

HAWAII UNDERSEA RESEARCH LABORATORY

QUICK LOOK REPORT MISSION NO. RCV-158

MISSION STATUS

Location: Kahoolawe Island Reserve

Mission Date: 08-31-02

Maximum Depth: 99m

Project Title: RCV bottom survey of benthic resources

Principal Investigator: Rick Grigg

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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-158 started at 20:31.284 N by 156:44.291 W at 64 m and ended at 20:31.286 N by 156:45.260 W at 99 m. The area covered was on Kuia Shoal on the western shelf of the island. The habitat covered was 99% sand; only one carbonate boulder was observed on the transect. The boulder was about 2x3 m with about 2m vertical relief and was covered by encrusting corals (*Montipora* and *Leptoseris*) but no black coral or *Carijoa*. The dominant community on the sand was a *Halimeda* pasture community. Extensive beds of *Halimeda* were observed but they contained few associated organisms (see below). The other conspicuous feature of the sand plains were large and circular pits of unknown source (rays, whales, ?) cratered in the substrate. No precious corals were observed and bottom fish were sparse.

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, although the lack of solid ground was surprising.

List specimens and their numbers observed on the mission.

FISHES

Fistularia petimba 1
Fistularia commersonii 1
Dascyllus albisella 1
Canthigaster coronata 2
Acanthurus xanthopterus 1
Heniochus diphreutes 1
Diodon holocanthus 1
Lactoria diaphana 1
Kentacapros aculeatus 1
Decapterus macarellus 15

ECHINODERMS

Pentaceraster cumingi 4
Astropyga radiata 1
Holothuria pervicax 1
Holothuria atra 1

CRUSTACEANS

shrimp (small red) 4
crab red (small) 3
galatheid (Paramunida?) 1

CNIDARIANS

Montipora sp 1
Leptoseris sp 4

SPONGES

sponge orange rounded 30+
sponge red finger-like 10+

ALGAE

Halimeda sp (collected) huge beds
blue green 50+

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 bottom survey of benthic resources around Kahoolawe

held on 08-31-02 in the following way:

- a. CTD data by 08-31-04
- b. video data by 08-31-04
- 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