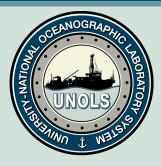


University-National Oceanographic Laboratory System UNOLS

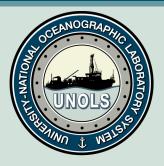
USBLs within the US ARF





Fleet USBL system inventory

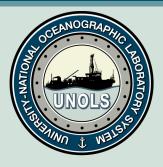
- RV Thompson Sonardyne Gryo-USBL system
- **RV Ride** Kongsberg HiPAP
- *RV Kilo Moana* Sonardyne Ranger 2
- *RV Atlantis* Sonardyne Ranger 2 and NSH w/ Ranger transceiver (older generation due to hull-hole size)
- *RV Armstrong* Sonardyne Ranger 2



Questions/Concerns

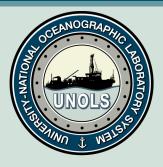
1. Who has the overall responsibility for the shipboard system?

2. Are there trained personnel to calibrate, set-up and operate their particular systems?



Questions/Concerns (cont.)

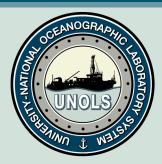
- 3. Who is responsible for the documentation on the systems?
- 4. How configurable are/will the systems be?



Questions/Concerns (cont.)

5. Calibrations:
How often?
Who is in charge?
Who determines if the calibration is valid?
How will the ship time for the

calibration(s) but funded? (12+hrs)



How to proceed?