HAWAI'I UNDERSEA RESEARCH LABORATORY

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

DIVE: PIV-202

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

MISSION STATUS

Location: Makahuena Point, South Kauai

Latitude: 21° 51.141 **Longitude:** 159° 25.998

Mission Date: 12/11/2007 **Duration:** 6 hours 52 mins

Maximum Depth: 274 meters

Project Title: Comparing Hawaii's Deep Reef Coral Communities

Principal Investigator: Montgomery/Rooney/Boland/Parrish/Pyle

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Observer 1: Tony Montgomery
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Observer 2: Raymond Boland
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2570 Dole St.
Honolulu, HI. 96822

Pilot 1: Max Cremer **Pilot 2:**

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

Objectives:

Collect *Antipathes* samples for genetic, taxonomic, and histology sampling and measure *Antipathes* trees. Conduct fish surveys. Collect samples of algae and rubble samples.

Observations, findings, etc:

Conducted two 20 minute fish transect surveys. On video "Kalikali" is misidentified, the correct identification is *Aphareus rutilans*. On video "Parupeneus bifasciatus" is misidentified, the correct identification is *Parupeneus insularis*. On video "*Parupeneus chyserus*" is misidentified, the correct identification is *Parupeneus pleruostigma*. On video "Long horn Naso" is misidentified, the correct identification is *Naso brevirostris* On video "burrfish" is misidentified, the correct identification is *Diodon hystrix.* On video "unknown Naso" is misidentified, the correct identification is *Acanthurus thompsoni.* Collected 10 *Antipathes* samples for collection. Collected an algal sample. Collected rubble samples.

Observed Species list:

Antipathes dichtoma
Antipathes grandis
Myriopathes ulex
Panulirus marginatus
Eurypatagus ovalis
J shaped sponge
Carcharhinus plumbeus
Spyhrna lewini
Gymnothorax berndti
Gymnothorax nudivomer
Gymnothorax steindachneri
Mypristes berndti
Mypristes chryseres
Neoniphon aurolineatus
Sargocentron spiniferum
Aulostomus chinensis
Pontinus macrocephalus
Symphysanodon maunaloae
Luzonichthys earlei
Odontanthias elizabethae
Odontanthias fuscipinnis
Pseudoanthias bicolor
Pseudoanthias hawaiiensis
Pseudoanthias thompsoni
Cephalopholis argus
Lipropoma aurora
Grammatonotus sp.
Oxycirrihtes typus
Cookeolus japaonicus
Malacanthus brevirostris
Caranx ignobilis
Caranx melanpygus
Decapterus macarellus
Seiola dumerili
Aphareus rutilans
Aprion virescens
Lutjanus fulvus

Monotaxis grandoculis
Lutjanus kasmira
Mulloidichthys flavolineatus
Mulloidichthys vanicolensis
Parupeneus cyclostomus
Parupeneus insularis
Parupeneus multifasciatus
Parupeneus pleruostigma
Chaetodon auriga
Chaetodon fremblii
Chateodon klenii
Chaetodon lunula
Chaetodon tinkeri
Chaetodon miliaris
Chaetodon multicinctus
Forcipiger longiristris
Hemiaurichthys polylepis
Heinochus diphrutes
Prognathodes sp.
Roa excelsa
Apolemichthys arcuatus
Centropyge potteri
Genicanthus personatus
Oplegnathus punctatus
Chromis hanui
Chromis leucura
Chromis ovalis
Chromis verator
Dascyllus albisella
Bodianus albotaeniatus
Bodianus sanguineus
Oxycheilinus bimaculatus
Oxycheilinus unifasciatus
Pseudocheilinus evanidus
Anampses chrysocephalus
Coris ballieui
Coris flavovittata
Labroides phthirophagus
Thallasoma duperrey
Iniistius aneitensis
Scarus dubius
Scarus rubroviolaceus
Parapercis schauinslandii
Ptereleotris heteroptera
Zanclus cornutus
Acanthurus dussmieri
Acanthurus nigrofuscus
Acanthurus olivaceus
Acanthurus thompsoni
Ctenochaetus strigosus
Zebrasoma flavescens
Naso brevirostris
Naso hexacanthus
Naso lituratus

Naso maculates
Naso unicornis
Melichthys vidua
Sufflamen bursa
Sufflamen fraenatum
Xanthichthys auromarginatus
Xanthichthys caeruleolineatus
Xanthichthys mento
Canthigaster coronata
Arothron hispidus
Diodon hystrix

MISSION EVALUATION:

Limitations, failures, or operational problems noted:
Low battery power near end so unable to collect specimens

Recommendations for corrective action or improvement:
Try to collect specimens earlier in order to account for low power situations.

In your opinion, did the mission essentially achieve its purpose? Compare actual work accomplished with the work that was expected to be accomplished:
Yes, the dive accomplished all major goals except specimen collecting. Important black coral samples were collected, but other plate corals and invertebrates were not collected.

List specimens or samples collected on the mission:

Black Corals:
9 Antipathes dichotoma
1 Antipathes grandis –pale
Cirrhipathes sp.

Smalll rocks with inverts and algae

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 12/11/2007 (date) in the following way:

a. CTD data by 12/12/2007 (date)

b. Video and images by 12/12/2007 (date)

c. Other 12/12/2007(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).

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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