HAWAI'I UNDERSEA RESEARCH LABORATORY

QUICK LOOK REPORT
DIVE: P4-152

MISSION STATUS

Location: Protected

Latitude: ° **Longitude:** °

Mission Date: 8/7/2005 **Duration: 5** hours **23** mins

Maximum Depth: 409m

Project Title: Japanese Midget Sub 2005 Expedition

Principal Investigator: Hans Van Tilburg

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Honolulu, HI 96825

Phone: **(808)397-2404 ext.264**

Observer 1: Kelly Gleason **Observer 2: Dave Conlin**

Address: NOAA NMSP Pacific Islands Region
6600 Kalaniana'ole Hwy, Suite 302
Honolulu, HI 96825

Address: NPS SRC
P.O. Box 728
Santa Fe, NM 87505-0728

Pilot 1: Max Cremer **Pilot 2:**

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

Objectives:

Deploy sealed environmental probe near submarine for record of dissolved oxygen, temperature, ph, salinity/conductivity and oxidation reduction potential. A second objective of this dive was to conduct corrosion potential measurements on the exterior hull of the submarine to determine the condition of the hull metal and general integrity of the midget sub in the marine environment.

Observations, findings, etc:

CTD Probe was successfully deployed next to a rock near the midget sub site and will be retrieved in 24 hours. Began corrosion work on starboard side of the hull, then switched to work on the port side due to difficulty of conditions (current). Took approximately 45 corrosion readings at the site, which were comparative to the readings taken at the USS *Arizona* shipwreck site.

Species list:

MISSION EVALUATION:

Limitations, failures, or operational problems noted:

We had set up the corrosion study equipment (GMC probe) intending to survey on the starboard side. When we got to the bottom, there was too much current on the starboard side and so switching to port was logistically difficult. We were able to figure out how to make it work with some adjustments. It was difficult to get a grounding on the midget sub because it was so brittle.

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.

Yes. We accomplished everything we had hoped to accomplish, and pilot made all of the necessary adjustments due to conditions on the bottom.

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_____(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