HAWAI'I UNDERSEA RESEARCH LABORATORY

QUICK LOOK REPORT
DIVE: RCV-283

MISSION STATUS

Location: AuAu Channel, SE Lanai

Latitude: 20 ° 48.003 **Longitude:** 156 ° 46.499

Mission Date: 9/8/04 **Duration:** 2 hours 30 mins

Maximum Depth: 55-99 m

Project Title:

Principal Investigator: Whitlow Au

Address: Hawaii Institute of Marine Biology, Marine Mammal Lab
Kaneohe, HI

Phone: 808-247-5026

Observer 1: Christopher Kelley
Address: HURL

Observer 2: Marc Lammers
Address: Hawaii Institute of Marine Biology

Pilot 1: Dan Greeson

Pilot 2: Peter Townsend

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

Objectives: Conduct a survey of a known bottomfish habitat site for possible future acoustics work

Observations, findings, etc:

The RCV-150 had been having mechanical problems prior to this dive. Aside from a stationary test dive to 100 ft when the ship was at anchor, this was the first dive during which the ship was actually moving. The ROV manager requested the dive be conducted on relatively flat sediment substrate. Bottomfish are not found on this type of habitat and therefore the objective was changed. The previous science group was composed of botanists studying deepwater beds of Halimeda sp which are found on soft sediment.

Since they were unable to use the ROV during their study, we conducted this dive on one of their sites and attempted to document the depth range of Halimeda sp for their benefit. The dive began in the bed at 55 meters depth and continued transecting into deeper water until the dive was terminated at 100 meters. The bed of Halimeda sp extended down to approximately 66 meters. Close-up images of various species of algae were obtained during the transect. Near the end of the dive, a group of black coral, *Antipathes dichotoma*, were encountered, some of which were overgrown by the introduced telestacean, *Carijoa riseii*. This was the focus of the other science party on board the ship and therefore the dive was continued to document these corals for their benefit. Therefore, while the dive did not meet its original objective, it was never-the-less productive for other studies.

Species list:

Algae

Assorted algae species

Fish

Decapterus macarellus, Diodon holocanthus, Arothron hispidus

Invertebrates

Pentaceraster cummingi, Antipathes dichotoma, Carijoa riseii,oysters, and others

MISSION EVALUATION:

Limitations, failures, or operational problems noted:

The original objective could not be achieved because of previous mechanical problems. A substitute objective that benefited another project was achieved.

Recommendations for corrective action or improvement:
None, the ROV appears to be working properly now.

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

It did not, but it was still a productive dive.

List specimens or samples collected on the mission.

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 (project title)

held on 9/8/04 (date) in the following way:

a. CTD data by 9/8/04 (date)

b. video and images by 9/8/04 (date)

c. other 9/8/04 (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