

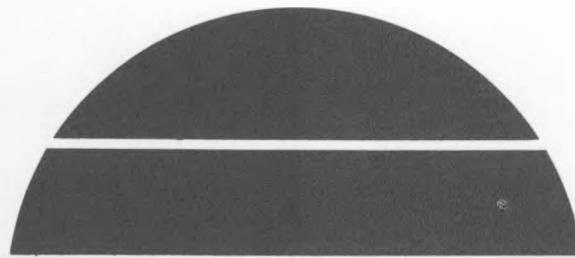
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BIBLIOGRAPHY ON NEKTON FROM THE HAWAIIAN ISLAND ARCHIPELAGO

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Work Performed Under Contract No. W-7405-ENG-48

Lawrence Berkeley Laboratory  
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Berkeley, California



U.S. Department of Energy

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ABSTRACT

A selected bibliography of nekton, principally fish, from the Hawaiian Island Archipelago was compiled in conjunction with environmental work associated with the Ocean Thermal Energy Conversion (OTEC) project.

INTRODUCTION

The U.S. Department of Energy is studying the environmental design and impact considerations of operating commercial Ocean Thermal Energy Conversion (OTEC) power plants in Hawaiian waters. Fish are important commercially and ecologically to the Hawaiian Islands. The operation of OTEC plants may influence the ichthyoplankton, juvenile fish and adult fish populations. The chemical nature of the discharge plume waters (nutrients, biocides, etc.) and the relocation of entrained organisms may affect the trophic structure of the fish community. The entrainment and impingement mortality resulting from the intake of water will also affect fish stocks. The physical structure, floating module and associated pipes, will be an attractant to pelagic fish and may significantly affect operation. These several impacts may affect fish recruitment and ultimately fishery stocks. Publications on marine mammals and turtles in Hawaiian waters have recently been completed (S.F. Payne and E.O.

Hartwig, 1981, The Ecology of Hawaiian Marine Mammals Emphasizing the Impact of OTEC on Endangered Species, MSG-82-017; S.F. Payne, 1980, Marine Mammals of Hawaii: A Bibliography. LBL Report No. 13192; S.F. Payne, 1981, A Bibliography of Marine Turtles in Hawaii. LBL Report No. 12902.)

This bibliography lists publications dealing with the ecology, distribution, and abundance of marine fish and other nekton in the Hawaiian Archipelago. Papers and conferences on the ecology, distribution, migration and abundance of nekton are listed as are articles discussing the fisheries, fishing methods, levels of fishing effort and catch records.

The citations in this bibliography have been divided into three major categories by habitat: the pelagic fish principally tuna and billfish, midwater fish including myctophids and stomiatoids, and general citations which refer to reef and others fishes.

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