

**HAWAI'I UNDERSEA RESEARCH LABORATORY**

**QUICK LOOK REPORT DIVE: PV- 517**

**MISSION STATUS**

**Location:** Bank 10

**Latitude:** N 28°50.725

**Longitude:** W 178°54.246

**Mission Date:** Sept.29, 2003

**Duration:** 0815-1651 (8hrs 26m)

**Maximum Depth:** 549m

**Project Title:** Reproductive biology and population genetics of Hawaiian precious corals

**Principal Investigator:** Amy Baco-Taylor

**Address:** WHOI Biology Dept.  
MS#33, 214 Redfield  
Woods Hole, MA 02543

**Phone:** (508) 289-2331

**Observer 1:** A. Baco-Taylor

**Observer 2:** Stephen Cairns

**Address:** WHOI Biology Dept.  
MS#33, 214 Redfield  
Woods Hole, MA 02543

**Address:**

**Pilot 1:** Terry Kerby

**Pilot 2:**

**Scientific Data Acquired:** Prepare an abstract outlining your objectives, techniques, findings, etc.

Objectives:

1. Locate precious corals
2. Sample for reproductive studies + genetics
3. Sample scleractinians or other dominant fauna for Smithsonian

**Observations, findings, etc:**

We covered a lot of ground. Almost all clean-scoured hard substrate habitat, including walls and steep 45°-90° slope. Little to no corals despite prime habitat. A few lone *Paracorallium tortuosum* colonies and 1 patch of *P. tortuosum*. Live *Eguchipsammia* at shallower depth, some stylasterids (later determined to be an undescribed species of the genus *Distichopora*), both at ~ 250-350m. This is only the second report of a stylasterid from the HI. Much *Eguchipsammia* rubble during entire dive. Saw 1 broken *Lepidisis olapa*. Stony corals *Javania lamprotichum*, *Flabellum pavoninum*, and *Desmophyllum dianthus* were noted in small abundance.

**Species list:**

Please mark whether S-single; F-Few (2-10); M-Many (11-100); A-Abundant (&gt;100)

(e.g., *Symphysanodon maunaloae*-M)

- add rows as needed

Paracorallium tortuosom – patch -M	Octopus sp. 2	Antigonia sp- S
Stylasterids – patch - A	Cirripathes spiralis - M	Plectranthias Kellogi- S
Eguchipsammia - A	Lepidisis olopa -1	
Urchin – M Stereocidaris hawaiiensis ? 2 Nycropyga toberculata - F	Grammicolepis brachiusculus-	
Basket stars Gorgonocephalids whilte 2	Hexanchus griseus- S	
Bolocera sp. 3	Bodianus cylindriatus- S	
Ophiuroids Sphaeriodiscus ammophilis ? 2 Holothuria cinerescers -F	Squalus mitsukurii- S	
Sympagurus dofleini	Hollardia goslinei- S	
Pagurids -F	Chromis struhsakeri- S	
Galatheids -F	Etelis carbunculus- F	
White sponges	Caenopedina palladium- S	
Regadrella sp.- S	Symphysanodon maunaloae- F	

**MISSION EVALUATION:****Limitations, failures, or operational problems noted:**

No corals were found.

**Recommendations for corrective action or improvement:**

None at this time.

**In your opinion, did the mission essentially achieve its purpose? Compare actual work accomplished with the work that was expected to be accomplished.**

We explored a large area, but couldn't find the corals to collect for the project.

**List specimens or samples collected on the mission.**

Paracorallium tortuosum -3

Eguchipsammia – 2

Stylasterids -3

Anemone – 1

Cirripathes spiralis - 1

## DATA RELEASE

Data may be retained by the project leader for up to 2 years after the mission date with the following exception. NOAA may request to use photos for publication or publicity purposes at any time.

Fill in the appropriate statement below and sign this form.

I hereby release the data archived by HURL for public consumption following mission

\_ Reproductive biology and population genetics of Hawaiian precious corals  
(project title)

held on\_\_ Sept.29, 2003 \_\_\_\_\_(date) in the following way:

- a. CTD data by\_\_ 9/ 29/2005 \_\_\_\_\_(date)
- b. voice transcripts, video, and still camera film by\_\_ 9/29/2005 \_\_\_\_\_(date)
- c. other\_\_ 9/ 29/2005 \_\_\_\_\_(date)
- d. I will give my written consent to individuals wishing to use these data prior to the above dates depending on the nature of the request(s).

\_\_\_\_\_  
Principal Investigator