

L-DEO Office of Marine Operations:  
UNOLS FIC Meeting  
March 5, 2013  
SIO, San Diego, CA



Lamont-Doherty Earth Observatory  
COLUMBIA UNIVERSITY | EARTH INSTITUTE

## Outline:

1. OMO Office Update
2. 2013 Schedule – Atlantic Ocean
3. Possible 2014-2015 Projects
4. Update on Glosten Winch Plan
5. Maintenance Period Updates
6. SSSE and Ocean Instrumentation  
Proposal Review

## OMO Office Activities:

1. Maritime Union Negotiations almost complete for next 5-years.
2. Export Control Licenses & Technology Control Plans now moving forward at CU/LDEO (Gravimeter/POS-MV)
3. Contracts/Permitting 3<sup>rd</sup> Party Science-PGE & SONGS Projects. PG&E Cancelled and SONGS postponed
4. Germany- Seismic surveys – NE Atlantic (Fall 2013)?  
Canadian Geo. Survey- Hudson Bay/Strait (Fall 2015)?
5. Syntrak Spare Electronics shipment arrived from Western-Geco in Norway – Provides 100% spares for ship and possible 2<sup>nd</sup> portable system as well.
6. Discussions with ION and others ongoing for possible seismic system upgrades, etc.
7. Hosted RVTEC – February, 2013 --~90-100 Attendees.

## 2013 Science Schedule (~187 Operating days)

- *January/February- Maintenance*
- *March: Transit to Galveston, TX*
- *April/May: Canales- Mid-Atlantic Ridge (Bermuda to Azores)*
- *June/July: Sawyer- Galacia Basin– (Vigo to Vigo, Spain)*
- *July/August: Hey– S. Reykjavik Ridge – (Reykjavik to Reykjavik)*

### RFP Pending:

- *Sept/October: BGR- Svalbard Margin - (Reykjavik to Reykjavik) ?? ~30-40 days 2D Seismic*

## Possible Atlantic Projects for 2014-2015

- Canadian Geological Survey – Hudson Bay (~25-35 days) –Fall 2015
- USGS Cruises –Extended Continental Shelf (ECS) Mapping Project possible on Atlantic Coast in 2014 and 2015
- Geoprism Project -- Fall 2014
- New Jersey Margin 3D, etc. in Summer 2014

# *Glosten Winch Plan Implementation*

## *Update on Glosten Winch Plan:*

- Decision made by NSF to re-deploy R/V Wecoma CTD and coring winches and mid-ship's crane to Langseth. Installation begins in late 2013. New winch control house to be installed in new mid-ship location following final equipment layout design in late 2013
- Bridge ship check by Glosten and Jenson Marine for modifications – Goal is to improve visibility on port and starboard. Also includes bridge improvements (eg. Adding head to bridge)

On right, photo of Langseth leaving OSU Marine Facility on Feb.27 for transit to Atlantic.



# Maintenance Update- Winter 2013

## ***Maintenance Highlights:***

### *Ship Systems:*

- New Oil Water Separator and Scrubbers
- Ariel Compressor repairs and vibration testing
- Deck, engine room fans, and laundry vent repairs
- MG Set evaluation and installation of new power management controllers.
- *Propulsion clutch control system repairs*
- *Wireless controls deck hydraulics*
- *Effer crane repairs*
- *ABS and USCG Annuals –Completed COI*
- *Cooling system heat exchangers major service*

### *Science Systems*

- Additional 30kv of targeted UPS added in lab –
- Seismic Acoustics upgraded from SIPS to DigiRange
- Streamer Reel 4 gearbox repaired and other reels evaluated
- Computer network upgraded
- Pinger pole constructed and installed

## 2013 SSSE Proposal Projects:

### OMO Priority:

- |  |            |
|--|------------|
| 1. PA System Replacement                             | \$ 210,124 |
| 2. Science Workboat Davit Replacement                | \$129,644  |
| 3. Wireless controls/valves (A-Frame, capstans,etc.) | \$ 92,213  |
| (Completes wireless control system)                  |            |

**OMO Request: \$431,981**



# 2013 Ocean Instrumentation Proposal

## 2013 Ocean Instrumentation Funded Projects:

### OMO Priority:

- |  |           |
|--|-----------|
| 1) BARO-16 Vane swap (\$20K) and associated hardware (3) | \$ 64,000 |
| 2) 50%-Doors for improving towing Source Arrays (3)      | \$ 22,000 |

OMO Funded: \$86,000