2021 Sonar Installations R/V Sally Ride

Topics

1. EM124 Architecture
2. SBP29 Physical Installation
3. SIS 5 Challenges
EM124 Architecture

- EM124 now includes a Processing Unit
- The RX and TX Electronics are a smaller form factor
SBP29 Integration with EM124
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• SBP29 installation was in close proximity to EM124 RX array.
• This was planned and carefully executed successfully.
ABS review of watertight boundaries
• Shipyard specification did not explicitly state that the casing would be machined before installation
• The in-place machining caused concern but was completed successfully
SBP29 Physical Installation Challenges

• Due to limited space in the Transceiver Room we opted for underwater Cable Connection Units (CCU)
• During installation, a manufacturing error required each CCU to be individually tested
SIS 5 Challenges

- Gridding instability with some compute environments
- Inability to get SIS 5 to accept EM Binary format from IXEA Hydrins MRU systems
- Inability to get SIS 5 to accept serial data from a Valeport SV sensor reliably on all systems
- SIS 5.7 has greatly improved stability and functionality but some issues continue without forensic removal of registry keys
SBP29 data