

HAWAII UNDERSEA RESEARCH LABORATORY
QUICK LOOK REPORT MISSION NO. P5-131

MISSION STATUS

Location: Alenuihaha Channel, Kohala Slope
Mission Date: 21 November 1989
Maximum Depth: 1510 meters
Project Title: Hawaii Deep Water Cable Program
Project Leader: Frank Mchale
Address:

Phone:

Observers: Rex Miyashiro
Address: Makai Range Pier
Makapuu pt.
Waimanalo, HI 96795

Phone: 259-8871

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

The purpose of this dive is to survey the way the HDWC serogate power cable was laid. The cable was supposed to be laid with low tension and on relatively smooth terrain. Any deviation observed should be video recorded and the tension measured. The data will be compared with the computers records to determine if the cable was laid according to Makai's (MOE) control system.

MISSION EVALUATION:

Limitations, failures, or operational problems noted:

The manipulator arm severely lacks dexterity. The tensiometer was not designed properly. The hydraulic system is not automated as it should be. The video cameras do not have a wide enough view.

Recommendations for corrective action or improvement:

Wide angle lenses for video camera. Alternate hydraulic pump motor.

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 accomplished. The physically undesirable characteristics of the cable were documented.

List specimens or samples collected on the mission.

- 1) Video recordings
- 2) Tension Measurements

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 _____
(project title) held on _____ (date) in the
following way:

- a. CTD data by _____ (date)
- b. voice transcripts, video, and still camera film
by _____ (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).

Project Leader
Frank Mchale