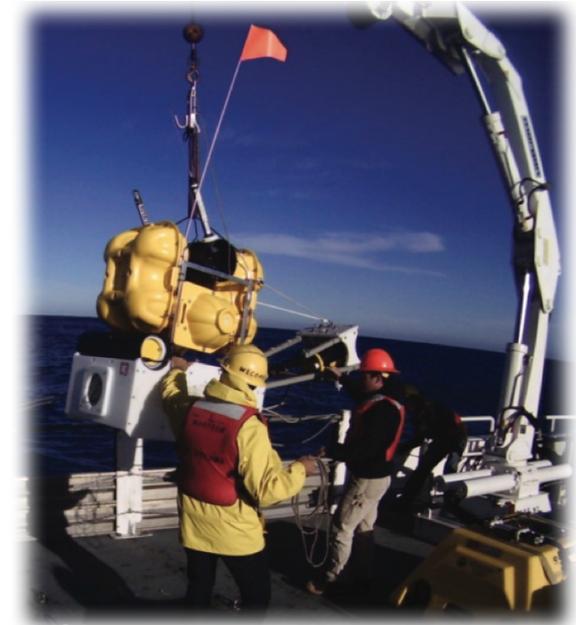


Advice on Ocean Bottom Seismology

- Terms of Reference assumed an IRIS OBSIP oversight committee would exist
- With call for new National Ocean Bottom Seismometer Instrument Pool (NOBSIP), MSROC is envisioned more explicitly for oversight, with allude to MSROC sub-committee in NSF's Dear Colleague Letter



>>> need to clarify our role in oversight:

advise on scientific capability of NOBSIP

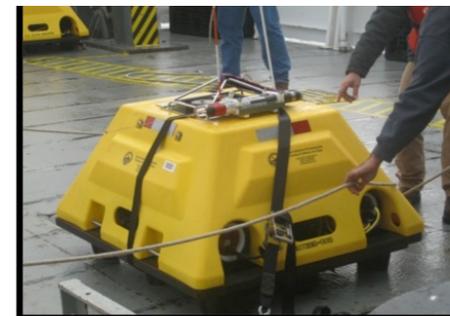
comment on instrument availability? (pace of scientific advance)

comment on (perceived) accessibility of instruments & data?

gather info/get word out on upcoming opportunities for synergistic studies?

IX. ANNEX IX to the UNOLS Charter: Marine Seismic Research Oversight Committee (MSROC)

Terms of Reference



...

The Marine Seismic Research Oversight Committee (MSROC) provides scientific oversight, asset coordination and strategic advice for NSF-supported marine seismic facilities. MSROC fulfills a role as the representatives for the marine seismic research community, ensuring broad access and maximum participation in the utilization of marine seismic assets. MSROC also advises UNOLS and funding agencies on the adoption of technical advances that maintain a cutting edge capability for the facilities that support marine seismic research

...

3. MEMBERSHIP / ORGANIZATION

- The Langseth operating institution and the OBSIP management may designate non-voting ex-officio member(s).

...

4. SPECIFIC TASKS

(c) Regularly review the technical capabilities of existing marine seismic assets to ensure they meet the needs of the scientific community, and advocate for upgrades when compelling needs for new capabilities are identified. The MSROC will provide high-level input on scientific needs and guidance on prioritization for implementation of upgrades and deployment of new marine seismic capability...



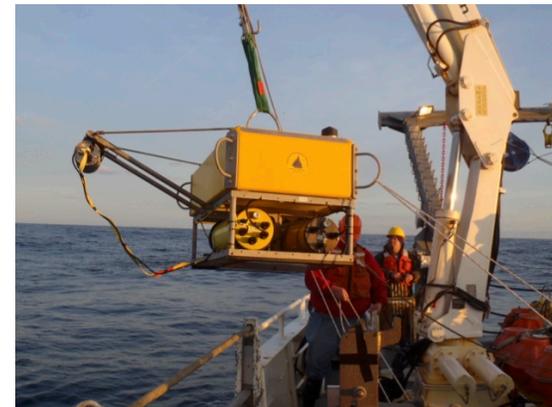
NSF 17-080

Dear Colleague Letter: Management and Operation of a National Ocean Bottom Seismometer Instrument Pool

NOBSIP will include the instruments recently acquired with NSF support that currently reside with the three existing Institutional Instrument Contributors. These instruments, along with additional instruments in the prospective Awardee's inventory, will form the new instrument pool.

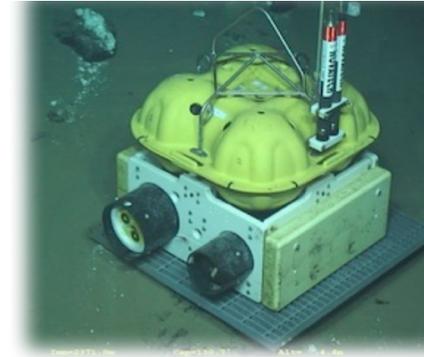
...

The Awardee will be required to establish and maintain a strong interface with the University National Oceanographic Laboratory System (UNOLS) to assist in cruise scheduling for the at-sea deployment and recovery of OBS instrumentation. Collaboration with the UNOLS Marine Seismic Research Oversight Committee will be required to establish an OBS Oversight Subcommittee that will serve to assess NOBSIP operations and provide advice concerning future needs.



Aspects for possible consideration

committee can help during period while cognizant program director comes up to speed on NOBSIP details, but *cannot* replace long-term, well-informed agency oversight



- terms for sub-committee if agree to adopt one
- mapping between science needs & existing instrumentation
 - number, type/capabilities, availability
 - community experiments vs individual PI access to pool
 - Subduction Zone Hazards in 4D (SZ4D)-- https://www.iris.edu/hq/files/workshops/2016/09/szo_16/sz4d_flyer.pdf
 - Pacific Array (roving, deep Earth studies) <http://gachon.eri.u-tokyo.ac.jp/~hitosi/PArray/>
- instrument performance & NOBSIP quality
 - data return rate, recording quality, cost/time efficiency, risk reduction
- help prioritize future technical development to meet science needs
 - deployment duration, quieter horizontal components, type of pressure recording

subcommittee
and
MSROC?

NSF-owned instruments

- **LDEO:** 19 trawl-resistant OBS/APG (Trillium) ,
10 OBS/APG , ~15 L4C/DPG OBS
- **WHOI:** 15 OBS/DPG , 30 LP (Guralp CMG3T)
30 SP OBS/hydrophone (4.5 Hz geophone)
10 Keck BB w/strong motion accelerometer
- **SIO:** 15 OBS/DPG , 39 BB OBS/DPG (Tr-240)
61 SP OBS/hydrophone (4.5 Hz geophone)

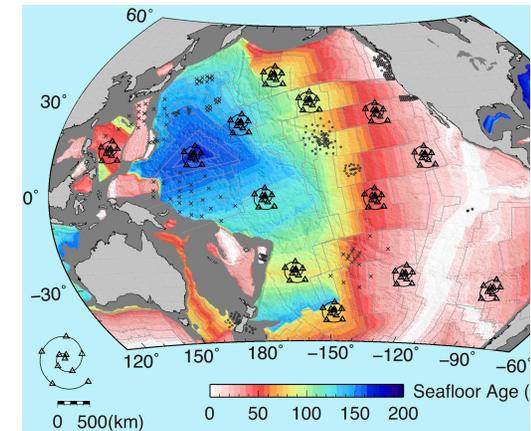
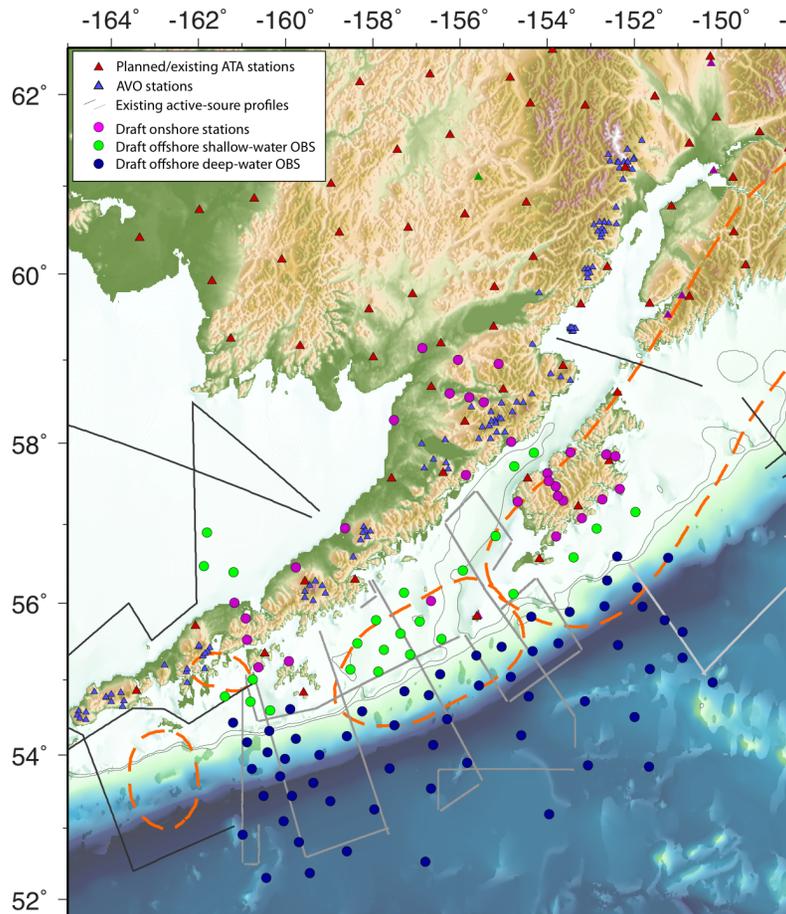
(institution-owned in black)

most recent IRIS OBSIP Oversight Committee functional specifications call for 150 BB and 200 SP OBS + DPG/APG/hydrophone

<http://www.obsip.org/instruments/functional-specifications/>



Possible concerns for transition to NOBSIP



- quality deployment & recovery capability for currently planned experiments
- quality-controlled data, in timely manner, for these experiments
- need clear indication of MGG plans in terms of continuity (or change) in pace of OBS proposal support