

Minutes of October 14, 2008 MOC Meeting

Attendees: Rob Pinkel, Tom Althouse, Bob Knox, Jen MacKinnon, Bruce Appelgate, Gabriela Chavez, Dave Chadwell, Ryan Rykaczewski, Caryn Neiswender, Matt Dzieciuch, Dave Checkley, Jerry Smith, Gabi Laske, Jim Swift, Woody Sutherland, Jeff Gee

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

Agenda and Related Discussion

1. Updates (primarily from B. Appelgate; original notes attached below)
 - a. October UNOLS meeting
 - i. Elections
 1. New Chair: Vernon Asper (Southern Mississippi)
 2. Chair-elect: Bruce Corliss (Duke)
 3. Operator member: Ken Coale (MLML)
 4. At-large member: Rob Pinkel (SIO)
 - ii. Requests for SIO input to the fleet improvement committee (D. Checkley is our representative on the FIC) resulted in 61 responses from SIO, far and away the largest number of responses to the survey.
 - iii. Death of Bill Martin aboard *Thompson*
 - iv. There was a discussion on crew hiring and retention (see <http://www.unols.org/meetings/2008/index.html> for the associated presentation).
 1. Revise SSSE proposal guidelines to include crew training as a fundable option
 2. Development of a pool of full-time relief personnel (including technicians) for the UNOLS fleet
 3. SIO should be involved in defining how relief pools will work.
 - v. Preliminary designs have been completed for two ocean class vessels (for which ONR funding is available). Planning for three regional class vessels are on hold as cost estimates now far exceed what NSF can fund in house.
 - b. STS relocation
 - i. Some STS personnel at Isaacs Hall will be relocated to Marfac. Negotiations are still underway on the details of space renovations at Marfac (Buildings 2, 3) that will be needed to accommodate STS personnel. These negotiations will need to be completed before final decisions can be made on what STS functions will be moved to Marfac.
 - c. ONR funded ocean class vessel
 - i. The RFP for final designs is expected at the end of October, with an award expected in April, 2009.
 - ii. The RFP for the operating institution is expected in May, 2009 with a 90 day response time. A new Chief of Naval Research (CNR)
 - d. Scheduling update as of 10/14/08
 - i. Sproul currently has ~90 days (likely to fill up further during year).
 - ii. Melville has 289 days, mostly in the western Pacific.
 - iii. Revelle has a very full schedule with 298-336 days working off South America and in the Indian Ocean.
 - iv. New Horizon currently has 102 days, with a layup scheduled from 3/14/09-9/8/09. Negotiations are underway to use the New Horizon for a proposed 2 ship experiment in the Bahamas that would add ~60 days (and thus lower the day rate).
 - e. TWIC cards

- i. The committee briefly discussed the possibility of having a on site visit to facilitate TWIC card application. As the implementation deadline is fast approaching (12/31/08), it was recommended that anyone needing access to Marfac should obtain a TWIC card as soon as possible.
2. Ship status report (see attached report from T. Althouse; attachment 1)
 - a. No discussion.
3. STS report (see attached report from W. Sutherland; attachment 2)
 - a. No discussion
4. Other business - none identified

Meeting adjourned at 2:40 p.m.

Attachment 1: Ship Status Report

ROGER REVELLE

1. After problems with weather, Hurricanes Hannah and Ike, REVELLE was able to get back to work on the test range. There were coordination problems with the Navy Range management that frustrated scientific objectives. Some mammals were tagged and data recorded but far less data was collected than was planned. A brief port stop was made in Nassau to exchange personnel. Briefings and tours were held for officials and scientists from Bahamas and a tour was conducted for employees and families from the US Embassy Nassau.
2. Ship arrived in Port Everglades 3 October, offloaded Southall and loaded Constable.
3. While in port the Markey traction winch was successfully repaired, Nr % Main Engine was repaired and work was done on the 10 cm radar antenna that was making noise. Unfortunately, the noise has returned and we are setting up service for the maintenance period in Tampa after Constable cruise.
4. Ship sailed on time 7 October and is conducting Constable cruise in the Gulf of Mexico. Ships scheduled to arrive in Tampa for maintenance period 25 October.
5. Major effort in maintenance period includes completion of K-POS- DP11 installation and sea trial, installation of new scientific UPS, repair of 10 cm radar antenna and other minor items. Equipment for Balch cruise from Montevedeo, drifters for Ledwell cruise, drifters for NOAA and ODF equipment for Balch and CLIVAR cruises will be loaded.
6. Ship departs for Montevedeo 11 November.
7. No significant material issues are reported.

MELVILLE

1. Arrived San Diego after short NOAA survey enroute from Dutch Harbor on 23 September. Fueled at 10th Ave and hosted press on trip across harbor to MARFAC. On 24 September MARFAC hosted the Director's VIP Luncheon and tours and tours for interested SIO staff, faculty and students.
2. On 25 September finally started loading for Landry cruise which included installation for the 4 frequency Fisheries Sonar for the first time. Loading and check out were completed and Ship sailed on time on 30 September. Weather caused some delay Friday and Saturday but science program is now back on track. Cruise ends in San Diego on 29 October.
3. Accomplished some minor maintenance while in port. More will be completed during next import which is slightly longer.
4. Lizzaralde Cruise has been cancelled. We have shifted maintenance period into December. We have an engine overhaul, replacement of the slewing gear and installation of the voyage data recorder as the major items during the maintenance period.
5. We are evaluating the feasibility of conducting DART buoy operations to repair/replace non-operational buoys in the Alaska area during the transit to the Western Pacific in January. I have concerns about the safety of this. Comments from a NOAA Power Point presentation " Our

past experience in conducting operations in the north Pacific suggests that the weather will seriously impact our ability to successfully conduct this discrepancy response” and “.... Our operational experience in these areas leads us not to recommend it at this time of year.” We are evaluating sea conditions during January in the buoy areas to see if we think it is safe to try.

6. No significant material problems are reported.

NEW HORIZON

1. Ship completed LWAD and Send cruises successfully.

2. During the maintenance period we completed overhaul of Nr 1 generator. We also worked the generator reverse power relay system on both generator and conducted switchboard maintenance.

3. Ship sailed this morning on the fall CALCOFI cruise.

4. This cruise completed on 30 October and is followed by a Class cruise for Checkley on 1 November and a cruise for Marc Ohman on 8 Nov.

5. We anticipate the reverse power relay problems have been corrected but will be watching closely as we start the CALCOFI.

6. No significant material problems are reported.

ROBERT GORDON SPROUL

1. Ship completed D'Spain Glider cruise, Kaufmann 24 hour annual student cruise, a Jeff Babcock cruise and a weather shortened Edgecomb cruise.

2. During import periods, various maintenance items were tended to.

3. Upcoming cruises include Moreitti/Hildebrand, Chadwell, Worcester, and Dickey cruises.

4. No significant material issues are reported.

OTHER ITEMS

1. It has been announced that TWIC implementation in San Diego will be 31 December 2008. This means that personnel without TWIC documentation will require escort inside the fence at MARFAC. The ships and my shore staff do NOT have the capability to provide the required escorts for non-Twic holders and we have other things to do. The ratio is 5:1. If your science group does not have a sufficient number of TWIC holders by 1 January 2009, your work at MARFAC will be seriously constrained. This is a TSA rule not ours. I again advise all science party members that go to sea to enroll and get TWIC's. The load at the enrollment center and the delays are increasing. You snooze, you lose.

2. We have received information regarding National Pollutant Discharge Elimination System (NPDES). This requires monitoring 26 specific discharge streams and specifically

addresses R/V's. This will likely impact what we can discharge from the labs overboard. We are researching the proposed regulation and will provide further information. I will be requesting of the regs from scientific users to help determine the impact and what we can do to mitigate it.

Attachment 2: STS Report

R/V ROGER REVELLE

a) completed Southall cruise

- science time lost due to ship dodging storms and not allowed to work on NAVY range
- HDSS repaired with parts sent to intermediate port stop
- ship tour conducted in Nassau
- NAVY VIP's sailed for a few days, with change over in Nassau
- STS pipe string for instrument well needs refurbishment, being returned to SIO to do so
- problems in XBT data attributed to launcher, the spare launcher was put into use and data improved
- problems encountered with RDI 150 kHz Narrow band ADCP, came back to life after repeated power cycling
- STS CTD system worked well
- extensive use of small boats to tag whales

b) began cruise for S. Constable

- initial problems with science supplied equipment, solved by deploying backup equipment
- repaired EM120 spares returned to ship, last 2 transmitter boards with multiple errors have now been changed out
- problem with MX240 GPS antenna, continue to use Furuno GP90 as primary but now without surveyed backup system
- problem reported with port 12 kHz transducer, new cable is being ordered

R/V MELVILLE

a) completed short NOAA survey

- EM120 worked well, but 2nd motion sensor still needs calibration
- newly installed 3.5 kHz transducer array provided good results, but several failed transducers need to be replaced

b) MELVILLE Homecoming celebration went well

c) began cruise for M. Landry

- installation and first use for EK60 fish sonar, going well
- ship's ADCP is working with sync signal from EK60 sonar
- problems with science supplied drifters, replacements picked up in Santa Barbara
- after final tuning at sea, CTD and MOCNESS are working well
- other science supplied equipment is working well
- gravimeter removed for maintenance
- problem with LSC traced to bad RS232 cable, cable was replaced and counter is working well

R/V NEW HORIZON

- #### a) completed LWAD cruise, no reported problems

b) completed Send cruise, no reported problems

c) maintenance period at MarFac

- remodeled the watchstander area
- array of monitors mounted on bulkhead
- EPC plotter mounted on bulkhead
- moved network switch and group of serial data repeaters
- installed new wireless network hardware
- installed 2 new computer servers

R/V SPROUL

a) completed D'Spain glider cruise, Kaufman student cruise, and Babcock OBS cruise

- no reported problems

b) Edgcomb cruise returned early due to high winds and seas

- problems with box core samples due to weather conditions

EH&S Specialist

offer made and accepted, D. Gary Lain will start on October 20

- last position as Waste Program Supervisor for the Burnham Institute for Medical Research
- has also worked for The Scripps Research Institute and General Atomics

1. Outcomes from the recent UNOLS meeting (our UNOLS rep is Pinkel and FIC rep is Checkley)
 - Elections
 - New Chair: Vernon Asper (Southern Mississippi)
 - Chair-elect: Bruce Corliss (Duke)
 - Operator Member: Ken Coale (MLML)
 - At-Large Member: Rob Pinkel (SIO)
 - Death of Bill Martin Friday aboard *Thompson*
 - SMR results: SIO wins (61 entries, next was OSU w/19)
 - UNOLS FIC meeting minutes are online ([click here to view](#))
 - UNOLS annual meeting minutes are also online ([click here to view](#))
 - UNOLS report on crew/tech hiring & retention ([full report is online - click here](#))
 - Revise SSSE proposal guidelines to include **crew training as a fundable option**
 - Development of a **pool of full-time, relief personnel (including technicians)** that would be available to ship out to any of the ships in the fleet

SIO should be involved in defining how relief pools will work
2. Recent progress in planning for STS's relocation to MarFac and status within Isaacs Hall
 - Isaacs Hall space
 - MarFac Facility Use Plan
 - Remodelling BLDG 2 & 3 for STS
3. Plans for SIO proposal for ONR-funded Ocean Class research vessel
 - Contractor RFP goes out end OCT08
 - Contractor award to be made by APR09 to two competing design/build teams
 - Regarding the selection of operator institutions:
 - ONR expects to issue proposals in May 2009, with a 90-day response time.
 - New Chief of Naval Research (CNR) is expected in Fall 2008
 - Given the importance of this award, CNR needs to be involved, hence May RFP.
4. Ship scheduling as it stands 1322 PDT 10/14/2008:
 - RGS 90 days
 - NH 102 days with layup 14 MAR - 08 SEP (yields ~\$23.5k day rate)
 - MV 289 days West Pacific
 - RR 298/312/336 days with SAm -> IO -> SAm

NH schedule still being debated, we want to send NH to AUTECH for 2-ship work instead of Knorr, which would reduce total fleet cost, would not sacrifice Knorr schedule, would add 31+21 days to NH schedule, and provide opportunity for UCSF project in Gulf of California that's otherwise not possible

Melville's Lizaralde cruise unscheduled, will be done in 2009 aboard non-SIO vessel (sonar problem)



**OCEAN CLASS RESEARCH VESSEL
Science Mission Requirements Update
as of 10/10/2008**

**Total Responses by Institution
159 Total Responses**

