

901612 – MiniROV Enhancements

Precision Control/Data Sharing

- Issue:
 - Limited external interface to vehicle control system and vehicle data
- Solution:
 - Incorporate advanced protocol for flexible sharing of real time data
 - Benefits
 - Various control algorithm development
 - » Jelly-tracking for Deep PIV
 - » Wall-tracking for rockfish habitat surveys
 - » Additional precision control survey modes
 - Possible test platform for new AUV control software (Ocean Imaging)

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Data Logging

- Issue:
 - MiniROV Dive data is not part of MBARI's core database, can't currently search for archived data.
- Solution:
 - Come up with a universal way to log dive data that is compatible with existing MBARI data storage/mining applications
 - Benefits:
 - Automatic transfer post-cruise to permanent storage
 - Data files will be easily retrievable by dive number from VARS or other applications

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Video Annotation and Archiving

- Issue:
 - Due to newer HD format and size constraints, video is recorded to disk, not tape, so no timecode available for sync of metadata.
 - VARS not compatible or portable with “fly away” system
- Solution:
 - Create Mini VARS capability for fly-away system
 - Create means to export VARS annotations from fly-away system to VARS database
 - Develop method for indexing into saved video using time code
 - Sync video to other metadata post-cruise