

**HAWAI'I UNDERSEA RESEARCH LABORATORY**

**QUICK LOOK REPORT  
DIVE: 587**

**MISSION STATUS**

**Location:** Cross Seamount Coral Bed

**Latitude:** 18 ° 43.95' N

**Longitude:** 158° 15.74'W

**Mission Date:** October 8, 2004

**Duration:** 8 hours 00 mins

**Maximum Depth:** 445 m

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

**Principal Investigator:** Amy Baco-Taylor

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

**Observer 2:**  
**Address:**

**Pilot 1:** Terry Kerby

**Pilot 2:** Steve Price

**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:

We spent the dive at the pinnacle north of the coral garden pinnacle and on the coral garden pinnacle. Large coral trees were abundant throughout the dive. The dominant coral species on the north pinnacle were two species of Paragorgiid. On the main coral pinnacle, Gerardia sp. Was also very abundant. The manganese crust was covered with high densities of a small white barnacle, probably a few hundred per square meter. Corallium lauuense was present but not abundant. Corallium secundum was not observed. We observed a few cook sharks and a few Lophiodes meacanthus. Many other species of corals were also present. Primnoids and Bamboos were fairly sparse except in a few patches. We did not observe any crinoids on this dive. There were a few galathaeids in some of the coral trees. Asteroschema, the unbranched basket star, was common in the Paragorgiid branches as were anemones. We obtained good video of a seastar with its stomach out eating a paramuriceid.

## Species list:

**Corallium lauuense**  
**Gerardia sp.**  
**Paramuricids**  
**Primnoids**  
**Antipatharians**  
**Chirostylid galathaeids**  
**Polymixia**  
**Astroschema**  
**Yellow thin- branched bamboo**  
**3-4 species of Paragorgiids**  
**Cook sharks**  
**Lophiodes meacanthus**  
**Synaphobranchids**  
**Beryx**  
**Decorator Crabs**  
**Seastars**  
**Anemones**  
**Iridigorgia sp.**  
**Scleractinian Cup corals**  
**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 lauense – 3  
Gerardia sp – 5  
Gerardia holdfast  
Bamboo - 1  
Galathaeids – 2  
Astroschema – 4  
Cup corals – 3  
Iridigorgia – 1  
Paragorgiid spp. - 4  
Paramuricids – 1  
Other zooanthids - 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