



UNOLS Annual Meeting

IWG-FI Status Update

Robert S. Winokur

RDML Philip M. Kenul

15 Oct 2010



IWG-FI

Facilities and Infrastructure



- JSOST subgroup
 - Focus on policy, procedure, and planning related to oceanographic facility use, platforms, networks and systems upgrades, and investment
 - Includes novel and emerging technologies
 - Emphasize cooperative interactions with UNOLS



Federal Oceanographic Fleet (>40M)



Owner	Class	Purpose	Name	Length (ft)	Delivery Date	Projected End of Service ¹
EPA	Ocean	MPS	<i>Bold</i>	224	1989	2025
EPA	Ocean	MPR	<i>Lake Guardian</i>	180	1981	2025
Institution (UNOLS ²)	Intermediate	MPR	<i>Seward Johnson</i>	204	1985	2015
Institution (UNOLS ²)	Intermediate	MPR	<i>New Horizon</i>	170	1978	2016
Institution (UNOLS ²)	Regional	MPR	<i>Atlantic Explorer³</i>	161	1982	2026
Navy	Global	MPS	<i>Pathfinder</i>	328	1994	2024
Navy	Global	MPS	<i>Sumner</i>	328	1995	2025
Navy	Global	MPS	<i>Bowditch</i>	328	1995	2025
Navy	Global	MPS	<i>Henson</i>	328	1998	2029
Navy	Global	MPS	<i>Bruce C. Heezen</i>	328	2000	2030
Navy	Global	MPS	<i>Mary Sears</i>	328	2001	2031
Navy	Ocean	MPS	<i>John McDonnell</i>	208	1991	2021
Navy (UNOLS ²)	Global	MPR	<i>Melville</i>	279	1969	2014
Navy (UNOLS ²)	Global	MPR	<i>Knorr</i>	279	1970	2015
Navy (UNOLS ²)	Global	MPR	<i>Thomas G. Thompson</i>	274	1991	2021
Navy (UNOLS ²)	Global	MPR	<i>Roger Revelle</i>	274	1996	2026
Navy (UNOLS ²)	Global	MPR	<i>Atlantis</i>	274	1997	2027
Navy (UNOLS ²)	Ocean	MPR	<i>Kilo Moana</i>	185	2002	2032
NOAA	Global	MPS	<i>Rainier</i>	231	1968	2015
NOAA	Global	MPS	<i>Fairweather</i>	231	1968	2019
NOAA	Global	MPR	<i>Ronald H. Brown</i>	274	1997	2026
NOAA	Ocean	FSV	<i>Albatross IV</i>	187	1963	2007
NOAA	Ocean	FSV	<i>Miller Freeman</i>	215	1967	2008
NOAA	Ocean	FSV	<i>Oscar Elton Sette</i>	224	1988	2021
NOAA	Ocean	FSV	<i>Gordon Gunter</i>	224	1989	2024
NOAA	Ocean	FSV	<i>Oscar Dyson</i>	209	2004	2033

To be retired



IWG-FI Activities



- Joint Workshop for Ocean and Coastal Interests in the Arctic
 - IWG-FI and Ocean Partnerships
- Overview of Arctic Policy
- Agency Operations, Infrastructure, Research and Partnerships
 - Ensure familiarity with federal arctic portfolio and initiatives
- Future Interagency Steps
 - Identify and prioritize Interagency goals
 - Define Infrastructure requirements
 - Conduct resource (\$) gap analysis



Task Force on Unmanned Systems (TFUS)



- Established Jan 2010
- Provides advice on policies, procedures, and plans relating to unmanned system uses, upgrades, and investments
- The Scope of the TFUS includes:
 - Autonomous Underwater Vehicles (AUV)
 - Gliders
 - Unmanned Aircraft Systems (UAS)
 - Unmanned Surface Vessels (USV)
 - Lagrangian Platforms (floats, drifters)



TFUS Functions



1. Collect and review the operations, management methods, and capabilities of the growing federal usage of unmanned systems and, when appropriate, recommend common standards and lifecycle infrastructure approaches to assist federal oceanographic and atmospheric sponsors and facility managers;
2. Provide a forum for the exchange of information on long-range plans regarding the acquisition, operation, or development of new capabilities of unmanned systems;
3. Improve planning, coordination, and communication among federal sponsors and facility managers in the conduct of joint field programs and technology demonstrations utilizing unmanned systems;
4. Address interagency governance and policy questions of unmanned systems;
5. Monitor national and international oceanographic and atmospheric unmanned system activities for potential application to the federal facility mix; formulate and hold community workshops as needed.
6. Serve as a single Federal point of contact for coordinating between operating agencies and legal entities at the state or federal level involving unmanned system usage.



TFUS



- Identified Priority Issues:
 - An inventory of unmanned systems:
 - Ownership: Government / Academic / Private
 - Application: Research / Operations
 - In - Hand / Planned Acquisition
 - November Workshop on Common Lifecycle Infrastructure – Opportunities for joint Federal Activities and/or Facilities
 - Identification of Roadblocks to Full Utilization of UAS
 - A Federal Unmanned Systems Strategy Document
 - Coupled Atmospheric-Ocean and Air-Sea Interface Modeling - Unmanned Systems for Routine and Adaptive Sampling
 - Unmanned Systems in other countries' EEZs
 - Collision Avoidance Liability



IWG-FI Activities



- Federal ocean infrastructure inventory crosscut (Priority 9 OPTF)
- Priority 9- “Ocean, Coastal, and Great Lakes Observations, Mapping, and Infrastructure- Strengthen and integrate Federal and non-Federal ocean observing systems, sensors, data collection platforms, data management, and mapping capabilities into a national system, and integrate that system into international observation efforts
 - Robust, integrated systems required to support expanding infrastructure needs
 - New approaches required for cost effective solutions to rapidly expanding emerging technologies
 - Arctic infrastructure capacity limited
 - Interagency coordination required for shared utilization



National Ocean Council



- July 2010- Executive Order: Stewardship of the Ocean, Our Coasts, and the Great Lakes
 - Endorsed Recommendations of OPTF
 - 9 Priority Areas, each with their own Strategic Action Plan (SAP)
- IWG-FI, IWG-OCM and IOOC contacted to aid in the development of the SAP for Priority 9
- Meeting scheduled for 20 Oct