# HAWAII UNDERSEA RESEARCH LABORATORY QUICK LOOK REPORT MISSION NO. P5-303

## **MISSION STATUS**

Location: Off Kona, Hawaii

Mission Date: September 22, 1996

Maximum Depth: 1305 m.

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

Principal Investigator: Scott France / Lauren Mullineaux

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Observer 1:

Ewann Agenbroad

Observer 2: Ron Etter

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as above

Address: Univ. Mass., Boston

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). Our objective on this dive was to collect corals for our analysis at depths between 1300-900m. Coral colonies were sampled directly using the *Pisces V* manipulators. Our dive began at 1300m and we worked our way upslope to 900m. The slope was often very steep, heavily sedimented with basalt cobble and boulders. We found patches of the primnoid coral Narella in several places, but this area was practically devoid of any other coral species. There were anemones, fish and shrimp and holothurian sea cucumbers. We collected 11 individuals of Narella sp.

#### **MISSION EVALUATION:**

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

The only shortcoming is the size of the collection box. We could collect more samples if it were larger. Crates are not acceptable for this purpose because they need to eliminate flow-through to keep the samples as cold as possible.

## Recommendations for corrective action or improvement:

Build a larger collection box, or tell us the weight requirements for the sampling basket and we can supply our own.

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

The mission was definitely successful. Although we did not find all of the species we were hoping for, we successfully sampled these we did find.

List specimens or samples collected on the mission.

Narella sp. - 9 individuals primnoid sp. - 2 individuals hormathiid anemones (Venus Fly Trap) - 2 individuals Epitonium snail - 1 individual Coleus snail - 1 individual

# 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 ap	propriate sta	atement below and sig	in this form.		
I hereby rele	ase the data	archived by HURL for	or public con	sumption follo	wing mission
Dispe	ersal and Po	pulation Genetics of S	eamount Ben	thos	_(project title)
held on	9-22-96	(dat	e) in the follo	owing way:	
a. CTD	data by	9-22-96	(dat	e)	
b. voice transcripts, video, and still camera film by 9-22-98 (date					
c. othe	r	9-22-98	(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 Inve	estigator