

UNOLS Fleet Improvement Committee Meeting



October 5, 2005

UNOLS Office – Reports

FIC Action/Task List

March 2005 Meeting

Task Description	Action
Regional Class Actions:	
<ul style="list-style-type: none"> ● Review Regional Performance Specification - Request community Comment and submit to NSF. 	Complete
<ul style="list-style-type: none"> ● UNOLS Regional Class Rep – Provide recommendations for 2-person Source Select Team and a Technical Advisory Team (6-8 people) 	Complete
<ul style="list-style-type: none"> ● Stay engaged in acquisition process. 	Ongoing - FIC, RCAC

FIC Action/Task List

March 2005 Meeting

KILO MOANA Actions:

- Continue Debrief Interviews with more focused set of questions. Make interview assignments.

Terry has drafted revised question set.

- Compile Debriefs for posting on the UNOLS website

Office - Ongoing

- Draft Summary document

Annette & Dave

- **FOFC Fleet Plan Update** - Provide the Working Group information when requested.

Ongoing - FIC

FIC Action/Task List

March 2005 Meeting

<p>Amend SMRs:</p> <ul style="list-style-type: none"> • Amend Regional and Ocean Class SMR to include ADA requirements (Terry’s white paper) • review the “Lessons Learned” and PCA comments. Incorporate into the SMRs 	<p>RC and OC Steering Committees - ongoing</p>
<p>Design and Constructions Efforts - Stay engaged in ongoing design and construction efforts (ARRV, <i>Langseth</i>, <i>Sharp</i>, etc.)</p>	<p>FIC – Ongoing</p>
<p>Ocean Class Planning – Provided input as requested</p>	<p>FIC and OCSC – ongoing</p>
<p>Global Class: Update SMRs</p>	<p>Global Class Steering Committee – ongoing</p>

FIC Action/Task List

March 2005 Meeting

<p>ADA Guidelines draft White Paper – Terry has drafted an ADA White Paper for FIC comment. FIC should provide any comments to Terry.</p>	FIC
<p>Update Fleet Improvement Plan: Annette will revise outline and recirculate it to committee.(Complete)</p> <ul style="list-style-type: none">• First draft – May 2005• Final draft – 30 September 2005	FIC – ongoing
<p>Ocean Observatories – Stay in contact with ORION Office.</p>	Dave Hebert – ongoing

General Purpose Global Vessel SMR Mid Life Refit considerations



2006 - *THOMPSON*

**Global Class SMR
Steering Committee
Formed**



2011 - *REVELLE*



2012 - *ATLANTIS*

Global Class Steering Committee

- Bruce Howe (UW), Chair – Ocean Observatories
- Tom Althouse (SIO) – Marine Superintendent
- Jim Broda (WHOI) – Coring
- Bob Embley (NOAA/PMEL) – ROVs, MG&G
- Ken Johnson (MBARI) – Chem O.
- Paul Ljunggren (LDEO) – Marine Superintendent
- Dan Schwartz (UW) – Marine Superintendent
- Niall Slowey (TAMU) – FIC Rep, MG&G
- Al Suchy (WHOI) – Marine Superintendent
- Woody Sutherland (SIO) – Marine Technician
- Randy Watts (URI) – Phys. O
- Patricia Wheeler (OSU) – Biol. O.

Global Class SMR Update

- Task Items:
 - Review the past SMRs and other documentation to form the basis of the SMRs.
 - Develop mission scenarios.
 - Solicit input and feedback from the larger science and operator community throughout process
 - Produce SMR document.
 - As a follow-on activity incorporate Heavy Lift considerations, and Seismic Capabilities
- **Website:**
<http://www.unols.org/committees/fic/global/global_smr.html>

Global SMR

Committee Activities/Status

- Meetings –AGU December 2004, phone/web: January and March
- Compare current Global Class vessel capabilities with the Ocean Class and 1989 SMRs to determine how well the SMRs describe current and future science requirements. [A template was formed to assist <[Global_SMR_Values.xls](#)> Large Ship operators – ongoing]
- Compile large ship utilization trends and ship demand. [Complete]

<http://www.unols.org/committees/fic/global/global_slides_030805.PDF>

Global SMR Activities (continued)

- Evaluate construction projects under development in other countries (UK ship, GOSars vessel) – [Tom Althouse – ongoing].
- Identify modifications that have been made to the current Global Vessels since they entered service. [Large Ship Operators – ongoing]
- Draft Community Survey –Post for Community input – November 2005. Review response at Fall AGU. [draft form: http://www.unols.org/committees/fic/global/GCSMR_Survey_Form.html].

Global SMR Activities – (continued)

- Investigate technology developments in new commercial ship construction
- Identify impacts of new and emerging regulatory requirements (ICES Noise standards, ADA, Marine Mammal and Acoustic Permitting, USCG Inspected, SOLAS ships, HAZMAT, International Requirements, Double Hulls, Ice Capable classifications, Etc.)
- ORION Requirements
- Review past workshop recommendations (ocean drilling, NSF Futures documents, Cowles/Atkinson report, etc).
- Contact major funding agencies to determine if they have new science requirements.

Americans with Disabilities Act (ADA) Guidelines for Research Vessels

Background:

- NSF has indicated the need for new ship construction and ship conversion efforts to address ADA requirements.
- In turn, procedural guidelines to address ADA during shipboard operations are needed.

Oceanographic Research Vessel Accessibility for Persons with Disabilities Project - David Chapman (U.Delaware)

- Does his proposal sufficiently address the UNOLS tasking?
- UNOLS collaboration?

ADA Guidelines for Research Vessels

Task Statement: Form an ad hoc committee to carry out the following tasks:

- **Establish ADA Guidelines for new ship construction/conversion**
 - Review and provide input to the ADA paper drafted by Terry Whitledge.
 - Evaluate guidelines on how to implement ADA requirements for passenger vessels <<http://www.access-board.gov/pvaac/guidelines.htm>>.
 - ADA guidelines should take into consideration the size of the vessel, as well as the nature of the disability (hearing, vision, and mobility). There are levels of accommodations that can be made.

- **Recommend how procedural guidelines could be established for accommodating seagoing scientists with disabilities.** This should consider:
 - Shipboard mobility and access areas
 - Research operations
 - Evacuation / safety procedures

ADA Guidelines for Research Vessels

Membership:

- FIC Member - Terry Whitledge
- Risk Manager - Dennis Nixon
- Safety Committee Representative
- Seagoing scientists with disabilities – Amy Bower and/or Dave Glover
- Ship Master - Eric Buck
- Ex-officio - Dolly Dieter, NSF

Timeline: ?

Ship Construction, Conversion, Design and Transfers

R/V Seward Johnson II Transfer

- BBSR is moving forward with plans to acquire *R/V Seward Johnson II* and retire *R/V Weatherbird II*. Status of Vessel Transfer:
 - September 29 - *SJII* sea trials completed.
 - September 30 - ABS certified the ship classification.
 - October 7 - Sale closing date.
 - October 10 – *SJII* arrives at Lyon’s Shipyard in Norfolk, VA for a 4.5 month modification and maintenance period.
 - January 25, 2006 – *Weatherbird II* arrives at Lyon’s shipyard for cross-decking. (*Cape Hatteras* will support BATS during this period.)
 - February 28 – *SJII* arrives at BBSR. New Name TBD.
 - March 2006 – *SJII* begins operations and support of BATS.

R/V Hugh R. Sharp



- Sept/Oct – Shipyard Trials
- Sept 15 – Preliminary Acoustic trials – Overall results were excellent
- Oct 10 – Acceptance of vessel by UDel is planned
- Early Dec – Ship arrives in Port Everglades, FL
- Winter 05/06 – *Cape Henlopen* cross-decking in Lewes, DE
- Jan 06 – Caley CTD Handling system delivery.
- March 21-23 – NSF Inspection
- Late March – Science operations begin.

Kilo Moana Discussion

Kilo Moana Handling System

- System manufacturer - Caley Ocean Systems (Glasgow) - P.O. let in June 2005
- System capabilities - Meets all requirements of NSF-ONR Load Handling Cmte - chaired by Matt Hawkins including smart winch with heave compensation
- Acquisition Status - January 2006 delivery, installation and testing
- Graphic of the Caley docking head, followed by an AI file of the crane dimensions/positions.
 - final head moving2.avi
 - final head moving.avi
 - KMcraneR5.ai
- *Jason 2* test on KM to occur late in 2006.

KILO MOANA

Focused set of Questions

- A. What were the most positive aspects of your research cruise on the R/V KILO MOANA?
- B. What were the most negative aspects of your research cruise on the R/V KILO MOANA?
- C. Did sea conditions ever prevent or impair any of the science operations? If so, how?
- D. Was station keeping and maneuvering on station satisfactory for all science operations?
- E. Were all science systems operating properly and fully functional?
- F. What was the habitability of the science spaces and living quarters?

2005 KILO MOANA Schedule

StartDate	EndDate	PIName	Institution	AreaName	Purpose	Days	Agency
1/7/05	1/31/05	Kuehl,Steven	VIMS	South Pacific	MARGINS	28	NSF
2/4/05	2/15/05	Alexander, Clark	SIO	South Pacific	Sediment Dynamics	15	NSF
4/4/05	4/26/05	Hart, Stanley	WHOI	South Pacific	Somoan Hotspot Dredging	27	NSF
5/16/05	5/20/05	Karl,David	UHI	Hawaiian Islands	HOT Series	4	NSF
5/21/05	5/23/05	Dickey, Tommy	UCSB	Hawaiian Islands	MOSEAN	2	NSF
5/28/05	5/30/05	Dickey, Tommy	UCSB	Hawaiian Islands	MOSEAN	2	NSF
6/2/05	6/10/05	Kelley, Christopher	UHI	Hawaiian Islands	Fisheries Research	8	STATE
6/13/05	6/17/05	Karl, David	UHI	Hawaiian Islands	HOT Series	4	NSF
6/24/05	9/1/05	Armstrong, Andrew	NOAA	Gulf of Alaska	Sea Floor Mapping	68	NOAA
9/8/05	9/12/05	Karl, David	UHI	Hawaiian Islands	HOT Series	4	NSF
9/15/05	10/2/05	Porter, Michael	ONR	Hawaiian Islands	PMRF	17	NAVY
10/6/05	10/11/05	Karl, David	UHI	Hawaiian Islands	HOT Series	4	NSF
11/7/05	11/9/05	Dickey, Tommy	UCSB	Hawaiian Islands	MOSEAN	2	NSF
11/10/05	11/14/05	Karl, David	UHI	Hawaiian Islands	HOT Series	4	NSF
11/15/05	11/17/05	Dickey, Tommy	UCSB	Hawaiian Islands	MOSEAN	2	NSF

FIC Projects and Priorities for 2006

Draft

- **Complete Update of Fleet Improvement Plan**
- **Regional Class:** Stay engaged in acquisition process (ongoing)
 - Provide feedback to NSF
- **Ocean Class:** Stay engaged
- **Global Class:** Update SMRs
- **Establish ADA Guidelines**
- **Ocean Observatories** – Keep abreast of ORION Facility Needs
- **Ongoing Design and Construction Efforts** - Stay engaged in ARRV and *Marcus Langseth* Conversion Effort
- **Kilo Moana** – Continue debriefs (streamlined and selective)

FIC Membership

- **David Hebert, URI (Chair) – [at-large, 9/06] PO**
- **Newell Garfield, SFSU – [Non-op, 9/06] PO**
- **Jim Cochran, LDEO – [at-large, 9/07] MG&G**
- **Niall Slowey, TAMU – [Operator, 2/08] MG&G**
- **Terry Whitley, U Alaska – [Operator, 9/07] BIO/Chem**
- **Clare E. Reimers, OSU – [Operator, 1/06] Chem**
- **Ron Benner, USC – [Non-Operator, 1/06] Bio / Chem**
- **Bauer, Jim, VIMS – [Non-Operator, 9/06] Chem/Bio**
- **Marc Willis, RVTEC Rep (ex-officio)**
- **Al Suchy, RVOC Rep (ex-officio)**

