

HAWAII UNDERSEA RESEARCH LABORATORY

QUICK LOOK REPORT MISSION NO. P5-502

MISSION STATUS

Mission Date: 11-27-02

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

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

Position (start latitude & longitude): 18° 43.920/158° 15.583

Depth range: 392 - 428 m

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

Principal Investigator: Amy Baco-Taylor

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Observer 1: Christopher Kelley
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Observer 2: Rebecca Scheinberg
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Scientific Data Acquired: Prepare an abstract outlining your objectives, techniques, findings, etc.

Materials & Methods:

The primary objective of this dive was to collect a minimum of 2 specimens of gold coral, *Gerardia sp*, 10 specimens of pink coral, *Corallium secundum*, and 6 specimens of red coral, *Corallium regale*. The collection site and the methods were the same as those for dive P5-501. 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:

All of the 18 targeted specimens as well as 2 additional golds and 1 red were collected as planned, yielding a total for this and the previous dive to 48. In addition, the submersible deployed two markers next to small gold coral trees for F. Parrish of NMFS. A marker (#16) was placed next to one of the trees as well to facilitate its relocation on a future dive.

Specimens collected: *Gerardia sp* fragments: 4
C. secundum fragments: 10
C regale fragments: 7

Polychaete worm (from a pink coral fragment)
Crab (from a pink coral fragment)

MISSION EVALUATION:

Limitations, failures, or operational problems noted:

The titan manipulator malfunctioned again which forced the pilot, Chuck Holloway, to collect most of the specimens with the less agile "Hycos" manipulator. This slowed up the process however the work was still accomplished due to Chuck's skill with the manipulator.

Recommendations for corrective action or improvement:

None, the connector that should fix the problem will be installed before the next project.

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

Yes.

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 **P4-502** held on 11-27-02.

- a. CTD data by 11-27-04
- b. video data by 11-27-04
- 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