

STARC

Ship-based Science Technical Support in the Arctic

An NSF award to enhance marine science and technical services provided to NSF-supported research cruises on U.S. Coast Guard cutters Healy, Polar Star and Polar Sea. Scripps Institution of Oceanography and Oregon State University are working together in a joint venture to provide basic services to the level provided by the University-National Oceanographic Laboratory System (UNOLS) for supporting academic research.



Healy – Science support

EM122 Multibeam

Knudsen Echosounder

ADCP 75/150khz system

GPS receivers

MET and Science seawater sensors

CTD equipment and sensors

XBT equipment

Gravity Meters

Lab equipment

Hazmat / Isotope procedures and compliance

ICEFLOE.NET administration

Maintenance / Mar-Jul 2012

MET sensor repair / calibration

MET acquisition computer repairs / maintenance

Science seawater sensor repair / calibration

CTD sensors recalibration

CTD cart and track repair / maintenance

Lab Milli-Q DI water system maintenance (two units)

XBT probe replacement / hardware maintenance

EM122 computer repairs

POS MV repairs and upgrades

Salinometer repair / maintenance

Shakedown cruise

Verify all science related systems are operational to include:

EM122 Multibeam / Knudsen Echosounder / ADCP testing

CTD / Rosette / XBT system testing

Winch wire and A-Frame testing

POS MV / GPS receiver testing

MET / Science seawater sensor testing

Lab DI Water system / Fume Hood / Freezer / Refer testing

Salinometer testing

Work with ESU to checkout all science network related equipment

Healy – Drydock 2013

Work with the Coast Guard and Shipyard to ensure access to science related systems and equipment for repairs, maintenance and completion of outstanding science TCTO projects.

EM122 / Knudsen / Transducer repairs and maintenance

TSG / PCO2 relocation project

Computer Lab renovation project

Future Lab renovation project

Photo Lab renovation project

Routine sensor / equipment maintenance



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 - [Meeting Schedule](#)
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Current Science infrastructure projects

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Computer Lab Renovation

PDF with current SOW- dated Dec 2011
 1/10/2012 - SOW attached to a TCTO.
Computer Lab TCTO

TSG / pCO2 System Relocation

PDF with current design- document last revised Oct 2011
 1/10/2012 - project in final stages of approval process with SFLC
 1/27/2012 - project approved
Final TSG spec PDF

Winch display upgrade

PDF with MTNW proposal dated Nov 2010
 1/10/2012 - project in final stages of approval process with SFLC

Future Lab Renovation

PDF with proposal dated Nov 2011
 1/3/2012 - Proposal rewritten as a TCTO.
TCTO for Future Lab

Photo Lab Renovation

PDF with proposal dated Nov 2011

ADCP system - permanent location change

PDF drawing
 1/5/2012 - Proposed relocation work approved by SFLC and ship's crew will begin the welding and electrical work while the ship is at sea.

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