ECS 2018 Participants

Geophysics

Aida Farough
Kansas State

Ross Parnell-Turner
Scripps

Macrobiology

Carolyn Tepolt
WHOI

Santiago Herrera
Lehigh

Geochemistry

Alysia Cox
Montana Tech

Drew Syverson
Yale

Dalton Hardisty
Michigan State

Microbiology

Rika Anderson
Carleton

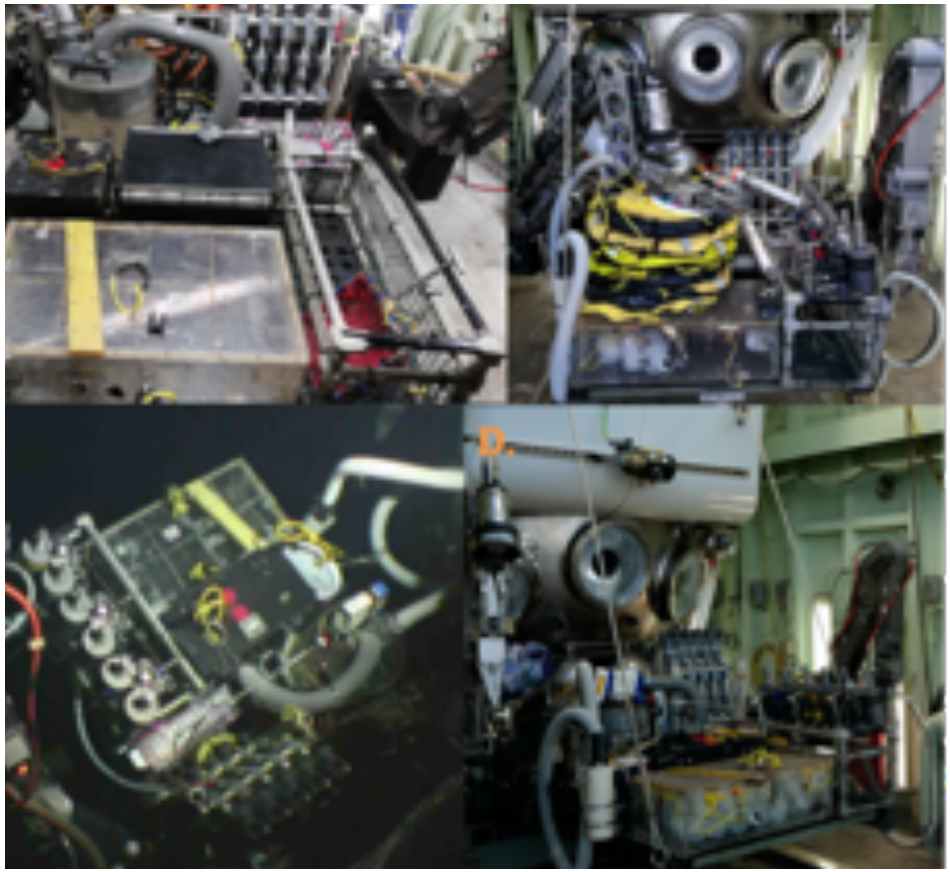
Karthik Anantharaman
Wisconsin

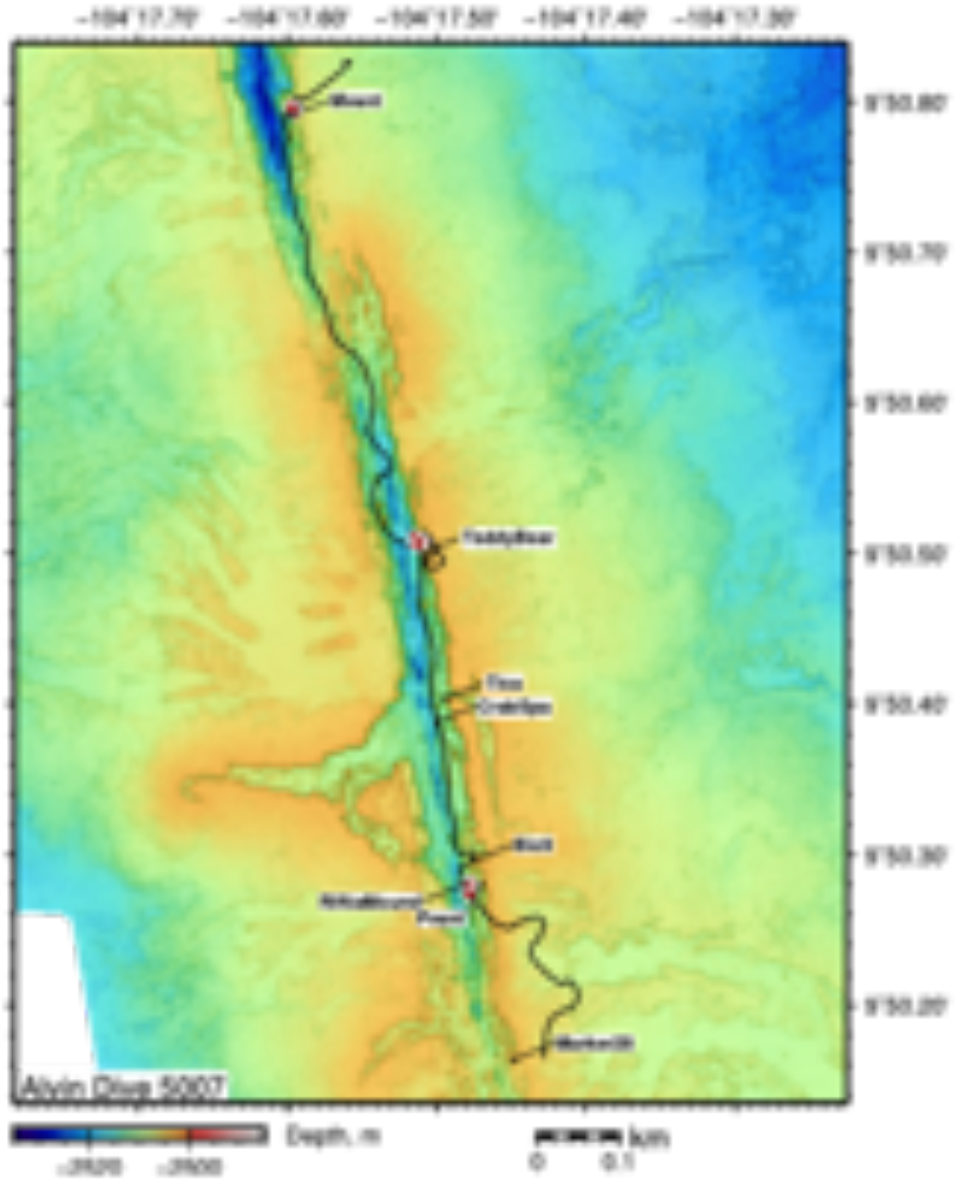
Heather Fullerton
College of Charleston

Elizabeth Trembath-Reichert
WHOI/Arizona State

Alvin Ops

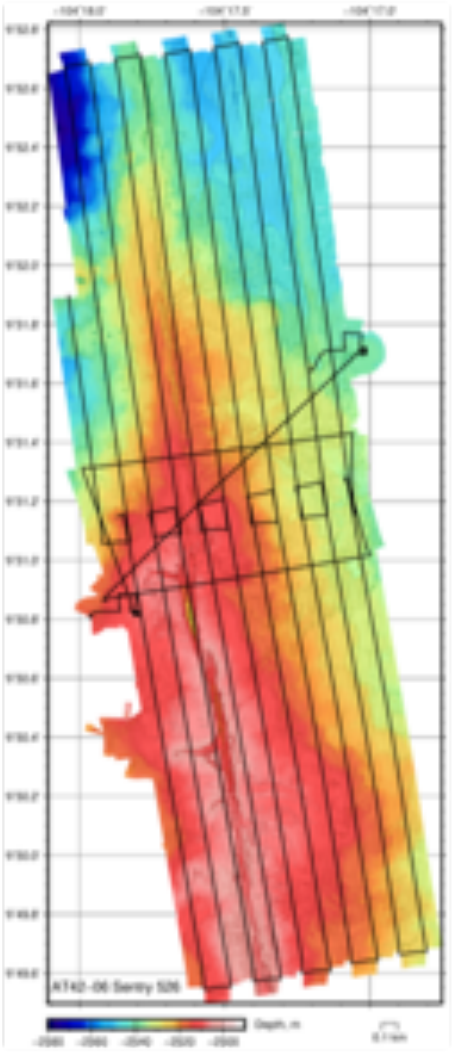
Pilot	Port Observer	Starboard Observer	Dive start time (UTC)	Dive end time (UTC)	Max depth (m)
Jefferson Grau	Santiago Herrera	Aida Farough	13:53	23:22	2518
Danik Forsman	Elizabeth Trembath-Reichert	Alysia Cox	13:59	23:02	2522
Mike Skowronski	Karthik Anantharaman	Dalton Hardisty	14:00	23:42	2516
Jefferson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

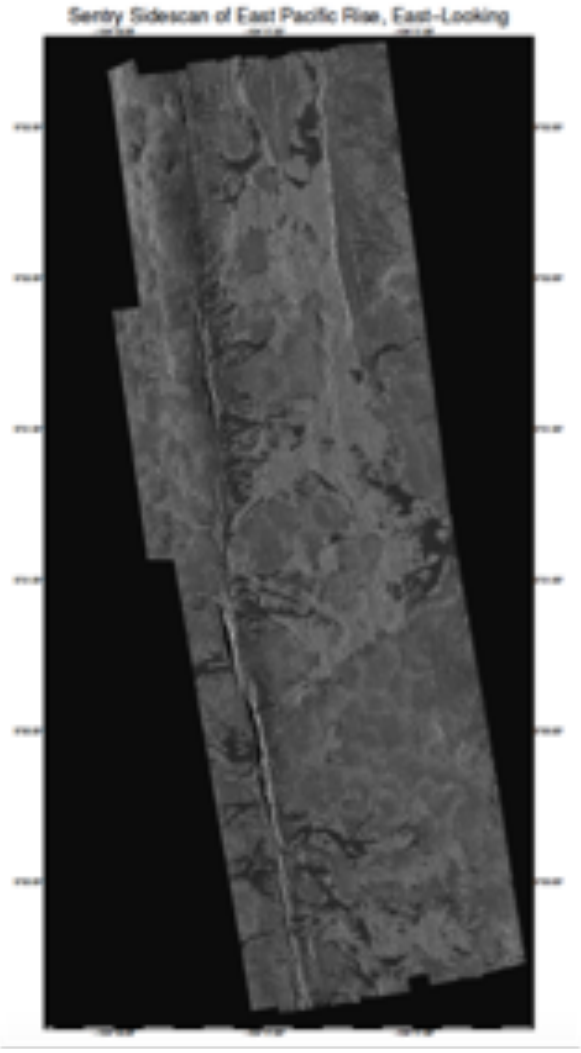




Sentry Ops

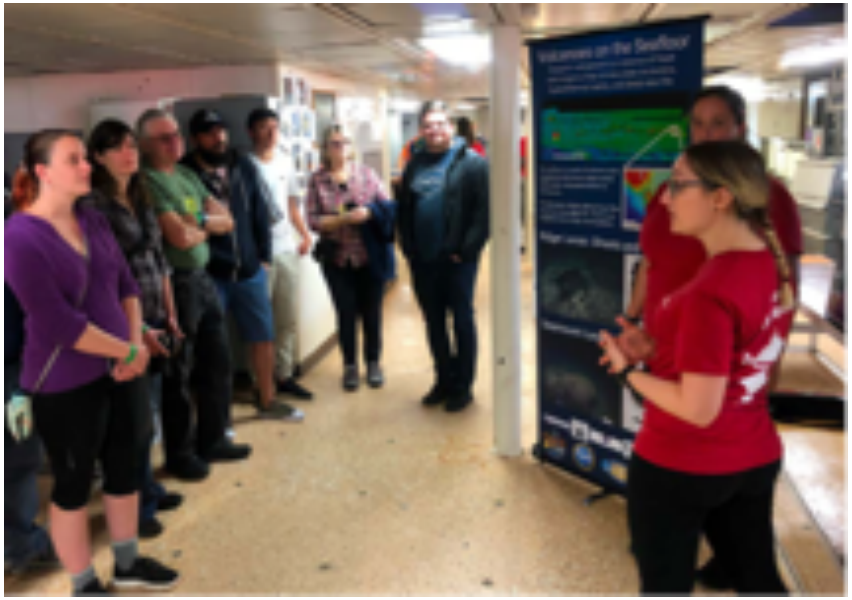
Sentry Dive	Date UTC	Area	Objective	Bottom time (hours)	Avg. speed (m/s)	Avg. depth (m)	Avg. alt (m)	Distance (km)
523	12/10/18	EPR 9°50'N	Seafloor mapping	2.9	0.93	2482	67	9.85
524	12/11/18	EPR 9°50'N	Water column	10.2	0.59	2484	23	21.94
525	12/12/18	EPR 9°50'N	Seafloor mapping	10.3	1	2485	67	37.85
526	12/13/18	EPR 9°50'N	Seafloor mapping	9.9	1.06	2489	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