

**U.S. DEPARTMENT OF COMMERCE**  
**Rogers C. B. Morton, Secretary**

NATIONAL OCEANIC AND  
ATMOSPHERIC ADMINISTRATION  
Robert M. White, Administrator

National Marine Fisheries Service  
Robert W. Schoning, Director



Address correspondence to: Marine Fisheries Review, NMFS Scientific Publications Staff, Room 450, 1107 N.E. 45th St., Seattle, WA 98105.

Publication of material from sources outside the Service is not an endorsement. The Service is not responsible for the accuracy of facts, views, or opinions of these sources.

Although the contents have not been copyrighted and may be reprinted freely, reference to source is appreciated.

The Secretary of Commerce has determined that the publication of this periodical is necessary in the transaction of public business required by law of this Department. Use of funds for printing this periodical has been approved by the Director, Office of Management and Budget, through May 31, 1978.

Editor: J. D. Harrell

Managing Editor: W. Hobart

For sale by the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. Price \$1.10 (single copy). Subscription price: \$12.75 a year, \$15.95 a year for foreign mailing.

## Marine Fisheries Review

Vol. 37, No. 12  
December 1975

### CONTENTS

#### *Articles*

- 1 Possible Anomalies of Giant Bluefin Tuna, Howard A. Schuck
- 13 Exploratory Shrimp Trawling in the Hawaiian Islands, Paul Struhsaker and Howard O. Yoshida
- 22 Water Surface Area Within Statistical Subareas Used in Reporting Gulf Coast Shrimp Data, Frank Patella
- 25 Thermal and Microwave Energy for Shrimp Processing, M. R. R. Rao and A. F. Novak
- 31 The Atlantic Coast Surf Clam Fishery—1973, John W. Ropes, Arthur S. Merrill, and George E. Ward

#### *Departments*

- 35 NOAA/NMFS Developments
- 37 Foreign Fishery Developments
- 42 Fishery Notes
- 43 Index, Volume 37
- 48 In Brief. . . .