

HAWAI'I UNDERSEA RESEARCH LABORATORY

QUICK LOOK REPORT DIVE: PV-532

MISSION STATUS

Location: Laysan

Latitude: 25° 42.1873 N

Longitude: 171° 27.458 W

Mission Date: 18 October 2003

Duration: 5 hours, 53 minutes.

Maximum Depth: 1806 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: Terry Kerby, BIRTHDAY BOY!!!

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 southeast of Laysan.
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 basalt bottom with a slight slope. There were some octocorals near the landing site, so we spent some time collecting corals and rocks. We began our transect and collected a few corals along the transect. We were able to collect several species we couldn't get on previous dives. After the transect we collected a few more samples and proceeded upslope on a small pinnacle on the northwestern side of the seamount. As we moved upslope we observed many bamboo corals. Corals and sponges became more abundant as we approached the summit of the pinnacle. On the summit there were abundant specimens of the large *Corallium* we observed on Pioneer ridge. Also a small white coral which may be a new species of *Corallium* was observed in great abundance at the top. Iridigorgias were abundant throughout the dive. Sponges were abundant throughout the dive also. Bamboos were less abundant or absent on the peaks of the summits. It was a great dive with lots of important specimens collected!

Species list:

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

- Large Corallium – M
- Small white Corallium n. sp. – A
- Iridigorgia spp. – A
- Bushy bamboo – M
- Large bushy bamboo – M
- Menorah Bamboo – F
- Bamboo sticks – M
- Planar Bamboo – F
- Bamboo tall branched - F
- Chrysogorgia – F
- Sponges – A
- Bathypathes spp. – M
- Other Antipatharians – F
- Basket stars – F
- Holothurians - F
- Tunicate – S
- Fish – F
- Tripod fish small one – S

MISSION EVALUATION:

Limitations, failures, or operational problems noted:

Titan arm jaws would not close for first half of dive, limited collecting.
Thrusters failed on the way to the surface again

Recommendations for corrective action or improvement:

Jaws started working about half way through dive.
Try to fix the thrusters again.

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

We had a very successful dive today. We completed our 500m long transect at 1800 m depth. We had a chance to collect several species we missed on previous dives. We also completed our vertical transect up the slope of the small pinnacle on the seamount.

List specimens or samples collected on the mission.

- | | |
|-------------------|---------------------------|
| 6 – sponges | 4 – Corallium spp. |
| 7 – bamboos | 2 – Antipatharians |
| 2 – iridigorgia | 2 – white stick primnoids |
| 1 – metallogorgia | 2 – pennatulids |
| | 8 – 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**

held on 18 October 2003 in the following way:

- a. CTD data by 18 October 2005 (date)
- b. voice transcripts, video, and still camera film by 18 October 2005 (date)
- c. other 18 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