

HAWAI'I UNDERSEA RESEARCH LABORATORY
QUICK LOOK REPORT DIVE: PV-533

MISSION STATUS

Location: Laysan

Latitude: 25° 52.00 N

Longitude: 171° 57.967 W

Mission Date: 19 October 2003

Duration: 4 hours, 37 minutes

Maximum Depth: 572 m

Project Title: Reproductive Biology and Population Genetics of Hawaiian Precious Corals

Principal Investigator: Amy Baco-Taylor

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

Phone: (508) 289-2331

Observer 1: Amy Baco-Taylor

Observer 2: Wongyu Park

Address: See above.

Address:

Pilot 1: Chuck Holloway

Pilot 2:

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

Objectives:

1. Locate precious corals
2. Sample for population genetics + reproductive biology

Observations, findings, etc:

We landed on the bottom in the vicinity of abundant red corals and stylasterids. The substrate was carbonate and coral rubble throughout the dive. We encountered walls and low-angle hard bottom at the top of the wall. Red corals were abundant on the ledges and wall. Large stylasterids were observed in high abundance on the walls and ledges also. Stylasterids of a variety of morphs were extremely abundant on the top of the wall where there was minimal slope. We were able to fill the basket with both red corals and stylasterids. Other precious corals were not observed.

Species list:

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

Red Coral	A	Seastar	S
Stylasterids	AA	Calibelemnon symmetricum	M
Soft Coral	S	Regadrella sp	F
Chaunax	F	Hollardia goslinei	S
Histocidarids	F	Farrea sp	F
Stylocidarids	F	Gorgonocephalid	M
Other fishes	F	Stereocidaris hawaiiensis	F
Pennatulid	F	Gempyllid fish	S
Laemonema rhodochir	F		
Polymixia japonica	F		

MISSION EVALUATION:

Limitations, failures, or operational problems noted:

Titan arm had issues. Digital camera did not work for entire dive.

Recommendations for corrective action or improvement:

We were still able to collect.
Please fix the digital camera.

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 despite it being short. WE collected a full basket of red corals and a few basket of stylasterids. Other corals were not available for collection.

List specimens or samples collected on the mission.

30 – red coral

36 - stylasterids

1 – soft coral

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 19 October 2003 in the following way:

- a. CTD data by 19 October 2005 (date)
- b. voice transcripts, video, and still camera film by 19 October 2005 (date)
- c. other 19 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