OOI Activities and Initiatives led by Early Career Scientists

Group built from previous activities:

- Discipline Specific/Interdisciplinary Workshops, Summer/Fall 2018
- Early Career Workshop, May 2019

Slack channel:
https://tinyurl.com/ooi-ecs

Website:
https://ooi-ecs.github.io/
Is there any specific topic you'd like us to address?
43 responses

<table>
<thead>
<tr>
<th>Topic</th>
<th>Responses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accessing/utilizing OOI Data</td>
<td>27 (62.8%)</td>
</tr>
<tr>
<td>QA/QC and data issues</td>
<td>12 (27.9%)</td>
</tr>
<tr>
<td>Interest in building a community of practice</td>
<td>15 (34.9%)</td>
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<tr>
<td>Adding non-OOI assets to OOI</td>
<td>3 (7%)</td>
</tr>
<tr>
<td>Teaching with OOI data</td>
<td>19 (44.2%)</td>
</tr>
<tr>
<td>I work for OOI. I'm happy to help other...</td>
<td>1 (2.3%)</td>
</tr>
<tr>
<td>Pioneer</td>
<td>1 (2.3%)</td>
</tr>
</tbody>
</table>

What is your career level?

- PhD Student: 38.0%
- Post-doc: 38.0%
- Professor: 10.0%
- OOFB Admin: 2.0%
- Industry profes: 2.0%
- other: 2.3%
Feedback from participants

- Data access and QA/QC still a barrier to entry.
- Version control of data
- Strong interest in future OOI data workshops and peer training.
- How to build community of practice? (interest in RCN, but concerns about return on investment and salary support for ECS).
- Using data for teaching, e.g. for community colleges and minority serving institutions
NSF funded project:
OOI Biogeochemical Sensor Data Workshop
(planning underway, virtual activities 2021, in person meeting 2022)

S. Clayton (ODU)
H. Palevsky (Boston College)
H. Benway (OCB, WHOI)

1. Develop **guidelines and best practices** for using OOI BBC sensor data.
2. Build a **community of practice**.
Research Products

K. Fogaren and C. Russoniello mentors for Ocean Data Labs Summer REU Program

Frontiers Paper in press led by ECS group members

Open Data, Collaborative Working Platforms, and Interdisciplinary Collaboration: Building an Early Career Scientist Community of Practice to Leverage Ocean Observatories Initiative Data to Address Critical Questions in Marine Science


School of Oceanography, University of Washington, Seattle, WA, United States; 2 College of Earth, Ocean, and Atmospheric Science, Oregon State University, Corvallis, OR, United States; 3 National Research Council, U.S. Navy Research Laboratory, Monterey, CA, United States; 4 Department of Geology and Geography, West Virginia University, Morgantown, WV, United States; 5 School of Earth and Environmental Sciences, Queens College – CityU, Flushing, NY, United States; 6 Department of Biological Sciences, Nicholls State University, Thibodaux, LA, United States

Ocean observing systems are well-recognized as platforms for long-term monitoring of near-shore and remote locations in the global ocean. High-quality observatory data is freely available and accessible to all members of the global oceanographic community—a democratization of data that is particularly useful for early career scientists (FCS), enabling FCS to conduct research independent of traditional funding models or access to laboratory and field equipment. The concurrent collection of distinct data types with relevance for oceanographic disciplines including physics, chemistry, biology, and acoustics yields a unique incubator for cutting-edge, timely.
Pending proposals

**Whitaker & Fogaren**, Collaborative Research project comparing environmental DNA samples from 2 cruises in context of environmental parameters from Oregon Line of the Coastal Endurance Array.

**Xu, Bemis and Soule**, Collaborative Research: From Magma to Vents: Monitoring Hydrothermal Fluid Temperature and Crustal Permeability in Relation to Magma Movement at Axial Seamount.
Submitted to NSF 6/2020
OOI Early Career Scientists
Ongoing Challenges

**Funding/Resources**
- Internal funding is constrained
- Some startups have been frozen
- OOI focused projects have suffered from competition from other funded activities

**Community Status**
- Activity has decreased
- Mechanisms for renewal are a challenge (e.g. RCN)