



UNOLS Report

RVOC - 2003

UNOLS Top Ten Issues

- Fleet Renewal - Implementation of FOFC plan, concept designs and funding for new ship construction.
- Observatories - Assess the needs and impacts of observatory systems with respect to facilities, ships, submersibles and aircraft.
- Scheduling improvements - Improve systems and results to maximize access to facilities.
- Quality Improvement - Use Post Cruise Assessments as core of quality improvement plans
- MMPA/ESA Permitting - facilitate compliance and cruise planning.
- Icebreaker renewal - service life extension and science system improvements for POLAR Class icebreakers.
- Integrated Facilities planning - plan for ships, submersibles, aircraft, observatories and instrumentation through a systematic and coordinated approach.
- Outreach and Education - bring the knowledge of ocean science research to the public along with an understanding of the facilities needed to support that research.
- Standards of Service - set standards for facilities, instrumentation and service.
- Submergence vehicle renewal - develop the tools to enhance access for submergence science.

Fleet Renewal

Fleet Improvement Committee

**Activities, Plans and
Recommendations**

FIC and Fleet Renewal Activities (2002/2003)

- **SMR Development:**
 - Ocean Class (version 1 posted)
 - Regional Class (Version 1 posted)
 - Global Seismic Ship (posted for community review and feedback)
- **Review of ongoing Design efforts:**
 - ARRV, CAPE HENLOPEN Replacement, EWING Midlife workshop/vessel tour (letter of endorsement)
- **Regional Class Phase II Study**

FIC Activities

(ongoing and planned)

- **Implementation of Fleet Renewal - major focus.**
- **Recommend an update to the FOFC Fleet Renewal Plan**
- **Provide feedback to agencies regarding Regional Class Phase II study and acquisition process**
- **Continue to review and advise on Ship Design and Construction Efforts**
- **Continue KILO MOANA Debrief Activities**
- **New Ship Design Issues**
- **Ocean Observatory Facility Needs**

KILO MOANA

- **Continue FIC Debrief Interviews of KILO MOANA Chief Scientists**
- **FIC will provide information to the University of Hawaii on items/issues that are identified by the debrief interviews**
- **Recommend that a ship motion analysis of KILO MOANA be supported.**
- **FIC will review debrief interviews with respect to the monohull versus SWATH hull characteristics**

New Ship Design Efforts

- **Ensure that new issues/regulations are considered in future design efforts:**
 - **Homeland Security**
 - **Handicap Access**
 - **Noise**
 - **Broadband Communications**
- **Recommend that the UNOLS Post Cruise Assessment Subcommittee provide feedback to FIC in respect to shipboard capabilities and equipment improvements.**
- **Lessons Learned feedback from all experienced crew, scientists, operators, technicians.**

FIC Membership Changes

- **Outgoing FIC Chair – Larry Atkinson (ODU)**
- **New Chair – David Hebert (GSO/URI)**
- **New Members:**
 - **Ronald Benner (USC)**
 - **Newell Garfield (SFSU)**

Observatories

UNOLS Working Group on Ocean Observatory Facility Needs

- Formed in early 2003. Alan Chave appointed as Chair.
- Study areas:
 - Deep ocean seafloor observatories Deck handling and mooring deployment/recovery needs
 - ROV and AUV requirements
 - Mapping requirements
 - Coastal observatory requirements (including aircraft)
 - Vessel characteristics, possible improvements, and recommendations for new vessel designs

The Working Group Draft Report is expected to be available soon for community review and feedback.

Ocean Observatory Working Group Preliminary Recommendations:

Improvements To UNOLS Vessels:

- Shroud Z-drive nozzles to protect props from cables
- Install redundant DP systems to improve reliability during critical ops.
- Increase deck space on UNOLS Large ships
- Consider installation of stronger A-frame/heavier winch combinations to increase load handling ability to 20,000 lb static
- Major safety issue--requires trained crew not UNOLS-standard science party plus resident technician

Consider the acquisition or long term lease of a heavy lift vessel (cable repair or equivalent)

Ocean Observatory Working Group (continued)

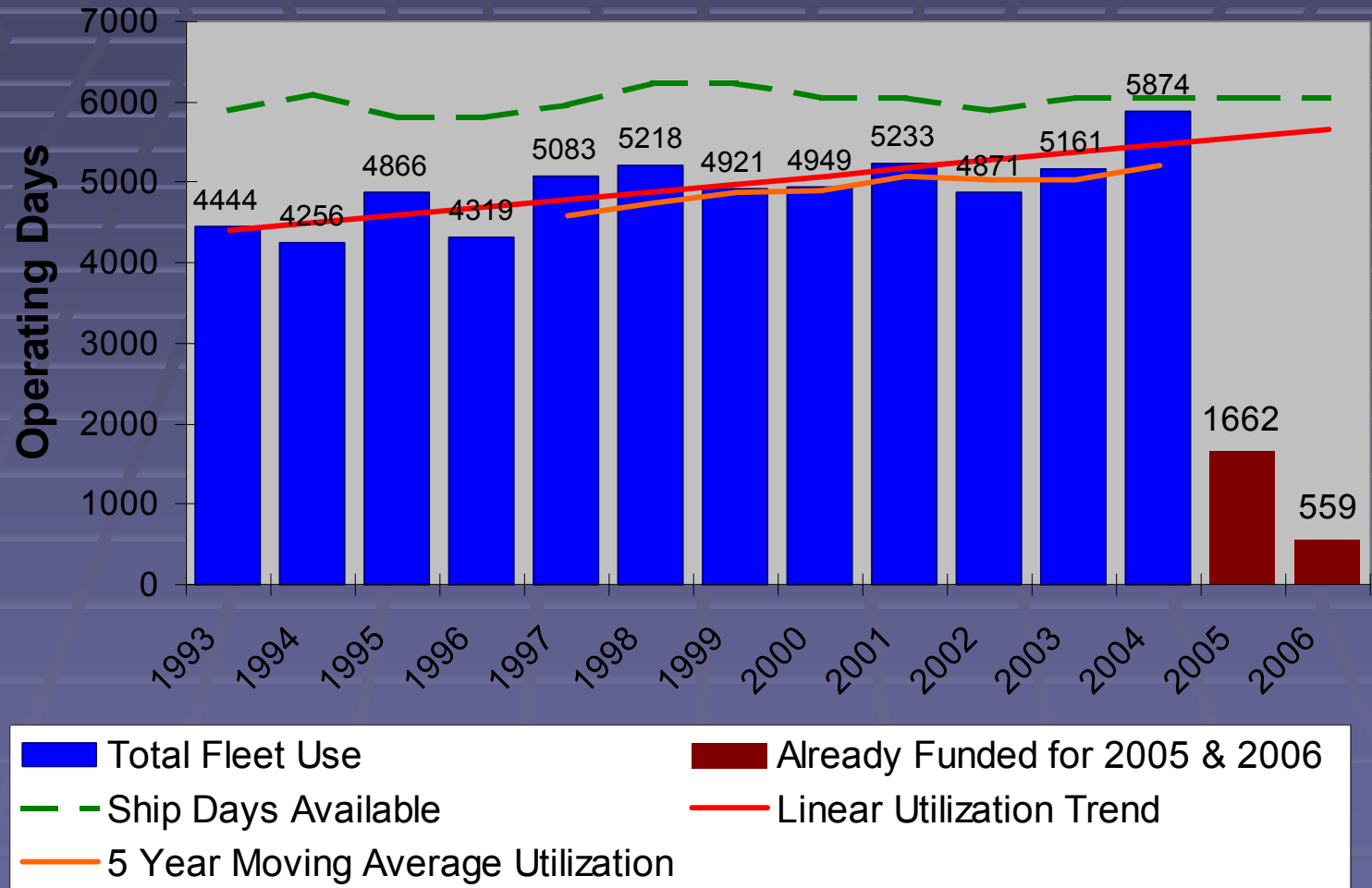
ROV Support Recommendations

- Routine access to ROVs will be required for all observatory operations
- 1 additional vehicle will be required when the OOI is implemented (2-3 y from now)
- 1 more vehicle will be required when OOI facilities are fully operational (5-7 y from now)
- Commercial ROVs are not suitable for most science operations but may be usable for routine maintenance tasks

Scheduling Improvements

- New software
- Collaborative Web Conferencing
- New database
- Tougher scheduling environment
 - High demand in peak periods
 - Multi-Ship and Multi-PI projects
 - High demand for specialized facilities
 - Tight fiscal environment

Fleet Utilization Trends



Deferred Cruises



Collaborative Web Conferencing

- PictureTalk Web Conferencing

The screenshot shows a web browser window titled "PictureTalk v4.3 - Powered by Pixion". The address bar displays "http://meetings.picturetalk.com/picturetalk/main.jsp". The browser's address bar contains several bookmarks: Google, PictureTalk Enterprise Conference Server v4.3, Unols Distribution List Membership, FastLane, DLESE Community Review System, and LDEO MG&G Database. The main content area features a blue header for the "UNIVERSITY-NATIONAL OCEANOGRAPHIC LABORATORY SYSTEM" with contact information for the UNOLS OFFICE at MOSS LANDING MARINE LABS. Below the header is a navigation menu with tabs for "Meeting", "Account", and "Set-up". Under the "Meeting" tab, there are sub-tabs: "SCHEDULE", "CALENDAR", "ARCHIVE", "ELAPSED", "CREATE", "ATTEND", and "LOGOUT". The "Meeting Schedule" section is active, displaying "Current Meetings" with a table of meeting details. The table includes columns for "In Progress", "Key", "Meeting Topic", "Date / Time", "Details", "Send Invite", "Attachments", "Playback", and "Delete". A single meeting is listed with key "wxpt6798" and topic "My Perpetual Meeting".

UNIVERSITY-NATIONAL OCEANOGRAPHIC
LABORATORY SYSTEM

UNOLS OFFICE
MOSS LANDING MARINE LABS
8272 MOSS LANDING RD.
MOSS LANDING, CA 95039

PHONE: (831) 771-4410 FAX: (831) 632-4413

Meeting Account Set-up

SCHEDULE CALENDAR ARCHIVE ELAPSED CREATE ATTEND LOGOUT

Meeting Schedule

Current Meetings
(click on meeting to join)

seat usage: 0 license: 5

In Progress	Key	Meeting Topic	Date / Time	Details	Send Invite	Attachments	Playback	Delete
	wxpt6798	My Perpetual Meeting						

Delete

Quality Improvements

Quality of Service

Subcommittee on Post Cruise Assessments

- The Sub-Committee reviewed a subset of the new post cruise assessments to evaluate how well the form addressed issues of quality improvement.
- The new form is a big improvement and is providing valuable feedback.
- They have made some observations that will be used to refine the charge to the Sub-Committee, help to define the role of the UNOLS Council.
- They will consider whether or not to make recommendations for improving the form.
- The rate of return from Chief Scientists is still hovering near 60% and should be increased to get the full benefit of this assessment system.

MMPA/ESA Permitting

Marine Mammals and Acoustic Permitting Issues

- NSF and NMFS consulting regarding the requirements and procedures to be followed.
- LDEO handling requests for IHA permits for EWING and LDEO portable systems
- SIO would do the same for their portable systems
- Lead for other permitting action not as clear
- Guidance from NMFS on acoustic thresholds that would require consultation or complete permitting action are expected in the near future.

Icebreaker Renewal

- Will be covered in AICC report

Integrated Facilities Planning

- This is a goal that will be the focus of FOFC and UNOLS as we address more and more facility requirements that will compete for the same dollars.

Outreach and Education

- This goal should be integrated in all that we do.
- UNOLS should support and promote these efforts on the part of PI's and Facility operators
- Outreach page on UNOLS website and other's websites.

Standards of Service

- Will be covered in RVTEC report

Submergence Vehicle Renewal

A sunset over the ocean with a grid overlay. The sun is low on the horizon, casting a golden glow across the sky and reflecting on the water. The grid is composed of dark blue lines that create a perspective effect, converging towards the top of the image.

Deep Submergence Science Committee Activities 2003

Spring DESSC Meeting

WHOI June 11-12, 2003

Discussion Items

- **NDSF Chief Scientist replacement**
- **2002/2003 Operations and Requests for 2004 and beyond**
- **Upgrades to Jason 2 and DSL-120 - Field tests completed**
 - **1st science programs successful**
 - **(Fryer used Jason 2 at 6500 m)**

Spring DESSC Meeting

Discussion Items (continued)

- **Upgrades to NDSF sensors and tools**
- **Scheduling issues: effects of demand for ROVs**
- **New ALVIN Design Study - discussion of various design parameters and a trial of observer and view-port placement**

Biology Outreach Efforts

- **DESSC Annual Meeting to be held at the 2004 Ocean Sciences Meeting, AGU, Portland, OR - January 25, 2004**
- **ASLO Special Session will be held in Honolulu February, 2004**

DESSC Outreach to other disciplines and the public

- **Nontraditional fields (marine archeology educational efforts)**
- **Lectureship program in association with RIDGE2000**
- **IMAX movie and outreach activities**
- **Discovery Channel series**

OSB's Committee on Future Needs in Deep Submergence Science

- **Task Summary:**
 - **Assess the continued role of human occupied vehicles in deep submergence science.**
 - **Make recommendations regarding the mix of new facilities needed.**
 - **Discuss innovative design concepts and technological advances that should be incorporated into any new submersibles.**

NSB Committee on Future needs of Deep Submergence

- **First public meeting: May 2003 at WHOI: Presentations by Sub users**
- **Second public meeting: June 2003 in San Francisco**
 - **Potential research at greater depth**
 - **Potential ROV/AUV development**
- **Third meeting (committee only)**

Draft report is currently in review

Welcome, Al Suchy

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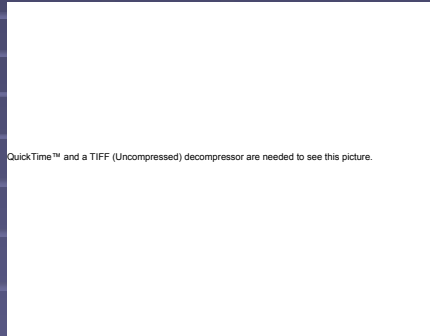
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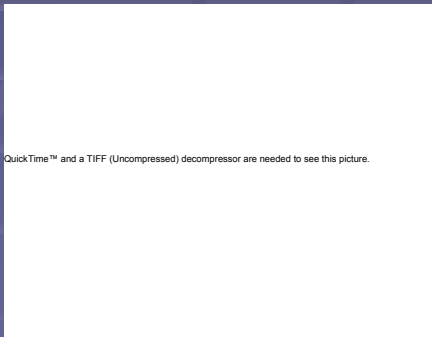
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