

HAWAI'I UNDERSEA RESEARCH LABORATORY

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

DIVE: P5-716

(Extend length of sections as needed/appropriate)

MISSION STATUS

Location: South Keyhole Pinnacle, Maui

Latitude: 20°56.489

Longitude: 156°45.686

Mission Date: 2-22-2009

Duration: 3 hours 24 mins

Maximum Depth: 205 meters

Project Title: CRES/ Black Coral Taxonomy_____

Principal Investigator: Tony Montgomery

Address: 1151 Punchbowl St Rm 330
Honolulu, HI 96813

Phone: 808-576-0365

Observer 1: Tony Montgomery

Observer 2: Dennis Opresko

Address: _____

Address: _____

Pilot 1: Terry Kerby

Pilot 2: _____

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

Objectives:

This project had several objectives for addressing both black coral taxonomy and deep coral reef ecosystems studies projects. Specimens of several species of black coral were collected in order to better characterize the species assemblages between 90 and 130 meters. A total of 8 specimens were collected and at least 7 specimens represented a newly discovered antipatharian genus (*Aphanipathes*) in Hawaii. Dr. Opresko was able to identify the specimens as an *Aphanipathes* sp. Also, specimens of *Antipathes grandis*,

Antipathes dichotoma and Myriopathes ulex were planned to be collected. However, only one specimen of A. grandis and no other species were collected due to time constraints on the sub dive.

The deep coral reef ecosystems studies project had three main objectives. One) deploy 6 thermistors between 160 and 75 meters to characterize temperature fluctuations on the deep reef, Two) replicate a transect from previous dives to characterize the coral community., Three) collect a small amount of coral and rubble to help document species discovery and biodiversity on the deep reef. Five of the six thermistors were deployed although not at the locations desired due to time constraints. The transect and collections did not occur due to time constraints.

Observed Species list:

Antipathes grandis
Aphanipathes sp.
Myriopathes ulex
Stichopathes sp.
Humpback Whale

MISSION EVALUATION:

Limitations, failures, or operational problems noted:

The sub was called back early due to a major failure with the KOK. This cut the dive to less than half the planned dive time.

Recommendations for corrective action or improvement:

Maintain ship in functioning order in order to complete the dive season.

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

No, many objectives were not achieved and the objectives that were achieved were rushed in order to complete one of the main objectives. However, in the short time, most thermistors were deployed and the main antipatharian species of interest was collected and documented.

List specimens or samples collected on the mission:

1 Stichopathes sp.
1 Antipathes grandis
6 Aphanipathes sp.

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):

Black Coral Taxonomy/ Coral Reef Ecosystem Studies Project

Held on 2-22-2009 (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).**

Tony Montgomery _____
Principal Investigator