

The Ocean Observatories Initiative (OOI)
Update
UNOLS Fleet Improvement Committee Meeting

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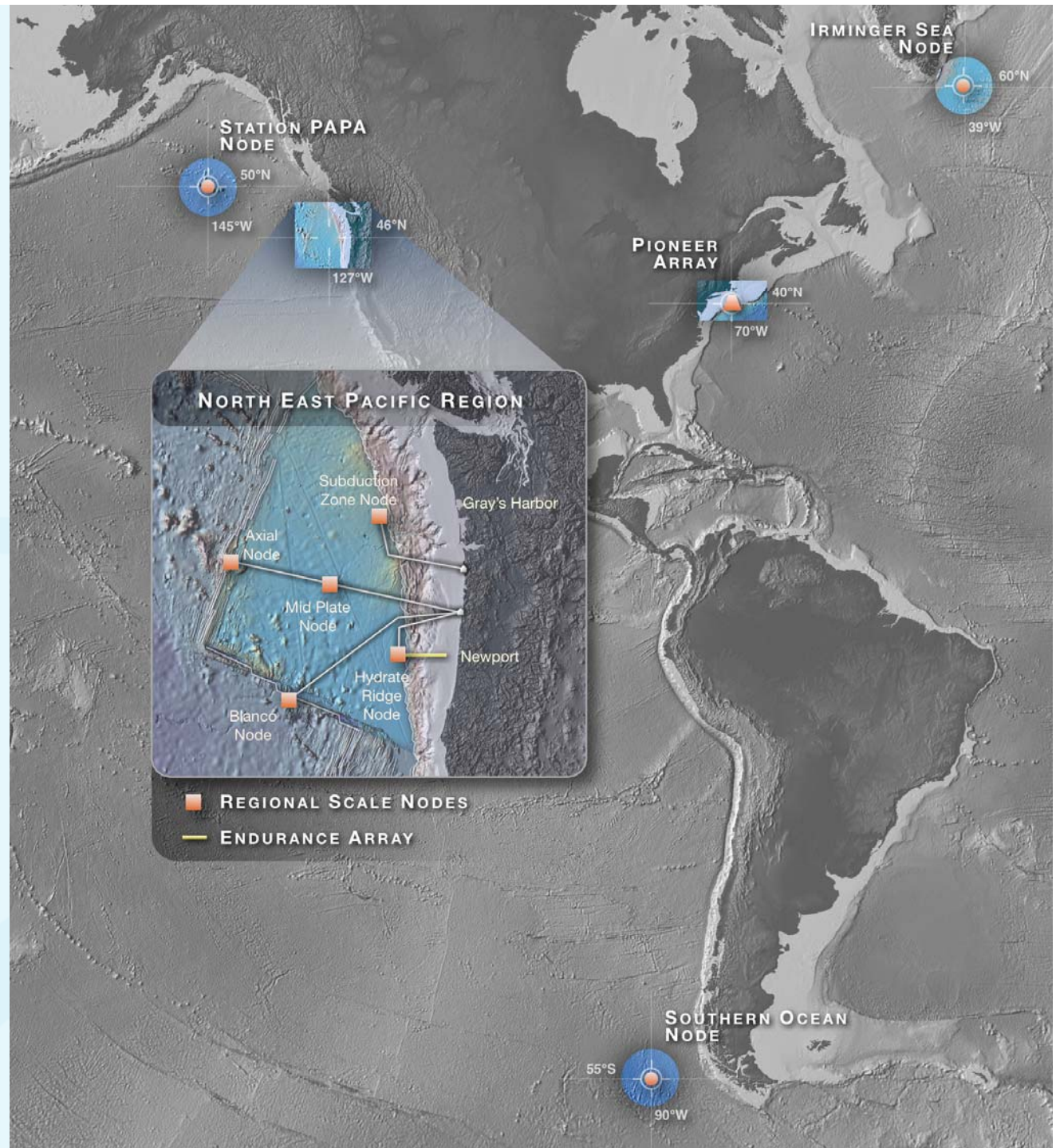
OOI in 2007

- NSF/MREFC Capital Investment: \$331M over five years
- Operation Funding: Ramping to \$50M annually
- Design lifetime: 25 years
- Successful Conceptual Design Review, August 2006
- OOI funding included in FY 2008 Request
- Successful Preliminary Design Review, December 2007

Current Status

- OOI funding profile absent in FY 2009 request
- FY 2010 request pending successful Final Design Review in November 2008
- National Science Board in spring 2009
- Pending NSB approval, construction to start in summer 2010
- Interim period: demonstration projects, reduce risks, prepare for acquisitions

- 3 Global scale nodes in Southern Ocean, Ocean Station Papa, Irminger Sea
- 5 Regional scale nodes in NE Pacific, cabled plate-scale observatory
- Coastal scale assets in Mid- Atlantic Bight shelf-break (Pioneer Array) and NE Pacific continental slope (Endurance line)
- Each scale incorporates mobile assets
- Cyberinfrastructure to enable adaptive sampling, custom observatory view, collaborative analysis
- Interfaces for education and public engagement



OOI Estimated Days at Sea - Oct 2008

Infrastructure	Vessel Class	Days at Sea by year						
		2011	2012	2013	2014	2015	2016	2017
<i>Atlantic</i>								
Pioneer Array	Intermediate			18	18	18	18	18
	< 80 ft.		4	12	12	12	12	12
Irminger Sea	Global				28	28	28	28
<i>Pacific</i>								
Regional Scale Nodes	Cable vessel		30	20	20	20	20	20
	Global+ROV			30	60	60	60	60
Station Papa	Global			22	22	22	22	22
Southern Ocean	Global					24	24	24
Endurance Array - OR	Global+ROV	4	0	0	5	5	5	5
	Intermediate	6	9	5	10	14	14	14
Total by vessel class	Cable vessel	0	30	20	20	20	20	20
UNOLS	Global	0	0	22	50	74	74	74
	Global+ROV	4	0	30	65	65	65	65
	Intermediate	6	9	23	28	32	32	32
	< 80 ft.	0	4	12	12	12	12	12