

HAWAI'I UNDERSEA RESEARCH LABORATORY

QUICK LOOK REPORT DIVE: PV- 519

MISSION STATUS

Location: Bank 11

Latitude: N 28°52.0512

Longitude: W 179°34.565

Mission Date: Oct. 1, 2003

Duration: 6hrs 29m

Maximum Depth: 576m

Project Title: Reproductive Biology and Population Genetics of Hawaiian Precious Corals

Principal Investigator: Amy Baco-Taylor

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Observer 1: A. Baco-Taylor

Observer 2:

Address: WHOI Biology Dept.
MS#33, 214 Redfield
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Address:

Pilot 1: Terry Kerby

Pilot 2: Max Cremer

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

Objectives:

1. Locate precious corals
2. Sample for population genetics + reproductive biology

Observations, findings, etc:

There was a strong current on the descent. The submersible drifted to the north towards a wall. The submersible powered away to avoid the wall and landed on the bottom at 535 m. The substrate was a carbonate with a slight slope. Towards the end of the dive, there were basalt outcroppings.

Submersible landed in a MAJOR precious coral bed. There were numerous large gold coral trees, and pink coral was also very abundant. Reds were also present although less abundant. Many other octocorals were also abundant, particularly paramuricids. The boundaries of the bed were not found; the general sampling area was small because of the abundance of precious corals. The sub passed through a group of John Dorys on the descent. The dive was finished with a photo transect.

Species list:

Please mark whether S-single; F-Few (2-10); M-Many (11-100); A-Abundant (>100)

(e.g., *Symphysanodon maunaloae*-M)

- add rows as needed

John Dory -A	Grammicolepis brachiusculus - F	Ophiuroids- S
Squalus mitsukurii-F	Anthomastus - F	
Cookie-cutter shark -S	Galathaeids – M	
Armourhead -F	Other soft corals – M (Anthomastus, Siphonogorgia alexanderi)	
Beryx -F	Pseudopentaceros wheeleri- S	
Gerardia sp. - A	Eguchipsammia serpentina- S	
Pink corals - A	Sympagurus dofinei- S	
Red Coral - M	Micropyga tuberculata- F	
Clavularia grandiflora - F	Astropyga tuberculata- S	
Paramuricids - A	Tritonia sp- S	
Acanella sp. - M	Antipatharians- F	
Other Octocorals - A	Histocidaris variabilis- S	

MISSION EVALUATION:

Limitations, failures, or operational problems noted:

None.

Recommendations for corrective action or improvement:

None.

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

Excellent dive! Max will make a great pilot!

List specimens or samples collected on the mission.

Gerardia sp. – 16, Corallium secundum – 10, Red coral – 8, Anthomastus - 1

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

Precious corals
(project title)

held on 10/1/2003 (date) in the following way:

- a. CTD data by 10/ 01/2005 (date)
- b. voice transcripts, video, and still camera film by 10/01/2005 (date)
- c. other 10/ 01/2005 (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