HAWAI'I UNDERSEA RESEARCH LABORATORY

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

DIVE: _R-410_____

(*Extend length of sections as needed/appropriate*)

MISSION STATUS

Location: South Kauai, Makahuena Point

Latitude: 21 50.996 **Longitude:** 159 26.426

Mission Date: 12/10/2007 **Duration:** 1 hour 51 min

Maximum Depth: 276

Project Title: Comparing Hawaii's Deep Reef Coral Communities

Princi pal Investigator: Montgomery/Rooney/Pyle/Boland/Parrish

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Honolulu, HI 96813

Phone: 587-0365

Observer 1: Tony Montgomery **Observer 2:** Ray Boland

Address: _1151 Punchbowl Street Rm 330 **Address**: 2570 Dole Street
Honolulu, HI 96813 Honolulu, HI 96822

Pilot 1: Dan Greeson **Pilot 2:** Pete Townsend

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

Objectives:

The main objective of this dive was to scout areas for black and scleractinian corals around south eastern Kauai. Not many deep water scleractinian corals are known around Kauai, but black corals are well known, but not from specific locations. This dive was planned to help assist the scientists document the presence of deep water corals in general around Kauai for comparison to Maui. The initial part of the dive started deep in order to cover both deeper and shallower ledge features in the area to make comparisons between depths.

QLR continued
Observations, findings, etc:

The ROVv crossed the deep 120 m slope/ledge and showed zero black coral and scleractinian corals. The ROV track was meant to cross into the 50 meter isobath, but the track line was not set-up to the correct bearing. Much time was spent crossing flat sand with very little to no benthic organisms.

Observed Species list:

Cirrhipathes spiralis
Odantianthias elizabethae
Antipathes sp.
Chromis verator
Naso hexacanthus
Heniocus diaphretes
Kahala
Myrioprites chyrseres
Cerianthid
Seastar?
Antipathes dichotoma
Cheatodon tinkeri
Skunk urchin
Neophis qurelinetus
Pentaceraster cumingi
Halimeda

MISSION EVALUATION:

Limitations, failures, or operational problems noted:

The track line was set up incorrectly due to an error reading the bathymetry. The ship did an excellent job following the track line and was able to stay on top of the plotted line.

Recommendations for corrective action or improvement:

Verify that the bathymetry is correct while plotting tracklines.

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

Even though little corals were found, the observations were vital to planning the next days sub dive in order to not waste time in the sub. The dive was called early in order to reposition the ROV to check another area.

List specimens or samples collected on the mission:
None

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

Comparing Hawaii's Deep Reef Coral Communities

_____

_____

Held on 12/10/2007 (date) in the following way:

a. CTD data by 12/11/2009 (date)

b. Video and images by 12/11/2009 (date)

c. Other 12/11/2009 (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

ANNUAL/FINAL REPORT

NOAA's Office of Undersea Research
Submersible Science Program

Report Status: _____ Final or Continuing _____

Date of Report: _____ Dive Numbers: _____

Inclusive Dates of Mission: _____

Project Title: _____

_____

Principal Investigator: _____ Signature: _____

Names of Co-Investigators: _____

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I. Abstract of Mission Results: Please include diagrams or figures as appropriate.

II. Please discuss the following:

A. Significance of the mission in relation to your research goals.
B. Scientific contributions of the mission in terms of species, patterns, and processes observed or measured. Were the initial hypotheses addressed; were any new ones posed as a result of the mission? Was the methodology and/or technology utilized successful and repeatable by others?
C. For continuing status reports, indicate the extent of data analysis or manuscript preparation completed to date.
D. Advantages of NOAA's Undersea Research Program to your research investigations.
E. Plans for use of the data gathered on this mission and the applications, products and/or benefits to NOAA.

III. Please include any comments on the following operational details, where applicable:

A. Weather and water conditions affecting operations
B. Safety problems and/or concerns
C. Dive management and personnel cooperation
D. Logistics and support activities