HAWAI'I UNDERSEA RESEARCH LABORATORY

QUICK LOOK REPORT (QLR) for *Pisces* and *RCV-150*

DIVE: R-427

(*Extend length of sections as needed/appropriate*)

MISSION STATUS

Location: South of Pearl Harbor, Oahu, Hawaii

Latitude: 21° 12.75' N **Longitude:** 157° 57.30' W

Mission Date: 11Mar09 **Duration:** 2 hours 0 mins

Maximum Depth: 525 meters

Project Title: Hawaii Undersea Military Munitions Assessment (HUMMA)

Principal Investigator: Margo Edwards

Address: University of Hawaii

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Honolulu, HI 96825

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Observer 1: Margo Edwards **Observer 2:** N/A

Address: Same as above **Address:**

Pilot 1: D. Greeson **Pilot 2:** P. Townsend

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

Objectives: Surveying a long and narrow speckle trail for DMMs. Based on accumulating evidence, I suspect that this trail is mostly made up of ammo boxes and depth charges. If the RCV-150 can confirm this, then we won't send the submersibles to this trail for surveying or sampling.

For tonight's experiment, we want to see if the ROV can follow a narrow speckle trail to the northeast. A primary concern is the strong current that was affecting the submersibles earlier today and its potential impact on ROV operations.

QLR continued

Observations, findings, etc:

The RCV-150 dive accomplished its purpose, confirming the presence of ammo boxes and other small pieces of ordnance along this speckle trail. For future nighttime events, the surface current was pushing the ship to the south, and the bottom current was pushing the ROV to the east, so we saw the trail of speckles in the port side of the sonar display and didn't get to identify as many of them as I had hoped.

The transect across the speckle field took two hours and visibility was low because of all of the sediment kicked up by the current. I once again decided to terminate the ROV tow once we had crossed the primary speckle trail and shortened the evening program.

Observed Species list:

To be completed upon review of the video by a biologist.

MISSION EVALUATION:

Limitations, failures, or operational problems noted:

None.

Recommendations for corrective action or improvement:

For future RCV-150 tows across narrow speckle trails, it will make more sense to slalom down the line, crossing it on occasion, rather than try to run parallel to it and potentially miss targets due to predominant surface or bottom currents.

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 achieved its purpose. This long, narrow speckle trail does not appear to include chemical munitions and we will therefore concentrate on other areas for the next set of submersible dives.

List specimens or samples collected on the mission:

No samples or specimens collected.

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):

_Hawaii Undersea Military Munitions Assessment (HUMMA)_____

_____

Held on ___12Mar09___ (date) in the following way:

a. CTD data by ____31Dec09_____ (date)

b. Video and images by _____31Dec09_____ (date)

c. Other _____31Dec09_____ _ (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).

Margo H. Edwards, electronic signature dated 12Mar09
Principal Investigator