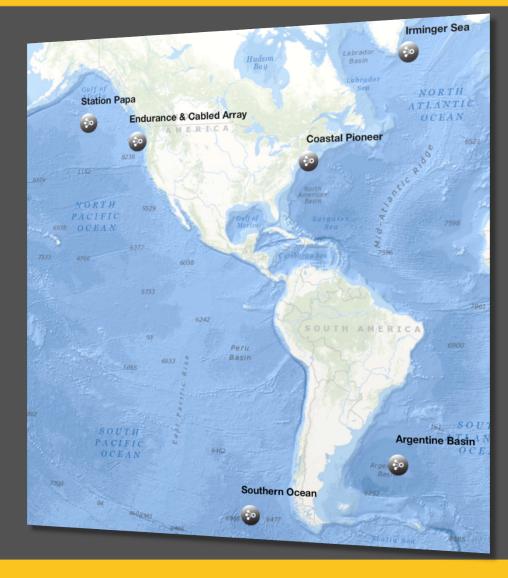
The OOI Coastal Workshop: OOI Net Status Overview

Manish Parashar, Scott Glenn & Oscar Schofield Rutgers University Cyberinfrastucture (CI)

www.oceanobservatories.org







Summary Up Front

- Much has been accomplished
 - Significant assets have been deployed at sea
 - All data coming ashore is being stored
 - OOI Net with Asset Management is deployed on the Production Server!
- Access points to the vast number of data products are growing
 - OceanObservatories.org website updated & continues to evolve
 - Graphical User Interface (GUI) with plotting enabled & continues to evolve
 - Essential Ocean Variables (EOVs) are being downloaded & stored for easy access
- Data Access will accelerate
 - Software Team is in place with a rapid feedback environment established
 - Data Evaluation Team is in place and seasoned
 - We seek community input mechanisms are in place
 - We welcome community contributions software, data, scientific synthesis





What has been deployed at sea?

- 4 Global Arrays
- Cabled Array
- Coastal Endurance Array
- Coastal Pioneer Array

Information at www.oceanobservatories.org



OOI Updates

OOI Construction and Data Status Update: December 2, 2015

December 3, 2019 - Fail 2019 marked the completion of the build and deplyprinter phase of all CUI manne infrastructure, including 7 arrays, 9 is instrumented steep. 56 mobile assets, and over 800 instruments. The OOI Cyberinfrastructure system handles observatory mission command and control, management of data streams, and facilitates data download via an online user interface. The COL team has been ...



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[OOI IN THE NEWS] Gulf Stream Ring Water Intrudes Ont Continental Shelf Like 'Pinocchio's Nose'

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Data Portal

Access data from the the OOI arrays



ducation Portal

Find and create educational visualizations concept maps, and data investigations.



2015 AGU Fall Meeting Dec 14-18, San Francisco, CA

2016 Ocean Sciences

February 21-26, New Orleans

Information for Researchers

Guidance for proposal writers and data

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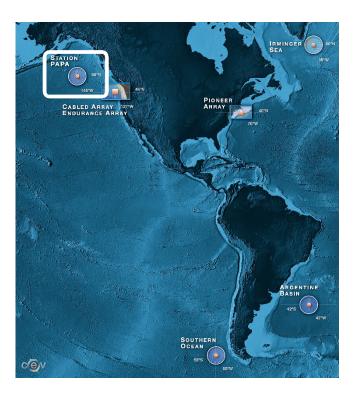
Funding for the Ocean Observatories initiative is provided by the National Science Foundation through a Cooperative Agreement with the Consortium for Ocean Leadership. Any opinions, findings, and conclusions or recommendations expressed in this material are those of contractions of the National Science (Science Science Scien



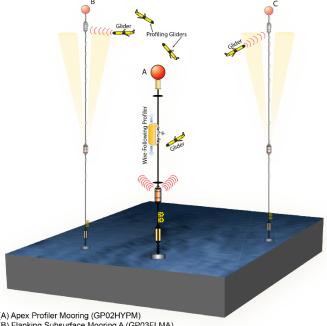




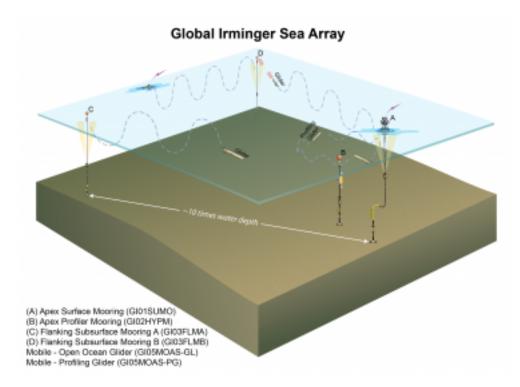
Global Arrays



Global Station Papa



(A) Apex Profiler Mooring (GP02HYPM)
(B) Flanking Subsurface Mooring A (GP03FLMA)
(C) Flanking Subsurface Mooring B (GP03FLMB)
Mobile - Open Ocean Glider (GP05MOAS-GL)
Mobile - Profiling Glider (GP05MOAS-PG)

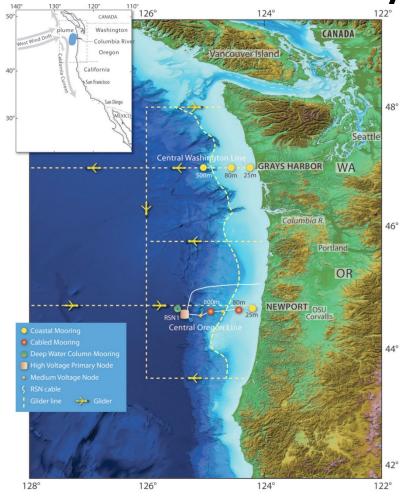


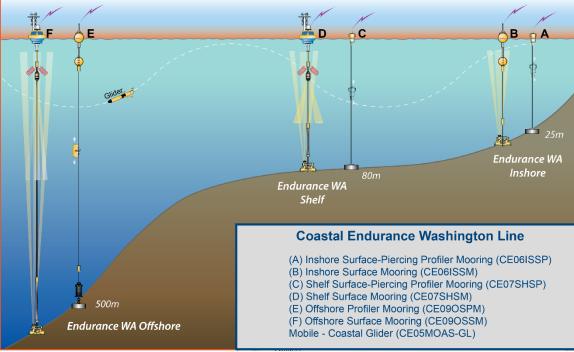
Cabled Array

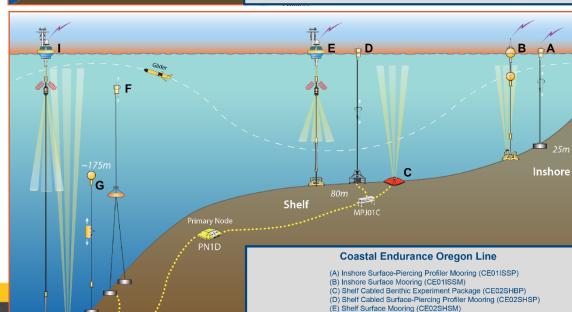




Endurance Array







To PN1B of

the RSN cable

Offshore

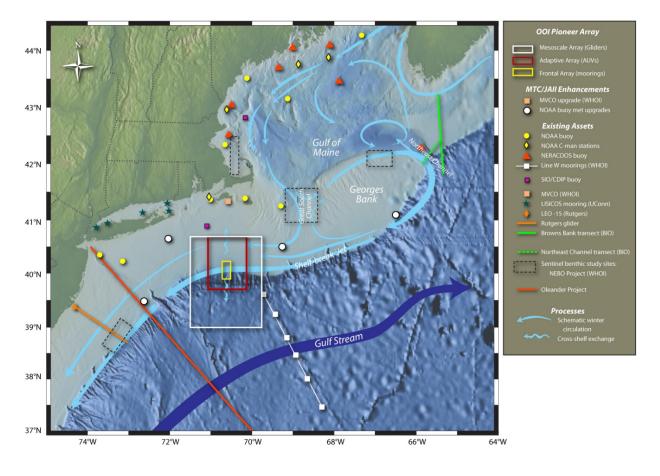
(F) Offshore Cabled Shallow Profiler Mooring (CE04OSPS)
(G) Offshore Cabled Deep Profiler Mooring (CE04OSPD)
(H) Offshore Cabled Benthic Experiment Package (CE04OSBP)

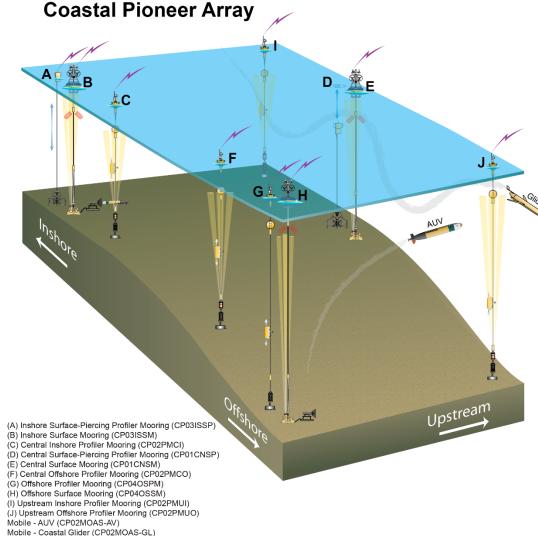
(I) Offshore Surface Mooring (CE04OSSM)

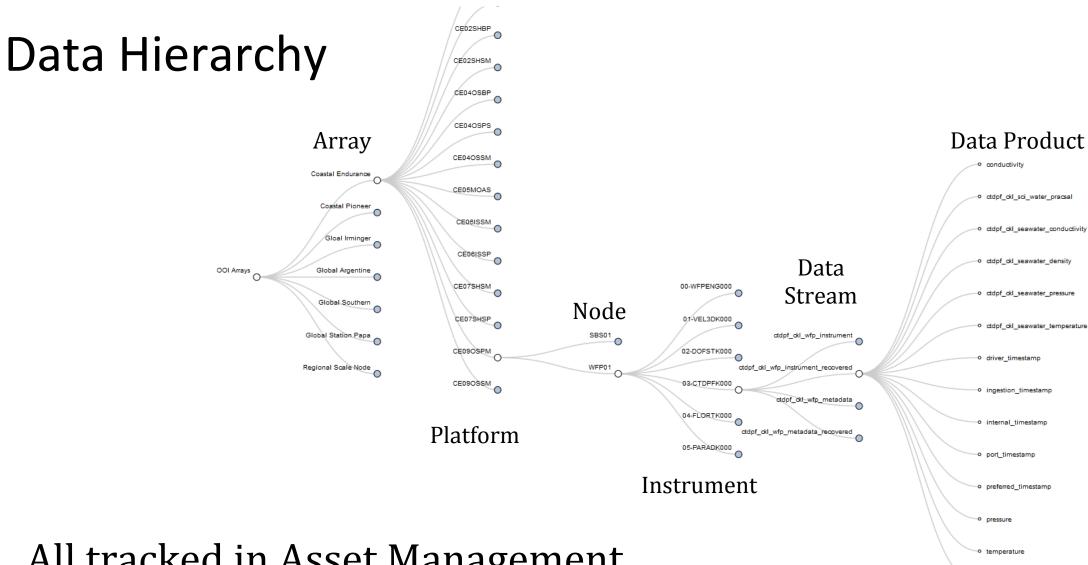
Mobile - Coastal Glider (CE05MOAS-GL)



Pioneer Array





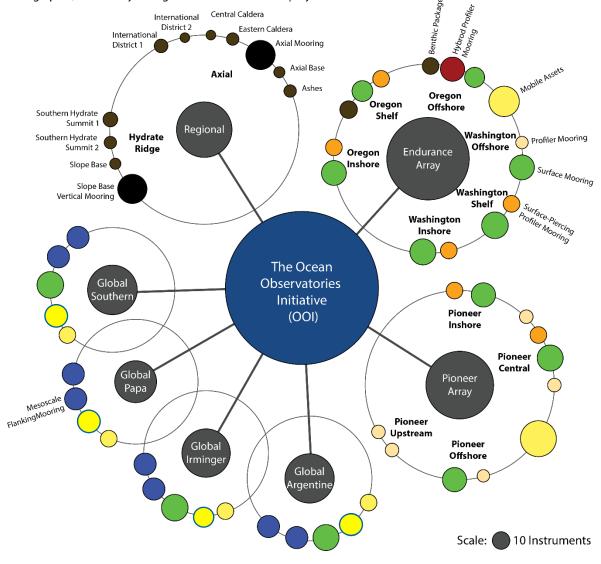


All tracked in Asset Management



Arrays and Sites

Each circle is sized by the number of instruments that will be deployed in each array (black circles) and site (colored circles) within the OOI. This figure reflects the initial design plan, which may change as instruments are deployed.



Arrays Sites Moorings, Profilers, Nodes **Mobile Assets** Gliders, AUVs **856** Instruments **2848** Science Data Products >100K Science/Engineering Data Products



Pioneer Site & Mobile Asset Deployment Times

	А	В	С		Z	AA	AB	AC	AD	AE	AF	AG	АН	Al	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY
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Endurance Site & Mobile Asset Deployment Times

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What is being deployed on land?

- Nationally Distributed Computer Network
- Rapidly evolving Service Oriented Architecture (SOA) Software for data processing, distribution & archiving

Information at www.oceanobservatories.org



OOI Update

OOI Construction and Data Status Update: December 2, 201

December 3, 2015 - Fail 2015 marked the completion of the build and deployment phase of all OOI marine interastructure, including 7 arrays, 5 instrumental stiles, 36 mobile assess, and over 800 instruments. The OOI Cyberinfrastructure system handles observatory mission command and control, management of data streams, and facilitates data download via an online user interface. The OCI team has been ...



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Information for Researchers

Guidance for proposal writers and data

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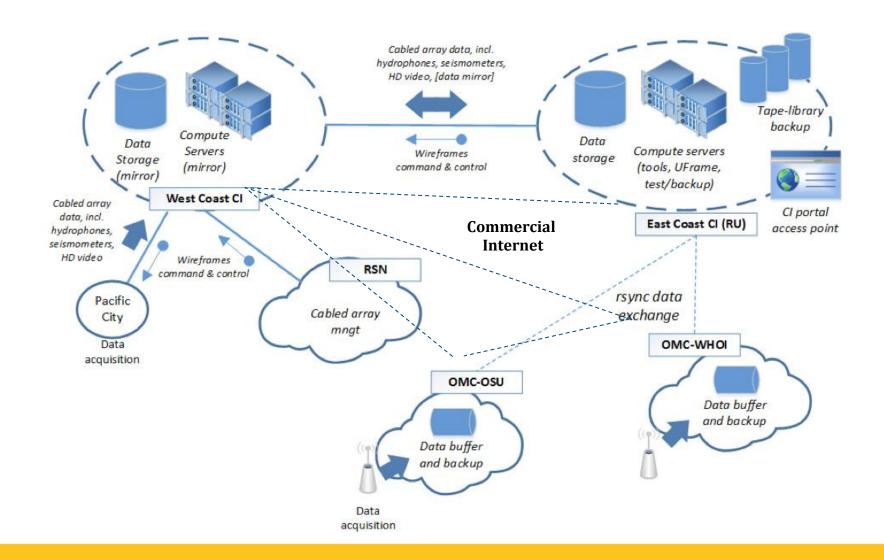
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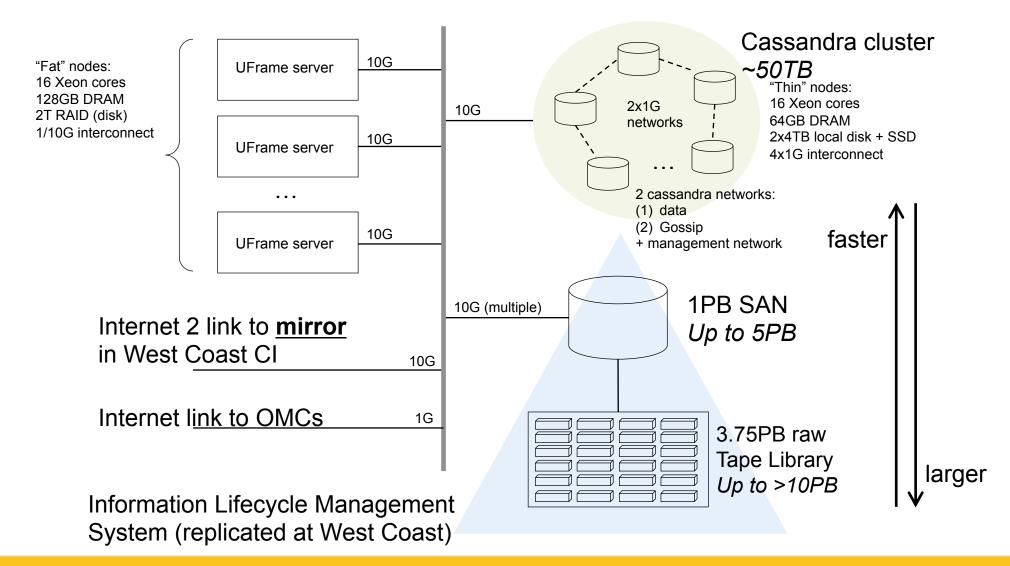


Overall Cl Architecture – Functional View





OOINet Deployment





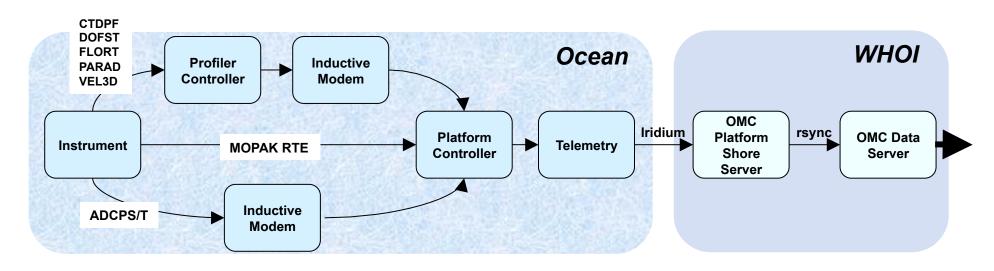
OOI-Net Software Build & Upgrade Team

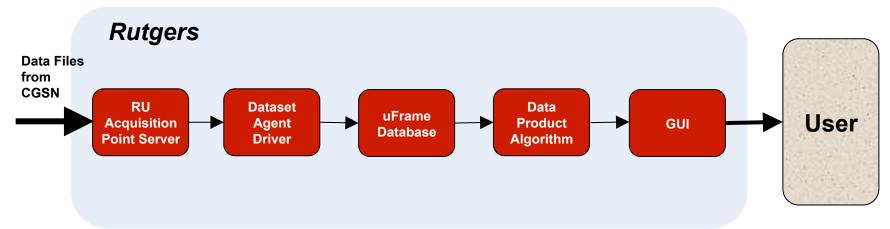
- Integration Lead COL
- Universal Framework (uFrame) SOA Core Raytheon Omaha
- Dataset Agent Drivers Parsers for ingest Raytheon San Diego
- Data Product Algorithms Oregon State University
- Graphical User Interface (GUI or UI) Applied Science Associates
- Additional Data Delivery Community Protocols
- Operator Rutgers





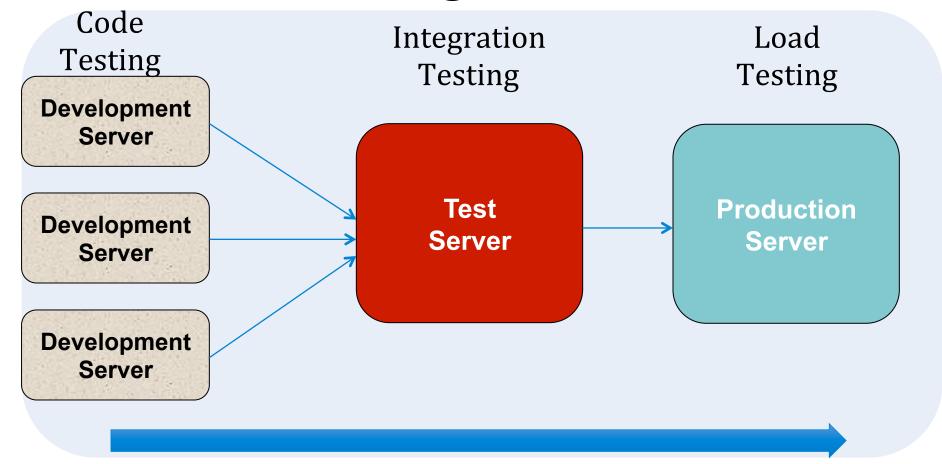
Data Flow Example: Pioneer Profiler







OOI Net Server Configurations



Increasing Computer Capabilities



Data Access Points

- Data Portal (GUI)
- THREDDS Server
 - Access to aggregated data products in NetCDF and CSV
 - ERDDAP (Spring 2016)
- Raw data files (Spring 2016)
- Shipboard Data
- Large Format Data
 - Still Camera & HD Video
 - Seismic
 - Hydrophone
 - Bioacoustic Sonar
- Direct Pass to community organizations (ex: seismic to IRIS)

OOI Data

OOI Data Availability

OOI provides free access to a wide range of data collected from around the world's oceans. We are offering these data in phases. We will offer you greater functionality and more data sets in the coming months based on your feedback. All data are safely archived, and our goal is to get them to scientists and educators as quickly as possible using various delivery mechanism as appropriate.

Learn more about the availability of individual data tools...

Increasing the availability of evaluated data and the diversity of delivery modes will continually evolve based on community feedback in the coming months. You can subscribe to a mailing list to received updates and notification as additional data and functionality becomes available. We also look forward to your feedback as well as suggestions on the tools that would increase the efficiency of synthesizing the diverse data collected by the program.

Over 200 unique data products are measured or derived from the over 800 instruments deployed from the air-sea interface to the seafloor amongst the seven OOI arrays.

The OOI CI provides a common operating infrastructure, the OOI system software (OOI Net), to connect and enable the coordination of operations of the OOI marine components (Global, Coastal, and Cabled Arrays) with the scientific and educational pursuits of oceanographic research communities. OOI Net permits 24/7 connectivity to bring sustained ocean observing data to a user any time, any place. Anyone with an internet connection can create a login on OOINet and access OOI data.



DATA PORTAL

The primary source for all OOI datasets and metadata



EXPLORE OOI DATA PRODUCTS

Browse the list of all major data products sampled by the OOI



OOI CRUISE DATA

Access data from all OOI Cruises

Preliminary Data

- Cabled Array Preliminary Data on IRIS
- Cabled Array tilt meter and co-located temperature plots courtesy of Dr. Bill Chadwick

THREDDS SERVER

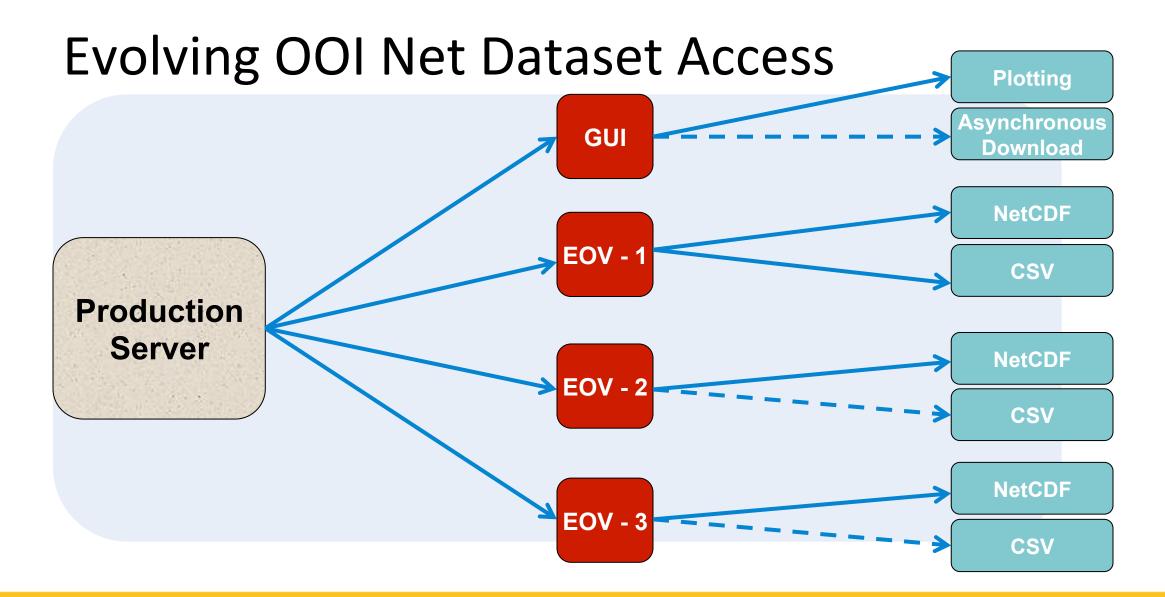
Selected pre-calculated streams are available through through OPENDAP and the NetCDF Subset Service on our THREDDS data server

Coming Soon

The following additional data access methods are currently in development and should be available in 2016.

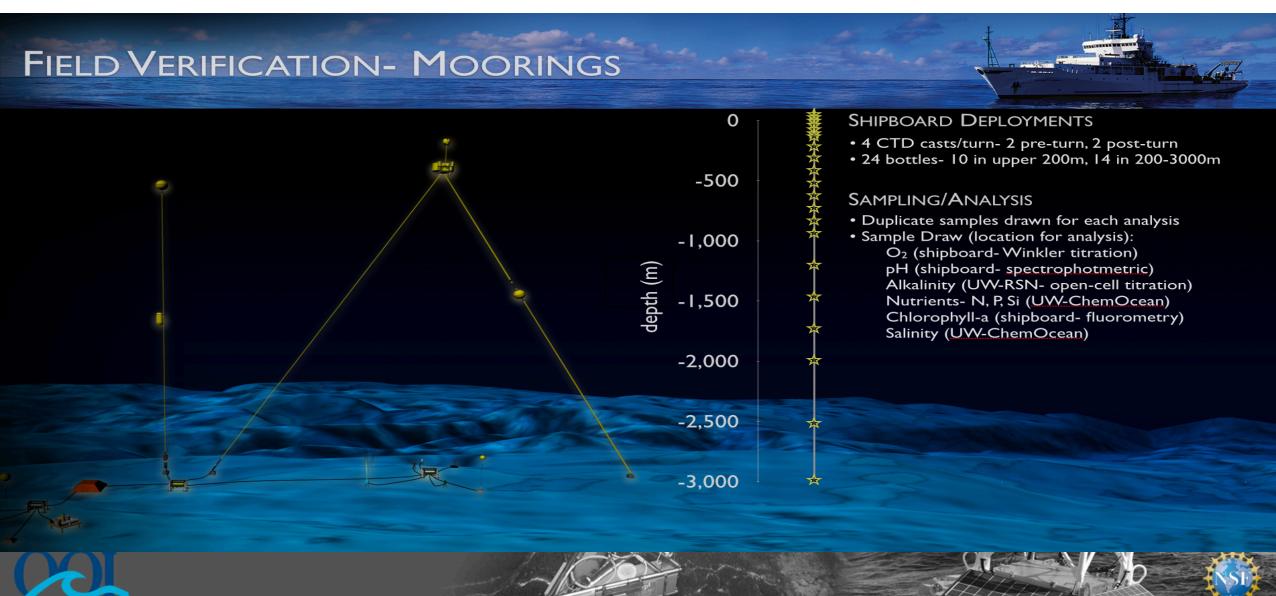
Raw Datafile Access







Ship and Shore-based sensor verification



At-sea Data QA procedures

Pre- & Post-deployment procedures

Deployment documentation

- Pre-deployment checklists [CP02PMUI-00001_checklist.pdf]
- Mooring deployment logs [CP02PMUI-00001_deployment-log.pdf]

Post-deployment assessments

- Adjacent CTD cast(s) (temp,sal,oxy,chl,turb) [see quick look report]
- Shipboard systems (met, surface t-sal, ADCP) [SCS_WSPD.gif, SCS_WDIR.gif]
- Water samples and lab analysis (sal,oxy,chl,etc) [Pioneer1_salinity_oxygen.xlsx]
- Quick-look report [3204-00023_Poineer_1_Quick_Look_Cruise_Report.pdf]
- Lessons learned [internal working documents]





Data QC

Automated QC Algorithms

- Global Range Test
- Local Range Test
- Spike Test
- Gradient Test
- Trend Test
- Stuck Value Test

Manual QC Tests

- Quick Looks
- Deep Dives
- Alert Diagnoses



Data QC aligned with accepted community standards

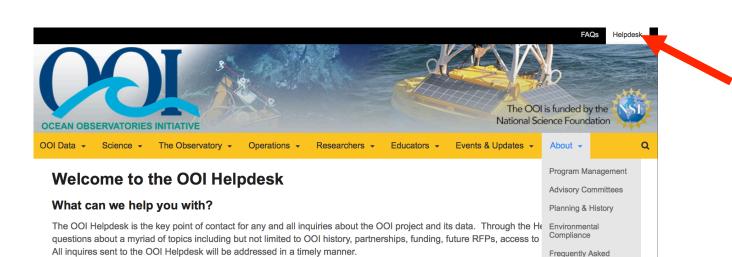
1. Data is sorted by reference designator so this needs to be correct for the data to go into the file 2. Impossible date* 2. Time series check in quick look plots. An automated algorithm has been suggested 3. Quick look maps generated for glider/mooring locations to determine close approach times for mobile and fixed assets are already being used for this 4. Position on land* 4. Same as 3 5. Impossible speed* 6. Global range test* 6. Already part of automated QC algorithms 7. Regional parameter range* 7. Already part of automated QC algorithms 8. Pressure increasing 8. Less relevant. Profilers move both directions and can be impacted by turbulence or shallow water waves 9. Spike test 9. Already part of automated QC algorithms 10. Top – bottom spike - obsolete 11. Gradient test 12. Digit rollover 12. Digital rollover? Not sure what this is 13. Stuck value 13. Stuck value 14. Density inversion 14. Hope to implement this as part of automated QC algorithms 15. Grey list 16. Gross salinity or temperature drift 17. Westal QC – not mandatory in real time 18. Frozen profile 19. Pressure outliers identified in quick looks	ARGO QC Test	OOI QC Test
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Helpdesk

Questions about data, data access, and instrumentation:

help@oceanobservatories.org



Frequently Asked Questions

OOI Data Usage Policy

Data Quality Control

Operations Plan

Observations and Sampling Approach

Data Portal Tutorial

Still have a question?

Send us an email: help@oceanobservatories.org.

If you are reporting an issue with the OOI Data Portal... please provide as much detail as possible regarding your issue. Let us know what page you were on, what time you encountered the issue, and describe what you were trying to accomplish when the problem occurred. A member of the OOI team will connect with you shortly about your report.

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Funding for the Ocean Observatories initiative is provided by the National Science Foundation through a Cooperative Agreement with the Consortium for Ocean Leadership. Any opinions, findings, and conclusions or recommendations expressed in this material are those of the author(s) and do not necessarily reflect the views of the National Science Foundation.

Before contacting the Helpdesk, we encourage you to check out the following resources that may help you with your inqu



Questions

Helpdesk



Summary Review

- Much has been accomplished
 - Significant assets have been deployed at sea
 - All data coming ashore is being stored
 - OOI Net with Asset Management is deployed on the Production Server!
- Access points to the vast number of data products are growing
 - OceanObservatories.org website updated & continues to evolve
 - Graphical User Interface (GUI) with plotting enabled & continues to evolve
 - Essential Ocean Variables (EOVs) are being downloaded & stored for easy access
- Data Access will accelerate
 - Software Team is in place with a rapid feedback environment established
 - Data Evaluation Team is in place and seasoned
 - We seek community input mechanisms are in place
 - We welcome community contributions software, data, scientific synthesis





