

**HAWAII UNDERSEA RESEARCH LABORATORY**  
**QUICK LOOK REPORT MISSION NO. P5-318**

**MISSION STATUS**

**Location:** Kona Slope

**Mission Date:** October 13, 1996

**Maximum Depth:** 1870 m. (1600-1900 m)

**Project Title:** Age Dependent Mixing of Deep-sea Sediments

**Principal Investigator:** Craig R. Smith

**Address:** Oceanography Dept.  
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Honolulu, HI 96822

**Phone:** (808)956-8623

**Observer 1:** A. Baco

**Observer 2:** K. Weng

**Address:** as above

**Address:** as above

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

We collect animals and sediment samples to evaluate the occurrence and mechanisms of radioisotope dependent mixing in deep-sea sediments. We collected 2 box cores, 4 tube cores, 3 urchins, 3 holothurians and 1 crinoid, as well as 6 slurp samples of surface floc. These will be analyzed for radionuclides.

**MISSION EVALUATION:**

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

Difficulties with tube cores (valves on top did not close).

**Recommendations for corrective action or improvement:**

Fill tube cores with water before dive.

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

Yes, although we got fewer core samples than we had hoped.

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

- 2 box cores
- 3 tube cores
- 3 large urchins (? Phrissocystis)
- 4 unidentified holothurians (prob. Paelopatides, Mesothuria, and Laetmogone)
- 5 samples of surface flock.

## 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

Age Dependent Mixing (project title)

held on 10/13/96 (date) in the following way:

- a. CTD data by \_\_\_\_\_ (date)
- b. voice transcripts, video, and still camera film by 10/13/98 (date)
- c. other \_\_\_\_\_ (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