

HAWAII UNDERSEA RESEARCH LABORATORY

QUICK LOOK REPORT MISSION NO. RCV-159

MISSION STATUS

Location: Kahoolawe Island Reserve

Mission Date: 08-31-02

Maximum Depth: 85m

Project Title: RCV bottom survey of benthic resources

Principal Investigator: Rick Grigg

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811 Kolu St #201
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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-159 was located on Kuia Shoal just to the south of RCV-158. The transect started at 20:30.504 N by 156:43.052 W at a depth of 85 m and ended at 20:31.052 N by 156:44.813 W at a depth of 79 m. The habitat covered again (like RCV-158) was carbonate sand dominated by *Halimeda* pasture communities and large areas of open sand that was cratered with large (several m in diameter) pits of unknown origin. Again the *Halimeda* pastures were remarkable in their low diversity of associated organisms. Six outcrops of low (~1-2 m) and small carbonate boulders were encountered and all were encrusted with invertebrates but none supported black corals or *Carijoa*. Bottom fish were sparse throughout although one juvenile kalikali (*Pristipomoides seiboldi*), a brief glance of another snapper (*Etelis* sp), and *Decapterus macarellus* were observed. Most of the fish associated with the *Halimeda* beds were *Lactoria*, *Arothron* and *Canthigaster*.

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

List specimens observed on the mission.

FISHES

Arothron hispidus 8
Pristipomoides sieboldii 1
Canthigaster rivulata 1
Canthigaster coronata 4
Lactoria diaphana 6
Decapterus macarellus 10
Ariosoma marginatum 4
trichiurid 2
Etelis sp 1
Kentacapros aculeatus 1
scorpaenid 1
Fistularia petimba 1
Canthigaster jactator 4
carapid 2

CRUSTACEANS

Dardanus sp. 1
galatheids (Paramunida?) 10+
crab red 4
Parthenope contrarius 1

MOLLUSKS

Cassis cornuta 1
fasciolid-like mollusk 1

ECHINODERMS

Astropyga radiata 10
Pentaceraster cumingi 4
Holothuria atra 3
Holothuria cinerascens 1

CNIDARIANS

Pocillopora 4
Sinularia abrupta 6+

SPONGES

orange round sponge 100+
red finger sponge 50+
purple encrusting (on 5 rocks)

OTHER

bryozoan fan orange 1
swimming ctenophore

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