

Department of Ocean and Resources Engineering

Student Seminars

Bottom Camera Bait Station (Botcam)

by

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Wednesday, December 1, 2004, 3:30 PM, Holmes 211

Abstract

The Coral Reef Ecosystem Division (CRED) of the National Marine Fisheries Service in Honolulu, Hawaii, was formed in 2000 and has been involved in a number of monitoring and data collection programs throughout the Pacific region. The large majority of the projects have focused on relatively shallow water habitats (< 30m). Recently, CRED has been funded to develop a product capable of studying deep water (150m – 300m), commercially viable fish species including various snappers, groupers and jacks. Based on “Bait Stations” started by Dr. Chris Kelley and others at the Hawaii Undersea Research Laboratory (HURL) in the late 1990’s using the Pisces submarines, CRED is currently developing an independent bottom camera bait station. This presentation will give a brief overview of the work being done by CRED and will focus on the development of the bottom camera bait station (Botcam).

ENDEAVOR ocean environment development

By

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Abstract

Project ENDEAVOR (ENvironment for DEsign of Advanced marine Vehicles and Operations Research) is an Office of Naval Research (ONR) funded project with the goal of developing a collaborative distributed environment for advanced marine vehicle (AMV) design. Collaborators include UH Department of Ocean and Resources Engineering, the Maui High Performance Computing Center, SAIC, and Navatek. Components of the ENDEAVOR system include ocean environment modeling by WW3 and SWAN, ship motions analysis by LAMP, an AMV design module, and mission planning capabilities. These resources were recently tested and demonstrated by an analysis of superferry performance under a separate CEROS contract. The presentation will include an overview of the ENDEAVOR project and associated modules with emphasis on the ocean environment database and models. Results of the superferry performance analysis will be summarized and future work will be discussed.