

APPENDIX A.
PACIFIC COASTAL & MARINE SCIENCE CENTER
SAMPLE REQUEST FORM

Mail to the Pacific Coastal & Marine Science Center Core Curator, U.S. Geological Survey,
345 Middlefield Road, MS-999, Menlo Park, CA, 94025;
Desk: 1-650-329-5493, FAX: 1-650-329-5411; email: mtorresan@usgs.gov

Date of Request: April 19, 2013

Investigator's Name: Caitlin Keating-Bitonti and Dr. Jonathan Payne

Investigator's Title/Affiliation: Ph.D. student; Associate Professor Stanford University Geological and Environmental Sciences

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Funding agency or institution: NSF project funding; Stanford University

National Program: (if applicable)

Collaborators: Names, affiliation, and roles

Project summary: A brief (<200 words) summary written to be understood by a non-specialist stating why these samples are necessary to meet your project goals. State the issues to be addressed, the objectives of the project, significance to scientific questions, and facilities needed, all in terms that do not require technical translation.

Study within species size variation of benthic foraminifera along a depth transect in a modern oxygen minimum zone (OMZ), Santa Monica Basin. The research project is interested in understanding how the size of organisms respond in oxygen stressed environments. We currently have samples for the deepest part of the basin in the heart of the OMZ (~950m) and are requesting samples from shallower water depths. We are requesting samples from water depths of ~20m, 250m, 450m, and 750m to compliment our deep basin samples in order to observe the size response of live/recently dead species along a depth/oxygen gradient.

Potential impacts, major products, and timelines: Describe expected outcomes. What products will you produce to contribute to the desired outcomes? When do you expect to publish data based on these samples?

We expect to observe a decrease in the volume to surface area ratio of benthic foraminiferal tests within a species with decreasing dissolved oxygen concentrations. This project will be a portion of Keating-Bitonti's PhD research and will expect the completion and publication of this project prior to summer 2014.

List of Requested Material from the Repository: Page ____1__ of ____1__

Name: Caitlin Keating-Bitonti and Dr. Jonathan Payne

Field Activity ID	Core ID	Section	Half (W/A) ¹	Interval		Volume (cm ³)	Comments
				Top	Bottom		
Auriga A103SC	641-B1	Core top	W	Core top: 0mm	Core top: 1.3mm		
Auriga A103SC	644-B1	Core top	W	Core top: 0mm	Core top: 1.3mm		

¹Note: W/A = working or archive half.