



Ocean-Bottom Seismograph Instrumentation Center (OBSIC) Oversight Committee

- Third generation of NSF/OCE/MGG-funded facility providing OBS instrumentation for community use
- Cooperative agreement with WHOI for first five years of operation (2018-2023)
- Budget and fleet both downsized compared to previous -> seek same level of operation through increased efficiency
- Award is for operations only no budget for fleet improvement or evolution
- Committee set up by NSF to provide community guidance and advice to facility operator and NSF on facility operations
- Analogous to committees that guided OBSIP in its first two generations



OBSIC Oversight Committee Membership

- Jim Gaherty, LDEO/NAU, chair
- Kasey Aderhold, IRIS
- Jackie Caplan-Auerbach, Western Washington Univ.
- Zach Eilon, UC Santa Barbara
- Emilie Hooft Toomey, Univ. of Oregon
- Ross Parnell-Turner, UC San Diego
- Lindsay Worthington, Univ. of New Mexico (MSROC liaison)





OBSIC OC Facility Tour, Oct 2019 (photos by K. Aderhold)



OBSIC OC within MSROC

- Provide input of broader OBS community into MSROC, encourage engagement of the OBS community on MSROC issues, and improve coordination between MSROC and OBSIC activities
- 7 community members + ex officio representation from facility
- 3 yr rotations
- At least one member of OBSIC will also sit on MSROC



Ongoing and Future OBSIC Challenges

- Management of instrument demand with existing heterogeneous fleet
 - Transition of existing SIO and LDEO instruments into operations
 - Upgrading existing instruments to a more standardized platform (esp. datalogger)
- Management of long- and short-duration (natural vs. controlled source) demand for short-period fleet
- Expansion of short-period fleet
 - Build on industry advancements, capabilities?



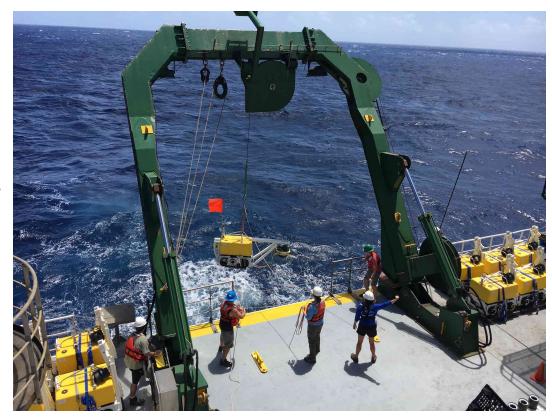


OBSIC Facility (photos c/o J. Collins)



Ongoing and Future OBSIC Challenges

- Continued improvement and expansion of broadband fleet – integration of new technology
 - Integrate with other seafloor geophysical platforms?
 - Fueled by community needs
- Promoting funding for instrument standardization, fleet expansion
- Developing robust mechanisms for instrument evaluation and testing



2018 Pacific Array deployment (photo by Z. Eilon)



Ongoing and Future OBSIC Challenges

- Development of new data assessment tools, new community data products, and improved data quality
- Enhanced outreach and support of the community through the website and social media



OBSIC web portal: obsic.whoi.edu



OBSIC OC Terms of Reference

- OBSIC OC has developed a draft Terms of Reference (TOR) that lays out overall structure and charge for the committee
- Draft TOR has been forwarded to Doug Russell (UNOLS office) and John Orcutt (MSROC) for comment
- Open for discussion and feedback from MSROC as desired
- Approval by UNOLS council



Primary areas of OBSIC OC focus outlined in TOR:

- Maintain guidelines for the use of the equipment and services of the OBSIC facility;
- Support facility-performance assessment for experiment planning and operations, and data management and quality;
- Promote and support community outreach and engagement within the marine and terrestrial seismic communities as well as the broader scientific community;
- Monitor the current and future health of the facility, including procurement and management of resources for equipment testing, maintenance, development, and recapitalization;



Primary areas of OBSIC OC focus outlined in TOR:

- Advocate for technical capacity building and training of future personnel including engineers;
- Facilitate coordination and cooperation with the larger (non-OBS)
 marine-seismic community through interaction with MSROC;
- Support open distribution, discoverability, and usability of OBSIC data and data products through a national data archive;
- Facilitate coordination and cooperation with the research community to support a broad range of objectives, including global-scale and shoreline-crossing studies;
- Develop and respond to new initiatives to enhance the effectiveness of the OBSIC program.



Questions/Comments