

A Quarterly Devoted to the Biological and
Physical Sciences of the Pacific Region

E. Alison Kay, Editor



PACIFIC SCIENCE

Recent and forthcoming articles

Annotated Checklist of the Hermatypic Corals of the Philippines

J. E. N. Veron and G. Hodgson

Elevated Carbon Dioxide Levels in Bayless Cave, Australia:
Implications for the Evolution of Obligate Cave Species

F. G. Howarth and F. D. Stone

Vertical Distribution of Mollusks on the Rocky Intertidal
of Easter Island

C. Osorio and V. Cantuarias

Recent Marine Geological Research in the Mariana and
Izu-Bonin Island Arcs

P. Fryer

Calcareous Organisms and Sediment Mineralogy on a
Mid-Depth Bank in the Hawaiian Archipelago

C. R. Agegian and F. T. Mackenzie

Altitudinal Limits of Life in Subtropical Mountains:
What Do We Know?

S. Halloy

Marine Algae of the Northwest Hawaiian Islands

I. A. Abbott

USA/Canada: Individuals US\$30, Institutions US\$45
All other areas: Individuals US\$35, Institutions US\$50

UNIVERSITY OF HAWAII PRESS
Journals Department
2840 Kolowalu Street, Honolulu HI 96822 U.S.A.

The primary research journal dealing with coastal-related problems!

JOURNAL OF COASTAL RESEARCH

An International Forum for the Littoral Sciences

Editor-in-Chief: Charles W. Finkl, PhD

Each quarter, the *Journal of Coastal Research* (ISSN 0749-0208) publishes research with an impressive exchange of ideas on an interdisciplinary basis. JCR is relevant to specialists — in both industrial and academic realms — that deal with all aspects of coastal research. This journal is for those who consider contemporary issues in coastal oceanography, biology, geology, remote sensing, and engineering.

Personal: \$58/year Institution: \$125/year (Add \$10 outside the USA)
 Check Enclosed Purchase Order Enclosed Charge My Credit Card Bill
 (Checks should be drawn in U.S. dollars on a U.S. bank & made payable to Journal of Coastal Research)
 MasterCard Visa No. _____ Expires _____
 Signature _____

Name _____
 Affiliation _____
 Address _____
 City, State, Zip _____ Country _____

FACULTY RECOMMENDATION FOR:

JOURNAL OF COASTAL RESEARCH

An International Forum for the Littoral Sciences

Editor-in-Chief: Charles W. Finkl, PhD

Each quarter the *Journal of Coastal Research* (JCR) publishes research with an impressive exchange of ideas on an interdisciplinary basis. JCR is relevant to specialists who consider contemporary issues in coastal oceanography, biology, geology, remote sensing, and engineering.

Dear Librarian:

I request a library subscription because the original articles in this high-quality, peer-reviewed journal are valuable to my research and teaching, and I need to have access to JCR.

Name _____ Date _____
 Department _____ Signature _____

Quarterly — Institutional Rate: \$125/year (Add \$10 outside the USA) — ISSN 0749-0208

Send Order To: Journal of Coastal Research
 P.O. Box 368, Lawrence, KS 66044 USA

The *Journal of Coastal Research* is surveyed in: *Aquatic Sciences and Fisheries Abstracts*; *Current Awareness in Biological Sciences*; *Current Contents/Agriculture, Biology & Environmental Sciences*; *Ecology Abstracts*; *FLUIDEX (British Hydromechanics Research Association)*; *GeoAbstracts*; *GeoScience Contents*; *Institute of Scientific Information (USSR)*; *Marine Science Contents Tables (FAO)*; *Oceanic Abstracts*; *Oceanographic Literature Review*; *Physics Abstracts*, and *Pollution Abstracts*.

THE COASTAL EDUCATION AND RESEARCH FOUNDATION

4310 NE 25th Avenue
Fort Lauderdale, FL 33308, USA

Officers of the Foundation

Founded in 1983 by: Charles W. Finkl, Sr.,
Charles W. Finkl, Jr., Rhodes W. Fairbridge,
and Maurice L. Schwartz.

President & Executive Director:

Charles W. Finkl, Jr.

Vice President:

Rhodes W. Fairbridge

Secretary-Treasurer:

Charles J. Miller

Board of Directors

Per Bruun	Roy R. Lemon
Donald R. Coates	Robert E. Murdoch
Robert Dolan	Maurice L. Schwartz
Robert Huff	Andrew D. Short
Larry Klingler	Ian Watson

The Coastal Education and Research Foundation (*CERF*) is a nonprofit corporation dedicated to the advancement of the coastal sciences. The Foundation is devoted to the multi-disciplinary study of the complex problems of the coastal zone. The purpose of *CERF* is to help translate and interpret coastal issues for the public and to assist professional research and public information programs. The Foundation specifically supports and encourages field and laboratory studies on a local, national, and international basis. Through the medium of scientific publications, television, and radio *CERF* brings accurate information to the public and coastal specialists on all aspects of coastal issues in an effort to maintain or improve the quality of shoreline resources.

Because *CERF* is concerned with broad environmental

issues, our efforts concentrate on significant problems such as maintenance of good quality (potable) water with adequate supply, and hazards associated with potential beach erosion, flooding, and susceptibility of developed shorelines to storm surge and wave attack. By focusing attention on these potential man-made and natural hazards, it is hoped that our research efforts will help others improve the quality of life in diverse coastal areas. *CERF* thus aims to stimulate awareness of coastal (marine and freshwater shorelines) land and water problems; initiate and foster research and innovation to promote long-term coastal productivity; establish an educational forum for the debate of contentious coastal issues; and develop new principles and approaches for enlightened coastal management, and encourage their adoption and use.

CERF is associated with the Department of Geology at Florida Atlantic University in Boca Raton, Florida 33431. This association provides a basis for cooperative investigation of biophysical resources found in open and naturally protected coastal regions, estuaries, large inland bodies of water bounded by shorelines, wetlands, and other coastal environments. Joint investigative efforts by faculty, students, and staff span a wide and diversified range of interrelated topics that are relevant to solutions of today's dynamic problems. It is hoped that these combined attempts to better understand the nature of coastal processes will help forestall what may become contentious issues of tomorrow.

CERF MEMBERSHIP

Members are individuals, institutions, and corporations that support the aims of the Foundation through personal and group efforts or by donations. Memberships are available in different categories with privileges.

Publications of the Foundation:

CERF Quarterly Journal:

Journal of Coastal Research (JCR): An International Forum for the Littoral Sciences (ISSN 0749-0208). [US\$50.00] (Personal Rate)

Special Issues and Reports:

Journal of Coastal Research:

Special Issue No. 1 (1986): Late Quaternary Sea-Level Changes and Coastal Evolution, edited by Paolo Pirazzoli and John R. Suter. [US\$22.50] (out of print)

Special Issue No. 2 (1986): Annotated Bibliography of Quaternary Shorelines, Fourth Supplement 1978-1983, edited by Horace G. Richards, William B. Gallagher, and Donald J. Colquhoun. [US\$22.50] (out of print)

Special Issue No. 3 (1988): Dune/Beach Interaction, edited by Norbert P. Psuty. [US\$15.00]

Special Issue No. 4 (1988): The Effects of Seawalls on the Beach, edited by Nicholas C. Kraus and Orrin H. Pilkey. [US\$37.00]

Special Issue No. 5 (1989): High Concentration Cohesive Sediment Transport, edited by Ashish Mehta and Earl J. Hayter. [US\$37.00]

Special Issue No. 6 (1990): Artificial Beaches, edited by Maurice L. Schwartz and Eric C.F. Bird. [US\$37.00]

Special Issue No. 7 (1990): Rational Design of Mound Structures, edited by N. Kobayashi and M.A. Losada. [US\$37.00]

Special Issue No. 8 (1990): Impacts of Hurricane Hugo, edited by Orrin H. Pilkey and Charles W. Finkl, Jr. [In Production]

CERF Books:

Atlas of the Living Olive Shells of the World, by Edward J. Petuch and Dennis M. Sargent (ISBN 0-938415-00-X). xiii + 253p. 37 color plates (1986). [US\$68.50]

New Caribbean Molluscan Faunas, by Edward J. Petuch (ISBN 0-938415-01-8). 5 + 156p. 37 black & white plates (1987). [US\$38.50]

Neogene History of Tropical American Mollusks, by Edward J. Petuch (ISBN 0-938415-02-6). 217p, 80 plates (1988). [US\$64.95]

Field Guide to the Ecporas, by Edward J. Petuch (ISBN 0-938415-03-4). 144p, 66 plates (1989). [US\$21.50]