

HAWAII UNDERSEA RESEARCH LABORATORY
QUICK LOOK REPORT MISSION NO. P5-251

MISSION STATUS

Location: Penguin Bank, Molokai
Mission Date: October 4, 1993
Maximum Depth: 1865 meters
Project Title: Carbonate Geochemistry
Principal Investigator: Fred T. Mackenzie
Address: University of Hawaii
Dept. of Oceanography
1000 Pope Road
Honolulu, HI 96822
Phone: (808) 956-6344
Observers: Miriam A. Bertram and Rolf Arvidson
Addresses: Same as above

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

Operational Objectives: To recover experimental arrays from 1865 and 1300 meters; To collect sediment samples at both depths, and rocks; To collect animals for verification of video identifications.

Scientific Objectives: Compare CaCO_3 mineral dissolution on plates deployed at 1865 meters for 25 and 12 months (12 month experiment retrieved in 1992); Preserve and stain one set of plates from 1300 meters to examine biological contributions to mineral dissolution/preservation/ppt.; and compare effects of simply rinsing and drying with that of fixing with formaldehyde (Second experimental array at 1300 meters was not fixed).

Findings: To be determined.

MISSION EVALUATION:

Limitations, failures, or operational problems noted:

None.

Recommendations for corrective action or improvement:

N/A.

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

Yes. All experimental arrays were located and retrieved.

List specimens or samples collected on the mission.

- 2 sediment samples (to Johanna Resig)
- 3 experimental arrays
- 1 transponder
- 1 rock
- several animals (to HURL)

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 Carbonate Geochemistry (project title) held on October 4, 1993 (date) in the following way:

- a. CTD data by October 1995 (date)
- b. voice transcripts, video, and still camera film by October 1995 (date)
- c. other October 1995 (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