



# OOI & UNOLS – 2014 Summary

- **2014: Total of 177 ship days**

Thompson	87 days
Knorr	47 days
Oceanus	22 days
Melville	21 days

**Planned for deployment:** 45 instrumented moorings, 22 gliders, 111 seafloor/cabled instruments, 2 AUVs, 11 turned moorings

- **2014: Ocean Observing Science Committee**

- OOSC participation in April 2014 Data Management Review
- User engagement begins (workshops)

OOI Science Requires Resolution of High Frequency Forcing (minutes-hours)  
 In Distant and/or Extreme Environments for Sustained Periods (years-decades)



## Four Global high latitude sites

- Station Papa
- Irminger Sea
- Argentine Basin
- Southern Ocean

## Two Coastal Arrays

- Endurance Array
- Pioneer Array

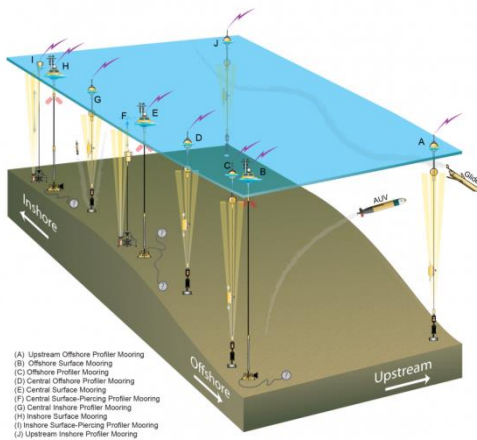
## Cabled Array

- Meso-scale,
- Plate Scale network

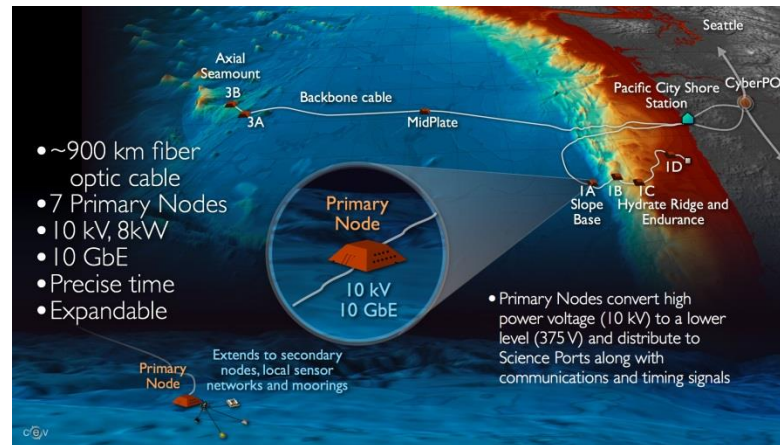
The locations and type of infrastructure drive engineering design, deployment, and maintenance profiles

# OOI ARRAYS, MOORINGS & INSTRUMENTS

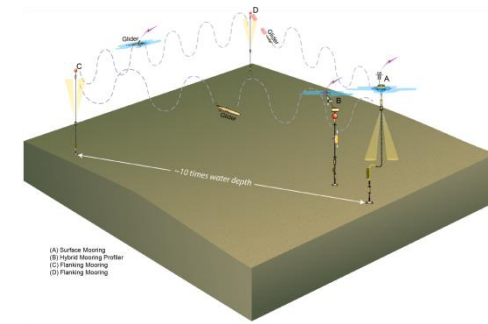
Array Name	Location	# of Moorings	# of Instruments	Notes
<b>Coastal Arrays</b>				
Pioneer	North Atlantic/Cont. Shelf	10, "E shaped array"	156	2 AUVs, 6 gliders
Endurance	Pacific, off shore of Newport	6, linear array	103	6 gliders, 2 moorings cabled
Endurance	Pacific, off shore of Aberdeen	6, linear array	121	
<b>Global Arrays</b>				
Station Papa	50°N, 145°W	3 triangular	53	5 gliders
Irminger Sea	60°N, 39°W	4, linear	76	5 gliders
Southern Ocean	55°S, 90°W	4, triangular	76	5 gliders
Argentine	42°S, 42°W	4, triangular	76	5 gliders
<b>Cabled Array</b>				
Hydrate Ridge	Pacific, off Wash/Oregon	3, attached to cable	45	Seafloor package
Axial Seamount	Pacific, off Wash/Oregon	3, attached to cable	55	Seafloor package
<b>Totals</b>		<b>53</b>	<b>761</b>	



PIONEER

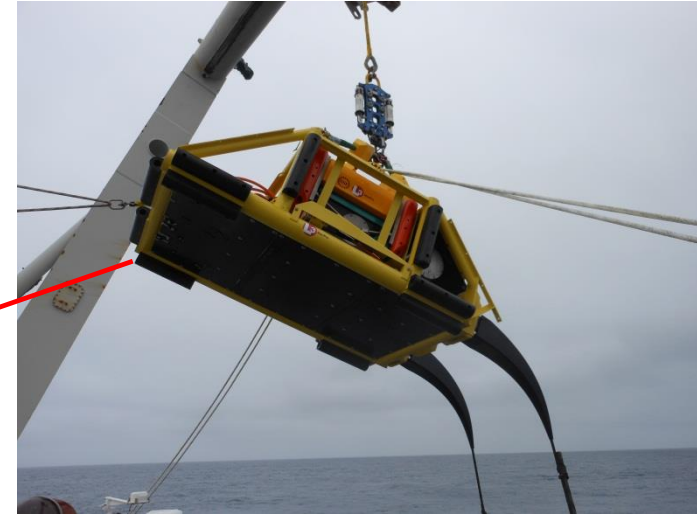
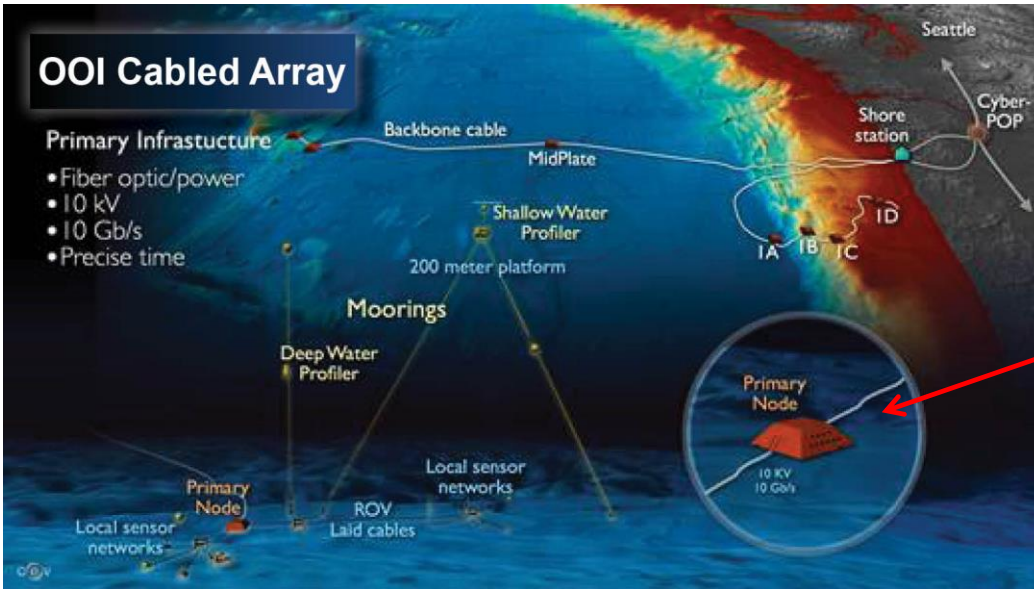


CABLED SYSTEM



GLOBAL

# OOI Project Deliverables to Date

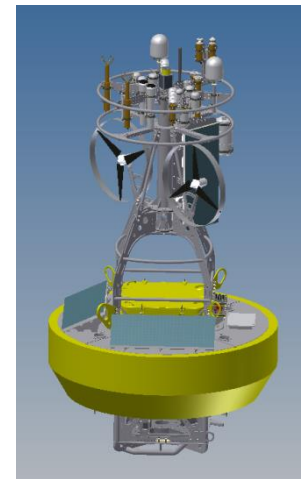


8/2011 – 900km cable installed

8/18/2012 – 7 Nodes installed onto cable



Profilers



41 moorings designed

Large procurement effort 2013



Contracted Gliders, Profilers, Instruments & AUVs

# OOI Construction Schedule – and \* = first turns of moorings

OOI Installation Schedule		2011		2012				2013				2014				2015	
		Q3 J A S	Q4 O N D	Q1 J F M	Q2 A M J	Q3 J A S	Q4 O N D	Q1 J F M	Q2 A M J	Q3 J A S	Q4 O N D	Q1 J F M	Q2 A M J	Q3 J A S	Q4 O N D	Q1 J F M	Q2 A M J
Cyberinfrastructure			R1							R2			R3				
Education					R2				R3		C			R4	C		
Global Arrays	Argentine Basin															I, G, C	
	Irminger Sea												I, G, C			C	
	Southern Ocean 55 S															I, G, C	
	Station Papa								I, G, C		C	*					
Coastal Arrays	Endurance								Phase I			Phase II	I, G, C	Phase III	C, I, G, *	C	
	Pioneer								I			I, G, C		*	I, A, G, C	C	
Regional Arrays		I				I				I			C		I, G	C	
		Submarine Cable Installed		Primary Nodes				Seafloor Sensors				Moorings & Sensors					

## Legend

-  Software Release #
-  Data Flow
-  Installation
-  Commissioning
-  Gliders Deployed
-  AUVs Deployed



# OOI Workshops & Webinars

- 2012 Workshops
  - February 2012 – Pioneer Workshop, Providence, RI
  - October 2012 – Axial Seamount Workshop, Seattle
- 2013
  - December, Irminger Sea Workshop, Boston
  - Station Papa Predeployment Webinar, COL
- 2014 Workshops, Town Halls & Webinars
  - Webinars – Irminger pre-webinar, Papa post-webinar
  - OOSC 2 user workshops
  - OOI town hall at Oceans 2014