

STATE OF CALIFORNIA  
DEPARTMENT OF FISH AND GAME  
MARINE RESEARCH COMMITTEE

CALIFORNIA  
COOPERATIVE  
OCEANIC  
FISHERIES  
INVESTIGATIONS

*Reports*

VOLUME XVII

1 July 1971 to 30 June 1973

*Cooperating Agencies:*

CALIFORNIA ACADEMY OF SCIENCES  
CALIFORNIA DEPARTMENT OF FISH AND GAME  
STANFORD UNIVERSITY, HOPKINS MARINE STATION  
UNIVERSITY OF CALIFORNIA, SCRIPPS INSTITUTION OF OCEANOGRAPHY  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, NATIONAL MARINE  
FISHERIES SERVICE

1 October 1974

DEPARTMENT OF FISH AND GAME

## MARINE RESEARCH COMMITTEE



28 January 1975

The Honorable Edmund G. Brown Jr.  
*Governor of the State of California*  
*Sacramento, California*

Dear Governor Brown:

We have the honor to submit the seventeenth report of the California Cooperative Oceanic Fisheries Investigations.

The report consists of four sections. The first contains a review of the administrative and research activities during the period 1 July 1971 to 30 June 1973, a description of the fisheries, and a list of publications arising from the programs.

The second section consists of papers presented at two symposia, "Large scale aperiodic fluctuations in the Pacific Ocean" and "New challenges to accepted dogmas about productivity in the sea," held in November 1971. Participants in the symposia included key members of the scientific community who provided new insight to some fundamental oceanographic problems.

The third section consists of papers presented at a symposium, "Oceanography and fisheries of Baja California waters," held in November 1972, which brought together members of the scientific communities and governmental agencies of California and Mexico. This symposium demonstrated the spirit prevailing in the informal cooperative research programs that have been initiated between CalCOFI agencies, Instituto Nacional de Pesca of Mexico, and the Instituto de Investigaciones Oceanologicas, Universidad Autonoma de Baja California.

The fourth section consists of scientific contributions which are either a direct result of CalCOFI research programs or represent research directly pertinent to the living marine resources of California.

Respectfully submitted,

A handwritten signature in cursive script that reads "Charles R. Carry".

THE MARINE RESEARCH COMMITTEE  
Charles R. Carry, *Chairman*

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