

2004 Proposal Form – Internal-only Projects

Submission Deadlines: Phase I: 8:00 a.m. on August 4th, Phase II: TBD

Project Number: 200109

Project START: Jan 1, 2004 **Project Duration (in years):** 1

Project Manager/PI: Brian Schlining

**Project Title: Core Mooring Data
- MDUC**

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1) Abstract (new and continuing projects)

This MDUC project provides for the institutional support of “core” data from MBARI moorings. A subset of mooring data (surface CTD, T-string, meteorological, GPS, ADCP and pCO₂ data) have been designated as core data streams, which means that support for the collection, processing and archiving of the data is provided on an institutional basis rather than through individual projects or divisional budgets.

The primary elements of this project are:

- Maintenance and minor development of software used for processing and archiving of mooring data.
- Data processing and validation by Fred Bahr of the Naval Postgraduate School.
- Data archiving and dissemination through the mooring data-store.
- Data validation through a Science data “champion”.

For 2004, this project will continue to provide support for the core mooring data. In addition, we propose to integrate historical core mooring data into the Shore-side Data System (SSDS).

2) Proposal

a) The problem addressed (for new projects only)

- N/A

b) Approach to the problem (new and continuing projects)

- Engineering/technology development
N/A
- Field programs
N/A
- Data reduction and analysis
For 2004, Fred Bahr at NPS will provide weekly updates to the quality controlled data. The weekly updates will be provided for the convenience of MBARI scientists. However this data should not be considered ‘final’ data, as it will have only a 1st order of quality control. Fred will provide more strongly quality controlled data after the mooring is retrieved and the stored data can be downloaded from the instrument.
- Proposed duration of project and approximate plan of action
This is an ongoing project.

c) Specific deliverables (new and continuing projects)

- Products from research and development (instruments, tools, documentation, publications, presentations, etc.)
N/A

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- **How success will be measured**

Quality controlled data products will be delivered to MBARI within 1 month of a mooring recovery. The data champion will report to the Core Mooring team if there are problems with the quality controlled data products. Weekly updates of moderately quality controlled data will be created from the incoming telemetry from the moorings.

In addition, the historical core mooring data will be integrated into the Shore-side Data System (SSDS). This would allow users to search for and retrieve core mooring data through SSDS applications.

d) Project team (new and continuing projects)

Brian Schlining (Project Manager)

Dave Caress (Lead Scientist)

Francisco Chavez (Data Champion)

Fred Bahr – Provides quality controlled data products and daily plots

Mike McCann – Provides hourly and weekly derived products from the quality controlled data

e) Project Lab Space (new and continuing projects)

N/A

3) Budget Justification (new and continuing projects)

Fred Bahr's subcontract is \$12500. 30 days of IAG time is for support of the data access interface, integration of historical data into SSDS, creation of derived products, and support of mooring quality control plots. 5 days of Francisco Chavez's time is requested for data validation.

Note: No time has been provided for integration with the Automated Data Quality Control project. The Automated Data Quality Control project for 2004 is a feasibility study only.

4) Milestones (new and continuing projects)

	Milestone 1	Milestone 2	Milestone 3	Milestone 4	Milestone 5	Total Resources ¹ for each resource category for all milestones listed here
Milestone date	July 2002	July 2002	Within 1 month of a mooring recovery	TBD	TBD	

¹ This number should be same as the number you entered on the resource requests for this particular resource

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Milestone description	Review of data quality by MDUC	Recommendations and budgeting for 2003	Quality control of core mooring data streams and submission to data archive	On-going support	Integration of historical data into SSDS	
EE						
SE						
ME						
IAG		3	5	10	12	30
Machine Shop						