

HAWAII UNDERSEA RESEARCH LABORATORY
QUICK LOOK REPORT MISSION NO. P5-301

MISSION STATUS

Location: SW of Keanapapa Pt., Lanai

Mission Date: September 20, 1996

Maximum Depth: 1225 m.

Project Title: Dispersal and Population Genetics of Seamount Benthos

Principal Investigator: Scott France / Lauren Mullineaux

Address: Woods Hole Oceanographic Institution
Biology Department
Woods Hole, MA 02543

Phone: (508)289-2898

Observer 1: Scott France

Observer 2: Ewann Agenbroad

Address: as above

Address: as above

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 analyses at depths between 1200-900 m. Coral colonies were sampled directly using the *Pisces V* manipulator arms. Our dive track took us up the slope of an ancient submerged carbonate reef. We collected many coral colonies at 19 different stations.

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.

This mission was highly successful. We collected many samples of our target species, and were able to photo and video document the colonies *in situ*.

List specimens or samples collected on the mission.

Narella sp. - 11 specimens
Lepidisis olapa - 8 specimens
Unidentified yellow octocoral - 1 specimen
Unidentified primnoid octocorals - 2 specimens
Corallium regale - 4 specimens
Unidentified pennatulaceans - 2 specimens
Unidentified red-planar octocorals - 4 specimens
"Suberin" purple octocoral - 3 specimens
Bottebrush octocoral gold - 1 specimen
Enallopsammia rostrata - 1 specimen

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

Dispersal and Population Genetics of Seamount Benthos (project title)

held on 9-20-96 (date) in the following way:

- a. CTD data by 9-20-96 (date)
- b. voice transcripts, video, and still camera film by 9-20-98 (date)
- c. other 9-20-98 (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