

Agenda Outline

OOIFB Imaging FlowCytobot (IFCB) Focus Group
June 18-20, 2025
University of North Carolina-Wilmington
Center for Marine Science
Marbionic Building, Rooms 1001 B and C

*Zoom log-in will be provided to participants in advance (virtual connectivity only available on 6/18 and 6/20/2025)

Focus Group Objectives:

- Highlight the capabilities of Imaging FlowCytobot, its data interfaces, and research that
 has been completed using this tool.
- Review OOI-IFCB data workflows. Introduce participants to the "on ramp" for OOI-IFCB data processes (start to finish, how an individual can access, visualize, and download data).
- Explore OOI-IFCB data via use-case scenarios that show what does and does not work with OOI-IFCB data products.
- Build a community of knowledge. Facilitate roundtable discussions between participants and OOI program managers about (IFCB) community expectations for data and potential uses, as well as OOI expectations for the IFCB community.

Day 1: Wednesday, June 18, 2025

0755	Shuttle departs SpringHill Suites for UNCW Center for Marine Science
0815	Coffee/Check In
0900	UNC-Wilmington Welcome (Christian Briseno-Avena)
0905	Introductions/Icebreakers (Dax Soule, OOIFB Chair)
0920	IFCB Technical Overview (Melissa Carter)
0950	IFCB Raw Data >> Data Products/Workflow (Stace Beaulieu)
1020	BREAK
1035	IFCB Dashboard Orientation and Demonstration (Heidi Sosik)
1115	IFCB Research Presentation I (Kasia Kenitz) An Early Warning System for Harmful Algal Bloom Events in California An overview of the CA IFCB Network, highlighting some research links to data generated

1140	IFCB Research Presentation II (Megan Ladds) Novel use of the IFCB to explore Dinophysis bloom dynamics Benchtop use of the IFCB for experiments and bloom monitoring and use of a feature to determine Dinophysis grazing
1205	LUNCH (provided on site at the Center for Marine Science)
1305	IFCB Research Presentation III (Antonietta Quigg) Galveston IFCB: A decade of service (from land to sea) Review of work with/for TX state agencies, the community, and students (training)
1330	OOI Program Introduction (Jim Edson, virtual)
1345	Pioneer MAB Array Overview (Al Plueddemann) > IFCB deployment location, sampling configuration, other available data
1405	BREAK
1415	NSF OOI Data Delivery Primer and QA/QC Overview (Stace Beaulieu) > Introduction and high level overview of NSF OOI data delivery methods > How does the NSF OOI Program handle data QA/QC? > Overview of all the entry points for OOI's IFCB data
1450	NSF OOI Data Access Demonstrations [hands-on working session] (Stace Beaulieu)
1545	Day 2 Primer/Preview (Heidi Sosik/Stace Beaulieu)
1555	Questions/Open Discussion
1610	Closing Remarks- Dax Soule, OOIFB Chair
1615	UNC Center for Marine Science Facility Tours (two groups)
1715	Shuttle departs UNC Center for Marine Science- to Springhill Suites
1755	Shuttle departs Springhill Suites for Front Street Brewery (downtown Wilmington)
1830	Group Dinner at the Taproom at the Front Street Brewery (shuttle available for group return to hotel, ~9:30pm)

Thursday, June 19, 2025

Shuttle departs SpringHill Suites for UNCW Center for Marine Science

0830	Coffee and Refreshments
0900	Welcome and Day 2 Overview (Dax Soule)
0910	IFCB Research Presentation IV (Patrick Daniel) Two Perspectives on Phytoplankton Dynamics in Monterey Bay A description of observed phytoplankton community response to a collection of upwelling events, and preliminary results estimating growth and division rates in Prorocentrum gracile using a size-structured Matrix Population Model and a trained binary classifier that looks for cells in mid division.
0930	JupyterHub Demonstration (Patrick Daniel and Stace Beaulieu) >> How to train a model, run inference on data, and run clustering on data using the OO JupyterHub. Git Hub:

Friday, June 20, 2025

1215	Shuttle departs UNC Center for Marine Science- to Springhill Suites
1145	Event Adjourn
1130	Concluding Remarks and Wrap-Up Exit Survey
1045	Brainstorming Session/Networking Goal: Define next steps (what happens next scientifically, etc.)
1030	BREAK
0930	IFCB Community x NSF OOI Roundtable II: Community Expectations (Janet Nye, Christian Briseno-Avena, Maria Kavanaugh, Melissa Carter)
0910	IFCB Community x NSF OOI Roundtable I: OOI Expectations (Al Plueddemann, Dax Soule)
0900	Day 3 Intro and Overview (Dax Soule, OOIFB Chair)
0830	Coffee and Refreshments
0800	Shuttle departs SpringHill Suites for UNCW Center for Marine Science