EK80 18kHz and 38kHz fishery sonars

Multibeam:

- EM122 RX array replacement
- Modify RX frame to install baffles



Healy high and dry

Outreach and Inclusion



Tours Ship Visits

Crew familiarization

Early Career Scientist

MATE new Techs

