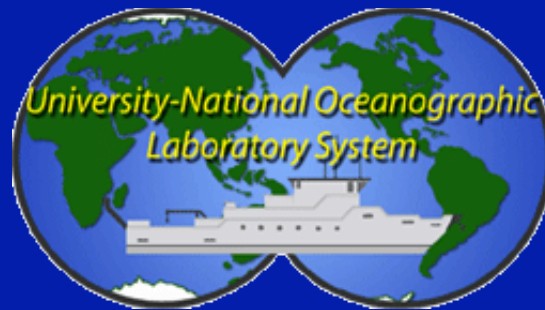


University-National Oceanographic Laboratory System

~UNOLS~



UNOLS Report to the
Deep Submergence Science Committee
June 19-20, 2014

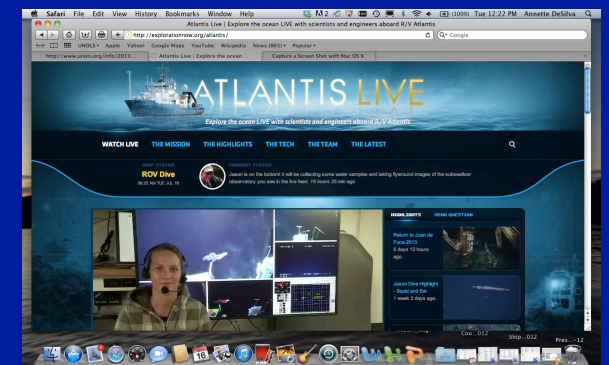




UNOLS Highlights

~ 2013/2014 ~

- Fleet Renewal Programs Continue
- Expanding the Reach of UNOLS Vessels
- Fleet Planning and Utilization
- Increased UNOLS Early Career Scientist Activities.





Fleet Renewal Activities

- **Global Class Vessels:**

- R/V *Sikuliaq* will enter service in 2014
- *Knorr* and *Melville* are slated to retire in 2014.
- Navy is planning mid-life refits for Global vessels - *Thompson*, *Revelle*, and *Atlantis*



- **Ocean Class Ships :**

- R/Vs *Neil Armstrong* and *Sally Ride* will be delivered in 2014 and 2015.

- **Regional Class Vessels:**

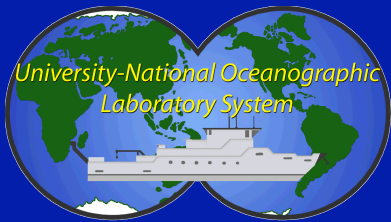
- Concept Design Review – Dec 3-5, 2013.
- Preliminary Design Phase with a review in Aug 2014.
- March of 2015- NSF will make a request to Congress for FY17 MREFC funds.
- Number of vessels will be based on projected science utilization and availability of funds.
- Operator selection is planned for mid-2017.
- R/V *Point Sur* – NSF will transfer ownership to MLML at the end of 2014.





Fleet Renewal Activities

Updated: March 2014																						
SHIP/CLASS	BUILT	Owner	LOA m (ft)	Science Berths	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022					
Global Class																						
<i>Melville</i>	1969	NAVY	85 (279)	38	---	---	---	---	--X													
<i>Knorr</i>	1970	NAVY	85 (279)	34	---	---	---	---	--X													
<i>Thomas G. Thompson</i>	1991	NAVY	84 (274)	36	---	---	---	---	---	M?	---	---	---	---	---	--X	---					
<i>Roger Revelle</i>	1996	NAVY	84 (274)	37	---	---	---	---	---	---	---	---	---	---	---	---	---					
<i>Atlantis</i>	1997	NAVY	84 (274)	37	---	---	---	---	---	---	---	---	---	---	---	---	---					
<i>Marcus G. Langseth</i>	1991	NSF	71 (235)	35	---	---	---	---	---	---	---	---	---	---	---	---	---					
<i>Sikuliaq</i>	2013	NSF	80 (261)	26						>---	---	---	---	---	---	---	---					
Ocean/Intermediate Class																						
<i>Kilo Moana</i>	2002	NAVY	57 (186)	29	---	---	---	---	---	---	---	---	---	---	---	---	---					
<i>Wecoma</i>	1976	NSF	56 (185)	18	---	--X																
<i>Endeavor</i>	1976	NSF	56 (184)	18	---	---	---	---	---	---	---	---	---	---	---	--X						
<i>Oceanus</i>	1976	NSF	56 (184)	19	---	---	---	---	---	---	---	---	---	---	---	--X						
<i>Atlantic Explorer</i>	1982	BIOS	51 (168)	20	---	---	---	---	---	---	---	---	---	---	---	---	---					
<i>New Horizon</i>	1978	SIO	52 (170)	19	---	---	---	---	---	---	---	---	--X									
<i>Neil Armstrong</i>	2014	NAVY	73 (238)	24						>---	---	---	---	---	---	---	---					
<i>Sally Ride</i>	2014	NAVY	73 (238)	24						>---	---	---	---	---	---	---	---					
Regional Class																						
<i>Point Sur</i>	1981	NSF	41 (135)	12	---	---	---	---	--X													
<i>Cape Hatteras</i>	1981	NSF	41 (135)	14	---	---	---	X														
<i>Hugh R. Sharp</i>	2005	UD	44 (146)	14	---	---	---	---	---	---	---	---	---	---	---	--M-	---					
<i>RCRV1</i>	2019	NSF	58 (191)	18											>---	---	---					
<i>RCRV2</i>	2020	NSF	58 (191)	18											>---	---	---					
<i>RCRV3</i>	2021	NSF	58 (191)	18												>---	---					
Coastal/Local Class																						
<i>Robert Gordon Sproul</i>	1981	SIO	38 (125)	12	---	---	---	---	---	---	---	---	--X									
<i>Pelican</i>	1985	LUMCON	32 (105)	14	---	---	---	---	---	---	---	---	---	---	--X							
<i>Walton Smith</i>	2000	Miami	30 (96)	16	---	---	---	---	---	---	--M-	---	---	---	---	---	---					
<i>Savannah</i>	2001	SKID/UG	28 (92)	19	---	---	---	---	---	---	---	--M-	---	---	---	---	---					
<i>Blue Heron</i>	1985	UMINN	26 (86)	6	---	---	---	---	---	---	---	---	---	---	---	---	---					
<i>Clifford Barnes</i>	1966	NSF	20 (66)	6	---	---	---	---	---	---	--X											
<i>Barnes Replacement</i>	2016	UW	20 (66)	6								>---	---	---	---	---	---					
Total Number of Vessels in Fleet					21	21	20	20	20	19	19	19	19	17	19	17	17					
X= Current projected Service Life End Date																						
M= Mid-life Refit																						



Optimizing and expanding the reach of the UNOLS Fleet

- Telepresence technology
 - UNOLS Pilot Program in 2013
 - New UNOLS vessels are being equipped to accommodate telepresence
- UNOLS Subcommittee on ship to shore communications
- Unmanned aircraft systems.
- Increased emphasis on early career scientist engagement and training

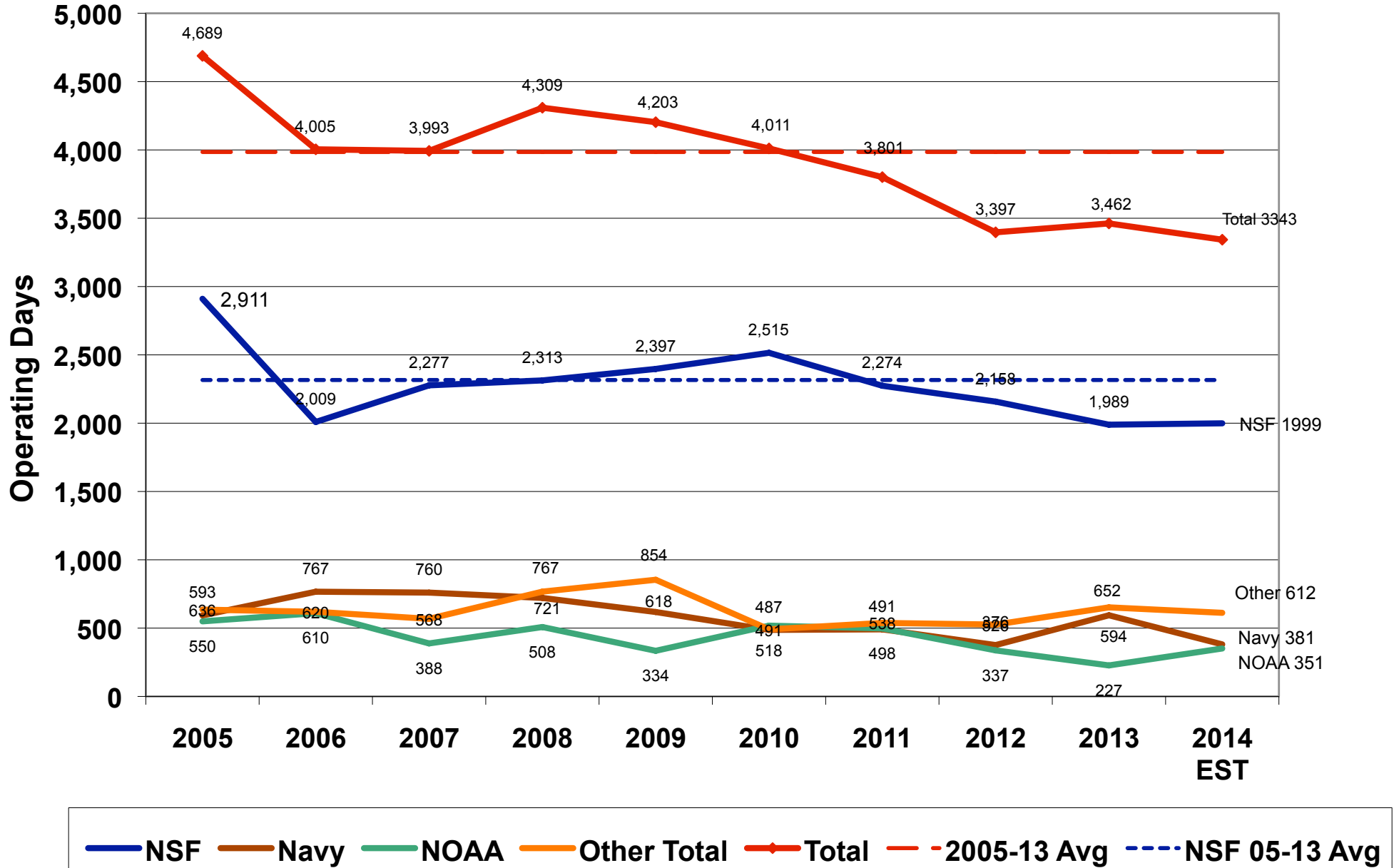




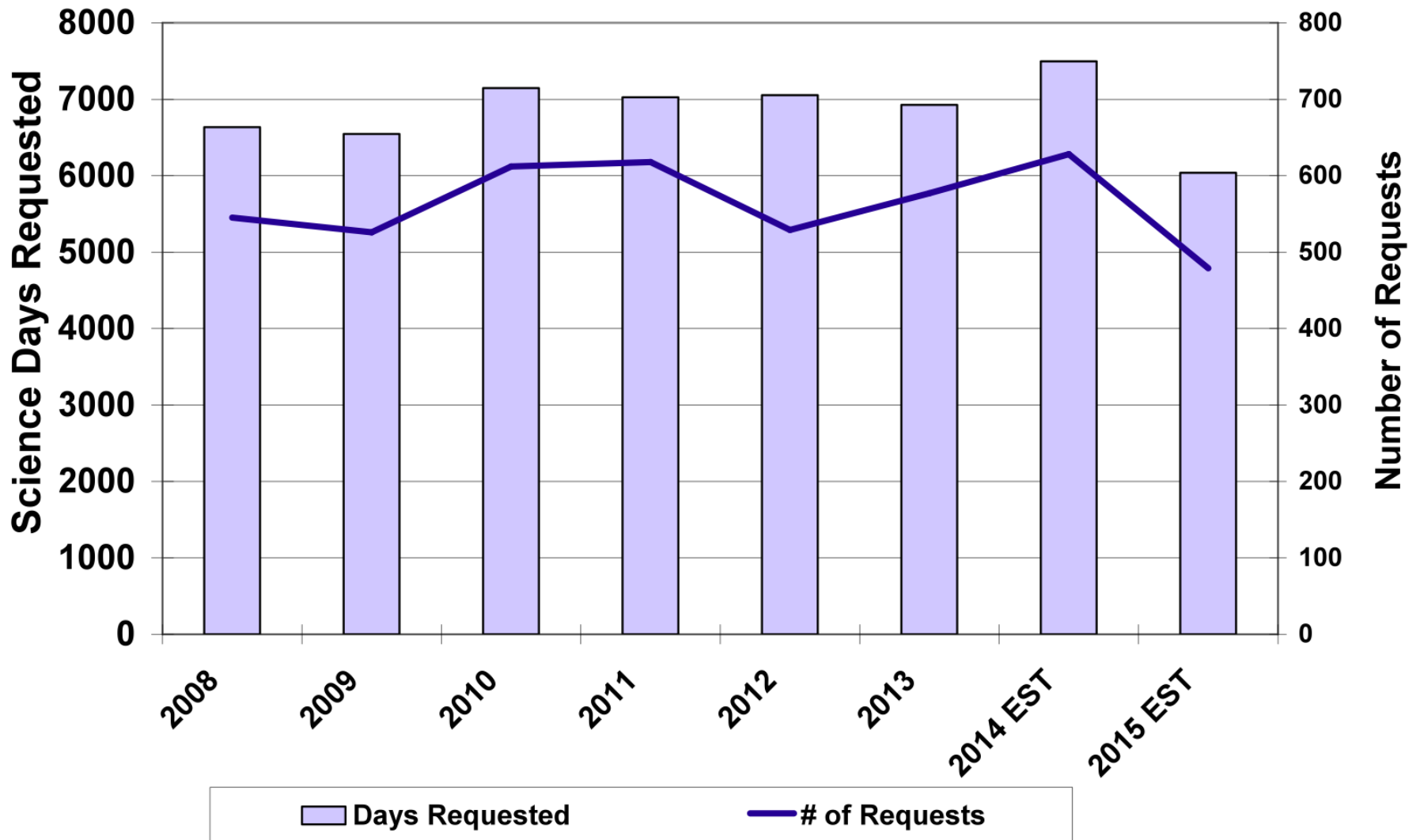
UNOLS Fleet Planning

- Fleet Improvement Plan
 - The Fleet Improvement Committee is currently drafting an updated Fleet Improvement Plan
 - The new Plan will be a “living” Document
- NSF Letter Regarding the Number of RCRVs
 - Letter from Bob Houtman to UNOLS requesting feedback regarding the number of RCRVs that should be built and strategies for supporting the future Fleet.
 - A FIC subcommittee is preparing a response that will be vetted through the UNOLS Council.

UNOLS Fleet Utilization (2005 - 2014)



Ship Time Request Demand





UNOLS Early Career Activities

- Chief Scientist Training Cruises:
 - 2011 through 2013: Pilot Program lead by Clare Reimers. Four cruises on *Wecoma*, *New Horizon*, and *Endeavor*
 - 2014:
 - *Atlantic Explorer*: June Cruise with Maureen Conti as PI
 - *Point Sur*: multiple cruises planned in the fall. Applications are being accepted.
 - Potential cruises: *Sharp* and *Blue Heron*
- UNOLS Early Career Scientist Workshops:
 - DeSSC – 2011 to 2013, December AGU in San Francisco
 - MLSOC – 2013, December AGU in San Francisco
 - FIC – 2014 Council March Meeting
 - 2014 Ocean Sciences – Jon Alberts, Annette DeSilva, FIC Chair, and UNOLS Chair-Elect participated in NSF's early career workshop.



Thank you!