HAWAI'I UNDERSEA RESEARCH LABORATORY

QUICK LOOK REPORT
DIVE: 595

MISSION STATUS

Location: Keahole Pt Coral Bed

Latitude: 19 ° 47.807' N **Longitude:** 156° 07.786'W

Mission Date: October 17, 2004 **Duration: 8** hours 11 mins

Maximum Depth: 863 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: Max Cremer **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 did some exploring to a depth of about 860 m.. The area we landed in a was a steep slope with many thick sediment and basalt outcrops. As we moved up the steep slope, corals were sparse. We passed through large areas of pillow basalt. There were many of a sinlge species of primnoid, probably Calyptrophora. We observed a single Corallium. Two species of Chrysogorgids were also present as well as Metallogorgia. The associated invertebrates appeared to be different from our shallower 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. We also observed several large rays during the dive.

Species list:

Gerardia sp.
Corallium lauuense
Yellow Chrysogorgid
Bushy Chrysogorgid
Metallogorgia
Calyptrophora
Corallium sp. (ducale?)
Narella
Paramuriceids
Other Primnoids
Antipatharians
Large sea pens
Galathaeoids
Ophiuroids
Cidarid Urchins
Other Urchins
Asteroschema
Unbranched Bamboo
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- 1
Asteroschema – 2
Paramuriceids – 1
Narella – 1
Calyptrophora - 1
Metallogorgia – 1
Chrysogorgids – 2
Gerardia – 1
Zoanthid – 1
Corallium sp. – 1
Iridigorgia bella – 1
Other Corals – 2
Sea Pen – 1
Acanthogorgiid – 1
Kereoides – 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