

**HAWAI'I UNDERSEA RESEARCH LABORATORY**

**QUICK LOOK REPORT  
DIVE: 591**

**MISSION STATUS**

**Location:** Cross Seamount Coral Bed

**Latitude:** 18 ° 42.589' N

**Longitude:** 158° 15.664'W

**Mission Date:** October 12, 2004

**Duration:** 7 hours 55 mins

**Maximum Depth:** 384 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:** Tom Shirley  
**Address:** UAF

**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:

We spent the dive at pinnacles and ridges south of Jurassic Park exploring for corals and their inhabitants. We found *Gerardia* sp. and the small scraggly yellow bamboo on most pinnacles and ridges. Primnoids were also present. Antipatharians were present on some features. Barnacles were not present on the rocks like on the coral pinnacles. We observed a few crinoids that were a different species than on Makapuu. There were a few galathaeids in some of the coral trees. Sea pens were abundant in the lower-relief and sedimented areas. We observed many fishing lines tangled or laying across the bottom.

Species list:

**Gerardia sp.**  
**Paramuriceids**  
**Primnoids**  
**Antipatharians**  
**Chirostylid galathaeids - 2 species**  
**Polymixia**  
**Asteroschema**  
**Yellow thin- branched bamboo**  
**Other Bamboos**  
**Cook sharks**  
**Synaphobranchids**  
**Beryx**  
**School of juvenile Beryx (approximately 200)**  
**Polymixia**  
**Homolid crabs**  
**Seastars**  
**Anemones**  
**Scleractinian cup corals**  
**Palaeomonid shrimps**  
**Polynoid scale worms**  
**Wentletrap (Epitonium) snails**  
**Other assorted corals and sponges**

**MISSION EVALUATION:**

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

We could not use the titan manipulator for the entire dive.

**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.**

Bamboo Corals- 7  
Astroschema – 1  
Paramuriceids – 3  
Primnoids – 2  
Antipatharian – 2  
Sea Pens – 2  
Siphonogorgia – 1  
Galathaeids – 5  
Snails - 2  
Various coral-associated critters

## 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