

# ECS 2018 Participants

## Geophysics



**Aida Farough**  
Kansas State



**Ross Parnell-Turner**  
Scripps

## Microbiology



**Carolyn Tepolt**  
WHOI



**Santiago Herrera**  
Lehigh

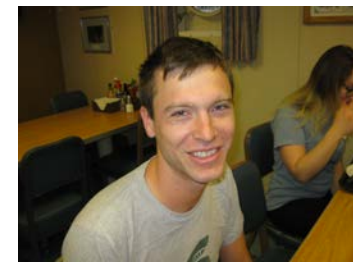
## Geochemistry



**Alysia Cox**  
Montana Tech



**Drew Syverson**  
Yale



**Dalton Hardisty**  
Michigan State

## Microbiology



**Rika Anderson**  
Carleton



**Karthik Anantharaman**  
Wisconsin



**Heather Fullerton**  
College of Charleston

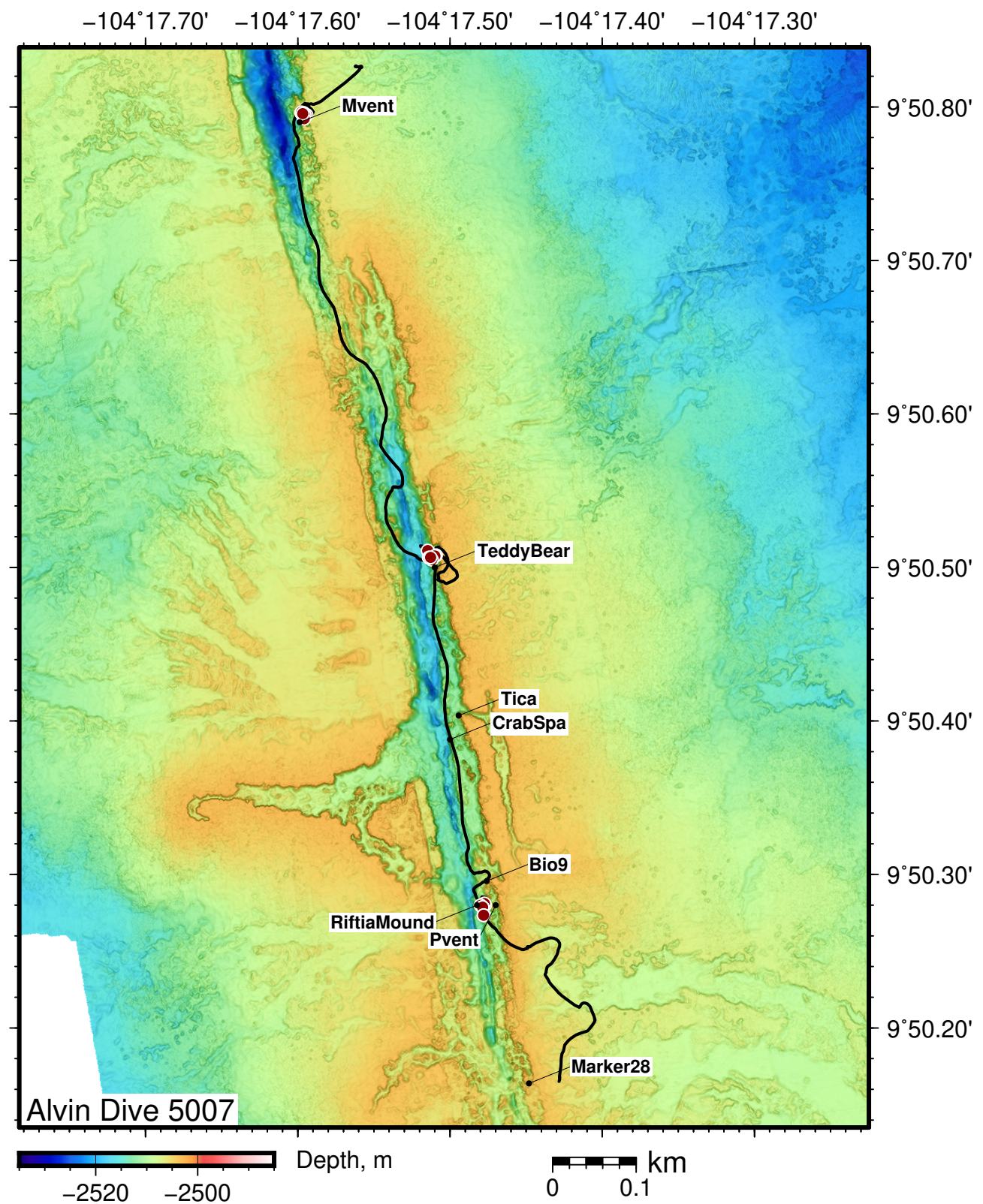
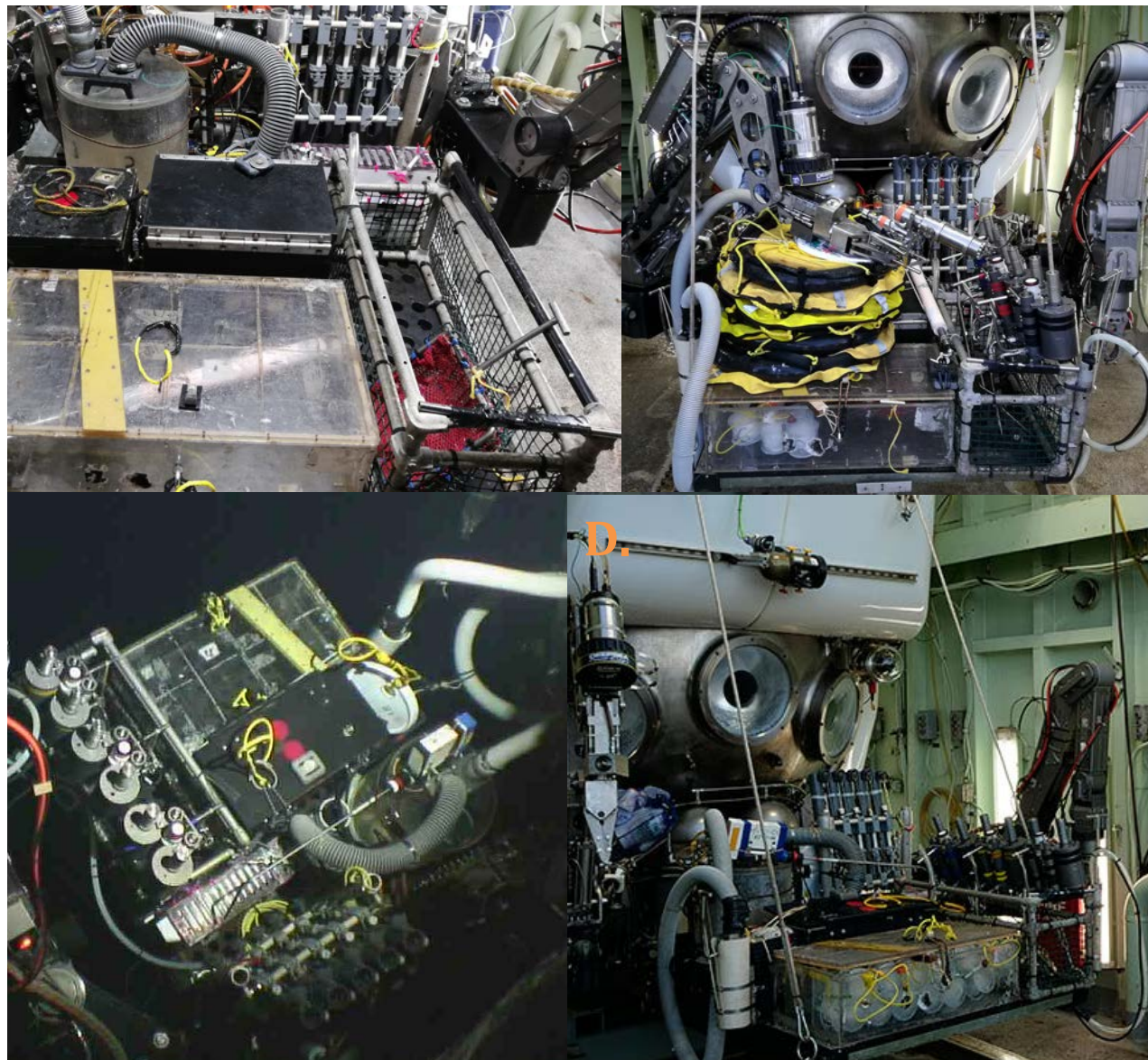


**Elizabeth Trembath-Reichert**  
WHOI/Arizona State



# Alvin Ops

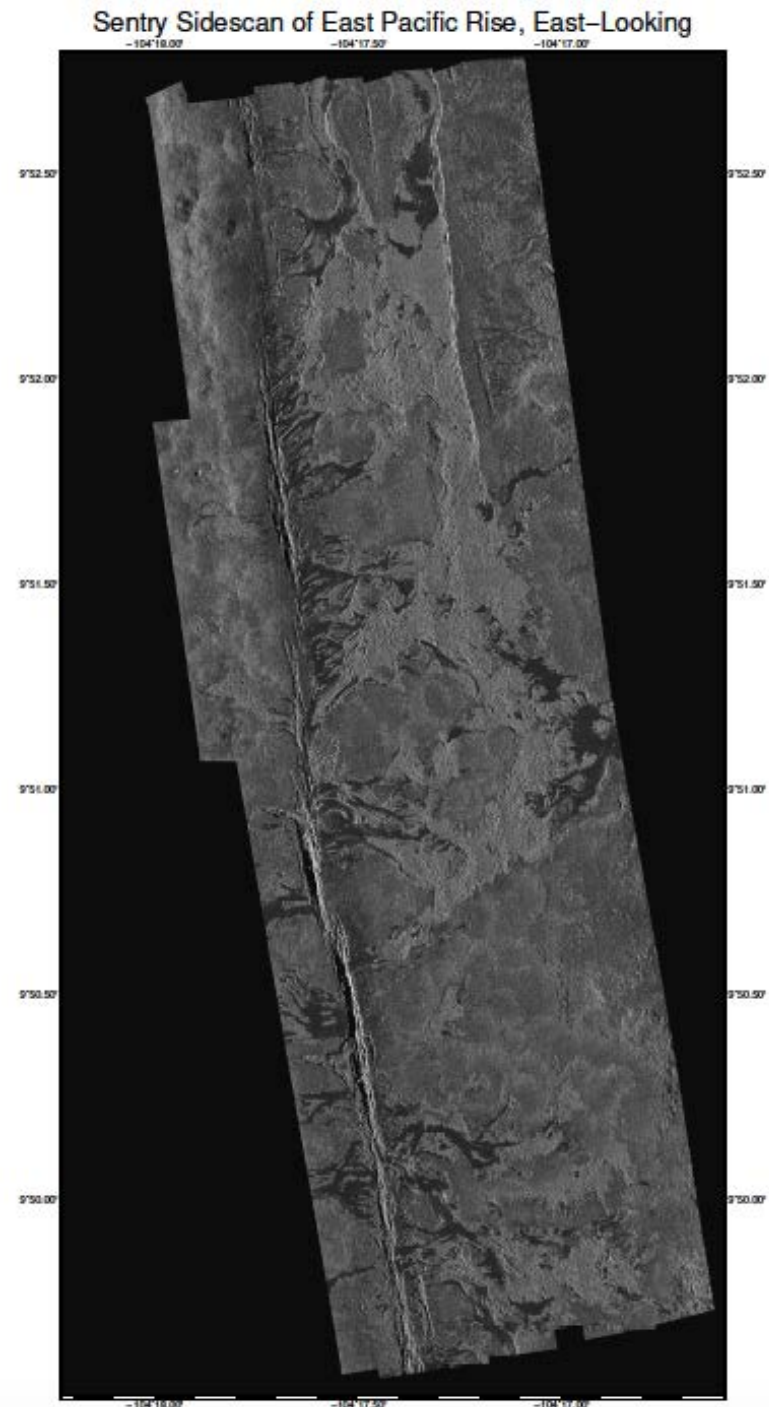
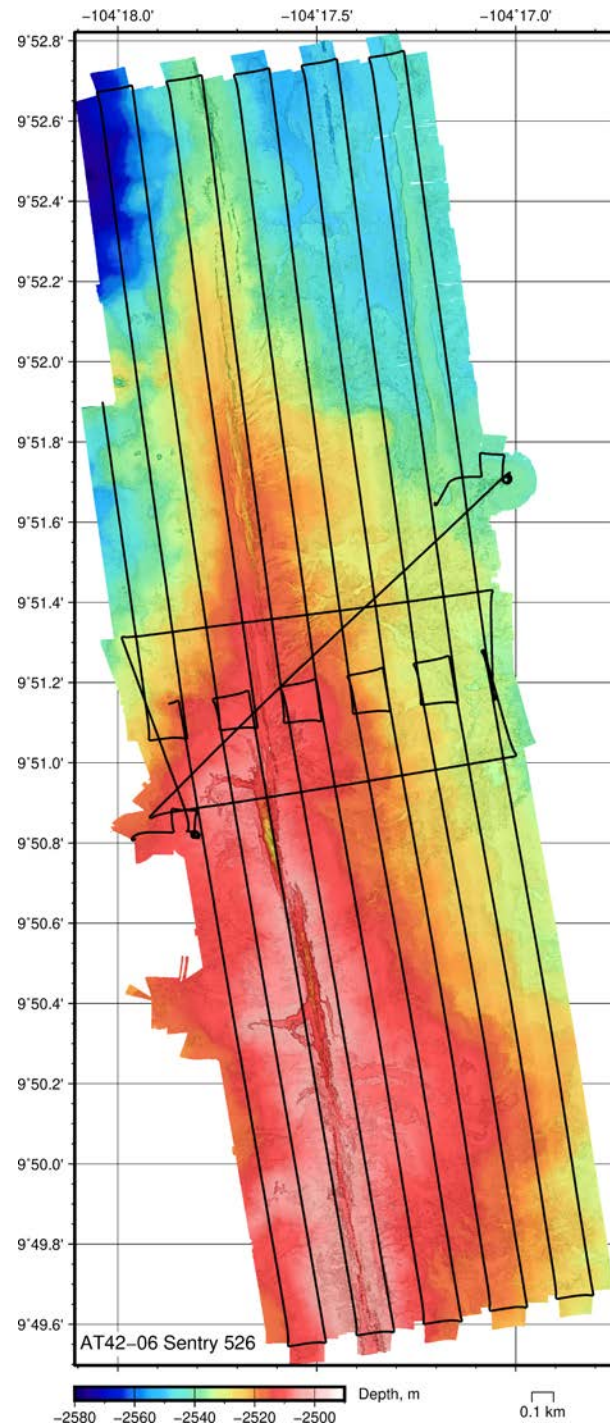
Pilot	Port Observer	Starboard Observer	Dive start time (UTC)	Dive end time (UTC)	Max depth (m)
Jefferson Grau	Santiago Herrera	Aida Farough	13:53	23:22	2518
Danik Forsman	Elizabeth Trembath-Reichert	Alysia Cox	13:59	23:02	2522
Mike Skowronski	Karthik Anantharaman	Dalton Hardisty	14:00	23:42	2516
Jefferson Grau	Heather Fullerton	Drew Syverson	13:57	23:04	2516





# Sentry Ops

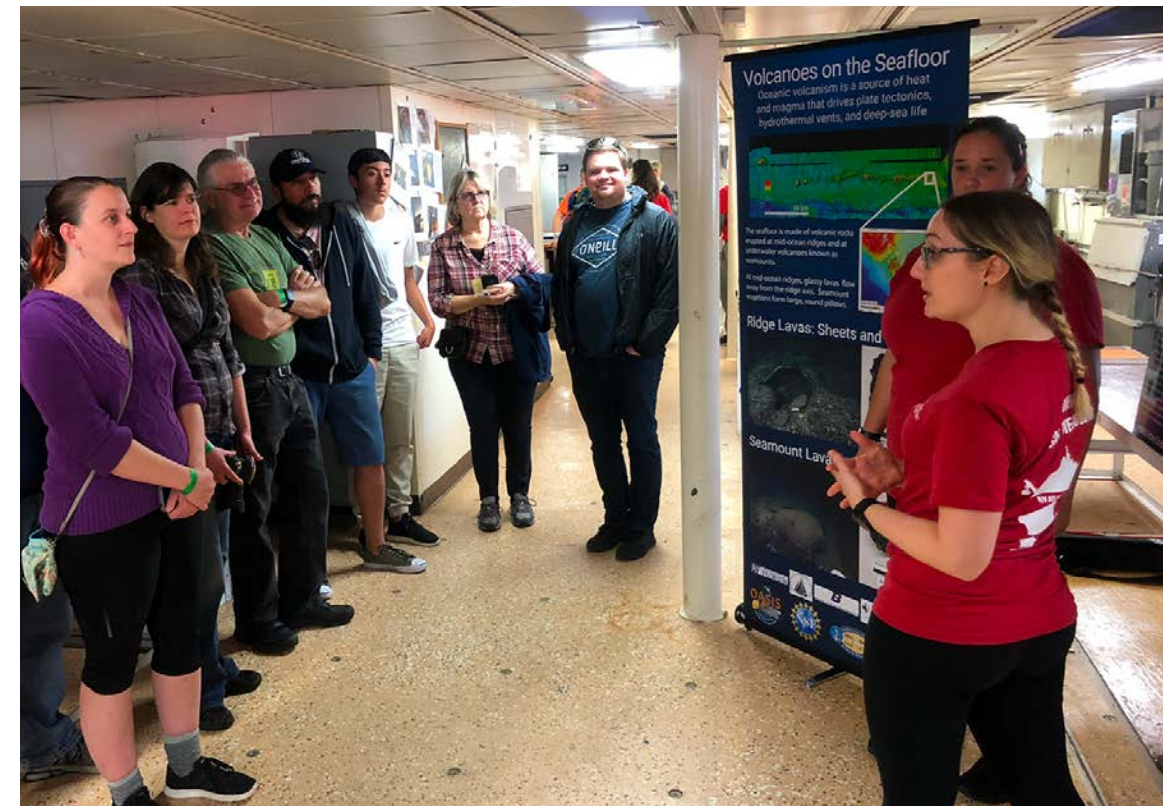
Sentry Dive	Date UTC	Area	Objective	Bottom time (hours)	Avg. speed (m/s)	Avg. depth (m)	Avg. alt (m)	Distance (km)
523	12/10/18	EPR 9°50'N	Seafloor mapping	2.9	0.93	2440	67	9.85
524	12/11/18	EPR 9°50'N	Water column	10.2	0.59	2484	23	21.94
525	12/12/18	EPR 9°50'N	Seafloor mapping	10.3	1	2465	67	37.65
526	12/13/18	EPR 9°50'N	Seafloor mapping	9.9	1.04	2449	66	37.41





## Outreach

- Ship to Classrooms (~520 students)
- AGU Live from the seafloor and Top Lab
- ECS Facebook (~350 followers, 34,000 reach)
- ECS Twitter (~171,216 reach)
- IG/AGU IG takeover (~7000 likes/comments)
- ECS Blog posts (~800 page views)
- ECS/OASIS San Diego Event (~800 visitors)



## Direct Outcomes

- 90% ECS responded now more capable as a Chief Scientist at sea
- Interdisciplinary deep sea network of peers
- Lectures at participant institutions
- Proposals (NSF/DOE)
  - Submitted (2)
  - Planned (3)
- UNOLS Chief Sci R/V Pelican (Santiago)
- Outreach talks, print and TV interviews (even some DJ sets)
- Videos and hand samples on display in campus public spaces
- ECS mentors able to provide samples for undergraduate, masters, PhD students in their labs

