

**HAWAII UNDERSEA RESEARCH LABORATORY**

**QUICK LOOK REPORT MISSION NO. RCV-206**

MISSION STATUS

**Mission Date:** 11-02-02

**Location (island, bank, seamount, etc):** Lanikai, Oahu

**Specific Site (NE side, summit, etc):** Lanikai, Oahu

**Position (start latitude & longitude):** 21°26.400 157°36.850

**Depth range:** 659-710 m

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

**Principal Investigator:** Robert Moffitt

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**Observer 2:** Jane Culp  
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**Scientific Data Acquired: Prepare an abstract outlining your objectives, techniques, findings, etc.**Materials & Methods:

The main objective of this study is to complete an evaluation of the effectiveness of DLNR's bottomfish management plan. This is being accomplished with follow-up submersible surveys to our 1998 and 1999 studies, which provided baseline data on densities of onaga and ehu in two refugia and two adjacent control areas. ROV dive objectives are to characterize habitats at and near the study sites. This is being accomplished by conducting videosurveys during which all fish and invertebrate species encountered are recorded along with substrate and depth information.

Scientific data acquired:**Table 1: Biological organisms observed during the dive.**

| <b>FISHES</b>            | <b>ECHINODERMS,<br/>CRUSTACEANS, &amp;<br/>MOLLUSKS</b> | <b>CORALS, SPONGES &amp;<br/>OTHER INVERTS</b> |
|--------------------------|---|--|
| Nettastoma parviceps     | ophiuroid   | Enallopsammia rostrata                         |
| macrourid – shovel nose  | Henricia sp   | Dictyaullus sp                                 |
| Uroconger lepturus       | urchin  | Semprella sp 2                                 |
| Synaphobranchid          | Aspidodiadema sp  | chrysogorgiid - yellow                         |
| Bathycongrus aequorus    | Asthenactis papyraceus                                  | Narella nuttingi                               |
| Centrocilium             | Heterocarpus laevigatus                                 | gorgonian                                      |
| Ophidiid                 | seastar spiked cushion                                  | dendrophyllid                                  |
| macrourid – white dorsal | Trochid   | Lepodisis olapa                                |
| Luciobrotula bartschi    | shrimp  | Metalogorgia melanotrichos                     |
| macrourid                | Eumunida sp   | Corallium red ?                                |
|                          |   | Keratoisis sp ?                                |
|                          |   | Paragorgia regalis                             |
|                          |   | anemone brown                                  |
|                          |   | sponge ribbon                                  |
|                          |   | Farrea occa                                    |
|                          |   | Anthomastus sp.                                |
|                          |   | Narella megalepis                              |
|                          |   | Farrea sp.                                     |
|                          |   | Cirrhopathes spiralis                          |
|                          |   | Anthomastus red                                |
|                          |   | Iridogorgia superba                            |
|                          |   | Narella sp 1                                   |
|                          |   | Corallium ducale                               |
|                          |   | Caulphacus sp 3                                |
|                          |   | Isidiid  |
|                          |   | yellow gorgonian                               |
|                          |   | sponge fringe                                  |
|                          |   | Regadrella sp 1                                |
|                          |   | Iridogorgia cattail                            |
|                          |   | Chrysogorgia stellata                          |
|                          |   | sponge stalked                                 |
|                          |   | sponge vase                                    |
|                          |   | zoanthinarian colonial ?                       |

The habitat for this dive was bedded limestone with a manganese crust and a light sediment dusting and large broken plates of the above. No bottomfish were seen.

MISSION EVALUATION:

**Limitations, failures, or operational problems noted:** none

**Recommendations for corrective action or improvement:**

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

Yes. Information on an area that had not been previously surveyed was obtained. Very good images were obtained of some species for which better images were needed.

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-206** held on 11-02-02.

- a. CTD data by 11-02-04
- b. video data by 11-02-04
- 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