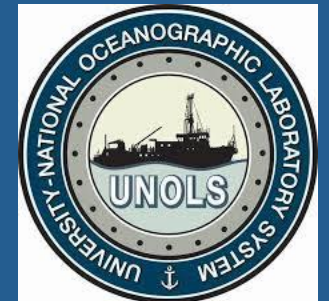

Pooled ADCP Spares

UNOLS RVTEC Meeting 10/25/2023

Lee Ellett

Scripps Institution of Oceanography



Shipboard Technical Support (STS) at SIO supports the following Teledyne RDI ADCP systems

R/V Roger Revelle

- OS 75kHz
- OS 150kHz

R/V Sally Ride

- OS 38kHz
- OS 150kHz
- Workhorse
- Mariner 300kHz

R/V R.G. Sproul

- OS 150kHz

USCGC Healy

- OS 75kHz
- OS 150kHz

Background Information



- In 2019 STS was asked by UHDAS to store a fleet spare OS 38kHz transferred from USAP, later transferred to UAF
- Replacement ADCP systems were recommended for several vessels providing an opportunity to have existing or failed system refurbished as spares
- Collaborate with UHDAS to identify fleet ADCP needs/failures
- ADCP failures are unpredictable and turnaround times and availability are typically longer than most shipyard periods
- Cable replacements are often necessary when an ADCP fails on Ocean Surveyor systems

Inventory Operational Transducers



At SIO Repaired/Operational

- 1 600kHz Workhorse
- 1 300kHz Workhorse Mariner
- 1 150kHz Ocean Surveyor
- 1 75kHz Ocean Surveyor

In Need of Service

- 1 150kHz Ocean Surveyor
- 1 75kHz Ocean Surveyor

At WHOI Repaired/Operational

- 1 75kHz Ocean Surveyor



Inventory of Deck Units and Cables



Deck Units

2 150kHz Ocean Surveyor

1 75kHz Ocean Surveyor

Cables

2 Ocean Surveyor, 50m



Considerations and Questions



There are many physical installation and transducer variations that may be undocumented

- Flange diameter (OS75)
- Top Hat Type (Height, Vertical Mount)
- Connector Types (Straight/Right Angle)

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