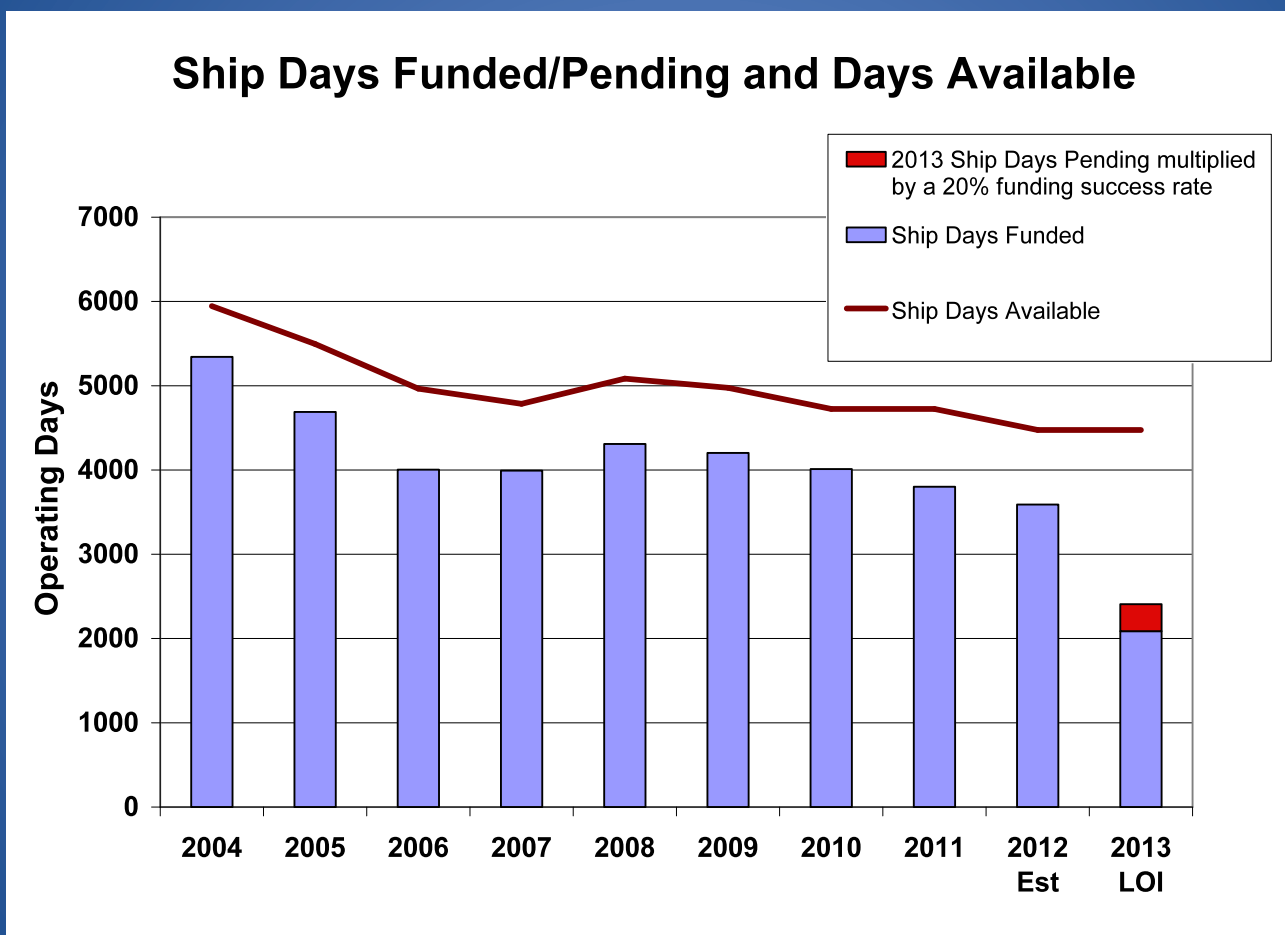


FOY Definitions

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At issue is how we define fleet capacity now and in the future



June 1, 2012 figure -Days available based on old FOY estimates

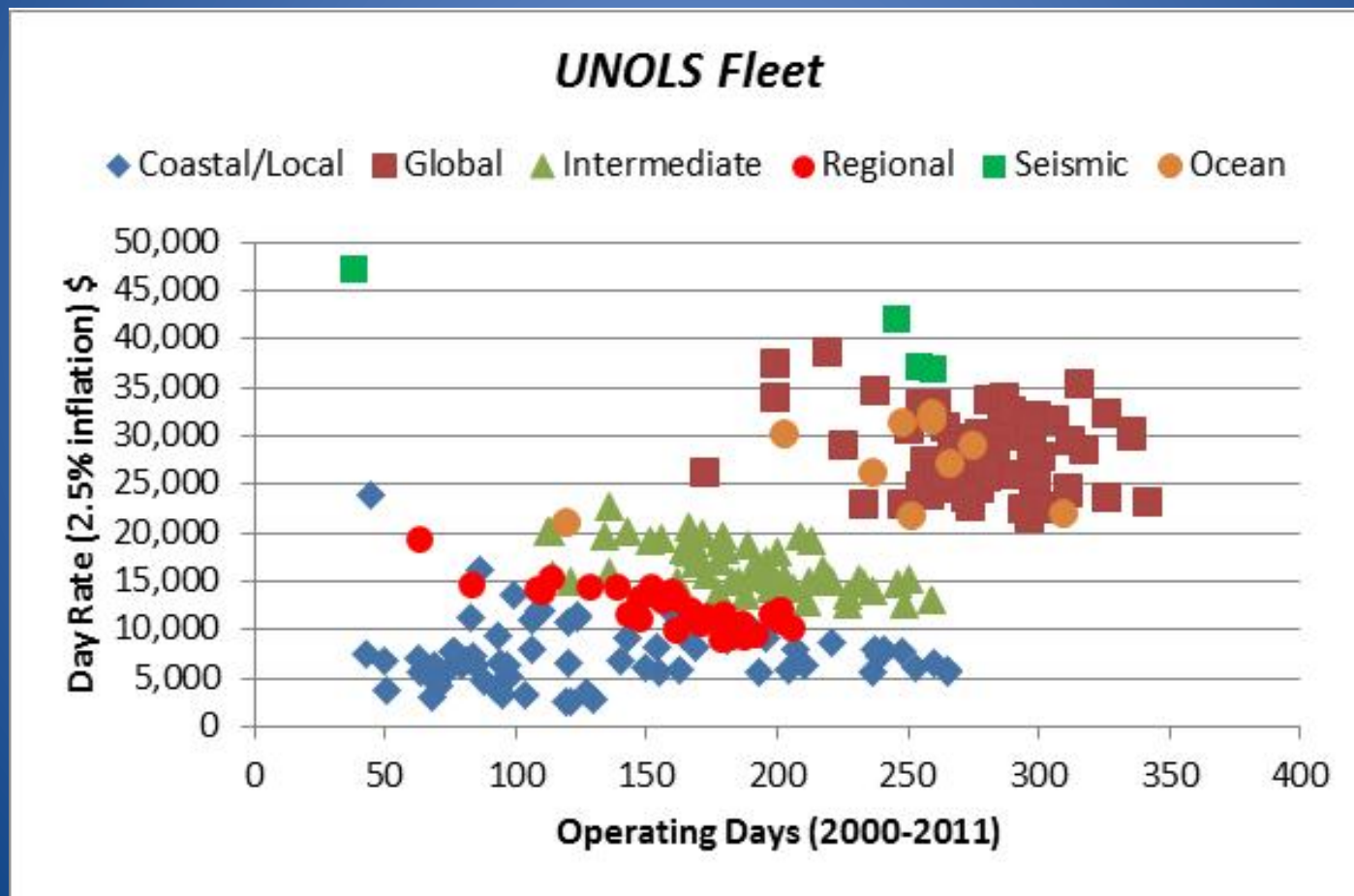
From 2009 FIP FOY by old class definitions

<u>Full Optimal Year Definitions:</u>	Days
Global	300
Ocean	275
Intermediate	250
Regional	200
Regional/Coastal	180
Local	110

Table 3. Full Optimal Year (FOY) Definitions

These definitions do not fully take in to account different operational requirements dictated by vessel differences, region (e.g. Great Lakes), typical cruise duration and science mission, crewing etc.

Ideally FOY = sweet spot for reducing vessel day rates and optimizing maintenance and should be tuned to each vessel



Recent FIC Actions

- October 2012, Memo from FIC Chair to Mar Sups asking for FOY assessments
- February 2013, new assessment table distributed, corrections received and incorporated

Proposed New Definitions based on Operator Responses

1-Mar-13							
SHIP/CLASS	BUILT	Conv/ Mid Life	Owner	LOA m (ft)	Science Berths	FOY (days) ±10	Other Considerations
Global Class							
<i>Melville</i>	1969	1991	NAVY	85 (279)	38	300	4-5 days between cruises optimal for globals
<i>Knorr</i>	1970	1989	NAVY	85 (279)	34	300	
<i>Thomas G. Thompson</i>	1991		NAVY	84 (274)	36	300	
<i>Roger Revelle</i>	1996		NAVY	84 (274)	37	300	
<i>Atlantis</i>	1997		NAVY	84 (274)	37	300	
<i>Marcus G. Langseth</i>	1991	2007-2011	NSF	71 (235)	35	300	# under discussion as special purpose vessel
<i>Sikuliaq</i>	2013		NSF	80 (261)	26	300	
Ocean/Intermediate Class							
<i>Kilo Moana</i>	2002		NAVY	57 (186)	29	290	
<i>Endeavor</i>	1976	1993	NSF	56 (184)	18	220	
<i>Oceanus</i>	1976	1994	NSF	56 (184)	19	220	
<i>Atlantic Explorer</i>	1982	2006	BIOS	51 (168)	20	220	
<i>New Horizon</i>	1978	1996	SIO	52 (170)	19	220	
<i>Neil Armstrong</i>	2014		NAVY			290	
<i>AGOR 28</i>	2014		NAVY			290	
Regional Class							
<i>Point Sur</i>	1981		NSF	41 (135)	12	165	
<i>Hugh R. Sharp</i>	2005		UD	44 (146)	14	190	
<i>RCRV1</i>	2019		NSF			220	
<i>RCRV2</i>	2020		NSF			220	
<i>RCRV3</i>	2021		NSF			220	
Coastal/Local Class							
<i>Robert Gordon Sproul</i>	1981	1985	SIO	38 (125)	12	200	
<i>Pelican</i>	1985	2003	LUMCON	32 (105)	14	220	
<i>Walton Smith</i>	2000		Miami	30 (96)	16	170	
<i>Savannah</i>	2001		SKID/UG	28 (92)	19	155	
<i>Blue Heron</i>	1985	1999	UMINN	26 (86)	6	90	Limited by lake ice cover
<i>Clifford Barnes</i>	1966	1984	NSF	20 (66)	6	110	At more than 120 days need to add crew

Next Steps

- Finalize these FOY numbers
- Factor new FOY numbers into days available vs. days scheduled for 2013 and 2014
- Continue discussions of fleet “right sizing” based on new capacity projections