

OOI 2.0 Program Management Office

John Trowbridge (OOI Principal Investigator)

Ocean Observatories Initiative Facilities Board (OOIFB) &
Data Dissemination & Cyberinfrastructure (DDCI) Meetings

November 12, 2019

Thank you to OOIFB, DDCI, and NSF

Outline

- System Components
- Organization
- Highlights of Program Year I Activities
 - Compliance
 - Marine Operations
 - Data Delivery & Cyberinfrastructure
 - Community Engagement
- Highlights of Program Year II Plans
 - Marine Operations
 - Data Delivery & Cyberinfrastructure
 - Community Engagement



System Components

- 7 interdisciplinary marine arrays at 3 scales:
 - Regional Cabled
 - Coastal Endurance & Pioneer
 - Global Irminger & Papa
 - Global Argentine & Southern Ocean (suspended 2017 & 2020 owing to budget constraints)
- Cyberinfrastructure & Data Delivery
- Numbers:
 - ~75 platforms
 - ~770 science instruments
 - ~11 TB data delivered last quarter
 - \$44m annual budget
- Mapping onto NSF's 10 Big Ideas:
 - Growing Convergence Research
 - Harnessing the Data Revolution
 - Navigating the New Arctic
 - Understanding the Rules of Life



Sponsor

Guidance

Program

**Distributed data QA/QC and
Community Engagement**

Science Oversight Committee

NSF Program Officers
OOIFB Chair
OOI PI Team
Subject Matter Experts as needed

NSF Division of Ocean Sciences

Program Directors (GEO/OCE): Clough & Houtman
Grant & Agreement Specialist (DACS): Misiano
Large Facilities Advisor (LFO): Hengst

**Institutional Overhead
Functions not Shown**

OOI Program Management Office

WHOI
PI: Trowbridge
PM: Matthias
Program Engineer: Palanza
Senior Finance Director: Slicer
Data Delivery Manager: Glatstein
Software Resources
Community Engagement: TBD

OOI Facilities Board

Chair: Atkinson
Admin Support Office PI: DeSilva
7 Unconflicted Members
2 Operator Appointees

DDCI Subcommittee

Chair: Crone
8 Unconflicted Members
Data Delivery Manager
2 Operator Appointees

Coastal/Global Scale Nodes

WHOI
PI/PS: Plueddemann
PM: Buffitt
Execution Team

Regional Cabled Array

UW
PI/PS: Kelley
PM: Ittig
Execution Team

Endurance Array

OSU
PI/PS: Dever
PM: Fram
Execution Team

CI Hardware & Network

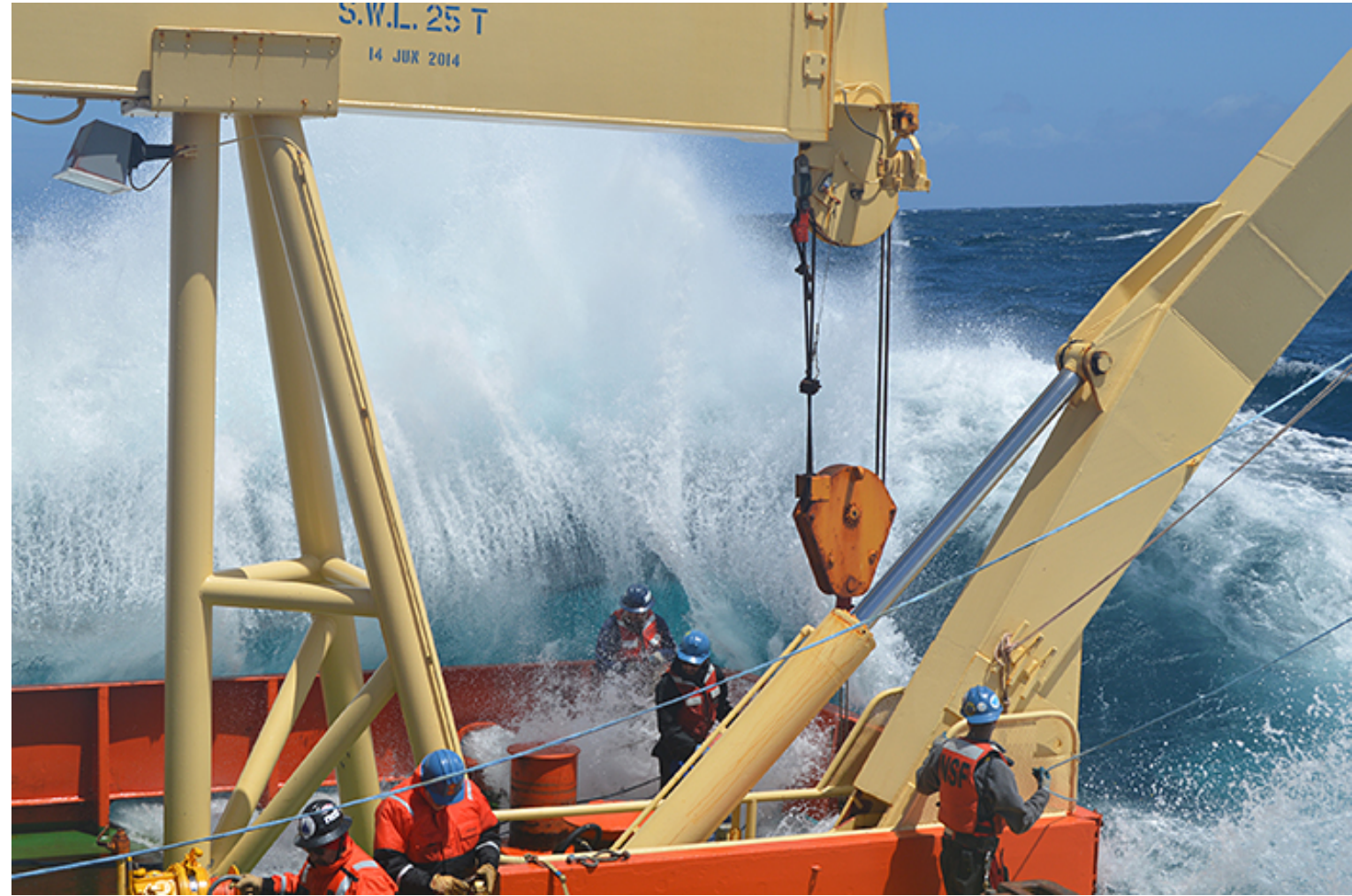
Rutgers
PI/PS: Brennan-Tonetta
Hardware PM: Campton
Execution Team

Program Year I: Compliance

- Weekly, quarterly, and annual reports to NSF
- Annual Work Plan (April and August 2019 versions)
- Descoping Plan
- Memoranda of Negotiation
- Weekly group and one-on-one meetings of PI Team
- Weekly meetings of Program/Project Managers
- Monthly Tracking Book meetings of PMO with subawardees
- Cybersecurity Review
- Configuration Control Board
- Business Systems Reviews
- Platform Performance Metrics

Program Year I: Marine Operations

- **Eight major deployment & recovery cruises**
 - One each at Cabled, Irminger, Papa, & Southern Ocean
 - Two each at Endurance & Pioneer
 - Total ~145 ship days
 - ~17 non-OOI science programs supported
- **System performance:**
 - ~83% successful instruments vs planned for fixed assets



Program Year I: DDCI & Community Engagement

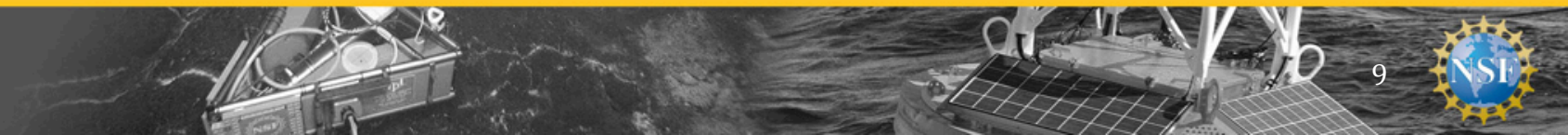
- **Data Delivery & Cyberinfrastructure:**
 - Self Evaluation of existing systems
 - Analysis of Alternatives for system enhancements
 - Cross-program metadata review
- **Community Engagement:**
 - Community Engagement Plan
 - Science Impact Metrics (Program inception to date):
 - 112 peer-reviewed OOI-related journal publications with 942 Web of Science citations
 - 68 NSF awards to 56 lead PIs at 29 institutions totaling \$47.8m for use of OOI assets
 - ~200 meetings/discussions with researchers
 - Multiple PI instruments
 - Initiation of website redesign
 - Creation of Community Engagement Manager role

Program Year II: Marine Operations

- Continuation of refurbishment and deployment & recovery cruises by Marine Implementing Organizations
- Glider and Profiler Reviews
 - External panel representing science and engineering
 - Weigh costs, risks, and science benefits
 - Inform resource allocation
 - Inform potential engineering & operational improvements

Program Year II: Data Delivery & Cyberinfrastructure

- User Interface (Axiom)
- Data QA/QC
- Asset Management
- Continued Operations



Program Year II: PMO Community Engagement

- Coordinate website redesign
- Community Engagement Manager hire
- Social media strategy
- 2019 AGU Fall Meeting (support OOIFB Town Hall)
- 2020 Ocean Sciences Meeting
 - Co-Chair Session 85813, “Sustained Ocean Observing: From Events to Assessing Long-term Ecosystem Patterns”
 - OOI Booth
 - Support OOI/Early Career Town Hall
- NSF-sponsored Large Facilities Workshop (coordinate metrics & management sessions)
- Quarterly newsletter
- Metrics
- Brochures

Questions?

