

HAWAI'I UNDERSEA RESEARCH LABORATORY

QUICK LOOK REPORT DIVE: PV-543

MISSION STATUS

Location: East of Necker

Latitude: 23° 13.993 N

Longitude: 163° 31.024W

Mission Date: 1 November 2003

Duration: 6 hours, 4 minutes.

Maximum Depth: 1720 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: Chris Kelley

Observer 2:

Address: See above.

Address:

Pilot 1: Terry Kerby

Pilot 2: Colin Wollerman

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 dive began at 1664 m as the Pisces V landed on a ridge running NW to SE. The sub collected a few specimens then headed downslope to 1720 m to conduct the first transect. In addition to interesting sponges and corals, beautifully shaped pillow lava formations were encountered and recorded on video. After completing the reansect, the sub conducted a vertical transect up the ridge to the top of a pinnacle at 1232 m. Nearh the top, columnar basalt was recorded along with an extremely abundant bed of Plumerlla sp, bamboo coral (Lepidisis sp) and Calyptrophora sp. The dive ended with the videotaping of a Grimpoteuthis octopus.

Species list:

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

Isidid	M	Anthomastus sp.	S
Plumerella sp	M	Iridogorgia superba	M
Sponge	M	Bathypathes	F
Keratoisis sp	M	Aspidodiadema sp.	S
Lepidisis olapa	A	Calyptrophora clarki n sp 1	S
Primnoid new genus	M	Shrimp	S
Chrysogorgia geniculata	F	Anemone	S
Acanthogorgia sp	F	Crinoid	S
Calyptrophora n sp	M	Grimptoteuthis	S
Iridogorgia bella.	M	Ophidiid	F
Coryphanoides sp,	S	Coryphanoides longicirrus	F
Crateromorpha sp	S	Macrourids	F
Hydrolagus purpureus	S	seastars	
Plumerella n sp	M		

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.

List specimens or samples collected on the mission.

Unknown isidid
 New primnoid sp
 New primnoid sp
 Chrysogorgia geniculata
 Acanthogorgia sp
 New primnoid
 Dead Iridogorgia superba stalk
 Calyptrophora sp
 Yellow Crateromorpha sp
 Plumerella sp
 Multiheaded Dactylocaulus sp
 Calyptrophora sp
 Branched Bathypathes sp

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 1 November 2003 in the following way:

- a. CTD data by 1 November 2005 (date)
- b. voice transcripts, video, and still camera film by 1 November 2005 (date)
- c. other 1 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