

Minutes of November 13, 2007 MOC Meeting

Attendees: Bob Knox, Jen MacKinnon, Mike Landry, Tom Althouse, David Skydel, Jerry Smith, Dave Chadwell, Ryan Rykaczewski, Gabriela Chavez, Steve Miller, Rose Dufour, Gabi Laske, Matt Dzieciuch, Dave Checkley, Steve Constable, Jeff Gee

Meeting called to order at 2:00 p.m.

Agenda

1. 2008 ship scheduling update (Rose Dufour)
2. UNOLS Data Management Best Practices Ad Hoc Committee (Steve Miller)
3. Ship status report (Captain Althouse, report attached below)
2. STS report (report attached below)
3. Other business

Comments/discussion

- 2008 ship scheduling update
 - Rose Dufour provided a summary of the current status of ship schedules, which after considerable iteration are converging on a reasonable number of days for the SIO vessels in comparison to previous years.
 - Tentative schedules include 271 days for Revelle (including UC time for Constable), 231 days for Melville, 211 days for New Horizon, and 110 days for Sproul.
 - The committee also briefly discussed the current status of UC Ship Funds in the context of how these funds might influence discussion of ship scheduling.
- UNOLS Data Management Best Practices Ad Hoc Committee
 - Steve Miller provided a brief summary of a current UNOLS Ad Hoc committee (of which Miller is a Co-Chair) directed at assessing data management issues on UNOLS vessels. The responsibility for archiving data and clearance data delivery has been, in part, handed off to principal investigators and UNOLS recognizes that a more integrated approach is advisable.
 - It was suggested that data management structures for the Ocean Observing Initiative might also be considered by this Ad Hoc committee.
 - Input to the Ad Hoc committee is welcome and is most useful if received prior to the Dec. 12 meeting of the committee at AGU.
 - Relevant presentations from the Research Vessel Technical Enhancement Committee (RVTEC) of Monterey (Nov. 6-8) are available:

Bob Arko (LDEO, Co-Chair of Ad-Hoc Committee on Data Management):
"Data Management Best Practices"

http://www.unols.org/meetings/2007/200711rvt/200711rvtap_08.pdf

*Shawn Smith (Florida State, member of Ad-Hoc Committee)
"Metadata Automation Survey"*

http://www.unols.org/meetings/2007/200711rvt/200711rvtap_24.pdf

Marcia McNutt (MBARI), UNOLS Chair Report

http://www.unols.org/meetings/2007/200711rvt/200711rvtap_13.pdf

All RVTEC presentations may be browsed from

<http://www.unols.org/meetings/2007/200711rvt/200711rvtmi.html>

- Ship status report (Captain Althouse, report attached below)
 - Captain Althouse highlighted a few items from the attached ship status report: the overall success of testing on Melville following it's overhaul; the bow thruster on Revelle is now functioning well.
- STS report (Woody Sutherland, report attached below)
- Other business
 - The next scheduled meeting (Dec. 11) was cancelled as this coincides with the Fall AGU meeting.

Meeting adjourned at 2:45 p.m.

Ship Status Report

MOC NOTES 11-13-07

MELVILLE

1. Completed overhaul in Sasebo after sea trials 11 October. Motor, thruster and new DP system tests went well.
2. Departed Sasebo for loading in Kaohsiung. Conducted EM 120 calibration tests enroute Taiwan, initial reports indicated system operating correctly.
3. Loaded and conducted Farmer cruise successfully from – to Kaohsiung.
4. Loaded Lee glider servicing cruise, departed 24 Oct and returned to Kaohsiung 3 Nov after successful cruise.
5. Loaded McEachern and departed 7 Nov, scheduled to return to Kaohsiung on 24 Nov but ship reports indicate cruise is going well and may return as early as 17 Nov.
6. All ship items in overhaul package appear to have been completed properly.
7. No significant material problems reported.

ROGER REVELLE

1. Completed Ward cruise in Mormagau as scheduled. This port stop went better than the previous 2. No reports of crew having to pay bribes at port security gate to get to their planes, etc. I directed Agent to replace ship's chandler for this stop and provision quality was improved.
2. Loaded Chris Charles for dredging cruise in shallow near Seycheles. Departed on time with Gravity Corer borrowed from Dr. Naqvi as ours along with items for Fueri were delayed in transit and could not get to Mormagau before departure of ship. They were forwarded to Seychelles and made it to ship on arrival. During shallow water dredging, 1 dredge was lost while trying to free it. Coring was generally unsuccessful due to nature of the sediments.
3. Arrived in Seychelles as scheduled 4 November, offloaded Charles – loaded Fueri departing 7 Nov. Currently conducting dredging operations according to science plan. Scheduled arrival in Mauritius is 25 Nov.
4. Repaired bow thruster motor continues to operate satisfactorily. No significant material problems noted.

5. We are preparing to dry dock the ship in Durban for underwater maintenance, hull painting and regulatory inspections.

NEW HORIZON

1. Completed USN PLUSNET Operation in Hood Canal. Encountered heavy weather in both directions to and from the operation. No damage just somewhat slower transits.

2. Conducted 2 1 day science cruises for Levin and Franks off San Diego.

3. Ship departed 12 hours late on CalCOFI cruise due to evaporator problems for 8 hours. AS ship was getting ready to depart at 1600, #2 Generator voltage regulator failed. Another 4 hours were required for replacement and testing. Departure was just after 2000. All oeratng normally at this time.

4. We continue to experience intermittent e-mail problems on both F 77 and HighSeas Net. CRG is working the issue and is making progress.

5. Due to 21008 scheduling considerations, the ship's overhaul has been advanced from May – June to February. We are scrambling to get the spec completed and on the street in accordance with Federal mandates. This is the 3rd overhaul in a row that has been advanced.

6. Other than the communication issue, no significant material problems are reported.

ROBERT GORDON SPROUL

1. Ship completed USN PLUSNET Operation in Hood Canal and arrived at MARFAC after a slow transit south due to heavy weather.

2. Conducted marine mammal cruise for Henderson, followed by a cruise for Dave Chadwell and another mammal cruise in conjunction with FLIP's current operations.

3. We continued trouble shooting problems with the trawl winch and were able to correct the uncommanded pay out signal on start up and line count and wire speed problems on both winches. Line speed on trawl winch will be slower than stated on our web site until we are able to replace the generator and upgrade the prime mover. We are still developing the plan for this. Once we have an estimate of cost we will start trying to find the money.

4. Ship continues to experience some unreliability in the F 77 e-mail system. CRG is working this in conjunction with New Horizon.

5. No significant material problems are reported.

STS Report

R/V MELVILLE

- 1) completed shipyard period in Japan
 - a) new 150 kHz Ocean Surveyor ADCP arrived too late for installation
 - b) Kongsberg EM-120 multibeam installed
 - i) appears to be clean installation, ambient noise levels are reasonable
 - ii) dock testing completed and satisfactory
 - iii) sea trials completed and satisfactory
 - iv) STS developed procedures for input of realtime sound velocity at transducer
 - v) STS developed procedures for input of sound speed profile from XBT
 - vi) continue to work with Kongsberg regarding controlling software
 - c) 3.5 kHz transducer array was removed due to interference by EM-120 installation
 - i) first attempt at relocation was unsuccessful
 - ii) STS and MarFac developing plans and schedule for reinstallation 3.5 kHz array
 - d) much progress made in migration of network services from aging SUN servers to modern linux servers
 - e) software upgrade and hardware maintenance of Knudsen sub-bottom profilers
 - f) software upgrade and hardware maintenance of SeaSpy magnetometers
- 2) successful completion of cruises for Framer and Lee, with no reported problems

R/V ROGER REVELLE

- 1) repair of HiSeasNet antenna hardware in between Naqvi and Ward cruise legs
- 2) Ward cruise - completed extended station work at 3 sites, with no reported problems
- 3) Charles cruise -
 - a) shipment of STS gravity corer and dredge supplies was not delivered before departure
 - b) loan of gravity corer from NIO for cruise, to be returned from Seychelles
 - c) STS shipment forwarded via air to Seychelles
 - d) successful shallow water (less than 100m) mapping with towed chirp and sidescan from SIO
 - e) successful dredging, however loss of 1 dredge
 - f) after several attempts, success with last gravity core
- 4) Feuri cruise
 - a) multibeam and magnetometer mapping going well
 - b) first few dredges going well
 - c) will continue with many more dredged before end of cruise

R/V NEW HORIZON

- 1) catastrophic failure of HiSeasNet hardware in antenna prevented use during PLUSNET cruises
 - a) repaired upon return to San Diego
 - b) reported problems during CalCofi cruise is being investigated
- 2) successful student cruises for Levin and Franks
- 3) start of CalCofi cruise

R/V SPROUL

- 1) problem with multicorer on recent cruise, the corer is being evaluated by the manufacturer
- 2) no other reported problems with STS equipment or services