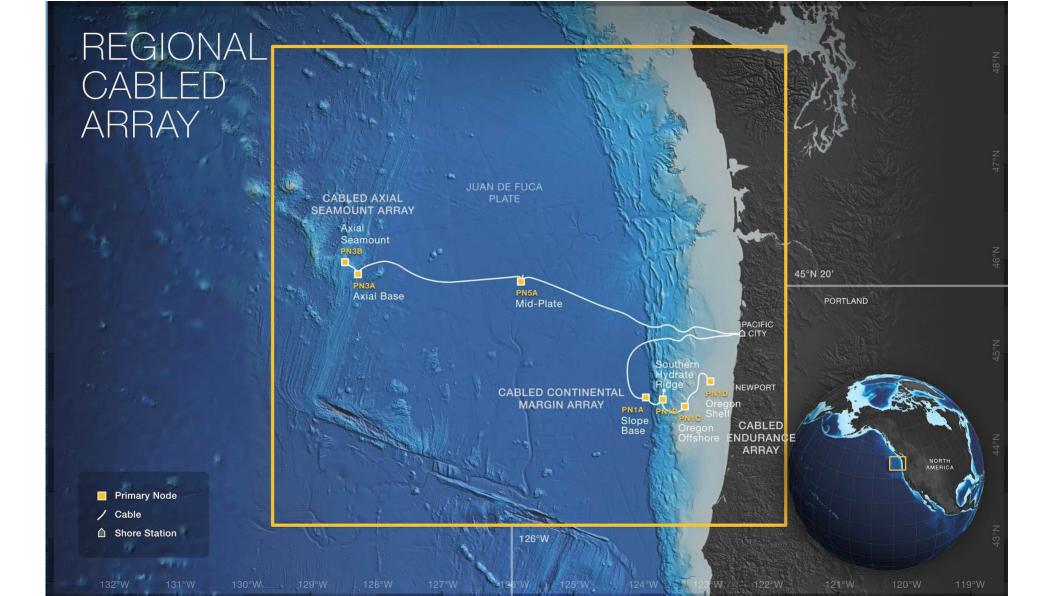
Multiplexed DAS on the OOI RCA

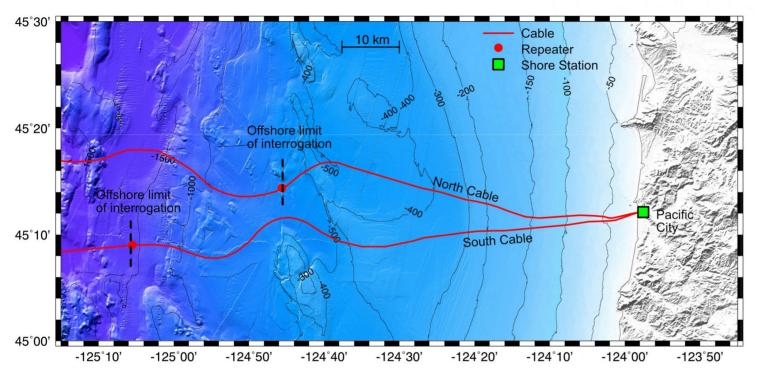
Ethan F. Williams

Qibin Shi, Brad Lipovsky, William Wilcock, Marine Denolle, Deb Kelley, and UW/APL OOI team

CRESCENT Offshore Obervations Workshop October 27, 2025



2021 pilot DAS experiment, PI: William Wilcock



4-day test: Nov 1-5, 2021

OptaSense QuantX DAS Silixa iDASv2 Silixa Ultima DTS

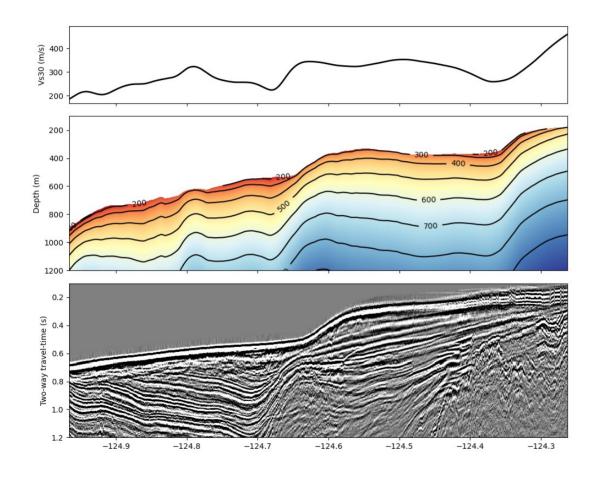
Continuous recording on both north and south fiber

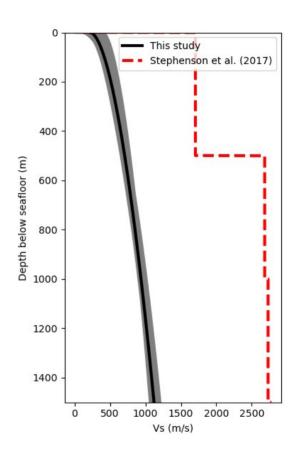
Open dataset



https://doi.org/10.58046/5J60-FJ89

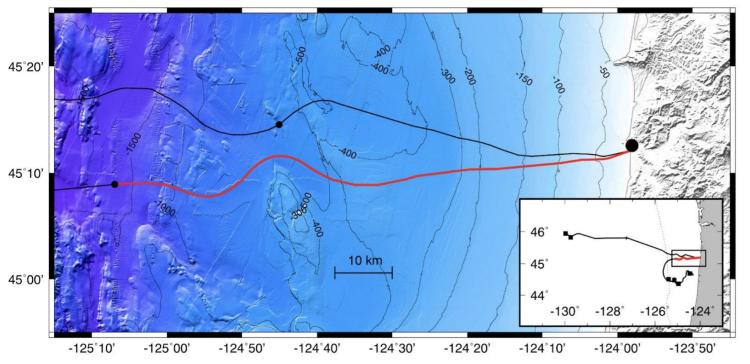
Site amplification correlated with topography





Feng, Williams et al. (in prep)

2024 multiplexed DAS experiment, PI: Brad Lipovsky



4-day test: Nov 6-10, 2024

ASN OptoDAS (L-band)

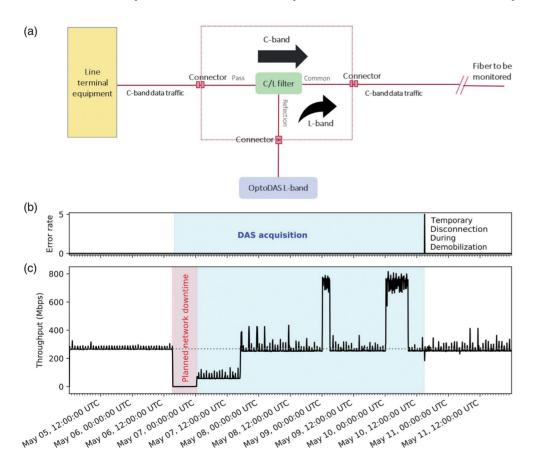
Continuous recording on south fiber only

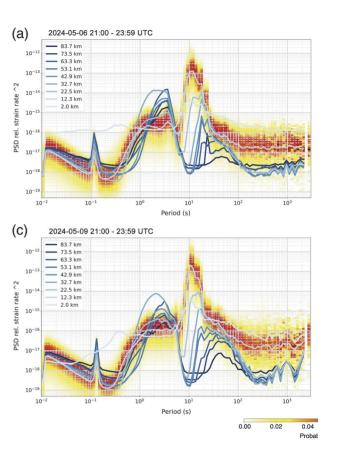
Open datset



https://doi.org/10.58046/4WEF-A282

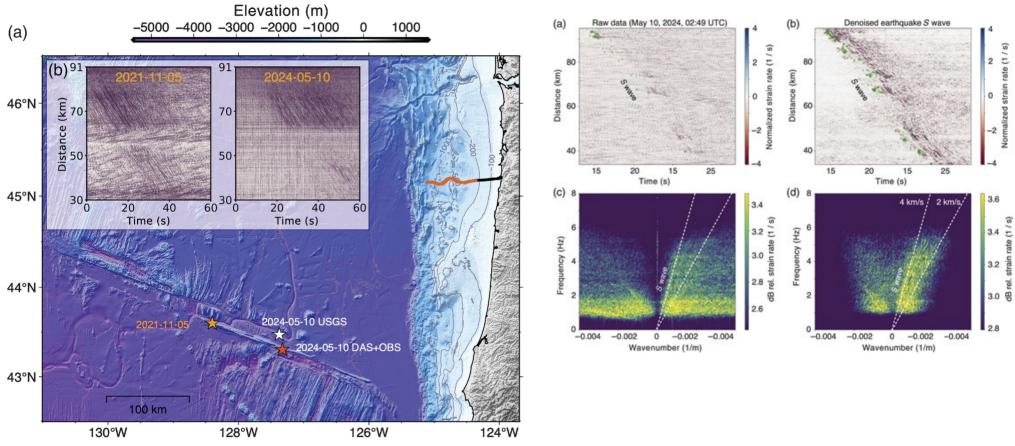
2024 multiplexed DAS experiment, PI: Brad Lipovsky





Shi, Williams, et al. (2025) SRL

Earthquake and T-wave detection with machine learning denoising



Shi, Williams, et al. (2025) SRL

Tidal modulation of infragravity waves

