

## HAWAII UNDERSEA RESEARCH LABORATORY

### QUICK LOOK REPORT MISSION NO. P5-279

#### MISSION STATUS

**Location:** off Kailua-Kona, Hawaii - 019 36.1 N; 156 04.0 W

**Mission Date:** July 17, 1996

**Maximum Depth:** 1704m

**Project Title:** Reproductive Biology of Deep-Sea Animals

**Principal Investigator:** Craig M. Young

**Address:** Harbor Branch Oceanographic Institution (HBOI)  
5600 U.S. Hwy. 1 North  
Ft. Pierce, FL 34946

**Phone:** (407) 465-2400 x303

**Observers:** 1) Anna Metaxas, 2) Paul Tyler

**Addresses:** 1) as above  
2) Dept. of Oceanography  
University of Southampton  
Southampton Oceanography Centre  
Southampton, U.K.

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

Main objectives:

- 1) to collect Phrissocystis, the large sea urchin
- 2) to collect the white holothurian
- 3) video and observe the fauna on both sedimentary and rock seabed

All objectives were achieved. Both target species were collected in adequate numbers and we attempted to rear the larvae upon return to the lab. A small number of Phrissocystis embryos were reared under pressure to the 4-cell stage and ovulation was documented in the synallactid holothurian. Barnacles and sea anemone commensals of the sea urchin were prepared for later genetic analysis.

**MISSION EVALUATION:**

**Limitations, failures, or operational problems noted:**

Arm rotational problem. Otherwise OK.

**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.**

Absolutely - very successful. Everything required was accomplished.

**List specimens or samples collected on the mission.**

Phrissocystis - 8 individuals  
holothurians - 4 individuals  
video and photos

## 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

Reproductive Biology of Deep-Sea Animals (project title) held on July 17, 1996

(date) in the following way:

- a. CTD data by 7/18/96 (date)
- b. voice transcripts, video, and still camera film by 7/17/98 (date)
- c. other 7/17/98 (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).

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Principal Investigator