

# PACIFIC SCIENCE

A QUARTERLY DEVOTED TO THE BIOLOGICAL AND  
PHYSICAL SCIENCES OF THE PACIFIC REGION

VOLUME 31

JANUARY 1977

NUMBER 1

## CONTENTS

An Experimental Analysis of the Escape Response of the Gastropod <i>Strombus maculatus</i> Laurence H. Field	1
Population Structure, Spawning, and Growth of the Coral Reef Asteroid <i>Linckia laevigata</i> (Linnaeus) Masashi Yamaguchi	13
Two Interesting Crabs from Hawaii Masatsune Takeda	31
Food Supply, Feeding Habits, and Egg Production in Pacific Mole Crabs ( <i>Hippa pacifica</i> Dana) Adrian M. Wenner	39
Observations on the Life History of <i>Diplectrum pacificum</i> and <i>D. macropoma</i> (Pisces, Serranidae) from the Bay of Panama Stephen A. Bortone	49
A Taxonomic Review of Hawaiian Gelidiales (Rhodophyta) Bernabé Santelices	61
<i>Gracilaria dotyi</i> sp. nov. (Rhodophyta, Gigartinales): A New Intertidal Species from Oahu, Hawaiian Islands Mitchell D. Hoyle	85
The SO <sub>4</sub> :Cl Ratio in Oceanic Rainwater Peter Kroopnick	91

*Previous issue published 15 April 1977*

COPYRIGHT © 1977 BY THE UNIVERSITY PRESS OF HAWAII

PACIFIC SCIENCE is published by the University Press of Hawaii in January, April, July, and October. Subscription rates to institutions: 1 year, \$20.00; 2 years, \$38.00; 3 years, \$56.00; single copy, \$6.00. Subscription rates to individuals: 1 year, \$10.00; 2 years, \$18.00; 3 years, \$26.00; single copy, \$3.00. Check or money order payable to The University Press of Hawaii should be sent to The University Press of Hawaii, 2840 Kolowalu Street, Honolulu, Hawaii 96822, U.S.A. Claims for issues not received will be honored until 1 year past the date of publication; thereafter, the single copy rate will be charged. Printed by the University Printing House, Shaftesbury Road, Cambridge CB2 2BS, England.

Back volumes of *Pacific Science* are also available in 35-mm microfilm editions, which may be purchased from University Microfilms, 300 North Zeeb Road, Ann Arbor, Michigan 48106, U.S.A.