

**HAWAII UNDERSEA RESEARCH LABORATORY**

**QUICK LOOK REPORT MISSION NO. RCV-197**

MISSION STATUS

**Mission Date:** 10-29-02

**Location (island, bank, seamount, etc):** Molokai

**Specific Site (NE side, summit, etc):** Penguin Banks

**Position (start latitude & longitude):** 20° 56.737/157° 23.864

**Depth range:** 30-250 m

**Project Title:** Effectiveness of refugia on bottomfish stocks

**Principal Investigator:** Robert Moffitt

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**Phone:** 983-5373

**Observer 1:** Chris Kelley

**Address:** HURL

**Observer 2:** Robert Moffitt

**Address:** NOAA Fisheries

2570 Dole Street

Honolulu, HI 96822

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

Materials & Methods:

The original objective for the Penguin Banks ROV dives was to obtain acoustic data on the mesopelagic boundary layer community. This study was aborted the day before departure from Honolulu as a result of a problem with the acoustic equipment and instead, will be postponed until 2003. To assist the principal investigator of that study, Dr Whitlow Au, a set of 3 simulated acoustic dives were conducted this year. This particular dive was the second of that series and involved deploying the ROV as a video “tow-yo” between the depths of 30 to 250 m. The dive protocol was simply to lower the ROV to an initial depth of 30 m between 2100-2200 hrs, then subsequently lower it at 20 m intervals to a final depth of 250 m. The ROV was stopped at each interval for two minutes to record on video what ever mesopelagic organisms were encountered.

Scientific data acquired:

The “tow-yo” was successfully completed as planned. At each 20 minute interval, the time, depth of the ROV, depth of the sea floor, water temperature, and the general description of the organisms observed were recorded. Once back in Honolulu, a copy of the videotape will be provided to Dr. Au for his analysis.

**Table 1: Biological organisms observed during the dive.**

<b>FISHES</b>	<b>ECHINODERMS, CRUSTACEANS, &amp; MOLLUSKS</b>	<b>CORALS, SPONGES &amp; OTHER INVERTS</b>
Small unidentified fishes	Small crustaceans	Scyphozoans?, etc.

**Specimens acquired:** None

**MISSION EVALUATION:**

**Limitations, failures, or operational problems noted:**

None

**Recommendations for corrective action or improvement:**

None

**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 **RCV-197** held on 10-29-02.

- a. CTD data by 10-29-04
- b. video data by 10-29-04
- 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