

A sunset over a body of water with a ship's deck visible in the foreground. The sun is low on the horizon, casting a warm glow across the sky and water. The ship's deck is visible in the foreground, with various equipment and structures. The overall scene is serene and captures the beauty of the Arctic environment.

STARC

**Ship-Based Science Technical Support in the
Arctic**

**2012
Year in Review**

HLY1201

Dr. Jackie Grebmeier

Bureau of Ocean Energy Management

Hanna Shoal Ecosystem Study

STARC(Hiller, Roberts, Martin):
thermosalinograph, CO2 partial pressure,
meteorology, CTD, GPS, multibeam, acoustic
current doppler profiler, sub-bottom echo sounder,
mapping, gravimeters, expendable
bathythermograph

2012/08/17 15:17



HLY1202

Dr. Larry Mayer

Extended Continental Shelf Mapping in the Nautilus Basin

STARC (Roberts) : thermosalinograph, CO2 partial pressure, meteorology, CTD, POS MV, multibeam, acoustic current doppler profiler, sub-bottom echo sounder, mapping, gravimeters, expendable bathythermograph.

HLY1203

Robert Pickart

Assessing the Western Arctic Boundary Current

STARC (Roberts, Martin, Arnesen):
thermosalinograph, CO₂ partial pressure,
meteorology, CTD, GPS, multi-beam
mapping, acoustic current doppler profiler,
sub-bottom echo sounder, mapping,
gravimeters, expendable bathythermograph.

HLY12Tx

- Shakedown
- Transit to Dutch Harbor

STARC: Prepare, initialize, and test the resident science equipment suite.

2012/08/04 13:00

STARC Challenges: 2012

- CTD winch wire
- CTD hard landings
- ADCP noise testing
- POS MV
- Winch displays
- 3 party operations communications (on the fly; i.e. starboard drains)
- Aft scoreboard flooding

Highlights

- Improved Coast Guard / Science / STARC communications
- Coast Guard Boatswain department involvement
- New Met computer system, new pCO₂ computers
- New MET display in aft-staging bay
- New MET display on the Bridge