

AT42-21 hot2cold Vents 2 NSF Bio-OCE 17 Dec. 2020 – 07 Jan. 2020

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Co-Chief Scientists:
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WHOI

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WHOI

Alvin Dives 5039-
5050
East Pacific Rise
9°50'N

Three interdisciplinary projects

11 Sentry Dives:
D551-D561

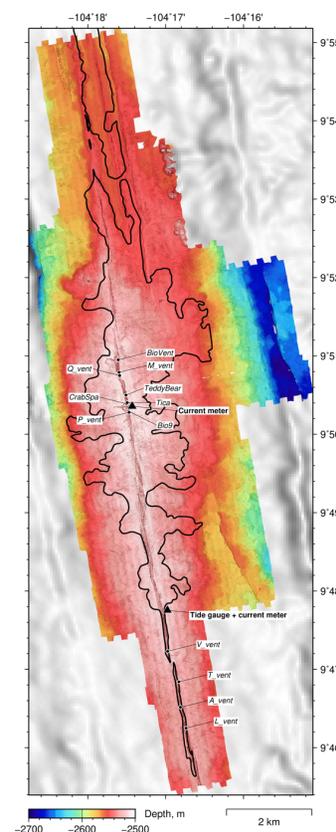


1. How do microbiology, mineralogy and geochemistry change in the first year post venting?

Also: explore inactive vent site off axis and recover colonization experiments

2. How long does it take disturbed macrofaunal communities to recover?

Also: initiate biofilm/colonization experiments, study crab physiology, document parasite species and life histories, measure tides and baseline prior to next eruption



Also:
vent fluid

AT42-21 Personnel and Outreach Highlights

Personnel

- 21 scientists from 11 institutions (US, Germany, Canada, UK)
- 13 early-career scientists: pre-tenure (4), postdocs (2), grad students (7)
- 1 freelance outreach officer
- 14 female scientists, 1 gender non-binary and 6 male
- 6 new Alvin users

Outreach highlights

- 3 ship-to-shore calls
- 1 Gizmodo article
- 1 film by M. Lubetkin shown at Woods Hole Film Fest, Maine Outdoor Film Fest
- 14 published posts on website; 3184 views from 911 visitors
- 2 takeovers of AGU instagram account, shared w/ ~26,000

