HAWAI'I UNDERSEA RESEARCH LABORATORY

QUICK LOOK REPORT
DIVE: 589

MISSION STATUS

Location: Cross Seamount Coral Bed

Latitude: 18 ° 43.923' N **Longitude:** 158° 15.690'W

Mission Date: October 10, 2004 **Duration: 7** hours 41 mins

Maximum Depth: 443 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 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:

We spent the dive at the pinnacle north of the coral garden pinnacle and on the coral garden pinnacle, then transited south to Jurassic Park. 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 also observed. We observed several 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 galathaeids in some of the coral trees. Asteroschema, the unbranched basket star, was common in the Paragorgiid branches as were anemones. The peak of Jurassic Park was covered with zooanthids. Corals and Cook sharks were filmed with the internal handheld camera during this dive.

Species list:

Corallium lauuense
Corallium secundum
Gerardia sp.
Paramuriceids
Primnoids
Antipatharians
Chirostylid galathaeids
Polymixia
Asteroschema
Yellow thin- branched bamboo
3-4 species of Paragorgiids
Cook sharks
Lophiodes meacanthus
Synaphobranchids
Beryx
Decorator Crabs
Seastars
Anemones
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 lauuense – 4
Corallium secundum - 2
Gerardia sp – 2
Gerardia sp. 2 - 1
Bamboo - 2
Galathaeids – 2
Paragorgiid spp. - 2
Paramuriceids – 1
Acanthogorgiids – 1
Other Yellow gorgonians - 2

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