HAWAII UNDERSEA RESEARCH LAB
QUICK LOOK REPORT MISSION NO. P4-080

MISSION STATUS

Location: Kailua-Kona (19-37.642 N 156-02.159 W)

Mission Date: 20 November 2002

Maximum Depth: 580 m

Project Title: Ecological Role and Faunal Associates of Abundant Hexactinellid Sponges on the Hawaiian Slope

Principal Investigator: Adele J Pile

Address:

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Observer 1: Adele J. Pile

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School of Biological Sciences (A08)
Sydney, NSW 2006
Australia

Observer 2: Kate Stuart

Address: The University of Sydney
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Scientific Data Acquired: Prepare an abstract outlining your objectives, techniques, findings, etc.

The primary goal of the dive was to revisit site 14 (N 19:37.742 W 156:02.048) at 437 m a large bed of the study organism, *Sericolophus hawaiicus*, where a majority of the experimental work last year was done. Upon arrival we found all of our settlement experiments in place. We located the transplant experiments and found that over 50% of the individuals were healthy. We positioned the current meter between the settlement and transplant experiments. The arrow is facing up slope at a heading of 056 (positioned at 10:14). We then collected the settlement experiment and were amazed to find the *S. hawaiicus* stalks covered with barnacles after only 1 year! There were no epiphytes growing on the PVC pipe which indicates that the stalks are the preferred settlement substrate for the barnacles. We then moved north of the marker to conduct random quadrats. Fourteen 0.25 m2 quadrats were randomly placed on the benthos and sponges enumerated by the observers. Sponges were classified as either dead, large, medium, small, and newly recruited. This is the only way to see the newly recruited sponges. We conducted 2 horizontal transects of 20 minutes duration at 460 and 480. We then collected 30 dead stalks at 440 m to be made into a settlement experiment to be deployed on the next dive.

Dive_____**P4-080**_

MISSION EVALUATION:

Limitations, failures, or operational problems noted:

There were no limitations, failures or operational problems

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.

The mission achieved all it's goals

List specimens or samples collected on the mission.

30 *Sericolophus hawaiicus* stalks with associated fauna

Dive P4-080

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

Ecological Role and Faunal Associates of Abundant Hexactinellid Sponges on the Hawaiian Slope (project title)

held on November 21 2002 in the following way:

a. CTD data by _____ (date)

b. voice transcripts, video, and still camera film by 20111109 (date)

c. other 20111109 (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