

HAWAI'I UNDERSEA RESEARCH LABORATORY

QUICK LOOK REPORT DIVE: PV-544

MISSION STATUS

Location: East of Necker

Latitude: 23° 19.4591 N

Longitude: 163° 41.2939W

Mission Date: 2 November 2003

Duration: 5 hours, 37 minutes on bottom

Maximum Depth: 1800 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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Phone: (508) 289-2331

Observer 1: Amy Baco-Taylor

Observer 2: John R. Smith

Address: See above.

Address: HURL

Pilot 1: Terry Kerby

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:

We landed on a sloped bottom of basalt rubble with some sand. We completed a transect at 1800 m depth and moved upslope to the peak of a pinnacle at about 1082m. We then returned to 1150 m for our last transect. Corals were sparse until we moved up the vertical wall of the pinnacle. Primnoids were very abundant on the wall and on the top. On our final transect we observed 1 Grimpiteuthis and 3 Cirriteuthis octopuses. Also a Chimaerid. A large portion of the wall was columnar basalt. We also observed some pillow basalts.

Species list:

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

Grimpoteuthis!! – S
Cirroteuthis – F
Lyrate Primnoids – A
Stalked sponges – A
Flower/Donut sponges – M
Metallogorgia – M
Chimaerid – S
Other Metallogorgia – F
New Genus Primnoid – F
Other Primnoids – M
Corallium – F
Paragorgia – F
Bamboos – M
Satellite sponges – F
Vase sponges – F
Crinoids – F
Holothurians – F
8-arm seastar – 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.

We completed an 1800 m depth transect and a vertical transect to 1100m. We began a 1200 m depth transect but did not quite complete it because we ran out of time.

List specimens or samples collected on the mission.

2- Hydroids
7 – rocks
2 – sponges
2 – bamboos
2 – metallogorgia-like
3 – primnoids
1 – paragorgid
1 – Anthothela
1 - Anemone

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 2 November 2003 in the following way:

- a. CTD data by 2 November 2005 (date)
- b. voice transcripts, video, and still camera film by 2 November 2005 (date)
- c. other 2 November (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