

**HAWAI'I UNDERSEA RESEARCH LABORATORY**

**QUICK LOOK REPORT**

**DIVE: P5-731**

**MISSION STATUS**

**Location: Penguin Bank-Third Finger**

**Latitude: 20 55.9°N**

**Longitude: 157 32°W**

**Mission Date: March 25, 2009**

**Duration: 4 hours 42 mins**

**Maximum Depth: 153m**

**Project Title: Deep Seaweed Photosynthesis Research**

**Principal Investigator: Karla McDermid/ John Runcie**

**Address:** Marine Science Dept.  
University of Hawaii - Hilo  
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**Phone:** (808) 933-3906

**Observer 1: John Runcie**  
**Address:** University of Sydney  
Sydney, Australia

**Observer 2: Judy Walker**  
**Address: UH-Hilo**

**Pilot 1: Terry Kerby**

**Pilot 2: none**

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

Objectives:

To collect macroalgal specimens for pigment analyses and taxonomic identification.

To measure photosynthetically active radiation at various depths in the water column and at collection sites.

Observations, findings, etc:

3.6 uE at 140m , 15:48

Species list:

ALGAE

*Halimeda*

Red crusts

Red blades with dichotomous branching

*Ulva*

*Peysonellia*

*Anadyomene*

*Distromium*

*Kallymenia?*

ECHINODERMS

large stands of urchins at 85 m maybe 30 individuals per stand.

CNIDARIA

Brightly coloured fluorescent orange and green "*Fungia*" coral, occasional bright orange objects 10 mm long or so, especially around urchin stands

**MISSION EVALUATION:**

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

**Recommendations for corrective action or improvement:**

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

Yes, we met our objectives.

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

Alga specimens are same as observed species (see above). Voucher numbers KM 10309-10350

## 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 3/25/09 (date) in the following way:

- a. CTD data by 3/2011 (date)
- b. video and images by 3/2011 (date)
- c. other Licor Light meter, PAM 3/2011 (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).

signed Karla J. McDermid Principal Investigator