

HAWAII UNDERSEA RESEARCH LABORATORY

QUICK LOOK REPORT MISSION NO. P5-501

MISSION STATUS

Mission Date: 11-26-02

Location (island, bank, seamount, etc): Cross Seamount

Specific Site (NE side, summit, etc): Summit

Position (start latitude & longitude): 18° 43.986/158° 15.566

Depth range: 388 - 422 m

Project Title: : Precious Corals in the Hawaiian Islands: Management Units Determined by Molecular Genetics

Principal Investigator: Amy Baco-Taylor

Address: WHOI Biology Dept.
MS#33, 214 Redfield
Woods Hole, MA 02536

Phone: 983-5373

Observer 1: Christopher Kelley
Address: Hawaii Undersea Research
Laboratory, 1000 Pope Rd, University of
Hawaii, Honolulu, HI 96822

Observer 2: Rebecca Scheinberg
Address: Oceanography Dept, UH
1000 Pope Rd, Honolulu, HI 96822

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

Materials & Methods:

The primary objective of this dive was to collect 15 specimens of gold coral, *Gerardia sp.*, and 15 specimens of either pink coral, *Corallium secundum*, or red coral, *Corallium regale*. The collection site was a pinnacle feature on the summit of Cross Seamount referred to as the coral garden. After the submersible arrived on the bottom, two transects were made through the garden area along which the collections took place. The specimens were placed into individual numbered containers mounted to the front rack of the Pisces 5. Once on the ship, the specimens were removed from the containers, split into pieces and transferred into a dry ice container, ethanol, and formalin for storage.

Scientific data acquired:

Twenty-seven of the thirty targeted specimens were collected on this dive. In addition, the submersible located and replaced 3 pots containing temperature loggers deployed the previous year by F. Parrish of NMFS. Since time still remained, the submersible then made an excursion down to a second location referred to as Jurassic Park where an aggregation of Cooke sharks, *Echinorhinus cookei*, had been observed the last 3 previous

years. These sharks were again observed on this dive for the fourth straight year. Finally, an unusual *Anthomastus* coral was also collected for identification.

Specimens collected: *Gerardia sp* fragments: 13
C. secundum fragments: 5
C regale fragments: 9
Anthomastus sp: 1

MISSION EVALUATION:

Limitations, failures, or operational problems noted:

No major problems, except the titan manipulator malfunctioned which prevented the collection of the final 3 specimens.

Recommendations for corrective action or improvement:

The problem has already been fixed

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 in all, it was a very successful dive.

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 **P4-501** held on 11-26-02.

- a. CTD data by 11-26-04
- b. video data by 11-26-04
- c. other _____ (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