

HAWAI'I UNDERSEA RESEARCH LABORATORY

QUICK LOOK REPORT DIVE: PV-527

MISSION STATUS

Location: Pioneer Bank

Latitude: 25° 48.6501 N

Longitude: 173° 30.6016 W

Mission Date: 10 October 2003

Duration: 6 hours, 23 minutes

Maximum Depth: 1406 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

Address: Biology Department
MS#33, 214 Redfield
Woods Hole, MA 02543

Phone: (508) 289-2331

Observer 1: Chris Kelley

Observer 2: Stephen Cairns

Address: HURL

Address: Smithsonian

Pilot 1: Chuck Holloway

Pilot 2:

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

Objectives:

1. Perform observational transects of invertebrate fauna along the western slope at 1200 m and 600 m. Also begin vertical transect 1400 m up.
2. Collect samples for identification and for voucher specimens.
3. Collect rock samples to characterize geological setting.

Observations, findings, etc:

Seamount surveys continued today on the southwestern slope of Pioneer Bank. Pisces V landed on the side of a basalt cliff. After moving upslope to 1200 m, the sub conducted one contour transect followed by a transect up to 600 m. On the way, beds of Calyptophora and Narella gorgonians were encountered as the substrate changed from volcanic to drowned carbonate reef. One area in particular had beautiful rock formations covered with different cnidarians, a few of which were collected as specimens. As 600 m, the substrate turned into a sediment cobble slope which held only a few sea pens and anemones. This was quite a contrast to the same depth on the eastern side.

Species list:

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

sea pen (pennatulid)	F	Metallogorgia	F
sponge	F	Chrysogorgia	F
Narella nuttingi	F	Enallopsammia rostrata	F
Ophidiid	F	Polymyces wellsi	S
stalked sponge	F	satellite jelly	S
Solecaulon sp	S	Bathygadid	S
Anthomastus	F	Caelorinchus (silonotus or tokiensis-	S
Walteria sp	F	Ophiuroid	F
Iridogorgia sp	F	Brissingid	S
Farrea occa	F	Paragorgia sp	F
Aspidodiadem	S	Thouarella hilfendorfi	F
Paragorgia (regalis)	S	Isidella sp	F
Polycheles lobster	S	Siphonogorgia	S
Coryphanoides sp	S	Metallogorgia melanotrichos	S
Calyptrophora clarki	F	Polymixia sp	S
morid,	F	Liponema	F
Semperella sp.	F	Plesiobates daviesi	S
Gorgonocephalid	F	Umbellula	F
Narella dicotoma	F	Anemone	F
Caryophyllia diomedea	S		

MISSION EVALUATION:

Limitations, failures, or operational problems noted:

None.

Recommendations for corrective action or improvement:

None.

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

Yes. All of the planned transects were completed.

List specimens or samples collected on the mission.

Bottles

6-1	Large white sponge	6-11	Keroeides mosaica
6-2	Narella nuttingi	6-12	Isidella trchiotoma
6-3	Narella nuttingi	6-13	Umbellula sp (escaped)
6-4	Anthothela sp	6-14	Anemone and rock
6-5	Calyptrophora clarki	6-15	White anemone
6-6	Caryophyllia diomedea	Bio Box	
6-7	Enallopsammia rostrata		Large polyp pennatulid
6-8	Polymyces wellsi		Anthomastus
6-9	Rock sample		Urcin
6-10	Thousarella hilgendorfi		Paragorgia regalis
			Polychaelid lobster

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**

Seamount Surveys of Deep-Water Coral Distributions as Related to Geological Setting in
the Northwestern Hawaiian Islands
(project title)

held on 10 October 2005 in the following way:

- a. CTD data by 10 October 2005 (date)
- b. voice transcripts, video, and still camera film by 10 October 2005 (date)
- c. other 10 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