Updated: February 8, 2024

Pioneer Array Southern Mid-Atlantic Bight Community Workshop
September 10-12, 2024

Old Dominion University, Webb University Center
1301 49th Street Norfolk, VA 23529

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

Workshop Goals:

- **Highlight the capabilities of the Pioneer Array Southern Mid-Atlantic Bight (Pioneer MAB Array)** and the opportunities it creates/offers. This includes a high-level introduction to what the array is, the cutting-edge science that was accomplished in the previous location (including available data and how to access), and what can be done in this new area.
- **Review/discuss what research has been completed in this region**- what we do and do not know. Collect local stakeholder input.
- **Encourage collaboration**. Enhance access to and use of ocean observatory systems across the mid- and southeast-Atlantic regions. Further identify users and interest groups in the ocean observing research community and provide ample networking opportunities to foster connections and potential proposal development.

Workshop Agenda:

***Please note:** This agenda is tentative and will be updated as session details are confirmed.*

Day 1 – Tuesday, September 10, 2024 – ODU, Webb University Center

Goals of Day One:

- *Learn about the latest status of the [full] NSF OOI Program.*
- *Review Pioneer Array Northeast Shelf (NES) outcomes and data outputs.*
- *Review what research has already been completed in the SMAB.*
- *Learn about the full scope of Pioneer MAB Array, its experimental layout and rational, and understand what assets are available to researchers and educator.*

0800 Workshop Check-in & Coffee

0900 Welcome and Introductions

0910 Workshop Goals, Expectations, and a Day 1 Overview

0915 NSF Update and Overview of Funding Opportunities

1015 NSF OOI Program Management Office (PMO) Reports

1030 BREAK

1045 Overview: Pioneer NES Array

1130 Summary of Innovations Laboratory Experience and Introduction to Key Science Themes:

- Dynamics of shelf/slope exchange
- Biogeochemical cycling and transport
- Extreme events
- Ecosystem dynamics
- Complimentary science and technology (to the Pioneer MAB Array)

1200 LUNCH

1300 Plenary I: Southern Mid-Atlantic Bight, Physical Oceanography Focus

1335 Plenary II: Southern Mid-Atlantic Bight, Biogeochemical Focus

1405 Plenary III: Southern Mid-Atlantic Bight, Biology/Ecology Focus

1440 BREAK

1500 Overview: Pioneer MAB Array

1530 Day 1 overview and Breakout Session #1 Prep

1545 Breakout Session #1 (initial science theme discussion to define collaborative ideas, and/or create collaborative groups)

1645 Discussion from Breakout Session #1

1715 Day 1 Closing Remarks

1800 Poster Session [Recognizing Larry Atkinson] and Evening Reception

2000 Adjourn Workshop Day 1

Day 2 – Wednesday, September 11, 2024 – ODU Webb University Center

Goals of Day Two:

- *Learn about the latest status of NSF OOI data access tools and gain hands-on experience.*
- *Discuss in more detail the major science themes connected to the Pioneer MAB Array*

- *Identify what science questions can be addressed using the Pioneer MAB Array and other observatory data, and what methods/tools/partnerships are needed to answer those questions.*

0830 Coffee

0900 Day 2 Welcome and Overview

0915 NSF OOI Data Delivery and Quality Assurance/Quality Control

1015 BREAK

1030 Breakout Session #2: NSF OOI Data Access Hands-on Demonstrations (different ways to download the data including the OOI Data Portal, JupyterHub, and other sources)

1130 Discussion from Breakout Session #2

1200 LUNCH

1300 Plenary IV: Merging NSF OOI Data with Research Priorities

1335 Breakout Session #3: Major Science Themes cont'd (as more information has been provide on the Pioneer MAB Array, as well as data access pathways, participants are encouraged to further refine collaborative ideas and partnerships)

- Dynamics of shelf/slope exchange
- Biogeochemical cycling and transport
- Extreme events
- Ecosystem dynamics
- Complimentary science and technology (to the Pioneer MAB Array)
- Other topics not covered above?

1435 Discussion from Breakout Session #3

1505 BREAK

1525 Modeling Plenary Session – NSF OOI Modeling Applications and Panel Discussion

1645 Day 2 Closing Remarks

1700 Adjourn Workshop Day 2

1800 Group dinner for participants

Day 3 – Thursday, September 12, 2024 – ODU Webb University Center

Goals of Day Three:

- *Better understand and expand broader impact opportunities using NSF OOI data.*
- *Collect community feedback on the NSF OOI program.*
- *Leave with everyone seeing a path forward to using the Pioneer MAB Array observing assets to answer critical science and/or education questions.*

0830 Coffee

0900 Day 3 Welcome and Overview

0915 Engagement Plenary Session: Graduate/Undergraduate Student Engagement (opportunities, best practices, etc.)

0950 Panel Discussion: Data Partnerships, Community Building, and Broader Impacts

1025 Questions and Discussion

1040 BREAK

1055 NSF OOI Feedback Session

1125 Concluding Remarks and Wrap-Up

1200 Lunch/Workshop Concludes