Project Number: 200109

Project Start: Jan 1, 2001 **Project Duration (in years): ongoing**

Please indicate what type of project is being proposed (mark all that apply).

☐	☐	☐	☐	☐
Feasibility/Scoping	**Development**	**Research**	**Infrastructure**	**Education**

Project Manager/PI: Brian Schlining

Project Title: Core Mooring Data - MDUC

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 2005, this project will continue to provide support for the core mooring data. In addition, we propose to investigate integration of historical core mooring data into the Shore-side Data System (SSDS).

2) PROPOSAL

a) The problem addressed (new projects only)

Statement of the problem

[Enter text here]

Why it is important

[Enter text here]

Present state of art/understanding

[Enter text here]

How it relates/contributes to MBARI's mission and strategic plan

[Enter text here]

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

If the proposed project includes multiple individual projects, please list each of these projects as a subheading in the proposal. (For example, Benthic Biology and Ecology subheadings include Biology of deep-sea CO_2 disposal and Cold seep biology – see example on PCO web.) For each subheading, please address the following:

Status of project

[Enter text here]

Results to date

MBARI currently has archived data from M1, M2, M3, and M4 dating from 1989 through the present. This data has been quality controlled, with bad and suspect records flagged. This flagging preserves all original data but provides and indicator of data quality. The data is stored in netcdf files on a shared drive. Although the netcdf format is heavily used in science and oceanography, we realize that the vast majority of people wishing to access this data will not be familiar with the netcdf format. In order to accommodate these users, the quality controlled data can be obtained at http://dods.mbari.org:8085/mbariMoos/ncarchive.jsp. Derived data products can be obtained at http://dods.mbari.org/lasOASIS/.

Publications (from the last 5 years)

[Enter text here]

Plans for 2005

Engineering/technology development

During 2004, we received several requests to make the core mooring data available through SSDS. In 2005, we anticipate that SSDS will be ready to accommodate the core mooring data. While we anticipate that the SSDS integration will be simple, we expect that it will require several days of working with SSDS developers to accomplish this task.

Field programs

[Enter text here]

Data reduction and analysis

[Enter text here]

Significant changes from previous project proposal (continuing projects only)

[Enter text here]

c) Specific deliverables (new and continuing projects)

The deliverables will continue to be netcdf files containing quality-controlled data for the core mooring data streams.

d) Project team (new and continuing projects)

Brian Schlining, Fred Bahr (NPS), Mike McCann, Dave Caress, Francisco Chavez$1300

e) Project lab space (new and continuing projects)

[Enter text here]

3) BUDGET JUSTIFICATION (new and continuing projects)

$13,000 is for the subcontract to Fred Bahr at the Naval Post-graduate School for quality-control of the surface CTD, T-string, meteorological, GPS, and ADCP data collected by MBARI's moorings. 20 days of Support Engineering was requested for on-going maintenance and support, 5 days of Software Engineer time for assistance with SSDS integration, 5 days was requested fro Francisco Chavez for work as Data Champion.

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	April 2005	November 2005				
Milestone Description	QC of M2 data after recovery	QC of M1 data after recovery				
EE						
SE						
ME						
Machine Shop						

[1] This number should be the same number you entered on the resource requests for this particular resource.