

HAWAI'I UNDERSEA RESEARCH LABORATORY

QUICK LOOK REPORT DIVE: PV-542

MISSION STATUS

Location: East of Necker

Latitude: 23° 21.0533 N

Longitude: 162° 38.833 W

Mission Date: 31 October 2003

Duration: 4 hours, 50 minutes

Maximum Depth: 1815 m

Project Title: Seamount Surveys of Deep-Water Coral Distributions as Related to Geological Setting in the Northwestern Hawaiian Islands

Principal Investigator: Amy Baco-Taylor

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Observer 1: Amy Baco-Taylor

Observer 2: John R. Smith

Address: See above.

Address: HURL

Pilot 1: Chuck Holloway

Pilot 2:

Scientific Data Acquired: Prepare an abstract outlining your objectives, techniques, findings, etc.

Objectives:

1. To perform observational transects of invertebrate fauna along a seamount located east of Necker.
2. Collect invertebrate samples for identification and for voucher specimens.
3. Collect rock samples to characterize geologic setting.

Observations, findings, etc:

The entire dive was spent on hard bottom with occasional sand patches. White primnoid sticks of a new genus were the most common invertebrate. Corallium and sponges were also observed. The Corallium were shallower than about 1400 m. Metallogorgia were also abundant. A number of large crinoids that were reddish brown with 8 arms were also observed. Fauna were not terribly abundant most of the dive. The dominant corals were primnoids, only Lepidisis bamboos were observed. Much of the terrain was a steep slope.

Species list:

Please mark whether S-single; F-Few (2-10); M-Many (11-100); A-Abundant (>100)

Long-Stalk Umbellula – F	10-arm seastar – S
Corallium – M	Sponges – M
Metallogorgia –A	Paragorgia – F
White Primnoid Stick – A	Paramuricid – F
8-arm red crinoid – M	Lepidisis – F
Purple octocoral – F	Other Crinoids – M
Cirroteuthid octopus – S	Light Purple urchin - F

MISSION EVALUATION:

Limitations, failures, or operational problems noted:

None

Recommendations for corrective action or improvement:

n/a

In your opinion, did the mission essentially achieve its purpose? Compare actual work accomplished with the work that was expected to be accomplished.

Yes, we completed 2 transects, one at 1800m and one at 1200m. We also completed a vertical transect from 1800 to 1200m. Would have liked to move shallower but out of time...

List specimens or samples collected on the mission.

- 1– Corallium
- 2 – purple gorgonians
- 3 – primnoids
- 1 – metallogorgia
- 3 – sponges
- 1 - umbellula
- 4 - rocks

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
**Seamount Surveys of Deep-Water Coral Distributions as Related to Geological Setting in the Northwestern
Hawaiian Islands**

(project title)

held on 31 October 2003 in the following way:

- a. CTD data by 31 October 2005 (date)
- b. voice transcripts, video, and still camera film by 31 October 2005 (date)
- c. other 31 October 2005 (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