



Regional Cabled Array

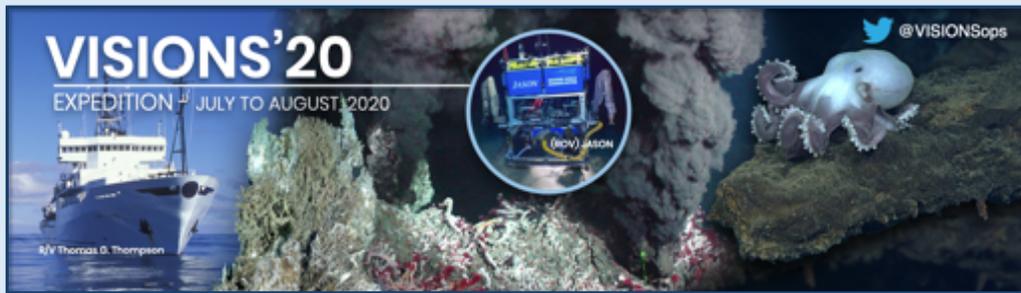
Debbie Kelley and RCA Team, University of Washington

Fall AGU DESSC Meeting

December 4, 2020

dskelley@uw.edu





Chief Scientists:

Brendan Philip: UW-Georgetown University Masters student! Past VISIONS student

Orest Kawka: RCA Senior Research Scientist

RCA Maintenance Cruise TN382

Onboard the *R/V Thompson* with the *ROV Jason* - Mobilize July 30 - Return August 28, 2020

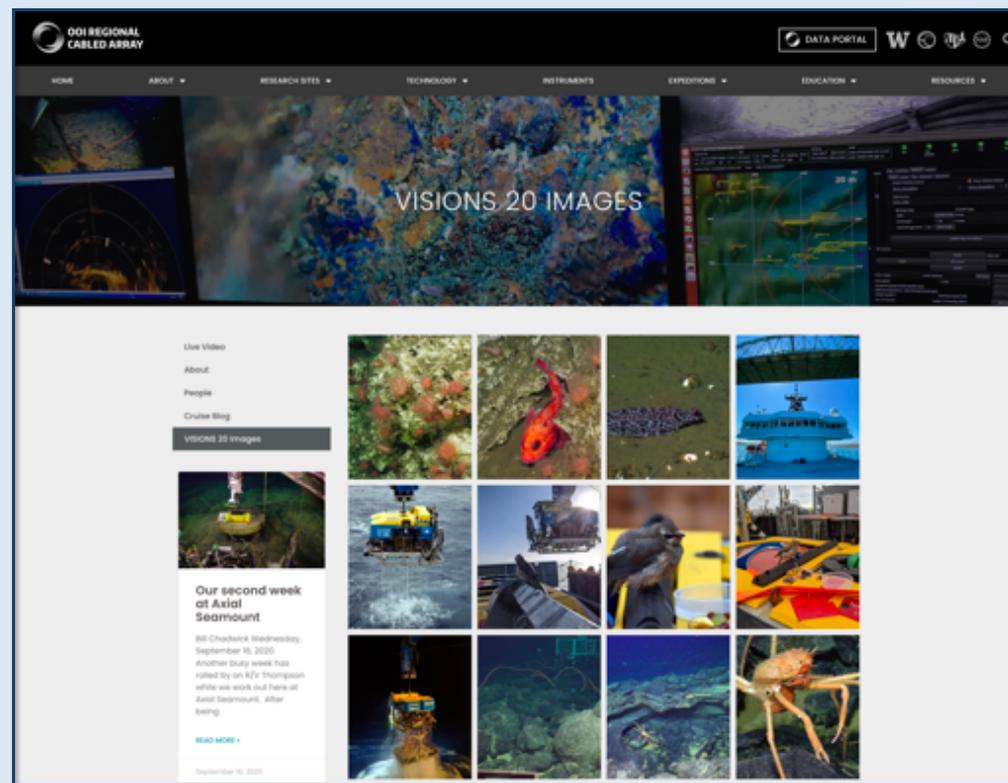
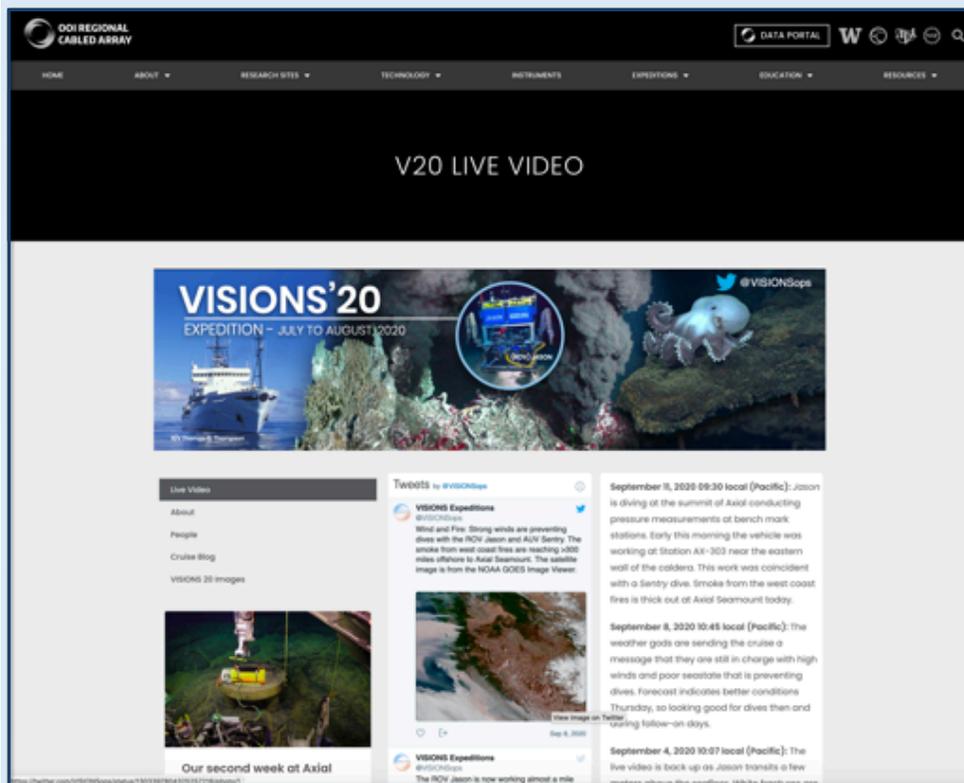
Newport - Newport 3 Legs

All objectives & more met even though snarky weather

- ▶ 14 day quarantine, 1/2 team in Newport Oregon; no VISIONS students; Kelley for first time did not sail; down ~ 10 RCA at sea participants
- ▶ Over 350,000 lbs of gear mobilized/demobilized, 13 - 53 ft semi trucks moved gear between Seattle and Newport, OR
- ▶ During 23 days at sea, the *R/V Thompson* transited >1200 miles, all sites were visited. Jason completed 44 dives to water depths of 80-2900 m.
- ▶ During the 44 dives, 118 instruments were recovered, 107 installed back onto the array, 6 Shallow Profiler mooring platforms and 3 Deep Profiler vehicles turned, 2 BEP's and 3 junction boxes.
- ▶ Thousands of meters of Deep Profiler cable cleaned



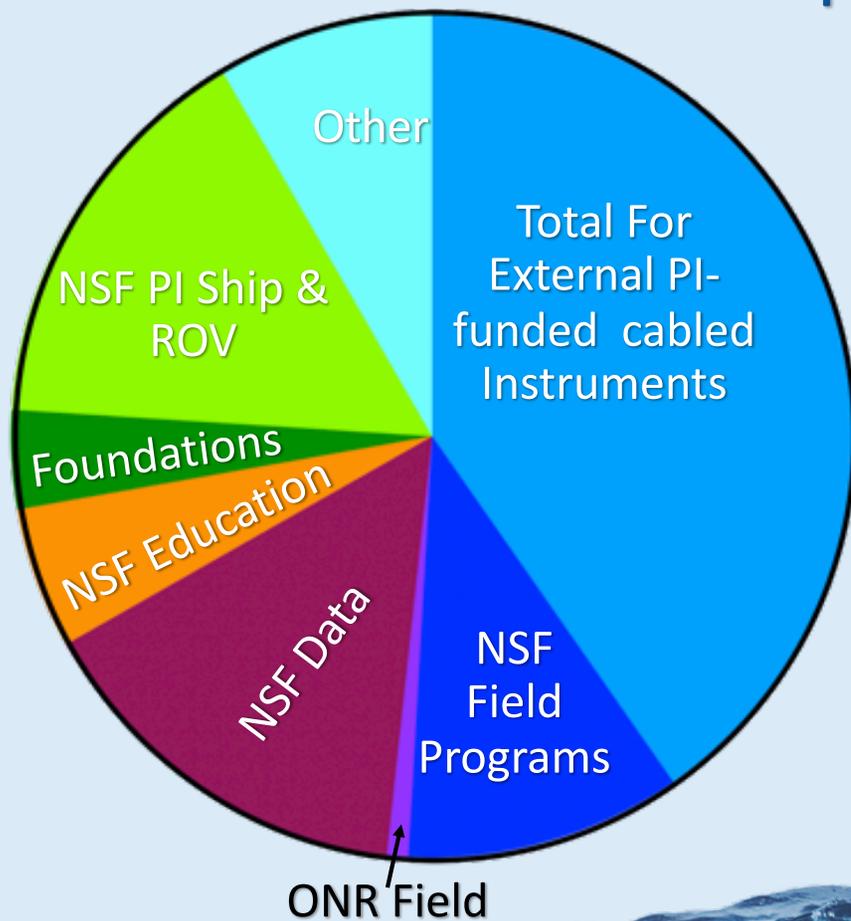
Regional Cabled Array O&M Cruise 2020: Engagement



- VISIONS'20 website with live streaming video during all deck and *Jason* operations, cruise blog, and look-ahead calendar. VOIP phones connected to shore-based personnel and PI's (e.g. Chadwick).
- Significant image gallery for public use - best hits video in progress
- First time *Jason* logging from shore



RCA PI Total External Funding Including Ship and ROV support 2016-present



A diverse funding portfolio
~ \$36.9M* for Regional Cabled Array work, associated field programs, education and data efforts

* Does not include *R/V Langseth* funding

65 Funded awards (PI and Subawards)
66 PI's & Co-PIs
32 Institutions (including JPL and UNAVCO), 2 industry

