

HAWAII UNDERSEA RESEARCH LAB
QUICK LOOK REPORT MISSION NO. 483

MISSION STATUS

Location: Marker 14, Kailua Kona Coast, glass sponge gardens

Mission Date: 12/02/01

Maximum Depth: 550 m

Project Title: Ecological roles and faunal associates of abundant Hexactinellid sponges on the Hawaiian slope

Principal Investigator: Craig M. Young

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

Objectives:

- 1) Use Niskin bottles to take water samples (550, 500, 450, 400, 350, 300, 250, 200, 180, 160, 140, 120, 100, 20, 10, and 5 m) for analysis of picoplankton and silica.
- 2) Test a punchcore to be used later on for sampling the benthic infauna around and within the sponge beds.
- 3) Using the manipulator arm, transplant 10 sponges to an area above their depth range and 10 sponges within the sponge zone to determine if sponge survival is possible above the upper limits of their depth range.
- 4) Simultaneous sampling of water in the excurrent area of individual sponges and in the water column adjacent to the sponge to quantify natural foods of hexactinellids.

Dive 483

MISSION EVALUATION:

Limitations, failures, or operational problems noted:

One Niskin bottle did not fire.

During transplanting, it was difficult to re-plant the sponges in a natural position (these difficulties were anticipated).

Recommendations for corrective action or improvement:

No recommendations.

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

Mission was a great success. We accomplished more than we anticipated, transplanting 10 sponges to each site.

List specimens or samples collected on the mission.

2 *Sericolophus* sp. sponges

Dive _____

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 roles and faunal associates of abundant Hexactinellid sponges on the Hawaiian slope
_____ (project title)

held on November 2001 (date) in the following way:

- a. CTD data by November 2003 (date)
- b. voice transcripts, video, and still camera film by Nov. 2003 (date)
- c. other Nov. 2003 (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).

Bill Offenberg Principal Investigator