

HAWAI'I UNDERSEA RESEARCH LABORATORY

**QUICK LOOK REPORT
DIVE: PV-705**

MISSION STATUS

Location: Cross Seamount

Latitude: 18° 43.258

Longitude: 158° 15.654

Mission Date: 11-28-2007

Duration: 8 hours

Maximum Depth: 408 m

Project Title: Grammatonotus sp. validation study

Principal Investigator: Robert Moffitt

Address:

Pacific Islands Fisheries Science Center
2570 Dole Street
Honolulu Hawaii, 96822

Phone: 808-983-5391

Observer 1: Frank Parrish

Observer 2: Sean Wiggins

Address:

Same as above

Address: Scripps Institute of Oceanography

Pilot 1: Max Cremer

Pilot 2:

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

Objectives:

The objective was to collect *Grammatonotus* sp. fish for taxonomic study and further develop a methodology for collection of other cryptic species that can not be collected using conventional fishing techniques. A rotnone dispensing container and a suction collector was fitted to the front basket of the sub. *Grammatonotus* sp.were located and rotnone injected in the holes to flush and kill the fish and they were then collected with the suction pump.

Observations, findings, etc:

Few groups of *Grammatonotus* were found, only individuals, making collections slow. The bottom also had nooks and crannies but few deep holes. The exposed nature of the bottom and the

prevailing current swept the rotnone from the site within a minute or two. As the sub had to face the current the rotnone would often blow back away from the target area and not over it. These conditions made collections much more difficult than previous efforts elsewhere using the sub. None of the fish collected were dead at the time they were sucked into the collector.

Species list:

Numerous cook sharks were encountered,
Grammatonotus sp.
Large Hammerhead shark
Plesiobatus
Beryx
Polymixia
Ijimai
Paramola
Gerardia
Pennatulids
Symphasanodon maunaloa

MISSION EVALUATION:

Limitations, failures, or operational problems noted:

Titan failed half way through the dive and the rest of the dive the collection had to be made with the Hyco.

Recommendations for corrective action or improvement:

Fix the Titan

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

Yes, some Grammatonotus were collected had the bottom topography and current conditions and the fish assemblages been more favorable it is likely many more specimens could have been collected in the dive.

List specimens or samples collected on the mission.

Four Grammatonotus sp. specimens 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