HAWAI'I UNDERSEA RESEARCH LABORATORY
QUICK LOOK REPORT
DIVE: P5-791

MISSION STATUS

Location: Hawaii Undersea Military Munitions Assessment Study Area

Latitude: [redacted] **Longitude:** [redacted]

Mission Date: 28 Nov 2012 **Duration: 6** hours, 34 mins

Maximum Depth: 586m

Project Title: HUMMA-III Phase 1 Field Program:
Submersible and Remote Camera Operations, Mass Spectrometer Transects

Principal Investigator: Margo Edwards

Address: Hawaii Institute of Geophysics and Planetology
School of Ocean and Earth Science and Technology
University of Hawaii
1680 East-West Road, POST Building Room #105
Honolulu, Hawaii 96822
Phone: (808) 956-5232

Observer 1: JC King
Address: Office Assistant Dept. Sec. Army

Observer 2: Mike Van Woerkom
Address: Environet, Inc.

Pilot 1: Max Cremer **Pilot 2:** N/A

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

Objectives: This will probably be the most challenging dive of the program in terms of sampling – we will try to collect two full suites of samples at two different significantly breached munitions site. Pisces V will collect a full suite of samples at two significantly breached munitions sites. The full suite for the first site is 20 sediment scoops (including additional samples at the 2m mark and a set of "before sampling" and "after sampling" paired samples), one box core and one shrimp trap. The full suite for the second site is 21 sediment scoops (including additional samples at the 2m mark and a set of "before sampling" and "after sampling" paired samples), one box core and one shrimp trap.

Dive Summary: The sub was launched about 0813L and was on bottom by 0848L. Pisces V landed where several M47 munitions were within visual range and thus was able to locate the first sample site very quickly. Sampling began at 0907L and was completed at 1127L. The only samples not recovered at this location, where Marker 27 was deployed, were the "before" and "after" sediment scoops recommended yesterday. Pisces V headed southwest and by 1146 had located a second sample site. By this time, the bottom current, which had been gentle during the morning, had increased in velocity. This change in the environmental conditions affected the

ability of the sub to position itself and slowed sampling. By 1500 the second sample suite had been collected except for one sample at 2 meters distance from the nose, however, the Pisces V was low on power due to the extensive use of the manipulator arm and had to return to the surface. The paired "before" and "after" sediment samples were successfully collected at Marker 26. Rebaiting the shrimp traps with a new configuration was highly successful in collecting a greater number of shrimp per trap.

MISSION EVALUATION:

Limitations, failures, or operational problems noted:

The "before" and "after" samples were not collected at Marker 27. At Marker 26, one sample was not collected at a distance 2 meters from the nose of the munitions casings because of power limitations.

Recommendations for corrective action or improvement:

None.

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

This dive achieved its purpose.

List specimens or samples collected on the mission.

P5-791	Sediment	Shrimp*	Box Core	Brisingid	Water
Daily Samples	38	6	2	0	1
Total Samples	99	24	8	2	2

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. video and images 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).

_____Principal Investigator