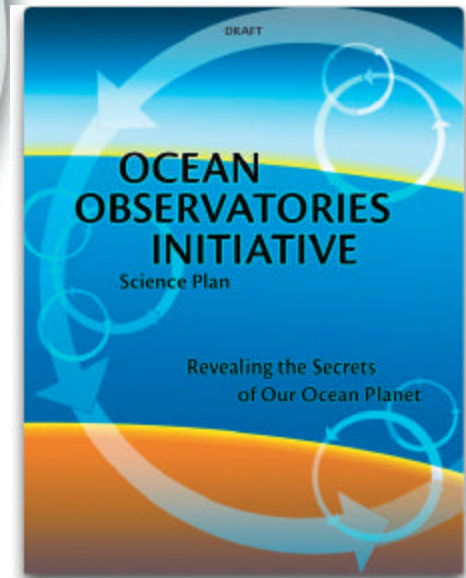
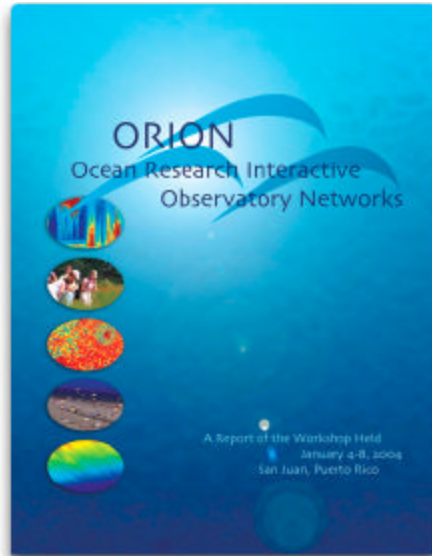


# OOI/ORION - Update



Dec 2005



## OOI Funding Profile

(Dollars in Millions)

	Concept/ Development		Implementation		Operations & Maintenance		Totals		<b>Grand Total</b>
	R&RA	MREFC	R&RA	MREFC	R&RA	MREFC	R&RA	MREFC	
FY 2003 & Earlier	15.50						\$15.50	\$0.00	<b>15.50</b>
FY 2004	3.00						\$3.00	\$0.00	<b>3.00</b>
FY 2005 Current Plan	4.00						\$4.00	\$0.00	<b>4.00</b>
FY 2006 Request	4.00						\$4.00	\$0.00	<b>4.00</b>
FY 2007 Estimate	4.00			13.50	3.00		\$7.00	\$13.50	<b>20.50</b>
FY 2008 Estimate				42.00	7.00		\$7.00	\$42.00	<b>49.00</b>
FY 2009 Estimate				65.50	12.00		\$12.00	\$65.50	<b>77.50</b>
FY 2010 Estimate				66.90	20.00		\$20.00	\$66.90	<b>86.90</b>
FY 2011 Estimate				46.20	30.00		\$30.00	\$46.20	<b>76.20</b>
FY 2012 Estimate				35.00	50.00		\$50.00	\$35.00	<b>85.00</b>
FY 2013 Estimate					50.00		\$50.00	\$0.00	<b>50.00</b>
Subtotal, R&RA	\$30.50		\$0.00		\$172.00		\$202.50		
Subtotal, MREFC		\$0.00		\$269.10		\$0.00		\$269.10	
<b>Total, Each Stage</b>	<b>\$30.50</b>		<b>\$269.10</b>		<b>\$172.00</b>				<b>\$471.60</b>

NOTE: A steady state of about \$50.0 million in operations support is expected to occur in or about FY 2012. The expected operational lifespan of this project is 30 years, beginning in FY 2011. Operations estimates for FY 2008 and beyond are developed strictly for planning purposes and are based on current cost profiles. They will be updated as new information becomes available.



# OOI/ORION Activities

- Staffing the Project Office and establishment of Implementing Organizations (IOs),
- Establishing advisory committees to facilitate communications with the community, and
- Engaging the community in the observatory network design to insure that observatory research opportunities are maximized (RFA and D&I Workshop).

# ORION Project Office

- Rick Jahnke - acting ORION Program Director; JOI in final stages of hiring a permanent, full-time ORION Program Director who will start in 2006,
- Stu Williams - hired in Fall 2005 as OOI Project Manager
- Peter Milne; Emily Griffin - additional staff in ORION Office
- Sharing staff with JOI/IODP to provide expertise in Project Management Control Systems/Earned Value Management and Cyberinfrastructure

# Implementing Organizations

In 2006 the ORION Program Office will be soliciting proposals for Implementing Organizations (IOs) for management of the procurement and installation of observatory networks for the NSF-funded Ocean Observatories Initiative leading to the operation of these facilities for the ORION Program.

An IO may consist of an academic institution, a consortia of academic institutions or an academic-industry partnership

Separate IOs may be chosen for the coastal, RCO and global components of the OOI, as well as cyberinfrastructure



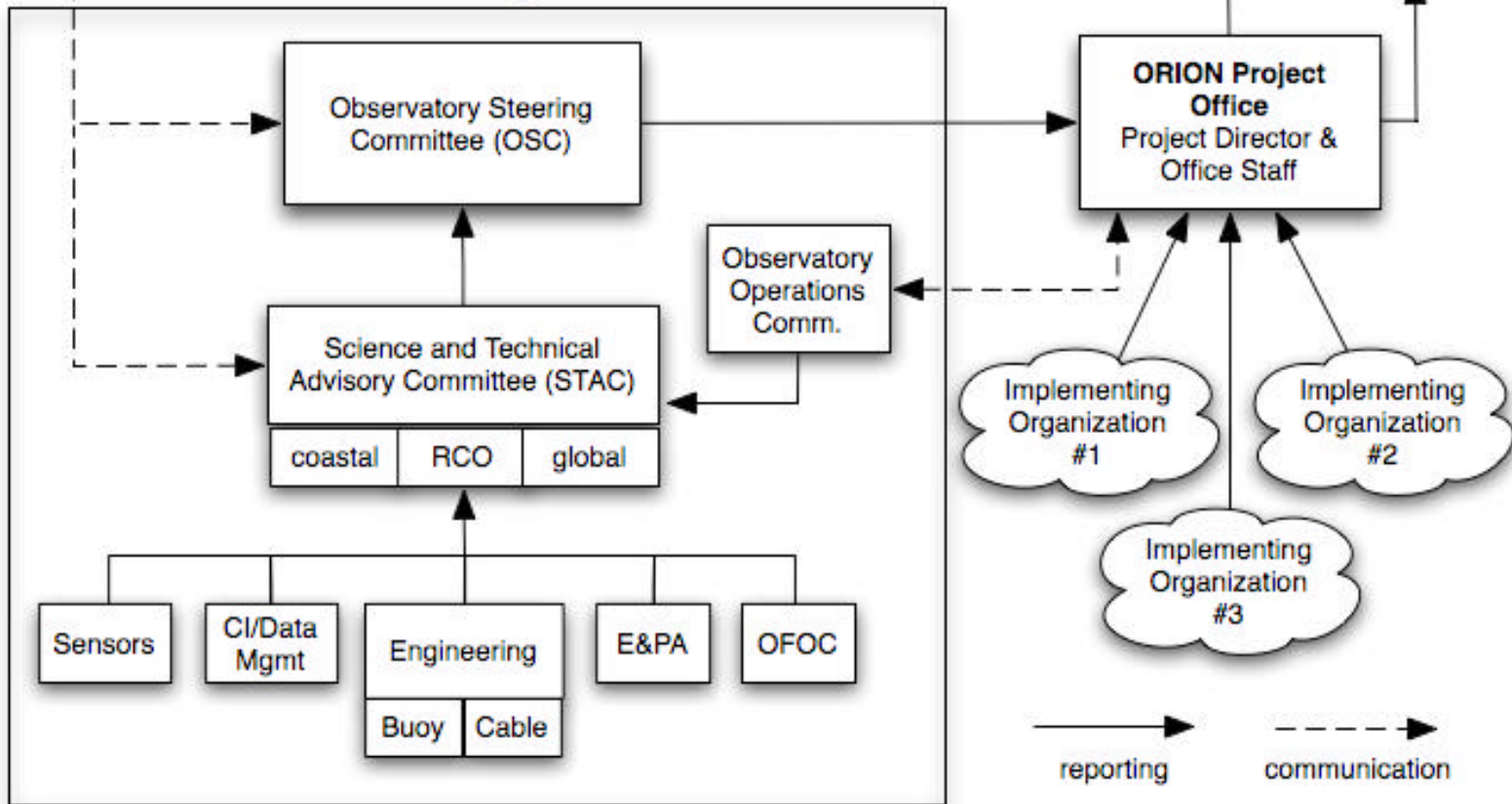
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Int'l  
observatory  
partners

### ORION Advisory Structure





# ORION Advisory Committees

- **Observatory Steering Committee** - Chair, R. Detrick (WHOI)
- **Science and Technical Advisory Committee** - Chair, D. Luther (Hawaii)
- **Engineering Committee** - Chair, K. Raybould (MBARI)
- **Cyberinfrastructure Committee** - Chair, L. Mayer (New Hampshire)
- **Sensors Committee** - Chair, K. Daly (South Florida)
- **Education & Public Awareness Committee** - Chair, G. Matsumoto (MBARI)





# OOI/ORION Activities

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# Request for Assistance (RFA) Response

**Total number of investigators involved = 550**

**130 Academic Instit., Gov. Labs, and Companies**

**33 states, 4 Canadian Provinces, Japan, and France**

**Total Proposals = 48**

**26 Coastal, 15 Regional, 7 global**

## WORKSHOP ANNOUNCEMENT

### Ocean Research Interactive Observatory Networks (ORION) Design & Implementation Workshop



**ORION-D&I Workshop**  
**Salt Lake City, Utah**  
**27-30 March 2006**  
**Marriott Downtown**

### Mark Your Calendar!

Visit the ORION website, express your interest and sign up for updates  
ORION website: [www.orionprogram.org](http://www.orionprogram.org)  
Email: [oriondi@joiscience.org](mailto:oriondi@joiscience.org)

The centerpiece of ORION is the Ocean Observatories Initiative (OOI), an ambitious plan to develop and deploy \$269M in observing infrastructure for research purposes.

In the coming months, the ORION engineering team and advisory committees will develop a preliminary design of the OOI infrastructure based on NSF-facilitated panel evaluation of the recently submitted Request for Assistance (RFA) proposals, as well as previous workshop and planning documents. This preliminary design will be presented to the research community at the ORION-D&I workshop (27-30 March 2006) where participants will have the opportunity to provide comments and feedback.

The results of the ORION-D&I workshop will enable the engineering team to revise and refine the observatory design. In addition, the workshop will provide an opportunity for collaborative groups to begin developing integrated research projects. We strongly encourage participation in implementing this community facility.

#### Organizing Committee

Kendra Daly (chair), University of South Florida  
Mark Moline (co-chair), Cal Poly  
Keith Raybould (co-chair), Monterey Bay Aquarium Research Institute  
Bob Detrick, Woods Hole Oceanographic Institution  
Rick Jahnke, Skidaway Institute of Oceanography  
Doug Luther, University of Hawaii  
George Matsumoto, Monterey Bay Aquarium Research Institute  
Larry Mayer, University of New Hampshire



# OOI/ORION Milestones

- Jan. 06 - RFP for RCO and CI IOs
- Feb. 06 - draft OOI implementation plan completed
- Mar. 06 - ORION Design & Implementation Workshop
- Jun. 06 - RFP for Global and Coastal IOs
- Summer 07 - RCO Phase 1 (NEPTUNE-Canada) installed
- May-Sept. 07 - OOI construction proposal prepared and approved by NSB
- Fall 07 - Construction phase of OOI begins; lasts through 2012

<http://www.orionprogram.org/>



A screenshot of a web browser displaying the ORION website. The browser's address bar shows "http://www.orionprogram.org/". The website has a navigation menu with items like "Search Tools", "Personal", "WHOI", "Other Institutions", "Journals", "Research", "Research (computer)", "Finance", "News", and "Shopping". The main content area features a header with the ORION logo and the text "Ocean Research Interactive Observatory Networks". A left sidebar contains a list of links: "What is the OOI?", "Office Information", "OOI Capabilities", "News &amp; Announcements", "Documents &amp; Glossary", "Links", "San Juan Workshop", "Request for Assistance", and "Contact Us". The main text includes a "Welcome" section with a paragraph about the ORION program, an image of a cabled network of sensors on the sea floor with a caption, and a "News &amp; Announcements" section with a post from Jan. 31, 2005, titled "ORION Project Office RFA". The ORION logo is also present in the bottom right corner of the page content.



One element of the ocean observatories actively being planned for is a cabled network of linked sensors and submersibles spread out over the sea floor.

## Welcome

The Ocean Research Interactive Observatory Networks (ORION) is a program that focuses the science, technology, education and outreach of an emerging network of science driven ocean observing systems. Building on the heritage of the ship-based expeditionary era of the last century, oceanography is commencing a new phase in which research scientists increasingly seek continuous interaction with the ocean environment to adaptively observe the earth-ocean-atmosphere system. Such approaches are crucial to resolving the full range of episodicity and temporal change central to so many ocean processes that directly impact human society, our climate and the incredible range of natural phenomena found in the largest ecosystem of the planet.

The ORION initiative is managed through an award made by the National Science Foundation to the 1201 Group LLC, an entity jointly owned by Joint Oceanographic Institutions (JOI) and the Consortium for Oceanographic Research and Education (CORE) on behalf of their member universities and academic organizations.

## News & Announcements

Posted: Jan. 31, 2005

### ORION Project Office RFA

The ORION Project Office announces a Request for Assistance in the form of a call for proposals in support of Conceptual Science Experiments of the OOI Infrastructure. The RFA may be downloaded [here](#) (PDF, 178 KB). Persons interested in this RFA are asked to check the RFA web pages periodically for additional information

[More about the OOI Science RFA...](#)

