

HAWAI'I UNDERSEA RESEARCH LABORATORY
QUICK LOOK REPORT
PISCES V

MISSION STATUS

Location: East of Moku Manu Island

Latitude: 21° 29.225 N

Longitude: 157° 41.675 W

Mission Date: August 26, 2013

Duration: 6 hours

Maximum Depth: 193 m

Project Title: Acoustic Listening Station Retrieval, Mesophotic Reef Fish Surveys

Principal Investigator: Frank Parrish, NOAA Fisheries

Address: Dole St, Honolulu, HI 96822

Phone: 808-944-2181

Observer 1: Raymond Boland
Address:

Observer 2: Frank Parrish

Pilot 1: Terry Kerby

Pilot 2:

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

Objectives:

The dive was conducted to search for acoustic listening stations, and if present: retrieve them. In addition mesophotic fish surveys were also planned between 80-110 meters.

Observations, findings, etc:

After about an hour of searching, the first acoustic listening site was located. The equipment was gone and the release had apparently worked correctly as only the bottom weights were found at a depth of 132 m. The sub then moved upslope to conduct a mesophotic fish survey at 110 m roughly to the south. At the end of this first transect, a vintage World War 2 aircraft wreck site (and grave site) was nearby and we then investigated that. We then conducted a second mesophotic fish survey at 100 m and second transect at 110 m roughly to the south, south east. We were then close to the second acoustic listening station site. We searched for roughly an hour and eventually located the bottom weights of that site, but no listening equipment. We then conducted a final mesophotic fish count at 110 m.

Species list:

Fishes: *Chromis struhsakeri*, *Luzonichthys earlei*, *Xyrichtys woodi*, *Pseudanthias thompsoni*, *Pseudanthias hawaiiensis*, *Pseudanthias bicolor*, *Holanthias fuscipinnis*, *Genicanthus personatus*, *Apolemivhthys arcuatus*, *Lutjanus kasmira*, *Chaetodon fremblii*, *Chaetodon kenii*, , *Chaetodon miliaris*, *Parupeneus multifasciatus*, *Naso hexacanthus*, *Naso unicornus*, *Chromis verater*, *Pristipomoides filamentosus*, *Gymnothorax nudivomer*, *Heinochus diphreustes*, *Centropyge potteri*, *Mulloidichthys vanicolensis*, *Sufflamen fraenatus*, *Sphyraena lewini*, *Epinephalus quernus*, *Dasyatis lata*, *Naso brevirostris*, *Torquiner florealis*, *Arothorn hispidus*, *Canthigaster cornata*, *Zanclus cornutus*, *Acanthurus thompsoni*, *Scorpaenopsis cacopsis*, *Plagiotremus ewaensis*, *Oxychelinus bimaculatus*, *Naso brevirostris*, *Anampses chrysocephalus*, and *Forcipiger flavissimus*.

Cnidarians: *Lepotseris* sp.

Echinoderms: *Stichopus* sp.

Other Invertebrates:

MISSION EVALUATION:

Limitations, failures, or operational problems noted:

None

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, in all aspects.

List specimens or samples collected on the mission.

No samples were collected.

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