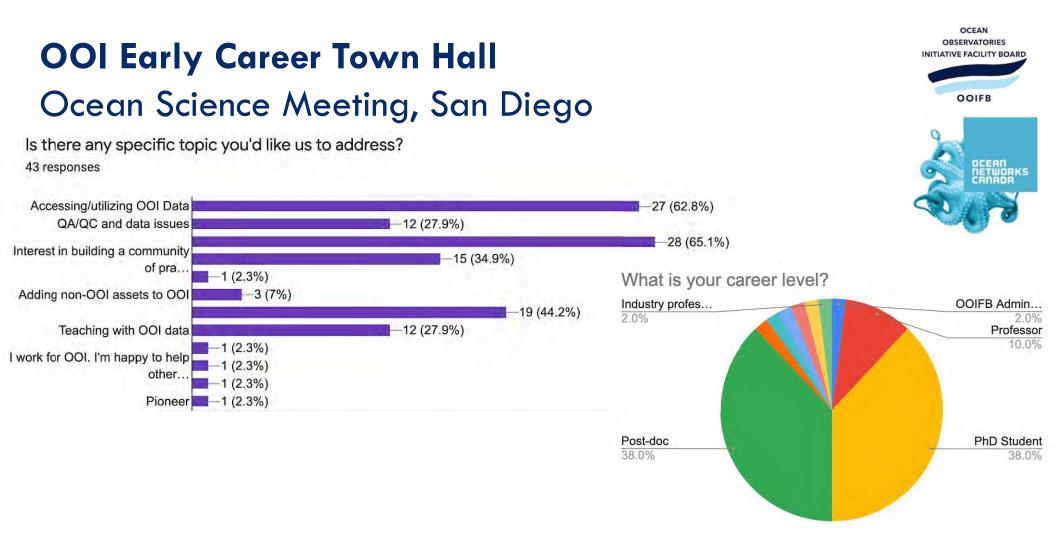
# OOI Activities and Initiatives led by Early Career Scientists

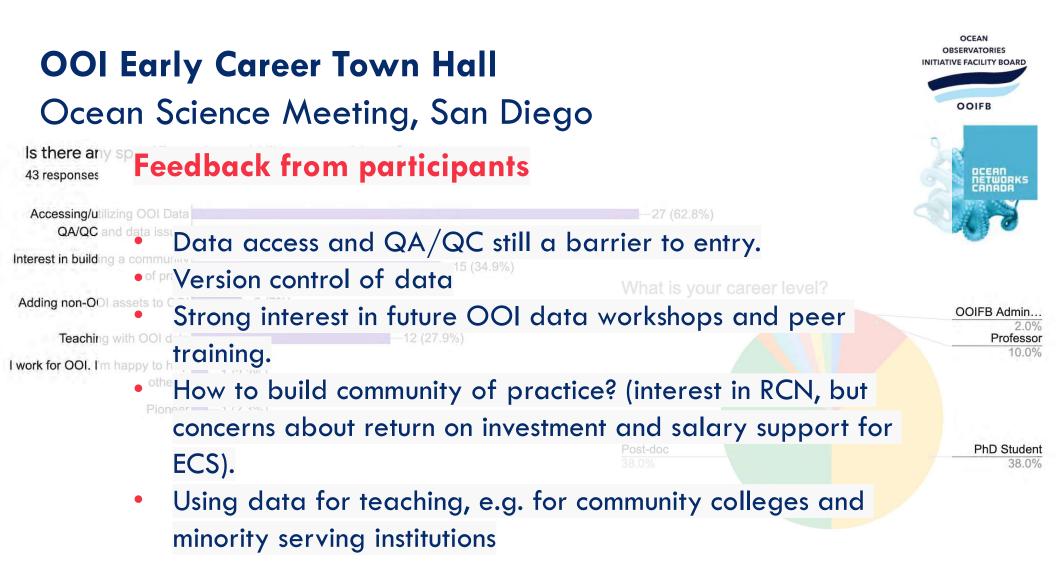
Group built from previous activities:

- 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/





## 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)
- Develop guidelines and best practices for using OOI BBC sensor data.
- 2. Build a community of practice.

Array	Platform	Oxygen Aanderaa	Oxygen SeaBird	Nitrate Satlantic SUNA/ISUS	pH Sunburst SAMI	<b>pCO₂</b> Sunburst SAMI	pCO <sub>2</sub> Pro- Oceanus	Chlorophyll & backscatter WetLabs
Global	Fixed	7	0	2	4	4	1	7
	Profiler	2	0	0	0	0	0	2
	Gliders	2	0	1	0	0	0	2
Pioneer	Fixed	6	0	3	6	3	3	3
	Profiler	0	7	0	0	0	0	7
	Gliders	2	0	2	0	0	0	2
Endurance	Fixed	12	0	6	12	8	4	8
	Profiler	6	2	5	2	2	0	7
	Gliders	2	0	0	0	0	0	2
Cabled	Fixed	4	0	0	2	0	0	2
	Profiler	2	2	2	2	2	0	4
OOI program total 72		72	11	28	38	27	10	73











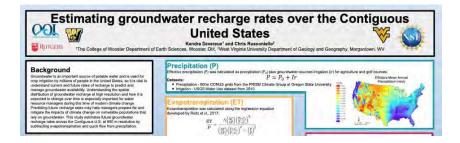
## **Research Products**

frontiers in Marine Science

ORIGINAL RESEARCH published: 13 December 2020 doi: 10.3389/fmets.2020.583512



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

Robert M. Levine<sup>1\*</sup>, Kristen E. Fogaren<sup>2\*</sup>, Johna E. Rudzin<sup>3</sup>, Christopher J. Russoniello<sup>4\*</sup>, Dax C. Soule<sup>5</sup> and Justine M. Whitaker<sup>a</sup>

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> Specially section: This article was submitted to Ocean Observation, a section of the journal Discriters in Marine Science

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 (ECS), enabling ECS 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 geology 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)