

PACIFIC SCIENCE

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

VOLUME 37

APRIL 1983

NUMBER 2

CONTENTS

- Ecology of the Imported Red Seaweed *Eucheuma striatum* Schmitz on
Coconut Island, Oahu, Hawaii *Dennis J. Russell* 87
- Tree Cover Changes in *Māmane* (*Sophora chrysophylla*) Forests Grazed by
Sheep and Cattle *Paul G. Scowcroft* 109
- Morphological Variability during Longitudinal Fission of the Intertidal Sea
Anemone, *Anthopleura elegantissima* (Brandt) *Kenneth P. Sebens* 121
- Feeding and Distribution Study of the Sunflower Sea Star *Pycnopodia helian-*
thoides (Brandt, 1835)
M. Shivji, D. Parker, B. Hartwick, M. J. Smith, and N. A. Sloan 133
- The Land Nemertine *Argonemertes Dendyi* (Dakin) in Hawaii (Nemertinea:
Hoplonemertinea: Prosorhochmidae)
Francis G. Howarth and Janet Moore 141
- Preliminary Investigations of Burrow Defense and Intraspecific Aggression in
the Sea Urchin, *Strongylocentrotus purpuratus*
Douglas Maier and Pamela Roe 145

(continued on following page)

COPYRIGHT © 1983 BY THE UNIVERSITY OF HAWAII PRESS

PACIFIC SCIENCE is published quarterly by the University of Hawaii Press in January, April, July, and October. Subscription rates to institutions: 1 year, \$30.00; 2 years, \$58.00; single copy, \$8.00. Subscription rates to individuals: 1 year, \$20.00; 2 years, \$38.00; single copy, \$5.50. Check or money order payable to the University of Hawaii Press should be sent to the University of Hawaii Press, 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. Composition by Asco Trade Typesetting Ltd., Hong Kong. Printed in the United States of America. Postmaster: send address changes to *Pacific Science*, 2840 Kolowalu Street, Honolulu, Hawaii 96822.

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

CONTENTS (continued)

Feeding Activity Patterns and Carrion Removal by Terrestrial Hermit Crabs at Enewetak Atoll, Marshall Islands	<i>H. M. Page</i> and <i>S. W. Willason</i>	151
Patterns of Shell Resource Utilization by Terrestrial Hermit Crabs at Enewetak Atoll, Marshall Islands	<i>S. W. Willason</i> and <i>H. M. Page</i>	157
Biology and Life Cycle of <i>Siganus vermiculatus</i> (Siganidae, Pisces)	<i>N. Gundermann</i> , <i>D. M. Popper</i> , and <i>T. Lichatowich</i>	165

Previous issue published 14 October 1983

Errata

Volume 36, page 484, Plate 1: for *Lobelia*, read *Trematolobelia*.