

HAWAI'I UNDERSEA RESEARCH LABORATORY

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

DIVE: P5-718

(Extend length of sections as needed/appropriate)

MISSION STATUS

Location: South Oahu

Latitude: [REDACTED]

Longitude: [REDACTED]

Mission Date: 3/5/2009

Duration: 8 hours

Maximum Depth: 521 meters

Project Title: HUMMA

Principal Investigator: Margo Edwards

Address: _____

Phone: _____

Observer 1: Christopher Kelley

Observer 2: Kathryn MacDonald

Address: HURL
University of Hawaii
Honolulu, Hawaii

Address: SOEST
University of Hawaii
Honolulu, HI

Pilot 1: Max Cremer

Pilot 2: _____

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

Objectives:

The purpose of this dive was to collect water and sediment samples to ascertain contamination by the disposal of chemical munitions. This site was chosen as a 'clean' site to represent dredge spoil background. A total of eleven samples were to be taken at the first site, four water samples, and six sediment samples with a duplicate at one location. The second site was to have seven samples total, six sediment with a duplicate at one location. The sampling locations were randomly generated prior to the dive. The sites were to be chosen based on distance from targets on the radar, an attempt was to be made

to have a clear radar screen with an 80m radius. The second site was to be 100 to 200m from the first site.

Observations, findings, etc:

A control site was identified with a clear sonar for 80m, however, the mechanical arm was not operational. Decision was made by the PI to continue on with a survey dive. The following were sighted throughout the dive;

Five large bombs (500-1000lb) at three different locations.

A large wing fuel tank.

Smaller cylinders, one ringed, one open and one hollow.

Three cylinders fitting the description of a chemical munitions.

A large entanglement hazard was noted for avoidance by subsequent dives.

Part of an airplane fuselage.

Field of cluster bombs.

Two fields of cube shaped boxes, some corroded enough to see the shells that filled them.

White/grey painted bomb with a circular fin and packing rings, possible chemical munition.

Observed Species list:

Cnidarians: cerianthid orange or anemone, tubulariid hydrozoan, Monobrachium sp (misidentified on video as *Corymorpha* sp), *Virgularia* sp (identified on video as *Funiculina*-like sp), *Kophobelemnion stelliferum*, 2 species of hormathiid anemones (sp 5 and small orange one with brown textured stalk), *Gardineria hawaiiensis*

Sponges: *Regadrella* sp 1, *Sericolophus hawaiiicus*

Echinoderms:

Seastars: *Brissinga panopla*, *Brissinga alberti*, *Novodinia pacifica*?

Sea urchins: *Aspidodiadema hawaiiensis*, *Stereocidarid hawaiiensis*, *Histocidarid variabilis*, *Caenopedina pulchella*

Crinoids: comatulid brown, *Antedon* sp

Ophiroids: gorgonocephalid

Crustaceans: *Paramumida hawaiiensis*, *Sympagurus dofleini*, *Heterocarpus ensifer*, *Heterocarpus laevigatus*?, *Plesionika* sp, unidentified shrimp

Mollusks: *Octopus* sp

Fishes: *Ijimaia plicatellus*, *Coelorinchus aratum*, *Malacocephalus laevis* (mis-identified on video as *Ventrifossa atherodon*), *Ventrifossa atherodon* (mis-identified on video as *Nezumia* sp), *Plesiobatis daviesi*, *Synagrops argyrea*, *Chlorophthalmus proridens*, *Synagrops japonicus*, *Satyrichthys hians*, *Satyrichthys engyceros*, *Setarches guentheri*, *Polymixia berndti*, *Squalus mitsukurii*, *Stethopristis eos*, *Chascanopsetta crumenalis*

MISSION EVALUATION:

Limitations, failures, or operational problems noted:

Mechanical arm failed, which prevented the primary purpose of the mission.

Recommendations for corrective action or improvement:

None, the operation crew immediately started working on the sub as soon as it arrived on deck.

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 did not achieve its original purpose, it was however very useful to the study as a survey dive.

List specimens or samples collected on the mission:

None

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 3/4/09 (date) in the following way:

- a. CTD data by 3/4/11 (date)
- b. Video and images by 3/4/11 (date)
- c. Other 3/4/11 (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