UNOLS Fleet Improvement Committee Meeting

February 6-7, 2008

FIC Action Items

Task Description	Action/ Status
Global Class: Update with community input and reformat to using the template for Ocean/Regional Class	Mike Prince
KILO MOANA Actions:	
• **Contact Brian Taylor to keep abreast of Handling System details.**	Dave H.
• Draft EOS or other appropriate article	Dave and Brian Taylor

FIC Action Items

Design and Constructions Efforts - Stay engaged in ongoing design and construction efforts (Regional Class, Ocean Class, ARRV, *Langseth* Conversion, etc.)	FIC
Fleet Improvement Plan Update: • Update charts so that all vessels are retired (including local class) • Revise the ship days funded slide so that there is a differentiation between federally funded ship time and other funded (state/inst) ship time. • Complete drafts of all sections. Final draft should be available by the time of the next FIC/Council meeting.	Annette Annette FIC & Office
Ocean Observatories – Stay in contact with OOI Office.	Dave Hebert

FIC Action Items

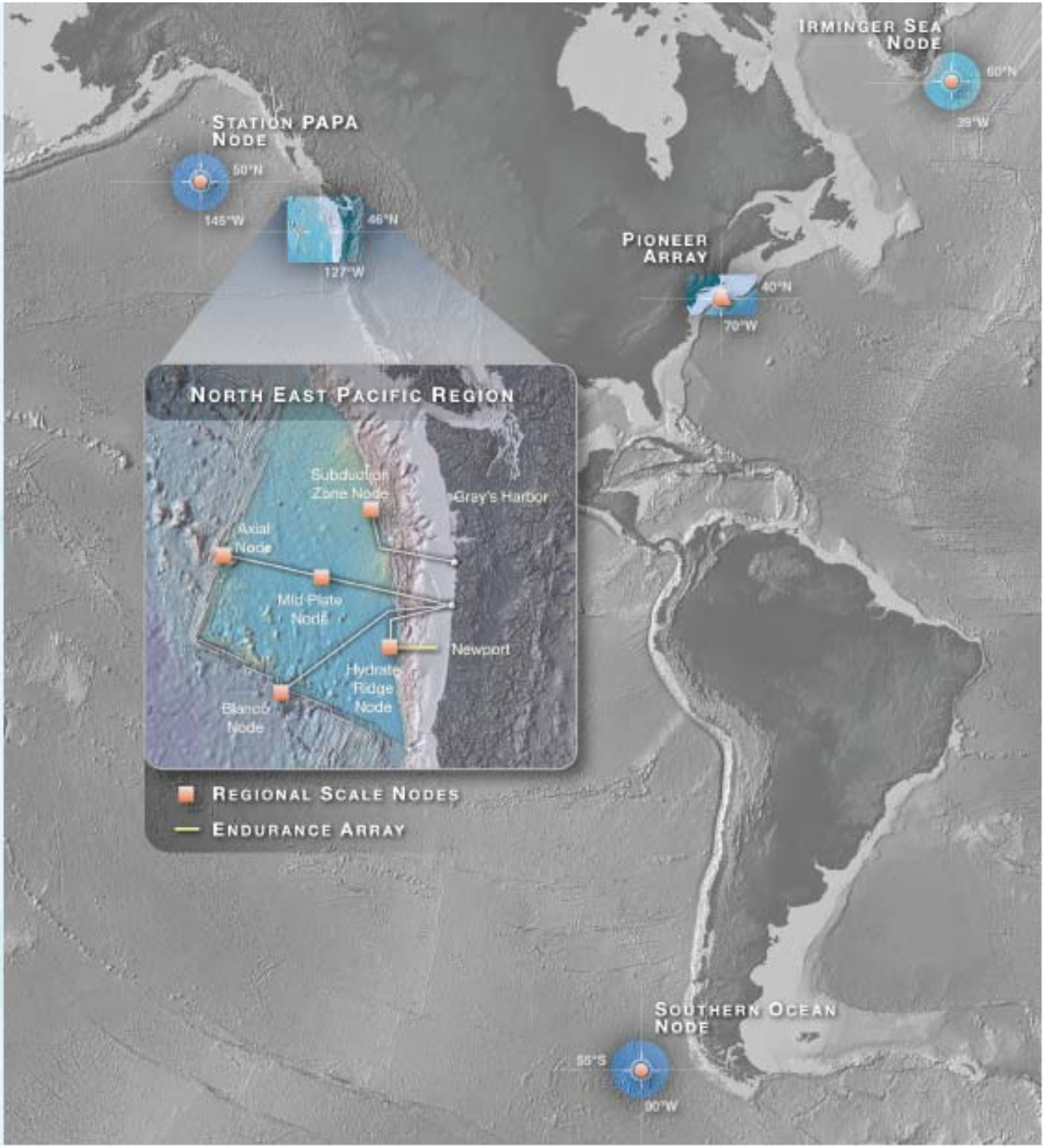
ADA Guidelines: • Incorporate FIC and ADA Committee Comments and finalize document.	Terry Whitledge
Science User Debriefs for R/V *Hugh Sharp* - Dave working with Matt Hawkins will draft user debrief questions that will evaluate the new technologies of the ship. • Conduct debrief interviews with *Sharp* users.	Dave Hebert FIC
Science User Debriefs for *Knorr*'s Long Coring Capability - Dave working with Jim Broda will draft user debrief questions that will evaluate the operation of *Knorr*'s long core capability. It will also assess the impact on the general-purpose capability of the ship. • **Conduct debrief interviews with *Knorr* users.**	Dave Hebert FIC

OOI Update
Based on Preliminary Network Design
February 1, 2008

OCEAN OBSERVATORIES INITIATIVE

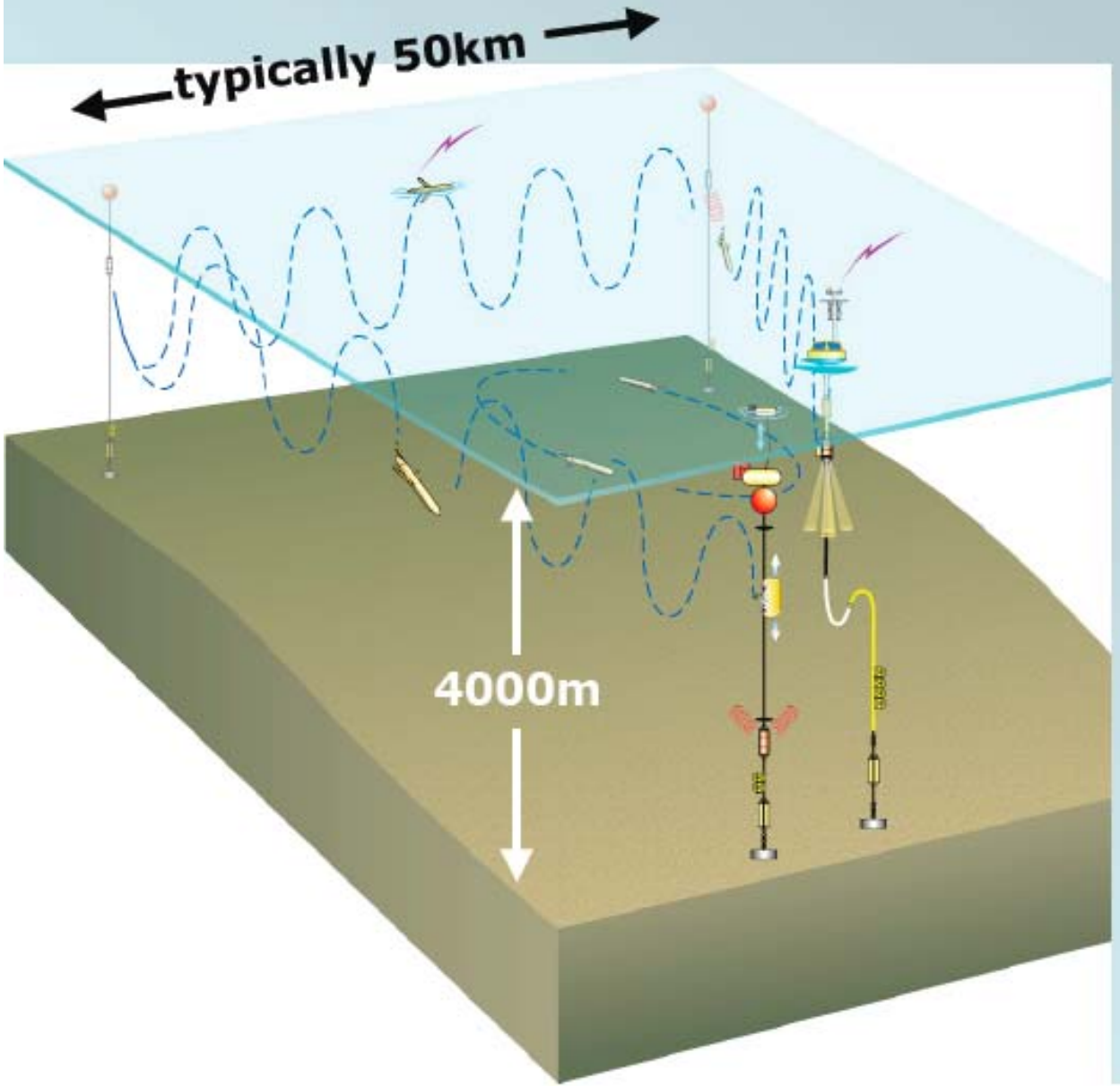
- 3 Global scale nodes in Southern Ocean,Ocean Station Papa, Irminger Sea
- 5 Regional scale nodes in NE Pacific, cabled plate-scale observatory
- Coastal scale assets in Mid- Atlantic Bight shelf-break (Pioneer Array) and NE Pacific continental slope (Endurance line)
- Each scale incorporates mobile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

OCEAN OBSERVATORIES INITIATIVE



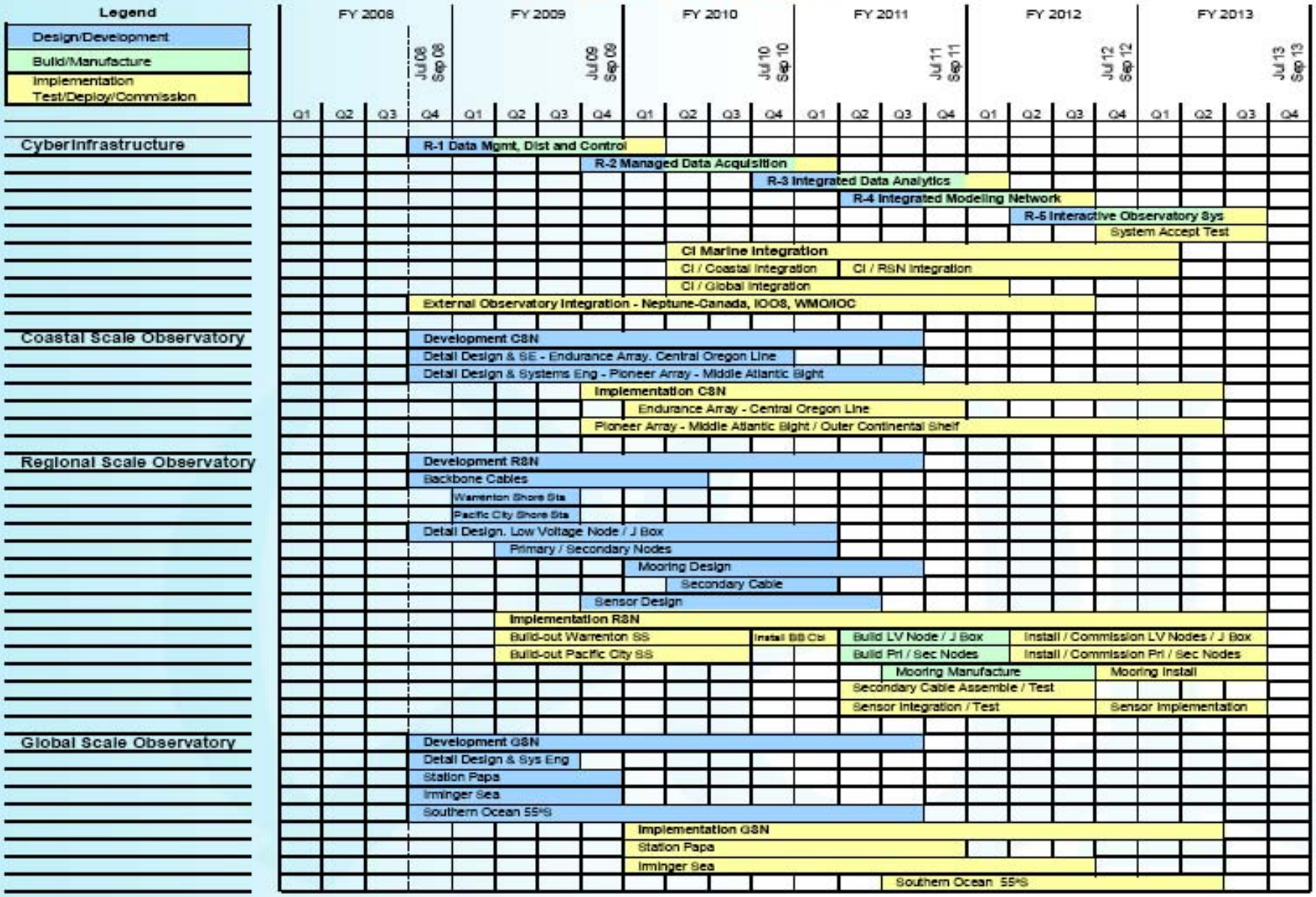
Global Sites

Irminger Sea, 55°S, PAPA



- Paired surface and profiler moorings cover full water column
- 3 gliders to observe evolution on sections
- 2 gliders to track/survey features, also commandable as spares
- 2 subsurface moorings with fixed depth sensors complete triangular moored array
- telemetry via gliders

Schedule


Legend
Design/Development
Build/Manufacture
Implementation
Test/Deploy/Commission
FY 2008
FY 2009
FY 2010
FY 2011
FY 2012
FY 2013
Jul 08 Sep 08
Jul 09 Sep 09
Jul 10 Sep 10
Jul 11 Sep 11
Jul 12 Sep 12
Jul 13 Sep 13
Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4
CyberInfrastructure
R-1 Data Mgmt, Dist and Control
R-2 Managed Data Acquisition
R-3 Integrated Data Analytics
R-4 Integrated Modeling Network
R-5 Interactive Observatory Sys
System Accept Test
CI Marine Integration
CI / Coastal Integration
CI / RSN Integration
CI / Global Integration
External Observatory Integration - Neptune-Canada, IOOS, WMO/IOC
Coastal Scale Observatory
Development CSN
Detail Design & SE - Endurance Array, Central Oregon Line
Detail Design & Systems Eng - Pioneer Array - Middle Atlantic Bight
Implementation CSN
Endurance Array - Central Oregon Line
Pioneer Array - Middle Atlantic Bight / Outer Continental Shelf
Regional Scale Observatory
Development RSN
Backbone Cables
Warrenton Shore Sta
Pacific City Shore Sta
Detail Design, Low Voltage Node / J Box
Primary / Secondary Nodes
Mooring Design
Secondary Cable
Sensor Design
Implementation RSN
Build-out Warrenton SS
Install BB Cbl
Build LV Node / J Box
Install / Commission LV Nodes / J Box
Build-out Pacific City SS
Build Pri / Sec Nodes
Install / Commission Pri / Sec Nodes
Mooring Manufacture
Mooring Install
Secondary Cable Assemble / Test
Sensor Integration / Test
Sensor Implementation
Global Scale Observatory
Development GSN
Detail Design & Sys Eng
Station Papa
Irminger Sea
Southern Ocean 55°S
Implementation GSN
Station Papa
Irminger Sea
Southern Ocean 55°S

OOI Estimated Days at Sea - Jan 2008

		Days at Sea by year						
Infrastructure	**Vessel Class**	**2009**	**2010**	**2011**	**2012**	**2013**	**2014**	**2015**
Atlantic								
Pioneer Array	Intermediate			12	12	12	12	12
	< 80 ft.		4	4	7	7	7	7
Irminger Sea	Global				23	23	23	23
Pacific								
Regional Scale Nodes	Cable vessel		30	20	20	20	20	20
	Global+ROV			30	60	60	60	60
Station Papa	Global			19	19	19	19	19
Southern Ocean	Global					23	23	23
Endurance Array - OR	Global+ROV	4		1	6	6	6	6
	Intermediate	6	9	3	9	13	13	13
Total by vessel class	Cable vessel	0	30	20	20	20	20	20
UNOLS	Global	0	0	19	42	65	65	65
	Global+ROV	4	0	31	66	66	66	66
	Intermediate	6	9	15	21	25	25	25
	< 80 ft.	0	4	4	7	7	7	7