

# **IWG-F Status Report**

## **Federal Facilities and Infrastructure Inventory**

**Robert Winokur**

**Chair, Interagency Working Group-  
Facilities**

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# Terms of Reference

- **Focus on shared-use federal assets for ORPP implementation**
- **Structured around a data call to the agencies**
- **Shared-use assets include federally-owned and/or federally-operated facilities and infrastructure**
- **Two phase study – Initial efforts focused on phase 1 only**
- **Coordinate with JSOST**
- **Coordinate with proposed OSB infrastructure study**

# Phase 1 - TOR

- **Develop guiding principles for determining shared-use facilities for ORPP**
- **Used guiding principles for agency data call**
  - Retired assets awaiting disposition
  - Operating assets
  - Assets under construction
  - Assets proposed in FY09 budget
  - Assets in conceptual stage under consideration
- **Resolve ambiguities**
- **Use data call to define trends, areas of diminishing or increasing capability/capacity**
- **Report, including recommendations for use in budget development**

## Phase 2 - TOR

- **Contingent on results from phase 1**
- **Integrate agency plans**
- **Identify priority areas necessary for ORPP implementation**
- **Identify priority gaps and issues**
- **Develop “facilities and infrastructure implementation strategy”**

# Status

- **IWG-F held one full meeting**
- **Second meeting scheduled for early Oct**
- **Status and way forward briefed to JSOST – guidance to focus on ORPP research priorities within six themes**
- **Intent is complete initial inventory early CY2009**
- **Organization and initial data call underway, but is problematic**

## Feedback from June JSOST meeting

### JSOST Suggestion:

- **IWG-F modify approach to defining the "guiding principles" - use the Research Priorities identified in the ORPP as the basic framework for the guiding principles**

# Way Ahead

- **Begin with the four Near-Term Priorities identified in the ORPP**
  - Work with the agency leads responsible for the Near-Term Priorities to initiate the process
  - Deciding which tools are necessary, concentrating on those inventories first
- **Expand data call to 20 research priorities identified in the six themes**
  - Modify matrix as appropriate based on lessons learned from four Near-Term Priorities

# Initial Matrix – The way ahead

- **Details the four priorities and the tools necessary to implement them**
  - Built using the information in the ORPP, NOT meant to be all inclusive
- **Work with the team leads to fully develop and populate the matrix**
- **Develop an initial inventory of common (shared-use) and unique facilities and infrastructure needs for the Near-Term Priorities.**



# Infrastructure Requirements

		Theme					
		Stewardship of Natural and Cultural Ocean Resources	Increasing resilience to natural hazards	Enabling Marine Operations	Ocean's Role in Climate	Improving Ecosystem Health	Enhancing Human Health
<b>Necessary Tools</b>							
Expanded & technologically advanced fleet	X					X	
Unmanned & autonomous vehicles	X			X	X	X	X
Fixed & Mobile observing platforms	X		X	X	X	X	X
Biological & Chemical sensors	X					X	X
Advanced acoustic & mapping capabilities	X			X		X	
Enhanced IT & data support	X		X	X	X		
Geospatial Information Systems (GIS)	X		X				
Technical & scientific personnel	X					X	
Training & maintaining the workforce	X					X	
Advanced computational resources			X		X		
Advanced model capability			X				X
Assessment methodologies				X			
Shore-based Marine laboratories							X

# Initial Matrix – Infrastructure Requirements

	Infrastructure Requirements			
	Near-Term Priorities			
	Forecasting the Response of Coastal Ecosystems	Comparative Analysis of Marine Ecosystem Organization	Sensors for Marine Ecosystems	Assessing Meridional Overturning Circulation Variability
<b>Necessary Tools</b>				
Ocean observation data	X	X	X	X
Biological observations	X			
Coupled research, observations and model development	X			
Data linked to public-health surveillance activities	X			
Data sets and modeling capabilities	X	X	X	X
Data networks	X			
Models – energy budget, dynamic, now-casting, climate, circulation		X		X
Mapping efforts		X		X
Satellite-based observations			X	X
In-situ instrumentation			X	X
Advanced and expanded sensor capabilities - physical, chemical, satellite-based			X	X
Advanced power supply and data transfer technology			X	

# Data Call

- **Shared use facilities and infrastructure:**
  - Retired assets awaiting disposition
  - Current operating assets
  - Assets under construction
  - Assets planned in FY09 budget
  - Assets under consideration for the future

# Issues

- **Identifying specific infrastructure needs for the remaining 20 priorities may be problematic since these priorities do not have a specific lead agencies identified**
- **Anticipate that as the Inventory moves forward that additional JSOST member agencies will be involved in populating a complete matrix – Need JSOST agency involvement**

# Back to the Future

- **Completed Federal Oceanographic Fleet Status Report**
- **Recent focus at IWG-F has been on Facilities and Infrastructure for the future**
- **Time to re-focus on ships as well – FOFC**
- **Welcome UNOLS participation**

