

# **UNOLS Fleet Improvement Committee Meeting**



**Report to the UNOLS Membership**

**October 14, 2005**

**Summary of October FIC Meeting**

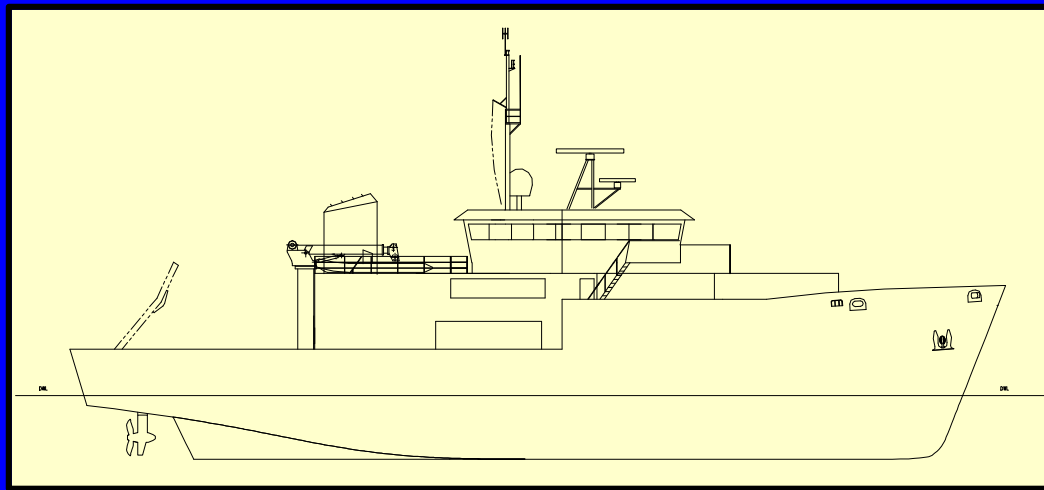
# Fleet Renewal Activities

- Regional Class Acquisition.
- Ocean Class Acquisition.
- Global Class SMR Development.
- Ocean Observatory Facility Needs.
- Ship Construction and Conversions

# Regional Class

## Regional Class:

- Provided feedback to NSF:
  - UNOLS Team representatives
  - Performance Specifications

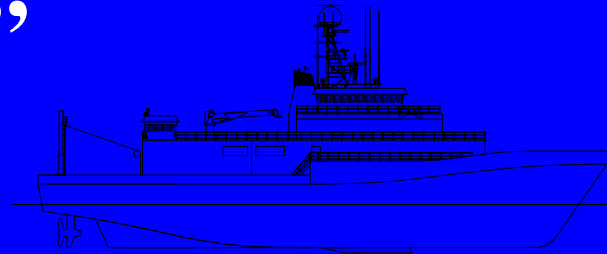


# Ocean Class

## Ocean Class:

- Provided a recommendation on hull form (Feb 2005)

*“Based on the information developed (See Appendix), UNOLS has reached the conclusion that the next ocean class ships should be monohulls.”*



- UNOLS poised to provide feedback

# 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](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.
  - *Community input requested!*

# Fleet Renewal Activities

## Ship Construction and Conversions:



Alaska Region  
Research Vessel

*Hugh R. Sharp*  
Construction



*Marcus Langseth*  
Conversion Effort



# **UNOLS Fleet Improvement Plan — 2005**

## **Table of Contents(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



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**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

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**UNOLS Fleet Improvement Plan — 2005**  
**(Revised October 5, 2005)**

**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**

**~ Working Draft Exists ~**

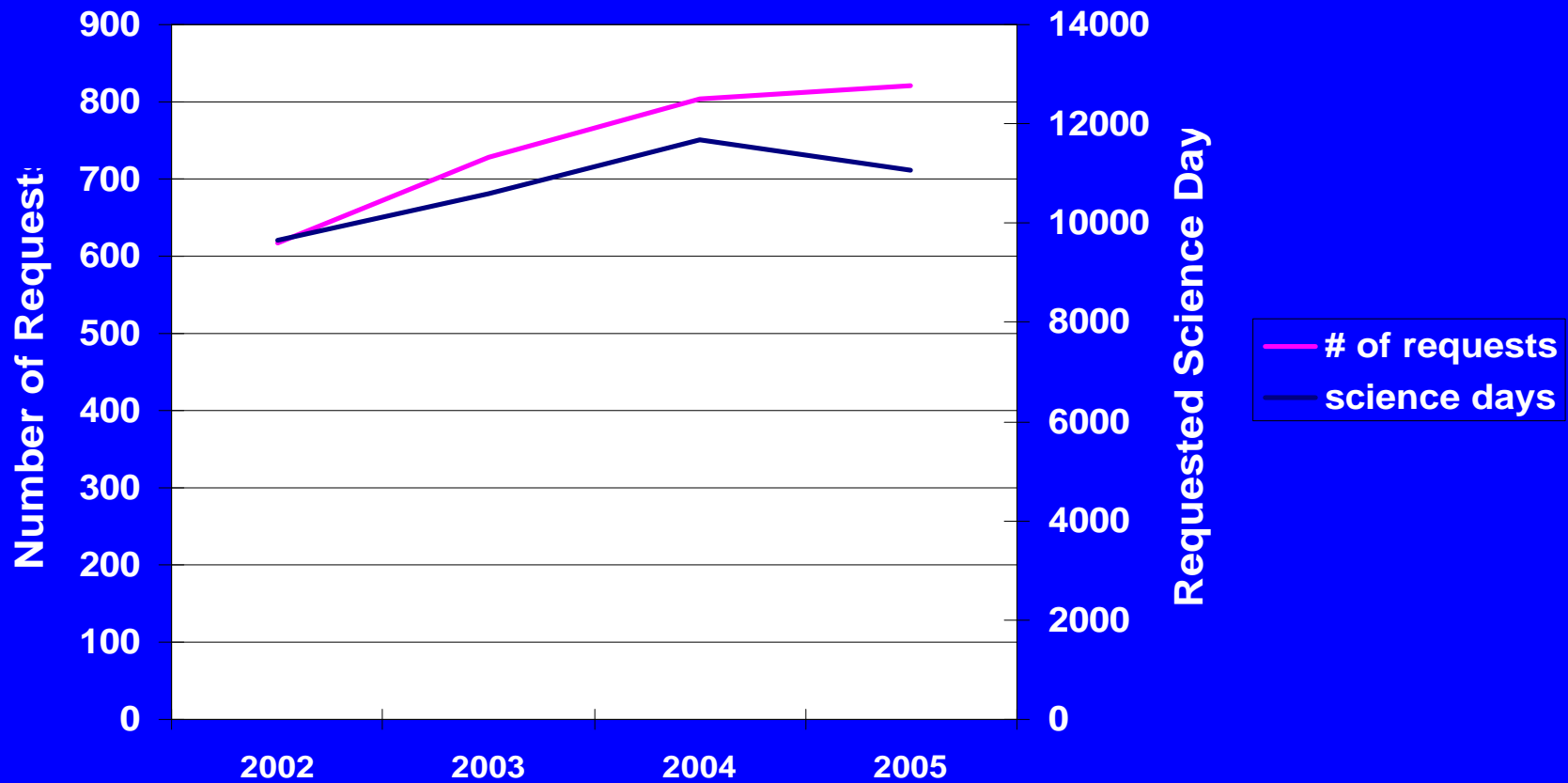
**~ Review Draft available in March 2006 ~**

# Current Fleet vs. 2020 Fleet

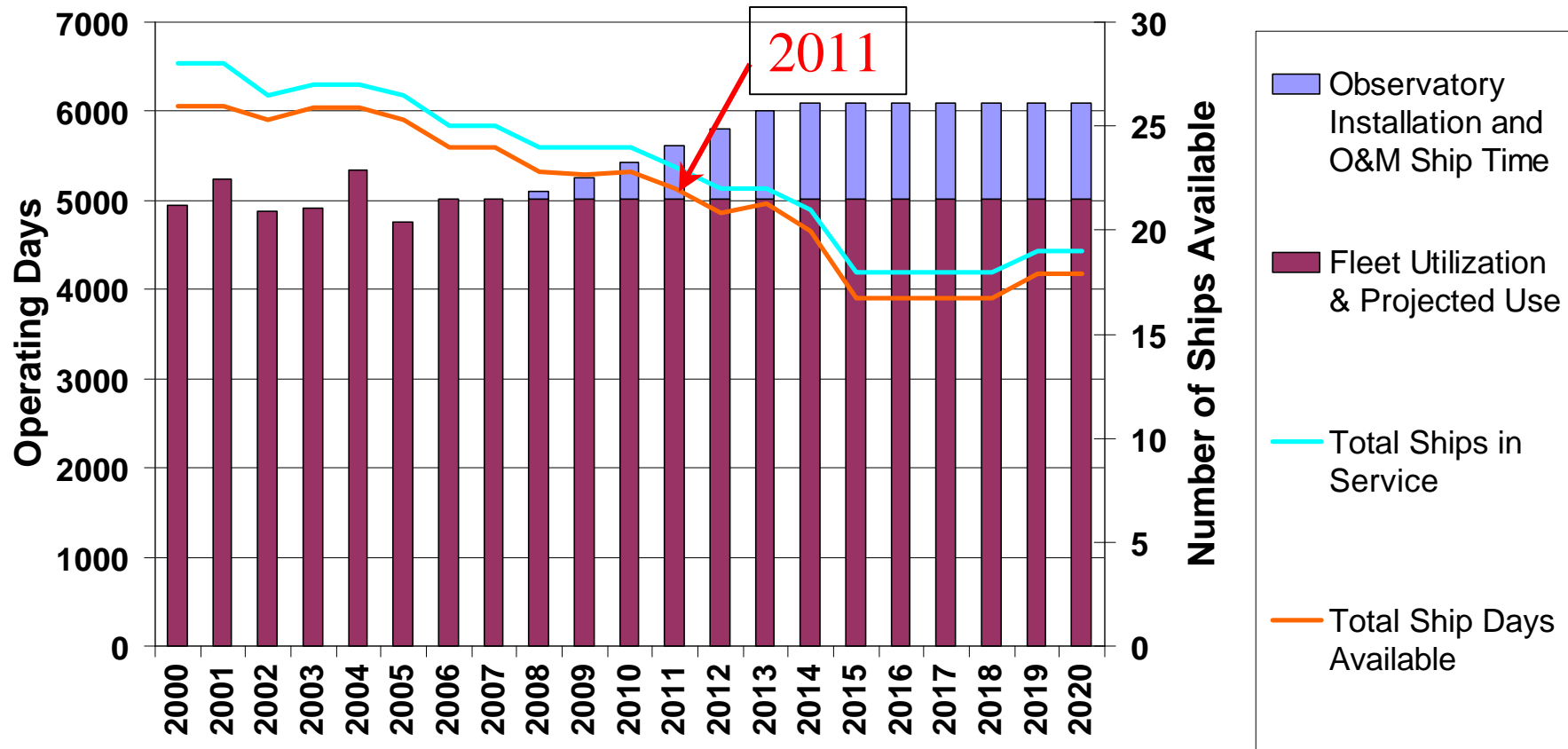
Class	Number of Ships	Total # Science Berths in 2005	Days Available	Avg Op Days Used (03-05)		Number of Ships	Total # Science Berths (1)	Available Days
Global	6	199	1800	1594		4	130	1200
Ocean/ Intermedia	8	177	2200	1708		6	156	1650
Regional	3	39	400	469		3	60	600
NDSF Vehicles								
<b>Fleet Total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

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

# UNOLS Ship Time Demand



## UNOLS Fleet Utilization and Projections (2000 - 2020)



# Other FIC Activities

- **Provide input to 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.
- **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
- ***Kilo Moana*** – Follow-up on issues previously identified - FIC Chair and U.Hawaii discussions planned.

# FIC Membership Changes

- **One position on FIC will open in January 2006**
- **A call for nominations will be announced. Volunteers are needed.**

