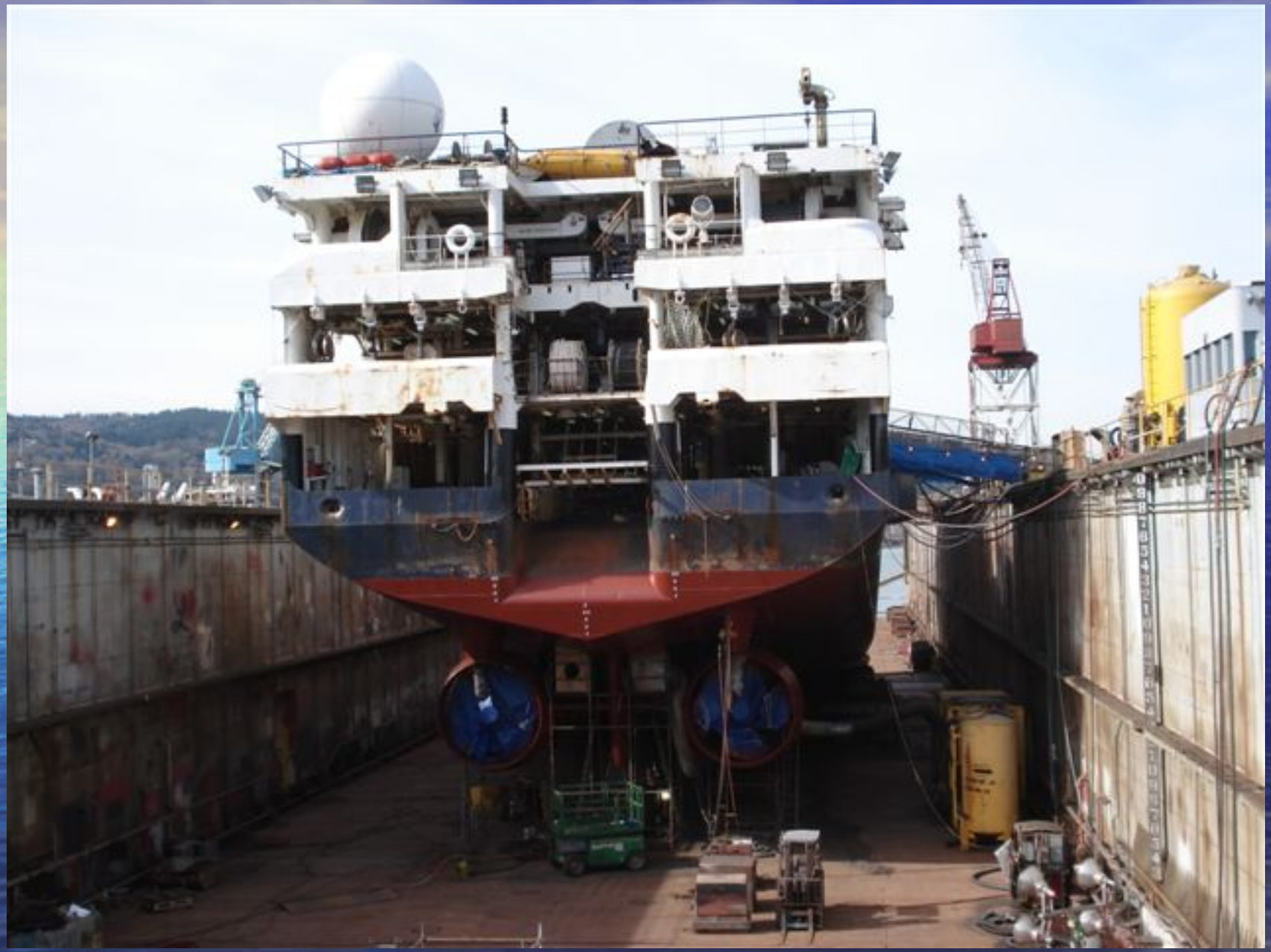
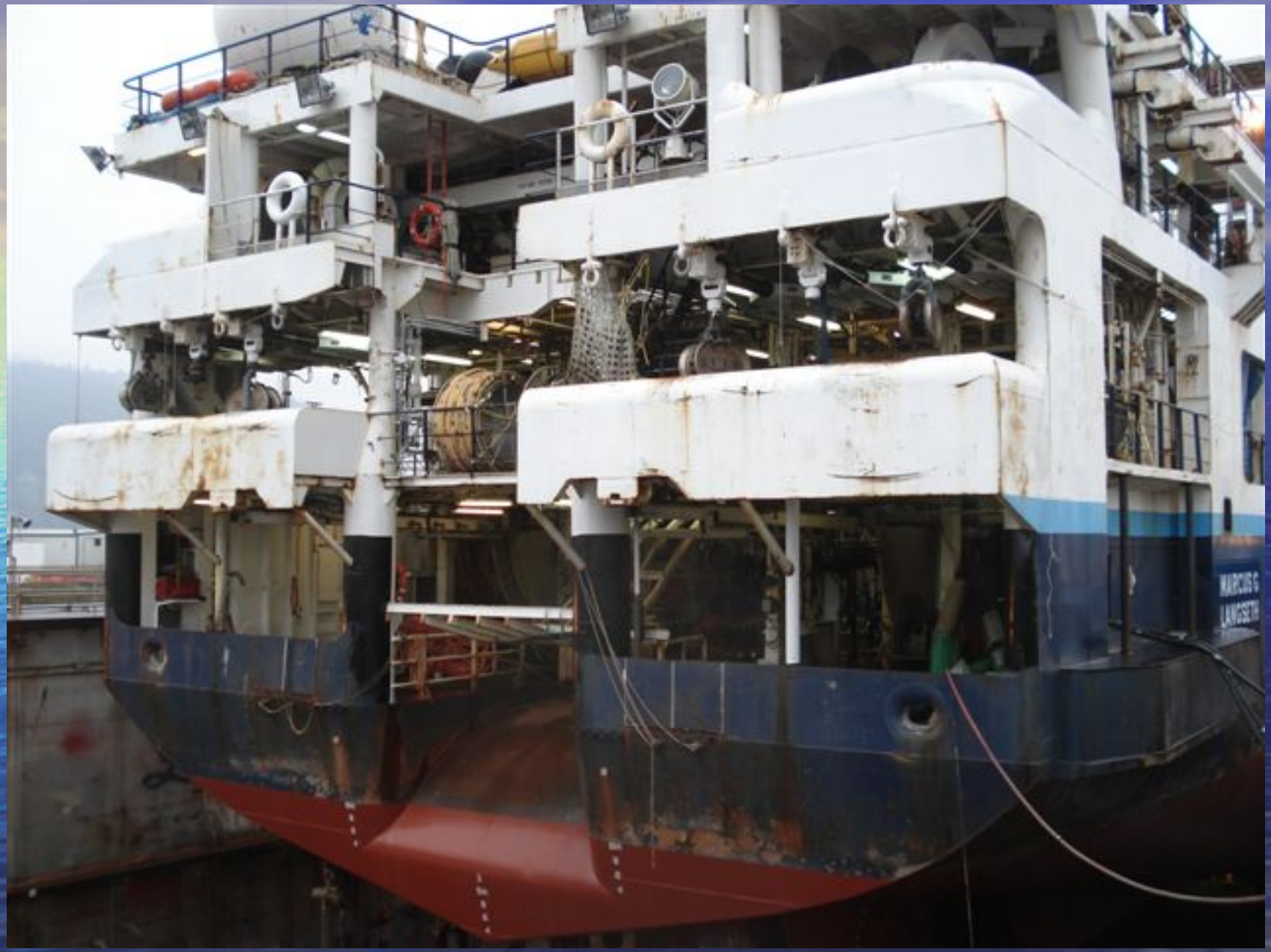
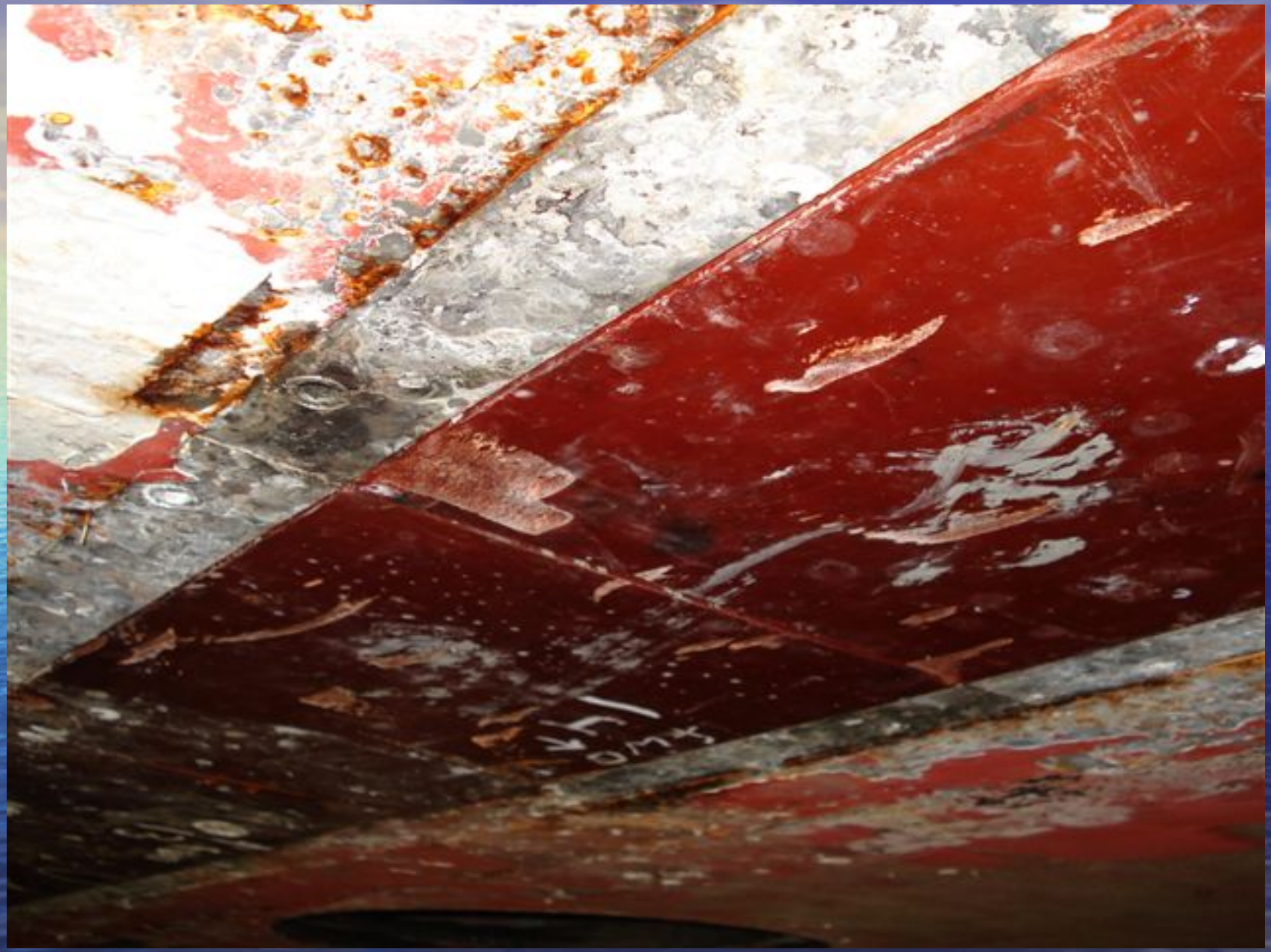
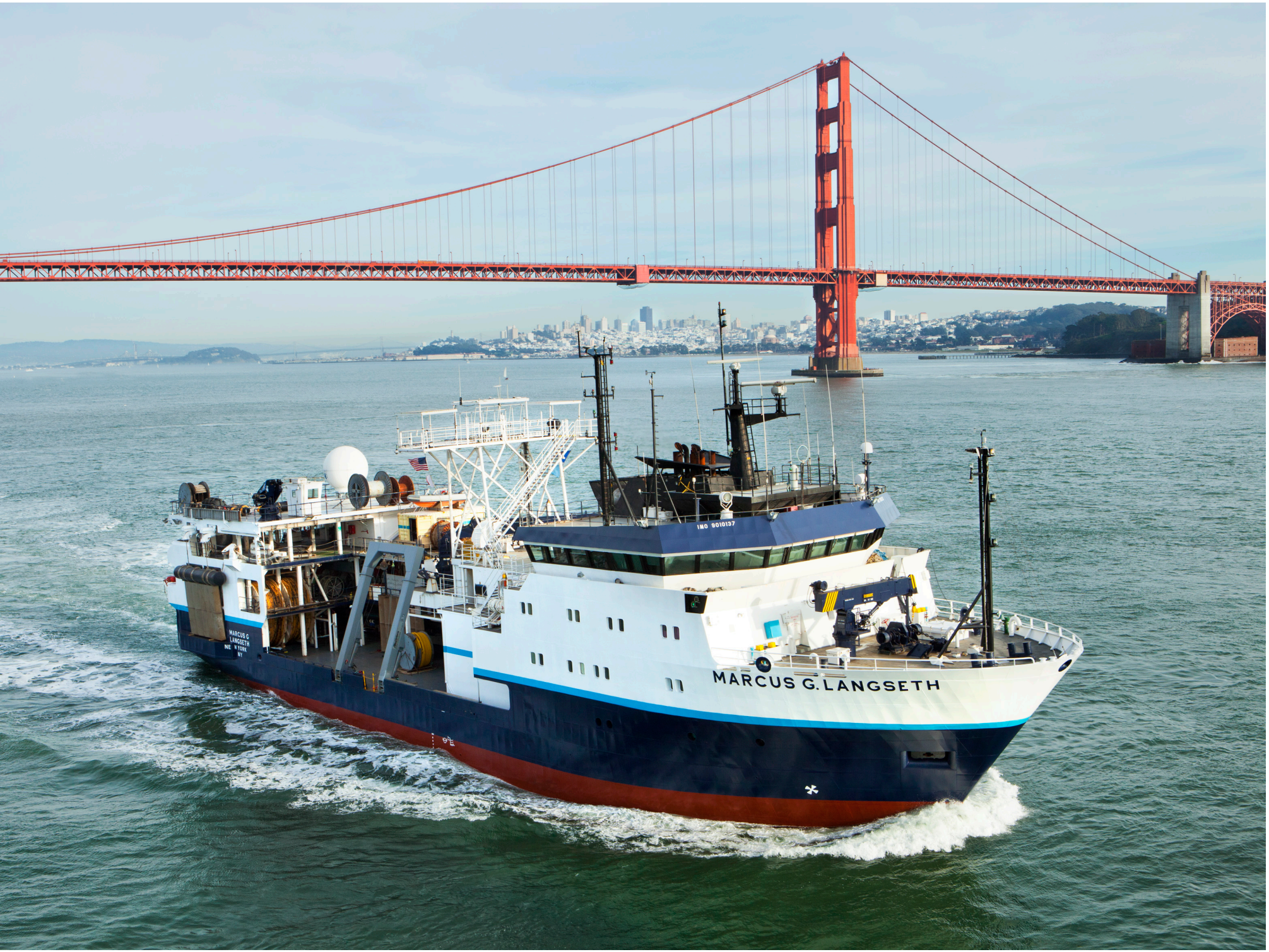
R/V Langseth Update
&
MLSOC Report

Council/FIC Meeting
March 7-9, 2011








IMO 9010137
MARCUS G. LANGSETH

Langseth Shipyard Period 5 Jan to 3 Feb 2011

- 1) Painting: Complete "above the waterline" painting of ship with touchup of the hull painted last spring. Anchor chain pulled, gauged, repaired, painted
- 2) Decks: Main, OBS, and Paravane decks have all been refurbished.
- 3) Engine/Drive Train: Rudder Seals, Clutch Inspection, Gearbox Inspection, Intermediate shaft bearings, new Auxiliary cooling system, new Reverse Osmosis water maker installation, and propeller polishing
- 4) Habitability: New Flooring in accommodations, several passageways, overhaul of Galley furnishing/flooring, new curtains....
- 5) Regulatory : Tank Inspections, Life raft repair/inspections, Communication systems inspections,
- 6) Tanks: Aft peak tank repairs
- 7) Other: Door replacement/repairs, new piping.
- 8) A new ADCP was successfully installed.
- 9) New set of 3.5kHz transducers for sub-bottom profilers.

Langseth Current Status

- The vessel currently resides at MARFAC for maintenance and preparations for the NSF Ship Inspection on March 8-10.
- Following NSF inspections we will continue to wrap up final maintenance projects, complete 3D-setup shakedown cruise for streamer
- Preparations, and prepare for departure to Costa Rica on March 27th.

Status of Western-Geco Streamer Purchase:

- Final contract for W-G streamer purchase has been finalized between CU/LDEO and WG.
- The shipment of 9 -40’ containers of streamer left Feb.23 with 21 days to LA (Long
- Beach) with ETA on March 16. in Long Beach.
- The OceanInstrumentation II proposal is in process with NSF Program Officer James Holik.

Langseth Schedule

Shipyard- San Francisco 5 Jan to 3 Feb, 2011

Return to Scripps/MARFAC 7 Feb, 2011

NSF Inspection- 8 March- 10 March

Depart for Science- 27 March 2011

Cruises- (6)- 246 operating days in 2011

MLSOC Committee Members

Graham Kent, UNR (Acting Chair, MLSOC) 02/10 - 12/11
Michael Enachescu, Memorial Univ of Newfoundland 10/06 - 10/12
H. Paul Johnson, UW 10/06 - 10/12
W. Steven Holbrook, U Wyoming 10/06 - 10/12
Mitchell Lyle, TAMU 10/06 - 10/12
David W. Scholl, USGS 02/10 - 02/13
Alexander (Sandy) Shor, U Hawaii 02/10 - 02/13
Nathan Bangs, UT Austin 02/10 - 02/13
Maya Tolstoy, LDEO (ex-officio) 09/98 - XXXX
Suzanne Carbotte, LDEO 09/98 - XXXX
Paul Ljunggren (ex-officio RVOC Rep) 09/98 - XXXX
Jeff Rupert (ex-officio RVTEC Rep) 07/10 - XXXX

MLSOC Recommendations

Data Access and Availability

MLSOC endorses a model that includes three classes of data access:

- **Community programs**. This category includes large programs that, by virtue of their broad interest, are most appropriately planned by a wide community, e.g. in thematic workshops.

MLSOC Recommendation

- **Open-access programs**. These programs, which combine elements of the PI-driven and community models, will stem from proposals written by small groups of PI's, but will produce rapidly processed, open-access data for full release to the community.

MLSOC Recommendations

- **PI-driven programs**. This category describes the current modus operandi of our community: PI-driven projects, with exclusive data rights for PI's within a moratorium period (currently two years).

MLSOC Recommendation

- **Advanced Planning Cycle**:
  MLSOC endorses an advanced planning cycle in which proposal calls are issued on a regional basis (e.g., North Atlantic, eastern Pacific) several years in advance. MLSOC will work with the user community, NSF and the facility operator to determine the ship's projected areas of operation, guided by Letters of Intent.

MLSOC

- **Dedicated Langseth panel**:
  MLSOC offers as a suggestion that NSF consider a separate panel for judging R/V Langseth proposals, especially in the context of a new NSF program to fund research using the facility.

MLSOC

- **Training the Next Generation**: MLSOC endorses including a strong training component on all Community and Open-Access projects, in which science berths are open to scientists wishing to gain at-sea experience on R/V Langseth.

MLSOC

- **Data Processing**:
  MLSOC endorses commercial processing for all 3D cruises. The intent of commercial processing is to rapidly produce an interpretable data volume, as well as intermediate products that will enable proposals for further analysis.

MLSOC

- **Improving the Educational Footprint**: MLSOC endorses (1) expansion of the Langseth website with a focus on public outreach and education, (2) K-12 presence through teacher workshops and teacher-at-sea programs, (3) a "Distinguished Ambassador" program to visit K-12 schools, (4) use of social networking sites to communicate Langseth activities and results to interested parties, (5) exploring use of Langseth transits for training/education cruises, and (6) training of undergraduate and graduate students in use of open-access 3D interpretation software to bring Langseth 3D data into college classrooms and graduate-level research programs.

John Diebold honored

Diebold Knoll