

Abstract *(Should be no longer than one page)*

Project Title:	Benthic Boxcore
Lead Scientist:	Jim Barry
Lead Engineer:	Mark Brown
Project Manager:	Mark Brown

The Boxcore project is moving ahead as scheduled. Our first milestone was the purchase of an “Ekman” style Boxcore for evaluation. The second milestone was to test and evaluate the mechanism to develop design parameters from which to proceed. The guidelines from the evaluation provided pertinent information regarding desired deployment and operation features that the mechanism should have. The information garnered from the testing phase established validation for the present course of the project. Currently a prototype Boxcore is being developed that will combine the hydraulics of the vehicle Ventana and employ the use of the manipulators as well.

Observed difficulties with the purchased Boxcore were as follows:

- Difficulty handling the mechanism.
- Difficulty activating the mechanism.
- Difficulty retrieving the sample.

Solutions currently being evaluated with the prototype:

- Mechanism will be hard mounted to the vehicle and guided.
- The “door” of the mechanism will be hydraulically actuated.
- The Boxcore will contain a transparent polycarbonate liner sleeve integral to the system for core retrieval.

There are no significant deviations from the original proposed plan the project duration remains 18 months. The impact on resources for the second year includes pilot and technician time as well as the manufacturing time required for fabrication of the final system. There are no looming problems anticipated at the present time.

Abstract Resource Requests

Project Title:	Benthic Boxcore
Lead Scientist:	Jim Barry
Lead Engineer:	Mark Brown
Project Manager:	Mark Brown

Please check off which resources you expect to need for this project.

IAG

☐ Software Applications	☐ < 10 days	☐ > 10 days
☐ Software Engineer	☐ < 10 days	☐ > 10 days

ENGINEERING

☐ Electrical Engineer	☐ < 10 days	☐ > 10 days
X Mechanical Engineer	X < 10 days	☐ > 10 days
☐ Software Engineer	☐ < 10 days	☐ > 10 days
☐ Research Engineer	☐ < 10 days	☐ > 10 days
☐ Other: _____	☐ < 10 days	☐ > 10 days

ITD

☐ Video Lab Support	☐ < 10 days	☐ > 10 days
☐ Web support	☐ < 10 days	☐ > 10 days
☐ Documentation	☐ < 10 days	☐ > 10 days
☐ CTD Data Tech	☐ < 10 days	☐ > 10 days
☐ Tech Transfer	☐ < 10 days	☐ > 10 days
☐ Sample Archiving	☐ < 10 days	☐ > 10 days

DMO

☐ Director	☐ < 10 days	☐ > 10 days
☐ Deputy Director	☐ < 10 days	☐ > 10 days
X Ventana Pilot	☐ < 10 days	X > 10 days
☐ Tiburon Pilot	☐ < 10 days	☐ > 10 days
☐ Marine Ops Tech	☐ < 10 days	☐ > 10 days
☐ Ops/CTD Tech	☐ < 10 days	☐ > 10 days
X Model Shop	X < 10 days	☐ > 10 days
☐ Diver	☐ < 10 days	☐ > 10 days

TSD

☐ EE Tech	☐ < 10 days	☐ > 10 days
X ME Tech	X < 10 days	☐ > 10 days
X Machine Shop	☐ < 10 days	X > 10 days
☐ Ocean Observatory Support	☐ < 10 days	☐ > 10 days
☐ Computer Support	☐ < 10 days	☐ > 10 days



