

Ocean Observatories Initiative Facilities Board Town Hall

Lightning Talks

December 10, 2018

Lightning Talks one slide, one minute Town Hall Lightning-Talk Presenters

Ashley Burkett, Oklahoma State University
Bill Chadwick, OSU & NOAA
Matt Cook, Scripps Institution of Oceanography
Adrian Doran, Scripps Institution of Oceanography
Molly James, University of Connecticut
Hilary Palevsky, Woods Hole Oceanographic Institution
Dax Soule, Queens College
Richard Signell, USGS

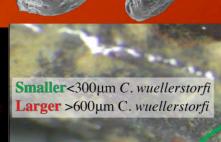


Ashley BurkettBoone Pickens School of Geology Oklahoma State University

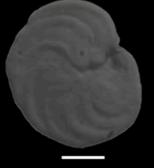


- · Benthic foraminifera
- SEA³S (Seafloor Epibenthic Attachment Cubes)
- Looking for collaborators!!
- ashley.burkett@okstate.edu





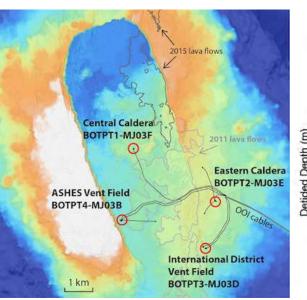








Bill Chadwick: Axial Seamount OOI real-time BPR data: www.pmel.noaa.gov/eoi/rsn/



Related presentations at this year's AGU:

Natalie et al. – Poster – Thurs-pm V43G-0211

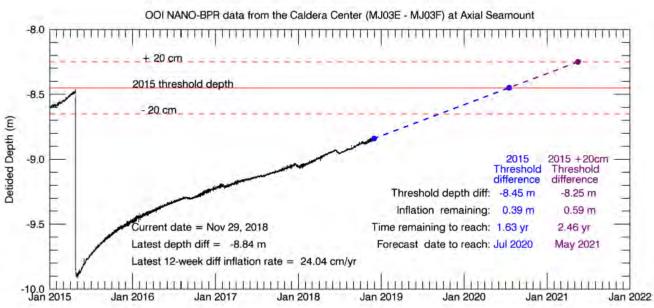
The relationship between post-2015 eruption deformation and seismicity rates since the 2015 eruption at Axial Seamount using OOI data

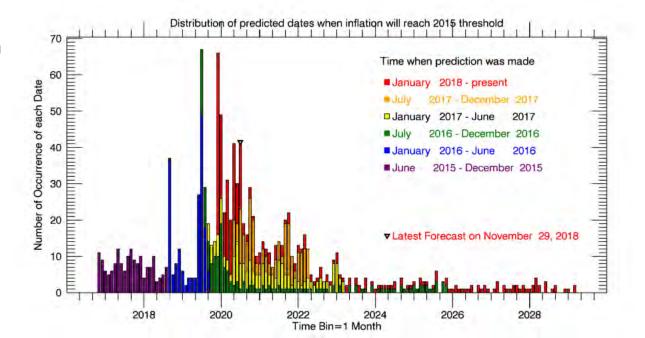
Hefner et al. – Poster – Thurs-pm V43G-0212

Magmatic Source Estimates at Axial Seamount for the 2015 Eruption From Seafloor Deformation and Seismic Data

Cook et al. – Talk – Thurs-pm T44C-08

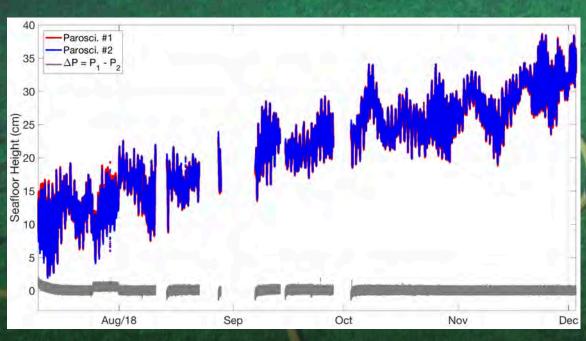
Calibrated pressure measurements for seafloor geodesy





Cabled SCPR at Axial Seamount

Drift-corrected seafloor pressure for vertical deformation monitoring



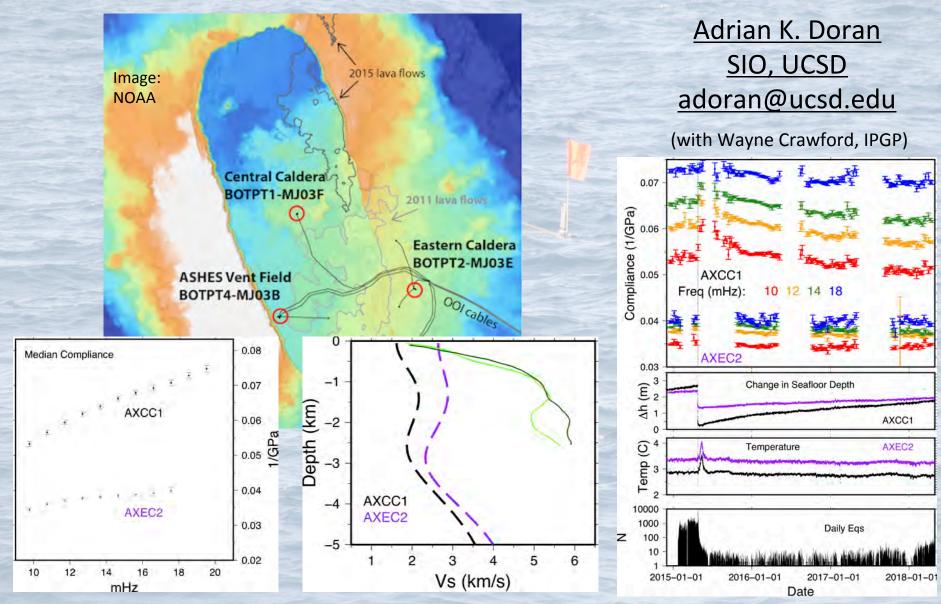
Mark Zumberge mzumberge@ucsd.edu

Glenn Sasagawa gsasagawa@ucsd.edu

Matthew Cook m2cook@ucsd.edu

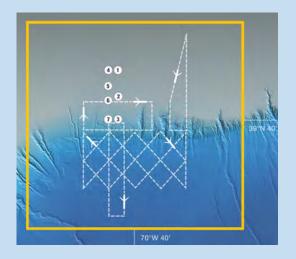
Scripps Institution of Oceanography University of California, San Diego

Continuous Imaging of Subsurface Melt with Seafloor Compliance Data

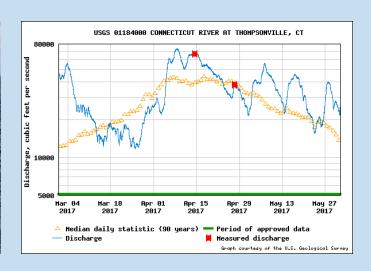


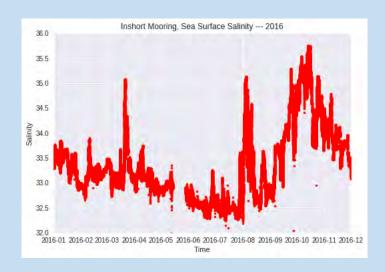
Low seasonal SSS anomaly at Pioneer Array

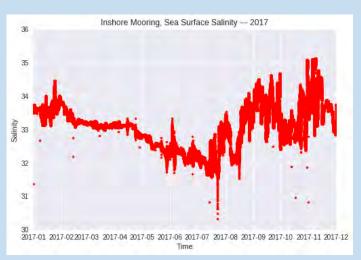
Molly M. James – University of Connecticut – molly.james@uconn.edu



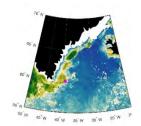












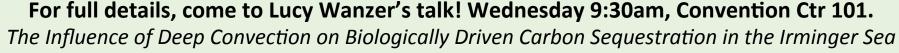
The annual cycle of the biological carbon pump at the OOI Irminger Sea Array

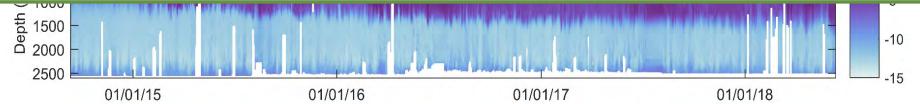
Hilary I. Palevsky, Wellesley College, hpalevsky@wellesley.edu



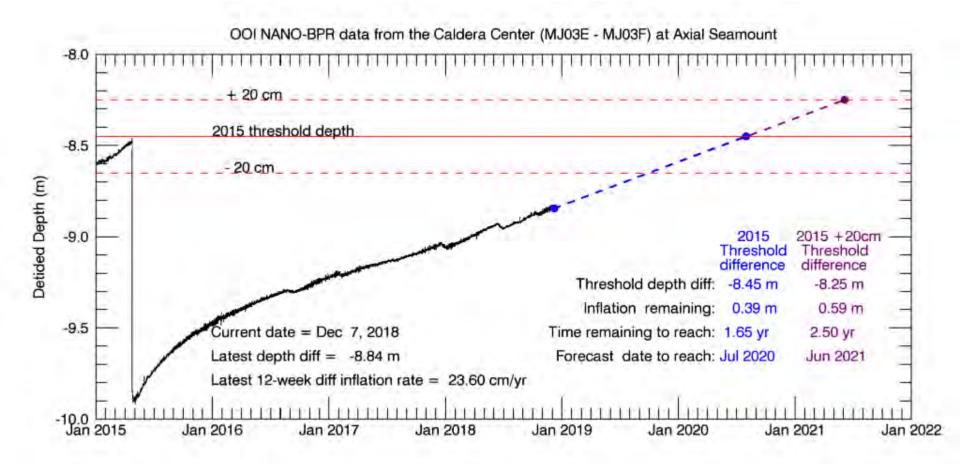
Deployed 2 gliders with air-calibrating oxygen sensors at the OOI Irminger Sea Array in June 2018

Undergraduate student researchers collected samples at sea and are using OOI data





Co-Located Geophysical Measurements









Caarah

time of measurement

Measurements and Modeling of Wind-Wave-Current Interactions







Ken Melville & Luc Lenain (Scripps Institution of Oceanography, UCSD)

Goal: to better understand how currents modulate surface waves, and how surface waves transfer momentum to currents, especially through breaking surface lidar,

Approach: Use a combination of **airborne remote sensing** to accurately measure directional surface wave fields, surface currents, and breaking, in the area of the Ocean Observatories Initiative (OOI) **Pioneer Array**. The airborne measurements were supported by the Pioneer Array measurements of the airsea fluxes of momentum and energy, and profile measurements of temperature, salinity and currents through the water column and supplemented by **two Wave Gliders** instrumented to measure the lower atmospheric boundary layer and the upper 50 m of the water column.



