

# newsletter

Union Géographique Internationale

International Geographical Union

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Margarita Stancheva, Editor

Norbert P. Psuty, Co-Editor

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**Objectives:** The Commission on Coastal Systems encourages the study of coastal systems throughout the world. The Commission sponsors and supports activities leading to the exchange of information regarding coastal systems among our members and throughout the IGU at large. The focus of attention is on interactive systems, both human and physical, and the areas of inquiry include issues such as sea-level rise, land-use changes, estuarine resources, coastal tourism and shoreline development, coastal recreation, and coastal zone management. The Commission will make concerted efforts to emphasize issues of Global Change. Copies of our Newsletter and announcements are on our website: <http://www.igu-ccs.org/>.

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## PHOTO OF THE ISSUE



*(Submitted by CCS Steering Committee Member: Dr. Abdelmounim El M'rini, Morocco)*

## Message from the Chair

This Newsletter outlines some of the exciting things that the Commission on Coastal Systems (CCS) has been doing in the latter half of 2018, and forthcoming meetings in 2019. CCS sponsored various sessions at international conferences, including at EGU General Assembly 2018 and CoastGIS 2018. Amongst them was the

first symposium in northern Africa on the subject of coastal hazards. The accompanying photo of the Rif region in Morocco is an example of a low-lying section of a small delta that is vulnerable to inundation during storm surges and to landslides and flash flooding during torrential rain. I thank Margarita Stancheva for collating this Newsletter and Norbert Psuty for his continuous support, and all CCS Steering Committee members for their important contributions, and I extend best wishes to the coastal science community for 2019. Please help us build a strong network of coastal researchers, participate in the activities described in the following pages, and share your news with colleagues by contributing to future newsletters.

COLIN WOODROFFE

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## MEETINGS / SESSIONS SPONSORED OR CO-SPONSORED BY THE COMMISSION ON COASTAL SYSTEMS

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APRIL 7-12, 2019, VIENNA, AUSTRIA, EUROPEAN GEOSCIENCES UNION (EGU)



Four special geomorphology and natural hazards sessions are sponsored by the Commission on Coastal Systems:

### **GM11.2 Coastal Morphodynamics: Nearshore, Beach and Dunes**

The session will be organised for the third time at the EGU2019 General Assembly, Vienna, Austria. This session welcomes contributions from coastal scientists interested in the measurement and modelling of marine (nearshore waves, currents and sediment transport) and terrestrial (e.g. aeolian) processes and responses within the three sub-units over various scales. The session will highlight the latest developments in this part of the planet's geomorphic system and facilitate knowledge exchange between the submerged and sub-aerial coastal zones.

This session is being organised by Derek Jackson (UK), Irene Delgado-Fernandez (UK) and Emilia Guisado-Pintado (Spain). For more details visit the session website:

<https://meetingorganizer.copernicus.org/EGU2019/session/32833> or contact **Derek Jackson:**  
[d.jackson@ulster.ac.uk](mailto:d.jackson@ulster.ac.uk)

### **GM11.5 Coastal Zone Geomorphologic Interactions: Natural versus Human-Induced Driving Factors**

This session will be organised for the eleventh time at the EGU2019 General Assembly. The session gives priority to the subjects of coastal geomorphology: evolution of coastal landforms, coastal morphodynamics, coastline alterations and various associated processes in the coastal zone, e.g. waves and sediment drift, which shape coastal features and cause morphological changes. Contributions to this session will focus on the mechanisms responsible for coastal erosion and shoreline behaviour (advance or retreat) and will address the many natural and human factors involved. The topics may include work on predictions of shoreline change and discussions on the effects of human activities and their continuing contribution to coastal changes. The session

will also cover submissions on coastal vulnerability to the combined effects of natural and human-related hazards, any type of coastal and environmental sensitivity classifications, and risk assessments. Globally, coastal dunes are seriously threatened as people tend to modify landforms and habitats through their actions and regulations, and the session invites also studies on natural and human-induced geomorphological changes of sand dunes, and recent projects and examples of dune eco-restoration and re-building. Studies related to Marine Spatial Planning (MSP), including Integrated Coastal Management (ICM) are also welcome. For any MSP and ICM, it is essential to consider the dynamics across the land-sea interface, i.e. the Land-Sea Interactions (LSI) that involve both natural processes and the impact of human activities.

This session is being organised by Margarita Stancheva (Bulgaria), Andreas Baas (UK), Giorgio Anfuso (Spain), Hannes Tonnison (Estonia) and Guillaume Brunier (France).

For more details, visit the session website: <https://meetingorganizer.copernicus.org/EGU2019/session/32836>.

Please contact **Margarita Stancheva** for further information and details: [stancheva@ccms.bg](mailto:stancheva@ccms.bg)

### **NH8.1 Ecosystem-based Approaches to Coastal Disaster Risk Reduction: New Tools and Case Studies**

This session will be organised for the first time at the EGU General Assembly. The session demands a new approach to coastal disaster risk reduction: the development of new tools to model and design the reconstructed environments; merging physical concepts like bed erosion and sediment transport with the parameterization of biologically-induced phenomena, such as the role of emerged and submerged vegetation in attenuating wave and current energy; as well as the role of plants in stabilising/destabilising the morphology of coastal dune systems. The session welcomes contributions covering modelling and monitoring aspects, including innovative approaches in coastal morphological models that account for the presence of the ecosystems, quantifying feedback interactions between the physical and biological components. The session welcomes case-studies reporting recovery of the ecosystems and of the physical environment following major extremes such as tropical and extra-tropical storms. Contributions on case studies documenting new techniques for revegetation of submerged as well as subaerial environments are also welcome.

This session is being organised by Paolo Ciavola (Italy), Clara Armaroli (Italy), Jenny Brown (UK) and Pushpa Dissanayake (Germany).

For more details, visit the session website: <https://meetingorganizer.copernicus.org/EGU2019/session/32500>.

Please contact **Paolo Ciavola** for further information and details: [cvp@unife.it](mailto:cvp@unife.it)

### **NH8.2 Documenting the Impact of Storms along Sandy Coasts: Interactions between Physical, Ecological and Societal Dynamics**

This session will be organised for the first time at the EGU General Assembly. To fully evaluate the storm impacts, different disciplines should come together to provide a comprehensive assessment of the consequences on the coast from energetic events. The persistent erosion of natural shores can have a dramatic impact on ecosystems; where human occupation is present, storms can affect the socio-economy of coastal communities, threaten human lives, damage or destroy human assets. To prevent, mitigate, prepare and recover from the impact of energetic events, several types of actions are required at different political and management levels. The increasing interest in ecosystem-based approaches, and expanding use of coastal systems, outlines the importance of examining the interaction between the ecological, physical and societal components. Thus, this session explores the coastal areas affected by extreme events from a multidisciplinary point of view. Abstracts should present research activities that involve direct measurements of the behaviour of coastal systems (both the physical and the ecological components), over various temporal (e.g. the impact of a single event or the long term evolution) and space scales. The session especially welcomes contributions from scientists that present multidisciplinary works from ecology to biology, sedimentology, geomorphology and socio-economy.

This session is being organised by Clara Armaroli (Italy), Derek Jackson (UK), Denise Reed (USA), and C. Viavattene (UK)

For more details, visit the session website: <https://meetingorganizer.copernicus.org/EGU2019/session/32499>.

Please contact **Clara Armaroli** for further information and details: [clara.armaroli@unife.it](mailto:clara.armaroli@unife.it)

**The deadline for abstract submissions to four EGU2019 sessions is 10 January 2019!**

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## REPORTS ON MEETINGS

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**SEPTEMBER 3-6, 2018. ECSA 57: CHANGING ESTUARIES, COASTS AND SHELF SYSTEMS - DIVERSE THREATS AND OPPORTUNITIES, PERTH, AUSTRALIA**



The 57<sup>th</sup> conference organised by ECSA was held in Perth, 3-6 September 2018. ECSA, the Estuarine Coastal Sciences Association, is a multidisciplinary association devoted to the science and management of estuaries and coasts and the theme of this meeting was *Changing estuaries, coasts and shelf systems - Diverse threats and opportunities*. The structure and functioning of estuaries and seas are shifting due to diverse drivers from local to global scales. The resulting threats to these systems are often all too apparent, yet such changes can also present new opportunities. The conference recognised that the challenge is to harness opportunities through new ways of thinking, scientific developments, innovative technology and more effective integration of science and management. It brought together scientists, managers and innovators, working across coasts and oceans, and emphasised past, present and projected shifts in the structure and function of these environments. There was a call for better understanding of the diverse and complex ecosystem functioning from micro- to macro-scales, for anticipation of how these systems may react and adapt to changes, the values which people attach to the habitats, and the potential response by society.

With almost 500 delegates in attendance, this meeting over three and a half days comprised six keynote plenary speakers who set the tone and focus of the concurrent paper sessions and the numerous posters. The possible trajectories for coastal areas in response to sea-level rise were outlined by Robert Nicholls and the extent to which marine and coastal species are already on the move was described by Gretta Pecl. Estuarine and coastal ecology and interconnectivity in the Anthropocene were examined by Alan Whitfield and environmental behaviour change and social marketing was considered by Lynne Eagle. The topic of coastal sustainability was dissected by Chris D'Elia, whereas cross-disciplinary modelling of the physical complexities of the Great Barrier Reef was showcased by Barbara Robson.

The Commission on Coastal Systems sponsored a session focused on the southern hemisphere. Entitled, *'Similarities, stressors and sustainability of southern hemisphere estuaries on wave-dominated coasts'* the session was convened by Kerrylee Rogers, Janine Adams, Debora De Freitas and Colin Woodroffe. Presentations included an outline of past present and future dynamics of the Shoalhaven estuary in NSW by Rafael Carvalho, followed by an overview of the role of catastrophic events on the trophic status of near pristine estuarine lagoons on that coast by Peter Scanes. By contrast, Debora De Freitas reported on the land use pressures and mangrove degradation in the Brazilian coastal city of Santos. The patterns, processes and responses of saltmarsh along the coast of South Africa were described by Janine Adams, then the

accommodation space within which mangrove grow and have been changing in northern Australia was examined by Colin Woodroffe. Andrew Swales gave a detailed account of studies of *Avicennia* in the Firth of Thames in New Zealand, and Jackie Raw examined the drivers changing distribution of mangrove along the high-energy coast of South Africa. Emma Asbridge showed the extent of dieback of mangrove in the Kakadu region of northern Australia in response to an unusual event in 2015-6, whereas Daniel Gorman reported on revegetating areas of degraded mangrove in Araçá Bay in Brazil and the recovery of macrofaunal communities. Jamie Johnson described a preliminary attempt to determine the blue carbon capacity of South African mangroves. The session concluded with an overview of sea-level change and the response of mangrove shorelines both in terms of sedimentation and carbon sequestration by Kerrylee Rogers in which she summarised the latitudinal limit to mangroves across the southern hemisphere.

A special issue of *Estuarine Coastal and Shelf Science* has been proposed as an outcome of this session, focused on Estuaries and Coasts of the Southern Hemisphere, edited by Kerrylee Rogers, Janine Adams, Debora De Freitas and Colin Woodroffe. Contributions to this special issue that describe the characteristics of estuarine systems in the southern hemisphere would be welcome; contact Colin Woodroffe, at [colin@uow.edu.au](mailto:colin@uow.edu.au), for further information.



Mike Elliott announcing the next ECSA in Hull in 2020



Tim Jennerjahn promoting the two journals

**Submitted by CCS Chair:** Colin Woodrofe (Australia)

**SEPTEMBER 27-29, 2018. COASTGIS 2018 “SPATIAL PLANNING AND CLIMATE CHANGE”, ÍSAFJÖRÐUR, ICELAND**



Inaugurated in 1995, as a scientific collaboration between the IGU Commission on the Coastal Environment (now the Commission on Coastal Systems) and the Commission on Marine Cartography of the International Cartographic Association, the CoastGIS series of biannual meetings brings together practitioners and researchers

in the field of marine and coastal Geographic Information Systems, remote sensing and computer cartography. It is an established major international event, attracting delegates from around the globe, providing a showcase for new developments in information management and technology, as well as a learning experience for all involved in coastal zone management, science and research.

The **13<sup>th</sup> CoastGIS Symposium and Exhibition** took place from the 27<sup>th</sup> to the 29<sup>th</sup> September 2018, at the University Centre of the Westfjords, located in the dramatic surroundings of the small township of Ísafjörður in northwest Iceland (see aerial photo below).



Aerial photo credits: Gusti Productions ([https://www.uw.is/conferences/coastgis\\_2018\\_-\\_photos/](https://www.uw.is/conferences/coastgis_2018_-_photos/))

The conference theme selected for the gathering, "*Spatial Planning and Climate Change*," refers to the challenges faced worldwide in light of climate change, particularly in the Arctic, and the need for cooperation in spatial planning between maritime countries. The meeting attracted about 100 participants, representing 20 different nations from as far afield as Australia, Brazil, the east and west coasts of Canada, Colombia, Namibia, the United States, and several European countries.



Photo credits: Gusti Productions ([https://www.uw.is/conferences/coastgis\\_2018\\_-\\_photos/](https://www.uw.is/conferences/coastgis_2018_-_photos/))

The conference offered plenary, parallel and poster sessions, as well as a workshop hosted by the International Coastal Atlas Network (ICAN) on Coastal Web Atlases and their contribution to the United Nations Sustainable Development Goals.

After the conference, delegates had the opportunity to experience some of the amazing Icelandic scenery, on an informative and adventurous full-day post-conference coach excursion back to Reykjavík. Although not part of the official programme, those participants willing to brave the occasional snow flurries, and venture outdoors late into the night in Ísafjörður, were even treated to breath-taking displays of the Northern Lights.

The next CoastGIS Symposium in the series is planned to be held in 2020. In anticipation of this, the International CoastGIS Committee (through its chair, Dr David Green, University of Aberdeen, Scotland – email to [d.r.green@abdn.ac.uk](mailto:d.r.green@abdn.ac.uk)) would be delighted to hear from any prospective host institutions, in Europe or elsewhere, interested in providing a venue for this or subsequent meetings.

**Submitted by:** Darius Bartlett (Research Associate, Department of Geography, University College Cork, Ireland).

## OCTOBER 04 - 05, 2018. COASTAL HAZARDS IN AFRICA, TETOUAN, MOROCCO



The 1<sup>st</sup> Edition of the International Symposium on Coastal Hazards in Africa was held October 04-05 2018 at the Faculty of Sciences and Hotel „Chams“ in Tetouan, Morocco. The main objectives of this meeting was to bring together scientists and managers interested in African coastal areas in order to draw up an assessment of the state of coastal zones, identify the main risks to which they are exposed, discuss the measures taken to confront these risks, and propose measures to be taken to better manage them. Indeed, African coastal zones are particularly concerned by these hazards. In addition to the concentration of major African cities on or near the coast, the socio-economic fragility, political instability, and the lack of legal frameworks specific to coastal management and risks in general, render them even more vulnerable.

13 poster abstracts and 36 oral communications abstract submissions were obtained. Poster session was held on 4<sup>th</sup> October at the Faculty of Sciences in Tetouan – Morocco and oral presentations on 4<sup>th</sup> – 5<sup>th</sup> October at Hotel “Chams”, Tetouan – Morocco divided according to three sessions:

- Erosion and coastal flooding hazards in Africa
- Pollution and oil spill risks

- Coastal hazards management in Africa

Oral presentations were followed by a round table October 5, 2018 at Hotel ‘‘Chams’’. The main purpose of the roundtable was to learn from the experience of French colleagues who were present for the setting-up of an observatory of coastal hazards (<http://or2c.osuna.univ-nantes.fr>).



### **The main results of the Symposium:**

#### **1) Scientifically**

Considering the interest of the theme and the works presented during this event, 12 to 15 studies will be published in a special issue of the Journal of African Earth Sciences - Elsevier (ISSN: 1464-343X).

#### **2) Sustainability**

In order to give continuity to these actions two proposals have been made concerning:

- The next edition for 2020 will be held in Vannes (France) or South Africa, and the one that will follow in 2022 will probably be in Libreville (Gabon).
- The creation of an African network of specialists working on coastal areas, the structuring will be discussed by exchange of emails and will be subject to approval at the next edition of 2020.

#### **3) The setting-up of an "Observatory of Coastal Hazards in the Tangier-Tetouan-Al Hoceima Region" (North West Morocco)**

Based on the experience of the Regional Observatory of Coastal Hazards in *Pays de la Loire* – France, and the commitment of the whole team of the University of Nantes, which was behind the setting up of this observatory, the participants in the roundtable decided to launch the setting up of this observatory which will be located at the Faculty of Sciences in Tetouan.

**Submitted by CCS SC Member:** Dr. Abdelmounim El M’rini, Morocco

### **OCTOBER 10, 2018. MUSES FINAL CONFERENCE, BRUSSELS, BELGIUM**

On 10<sup>th</sup> October 2018 the **Multi-Use in European Seas (MUSES)** H2020 Project held its final conference in Brussels in order to disseminate project results and discuss the way forward for multi-use (MU) in European Seas. Engaging a wide range of interested stakeholders from the business community, public administrations and academia, the conference provided a platform for the discussion of the produced **EU-wide Multi-Use Action**



**Plan**, setting out the various actions that can be taken at different levels (including policy, administration, legislation etc.) to promote MU in European Seas.



Presentations and discussions also covered findings from MU case studies and sea basin analysis which informed the **Action Plan** from the project partners. Stakeholders and actors with certain roles in the development of MU concepts and its implementation also presented their experiences and perspectives on MU.

Invited stakeholders comprised of representatives from a diverse range of areas: international organisations, national and regional bodies, scientific institutions, NGO's, environmental associations, management bodies, industry, maritime sectors, representative of bodies involved in cross-sector processes (MSP, IC(Z)M, etc.), with different institutional roles and covering all European Sea basins (Eastern Atlantic Ocean, North Sea, Baltic Sea, Mediterranean and Black Sea).



The CCS Secretary Margarita Stancheva (CCMS Director, Bulgaria) was invited speaker at the panel for *Tourism-related Multi-Use* and she talked on *“Addressing the Multi-use Concept with Marine Spatial Planning in the Black Sea”*.

For more details on the conference, presentations, published Action Plan and the project outcomes, visit the MUSES website: <https://muses-project.eu/>.

**Submitted by CCS Secretary:** Margarita Stancheva, Bulgaria.

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## MEETINGS WITH COASTAL INTEREST

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**APRIL 21-25, 2019. SOLAS OPEN SCIENCE CONFERENCE 2019. SAPPORO, HOKKAIDO, JAPAN**



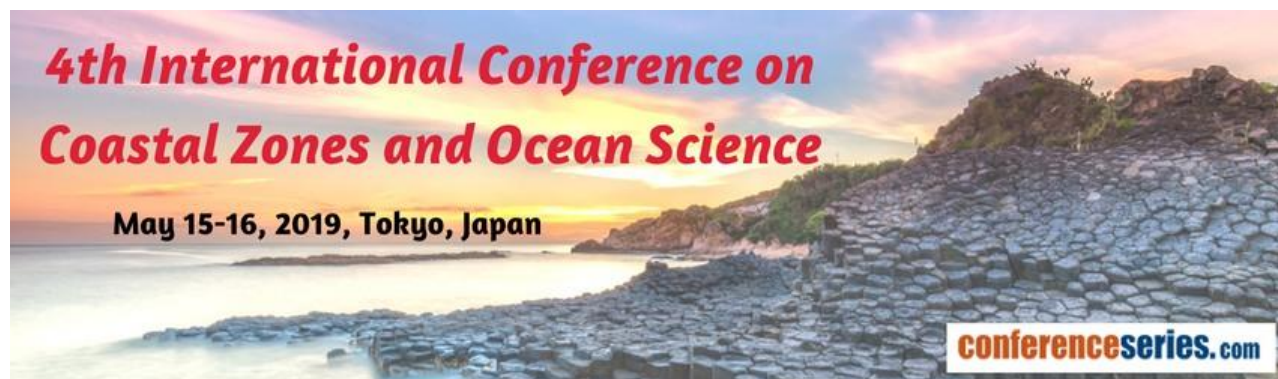
The 2019 edition of the Surface Ocean Lower Atmosphere Study (SOLAS) will take place from the 21-25 April in Sapporo, Hokkaido, Japan. With its Open Science Conference, SOLAS offers the ideal programme for scientists who wish to learn and exchange about cutting edge research in the field and present their own findings.

A special event dedicated to Early Career Scientists is being organised on 21<sup>st</sup> of April 2019 and it will bring together around 30 early career scientists and world-leading international scientists for a day of lectures and practical sessions. In addition, a tour to the beautiful Lake Shikotsu, which is surrounded by volcanoes, will be organised.

To keep being up to date with SOLAS and the organisation of the conference, subscribe to the SOLAS mailing list. For abstract submission, registration and discussion session submission visit the **conference website**: <https://www.confmanager.com/main.cfm?cid=2778>

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**MAY 15-16, 2019. 4<sup>TH</sup> INTERNATIONAL CONFERENCE ON COSTAL ZONES AND OCEAN SCIENCE-2019. TOKYO, JAPAN.**



**Conference Theme:** *Discovering the Innovative methods for the betterment of Coastal and Ocean science*

**Coastal Zones Congress-2019** is a global platform to discuss and teach about Coastal and Marine life. This forum aims to generate new investigations and collaboration between marine scientists.

For further information on abstract submission and programme schedule please visit: <https://coastalzonemanagement.conferenceseries.com>

**MAY 15-18, 2019. 7<sup>TH</sup> EUGEO CONGRESS ON THE GEOGRAPHY OF EUROPE 2019.  
GALWAY, IRELAND**



The **7<sup>th</sup> EUGEO Congress on the Geography of Europe** is scheduled to take place in Galway, Ireland from May 15<sup>th</sup> - 18<sup>th</sup> 2019. The Geographical Society of Ireland and NUI Galway are delighted to co-host the EUGEO Congress 2019 incorporating the 51<sup>st</sup> Conference of Irish Geographers.

The theme for the 2019 Congress is '**Re-imagining Europe's future societies and landscapes**'. The theme focuses on the centrality of the concepts of society and landscape within the Discipline of Geography and the importance of the relationship that exists between the physical and cultural landscape. This conference will offer participants the opportunity to reflect on and re-imagine futures within the geographical boundary of Europe. The overarching theme will be reflected throughout the conference programme and themed fieldtrips. It is expected that this broad and inclusive theme attracts a wide variety of geographers with a range of physical, social, cultural, political and environmental research interests.

**IMPORTANT DATES:**

- **Friday 1<sup>st</sup> February 2019:** Call for papers closes; early bird registration closes
- **Friday 15<sup>th</sup> March 2019:** Provisional programme published

Further details can be found on the conference website: <http://www.geographicalsocietyireland.ie/>

**MAY 27-31, 2019. COASTAL SEDIMENTS`19. TAMPA/ ST. PETERSBURG, FLORIDA, USA**

*Coastal Sediments* is an international coastal science and engineering conference which has been held every four years since 1977, alternating with its sister conference, Coastal Dynamics. Approximately 300 coastal engineers and scientists attended Coastal Sediments 2015 in San Diego, California, USA from 27 countries. The Coastal Sediments Proceedings, published by World Scientific, are peer-reviewed and have a high impact on the coastal science and engineering community as tracked by Google Scholar.



*Coastal Sediments 2019 (CS19)* is the 9<sup>th</sup> Conference in the Coastal Sediments Series. CS19 will be held in Tampa/St. Petersburg, FL, with the theme of "**Advancing Science & Engineering for Resilient Coastal Systems**". Oral and poster presentations and accompanying papers will be selected from abstracts submitted on a variety of topics including special sessions.

**Session Topics:**

- Barrier Islands
- Beaches
- Beach Nourishment
- Beneficial Use of Dredged Sediment
- Climate Change & Sea Level Rise
- Coastal Bluffs & Cliffs
- Coastal Dunes & Aeolian Processes
- Coastal Marsh Morphology & Vegetation
- Cohesive Sediments & Muddy Coasts
- Coastal Structures Morphologic Response
- Coupled Natural-Human Systems Modeling in the Coastal Zone
- Ecomorphodynamics
- Gravel Sediment Transport
- Large-Scale Coastal Behavior
- Long-term Coastal Evolution
- Inlets & Navigation Channels
- Measurement Techniques in the Coastal Zone
- Regional Sediment Management
- River Deltas
- Working/Engineering with Nature
- Case studies

**Important Dates:**

**01/12/2018 Registration Open**

**01/02/2019 Full Papers Due**

**For more information see the conference webpage:** <http://coastalsediments.cas.usf.edu/>.

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## **HIGHLIGHTS & FEATURES**

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### **THE INTERNATIONAL SCIENCE COUNCIL AND THE INTERNATIONAL GEOGRAPHICAL UNION: AN UPDATE**

**The International Science Council (ISC)** was created in 2018 as the result of a merger between the International Council for Science (ICSU) and the International Social Science Council (ISSC). It is a non-governmental organization with a unique global membership that brings together ~40 international scientific Unions and Associations and more than 140 national and regional scientific organizations including Academies and Research Councils. It is the only international non-governmental organization bringing together the natural and social sciences and the largest global science organization of its type. **The vision of the Council is to advance science as a global public good**, emphasising that scientific knowledge, data and expertise must be

universally accessible and its benefits universally shared and that the practice of science must be inclusive and equitable, with opportunities for scientific education and capacity development. See: <https://council.science/>.

The ISC Governing Board comprises President, Professor Daya Reddy (University of Cape Town, South Africa), President-elect Sir Peter Gluckman (University of Auckland, New Zealand), Vice-President Professor Elisa Reis (Federal University of Rio de Janeiro, Brazil), and Jinghai LI who is President of the National Natural Science Foundation of China, together with twelve other distinguished scientists. It is notable that in elections in 2018, both Anna Davies, Professor of Geography at Trinity College Dublin and Ruth Fincher, Distinguished Professor Emeritus at the University of Melbourne were elected to the Governing Board.

The Governing Board released a Communiqué in November 2018; it outlines a high-level strategy as to how ISC intends to meet its overall goal, which is to be recognized and to act credibly as the global voice for science. The board invites feedback on the communiqué and an outline of the Strategic Challenge Domains that it identifies in an accompanying document. See: <https://council.science/publications/high-level-strategy>.

**The mission of the ISC is to act as the global voice for science.** ISC indicates that voice must be powerful and credible in:

- Speaking for the value of all science and the need for evidence-informed understanding and decision-making;
- Stimulating and supporting international scientific research and scholarship on major issues of global concern;
- Articulating scientific knowledge on such issues in the public domain;
- Promoting the continued and equal advancement of scientific rigour, creativity and relevance in all parts of the world; and
- Defending the free and responsible practice of science.

**The four Strategic Challenge Domains are:** 1) the 2030 Agenda for Sustainable Development; 2) The Digital Revolution; 3) Science in Policy and Public Discourse; and, 4) The Evolution of Science and Science Systems.

**The International Geographical Union (IGU)** is one of the member Unions in ISC. IGU promotes the study of geographical problems; initiates and coordinates geographical research requiring international cooperation;



promotes scientific discussion and publication; provides for the participation of geographers in the work of relevant international organizations; facilitates the collection and diffusion of geographical data and documentation in and among its member countries; promotes International Geographical Congresses, Regional Conferences and specialized symposia related to the objectives of the IGU; and

participates in any other appropriate form of international cooperation that advances the study and application of geography. The first International Geographical Congress was held in Antwerp in 1871. Subsequent meetings led to the establishment of the permanent organization in 1922. The IGU's working languages are English and French. See the IGU webpage - <https://igu-online.org/>.

Emeritus Professor Yukio Himiyama is President of IGU. There have been several changes to the IGU Executive Committee following two sets of elections in 2018. Professor RB Singh was elected as Secretary-General and Treasurer of IGU for the period 2018-2020 and Professor Mike Meadows, former Secretary-General, has been appointed as Assistant to the newly elected Secretary-General and Treasurer.



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The **Strategic objectives of IGU** are:

- The IGU should be a truly global organization
- The IGU should play a leading role in territorial and environmental research
- The IGU should promote geography and to be better integrated in the international media space
- Geographical education should be a focus of IGU activity

The **main general purposes** of the IGU's activity in 2015-2022 will be:

- to participate in the coordination of research, the discussion of their results and the elaboration of major international documents on global and regional problems of sustainable development; to promote the studies contributing to the improvement of the quality of life, modernization of economy, social justice and environmental security by the means of regional, urban and landscape planning;
- to work out and to coordinate international initiatives concerning the protection of bio- and cultural diversity, natural and cultural heritage, geographical and environmental education and the dissemination of geographical knowledge;
- to stimulate a creative interaction between geography and other Earth and social sciences, as well as cooperation and integration between natural and social wings of geography;
- to support modernization of geographical studies through the application of the newest ICT methods, the use of data bases and integration with technical sciences;
- to promote geography in international governmental organizations and at the national level, contribute to its better visibility for decision-makers and business community, in society at large.

The **Commission on Coastal Systems (CCS)** is one of the Commissions within IGU. The CCS has a website that can be found at: <http://www.igu-ccs.org/>. Contact information for CCS Officers and Steering Committee members can be found on the website along with past and present newsletters.

If you are interested in becoming a member of the CCS, an on-line membership form is available.



The official **Newsletter of the Coastal Education and Research Foundation, *JUST CERFing***, is available for viewing at: <http://cerf-jcr.org>, under the JCR CONTENT heading. The Newsletter has information about the current issue of the Journal of Coastal Research, series of short articles, as well as information on the Special Issues of the journal and recently published books. It is an extremely well-produced review of the materials conveyed by the Foundation.

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**The Sand Dune and Shingle Network** (<http://coast.hope.ac.uk/>) is based within the Geography and Environmental Sciences Department at Liverpool Hope University and has the major aim to conserve sand dunes and shingle as dynamic landscapes. The Network currently includes, amongst others, many of the following groups: site managers, national policy makers, students and researchers, biodiversity officers, ecologists, geomorphologists and hydrologists and most recently coastal engineers, golf course managers, tourism interests, forestry interests, military sites, landscape historians etc. It has over 290 full members. The Network operates by sharing information across different sectors and disciplines. The common interest is the natural resource and a desire to find sustainable solutions to conservation issues.

**The founder and Director of the Sand Dune and Shingle Network is Prof. Paul Rooney**, an environmental geographer and Senior Lecturer at Liverpool Hope University. Paul is regarded as an international expert in coastal sand dune conservation and management, and is research active and widely published in this area. He is one of the members to the CCS Steering Committee.

**The Newsletter of Sand Dune and Shingle Network** is available for reading at: <http://coast.hope.ac.uk/publications/>. The publications are open accessed and free for distribution. The Newsletter highlights results of networking, projects and publications, as well as opportunities for conferences, study tours, workshops and cooperation. It is distributed to about 540 contacts in the UK and worldwide.

The **Sand Dune and Shingle Network** also operates as part of a developing European network and works closely with the Coastal and Marine Union (EUCC). To find more on this please visit: [http://www.eucc.net/en/european\\_dune\\_network/index.htm](http://www.eucc.net/en/european_dune_network/index.htm).

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The **Coastal Update** has been published monthly since 1997 by the Atlantic Coastal Zone Information Steering Committee (ACZISC), now known as COINAtlantic (Coastal and Ocean Information Network Atlantic). Readers may review the archived issues of the Coastal Update in the COINAtlantic website (<https://coinatlantic.ca/>) newsletter section. Please feel free to circulate the Coastal Update among your networks and members. Note that items

included do not imply endorsement by COINAtlantic or its member agencies. Please visit the COINAtlantic [Facebook](#), [Twitter](#), [YouTube](#), and the COINAtlantic website: <https://coinatlantic.ca/> for regular updates and event listings.

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**Coastal Care** (<http://coastalcare.org/>) is a non-profit **Santa Aguilá Foundation** dedicated to defending the beaches and shorelines of our shared planet.

The mission of **Coastal Care** includes:

- Produce a comprehensive curriculum for children to learn about the importance of coastlines, and empower them to act to protect this crucial environment;
- Raise awareness of the many unsustainable practices that are harming the world’s beaches and coasts;
- Educate children about the science of natural beaches and empower them to act to protect their coastal environment;
- Advocate for sensible, science-based policies and regulations that will protect and preserve coastlines and beaches around the world; and
- Mobilize individuals to recognize and address global issues of coastal management.

There is a section “**Beach of the Month**” with published contributions of interesting stories about beaches across the world. Visit the website of **Coastal Care** to learn and read more about this great initiative: <http://coastalcare.org/sections/features/beach-of-the-month-features/>.

futurearth  
coasts



land-ocean interactions in the coastal zone

Change, contributes to achieving the SDGs (Sustainable Development Goals) and social learning. FECoasts provides a platform for networking and delivering ‘added value’ to the outputs of our community to explore and understand the drivers and social-environmental impacts of global environmental change in coastal zones.

FECoasts aims to:

- Strengthen global partnerships between researchers, funders and users of research
- Enable integrated research on grand challenges and transformations to sustainability
- Communicate science to society and society to science

The FECoasts vision is to support transformation to a sustainable and resilient future for society and nature on the coast by facilitating innovative, integrated and impactful science. Future Earth Coasts is hosted by the Centre for Marine and Renewable Energy (MaREI), the work is guided by a Scientific Steering Committee and implemented by an International Project Office.

For more information visit: <http://www.futureearthcoasts.org/>

Join the conversation at: <http://www.futureearthcoasts.org/contact-us/>

Social media: [Follow us](#) | [Like us](#) | [Link with us](#)

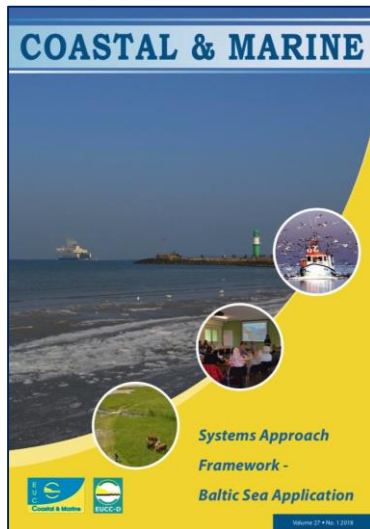


**JOIN THE CONVERSATION**

Become part of our community by joining our mailing list and find out more about how you can contribute to the delivery of the Future Earth Coasts project.



## COASTAL & MARINE



**COASTAL & MARINE** (formerly COASTLINE) is the illustrated magazine of the Coastal & Marine Union (EUCC).



The publication aims at those professionally involved in coastal management, planning and conservation in Europe. It covers various topics related to EUCC work, ranging from coastal and marine management and planning to nature protection and climate change.

The magazine archive is available at the EUCC website: <https://www.eucc.net/nl/eucc-publications>

To read the Nr. 1 - 2018 Coastal & Marine follow the link below:

['Coastal & Marine' Nr.1 - 2018](#)

[http://eucc-d-inline.databases.eucc-d.de/files/documents/00001199\\_coastalandmarine\\_2018-1.pdf](http://eucc-d-inline.databases.eucc-d.de/files/documents/00001199_coastalandmarine_2018-1.pdf)

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## CALL FOR CONTRIBUTIONS TO SPECIAL ISSUES

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### JOURNAL OF AFRICAN EARTH SCIENCES

**Editors in chief:** Mohamed Abdelsalam, Damien Delvaux and Read Mapeo

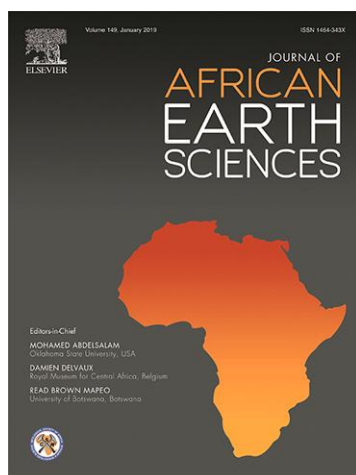
#### **SPECIAL ISSUE: COASTAL HAZARDS IN AFRICA**

The Organisation Committee of the 1<sup>st</sup> Edition of the International Conference on Coastal Hazards in Africa (COASH\_Africa 2018) is launching a call for papers to be published in the international journal indexed "*Journal of African Earth Sciences*" after review by the scientific committee.

#### **KEY DATES**

**Start of submissions:** December 01 - 2018

**Paper submission deadline:** February 28 - 2019



#### **Main Topics:**

- *Erosion and coastal flooding hazards in Africa:*
  - Coastal systems dynamics (continental and marine influences);
  - Shoreline mobility (indicators, processes, coastal cliffs landslides, anthropogenic effects, Holocene, ...);
  - Coastal flooding (sea levels, extreme events, sedimentary and historical archives, processes, ...);
  - Climate change and risks of coastal erosion and flooding in Africa.
- *Pollution and oil spill risks*

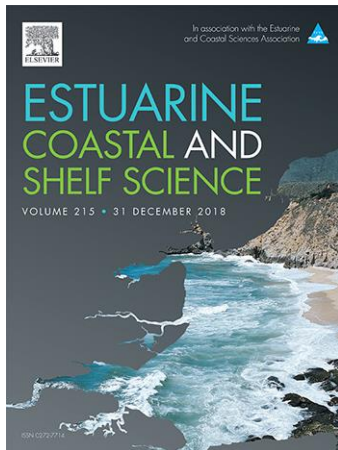
- Land occupation and use in African coastal areas;
- Water quality (marine and continental) and pollution in coastal areas;
- Maritime traffic and oil spill risks in African coastal areas;
- Anthropogenic loads and natural disasters in Africa: ecological sensitivity of coastal areas.
- *Coastal hazards management in Africa*
  - Socioeconomic consequences;
  - Coastal facilities vs coastal risks;
  - Management (stakeholders, territories, public policies, decisions, regulations, networks): Examples from African countries;
  - GIS: Coastal systems planning and management tools;
  - Integrated Coastal Zone Management and Maritime Spatial Planning: Examples of projects implemented in Africa (interdisciplinary, systemic approaches ...).

**Contributions can be submitted to the editors of this special issue:**

- Mohamed Maanan: [Mohamed.Maanan@univ-nantes.fr](mailto:Mohamed.Maanan@univ-nantes.fr)
- Driss Nachite: [nachited@yahoo.fr](mailto:nachited@yahoo.fr)
- Abdelmounim El M'rini: [aelmrini@gmail.com](mailto:aelmrini@gmail.com)

<http://coastalhazardsafrica.uae.ma/site/>

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## ESTUARINE COASTAL AND SHELF SCIENCE

### SPECIAL ISSUE: ESTUARIES AND COASTS OF THE SOUTHERN HEMISPHERE

**Editors:** Kerrylee Rogers (Australia), Débora de Freitas (Brazil), Janine Adams (South Africa) and Colin Woodroffe (Australia)

Coasts and estuaries of the southern hemisphere share key characteristics. In contrast to better studied systems of the northern hemisphere, many of these coastlines are subjected to high energy wave conditions, and have experienced relatively stable sea level, at or above present, for several millennia, resulting in comparable coastal plains and estuarine geomorphology. Spanning a large latitudinal range from tropical to temperate and exposed to minimal circumpolar circulation, coasts and estuaries of the southern hemisphere also exhibit remarkably similar climates that in combination with comparable geomorphology influences the composition and distribution of estuarine vegetation and fauna. Drawing upon research undertaken in this region and with the intention of sharing scientific knowledge, the special issue will contain a selection of papers discussing similarities in coastal and estuarine geomorphology, ecology, function, services and human well-being.

This special issue arises from a themed session, entitled *‘Similarities, stressors and sustainability of southern hemisphere estuaries on wave-dominated coasts’*, held at the ECSA57 (Estuarine Coastal Sciences Association) conference in Perth, Western Australia in September 2018. Additional papers that address depositional coasts, and particularly estuarine and lagoonal systems, south of the equator are welcome.

#### **KEY DATES**

**Papers submission deadline:** March 31 - 2019

**Papers acceptance deadline:** July 31 - 2019

**Special Issue expected publication date:** December - 2019

Please contact Colin Woodroffe for more details: [colin@uow.edu.au](mailto:colin@uow.edu.au)

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Volume 167

1 January 2019

ISSN 0964-5691

# Ocean & Coastal Management

Editor-in-Chief  
Victor N. de Jonge  
Associate Editors  
Xiuzhen Li  
Monica Ferreira da Costa



## OCEAN & COASTAL MANAGEMENT

**Editor in chief:** Victor de Jonge

### SPECIAL ISSUE: CURBING THE INEXORABLE RISING ON MARINE LITTER

**Editors:** Allan Williams (Wales), Monica Ferreira da Costa (Brazil) and Nelson Rangel-Buitrago (Colombia)

Currently, many coastal and marine areas are facing chronic marine litter issues requiring adequate management strategies. Any management strategy must be the optimal alternative to address marine litter issues at different levels. This Special Issue wants to introduce works related to the optimal implementation of management strategies to curbing the inexorable rising on the marine litter to:

- Identify significant marine litter issues.
- Develop an understanding of the underlying processes contributing to rising on marine litter.
- Develop and evaluate options for marine litter management.
- Facilitate community input on marine litter issues.
- Assist planning for the delivery of marine litter management options.

Articles from all relevant disciplines within marine litter management topic are invited, but it is important to highlight that all contributions must make clear the explicit link between fundamental concepts and the improvement of management practice. Comparative studies (e.g., sub-national, cross-national, to other policy areas) are encouraged, as are studies assessing current management approaches. Articles involving analytical procedures, development of theory, and improvement of management practice are especially welcome.

#### **KEY DATES**

**Papers submission deadline:** April 15 – 2019

**Papers acceptance deadline:** August 15 – 2019

**Special Issue expected publication date:** December – 2019

Please contact Nelson Buitrago for more details: [nelsonrangel@mail.uniatlantico.edu.co](mailto:nelsonrangel@mail.uniatlantico.edu.co)



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## OCEAN & COASTAL MANAGEMENT

**Editor in chief:** Victor de Jonge

### SPECIAL ISSUE: VULNERABILITY ASSESSMENTS AS A TOOL FOR THE COASTAL AND MARINE HAZARDS MANAGEMENT

**Editors:** Giorgio Anfuso (Spain), Jarbas Bonetti (Brazil), William J. Neal (USA) and Nelson Rangel-Buitrago (Colombia)

This Special Issue of Ocean & Coastal Management Journal is in response to the high number of manuscripts on the general topic of Coastal Vulnerability

Indices (CVIs), and the exponential growth in related papers in the literature. This special issue is to provide a focal point for some of these related current studies and, in part, to seek a commonality in nomenclature and application, particularly in regard to Coastal Management.

Articles from all relevant disciplines within range of topics from coastal-hazard evaluation, defining vulnerability/sensitivity, and risk assessment are invited. However, all contributions must make explicit clear links between fundamental concepts such as CVIs and the improvement of management practices. Comparative studies (e.g., sub-national, cross-national, to other policy areas) are encouraged, as are studies assessing current management approaches. Articles involving analytical approaches, development of theory, and improvement of management practice are especially welcome. Such topics as CVIs should not be developed in a vacuum, so 'new' approaches should also provide some indication of strengths or weaknesses compared to similar published approaches.

### **KEY DATES**

**Papers submission deadline:** April 15 – 2019

**Papers acceptance deadline:** August 15 – 2019

**Special Issue expected publication date:** December – 2019

Please contact Nelson Buitrago for more details: [nelsonrangel@mail.uniatlantico.edu.co](mailto:nelsonrangel@mail.uniatlantico.edu.co)

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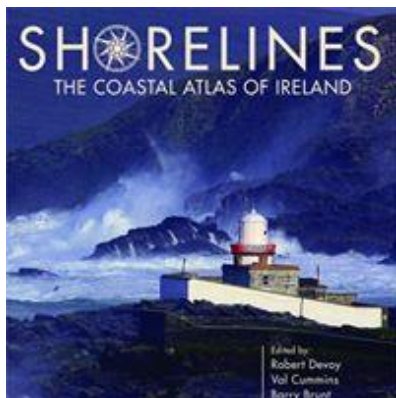
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## **BOOKS ON COASTAL TOPICS**

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### **SHORELINES: THE COASTAL ATLAS OF IRELAND**

**Editors: Robert Devoy, Valery Cummins, Barry Brunt, and Darius Bartlett**



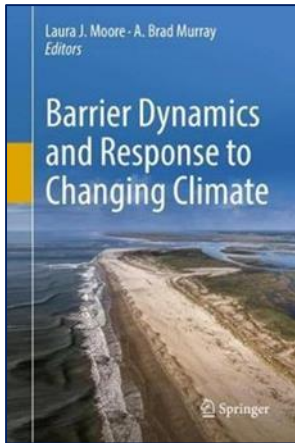
Work is currently underway on *Shorelines: The Coastal Atlas of Ireland*, edited by Robert Devoy, Valery Cummins, Barry Brunt, and Darius Bartlett, with cartography by Sarah Kandrot and digital production by Maxim Kozachenko. A 500-page, 34-chapter compendium of the Irish Coast, the publication involves the work of over 20 authors and is due to be published by Cork University Press in 2019 as part of the atlas series from the Department of Geography at University College Cork.

Although there are existing publications on Ireland's coastal geology, physical geography and landscapes, these are fragmented, generally now out of date, and mostly of a local nature. Likewise, books covering the historical and cultural aspects of the coast tend to be restricted, either thematically or in terms of their geographical coverage. There is no single text looking at the coastline of the island of Ireland as a whole, from both the physical and human environmental perspectives. *Shorelines: The Coastal Atlas of Ireland* aims to fill this gap. Containing a rich assortment of maps, historical and modern photographs, diagrams and infographics, along with text written by acknowledged experts in their respective fields, it is hoped that the atlas will resonate with everyone who has a connection to Ireland, and anyone interested in the coastal landscape of the island.

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## BARRIER DYNAMICS AND RESPONSE TO CHANGING CLIMATE

By **Laura J. Moore (Editor)**, **A. Brad Murray (Editor)**



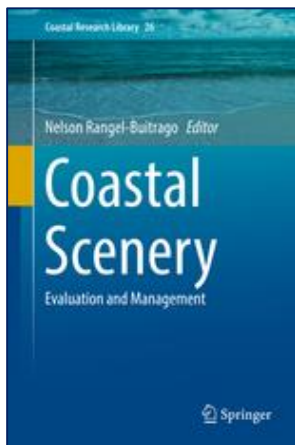
This book presents chapters, written by leading coastal scientists, which collectively depict the current understanding of the processes that shape barrier islands and barrier spits, with an emphasis on the response of these landforms to changing conditions. A majority of the world's population lives along the coast at the dynamic intersection between terrestrial and marine ecosystems and landscapes. As narrow, low-lying landforms, barriers are especially vulnerable to changes in sea level, storminess, the geographic distribution of grass species, and the rate of sand supply—some barriers will undergo rapid changes in state (e.g., from landward migrating to disintegrating), on human time scales. Attempts by humans to prevent change can hasten the loss of these landforms, threatening their continued existence as well as the recreational, financial and ecosystem service benefits they provide. Understanding the processes and interactions that drive landscape response to climate change and human actions is essential to adaptation. As managers and governments struggle to plan for the future

along low-lying coasts worldwide, and scientists conduct research that provides useful guidance, this volume offers a much-needed compilation for these groups, as well as a window into the science of barrier dynamics for anyone who is generally interested in the impacts of a changing world on coastal environments. Springer, 2018: <https://www.springer.com/us/book/9783319680842>.

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## COASTAL SCENERY EVALUATION AND MANAGEMENT

**Editors: Rangel-Buitrago, Nelson (Ed.)**



This book describes an easy to apply methodology to determine the scenic value of a coast. As one of the most critical aspects of beach user choice, the determination of coastal area scenic quality is of primordial importance. This book is, therefore, an extremely useful tool for any coastal lovers, being them users, teachers, researchers, or managers. In particular, this work is the first book to present a semi-quantitative analysis of coastal scenery based on more than 4,000 interviews about people's desired coastal imaginary. Twenty-six parameters can be used to identify any coastal scene, which have then been sub-divided into five attribute categories, weighted and subjected to fuzzy logic mathematics to obtain a decision number (D). This number D represents the coastal scenery at that point, and Five D classes are then presented (from I-excellent, to V-poor). Heritage areas, like National Parks should lie in Class I, which infers top scenic quality. Over a time span of a decade or so, the authors of this book have assessed more than 900 global locations using the technique given in

this book. One of the main aims of this method is to point out how scenic areas may be improved by judicious intervention relating to parameters, mainly anthropogenic, chosen for assessment.

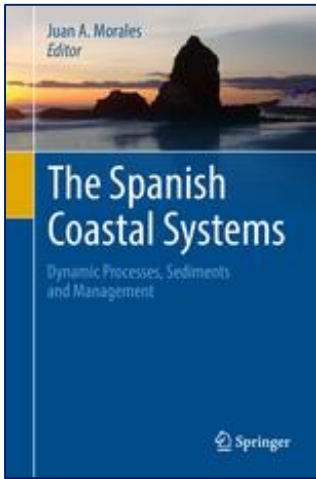
The content of this book opens perspectives for analysis of the potential for coastal tourism development in natural areas and for landscape quality improvement in current coastal tourist developed areas. Springer, 2019: <https://www.springer.com/us/book/9783319788777>.

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## THE SPANISH COASTAL SYSTEMS

### Dynamic Processes, Sediments and Management

Editors: Morales, Juan A. (Ed.)



This monograph presents the state of art of the geologic knowledge about the Spanish coast obtained through scientific research in the last 30 years. From a general point of view, coasts are the most quickly changing systems of the Earth. This is critical, since many human resources, such as the main part of economic and social activities, are located in the coastal areas. Especially in the case of Spain these coasts include cities, wide industrial areas (including harbor complexes), important ecologic systems, and our main economic resource: tourism. Understanding the dynamic functioning of each element of this coast is vital for correct future coastal management, so as to solve problems derived from bad plans developed in the last decades of the twentieth century. Springer, 2019: <https://www.springer.com/us/book/9783319931685>.

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## COASTS AND ESTUARIES: THE FUTURE

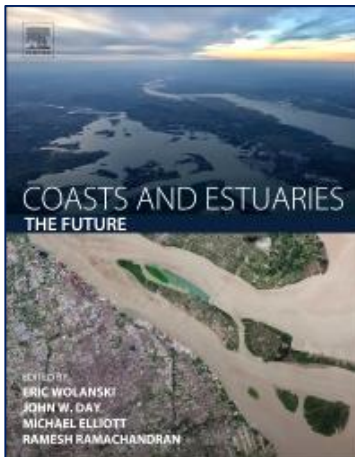
1<sup>st</sup> Edition

Editors: Eric Wolanski, John Day, Mike Elliott, Ramachandran Ramesh

Paperback ISBN: 9780128140031

Imprint: Elsevier

Published Date: 1<sup>st</sup> January 2019



*Coasts and Estuaries: The Future* provides valuable information on how we can protect and maintain natural ecological structures while also allowing estuaries to deliver services that produce societal goods and benefits. These issues are addressed through chapters detailing case studies from estuaries and coastal waters worldwide, presenting a full range of natural variability and human pressures. Following this, a series of chapters written by scientific leaders worldwide synthesizes the problems and offers solutions for specific issues graded within the framework of the socio-economic-environmental mosaic. These include fisheries, climate change, coastal megacities, evolving human-nature interactions, remediation measures, and integrated coastal management.

The problems faced by half of the world living near coasts are truly a worldwide challenge as well as an opportunity for scientists to study commonalities and differences and provide solutions. This book is centered around the proposed DAPSI (W)R(M) framework, where drivers of basic human needs requires activities that each produce pressures. The pressures are mechanisms of state change on the natural system and impacts on societal welfare (including well-being). These problems then require responses, which are the solutions relating to governance, socio-economic and cultural measures (Scharin et al 2016). **ELSEVIER, 2019:** <https://www.elsevier.com/books/coasts-and-estuaries/wolanski/978-0-12-814003-1>.

**The organization of the IGU Commission on Coastal Systems and the current member list of the Steering Committee of the CCS is as follows:**

**Chair since 2015/ Président**

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School of Earth Atmospheric and Life Sciences,  
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**Secretary/Secrétaire, Editor of Newsletter**

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***Steering Committee Members***

**Prof. Edward J. Anthony (past Chair)**

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CEREGE, UMR CNRS 6635,  
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13545 Aix en Provence Cedex 4,  
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The IGU Commission on Coastal Systems (CCS) website is at: <http://www.igu-ccs.org/>.

Contact information for CCS Officers and Steering Committee members can be found on the website along with past and present newsletters. If you are interested in becoming a member of the CCS, an on-line membership form is available at the end of the Newsletter.

R.B. Singh, Professor at the Department of Geography, Delhi School of Economics, University of Delhi, General Secretary of the International Geographical Union (IGU), is our liaison with the executive committee of the IGU: [rbsgeo@hotmail.com](mailto:rbsgeo@hotmail.com).

## THE STEERING COMMITTEE MEMBERS: WHO WE ARE

### Colin Woodroffe (CCS Chair since 2015)



Colin is Professor in the School of Earth and Environmental Sciences at the University of Wollongong. He has a PhD and ScD from the University of Cambridge. Colin has studied the stratigraphy and development of coasts in Australia and New Zealand, as well as on islands in the West Indies, and Indian and Pacific Oceans. He has written a comprehensive book on *Coasts, form, process and evolution*, co-authored a book on *The Coast of Australia*, and is also co-author of a book *Quaternary Sea-Level Changes: a global perspective*. Colin was a lead author on the coastal chapter in the 2007 Intergovernmental Panel on Climate Change (IPCC) Fourth Assessment report. He teaches coastal geomorphology and the application of geospatial techniques to coastal environments.

### Margarita Stancheva (CCS Secretary, Editor of Newsletter)



Margarita is Co-founder and Director of the Center for Coastal and Marine Studies (CCMS) in Bulgaria. She has special interests in coastal geomorphology, coastal processes, sand beaches/dunes, coastal erosion/cliff retreat, shoreline changes, MSP and sustainable coastal development. She has a PhD in Oceanology with thesis: "Beach dynamics and modifications under impact of port and coast-protection structures". Since 2009 she has been convener of Geomorphology Session at the EGU General Assembly: "Coastal zone geomorphologic interactions: natural versus human-induced driving factors". Research Fellow to the Programme for the Study of Developed Shorelines (PSDS), WCU – USA. Author of a chapter for Bulgaria in a book on *Coastal Erosion and Protection in Europe - A Comprehensive Overview*, co-author in coastal atlas on *Sensitivity Mapping and Analysis of the Bulgarian Black Sea Coastal Zone* and primary author of a book on *Burgas Case Study: Land-Sea Interactions*.

## Edward Anthony (Past Chair)



Edward Anthony is currently professor of coastal geomorphology at Aix-Marseille University and Editor-in-Chief of Marine Geology. Author of nearly 130 published papers, E.A. has carried out research over the last 30 years on the Amazon-influenced coasts of South America, the coasts of West Africa, the Mediterranean, the English Channel and North Sea coasts, and recently the Mekong and Irrawaddy River deltas. His scientific interests focuses on the inter-related connections between the human and natural dimensions of coasts, and how human activities and developments impact on coastal geomorphology, sediment dynamics, ecology and management, especially in the face of global change, sea-level rise and sediment supply perturbations on river systems. A particular area of focus is river deltas, largely based on experimental field (measurements and observations) and laboratory work, and employs innovative techniques in remote sensing and modelling based on statistical and cartographic data. This activity is supported by various on-going grants and projects and involves collaboration with French universities, the IRD, Japanese, American, Indian, Vietnamese and Moroccan colleagues specialised in coastal studies. EA has supervised nearly 30 PhD theses, and teaches at both undergraduate and post-graduate levels.

## Françoise Breton



Emeritus Professor at the Universitat Autònoma de Barcelona, she is involved in research on coastal and sea socio-environmental systems and resource management. Anthropologist, geographer and environmental science expert, work focused on integrated management, co-management of ecosystems and habitats, and governance. Formed in Paris X University, later at the Boston University (1978-1980), and at the UAB, she created and directed the Centre for Sea study in Sitges, Barcelona Diputació (1981-90), working on fisheries, fishermen knowledge, and fishery anthropology in collaboration with A. Geistdorffer and the Museum of Natural History of Paris. Head of the UAB Interfase Research Group since 1990. After different collaborations with international institutions in Europe, she coordinated the EU FP7 project PEGASO, on ICZM and governance in the Mediterranean and the Black Sea (2010-2014), She developed with IRD responsible research with local communities on ecosystem services and food security in the West-African coast. Since 2015, she focussed research on marine mammals in the Arctic and their interactions with people, collaborating with the Norwegian College of Fishery Sciences, University of the Arctic - Tromsø, and the Svalbard University, Norway. The Research Center on the ARCTIC was Inaugurated the 1<sup>st</sup> December 2017 at the Universitat Autònoma de Barcelona, together with the 2017 Stefansson Memorial Lecture, by the Stefansson Arctic Institute (Iceland), where she is Associate Professor, and the Institute of Arctic Studies, Dartmouth College, USA. In February 2016, she awarded the Narcís Monturiol medal of the Catalan govern in recognition to her high research and innovation trajectory.

## David Green



David is Director of the Aberdeen Institute for Coastal Science and Management (AICSM); Director of the M.Sc. Degree Programme in Geographical Information Systems (GIS); and Director of the UAV Centre for Environmental Monitoring and Mapping (UCEMM) at the Department of Geography and Environment, University of Aberdeen, Scotland, United Kingdom. His interests lie with Remote Sensing, UAVs, GIS and Mobile GIS, Digital Mapping and Hydrography, Coastal Management, and Marine Spatial Planning (MSP).

## Paolo Ciavola



Paolo is an Associate Professor of Coastal Dynamics and Geomorphology in the Department of Physics and Earth Sciences of the University of Ferrara, where he teaches Physical Geography and Geomorphology, Coastal Risk, GIS and Remote Sensing. His current main research interests include coastal processes, the impact of climate change on coastal morphology, the role of extreme storm events in generating coastal risk, river delta and estuarine dynamics, sedimentation in coastal lagoons. He is on the Editorial Board of the Journal of Coastal Research, Continental Shelf Research and the Journal of Integrated Coastal Zone Management of Portuguese Speaking Countries. He was an expert reviewer of the IPCC WGII AR5 report- Europe Chapter and is currently a Science Officer of the European Geoscience Union for the Natural Hazard sub-group. Recently he has published for Wiley two books dealing with coastal storms (*Management of the Effects of Coastal Storms: Policy, Scientific and Historical Perspectives*; *Coastal Storms: Processes and Impacts*).

## Abdelmounim El M'rini



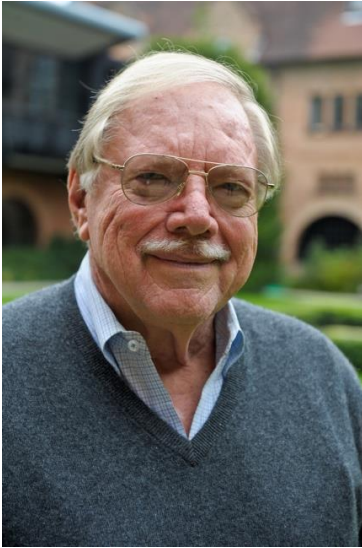
Abdelmounim is Professor at the Department of Earth Sciences at Abdelmalek Essaâdi University of Tetouan (Morocco). He has a PhD from Abdelmalek Essaâdi University and from Nantes University (France). His research activities focus on the characterization of coastal systems and the impacts of human activities on their processes at the short, medium and long terms. He has participated at many projects that focus on coastal areas with technical approaches (coastal morphodynamics, coastline kinematics, impact of coastal facilities, coastal flooding hazards, sedimentological, geochemical and isotopic studies), as well as coastal planning and management (in this context, in Integrated Coastal Zone Management projects). This works are done mainly in collaboration with Moroccan, French, Spanish and Italian colleagues. He teaches coastal geomorphology, interactions on coastal systems, Integrated Coastal Zone Managements and the application of remote sensing to coastal environments.

## Jeffrey Ollerhead



Jeff Ollerhead is a member of the Geography and Environment Department at Mount Allison University in Sackville, NB, Canada. He is a coastal geomorphologist who studies beaches and salt marshes. In recent years, he has been particularly involved in designing and monitoring salt marsh restorations in the upper Bay of Fundy. He was Dean of Science and Graduate Studies for 10 years and is now Provost and VP, Academic and Research, at Mount Allison.

## Norbert Psuty



Norb is Professor Emeritus at Rutgers University and is currently Director of the Sandy Hook Cooperative Research Programs. He is a coastal geomorphologist whose research encompasses the dynamics of the coastal zone, incorporating process-response studies of beaches, coastal dune processes and morphology, sediment budget studies, barrier island dynamics, estuarine sedimentation, and sea-level rise. His research has been conducted primarily in various portions of coastal New Jersey and New York and it has both a basic science component as well as an applied side. He has been and continues to be consultant to the U.S. National Park Service and the U.S. Fish and Wildlife Service on shoreline dynamics and change in coastal parks and refuges.

## Paul Rooney



Paul is the Deputy Head for the Department of Geography and Environmental Science at Liverpool Hope University, United Kingdom. Following studying at university, Paul became a Coastal Ranger on the Sefton Coast, the largest area of open dunes in England. In 1995 he was appointed as the Project Officer for an EU funded LIFE-Nature project to implement species and habitat restoration and to develop a conservation strategy for the Special Area of Conservation (SAC) for that dune coast. Paul joined the Liverpool Hope University in 1999 and established the UK Sand Dune and Shingle Network in 2006. The aim of the network is to help to conserve sand dunes and shingle as dynamic landscapes by linking science and management. Paul's research interests are mainly in coastal dune ecology, change and management. He is a

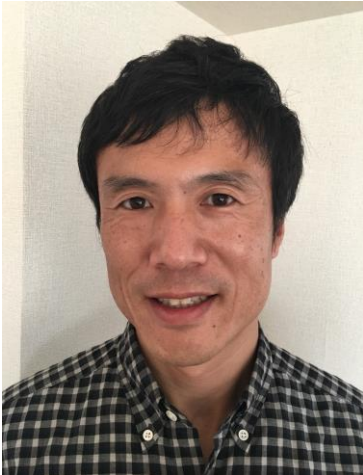
Chartered Environmentalist, a full member of the Chartered Institute of Ecology and Environmental Management, a Chartered Geographer through the Royal Geographical Society (with IBG), and a Fellow of the Higher Education Academy (now part of Advance HE).

## Marinez Scherer



Marinez has a degree in Biological Sciences (Federal University of Santa Catarina / Brazil) and a PhD in Marine Science at University of Cadiz / Spain. She has been teaching Integrated Coastal Management at Federal University of Santa Catarina, and is the Research Leader of the Integrated Coastal Management Group and Laboratory. Marinez is also visiting professor at the University of Cadiz. She is the executive secretary of the Brazilian Sea Forum and the Technical Director of the Brazilian Agency for Coastal Management. She is also one of the Brazilian Coordinators of the Ibero American Network on Coastal Management (IBERMAR). Her main research interests are on integrated coastal and marine management, ecosystem based management, coastal and marine protected areas, and networks.

## **Toru Tamura**



Toru is senior researcher at the Geological Survey of Japan, National Institute of Advanced Industrial Science. He has a PhD in Geology at Kyoto University, and is also a visiting associate professor at Graduate School of Frontier Sciences, University of Tokyo. His primary research interest is multi-temporal scale evolution of the coastal landform in sandy beach and muddy deltaic systems. He has studied many coastal systems mainly in Asia and Australia using a combination of sediment cores, radiocarbon dating, optically-stimulated luminescence dating, remote sensing and ground-penetrating radar, for better understanding of the present and predicting future coast. He also manages an OSL dating laboratory at the Geological Survey to enhance the dating of Pleistocene and Holocene coastal landforms and stratigraphy.

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