COVER PHOTOGRAPH AND FRONT MATTER: PORTION OF THE UPPER FLORIDA KEYS AND DISTAL PENINSULAR FLORIDA SHOWN THROUGH HIGH-RESOLUTION DIGITAL ORTHOIMAGERY AERIALS

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Charles W. Finkl
Editor-in-Chief

33rd JCR Year of Service

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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 effectivelywithin itsownpurview, the cross-disciplinarynature 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 and symposia reviews, communications and news, and special topical issues, an international forum for the development of integrated coastal research is provided.

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COVER PHOTOGRAPH

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Portion of the upper Florida Keys and distal peninsular Florida shown through high-resolution digital orthoimagery aerials. Coastal aerial imagery allows for a finely detailed visual approach to classifying marine ecosystems remotely. By incorporating both the visible light and infrared wavelength bands, digital orthoimagery is widely used today for the characterization and interpretation of shorelines and nearshore benthic environments. The digital format of the images also allows for a quicker processing turnaround time, as photos can be directly imported into geographic information system (GIS) interfaces to be georeferenced and cateloged. Previous studies, such as Makowski, Finkl, and Vollmer (2016), provided evidence that the use of such aerial photography was effective for the mapping and classification of shallow marine habitats along continental shelves. For example, numerous physiographic realms (*e.g.*, Southeast Distal Florida, Biscayne Bay and Card Sound, Florida Keys, Hawk Channel, Florida Reef Tract, Transitional Tidal Passes) and morphodynamic zones (*e.g.*, Everglades Swampland Systems, Coral Keys, Channel Systems, Backreef, Parabathic Lithic Shelf).

The above imagery contains digital ortho mosaic photographs taken by the United States Department of Agriculture's (USDA) National Agricultural Imagery Program (NAIP). Even though originally taken to monitor the agricultural growing seasons in the continental United States, NAIP offers high-resolution digital aerials of portions along coastal and nearshore environments. This particular orthoimagery set (*i.e.* ortho_fl086_2010_1) was mainly taken because of the proximity of the Turkey Point Nuclear Generating Station to the coast (shown by the vertical cooling canals towards the left of the imagery above) and provided a rectifying horizontal accuracy that matched within 5 m of ground control points with less than 10% cloud cover. Digital ortho quarter quad tiles of NAIP imagery were downloaded from the USDA Farm Service Agency's (FSA) Aerial Photography Field Office (APFO) (*i.e.* http://apfo.usda.gov/). (Imagery taken 22 November 2010 at a 1 m ground sample distance [GSD], by the United States Department of Agriculture's [USDA] National Agricultural Imagery Program [NAIP]).

LITERATURE CITED

Makowski, C.; Finkl, C.W., and Vollmer, H.M., 2016. Classification of continental shelves in terms of geospatially integrated physiographic realms and morphodynamic zones. *Journal of Coastal Research*, 32(1), 1–34.

COASTAL EDUCATION AND RESEARCH FOUNDATION

5130 NW 54th Street
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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 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 MEMBERSHIP ☐

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.

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Editor-in-Chief

Charles W. Finkl Ph.D., CSci, CMarSci, FIMarEST, CPGS, CPSSc, PWS, M.ASCE

Dr. Charles W. Finkl is President and Executive Director of the Coastal Education and 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 (CPGS) [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, Australasia, 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 submarine 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 hydroperiod 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 and 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 May of 2018 in Busan, South Korea. For more information, please visit www.cerf-jcr.org.

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