

Summary of 2021 *Sentry* Debriefs

Resing/German, SEPR (Sentry) Sep – Nov 2021

Michel (Jason/Sentry), Nov-Dec 2021

*Young (Sentry), Oct-Nov 2020

*Not debriefed yet

Sentry Debrief Highlights – Sensors and Tech

Conducted concurrent *Sentry* and CTD operations using Wave Glider as a comms relay and by using the Jason beacon on the CTD package to navigate

First integration of small Niskins (~1L) on *Sentry*.

Real-time communications between *Sentry* and ship were successful allowing temperature, O₂, ORP, and CH₄ monitoring

Weather window affected one cruise

Wave glider worked as comms relay from AUV to ship and further development of two-way comms would be very compelling

Sentry Debrief Highlights – Team

The science party was much more involved in dive planning than normal and both expedition leaders were accommodating and proactive with dive planning and decision-making.

Junior members of the team integrated well into the program

Sentry Pre-cruise Recommendations

Consider a direct discussion of the details of launch/recovery ops, who exactly needs to be involved, and the weather requirements for both ship and AUV

Update a FAQ to help anticipate what questions should be asked by the PI team, or trigger the PI to think about issues that may arise

Sentry Ops Recommendations

Wave glider was helpful for concurrent ops
acoustically-streamed data from Sentry was
incredibly helpful

advance the launch and recovery technology

Sentry Data Recommendations

None!