HAWAI'I UNDERSEA RESEARCH LABORATORY

QUICK LOOK REPORT
DIVE: 593

MISSION STATUS

Location: Keahole Pt Coral Bed

Latitude: 19 ° 48.203' N **Longitude:** 156° 08.048'W

Mission Date: October 15, 2004 **Duration: 8** hours 0 mins

Maximum Depth: 765 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: Morgan Kilgour
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:

The current pushed us into deeper water on the descent, so we did some exploring to a depth of about 765 m. The area we landed in a was a steep slope with many corals. Primarily Primnoids (Narella or Candidella-like). Two species of Chrysogorgids were also present as well as Metallogorgia and an occasional bamboo or dendrophyllid. The associated invertebrates appeared to be different from our previous dive sites. As we moved up slope, we noted on the tape where these deeper species waned off and the shallower species began to occur. When we neared 400m, we came to some carbonate walls which were rimmed with Gerardia, Primnoids, Bamboos, and Corallium lauuense. We did some video surveys around 400m, but saw few corals except on the rims. Most of the Corallium lauuense observed were very small. No C. secundum were observed. There was a lot of sedimented areas at the precious coral depths. There were many large sea pens in the sediments. Towards the end of the dive, the current became very strong and pushed us to the south and down slope.

Species list:

Gerardia sp.
Corallium lauuense
Yellow Chrysogorgid
Bushy Chrysogorgid
Metallogorgia
Lyrate Narella or Candidella
Branched from center Narella or Candidella
Narella
Paramuriceids
Other Primnoids
Antipatharians
Schizopathes
Dendrophyllids
Large sea pens
Galathaeoids
Ophiuroids
Cidarid Urchins
Other Urchins
Asteroschema
Other Bamboos
Synaphobranchids
Decorator Crabs
Seastars
Anemones
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- 3
Asteroschema – 1
Paramuriceids – 3
Narella or Candidella like Primnoids – 4
Narella – 1
Other Primnoids - 2
Antipatharian – 3
Metallogorgia – 1
Chrysogorgids – 2
Gerardia – 2
Zoanthid – 1
Dendrophyllid – 1
Hydroid - 1
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