

Marine Fisheries REVIEW



On the cover: Views of marine recreational fisheries. NMFS, NOAA photos.

Articles

49(2), 1987

Special Issue: Marine Recreational Fisheries and Fishing

| | | |
|---|---|----|
| Introduction | | 1 |
| Marine Recreational Fisheries in the Southeastern United States | Ronald L. Schmied and Edward E. Burgess | 2 |
| Marine Recreational Fishing and Associated State-Federal Research in California, Hawaii, and the Pacific Island Territories | Mark Helvey, Stephen J. Crooke, and Peter A. Milone | 8 |
| Pacific Billfish Angler Catch Rates for Key Area Stock Assessments | James L. Squire, Jr. | 15 |
| Striped Marlin, <i>Tetrapturus audax</i> , Migration Patterns and Rates in the Northeast Pacific Ocean as Determined by a Cooperative Tagging Program: Its Relation to Resource Management | James L. Squire, Jr. | 26 |
| Relation of Sea Surface Temperature Changes During the 1983 El Niño to the Geographical Distribution of Some Important Recreational Pelagic Species and Their Catch Temperature Parameters in the Northeast Pacific | James L. Squire, Jr. | 44 |
| Atlantic Striped Bass, <i>Morone saxatilis</i> : Stock Status and the Recreational Fishery | R. Anne Richards and David G. Deuel | 58 |
| Abundance of Spanish Mackerel, <i>Scomberomorus maculatus</i> , in the Southeastern United States Based on Catch Per Unit Effort Data from Charterboats, 1982-85 | Barbara Jayne Palko, Lee Trent, and Harold A. Brusher | 67 |
| Abundance of King Mackerel, <i>Scomberomorus cavalla</i> , in the Southeastern United States Based on Catch Per Unit Effort Data From Charterboats, 1982-85 | Lee Trent, Barbara Jayne Palko, Mark L. Williams and Harold A. Brusher | 78 |
| Variations in Size and Sex Ratio of King Mackerel, <i>Scomberomorus cavalla</i> , off Louisiana, 1977-85 | Lee Trent, William A. Fable, Jr., Sandra J. Russell, Gilbert W. Bane, and Barbara Jayne Palko | 91 |
| Movements of King Mackerel, <i>Scomberomorus cavalla</i> , Tagged in Southeastern Louisiana, 1983-85 | William A. Fable, Jr., Lee Trent, Gilbert W. Bane, and Steven W. Ellsworth | 98 |

Continued on page 1

U.S. DEPARTMENT OF COMMERCE

Malcolm Baldrige, Secretary

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

Anthony J. Calio, Administrator

William E. Evans, Assistant
Administrator for Fisheries

National Marine Fisheries Service

Editor: W. Hobart

The *Marine Fisheries Review* (ISSN 0090-1830) is published quarterly by the Scientific Publications Office, National Marine Fisheries Service, NOAA, 7600 Sand Point Way N.E., Bin C15700, Seattle, WA 98115. Single copies and annual subscriptions are sold by the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402: Single copy, \$4.00 domestic, \$5.00 foreign; annual subscription, \$8.75 domestic; \$10.95 foreign.

Publication of material from sources outside the NMFS is not an endorsement and the NMFS is not responsible for the accuracy of facts, views, or opinions of the sources. The Secretary of Commerce has determined that the publication of this periodical is necessary for the transaction of public business required by law of this Department. Use of the funds for printing this periodical has been

approved by the Director of the Office of Management and Budget.

The NMFS does not approve, recommend or endorse any proprietary product or proprietary material mentioned in this publication. No reference shall be made to NMFS, or to this publication furnished by NMFS, in any advertising or sales promotion which would indicate or imply that NMFS approves, recommends, or endorses any proprietary product or proprietary material mentioned herein, or which has as its purpose an intent to cause directly or indirectly the advertised product to be used or purchased because of this NMFS publication. Second class postage is paid in Seattle, Wash., and additional offices. Postmaster: Send address changes for subscriptions to Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402.

| | | |
|---|---|-----|
| Age and Growth of King Mackerel, <i>Scomberomorus cavalla</i> , From the U.S. Gulf of Mexico | Charles S. Manooch, III, Steven P. Naughton, Churchill B. Grimes, and Lee Trent | 102 |
| Results From the 1984 and 1985 Charterboat Surveys in Southeastern U.S. Waters and the U.S. Caribbean Sea | Harold A. Brusher and Barbara Jayne Palko | 109 |
| Nutritional Properties of Recreationally Caught Marine Fishes | Maurice E. Stansby | 118 |
| Encouraging the Use of Underutilized Marine Fishes by Southeastern U.S. Anglers, Part I: The Research | Jeffrey C. Johnson, David C. Griffith, and James D. Murray | 122 |
| Encouraging the Use of Underutilized Marine Fishes by Southeastern U.S. Anglers, Part II: Educational Objectives and Strategy | James D. Murray, Jeffrey C. Johnson, and David C. Griffith | 138 |
| Using FAD's to Attract Fish at Coastal Fishing Piers | James D. Murray, Jeffrey C. Howe, David G. Lindquist, and David C. Griffith | 143 |
| An Estimate of Unsurveyed Coastal Recreational Boat Fishing Activity in Texas | Maury O. Ferguson and Albert W. Green | 155 |
| Business Turnover in the Texas Charter Fishing Industry, 1975-85 | Robert B. Ditton and Jeffrey D. Vize | 162 |
| <hr/> | | |
| <i>Departments</i> | | |
| NOAA/NMFS Developments | | 166 |
| Foreign Fishery Developments | | 176 |
| Publications | | 179 |

Marine Recreational Fisheries and Fishing

A Special Issue of
the *Marine Fisheries Review*

W. L. HOBART, *Editor*

Introduction

Marine angling is an important form of recreation for millions of U.S. citizens and provides many thousands of enjoyable hours and thousands of pounds of high quality food items. Specific data on some of those aspects of the sport are provided in several NMFS publications reviewed or referenced in the "Developments" or news section of this issue.

Marine angling is also a very broad-based activity: The target species and fishing techniques are many, the anglers

cut across all levels of society, and the areas fished range from urban settings to the high seas. The research on marine recreational fishes and fisheries is equally diverse, and much of this diversity can be found in the articles in this special issue of the *Marine Fisheries Review* on marine recreational fisheries—*MFR* on *MRF*.

In the past the *MFR* has occasionally published individual articles on various aspects of *MRF*. This time a particular issue was set aside for NMFS authors to present reviews or reports on their

research activities. In some cases, time constraints did not permit participation, but to those who were able to contribute I extend my thanks. A few related papers from nonagency authors are also included. I am grateful to all the authors and reviewers for their diligence in preparing and critiquing the articles. The task was great, for this issue is about double the normal size of the *Review*. I hope that it will be a useful reference.

W.L.H.