

**HAWAI'I UNDERSEA RESEARCH LABORATORY**

**QUICK LOOK REPORT**

**DIVE: 584**

**MISSION STATUS**

**Location: Makapuu Coral Bed**

**Latitude: 21 ° 19.12' N**

**Longitude: 157° 32.77W**

**Mission Date: October 4, 2004**

**Duration: 8 hours 16 mins**

**Maximum Depth: 420 m**

**Project Title: Deep-sea precious corals as habitat for macroinvertebrates in Hawaii**

**Principal Investigator: Amy Baco-Taylor**

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

**Observer 1: Amy Baco-Taylor  
Address:**

**Observer 2: Tom Fitz  
Address: BBC**

**Pilot 1: Terry Kerby**

**Pilot 2:**

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

Objectives:

To observe and collect coral-associated invertebrates. To compare invertebrate assemblages between coral species and to compare to background fauna.

Observations, findings, etc:

Shortly after arriving on a sandy bottom north of the bed, we came across a great white shark. We continued south into the bed and corals became more abundant. We observed many young *Corallium* trees and a few older ones. *C. secundum* was the most abundant species. Crinoids were observed throughout the dive. We spent a lot of time on this diving film in bioluminescence of *Gerardia* sp. And *Lepidisis olapa* with the BBC. Currents were much weaker during this dive than in the previous 2 dives. Most corals were occupied by crinoids rather than galatheids or ophiuroids. Drift algae of a variety of species was present throughout the dive.

Species list:

**Corallium secundum**  
**Corallium lauense**  
**Gerardia sp.**  
**Lepidisis olapa**  
**Parapagurus sp.**  
**Paramuricids**  
**Primmoids**  
**Antipatharians**  
**Very abundant crinoids (Antedon sp.)**  
**Chirostylid galathaeids (Uroptychus)**  
**Charcarinus charcarius**  
**Octopods**  
**Polymixia**  
**Astroschema**  
**Sphaeriodiscus ammophilus**  
**Other assorted corals and sponges**

**MISSION EVALUATION:**

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

None

**Recommendations for corrective action or improvement:**

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

yes

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

Corallium secundum – 3  
Gerardia sp – 2  
Lepidisis olapa – 6  
Galathaeids – 3  
Crinoids (Antedon sp.) – 3+  
Paramuricids – 1  
Antipatharians - 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 (project title)

held on \_\_\_\_\_(date) in the following way:

- a. CTD data by \_\_\_\_\_(date)
- b. video and images by \_\_\_\_\_(date)
- c. other \_\_\_\_\_(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