2012 Icebreaker Session

RVTEC Annual Meeting
February 11-15, 2013
R/V Walton Smith
R/V Clifford A. Barnes

Stephen Jalickee
R/V Clifford A Barnes, UW

- 144 Sea Days
- 48 Maintenance days

- Knudsen 320M Chirp replacement options?

- UnderSee Explorer for single beam mapping.
- ADCP Workhorse 600 kHz installed (awaiting sea trials)
- Computer Upgrade early in planning stages
R/V Thomas G. Thompson

Patrick A’Hearn
R/V Thomas G Thompson, UW

- 225 successful sea days
- 44 transit days
- 131 days lost

July 23rd the starboard z-drive failure.

- SIS Gridding Issues (ongoing)
- Antiquated DAS (ongoing)
- Met System Upgrade (ongoing)
- HiSeasNet Updated (completed!)
R/V Atlantis

Allison Heater
R/V Knorr

Robbie Laird
R/V Blue Heron
R/V Cape Hatteras

Tina Thomas
Nov 20th (2 days before Thanksgiving) MOB for the final cruise of the year in the Gulf of Maine

Custom CTD frame with SBE 9, Optical Plankton Counter, and Video Plankton recorder required all three conductors of .322 cable

Crisis! (1 of 2)... Low insulation resistance on two of our .322 conductors (~8 megohms)

- Began splitting the system to find the faulty component (please don’t let it be the reel!)
- Low IR would periodically go away. Very puzzling
- Damaged slip rings

Crisis! (2 of 2)... OPC telemetry requires 75-125 Ohms loop resistance

- Both of Endeavor’s .322 winches have over 9000m reels with ~350 Ohm loop resistance
- We need to have <3500m
- Thanksgiving is tomorrow followed by a long holiday weekend

Option A) Reel out 6000m, cut and re-terminate
Option B) Modify our 1/4” reel to accept a short piece of .322
Option C) Borrow a winch and short piece of wire from the WHOI winch pool
R/V Hugh R. Sharp

Ted Cummiskey
R/V Hugh R. Sharp
R/V Kilo Moana

Scott Ferguson
All pumps were in one Pump Room in each hull
• Breach occurred in the starboard pump room
• Hull plate thickness is 0.600-inch
• The suction limit of sea water is 33 feet
• The Main Deck is 39 feet above keel

CAUSES?
• Galvanic corrosion
• Electric cell during high velocity flow
• Erosion
• Stray currents
• Other sites, only slight pitting

TECHNICIANS’ RESPONSE
• Make lemonade, use the two-month period while the Kilo Moana was offline to deal with a host of maintenance issues
R/V New Horizon
R/V Melville
Mary Huey
operation area:
San Diego, CA · Port Hueneme, CA · Newport, OR

days at sea:
146

projects:
CalCOFI · mooring work · coring · hydrography · acoustics studies · biological sampling · instrument testing · UNOLS training

highlight of the year:
increased automation of cruise data aggregation

challenge of the year:
cruise adjustment logistics following engineering repairs
operation area:
- South Africa
- Chile
- Ecuador
- California
- Hawaii

projects:
- mooring work
- seismics
- magnetometer surveys
- dredging
- coring
- AUV operations
- ROV operations
- multibeam surveys
- hydrography
- biological sampling

highlight of the year:
platform for ROV *Trident* operations

challenge of the year:
Ocean Surveyor ADCP transducer and deck unit issues and replacement
R/V Robert Gordon Sproul
R/V Roger Revelle

Brent De Vries
operation area:
Coastal California

days at sea:
45

projects:
SIO student education cruises · Ecological Transitions in the California Current Ecosystem · CCE-LTER · Developing and Improving Scripps Shallow Water Mapping Capability

highlight of the year:
Navy UAS (Unmanned Aerial System) testing

challenge of the year:
removal of A-frame for UAS testing
operation area:
- Indian Ocean
- Southern Ocean
- Philippine Sea
- Vietnam
- South Pacific

days at sea:
292

projects:
- DYNAMO moorings
- The Great Cocco Belt
- Lamon Bay Study
- Vietnam diplomatic visit
- Internal Waves/Mixing in the Samoa Passage
- Tonga Trench Microbes Study
- NOAA-VENTS ROV Undersea Hydrothermal Venting Exploration
- AUV testing

highlight of the year:
video streaming of ROV ops

challenge of the year:
relocation of the HiSeasNet radome
R/V Pelican
R/V Point Sur
R/V Savannah
R/V Oceanus

Erik Arneson
Oregon State University
Marine Technician Group
Year In Review

2012

- 156 Sea Days
  - Oregon
  - Ca/Wa/Canada
  - 128 NSF
  - 22 NOAA
  - 6 INST

- Highlights
  - "New" ship
  - Panama Canal

- Difficulties
  - "New" ship
  - Emergency shipyard
  - Deep Sea Winch
  - DAS
R/V Langseth

Lisa Hawkins
NOAA Vessels

Douglas Perry
USCG Vessel: Healy

Sarah Kaye
High Latitude Data: Multimodal is key
Nathaniel B. Palmer

Ross Hein
R/V Falkor

Colleen Peters
RV Falkor

Marine Technician
Colleen Peters
The Great Debate

A hose clamp or hose clip is a device used to attach and seal a hose onto a fitting such as a barb or nib.

http://en.wikipedia.org/wiki/Hose_clamp

A Jubilee Clip is a a circular metal band or strip combined with a worn gear fixed to one end. It is designed to hold soft, pliable hose onto a rigid circular pipe (or sometimes a solid spigot) of smaller diameter.

R/V Weatherbird II
R/V Seawolf

Tom Wilson
SEA Vessels

Mary Engels