COVER PHOTOGRAPH AND FRONT MATTER: SEA CLIFFS ON THE EAST COAST OF ELEUTHERA ISLAND IN THE BAHAMIAN ARCHIPELAGO

Source: Journal of Coastal Research, 31(6)
Published By: Coastal Education and Research Foundation
URL: https://doi.org/10.2112/1551-5036-31.6.ii
Aims and Scope of the Journal

Journal of Coastal Research, an International Forum for the Littoral Sciences, is dedicated to all aspects of coastal research. These include geology, biology, geomorphology (physical geography), climate, littoral oceanography, hydrography, coastal hydraulics, environmental (resource) management, engineering, and remote sensing. Although each field functions effectively within its own purview, the cross-disciplinary nature of coastal studies requires familiarity with other fields as well. Hence, the scope of topics is necessarily broad in order to address the complexity of coastal biophysical and socio-economic interactions. Because of the wide range of interrelated topics, the journal invites original contributions and manuscripts dealing with theory, methodology, techniques, and field or applied topic studies on interdisciplinary coastal issues.

The journal encourages the dissemination of knowledge and understanding of the coastal zone by promoting cooperation and communication between specialists in different disciplines. Natural scientists, for example, are encouraged to collaborate with professionals in other fields to prepare contributions relating to the coastal zone that foster increased appreciation of coastal environments and processes. By means of this journal, with its scholarly and professional papers, systematic review articles, book reviews, symposia reviews, communications and news, and special topical issues, an international forum for the development of integrated coastal research is provided.

Advertising, Editorial, and Subscription Information

Advertising and Editorial Office: All advertising and editorial correspondence should be sent to Dr. Charles W. Finkl, Editor-in-Chief, Journal of Coastal Research, 5130 NW 54th Street, Coconut Creek, FL 33073, U.S.A. PHONE: 828-333-2300. E-MAIL: cfinkl@cerf-jcr.com

Subscription Information: The Journal of Coastal Research is a bimonthly publication. Calendar-year (2015) print and online subscription prices for the JCR are: $115.00 for US CERF members / $125.00 for International CERF members ($95.00 for online only), and $519.00 for US institutions / $541.00 for International institutions ($437.00 for online only). Additional surface charges may apply to subscribers located outside of the USA. For additional membership and subscription forms and information, please go to www.CERF-JCR.org. To obtain a membership or subscription form by mail, please send request to Journal of Coastal Research, P.O. Box 7065, Lawrence, KS 66044. Back Issues and Special Issues of the JCR, when available, can be directly purchased at www.CERF-JCR.org.

The Journal of Coastal Research is currently surveyed in Applied Science & Technology Index (H.W. Wilson); Aquatic Sciences & Fisheries Abstracts; BIOBASE; Biological Abstracts; BIOSIS Previews (Thomson); CAB International Abstracts (CABI); CSA Civil Engineering Abstracts (ProQuest); Current Awareness in Biological Sciences (Elsevier); Current Contents/Agriculture, Biology, & Environmental Sciences (Thomson); Ecology Abstracts (ProQuest); Environmental Sciences & Pollution Management; GeoAbstracts [Geographical Abstracts: Physical Geography; Ecological Abstracts; Geological Abstracts; GEOBASE] (Elsevier); GeoRef; Meteorological & Geostrophysical Abstracts (ProQuest); Oceanic Abstracts (ProQuest); Oceanographic Literature Review (Elsevier); Physical Sciences Digest (CSA, Elbsco); Pollution Abstracts (ProQuest); Referativnyi Zhurnal; Science Citation Index; SciSearch (Thomson); SCOPUS; Water Resources Abstracts (Bethesda); Zoological Record (Thomson).
Sea cliffs on the East Coast of Eleuthera Island in the Bahamian Archipelago. These high sea cliffs (more than 30 m high), facing large swells with long fetches in the open Atlantic Ocean, provide spectacular scenic distraction from predominantly low islands. Many of the near vertical cliff faces are undercut by notches and sea caves that eventually lead to slope failure. This rocky shore contains many promontories and embayments (photo center), as shown here. Note rivulets of seawater back flowing from waves reaching almost half way up the cliff face. The seaward margins of cliff tops often contain boulders that have been heaved up by storm waves to surmount the steep cliff face, as shown here by the craggy topography along the horizon. These open-Atlantic coastlines in the Bahamas contain rather complicated carbonate stratigraphic sequences with subtidal oolitic marine deposits, beach deposits, weathering zones, cliff talus, and oolitic eolianites, as described by Hearty and Kindler (1993, 1995, 1997). Exposure of these materials has been useful in studies of Pleistocene highstand and lowstand positions, with major oscillations separated by weakly developed soils (protosols). (Photograph taken in 1992 by Charlie Finkl, Coastal Education and Research Foundation, Inc. [CERF], Fletcher, North Carolina, U.S.A.)

LITERATURE CITED

COASTAL EDUCATION AND RESEARCH FOUNDATION
5130 NW 54th Street
Coconut Creek, FL 33073, U.S.A.

Officers of the Foundation
Founded in 1980 by: Charles W. Finkl, Sr. (Deceased), Charles W. Finkl, Jr., Rhodes W. Fairbridge (Deceased), and Maurice L. Schwartz (Deceased)

President & Executive Director:
Charles W. Finkl

Senior Vice President & Assistant Director:
Christopher Makowski

Secretary:
Heather M. Vollmer

Executive Assistant:
Barbara Russell

Regional Vice Presidents
North America
James R. Houston
Syed Khalil
Victor V. Klemas
Orrin H. Pilkey, Jr.

South America
Omar Defeo
Nobuo Mimura

Southeast Asia
Charles LemcKert
Vic Semeniuk
Andrew D. Short

Western Europe
Carlos Pereira da Silva
Michael Phillips
Marcel J.F. Stive

Eastern Europe
Kazimierz K. Furmanczyk

Oceania
Charles Lemckert
Elijah W. Ramsey, III

Board of Directors (Trustees)
J. Andrew G. Cooper
Charles W. Finkl
Erland J. Frederickson
Gary B. Griggs
James R. Houston
Robert Huff
Joseph T. Kelley

Victor V. Klemas
Charles LemcKert
Chris Makowski
Michael Phillips
Orrin H. Pilkey, Jr.
Norbert P. Pusty
Elijah W. Ramsey, III

Lifet ime Members
Yong-Sik Cho
Nicholas K. Coch
Hany Elwany

Bjorn Kjerfve
Charles LemcKert
Charles Thibault

Erik van Wellen
Ya Ping Wang
Wei Zhang

Patron Members
Luis Antonio
Buenfil-Lopez
Georges Chapalain

Carl H. Hobbs, III
Timothy W. Kana
Norbert P. Pusty

Giovanni Randazzo
Robert S. Young

CERF Society Information

The Coastal Education and Research Foundation (CERF) is a nonprofit society 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 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.

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

Subscription information is available online at www.cerf-jcr.org. Subscriptions office: Allen Press, Inc., P.O. Box 1897, Lawrence, KS 66044, U.S.A. CERF@allenpress.com

Editor-in-Chief
Charles W. Finkl Ph.D., CSci, CMarSci, FIMarEST, CPLOS, CPSSc, PWS, M.ASCE

Dr. Charles W. Finkl is President and Executive Director of the Coastal Education & Research Foundation (CERF), publisher of the JCR. Charlie, a founding editor of the Journal of Coastal Research, has served as Editor-in-Chief for the past 30 years. He is a Research Professor in the Department of Geosciences at Florida Atlantic University in Boca Raton, Florida. He received his Bachelor and Master of Science degrees from Oregon State University and the Ph.D. from the University of Western Australia. He is a member of more than 20 professional societies and has published more than 200 professional papers, books, and reports. He is a Chartered Marine Scientist (CMarSci) [Institute of Marine Engineering, Science and Technology], Certified Professional Geological Scientist (CPGGS) [American Institute of Professional Geologists (AIPG)]. Certified Professional Soil Scientist (CPSSc) [American Registry of Certified Professionals in Agronomy, Crops, and Soils], and a Professional Wetland Scientist (PWS) [Society of Wetland Scientists]. Charlie has field experience in parts of the USA, Caribbean area, Brazil, Honduras, Russia, South Africa, Western Europe, Australia, and South Pacific islands. He is also the Series Editor of the Encyclopedia of Earth Sciences Series that is published by Springer (Germany). There are more than twenty-eight volumes in the Series and about twenty-five are available online. Charlie also serves on the Editorial Board of the International Journal of Environmental Studies (Routledge) and is an occasional peer reviewer for many other professional journals.

Charlie has interests and expertise in the general areas of surficial geology, coastal and marine geomorphology (including coastal classification), coastal/marine biophysical environments, exploration geochemistry, soils and weathering (regolith geology), coastal zone management and engineering applications or impacts on natural systems (including erosion control and shore protection), coastal hydrology including submersible freshwater and mineralized seeps, subaerial and marine structural geology, natural hazard mitigation in coastal zones, marine environments and coastal wetland protection and restoration, and remote sensing (e.g., land cover classification in coastal wetlands, advection-diffusion turbidity plumes in coastal waters, delineation of bottom types and sand resources), effluent disposal and pollution of wetlands and estuaries, water resources mapping and conservation, time series studies of wetland hydrosediment and soil moisture.

Official Meeting of CERF
International Coastal Symposium (ICS)

The International Coastal Symposium (ICS) was originally set up by Per Bruun (deceased) and Charlie Finkl as the official meeting of the Coastal Education & Research Foundation (CERF), with one of the first meetings being held in Hilton Head, South Carolina, in 1993. After the repeated success of these meetings, CERF moved the ICS to the international scene holding these conferences in conjunction with local sponsors in Australia, Brazil, Iceland, New Zealand, Northern Ireland, Poland, and Portugal. The ICS brings together delegates from all over the world to collaborate and discuss the most current coastal research studies and projects. During the ICS 2014, which was held in Durban, South Africa, a grand celebration took place to mark the 30th Anniversary of CERF and the JCR. Our next ICS meeting is scheduled for March of 2016 in Sydney, New South Wales, Australia. For more information, please visit www.cerf-jcr.org.
Nonlinear Change in Sea Level Observed at North American Tide Stations ............................................................ John D. Boon and Molly Mitchell
Possible Tsunami Deposits on the Caribbean Coast of the Yucatán Peninsula ................................................................. Charles E. Shaw and Larry Benson
Genetic Structure of Native and Restored Populations of American Beachgrass (Ammophila breviligulata Fernald) along the New Jersey Coast ........................................................................................................... David H. Slaymaker, Michael S. Peek, Joanna Wresilo, Danielle C. Zeltner, and Yasmeen F. Saleh
Determination of Critical Shear Stresses for Erosion and Deposition Based on In Situ Measurements of Currents and Waves over an Intertidal Mudflat ...................................................................................... Benwei Shi, Ya Ping Wang, Yang Yang, Mingliang Li, Peng Li, Wenfei Ni, and Jianhua Gao
The Effects of Dredging on Tidal Range and Saltwater Intrusion in the Pearl River Estuary ........................................................................................................................................................................... Rui Yuan and Jianrong Zhu
Marine Currents in the Gulf of Urabí, Colombian Caribbean Sea ........................................................................................................................... Carlos A. Escobar, Liliana Velásquez, and Federico Posada
Beach Slope and Sediment-Grain-Size Trends as a Basis for Input Parameters for the SHEAR Erosion Model ................................................................................................................................. Mark Leadon
Spatiotemporal Analysis of Shoreline Changes of the Kizilirmak Delta ......................................................................................... Derya Ozturk, Isik Beyazit, and Fatmagul Kilic
Hydrodynamics of the Toliara Reef Lagoon (Madagascar): Example of a Lagoon Influenced by Waves and Tides ........................................................... Cristele Chevalier, Jean-Luc Devenon, Gilles Rougier, and Jean Blanchot
Chemistry of a Surficial Aquifer of a Large Coastal Lagoon Barrier and Its Relation to Adjacent Surface Waters of Brazil ............................................................................................................................................. L. Felipe H. Niencheski and Herbert L. Windom
Spatial and Temporal Hydrological Variations in the Inner Estuaries of a Large Coastal Lagoon of the Southern Gulf of Mexico ................................................................................................................................. Israel Medina-Gómez, Guillermo J. Villalobos-Zapata, and Jorge A. Herrera-Silveira
Spatiotemporal Dynamics of Island Land Expansion Response to Intensive Island Development and Reclamation ........................................................................................................................................................ Yi Pan, Jinsong Deng, Jinbo Cai, Ke Wang, Chaoqun Wu, Jun Li, and Jiadan Li
The Influence of a Seawall on Postnourishment Evolution in a Sea-Breeze-Dominated Microtidal Beach ................................................................. Gabriela Medellín, Ismael Marín-Tapia, and Jorge Euián-Avila
Spatial Effects of a Washout on Sandy Beach Macrofauna Zonation and Abundance ........................................................................................................... Ana Luiza Gandara-Martins, Carlos A. Borzone, Pablo D.B. Guilherme, and Jeniffer V. Vieira
Assessment of South Sinai Coastal Vulnerability to Climate Change ............................................................................................................................ Mohamed E. Hercher
Beachgoers’ Demands vs. Blue Flag Aims in South Africa ............................................................................................................................... Serena Lucrezi and Melville Saayman
Contaminant Transport in Capped Deformable Partially Saturated Sediments ................................................................................................. H. Zhang, H. Yang, and D.-S. Jeng
Numerical Investigation of Solitary Wave Interaction with a Row of Vertical Slotted Piles ......................................................................................... Changbo Jiang, Yu Yao, Ya Deng, and Bin Deng

The Biological Flora of Coastal Dunes and Wetlands: Solidago sempervirens L. and Solidago sempervirens L. subsp. mexicana (L.) Semple ........................................................................................................................ Robert I. Lonard, Frank W. Judd, and Richard Stalter

Guidance for Developing Coastal Vulnerability Metrics ................................................................................................................................. Ty V. Wamsley, Zachary A. Collier, Katherine Brodie, Lauren M. Dunkin, David Raff, and Julie D. Rosati
The Effects of Sieve Size on Benthic Community Composition Analysis ........................................................................................................ S. Ian Hartwell and Allan K. Fukuyama
Cryogenic Defaunation of Sediments in the Field ............................................................................................................................... R. Hale, R.O. Jacques, and T.J. Tolhurst

Professor Hans Hanson receives gold medal from His Majesty King Carl XVI Gustaf and Her Majesty Queen Silvia.