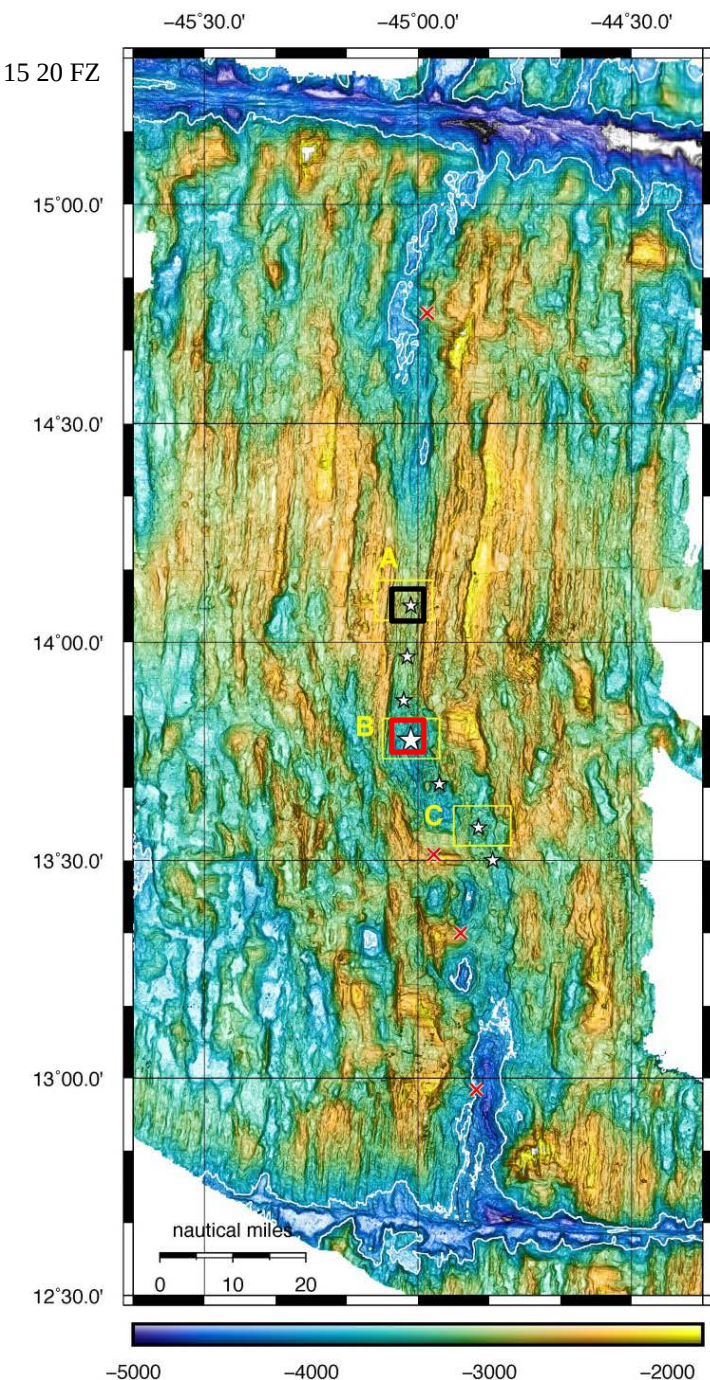
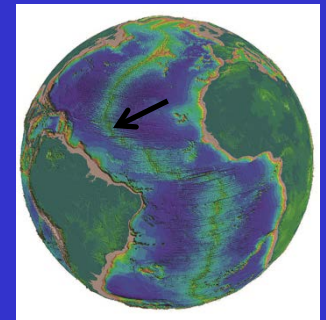




Popping Rocks cruise

*Goal: to constrain the origin
of gas rich basalts*



Mid Atlantic Ridge near 14° N

R/V Atlantis (AT33-03), Sentry, Alvin

March 7, 2016 Bridgetown (4 days transit)

April 2, 2016 Charleston SC (13 days transit)

Mark Kurz, WHOI (Chief Sci.)

Eric Mittelstaedt, Idaho (Co-Chief)

Dan Fornari, WHOI

Dorsey Wanless, Boise State

Adam Soule, WHOI

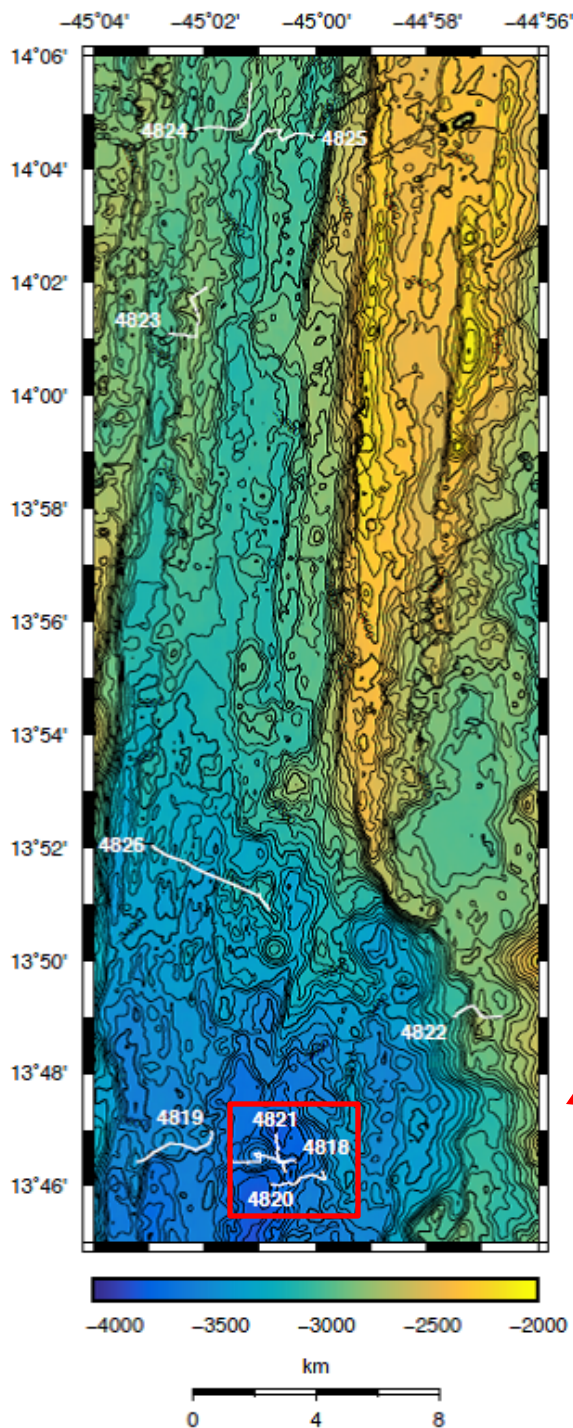
Frieder Klein, WHOI

[Javier Escartin, Paris]

1 Post Doc, 5 grad students, 2 undergrads

Marathon Fracture Zone



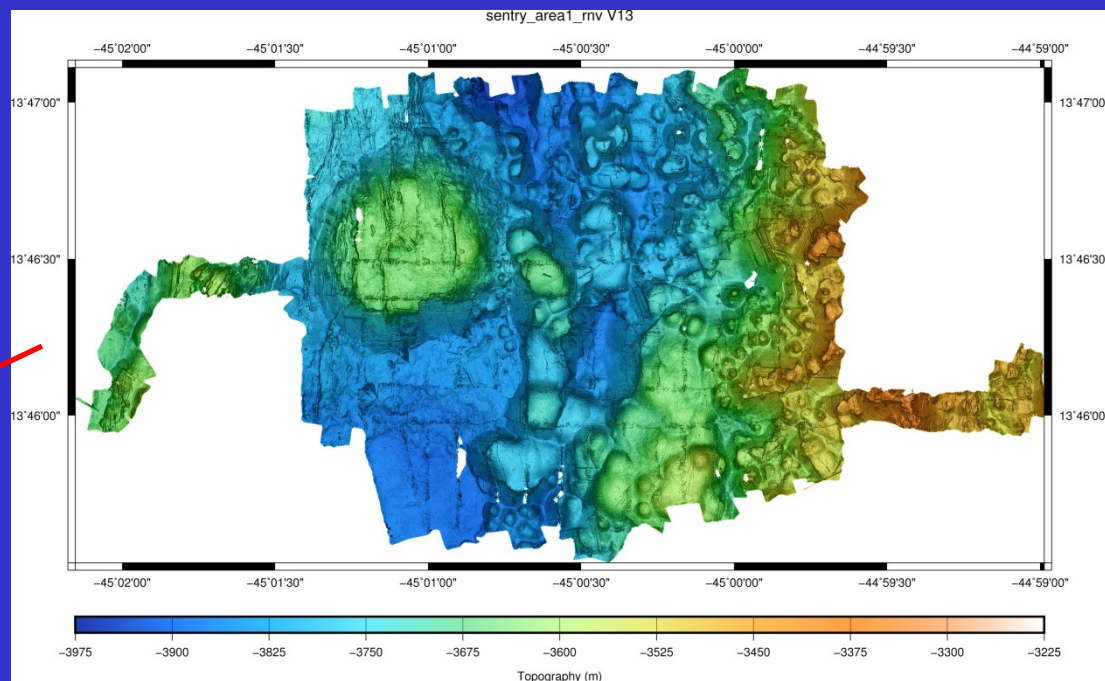


Outreach by Maris Wicks: poppingrocks.whoi.edu

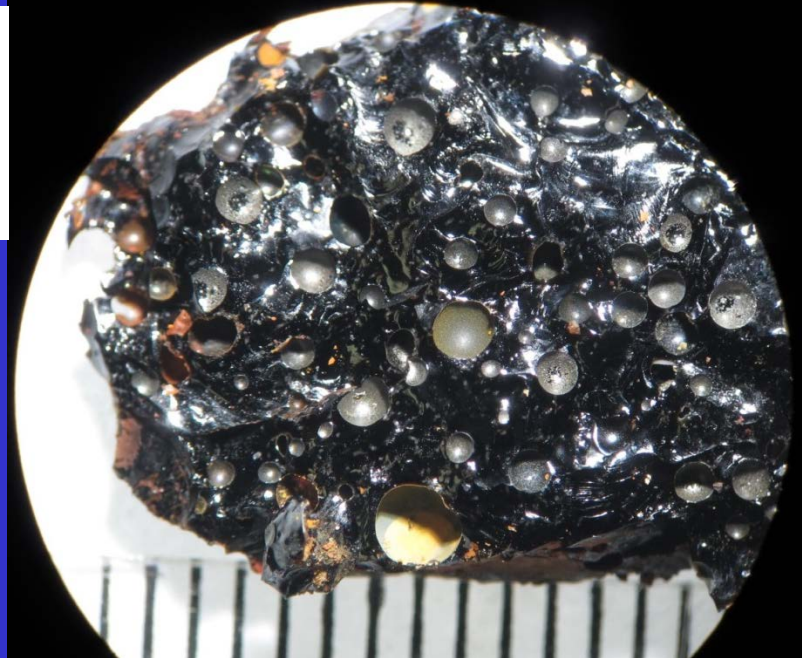
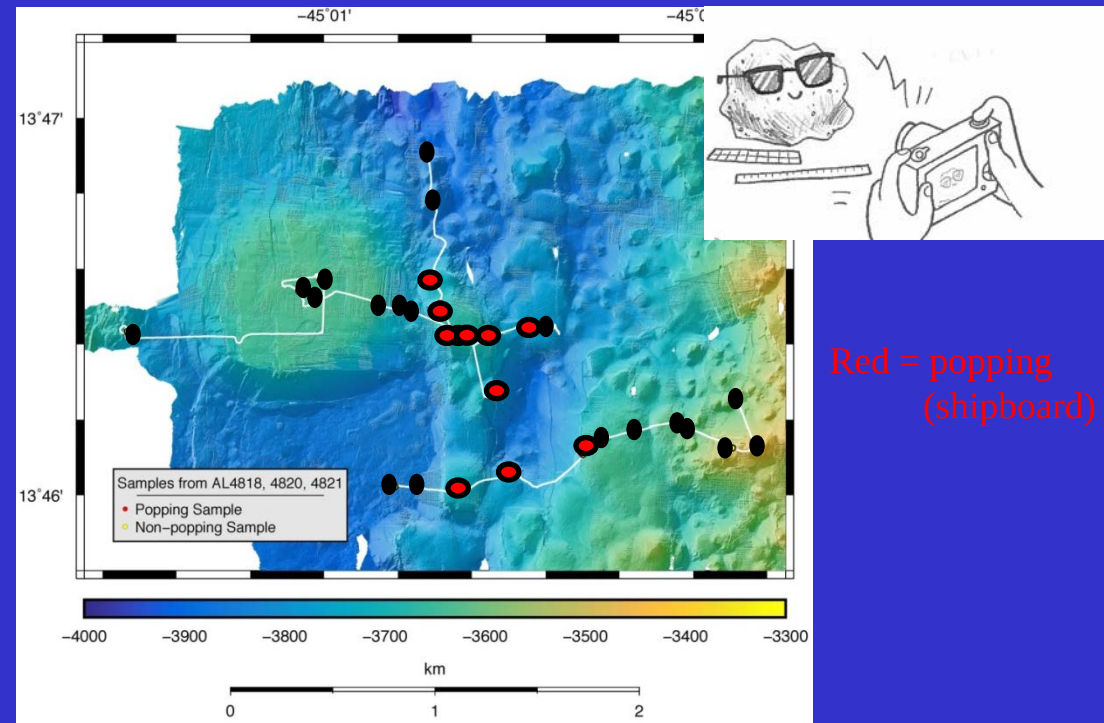
9 Alvin science dives (4818-4825)

9 Sentry dives (371-379)

We found popping rocks!



1 of 2 Sentry maps



~ 15-20 % vesicles: huge CO₂ contents!

We hope to return in 2018 to finish the field work!



(Sediment-covered pillows and collapsed pillows)

Preliminary measurements, at AGU:

Kurz et al. Helium, CO₂
(T32A-03 Wed. 10:50, Mosc. South 310)

Meghan Jones et al.: volatiles, vesicularity
(V34C-05 Wed. 17:00, Mosc. South 310)