

Marine Fisheries REVIEW

W. L. Hobart, Editor

J. A. Strader, Managing Editor



On the cover:
Spawntaking operations
on the McCloud River,
Calif. at the Baird Station.



Articles

81(1), 2019

Interpreting Early Species Range Descriptions for Pacific
Salmon, *Oncorhynchus* spp., in Coastal California
Watersheds: The Historical Context

Brian C. Spence 1

Salt Penetration in Whole Raw Tuna Frozen Onboard
Vessel by Brine Immersion: An Industrial Study

*John DeBeer, Fred Nolte,
Christopher W. Lord, and Javier Colley* 40

Capture Efficiency of Artificial Lures in Baited Lines for
Mayan Octopus, *Octopus maya*, Fishery in Campeche, Mexico

*Unai Markaida, Iván Méndez-Loeza, and
Almendra Rodríguez-Domínguez* 53

U.S. DEPARTMENT OF COMMERCE

Wilbur L. Ross, Jr.
Secretary of Commerce

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

Neal A. Jacobs, PhD
Acting Under Secretary for
Oceans and Atmosphere

National Marine Fisheries Service

Christopher W. Oliver
Assistant Administrator for
Fisheries

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., Seattle, WA 98115. Annual subscriptions are sold by the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. The annual subscription price is \$25.00 domestic, \$35.00 foreign. Single copies are \$9.50 domestic, \$13.30 foreign. New subscriptions may be purchased online at <http://bookstore.gpo.gov/products/sku/703-028-00000-4> or by mail at U.S. Government Printing Office, P.O. Box 979050, St. Louis, MO 63197-9000.

Although the contents of this publication have not been copyrighted and may be reprinted entirely, reference to source is appreciated.

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 the NMFS, or to this publication furnished by the NMFS, in any advertising or sales promotion which would indicate or imply that the 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. This issue, volume 81 number 1, was printed and distributed in September 2019.

This publication is available online at
<http://spo.nmfs.noaa.gov>