

Report Prepared by Marsh J. Youngbluth

HAWAII UNDERSEA RESEARCH LABORATORY (HURL)

QUICK LOOK REPORT MISSION NO.

MISSION STATUS

Location: Dive 046, Offshore of Barbers Point, SW Oahu, Hawaiian Islands

Mission Date: 1 February 1988, 1200-1715 h, Dave Foster (pilot)

Maximum Depth: 1075 m

Project Title: Vertical Distribution and Abundance of Pelagic Zooplankton

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

My objectives were twofold: 1) document the vertical distribution of of zooplankton, particularly the gelatinous groups and 2) interface to the PISCES V submersible, the equipment needed to photograph and collect pelagic animals.

On this dive there appeared to be more fauna in the water column than on the previous dive last week. Small (2-3 mm) copepods occurred in the uppermost 100 m; larger (3-5 mm) resided in a benthic boundary layer 30 m above the sea floor at 1075 m. I saw only a few euphausiids, perhaps two Euphausia spp. and one Stylocheiron sp. More surprising, however, was an almost total absence of amphipods, zooplankton that are always quite numerous in the tropical Atlantic Ocean. Collected an aggregate generation of salp at 500 m. Cyclothone spp. were all below 500 m and constituted the