

**HAWAI'I UNDERSEA RESEARCH LABORATORY**

**QUICK LOOK REPORT**

**DIVE: P5-604**

**MISSION STATUS**

**Location:** adjacent SE sector Pearl Harbor Defensive Sea Area

**Latitude:** [REDACTED]

**Longitude:** [REDACTED]

**Mission Date:** 12/09/04

**Duration:** 5 hours 01 mins

**Maximum Depth:** 348m

**Project Title:** NOAA/HURL/NPS maritime heritage survey Pearl Harbor entrance

**Principal Investigator:** Hans Van Tilburg

**Address:** NOAA NMSP Pacific Region  
6600 Kalaniana'ole hwy suite 302  
Honolulu HI 96825

**Phone:** (808) 397-2404 x264

**Observer 1:** Hans Van Tilburg

**Observer 2:** Kelly Gleason

**Address:** NOAA NMSP Pacific Region  
6600 Kalaniana'ole hwy suite 302  
Honolulu HI 96825

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**Pilot 1:** Max Cremer

**Pilot 2:**

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

Objectives: Conduct non-invasive ground truth survey of side scan sonar targets and complete video and sonar documentation of vessel/aircraft sites, assisting with maritime heritage inventory within Oahu Defensive Sea Area/Pearl Harbor National Landmark. Target site(s) possible wreck of US Navy PD-1 early flying boats. Also previously located landing craft and other vessels in vicinity.

Observations, findings, etc:

Data (digital still and video data, sonar scans, depth and position data, CTD data) gathered on two US Navy PD-1 flying boat crash sites, lost dates unknown. P5 drops to bottom and conducts search for target site. P5 survey of PD-1 site #1 with P4. Not the same aircraft as seen by HURL in 2003. Pending confirmation of site identity via hull squadron insignia and construction design elements. Aft section of PD-1 missing. Complete survey not possible due to entanglement/lines attached to aft wreckage. Subs then move south in search of 2003 "IP9" target. Encounter area of artillery shells. Subs then split up and P5 moves to large barge, does over-flight for video survey. P5 then moves east to ground truth side scan sonar targets and reported aircraft wreck sites from NPS 1990 ROV survey. Debris fields encountered. Large artillery shells encountered. Dredge spoils and depth charges encountered. Truck located. Targets from 1990 ROV survey not located.

Species list:

Sites investigated include:

- 1) large 40m X 18m barge
- 2) PD-1 aircraft site (probable)
- 3) various UXO
- 4) truck

**MISSION EVALUATION:**

**Limitations, failures, or operational problems noted:**

Tritech SeaKing sonar on Pisces V not functioning properly, not usable for sonar scans and mapping on the bottom..

**Recommendations for corrective action or improvement:**

Thorough systems testing prior to working dives

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

We expected to be able to use sonar to locate targets (aircraft) from 1990 ROV survey, but not possible. Did collect data from several sites. Search function limited this dive on P5.

**List specimens or samples collected on the mission.**

Non-invasive (non-excavation) survey

## 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 NOAA/HURL/NPS maritime heritage survey Pearl Harbor entrance

held on 12/10/04 (date) in the following way:

- a. CTD data by 12/10/06 (date)
- b. video and images by 12/10/06 (date)
- c. other 12/10/06 (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).

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Principal Investigator