# HAWAII UNDERSEA RESEARCH LABORATORY QUICK LOOK REPORT MISSION NO. P5-299

#### **MISSION STATUS**

Location: West of Oahu

Mission Date: September 17, 1996

Maximum Depth: 1493 m.

**Project Title:** Dispersal and Population Genetics of Seamount Benthos

**Principal Investigator:** Scott France / Lauren Mullineaux

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

We are measuring the genetic variation of deep-sea corals to quantify gene flow and estimate larval dispersal among disjunct habitats (seamounts and island slopes). Following our series of 1993 dives and subsequent lab work, we have identified several species as the focus of our investigations. Our objectives for this dive were to collect specimens from a depth range of 900-1100 m. Corals were collected with the manipulators and placed in a collection box with a lid (an attempt to reduce the effects of wash and temperature change during recovery. We found several individuals of one of our target species, and a number of individuals from two other target species. We were still in areas with a lot of sediment, which is not ideal for corals. Some areas where sedimentary rock had broken away to form rock ledges created suitable habitat.

#### **MISSION EVALUATION:**

Limitations, failures, or operational problems noted:

None

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.

Yes, I consider this dive a success. We found several specimens of Corallium, which was one of our target species, and a few specimens of two other target species\_(Narella and Lepidisis). We had expected to find more of each species, but they just weren't there. We got some excellent footage and photographs of the corals we collected, as well as some unique species (fishes, sponges, crabs).

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

OAD101-1: Corallium sp. pink coral OAD102-1: Lepidisis sp. bamboo coral

OAD103-1: Corallium sp. pink coral with ophiuroid

OAD104-1: yellow gorgonian

OAD104-2: Lepidisis sp. bamboo coral with anemone

OAD104-3: Lepidisis sp. bamboo coral with anemone

OAD104-4: Corallium sp. pink coral

OAD104-5: yellow gorgonian

OAD105-1: yellow gorgonian with ophiuroid

OAD106-1: yellow gorgonian OAD107-1: Corallium sp. pink coral

OAD108-1: Corallium sp. pink coral

OAD109-1: white scleractinian coral

OAD110-1: Narella sp. primnoid coral with ophiuroid

## 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.	
hereby release the data archived by HURL for public consumption following mission	
Dispersal and Population Genetics of Seamount Benthos (project title)	
neld on 9-17-96 (date) in the following way:	
a. CTD data by <u>9-17-96</u> (date)	
b. voice transcripts, video, and still camera film by 9-17-98 (date)	
c. other <u>9-17-98</u> (date)	
d. I will give my written consent to individuals wishing to use these data prior the above dates depending on the nature of the request(s).	to
Principal Investigator	