USBL on UNOLS Vessels

- NDSF vehicles each have their own Sonardyne Ranger 2 Systems (*Alvin/Atlantis*, mobile systems)
- When mobile system is used, calibration (CASIUS) is necessary—up to 12 hours (once per vessel installation)
- Some UNOLS vessels have permanent installations
  - Different types (Sonardyne & HiPAP)—see next slide
  - Adapting to permanent system requires either reconfiguring shipboard system or occasionally new code in *Jason* navigation system
  - Sometimes uncalibrated/poor calibration
  - System configurations, standards, expertise, locations, interfaces vary between vessels and cruises.
  - Not all systems support Acomms in the same way

USBL on UNOLS Vessels
Current Status

Vessel	USBL Type	Mounting
Atlantis	Sonardyne Ranger 2	stem
Revelle	none	well
Brown	none	Over the side pole
Thompson	In refit, Sonardyne head planned	Pole in instrument well
Sikuliaq	none	retractable centerboard
Kilo Moana	Sonardyne Ranger 2	mast
Neil Armstrong	Sonardyne Ranger 2	mast
Sally Ride	HiPAP	mast

USBL on UNOLS Vessels
Related Questions/Discussion

- Are there/should there be USBL standards for vessel operators? (Accuracy? Interface? Operators?)
- Where does the responsibility for calibration lie?
- NDSF is not the only USBL user
  - CTDs, camera sleds, dredges, nets—all can and do use USBL
- USBL is not the only transducer user—how are vessels supporting other through-hull access for devices?
- Topic for RVTech? FIC?