HAWAII UNDERSEA RESEARCH LABORATORY

QUICK LOOK REPORT MISSION NO. P4-082

MISSION STATUS

Location: South point, Hawaii

Mission Date: Nov. 23, 2002

Maximum Depth: 503 m

Project Title: Black and Pink Coral Resource Assessment

Principal Investigator: Richard Grigg

Address: Department of Oceanography, MSB 605
University of Hawaii
Honolulu, HI 96822

Phone:

Observer 1: R. Grigg **Observer 2:** Chris Kelley

Address: see above **Address:** SOEST / HURL

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

On this dive a vertical transect from 503 m to 60 m and then back down to 440 m was completed, and produced a good record of vertical zonation of benthic organism's. Five clear cut zones can be identified as follows; moving from deep to shallow.

Dominant Species	Depth range (m)	Significance
Corallium regale503-386	Commercial bed* of red coral	
Barren zone	380-215	Gap between shelf and reef fauna
Madrepora	215-180	Ahermatypic scleractinian
Cirrhipathes spiralis	180-130	Beginning of reef fauna
Antipathes grandis	103-60	Deep reef dominant species and and
Leptoseris		commercial bed of black coral with colonies up 3+ m.

* red coral up to 1 colony/m^2, with many colonies in size range of 30-50m.

In terms of geology, both a'a and pahoehoe (pillow) lava flows were encountered. The wall of the South Point rift zone was also observed.

MISSION EVALUATION:

Limitations, failures, or operational problems noted:

Had to motor seaward for 20 minutes to accommodate KOK recovery at least 0.25 miles from shore. Trim weight cable broke during recovery aborting second dive in program.

Recommendations for corrective action or improvement:

Re-schedule second dive at a later date.

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

Yes, in terms of successful location of two beds of precious coral (red and black) of the collection of specimens.

List specimens or samples collected on the mission.

2 colonies of Corallium regale

2 colonies of Antipathes grandis

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

Black and Pink coral Assessment (project title)

held on 11-23-2002 (date) in the following way:

a. CTD data by 11-23-2003 (date)

b. voice transcripts, video, and still camera film by 11-23-2003 (date)

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