



Ocean Observatories Initiative

Overview

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for Science Oversight Committee



Workshop and/or Report Title	Year
International Conference on the Ocean Observing System for Climate	1999
Developing Submergence Science in the Next Decade (DESCEND)	1999
Symposium on Seafloor Science	2000
Ocean Sciences at the New Millennium	2001
Integrated and Sustained Ocean Observing System Workshop	2002
Office of Naval Research/Marine Technology Society Buoy Workshop	2002
Scientific Cabled Observatories for Time-Series (SCOTS)	2002
Coastal Ocean Processes and Observatories: Advancing Coastal Research	2002
Autonomous and Lagrangian Platforms and Sensors (ALPS)	2003
Implementation Plan for the DEOS Global Network of Moored-Buoy Observatories	2003
NEPTUNE Pacific Northwest Workshop	2003
Biological and Chemical Instrumentation in the Ocean	2003
Links between OOI and IODP Workshop	2003
REgional Cabled Observatory Network (of Networks) (RECONN)	2003
Technical Issues Related to Cable Re-use	2003
Coastal Observatory Research Arrays (CORA): A Framework for Implementation Planning	2003
Ocean Research Interactive Observatory Networks (ORION)	2004

Table 1. A list of some of the many workshops and/or reports that have called for sustained ocean observations. All propose building permanent observing capabilities in the world's oceans. Links to many of the reports can be found in the Library link at <http://www.coreocean.org/>.

The National Science Board approves the OOI as a NSF MREFC Project (Oct 2000)



NSF-Ocean Sciences releases **Ocean Sciences at the New Millennium** (Spring 2001)



NSF funds the Monterey Accelerated Research Systems (MARS) cabled-observatory test bed in Monterey Bay (Sep 2002)

ORION Workshop held in San Juan, Puerto Rico for OOI science and education planning (Jan 2004)



Project Office established at JOI (Mar 2004)



OOI is listed in the President's FY2007 as a new MREFC start at \$309.5M (Feb 2006)

Ocean Observatories Initiative Science Plan (May 2005)



Joint Subcommittee on Ocean Science & Technology releases **Charting the Course for the Ocean Science in the US for the Next Decade: An Ocean Research Priorities Plan & Implementation Strategy** (Jan 2007)

Installation of cable for NEPTUNE Canada begins (Aug 2007)



OOI Coastal/Global IO awarded to WHOI (Aug 2007)



OOI Final Design Review, Arlington, VA (Nov 2008)

Cost & Schedule and Science Review (Mar 2009)

2000 2001 2002 2003 2004 2005 2006 2007 2008 2009



NRC releases **Illuminating the Hidden Planet: The Future of Seafloor Observatory Science** (Dec 2000)



W.M. Keck Foundation grants award for proto-NEPTUNE experiment (July 2001)

NOPP funds NEPTUNE system engineering, program office & science planning (Mar 2002)



NRC releases **Enabling Ocean Research in the 21st century: Implementation of a Network of Ocean Observatories** (Spring-Summer 2003)

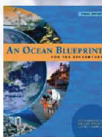


The Pew Oceans Commission releases **America's Living Oceans: Charting a Course for Sea Change** (June 2003)

Request For Assistance for Conceptual Science Experiment to help with the design of the OOI released (Apr 2005)



Design & Implementation Workshop, Salt Lake City, UT; presented draft **Conceptual Network Design** for community comment (Mar 2006)



The U.S. Commission on Ocean Policy releases **An Ocean Blueprint for the 21st Century, Final Report** (Sep 2004)

Revised Conceptual Network Design Release (Jun 2006)

OOI Conceptual Design Review, Moss Landing, CA (Aug 2006)

Conceptual Network Design Revised Infrastructure Plan Released (Mar 2007)



OOI Regional Cabled Nodes Design Support Services awarded to UW (Mar 2007)

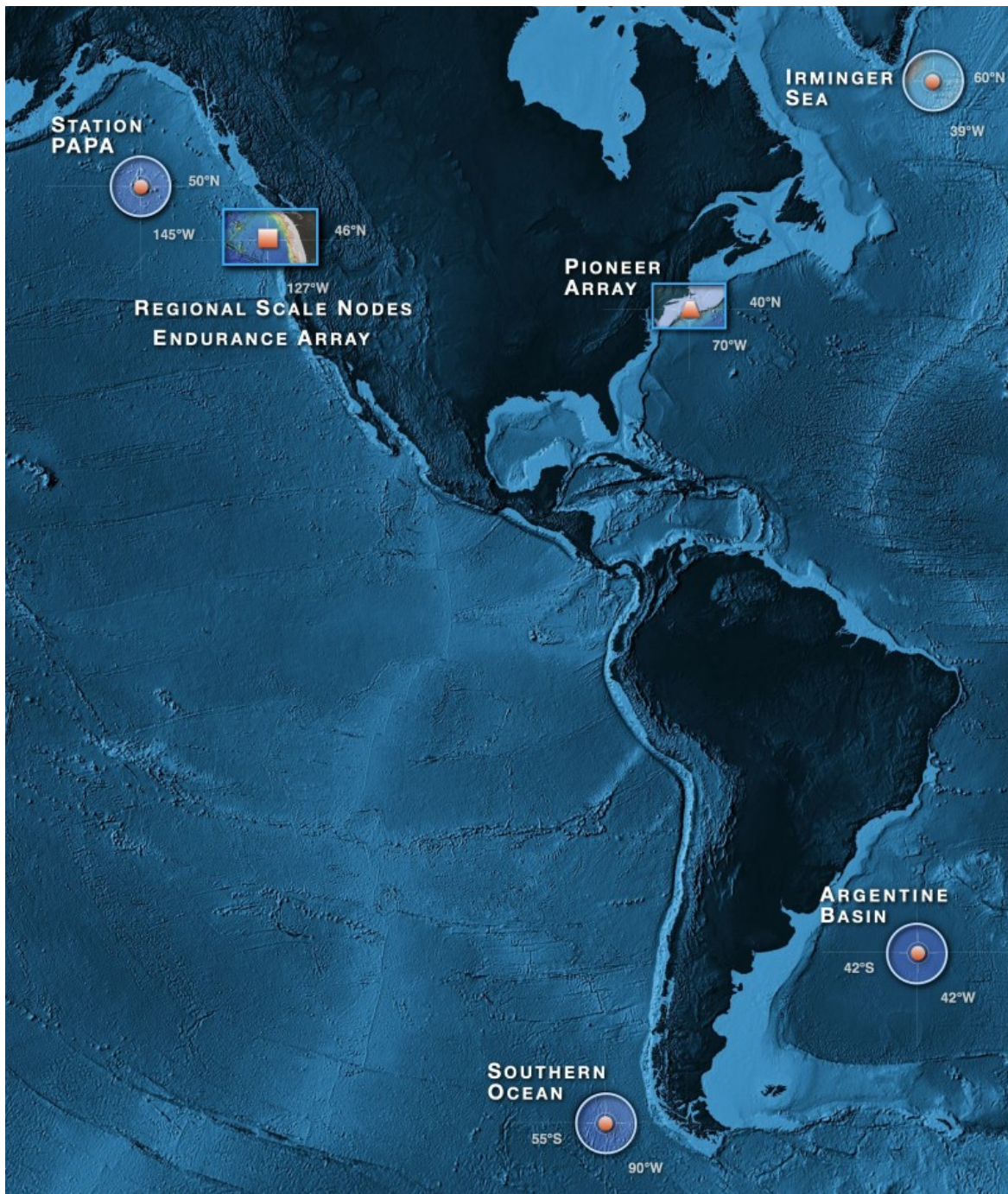


OOI Preliminary Design Review, Arlington, VA (Dec 2007)



National Science Board authorization for funding (May 2009)

Construction funding begins (Sept 2009)



Select critical locations, of high science impact yet data sparse due to challenging nature

Deploy cutting edge platforms

Equip with multidisciplinary sensors

Provide as much real time data as possible

Provide as much interactive capability as possible

Provide additional bandwidth and carrying capacity

Launch crucial long-term measurements that resolve high frequencies and episodic events

Make all data available



Ocean Observatories Initiative

- OOI Cyberinfrastructure Team
 - Scott, Oscar, Manish
- Endurance and Coastal Cabled Array
 - Jack, Orest
- Pioneer Array
 - Al
- Q and A