HAWAI'I UNDERSEA RESEARCH LABORATORY

QUICK LOOK REPORT (QLR) for *Pisces* and *RCV-150*

DIVE: P4-235

MISSION STATUS

Location: Auau Channel, Maui

Latitude: 20° 45.491 **Longitude:** 156° 40.715

Mission Date: 1/17/2010 **Duration:** 8 hours 0 mins

Maximum Depth: 121 meters

Project Title: Deep CRES

Principal Investigator: Pyle, Parrish, Rooney, Montgomery, Popp, Smith

Address: 2570 Dole St.

Honolulu, HI 96822

Phone: 808-587-0365

Observer 1: Afsheen Siddiqi **Observer 2:** Ray Boland

Address: UH-Oceanography **Address:** NOAA-NMFS

Pilot 1: Terry Kerby **Pilot 2:** _____

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

Objectives:

1) Conduct fish collections and fish transects.

Observations, findings, etc:

Dropped into sand field at 101m. Moved a short distance to the west and found edge of Leptoseris sp. bed. Conducted short fish transect to edge of Leptoseris sp. bed. Observer counted fish and size classes. Moved to drop off at 100 meters. Dropped over edge and set up fish collection station at 107m. All equipment working well, rotenone mix good. Collected several species of fish, including large scorpanid. Moved NW then back SE and descended to 121m, set up fish collection station. Rotenone dispenser clogged, unable to

collect fish. Moved SE set up fish collection station at 119m, dispenser working again, able to collect fish. Moved SE to 101m set up fish collection station and collected fish. Rotenone lethality seems to be declining, had to use a lot. Moved to 100m at top of wall and set up fish collection station, able to collect some fish. Moved NE to edge of Leptoseris field at 100m and began fish transect. Leptoseris bed ended, moved west conducting fish transects. Ended transect and dive at 100m.

Observed Species list:

Corals:
Leptoseris hawaiiensis

Fish:
Aphareus rutilans, Apogonidae sp., Arothron hispidus, Arothron meleagris, Aulostomus chinensis, Bodianus bilunulatus, Cantherhines sp., Canthigaster coronata, Canthigaster epilampra, Canthigaster jactator, Caranx ignobilis, Caranx melanpygus, Cirrhilabrus jordani, Chaetodon fremblii, Centropyge potteri, Chromis leucura, Chromis ovalis, Chromis verater, Decapterus macarellus, Forcipiger flavissimus, Genicanthus personatus, Gymnothorax nudivomer, Heniochus diphreutes, Holanthias fuscipinnis, Lactoria diaphana, Lutjanus kasmira, Mypristes chryseres, Naso hexacanthus, Oligolepis sp., Ostracion meleagris, Oxycheilinus bimaculatus, Parapercis schauinslandi, Parupeneus chrysonemus, Parupeneus multifasciatus, Plectrypops lima, Prognothoides sp., Pseudanthias hawaiiensis, Pseudanthias thompsoni, Pseudocheilinus evanidus, Pseudoholocanthus arcuatus, Sargocentron sp., Seriola dumerili, Synodontidae, Trimma taylori, Xanthichthys auromarginatus, and Zanclus cornutus.

MISSION EVALUATION:

Limitations, failures, or operational problems noted:
The rotenone dispenser became clogged at one point.

Recommendations for corrective action or improvement:
A hole in the top of the cubitainer seemed to remedy that.

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

The mission successfully accomplished it goals.

List specimens or samples collected on the mission:

1 Apogonidae
1 Centropyge fisheri
3 Chromis verater
3 Cirrhilabrus jordani
1 Mypristes chryseres
1 Plectrypops lima
10 Pseudanthias hawaiiensis
2 Scorpaenids
10+ Trimma taylori
2 unidentified fish

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 (Project title):

Deep Coral Reef Ecosystem Studies

Held on _____ (date) in the following way:

a. CTD data by _____ (date)

b. Video and images by _____ (date)

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).

Rich Pyle, Frank Parrish, John Rooney, Celia Smith, Brian Popp, Tony Montgomery
Principal Investigator