

HAWAII UNDERSEA RESEARCH LABORATORY
QUICK LOOK REPORT MISSION NO. RCV-157

MISSION STATUS

Location: Kahoolawe Island Reserve

Mission Date: 08-30-02

Maximum Depth: 130m

Project Title: RCV bottom survey of benthic resources

Principal Investigator: Rick Grigg

Address: Dept. of Oceanography
1000 Pope Rd.
University of Hawaii, Honolulu, Hi. 96822

Phone: 956-7186

Observer 1: D..Chave
Address: Hawaii Undersea Research Lab
1000 Pope Road
University of Hawaii

Observer 2: C. Kelley
Address: Hawaii Undersea Research Lab
1000 Pope Road
University of Hawaii

Observer 3: S. Whitcraft
Address: Kahoolawe Island Reserve Commission
811 Kolu St #201
Wailuku, Hawaii

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

The primary objective of the KIR surveys is to evaluate bottom resources around Kahoolawe. RCV-157 was located inshore of RCV-156 beginning at a depth of 73 m located at 20:31.843 by 156:31.445 N and ending at 20:32.036 by 156:31.280 at a depth of 133 m. The bottom on this transect was very similar to RCV-156 except that it began shallower. At the beginning of the transect, one carbonate outcrop was observed at 78m that was heavily encrusted with *Leptoseris* corals, white tunicates and red sponges . No commercial black corals were observed, nor was *Carijoa* present. Otherwise the transect was unremarkable and overlapped the habitat covered in RCV-156. See below for list of species observed.

MISSION EVALUATION:

Limitations, failures, or operational problems noted:

The boundary of the reserve at 30 fathoms and close proximity to shore prevented the transect from starting in shallower water.

Recommendations for corrective action or improvement:

A permit to conduct transects shallower than 30 fathoms would be beneficial.

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

Yes, except that a shallower start position might have produced better results covering hard bottom outcrops.

List specimens observed on the mission.

FISHES:

myctophids. 100+
Decapterus macarellus? 1
Aulotrachichthys prosthemius 3
Fistularia petimba 1
trichiurids 2
Ariosoma marginatum 2
Saurenhelys stylurus 3
Canthigaster rivulata 1
Antenarius sp (white) 1

ECHINODERMS:

Chondrocidaris gigantea 2
Aspidodiadema hawaiiense 1
Acanthocidaris hastigera 1
Stichopus horrens? 1

CRUSTACEANS

shrimp (small red) 10+
Plesionika sp 2

Melicertus marginatus 1
Plesionika flag 1
mysids 1,000+

CNIDARIANS

Cirripathes spiralis 2
Antipathes brown 20+
Antipathes sp2 10+
pennatulid 1
gorgonian white 6
Corymorpha sp. 1
cerianthid brown
Leptoseris sp 6

OTHER

sponge brown
encrusting sponges

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 video and 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-157 Bottom survey of benthic resources around Kahoolawe** held on 08-30-02 in the following way:

- a. CTD data by 08-30-04
- b. video data by 08-30-04
- 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