HAWAI'I UNDERSEA RESEARCH LABORATORY
QUICK LOOK REPORT
DIVE: P5-787

MISSION STATUS

Location: Hawaii Undersea Military Munitions Assessment Study Area

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

Mission Date: 24 Nov 2012 **Duration:** **7** hours, 0 mins

Maximum Depth: 565m

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

Principal Investigator: Margo Edwards

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Observer 1: Mike Knudsen
Address: Edgewood Chemical Biological Center

Observer 2: Lukas Shield
Address: Environet, Inc.

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

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

Objectives: Pisces V will collect a full suite of samples near M47 munitions (preferably one that is significantly breached). The Pisces IV will pick up the time-lapse camera and deploy it near M47 munitions in Target Cluster B for a four-day time-lapse photographic record of behavior of biota around DMM. If time permits, both subs will undertake reconnaissance surveys between Target Cluster B and Target Cluster C.

Dive Summary: The sub was launched about 0815L and was on bottom by 0851L. In the water column Max was able to see the strobe flashing on the WHOI time-lapse camera, so he proceeded to find it after housekeeping and established the position with surface sub tracking. By 1000 Pisces V had located a breached munitions casing for sampling. All sampling was completed by 1300 and all of the sampling goals were achieved. During deployment of the shrimp trap, a six-gill shark attacked the basket from underneath, presumably lured by the same bait that was attracting the shrimp. Upon completion of sampling and housekeeping, the Pisces V began the video transect to the west, just reaching Target Cluster C when it was time to leave bottom.

MISSION EVALUATION:

Limitations, failures, or operational problems noted:

1. The modified sediment scoops, with one hole drilled in the T-handle caps, did not improve the ability of ECBC personnel to remove the lids, so JC suggested using a drill to put a hole in the clear-plastic tubing. This allowed water to be decanted effectively from the scoops, but it did not help with removing the tight lids.
2. We learned after Pisces V had departed for Dive P5-788 that no marker was deployed for P5-787 and none was loaded for P5-788.

Recommendations for corrective action or improvement:

1. Future dive sediment samplers will have two holes with this configuration, one in the cap and one in the side, each mounted with a screw that will be removed in the secured glove box when the scoops get back on deck.
2. We need to deploy a marker at every site in the future

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.

P5-787	Sediment	Shrimp*	Box Core	Brisingid	Water
Daily Samples	13	3	1	1	0
Total Samples	23	9	3	2	0

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