

HAWAI'I UNDERSEA RESEARCH LABORATORY

QUICK LOOK REPORT DIVE: RCV-219

MISSION STATUS

Location: Nihoa, NWHI

Latitude: 23°12.4730

Longitude: 161°51.9400

Mission Date: 9/06/2003

Duration: 2 h 00 min

Maximum Depth: 336 m

Project Title: Canyon & Scavenger Communities of the Main & Northwestern Hawaiian Islands

Principal Investigator: Craig Smith & Eric Vetter & Frederic Martini

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Honolulu, HI 96822

Phone:

Observer 1: Frederic Martini

Observer 2:

Address: (UH Oceanography Affiliate)
5071 Hana Hwy
Haiku, HI 96708

Address:

Pilot 1: Dan Greeson, Steve Tottori

Pilot 2: Mark Drewery

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

Objectives:

All previous submersible dives took place in a canyon, to observe the habitat. This ROV dive took place outside of a canyon, but at a similar depth to the canyon dives. The purpose was to compare the habitats of the two areas.

335m at start, transit across slope toward deeper water. Landed at canyon edge - cobbly bottom and rock/coral sheets. At shallowest (315m) solid rock w/ little sediment. Fish diversity highest in this area. Then bottom went to coarse sand w/ scattered rocks, steady at 330m. Gradually converted to very fine sand with ripples and invert trails and traces. Continued for 1+ miles without change and with few fish, widely separated. Some drifting algae clumps but less abundant than within canyon.

Species List:

Please mark whether -single; -few (2-10); -many (11-100); -abundant (>100)
(e.g., Symphysanodon maunaloae-many)

Hollardia gosliniei-single
Pontinus macrocephalus-few
Emm. karnellai-few
Seriola dumerili-few
Gadella sp.-few
Symphysanodon maunaloae-many
Physiculus nigripinnis-few
Physiculus sp.-few
Gnathopsis-single
Conger oligoporus-single
Polymixia japonica-few
Synaphobranchus affinis-few
Chaunax umbrinus-few
Chrionema chryseres-few
Bathycongrus guttatus-few
Haliuta retifera-single
Chascanopsetta-single

MISSION EVALUATION:

Limitations, failures, or operational problems noted:

None

Recommendations for corrective action or improvement:

Digital still camera and digital video cameras would be helpful in obtaining high resolution images for species records.

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

Dive achieved its objectives

List specimens or samples collected on the mission.

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

_ Canyon & Scavenger Communities of the Main & Northwestern Hawaiian Islands

(project title)

held on__ 9/06/2003 _____(date) in the following way:

- a. CTD data by__ 9/06/2005 _____(date)
- b. voice transcripts, video, and still camera film by__ 9/06/2005 _____(date)
- c. other__ 9/06/2005 _____(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