Updated: May 26, 2022

Agenda
Northeast Pacific OOI Workshop
OSU Portland Campus Center
555 SW Morrison Street
Portland, OR
June 7-9, 2022, Tuesday – Thursday
June 10, 2022, Friday – OOI Data Delivery Session

Funding for this workshop is provided by the National Science Foundation.

Monday, June 6, 2022, 5:00 – 7:00 pm PT – Workshop Check-in: Participants who are arriving on Monday can check in for the workshop from 5-7 pm. A check-in table will be in the Crystal Ballroom Foyer (adjacent to the hotel front desk)

Workshop Goals:
- Enhance access to and use of ocean observatory systems in advancing our knowledge and understanding of marine systems.
- Collect feedback on user experiences with OOI, data access, data quality, etc.
- Identify users and interest groups in the ocean observing research community.

Day 1 – Tuesday, June 7, 2022 – OSU Portland Campus Center
All plenary sessions will be held in Room 2047. Breakout rooms are as noted below.

Goal of Day One:
- Learn about the latest status of the OOI Program, OOI assets in the NE Pacific, and OOI data access tools.
- Gain hands-on experience accessing OOI data.

0800 **Workshop Check-in & Coffee**

0900 **Welcome and Introductions** – Kendra Daly, OOIFB Chair

0915 **NSF and OOI Program Management Office (PMO) Reports**
- NSF Report (15 min) - Team NSF (Lisa Clough, Bob Houtman, Lindsay Martin, Arnoldo Valle-Levinson)
- OOI PMO Report (15 min) – Jim Edson (OOI/WHOI)

0945 **The OOI Northeast Pacific Arrays Session**
- 0945 Regional Cabled Array (20 min) – Deb Kelley (UW)
- 1005 Coastal Endurance Array (20 min) – Ed Dever (OSU)
- *1025 Break* **(20 min)**
- 1045 Global Station Papa Array (20 min) – Al Plueddemann (WHOI)

1105 **OOI Data Delivery and the Cyberinfrastructure Session** –- Jeff Glatstein (WHOI) and Anthony Koppers (OSU)

1145 **Lunch Break**

1245 **Science Plenary –** *The Warm Blob* – Andrew Leising (National Oceanic and Atmospheric Administration)

1320 **QA/QC Efforts focusing on pCO2, pH, Oxygen, CTD, and Acoustic Data** – Chris Wingard (OSU), Wendi Ruef (UW, virtual participant), and Andrew Reed (WHOI)

1405 **Breakout Session #1: Demonstrations – Accessing OOI Data**

Breakout Group	Room	Group Leaders
Thredds and ERDDAP	2047	Chris Wingard (OSU)
Data Explorer	2039	Craig Risien (OSU) and Stace Beaulieu (WHOI, virtual participant)
M2M	2035	Andrew Reed (WHOI) and Sage Lichtenwalner (Rutgers, virtual participant)
Raw Data Server, Camera Data, Hydrophone Data	2002	Mike Vardaro (UW) and Wendi Ruef (UW, virtual participant)

1505 *Break*

1520 **Breakout Session #1: Demonstrations - Accessing OOI Data** – Please note, these breakout groups are a repeat of the groups offered before the break. This will offer an opportunity to participate in two different demonstrations.

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1620 **Feedback from Breakout Session #1 –** Discussion and feedback

1635 **Science Plenary –** *Preparing for the next eruption of Axial Seamount* **–** William Wilcock (University of Washington)

1705 **Day 1 Closing Remarks** – Tommy Moore, Northwest Indian Fisheries Commission (NWIFC)

1740   **Poster Session, OOI Data Help Desk, and Evening Reception –** The Benson Hotel, Mayfair Ballroom

1900   **Adjourn Day 1**

Day 2 – Wednesday, June 8, 2022 - OSU Portland Campus Center
All plenary sessions will be held in Room 2047. Breakout rooms are as noted below.

Goal of Day Two:
- *Learn about the full scope of NE Pacific Ocean observing assets available to researchers and educators.*
- *Identify what science questions can be addressed using OOI and other observatory data from NE Pacific assets and how those questions can be addressed.*
- *Gain insight into how ocean-observing assets in the NE Pacific region can help you answer critical science questions.*

0830   *Coffee*

0900   **Overview of Day 2 agenda** – Annette DeSilva, OOIFB Executive Secretary

0910   **Science Plenary -** *Modeling with OOI Data* - Chris Edwards (University of California, Santa Cruz)

0940   **NE Pacific Ocean Observing Assets (Non-OOI) Session**

Goal of this session – *Inform researchers about the full scope of NE Pacific Ocean observing assets available to address science questions.*

- 0940 - Ocean Networks Canada (ONC) - Richard Dewey - ONC Associate Director, Science
- 0950 - NOAA Station Papa – Meghan Cronin, NOAA, Pacific Marine Environmental Laboratory (virtual speaker)
- 1000 - NANOOS – Jan Newton, NANOOS Executive Director
- 1010 - NOAA Fisheries Surveys -Andrew Leising, NOAA
- 1020 – Institute of Ocean Science (IOS)/DFO & Argo - Tetjana Ross, IOS (virtual speaker)
- 1030 - Session Wrap-up - Kendra Daly, OOIFB Chair

1035   *Break*

1055   Breakout Session #2: Major Science Questions

Goal of Session:
Identify what science questions can be investigated using OOI and other observatory data from NE Pacific assets and how those questions can be addressed.

Breakout Groups:

Breakout Group	Room	Group Leaders
Seafloor/Geophysics	2044	William Wilcock (UW) and Diana Garcia Silva (Queens College)
Biogeochemical fluxes (ocean acidification, nutrient cycling)	2047	Ed Dever (OSU) and Kate Hewett (UW)
Physical-biological interactions (turbulence, cross-shelf exchanges, optical attenuation, populations)	2035	Maria Kavanaugh (OSU) and Melanie Fewings (OSU)
Large scale climate patterns and processes, including the Warm Blob	2002	Andrew Leising (NOAA) and Albert Hermann (NOAA)
Ocean Acoustics	2039	Wu-Jung Lee (UW) and Benjamin Evans (MIT)

1200   *Lunch*

1315   Report out from Breakout Session #2 – A leader from each group will provide a summary report (about 5 minutes each).

1345   Instruments and Opportunities using the OOI infrastructure:
- Program technology developments: UV bio-fouling mitigation, Dissolved oxygen/gliders - Chris Wingard (OSU)
- RCA Shallow Profilers - Finding Singularities in the Upper Ocean - Eric McRae (UW)
- A community test of distributed acoustic sensing on the OOI RCA – William Wilcock (UW)

1420   Plenary - *A New Reign of Ocean Discovery: Cloud-Based Data Access and Exploration* **-** Don Setiawan (University of Washington)

1450   *Break*

1510 **Breakout Session #3: Geographic Region**

Goal of Session – *Gain insight into how ocean-observing assets in the NE Pacific region can help you answer critical science questions.*

Note - The region is trans-boundary and extends from Station Papa to British Columbia and southward in the California Current.

Breakout Groups:

Breakout Group	Room	Group Leaders
Axial and Ridges	2002	Bill Chadwick (OSU) and Meethila Rahman (Queens College)
Shelf to Slope Base, including hypoxia and fisheries	2047	Jack Barth (OSU) and Thomas Connolly (MLML)
Open Ocean and Station Papa	2039	Tetjana Ross (IOS/Fisheries and Oceans Canada) and Jim Edson (OOI PMO/WHOI)

1615 **Report out from Breakout Session #3 -** A leader from each group will provide a summary report (about 10 minutes each).

1645 **Day 2 Closing Remarks** – Dax Soule, Queens College – City University of New York

1730 **Poster Session, OOI Data Help Desk, and Evening Reception** – The Benson Hotel, Mayfair Ballroom

1900 **Workshop Dinner** – The Benson Hotel, Mayfair Ballroom

Day 3 – Thursday, June 9, 2022 – OSU Portland Campus Center
All plenary sessions will be held in Room 2047. Breakout rooms are as noted below.

Goals of Day Three:
- Identify ways to better serve data to OOI modeling applications.
- Expand broader impacts using OOI data.
- Collect community feedback on the OOI program.
- Leave with everyone seeing a path forward to use the long-term sustained NE Pacific Ocean observing assets to answer critical science questions.

0830   *Coffee*

0900   **Overview of the Day 3 Agenda** – Kendra Daly, OOIFB Chair

0915   **Plenary Session – OOI Modeling Applications, a panel discussion** - Panelists will include:
- Albert Hermann (NOAA)
- Alexander Kurapov (NOAA)
- Guangyu Xu (UW)

1015   *Break*

1030   **Plenary -** *Developing Undergraduates' Scientific Reasoning with OOI Data Visualizations* **–** Kathy Browne (Rider University)

1100   **Community Building and Broadening Your Impact using OOI Data**

Introduction – Session Goals and Objectives (5 min) - Annette DeSilva, OOIFB Executive Secretary

Goals of Session:
- *Learn how to identify and build meaningful partnerships*
- *Inspire ways of engaging undergraduate and graduate students*

Building Effective Partnerships - Janice McDonnell, Rutgers University (virtual speaker) (10 min)

Perspectives on using Observatory Data in Education and Partnership Programs - Lightning Talks of 2-3 minutes each:
- High School Student - Artash Nath
- Graduate Student - Lottie Gonzalez (UW Alumnus)
- Educator - Cheryl Greengrove (UW Tacoma)
- ONC Community Science – Richard Dewey (ONC)

Breakout Session #4: Apply what we have learned and brainstorm ideas that will drive innovative broader impacts work that benefits society (60 min)

Breakout Groups:

Breakout Group	Room	Group Leaders
Education	2047	Dwight Owens (ONC) and Dax Soule (CUNY - Queens College)
Education	2002	Tamara Barriquand (Cal Poly Humboldt) and Meng Xia (University of Maryland Eastern Shore)
Community Science	2044	Jesse Hutchinson (ONC) and Valentina Staneva (UW)
Partnerships	2039	Tommy Moore (NWIFC) and Darlene Trew Crist (OOI/WHOI)

1230   *Lunch*

1330   **Report out from Breakout Session #4 -** A leader from each group will provide a summary report (about 7 minutes each).

1400   **Plenary – OOI Feedback Session** – Workshop participants will have an opportunity to share their feedback and suggestions about the OOI System and Program. Session leaders – Ed Dever (OSU), Deb Kelley (UW), and Al Plueddemann (WHOI)

1430   *Break*

1445   **Plenary – Looking Forward -** Session Leaders: Jim Edson (OOI PMO/WHOI) and Darlene Trew Crist (OOI/WHOI)

1515   **Concluding Remarks and Wrap-Up –** Kendra Daly, OOIFB Chair

1530   **Adjourn**

June 10, 2022: Friday, 0830 to 1230
OSU Portland Center, Pioneer Event Room (2002)

0800   *Coffee*

0830   **Q&A Session on OOI Data Delivery with focus on the Data Explorer System -** Session leaders - Stace Beaulieu (WHOI, virtual participant), Andrew Reed (WHOI), Wendi Ruef (UW, virtual participant), Mike Vardaro (UW), and Chris Wingard (OSU)