

HAWAII UNDERSEA RESEARCH LABORATORY  
QUICK LOOK REPORT MISSION NO. P5-080

## MISSION STATUS

Location: Off Kona, Hawaii  
Mission Date: July 13, 1988  
Maximum Depth: 1810 m  
Project Title: Reproduction of Abyssal Echinoderms  
Project Leader: Craig M. Young  
Address: Harbor Branch Oceanographic Institution  
5600 Old Dixie Highway  
Ft. Pierce, Florida 34946  
Phone: (407) 465-2400 ext. 303  
Observers: J. Lane Cameron, C. Young  
Address: same as above

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

The purpose of the dive was to collect deep-sea echinoids and asteroids for determining reproductive state and embryological studies. Animals were collected with the claw of the manipulator arm and placed in the front basket for transport to the surface. Three species of echinoid, four species of asteroid and two species of holothuroid were observed. All but one species of holothuroid were collected. It appears that sufficient numbers and diversity of echinoderms are present at this location, but the collection method needs refinement.

## MISSION EVALUATION:

Limitations, failures, or operational problems noted:

Inadequate apparatus for collection of specimens and transportation to surface.

Recommendations for corrective action or improvement:

Slight improvement in manipulator i.e. addition of clam scoop or cup scoop would help. Basket or bin at front could be a little larger and optimally be insulated and sealable at depth for transportation of abyssal animals through warmer waters.

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

The objectives of the first dive were met. First the animals we were hoping to find were present. We were able to collect them and bring them to the surface.

List specimens or samples collected on the mission.

All animals are presently unidentified.

echinoids	2 species
asteroids	4 species
holothuroids	1 species

## 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 "Reproduction of Abyssal Echinoderms" (project title) held on July 13, 1988 (date) in the following way:

- a. CTD data by None collected (date)
- b. voice transcripts, video, and still camera film by July 13, 1990 (date)
- c. other July 13, 1990 (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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Project Leader