





Sentry Operations on R/V Atlantic Explorer Leg 1823

Mob: Aug 19-21, 2018, St. George's

Departure: Aug 22, 2018, St. George's

Arrival: Aug 31, 2018, St. George's

Demob: Sep 01, 2018, St. George's

Master: Captain George Gunther

Ops Site: Bowditch Seamount, 25 NM NE of

Bermuda

Sentry Team At Sea:

- Zac Berkowitz Sentry Expedition Leader
- Justin Fujii
- Ian Vaughn, Ph.D.
- Jennifer Vaccaro
- Manyu Belani
- Andrew Cole

Sentry Team on Shore:

- Sean Kelley (including Mob in Bermuda)
- Masako Tomanaga, PhD, Field Ops Coordinator
- Kevin P. Kavanagh, Field Ops Asst. Coordinator

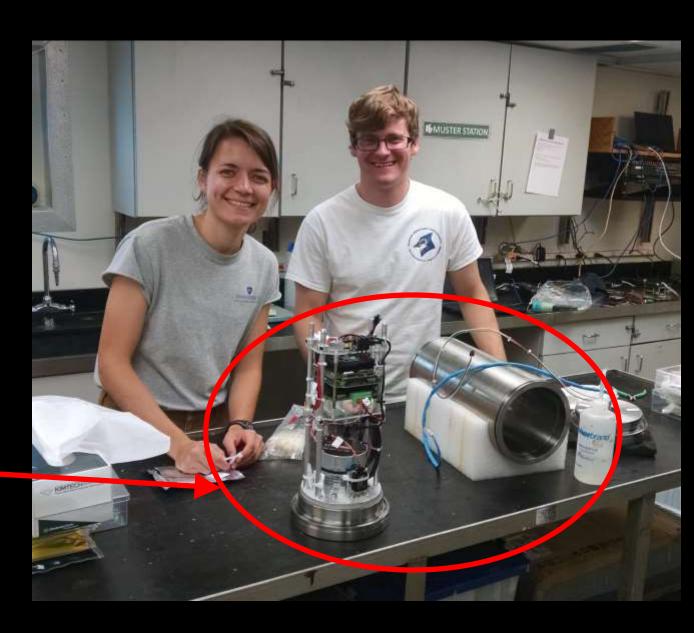
Summary:

- Engineering cruise to test two new PI-provided navigation instruments in PI-provided housings.
- Installed two PI-provided instruments during mob. Sentry team provided electrical and data (Ethernet) interfaces, mechanical interfaces, wet cabling, and software support from Sentry control system. All the science-provided gear was installed on the vehicle within ~24 hrs. This included removal of ~50 kg gear and required removal of some Sentry sensors and equipment that was not necessary for the operations.
- Sentry software team real-time bi-directional acoustic telemetry of PI-Provided instruments between instruments and ship.
- Pis shared bottom-time on most dives.
- 10 Sentry dives in 10 days. The vehicle worked flawlessly and the cruise didn't lose a single dive for any reason. As a solo-Sentry cruise, the vehicle was diving a large fraction of time at sea.
- R/V Atlantic Explorer officers, crew, and shore-side support outstanding.

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PI: Louis Whitcomb, NSF OCE 1435818,
Development of a Low-Cost True-North
Seeking Fiber Optic Gyrocompass and
Integrated Doppler Navigation System for
Precision Navigation of Underwater Vehicles
for Ocean Science

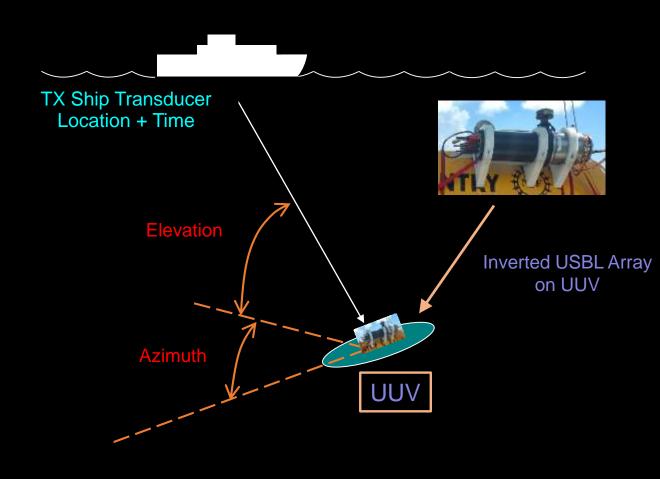


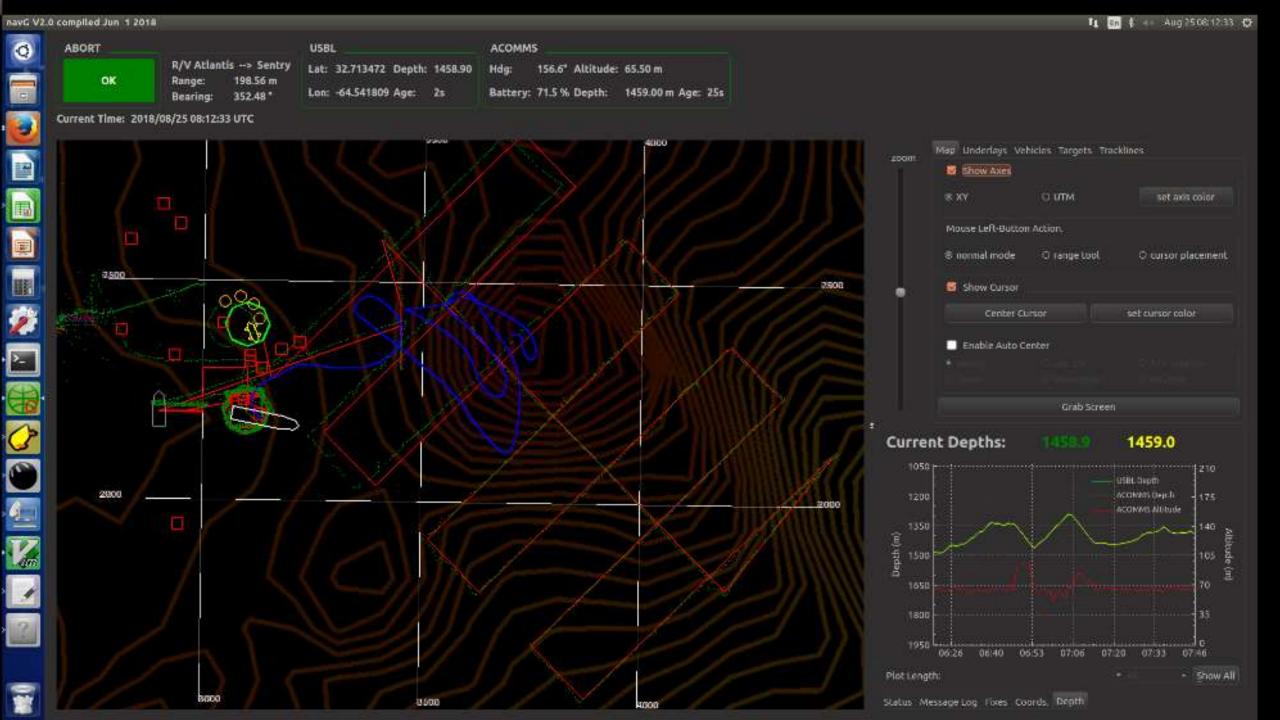


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PI: James Kinsey, NSF OCE 1634298, Collaborative Research: Persistent Presence in the Ocean Interior: Developing a Low-power, Autonomous System for Geo-referenced Navigation







Combined Sentry Bathy, Bowditch Seamount

