

2008 Abstract Form – Internal-Only Projects (no external funding). Deadline for abstract submission is 8:00 a.m. on July 10th.

Project Title: 823 SSDS Hardening

Project Manager/PI: Kevin Gomes

Lead Scientist:

Lead Engineer: Mike McCann

Project Description:

MBARI has developed technology to help fill the gap of metadata between operational instruments and finished data products. Originally a component of the MOOS project, the Shore Side Data System has become an integral component of several MBARI data streams. The SSDS successfully manages all the metadata surrounding instruments, their deployments, and the data they produce. This type of system is unique within the oceanographic community and has served MBARI's operational data management needs well by improving the efficiency with which data are processed. Before SSDS, mooring data processing was done by multiple groups and individuals resulting in often incompatible data sets. Now, one programmer can do the work of what used to take 3 or 4 people. SSDS is currently responsible for managing the metadata, data, and post-processed data sets for the following systems: M0 Mooring (CIMT), M1 Mooring, M2 Mooring, MSE Mooring (all four nodes), AUVCTD, and – external to MBARI – Bruce Howe's Aloha Mooring CTD and fluorometer.

In addition to its proven usefulness at MBARI, the SSDS is deemed desirable by the ORION OOI program and is, in fact, part of the OOI CyberInfrastructure proposal. If MBARI wins the CGSN proposal the SSDS will provide a system that the CGSN team could develop against the help them get started on the highest risk elements of the CGSN-CI interface.

In order to continue to support our internal data needs at MBARI and to provide the most value to the external community, we are proposing more work on SSDS to harden its capabilities and add functionality. Project resources are being requested in 2008 for tasks that include:

- improving metadata editing capabilities and client applications
- redeploying database integrity checking
- providing more useful and concise query and operational views of data producing systems
- maintaining our existing and growing archive of data and metadata
- distributing SSDS as an open source project