

**CALIFORNIA
COOPERATIVE
OCEANIC
FISHERIES
INVESTIGATIONS**

Reports

VOLUME 54
JANUARY 1 TO DECEMBER 31, 2013

Cooperating Agencies:

CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE
UNIVERSITY OF CALIFORNIA, SCRIPPS INSTITUTION OF OCEANOGRAPHY
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, NATIONAL MARINE FISHERIES SERVICE

CALCOFI COORDINATOR John N. Heine
EDITOR John N. Heine

This report is not copyrighted, except where otherwise indicated, and may be reproduced in other publications provided credit is given to California Cooperative Oceanic Fisheries Investigations and to the author(s). Inquiries concerning this report should be addressed to CalCOFI Coordinator, Scripps Institution of Oceanography, La Jolla, CA 92038-0218.

EDITORIAL BOARD

John N. Heine
Sam McClatchie

Printed and distributed December 2013, La Jolla, California
ISSN 0575-3317

CONTENTS

I. Reports, Reviews, and Publications	
Report of the CalCOFI Committee	5-10
Book Review: “Regional Fisheries Oceanography of the California Current System and the CalCOFI program” by Sam McClatchie. <i>Paul Fiedler</i>	11
Review of Selected California Fisheries for 2012: Coastal Pelagic Finfish, Market Squid, Pacific Herring, Groundfish, Pacific Halibut, Red Sea Urchin, and Sea Cucumber. <i>Dianna Porzio, editor</i>	12-36
State of the California Current 2012-13: No Such Thing as an “Average” Year. <i>Brian Wells, Isaac D. Schroeder, Jarrod A. Santora, Elliott L. Hazen, Steven J. Bograd, Eric Bjorkstedt, Valerie J. Loeb, Sam McClatchie, Edward D. Weber, William Watson, Andrew R. Thompson, William Peterson, Richard D. Brodeur, Jeff Harding, John Field, Keith Sakuma, Sean Hayes, Nathan Mantua, William J. Sydeman, Marcel Losekoot, Sarah Ann Thompson, John Largier, Sung Yong Kim, Francisco P. Chavez, Caren Barcelo, Pete Warzybok, Russell Bradley, Jaime Jahncke, Ralf Goericke, Gregory S. Campbell, John A. Hildebrand, Sharon R. Melin, Robert L. DeLong, Jose Gomez-Valdes, Bertha Lavaniegas, Gilberto Gaxiola-Castro, Richard T. Golightly, Stephanie R. Schneider, Nancy Lo, Robert M. Suryan, Amanda J. Gladics, Cheryl A. Horton, Jennifer Fisher, Cheryl Morgan, Jay Peterson, Elizabeth A. Daly, Toby D. Auth, and Jeffrey Abell</i>	37-71
Publications	72
II. Symposium of the CalCOFI Conference, 2012	
Extended Abstract:	
A Southern California Perspective on Harmful Algal Blooms. <i>Melissa Carter, Mary Hilbern, Carolynn Culver, Fernanda Mazzillo, and Gregg Langlois.</i>	75-79
III. Scientific Contributions	
Finescale Triggerfish (<i>Balistes polylepis</i>) and Roosterfish (<i>Nematistius pectoralis</i>) Presence in Temperate Waters off Baja California, Mexico: Evidence of El Niño Conditions. <i>Jorge Adrian Rosales-Casian.</i>	81-84
Do Shifts in Otolith Morphology of Young Pacific Sardine (<i>Sardinops sagax</i>) Reflect Changing Recruitment Contributions from Northern and Southern Stocks? <i>Barbara Javor</i>	85-96
Corrected Conversion Algorithms for the CalCOFI Station Grid and Their Implementation in Several Computer Languages. <i>Edward D. Weber and Thomas Moore.</i>	97-106
An Overview of Ichthyoplankton Research in the Northern California Current Region: Contributions to Ecosystem Assessments and Management. <i>Toby D. Auth and Richard D. Brodeur</i>	107-126
Estimating Fish Populations from Reef Citizen Science Volunteer Diver Order-of-Magnitude Surveys. <i>John R. Wolfe and Christy V. Pattengill-Semmens.</i>	127-140
Fish Population Fluctuation Estimates Based on Fifteen Years of Reef Volunteer Diver Data for the Monterey Peninsula, California. <i>John R. Wolfe and Christy V. Pattengill-Semmens.</i>	141-154
Anomalous Distributions of Pelagic Juvenile Rockfish on the U.S. West Coast in 2005 and 2006. <i>Stephen Ralston and Ian J. Stewart</i>	155-166
Distribution of Pelagic Juvenile Rockfish (<i>Sebastes</i> spp.) in Relation to Temperature and Fronts off Central California. <i>Keith M. Sakuma, Eric P. Bjorkstedt, and Stephen Ralston</i>	167-179
Interannual Variability of Humboldt Squid (<i>Dosidicus gigas</i>) off Oregon and Southern Washington. <i>Tanya A. Chesney, Selina S. Heppell, Jose Montero, and Jim Graham</i>	180-191
Computing and Selecting Ageing Errors to Include in Stock Assessment Models of Pacific Sardine (<i>Sardinops sagax</i>). <i>Emmanis Dorval, Jennifer D. McDaniel, Dianna L. Porzio, Roberto Felix-Uraga, Vanessa Hodes, and Sandra Rosenfield</i>	192-204
The Sardine Fishery of the Gulf of California. <i>Ernesto A. Chavez and Alejandra Chavez-Hidalgo</i>	205-214
Instructions to Authors	215-216
CalCOFI Basic Station Plan	inside back cover