

UNOLS Fleet Improvement Committee Meeting



Report to the UNOLS Council

October 13, 2005

Summary of October FIC Meeting

October FIC Meeting Summary

Agenda Items and Activities

- **Fleet Renewal Activities (Reports from Agencies):**
 - Regional Class
 - Provided NSF with list of volunteers to serve on Technical Review team(6) and Source Select team (2)
 - UNOLS comments on Performance Specifications provided to NSF
 - Ocean Class
- **Status of FOFC Long-Range Fleet Renewal Plan –**
 - UNOLS Input needed on why ships are needed, examples of science accomplishments or discoveries that would not have been possible without ships.
- **Update of UNOLS Fleet Improvement Plan - MEETING FOCUS**
- **Global Class SMRs - see slides**

October FIC Meeting Summary

Agenda Items and Activities

- **Establish ADA Guidelines**
 - Terry Whitley drafted a White Paper – ADA Guidelines for Research Vessels
 - UNOLS Task – form subcommittee
- **Ocean Observatories** – Keep abreast of ORION Facility Needs
- **Ongoing Design and Construction Efforts** - Stay engaged in *ARRV* and *Marcus Langseth* Conversion Effort
- *Kilo Moana* – Follow-up on issues previously identified - FIC Chair and U.Hawaii discussions planned.
- **Membership Changes**

Table of Contents

UNOLS Fleet Improvement Plan — 2005

(Revised October 5, 2005)

I. Executive Summary

II. Introduction

III. Identify Future Science Initiatives:

- A. Introduction (**why we need ships, etc**)
- B. Physical – Dave Hebert
- C. Biological – Terry Whitledge
- D. MG&G – Niall Slowey
- E. Chemical – Jim Bauer
- F. Education and Public Outreach – Clare Reimers
- G. Large Science Program Initiatives: - Toby Garfield
- H. Cross cutting initiatives (Observatories (broad)) – Jim Cochran

Table of Contents
UNOLS Fleet Improvement Plan — 2005
(Revised October 5, 2005)

IV. UNOLS, the Current Facility Composition and Utilization

A. The Role of UNOLS in Fleet Planning and Facility Management

B. Current UNOLS Facility Description

1. UNOLS – Academic Research Fleet
2. National Oceanographic Aircraft
3. National Deep Submergence Facility

C. Scheduling and operating modes

1. Facility scheduling process (current)

D. Fleet Utilizations - Annette

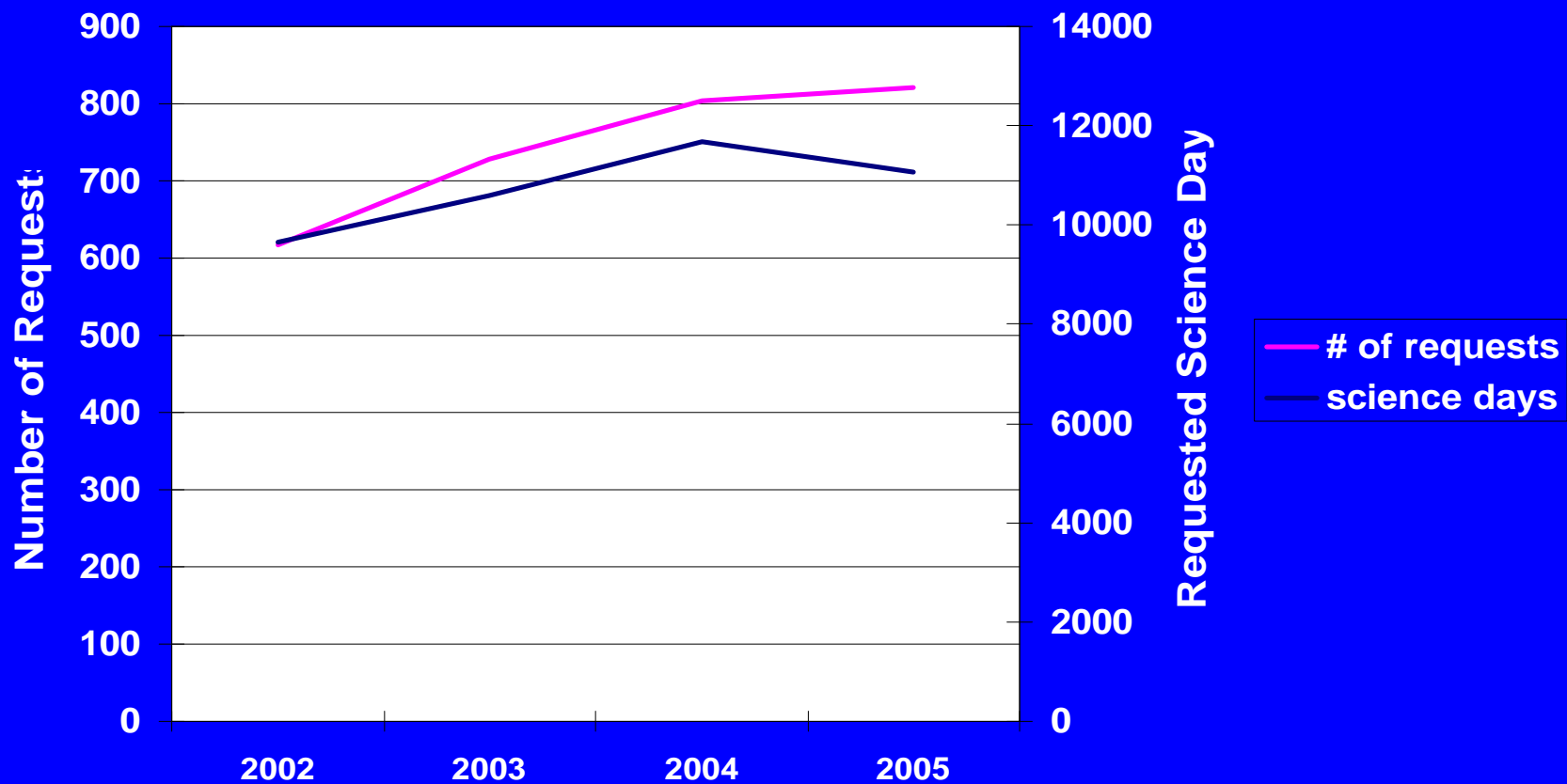
1. Past & present utilization
2. Geographical Utilization
3. Seasonal Utilization Trends:
4. Berthing Utilization
5. Fleet Costs
6. Agency Support trends

Table of Contents
UNOLS Fleet Improvement Plan — 2005
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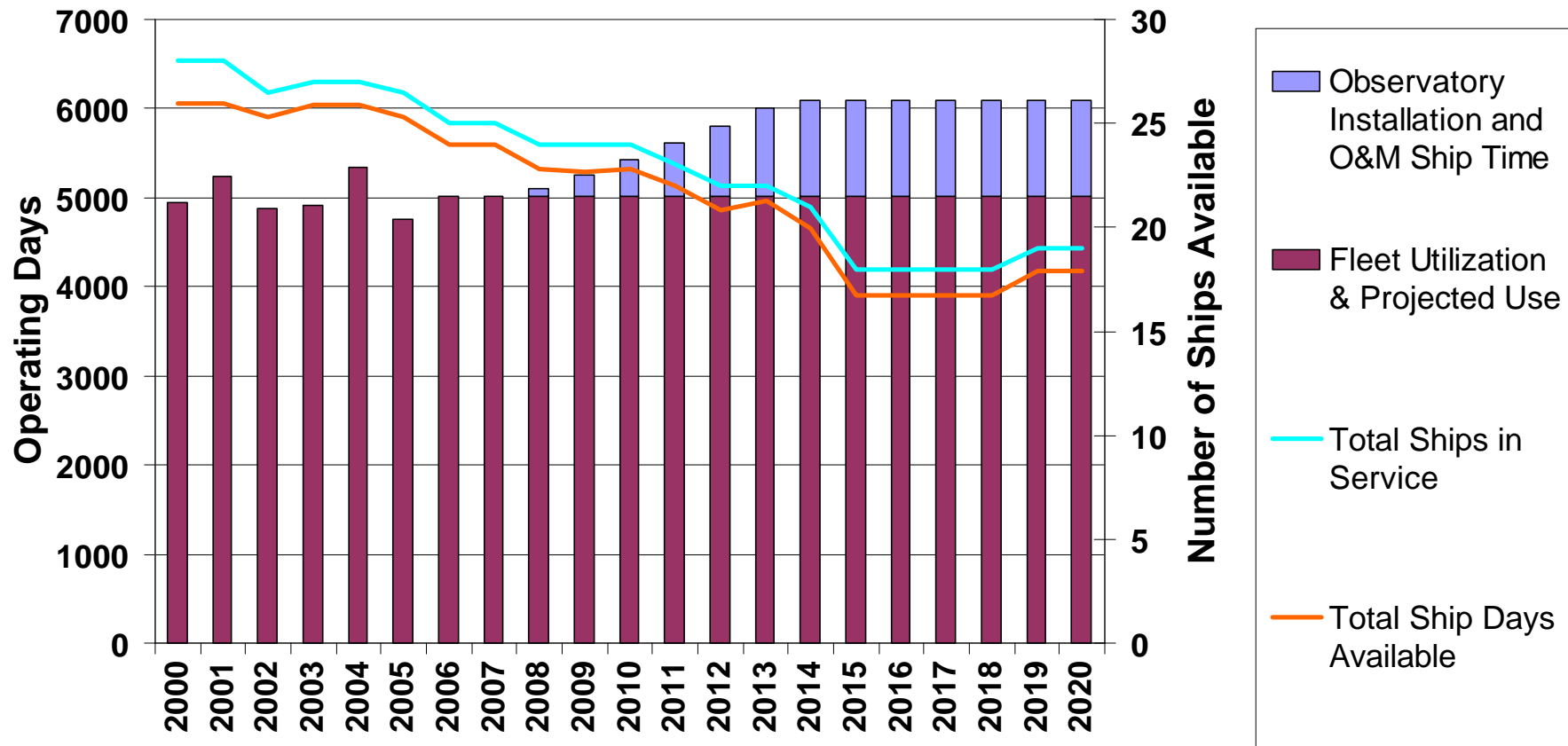
V. Future Fleet Utilization Projections and Future Requirements?

- A. UNOLS and FOFC Plan Fleet Projections; FOFC plan & basis for it**
- B. Addition of other facility projections (Ocean observatory, etc)**
- C. Other Facilities**
- D. Future scheduling needs – event**
- E. Updated vessel retirement dates and SLEP costs**
- F. Ship Construction Plans and realistic timelines**
- G. Shortfalls:**
 - 1. Differences between FOFC and UNOLS FIP
 - 2. Consequences of not carrying out SLEPs
 - 3. Tradeoffs between various scenarios
- H. Extensions and expansions beyond the FOFC Plan**

UNOLS Ship Time Demand



UNOLS Fleet Utilization and Projections (2000 - 2020)



Current Fleet vs. 2020 Fleet

Class	Number of Ships	Total # Science Berths in 2005	Days Available	Avg Op Days Used (03-05)		Number of Ships	Total # Science Berths (1)	Available Days
Global	6	199	1800	1594		4	130	1200
Ocean/ Intermedia	8	177	2200	1708		6	156	1650
Regional	3	39	400	469		3	60	600
NDSF Vehicles								
Fleet Total	17	415	4400	3771		13	346	3450

Notes: 1) Berths: Ocean Class = 25, *Kilo Moana* = 30, ARR V = 26, Regional = 20

General Purpose Global Vessel SMR Mid Life Refit considerations



2006 - *THOMPSON*

**Global Class SMR
Steering Committee
Formed**

Chair - Bruce Howe (UW)



2011 - *REVELLE*



2012 - *ATLANTIS*

Global Class SMR Update

- **Tasking:**
 - Produce Global Class General-Purpose SMR document.
 - As a follow-on activity incorporate Heavy Lift considerations, and Seismic Capabilities
- **Project Website:**
<http://www.unols.org/committees/fic/global/global_smr.html>
- **Upcoming Activity - Community Survey:**
 - UNOLS On-Line Form - November 2005.
 - Review preliminary response at Fall AGU.
 - Draft form:
http://www.unols.org/committees/fic/global/GCSMR_Survey_Form.html
 - ***Community input requested!***

FIC Membership Changes

- **First Terms ending in January 2006:**
 - **Clare E. Reimers, OSU – Willing to continue for a second term.**
 - **Ron Benner, USC – Stepping down when first term ends.**
- **A call for nominations will be announced for Ron's position.**

