

HAWAII UNDERSEA RESEARCH LABORATORY

QUICK LOOK REPORT MISSION NO. P5-280

MISSION STATUS

Location: off Kailua-Kona, Hawaii - 019 37.9 N; 156 02.1 W

Mission Date: July 18, 1996

Maximum Depth: 585m

Project Title: Reproductive Biology of Deep-Sea Animals

Principal Investigator: Craig M. Young

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Observers: 1) C.M. Young, 2) Elsa Vazquez

Addresses: 1) HBOI
2) HBOI

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

The objectives of this dive were to locate a large bed of the hexactinellid sponge Hyalonema which was first observed in 1992, to document currents near the bed, to collect voucher specimens of Hyalonema and other hexactinellids, to collect vouchers of any echinoderms not previously collected, and to obtain Aspidodiadema urchins for embryological work. The bed was not located during a 2.5 mile long run to the north at the correct bathymetric contour, though one voucher specimen was collected. Several echinoderms were videotaped and collected. In the laboratory, the attempt to spawn Aspidodiadema yielded 2 good females but no ripe males. An unusual sea anemone associate of Hyalonema was discovered, as well as shrimp in a very large individual of Euplectella. Vouchers were prepared for later taxonomic study and a small stylasterine coral was prepared for phylogenetic analysis.

MISSION EVALUATION:

Limitations, failures, or operational problems noted:

None.

Recommendations for corrective action or improvement:

No corrective action necessary - a perfect dive.

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

With the exception of locating the sponge bed, all objectives were achieved.

List specimens or samples collected on the mission.

- 1 synallactid holothurian
- 1 Phormosoma sp.
- 1 Sperosoma sp.
- 2 goniasterid sea stars
- 1 ophiasterid sea star
- 1 Euplectella with shrimp associates
- 1 Hyalonema with actinian associates
- 1 piece Stylaster
- 2 cidaroid echinoids
- 5 Aspidodiadema arcitum
- 1 Plinthaster-like sea star

DATA RELEASE

Dive P5-280

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 18, 1996

(date) in the following way:

- a. CTD data by 7/19/96 (date)
- b. voice transcripts, video, and still camera film by 7/18/98 (date)
- c. other 7/18/98 (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).

Principal Investigator