

R/V Marcus G. Langseth



MLSOC Summer Web Meeting — August 6, 2015
L-DEO Office of Marine Operations

Lamont-Doherty Earth Observatory
COLUMBIA UNIVERSITY | EARTH INSTITUTE

NSF Ship Inspection, Brooklyn, NY (May 19-21)

JMS INSPECTOR'S SUMMARY:

The R/V MARCUS G. LANGSETH is being maintained in a condition which meets or exceeds the standards typically expected of a research vessel of this size and service. The vessel is in compliance with the UNOLS Research Vessel Safety Standards except as noted. Several areas for improvement were also noted for attention during the inspection.

Maintenance/Inspections at SUNY Maritime Pier (July)

Compressor Maintenance

Auxiliary Generator Repairs—Cummins Diesel

Workboat Davit Hydraulics Completed— Commissioning Pending w/vendor

Install of 6 new Fire Dampers

Other General Repairs

Annual ABS ISM – Ship and Shoreside Audits Completed in June/July

Entraining young scientists in amphibious seismology through the Eastern North American Margin Community Seismic Experiment

One of the goals of the GeoPRISMS Eastern North American Margin (ENAM) Community Seismic Experiment (CSE) was to involve students and young scientists in acquiring the diverse onshore/offshore, active/passive seismic datasets involved in this program and to provide them with training in data collection, analysis, and interpretation.

We held data processing workshops in seismic reflection analysis at LDEO from June 22nd to June 29th. Donna Shillington (LDEO), Anne Bécel (LDEO), and Matt Hornbach (SMU) were the instructors of this 8-day-long, intensive class in MCS processing using the ENAM data. As with the field work, we advertised the opportunity to participate in these programs through listservs and received an enormous number of applications (e.g., ~80 people applied for the MCS workshop). Fourteen people participated in the course. The class included a combination of lectures on the fundamentals of seismic data acquisition and analysis and hands-on data analysis using the commercial seismic processing software, Paradigm Echos. Each student fully processed one line from raw shot gathers to a post-stack time migrated image. The hands-on experience in data acquisition and analysis will be hugely beneficial to these students in developing and broadening their geophysical skill set.



Participants in MCS training workshop processing reflection data

FINAL Langseth 2015 and Early 2016 Schedule

- USGS ATLANTIC ECS Project–Part 2- (April 8- May 4)
- NSF- NJ Margin 3D (May 22-July 8)
- NOAA-UNH MB –ECS Project (July 29- August28)
- NSF- Freshwater – (Evans/Key) – Sept. 1-15
- Sercel Streamer Installation- (Sept.16-Oct.19)
- Transit to Santorini (Oct 24- Nov.13)
- NSF - Santorini OBS – (Nov. 14 to Dec. 16)
- Transit to Cape Verde (Dec.17-29)
- NSF –Reece 2D/OBS –S.Atlantic – (Dec.31-Feb.24)

2016

- NSF-NERC- Rychert Passive OBS Deployment- Cape Verde – (Feb.25-April 1)
- Transit from Cape Verde to Iquique,Chile- April 2-18
- NSF - Trehu – Final Dates Pending- April- June

NOAA-UNH Multibeam ECS Project Update

~12,000km planned along 35 lines at 15km spacing
and ~2000km completed so far



MultiSeis

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