

newsletter

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Norbert P. Psuty, Co-Editor

Margarita Stancheva, Co-Editor

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/>

Message from the Chair

I would like to wish all members of the Commission on Coastal Systems, and other coastal enthusiasts reading this Newsletter, a successful 2016. The CCS has continued to foster interest and support for coastal research activities and the exchange of ideas through 2015. I have much appreciated the support of steering committee members, but particularly the excellent co-ordination that Norb Psuty continues to bring as Secretary with his tireless dedication to communication and production of this Newsletter.

2016 is a Congress year. The 33rd International Geographical Congress will be held in Beijing in August. I am very pleased that Zhongyuan Chen and Yongqiang Zong are convening a coastal session, sponsored by CCS jointly with IGBP/LOICZ, at this important meeting. I encourage those with a focus on coasts to participate (abstracts close very shortly). The Congress also marks the time when IGU reconsiders its Commissions. I am re-assured by the enthusiasm that has been communicated to me, and I believe we can promote a strong case for the continuation and revitalisation of CCS.

2016 has been designated the International Year of Global Understanding. This exciting initiative is described below in this Newsletter; it promotes cross-disciplinary integration between the sciences and the social sciences and humanities. The coast is an excellent place to develop this greater understanding, and the many threats that are already impacting our coasts will require development of environmental and socio-economic sustainability policies. I believe that we have already taken many of these into consideration in the past, but new initiatives such as this, together with other international programs, such as Future Earth, provide a framework for greater co-operation.

I hope that you will continue to participate in CCS. I would be pleased to hear from coastal scientists with new ideas for how we can promote the Commission and how we can communicate more widely across disciplines and internationally to ensure that the world's coasts are sustainably managed. Please enjoy this Newsletter, and contribute information and reports for inclusion in future editions. I wish to express my thanks to Norb for his editing of these newsletters, and to also thank Margarita Stancheva who has assisted in the editing of this newsletter. We also welcome Paul Rooney to the steering committee. We hope members of the Commission on Coastal Systems will continue to contribute to the promotion of knowledge and exchange of ideas through meetings such as those listed below, and by setting up other initiatives in the name of the CCS!

COLIN WOODROFFE

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

MARCH 29 – APRIL 2, 2016. ASSOCIATION OF AMERICAN GEOGRAPHERS, SAN FRANCISCO, CALIFORNIA USA

Special sessions organized or co-organized by the Coastal and Marine Specialty Group, as well as special session in tribute to H. Jesse Walker.

Jess Walker was an inspiration to many of us through his efforts to reach beyond the confines of a single university or single country. He was an early leader in the development of an international coastal geographical community. He established the first IGU Coastal Commission Newsletter and drew many of us into the international community. What you are reading now is a sign that his efforts continue to bring us together.

The Preliminary Program is available at:

<http://meridian.aag.org/callforpapers/program/index.cfm?mtgID=62>.

**APRIL 17-22, 2016, VIENNA, AUSTRIA, EUROPEAN GEOSCIENCES UNION
Special Session on the Coastal Zone Geomorphological Interactions: Natural Versus
Human-Induced Driving Factors**

The session is sponsored by the Commission on Coastal systems and will be conducted for the eighth time at the EGU General Assembly, Vienna, Austria. The session gives priority to the subjects of coastal geomorphology: evolution of coastal landforms, coastline alterations and various associated processes in the coastal zone, e.g. waves and sediment transport, which shape coastal features and cause morphological changes. Contributions to this session focus on the mechanisms responsible for coastal erosion and shoreline behaviour (advance or retreat) and address the many natural and anthropogenic factors involved. The topics include works on predictions of shoreline change and discussions on the effects of human activities and their continuing contribution to coastal changes. Studies related to the most crucial coastal zone issues with emphasis on ICZM aspects are also included: impacts of global climate changes, associated with severe storms, sea level rise and flooding, low-lying coastal territories, progress of coastal erosion and degradation of sandy beaches. The session also covers 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.

This session is being organized by Margarita Stancheva (Bulgaria), Andreas Baas (UK), Giorgio Anfuso (Spain), Hannes Tonnison (Estonia) and Guillaume Brunier (France) in association with the IGU Coastal Commission.

The deadline for abstract submission has closed. For more information please visit the session link:

<http://meetingorganizer.copernicus.org/EGU2016/session/21095>

Details on oral and poster meeting programs to be forthcoming in early March.

Please contact **Margarita Stancheva** for further information on the special session:

stancheva@io-bas.bg

MAY 3-7, 2016. 2nd Iberoamerican Congress on Integrated Coastal Zone Management: Governance for ecosystem services in coasts and oceans (2nd ICZM Iberoamerica). Florianopolis, Brazil

The 2nd ICZM Iberoamerica will be a platform for dissemination, discussion, knowledge exchange, training and capacity building, contributing to the achievement of global and regional commitments related to the integrated and sustainable management of coastal and marine areas, their ecosystem services and human well-being.

The event is organized and led by the Iberoamerican Network for Integrated Coastal Management (Red IBERMAR), composed of 15 countries. IBERMAR is an organizer along with CEI-MAR - Campus of International Excellence for Sea Studies; Federal University of Santa Catarina; Federal University of Rio Grande do Sul; Federal University of Rio Grande; and the University of Cadiz- Spain. The 2nd ICZM Iberoamerica is also supported by government institutions such as the Brazilian Ministry of Environment and the Secretary of Planning of the State of Santa Catarina, as well as non-governmental organizations such as the Forum do Mar-Brazil.

Main themes of the 2nd ICZM Iberoamerica include:

- Use and human dependence on ecosystem services at coastal and marine areas
- Planning and Management for the sustainable use of oceans and coasts;
- Governance for ecosystem services in oceans and coasts;
- Iberoamerican initiatives / Successful Cases

The Coastal Commission is sponsoring a session on 'Current Approaches for the Analysis of Coastal Vulnerability in Iberoamerica' at the Congress.

Webpage: <http://gial2016.paginas.ufsc.br>

**JUNE 1-5, 2016. 2016 ANNUAL IGU COMB CONFERENCE, ANTALYA, TURKEY
The Mediterranean Sustainability between climate change and human mobility**

The Commission on the Mediterranean Basin (COMB) will hold its annual conference in Manavgat Antalya, Turkey June 1-5, 2016. What better location than Turkey to discuss the relationship between Climate change and impacts on Mediterranean area, with a special emphasis on vulnerable groups, human activities, adaptation and the future of governance. The Antalya Conference will be chaired by Barbaros Gönençgil (Istanbul University and Turkish Geographical Society) and Maria Paradiso (University of Sannio and IGU Commission Mediterranean Basin) and co-sponsored by Turkish Geographical Society,

Ankara University and Istanbul University.

The Coastal Commission is planning to organize a special session under the leadership of Françoise Breton (Universitat Autònoma de Barcelona), (3-4 speaker and discussion). This session is envisaged as an opportunity to begin a collaboration between IGU-CCS and IGU-COMB.

Please communicate your coastal interest to Prof. Breton at; Françoise Breton
<francoise.breton@uab.cat>

Abstract deadline March 1, 2016

Questions may be addressed to Maria Paradiso, paradiso@unisannio.it, or Françoise Breton

**AUGUST 21-25, 2016, 33rd INTERNATIONAL GEOGRAPHICAL CONGRESS,
BEIJING, P. R. CHINA**

The 33rd International Geographical Congress will be held in Beijing on August 21-25, 2016, hosted by the Geographical Society of China. The theme of the 2016 Congress is Shaping Our Harmonious Worlds, which highlights today's common pursuit for harmony between humankind and nature, between environment and society, and for harmonious approaches to the world's hazards and conflicts. A rich variety of field excursions will be organized so as to provide participants a chance to appreciate some of the unique natural features and cultural traditions of the host country.

We are very pleased that **Zhongyuan Chen** and **Yongqiang Zong** have proposed a session on Harmonizing Pacific Coastal Oceans: Sustainability For a Future Earth, jointly supported by CCS and IGBP/LOICZ, and they encourage coastal scientists to consider submitting papers for this theme.

THE DEADLINE FOR RECEIPT OF ABSTRACTS IS FEBRUARY 15, 2016.

For further information on the program, see the website: <http://www.igc2016.org/dct/page/1>
August, 2016: People's Republic of China, International Geographical Congress, Beijing
More details at www.igu-online.org

SEPTEMBER 4-7, 2017. LITTORAL 2017. LIVERPOOL, UK

The conference theme is 'The anthropocene and the littoral - change, naturalness and people'. The anthropocene is claimed by some to be a new geologic epoch, one in which people are now the greatest force shaping the Earth. The theme of Littoral 2017 will explore how humans and human processes influence the littoral, and how these influences may now be viewed as being natural, as much any other natural processes. The theme will gather all disciplines to explore current issues of relevance to the coast. It will be of interest to a wide spectrum of scientists, including those from the physical sciences, climate change scientists and ecologists, social scientists, engineers, policy makers and advisers and practitioners. It is a theme that is of broad geographical interest.

More details to follow on this event, but please contact **Paul Rooney** on dunes@hope.ac.uk for more information.

REPORTS ON MEETINGS

OCTOBER 7-9, 2015. DYNAMIC DUNES, THE NETHERLANDS

The Dutch organisations PWN, Natuurmonumenten and Waternet organised an international conference on rejuvenation of dynamic dunes and restoration of the dune habitats. The congress was held in the framework of EU Life-projects Dutch Dune Revival (LIFE 09 NAT/NL/418) and Amsterdam Dunes, Source for Nature (LIFE 11 NAT/NL/776).

The conference and the reports were drawn up with a financial contribution from the LIFE + Nature instrument of the European Union. The complete conference report can be downloaded from :

<https://awd.waternet.nl/media/projecten/Life/PDF/Rapport%20conference%20Dynamic%20Dunes%202015.pdf>

Extended summaries of the event are also published and available to download in English, German and in French - see

<https://awd.waternet.nl/media/projecten/Life/PDF/Summary%20conference%20Dynamic%20Dunes%202015%20English.pdf>

<https://awd.waternet.nl/media/projecten/Life/PDF/Summary%20conference%20Dynamic%20Dunes%202015%20French.pdf>

<https://awd.waternet.nl/media/projecten/Life/PDF/Summary%20conference%20Dynamic%20Dunes%202015%20German.pdf>

Submitted by Paul Rooney.

TWELFTH INTERNATIONAL CONFERENCE ON THE MEDITERRANEAN COASTAL ENVIRONMENT (MEDCOAST 15), 06-10 OCTOBER 2015 GRIFID BOLERO HOTEL, GOLDEN SANDS, VARNA, BULGARIA

The twelfth biennial MEDCOAST conference in Varna, Bulgaria took place on 06-10 October 2016 to mark the 25th year since the birth of the MEDCOAST ideal. The Commission of Coastal Systems was involved as supporter and collaborator of MEDCOAST 15 Conference.

The main topics of the conference were focused on coastal systems and conservation issues, Integrated Coastal Management (ICM) and management issues, coastal modelling, decision support systems, data management, and sustainable development of coastal areas. Similar to the past eleven events, the technical program of the Varna conference included an opening and keynote session, thematic parallel sessions for oral presentations, several special sessions, a poster session and the closing session, in which the Varna Declaration was discussed and endorsed by the participants and the best poster winners were announced and given prizes.

One full-day Technical Field Trip to many interesting sites along the attractive Bulgarian Black Sea coast was conducted. Manuscripts of ninety six papers, covering a wide range of subjects related to coastal and marine management were published in two-volume conference proceedings totalling 1024 pages. MEDCOAST Conference proceedings have been covered by the major Conference Proceedings Citation Indices such as the ISI Thomson, Scopus and Compendex. Authors of selected manuscripts from the MEDCOAST 15 Conference Proceedings have been invited to submit their papers for possible publication in Special Issues of the leading international journals in the fields of coastal and marine sciences, policy and management.

For more information and details on MEDCOAST 2015 Varna Declaration visit the conference website:
<https://conference.medcoast.net/>

(submitted by Margarita Stancheva)

MEETINGS WITH COASTAL INTEREST

MARCH 6-11, 2016. 14th INTERNATIONAL COASTAL SYMPOSIUM (ICS) 2016. SYDNEY, AUSTRALIA

The 14th International Coastal Symposium (ICS) will be hosted by the [Geocoastal Research Group](#), School of Geosciences at the University of Sydney, under the auspices of the [Coastal Education and Research Foundation \(CERF\)](#) and the *Journal of Coastal Research (JCR)*.

The ICS brings together delegates from all over the world to collaborate and discuss the most current coastal research studies and projects. The proceedings of the conference, published as peer-reviewed special issue of papers in the *Journal of Coastal Research*, represent an invaluable resource for coastal scientists, engineers and managers.

- The meeting will consist of a number of sessions on **coastal science comprising geomorphology, geology, ecology, biology, coastal engineering and coastal management including planning and policy**.
- Keynote speakers will include international leaders in coastal science and engineering with special attention to highlighting Australian expertise.
- Fieldtrips will be organised to showcase local knowledge and study cases, including trips to the Great Barrier Reef and to the coast of NSW.

The call for abstracts has closed.

Visit the website: <http://ics2016.org/>

APRIL 20-23, 2016. 34th ANNUAL CONFERENCE 'GEOGRAPHY OF SEAS AND COASTS' (AMK). GERMANY

The Conference will take place on 20-23 April 2016, in Warnemünde, Germany.

Conference website: <http://www.baltcoast.net/AMK.html>

The AMK allows for a wide spectrum of coastal and marine geography topics, including:

- Coastal zone management
- Marine spatial planning and Geographic Information Systems (GIS)
- Resource management and aquaculture
- Coastal protection and risk management
- Ecosystem services and indicators
- Marine debris and water quality

Abstract submission deadline: 01 March 2016. Contact e-mail: amk2016@eucc-d.de.

JUNE 14-16, 2016. COASTAL ZONE CANADA (CSC) 2016. TORONTO

CZC 2016 will bring together 500 individuals from around the world interested in all aspects of integrated ocean, coastal, lake and watershed management.

The Conference Theme is: Coastal Futures; Resilience through Collaboration. It includes 4 Conference Sub-Themes: *Technical Investigation, Policy and Governance, Planning and Management, Collaboration and Action*. For more details on various topics and other information, visit the conference website:

<http://www.czctoronto2016.com/>

For additional details or questions about the conference, please contact the Chair, Pete Zuzek at czc2016@baird.com. Or reach out to Jen Gibson and Ashley Venton by phone at 905-845-5385.

The abstract submission process will close on January 31, 2016.

AUGUST 22-27, 2016. EMECS 11 – Sea Coasts XXVI Joint Conference "Managing Risks to Coastal Regions and Communities in a Changing World". ST. PETERSBURG, RUSSIA

The Conference will take place on August 22-27, 2016 in St. Petersburg, Russia. Main venue of the Conference will be designated at nearest date and will be announced on the Conference website: <http://www.emecs-sc2016.com/about.html>.

The main conference topics are:

- Coastal systems and their dynamics (from coast to water and from water to coast);
- Coastal erosion and dynamical processes in the nearshore zone;
- GIS & marine spatial planning;
- Climate change in the changing world. Coastal adaptation to climate change;
- Construction and exploitation of hydraulic engineering structures and dredging in the coastal areas;
- Study and monitoring of coastal and marine ecosystems;
- Approaches to and issues of processes in the coastal areas modelling and monitoring;
- Interactions between coastal zone and the open sea: impact on the ecosystems;
- Ecological sensitivity of coastal areas: anthropogenic loads and natural disasters;
- ICZM – case study and new experience;
- Sustainable use and development of coastal resources: effective management and approaches;
- Legal and political issues of enclosed coastal seas management;
- Human resource and indigenous dimension of enclosed coastal seas management.

Main organizers of the Conference:

International Center for Environmental Management of Enclosed Coastal Seas (International EMECS Center);

“Sea Coasts” Working Group of the RAS Council on World Ocean.

For more details please visit the conference website: <http://www.emecs-sc2016.com/about.html>.

Deadline for Abstracts submission: February 1, 2016.

AUGUST 27 – SEPTEMBER 4, 2016. 35th INTERNATIONAL GEOLOGICAL CONGRESS (IGC). CAPETOWN, SOUTH AFRICA

The 35th International Geological Congress will be held in Cape Town, South Africa, between 28 August and 4 September 2016. This is one of the largest international geological congresses, and presented by a different country every fourth year. In 2016, it is the turn of South Africa to present this exciting event - on behalf of the African continent.

The 35th IGC will highlight the region's geoscientific superlatives. The world-famous geology, geoheritage, and the geological and the scenic wonders of South and southern Africa will be comprehensively discussed. Ample opportunity for discussion and debate are provided for by the planned scientific symposia during a diverse scientific programme of oral and poster presentations, workshops, short courses and business meetings. With the cooperation of several other African countries, the aim of the large number of pre- and post-congress excursions and day trips is to allow visitors and delegates their very own experience of the geological superlatives of Africa and southern African. Further highlights of the 35th IGC include a large exhibition and geoscience outreach programmes under the overarching theme: Geology in Society, the Economy and Science, which encompasses all aspects of the geosciences. The focus of these outreach programmes will be the promotion of geoheritage globally, and especially in Africa. A special volume on the geoheritage of Africa is envisaged, which will highlight a number of the most spectacular geological wonders of Africa.

More than forty field trips are planned. The diverse destinations include the Witwatersrand gold fields, the Bushveld Complex, the Karoo sedimentary basin, the Central African Copperbelt, the West African Rift Valley, the Okavango Delta and the Great Dyke of Zimbabwe.

A number of symposia and workshops will also be devoted to the needs of young earth scientists through cooperation with the Young Earth Scientists Network. UNESCO has granted its patronage to the 35th IGC, adding to the relevance of the congress to developing countries.

Visit the IGC website for more details: <http://www.35igc.org/>

Abstract submissions deadline: 31 January 2016.

SEPTEMBER 4-7, 2016. ECSA 56 COASTAL SYSTEMS IN TRANSITION: FROM A 'NATURAL' TO AN 'ANTHROPOGENICALLY-MODIFIED' STATE. BREMEN, GERMANY.

4-7 September 2016 | Maritim Hotel & Congress Centrum Bremen, Germany

Humans are drivers of and affected by global change. Human-induced global climate and regional environmental change dramatically modify the structures and functions of coastal systems driving them into a new system state. The altered resource potentials and ecosystem services then, in turn, significantly affect the livelihoods of the population. Distinguishing between natural and anthropogenic control factors and quantifying their impacts is a major challenge in the investigation of hydrodynamic, sedimentological, biogeochemical, ecological and socioeconomic processes in the coastal zone. Inter- and transdisciplinary efforts are required to gain a profound understanding of these "novel" systems, which provides the basis for a sustainable management.

ECSA 56 will bring together a global multi-disciplinary community of researchers and professionals to discuss and address issues of outstanding scientific importance in the science and management of estuaries and coastal seas in this rapidly changing world.

For more details on conference topics, registration and how to submit an abstract, please visit the website of **ECSA 56 Conference**: <http://www.estuarinecoastalconference.com/>.

Abstract Submission Deadline: 18 March 2016.

SEPTEMBER 12-16, 2016. 41st CIESM CONGRESS – KIEL, GERMANY.

The 41st CIESM (Mediterranean Science Commission) Congress will take place in mid-September 2016 in Kiel, on the Baltic shore, at the kind invitation of the German Government. You are invited to submit online, **between 8 January and 10 March**, one brief illustrated paper- two max.

This Meeting, one of the largest multi-disciplinary forums in marine science, will present a major opportunity not only for researchers working on the Mediterranean and Black Seas, but also to any investigator from the Red Sea all the way to the Kara Sea, including the Atlantic shores, to come and share/ compare/ discuss their scientific approaches and latest findings in some 90 distinct sessions that will cover key issues. The sectors will range from marine geo-sciences, ocean climate, marine food-webs, invasive species, to marine plastics, biotechnology, geo-chemistry and marine policy. Each session will include a 30 minute-debate with the audience.

Visit the **CIESM Congress web pages**: www.ciesm.org/marine/congresses/Kiel.htm for more details on the many Congress themes, on instructions to authors, etc ... From there you will be able to register and submit your paper online.

Please note that authors will benefit of a special (- 40%) discount if register **before 20 February**, with the option to finalize and submit their paper later, provided that they meet the final deadline: **no paper submission will be possible after 10 March 2016.**

OCTOBER 23-26, 2016. LITTORAL 2016. BIARRITZ, FRANCE

The conference theme is expected to be “The changing littoral: Anticipation and adaptation to climate change” - “Littoral en devenir. Anticiper et s’adapter au changement climatique” . The proposed themes are ‘State of the art knowledge on sea-level rising’, ‘Coastal environment conservation’, ‘Integrated coastal zone management’, ‘Sustainable development in coastal zone’, ‘Coastal engineering’ and ‘Fishing and aquaculture’. It is anticipated that there will be a workshop on coastal dunes. The official language will be English. More details to follow from EUCC-France.

DECEMBER 10-15, 2016. 2016 SUMMIT: OUR COASTS, OUR FUTURE, OUR CHOICE. NEW ORLEANS, LOUISIANA

ABOUT THE SUMMIT

Restore America’s Estuaries (RAE) and The Coastal Society (TCS) proudly present the Summit, which will bring together the coastal restoration and management communities for an integrated discussion to explore issues, solutions, and lessons learned in their work. The Summit will provide timely and much-needed attention to the challenges and opportunities for coastal and estuarine restoration and management. It will bring together a unique blend of people who are involved in policy, science, strategy, business, and on-the-ground restoration and management.

The Summit Program will address all aspects of coastal and estuarine restoration and management, in all ecosystems, at all scales, and all regions, including the Great Lakes and international locales. These topics are crucial as coastal communities pursue new, more robust strategies to effectively manage, protect, and restore their resources in a changing climate. Ensuring these resources, and the communities that rely on them, are resilient now and into the future will be a particular focus.

SUMMIT AUDIENCE

The Summit is an international gathering encompassing all disciplines within the coastal and estuarine restoration and management communities. RAE and TCS will work with 200 partnering and supporting organizations to develop and host the Summit and we anticipate more than 1,200 attendees from the restoration and management communities: non-profit and community organizations, Indian Country, academic and research institutions, businesses with an interest in the coast, and agencies from all levels of government. Restoration and management practitioners, citizens and community leaders, consultants, scientists, educators, planners, engineers, students, volunteers, philanthropists, program managers, field staff, contractors, regulators, and others involved in restoration and management efforts are expected and encouraged to participate.

CALL FOR PROPOSALS All proposals are due May 2, 2016. To submit a proposal, use the online submittal form available at <https://www.was.org/rae-tcs-2016summit> . Proposals may include sessions, single presentations, or posters

Grist and Grains

The IGU Commission on Coastal Systems (CCS) has a web site that can be found at: <http://www.igu-ccs.org/> Contact information for CCS Officers and Steering Committee members can be found on the web site along with past and present newsletters. If you are interested in becoming a member of the CCS, an on-line membership form is available.

Ellis, J.T., and Sherman, D.J. (Editors). 2015. **Coastal and Marine Hazards, Risks, and Disasters**. Amsterdam, Elsevier, 573 pp, is a relatively new release. Sea and Ocean Hazards, Risks and Disasters provides a scientific approach to those hazards and disasters related to the Earth's coasts and oceans. This is the first book to integrate scientific, social, and economic issues related to disasters such as hazard identification, risk analysis, and planning, relevant hazard process mechanics, discussions of preparedness, response, and recovery, and the economics of loss and remediation. Throughout the book cases studies are presented of historically relevant hazards and disasters as well as the many recent catastrophes.

The following items are taken from the EPA Climate Ready Estuaries Update prepared by Michael Craghan. The full version is available at: <http://www.epa.gov/cre/>

Coastal Climate Change Resources

- From Nancy Laurson---

Press release from USGS: New Sea-Level Rise Handbook Highlights Science and Models for Non-Scientists: <http://www.usgs.gov/newsroom/article.asp?ID=4309#.ViU8qE3snGh>,

"Sea-level rise modeling handbook: Resource guide for coastal land managers, engineers, and scientists" Professional Paper 1815 is downloadable here: <http://pubs.er.usgs.gov/publication/pp1815>

- From Restore America's Estuaries---

"We are pleased to announce that the Proceedings of the 7th National Summit on Coastal and Estuarine Restoration and 24th Biennial Meeting of the Coastal Society are now available on the RAE website. You can now review materials from the robust and cutting-edge program that you may have missed. Included are slides from oral presentations, posters, and the plenary session videos."

<https://www.estuaries.org/proceedings>

- CRAVe Climate Registry for the Assessment of Vulnerability

<https://nccwsc.usgs.gov/crave/>

CRAVe houses information on assessments of the vulnerability of various natural and human resources. Users can enter information about their vulnerability assessments and search for assessments for specific geographic regions, assessment targets or endpoints, managing entity, and other factors.

The following information is taken from the informative Newsletter compiled by Alexi Westcott, the ACZISC Secretariat. The full version is available at: www.COINAtlantic.ca

NORTHERN ALASKA COASTAL EROSION THREATENS HABITAT AND INFRASTRUCTURE

A United States Geological Survey Open-File Report “**National Assessment of Shoreline Change: Historical Shoreline Change Along the North Coast of Alaska, U.S.-Canadian Border to Icy Cape**” finds that the remote northern Alaska coast has some of the highest shoreline-erosion rates in the United States. Analyzing more than half a century of shoreline-change data along more than 1,600 kilometers of coast, from the U.S.-Canada border to Icy Cape, scientists found the pattern highly variable, with most of the coast retreating at an average rate of **1.4 meter/year. Extreme erosion in small areas exceeds 18.6 meter/year** - <http://pubs.usgs.gov/of/2015/1048>.

ECONOMIC BENEFITS FROM AQUATIC ECOLOGICAL RESTORATION PROJECTS

The Massachusetts Department of Fish and Game's Division of Ecological Restoration has released the report “**Economic and Community Benefits from Stream Barrier Removal Projects in Massachusetts**” which presents the findings of a study that analyzed the costs of six stream barrier removal projects - <http://www.mass.gov/eea/docs/dfg/der/pdf/phase-iii-benefits-from-stream-barrier-removal-projects.pdf>. This is the third report on a series of studies evaluating the economic impacts of ecological restoration. For more details, see the summary report: “**Economic Benefits from Aquatic Ecological Restoration Projects in Massachusetts, Summary of Three Phases of Investigation**”.

LIVING SHORELINES

Restore America's Estuaries has released the report “**Living Shorelines: From Barriers to Opportunities**” providing a national (USA) assessment of institutional barriers that are preventing broader use of living shorelines for shoreline protection and provides clear recommendations and strategies to move forward. The report identifies **three major obstacles** to broader use of living shorelines: 1) institutional inertia; 2) lack of a broader planning context; and 3) lack of an advocate. To address these obstacles, the report identifies four broad strategies, including: **1) education and outreach; 2) regulatory reform; 3) improve institutional capacity; and 4) public agencies as role models**. Each strategy identifies a number of specific and actionable recommendations for decision and policy makers - <https://www.estuaries.org/first-national-report-on-living-shorelines-institutional-barriers-released>.

SEA GRANT RESILIENCE TOOLKIT

Sea Grant has launched the **National Sea Grant Resilience Toolkit**, a **compilation of more than 100 tools and resources** that have been developed to help local communities become more resilient to a range of natural hazards, water quality challenges, severe weather, and the effects of climate change. Categories of tools include: Homeowners Handbooks; Coastal Community Resilience Index; Vulnerability, Consequences, and Adaptation Planning Scenarios; and ‘The weTable’ - <http://seagrant.noaa.gov/WhatWeDo/ResilienceToolkit.aspx>.

CLIMATE CHANGE INDICATORS IN THE UNITED STATES

A The US Environmental Protection Agency has released the 2014 Edition of the report “**Climate Change Indicators in the United States**”. The report presents **thirty indicators** to help understand observed long-term trends related to the causes and effects of climate change, and **describes the significance of these trends** and their possible consequences for people, the environment, and society. Most indicators focus on the United States, but some **include global trends** - <http://www.epa.gov/climatechange/indicators.html>.

ENCROACHING TIDES

The Union of Concerned Scientists (UCS) has released “**Encroaching Tides: How Sea Level Rise and Tidal Flooding Threaten U.S. East and Gulf Coast Communities over the Next 30 Years.**” Using a mid-range scenario for future sea level rise, the report finds that by 2030, more than half of the **52 communities analyzed on the East and Gulf Coasts can expect to average more than two dozen tidal floods per year**. The rise in the frequency of tidal flooding represents an extremely steep increase for many of these communities - http://www.ucsusa.org/global_warming/impacts/effects-of-tidal-flooding-and-sea-level-rise-east-coast-gulf-of-mexico#.VJlwNsA4.

- “**Coastal Zones: Solutions For The 21st Century**” is a news book edited by Juan Baztan, Omer Chouinard, Bethany Jorgensen, Paul Tett, Jean-Paul Vanderlinden and Liette Vasseur. The book highlights the looming **challenges facing coastal zones** around the world and the potential solutions from a transdisciplinary and global perspective. It provides ideas on **how to face the challenges, develop solutions, and localize management of common-pool resources** - <http://store.elsevier.com/Coastal-Zones/Juan-Baztan/isbn-9780128027486>.

- “**MPA News**” features international news and analysis on Marine Protected Areas. The May-June 2015 (Vol. 16, No. 5) issue includes the articles: “A brief examination of ‘**other effective area-based conservation measures**’ and what they mean for MPAs”, “New group aims to **engage young professionals** in MPA field, involve them in high-level decisions” and “World Heritage Committee welcomes progress but **keeps Great Barrier Reef on watch list**” - <http://depts.washington.edu/mpanews/issues.html>.

- The **International Institute for Sustainable Development** has published a summary of the **Outcomes of the Climate Summit of the Americas 2015**. The Government of Ontario, Canada, convened the Climate Summit of the Americas from 7-9 July 2015 in Toronto, Ontario. The Summit culminated in more than 20 provinces, territories, states, cities and regions **signing the first-ever Pan-American action statement on climate change** with commitments related to carbon pricing, emission reduction reporting, ambitious targets and action in key sectors - <http://www.iisd.org/media/outcomes-climate-summit-americas-2015>.

- Directions Magazine “**Communicating with Maps**” series, including parts 1 and 2 are available. Part one explores the **complexities and challenges** of GIS mapping. Part two discusses **issues and advances** in mapmaking.

- <http://www.directionsmag.com/entry/communicating-through-maps/442173>.

- <http://www.directionsmag.com/entry/communicating-with-maps-part-2-discussing-the-issues-with-cagis-presid/446061>.

- **“Risk Assessment of Storms in Coastal Zones: Case Studies from Cartagena (Colombia) and Cadiz (Spain)” 2015, by Rangel, Nelson, Anfuso, Giorgio.**

The book assists the reader in determining storm risks, focusing on sandy and cliff coasts in the context of expected sea level rise from littoral transformation and climate change. It examines storm impacts through matrixes concerning physical parameters, socio-economic activities, ecological and historic resources, and it presents the Coastline Risk to Storms Index as a single numerical measure of the risk for a given area. Springer, 2015: <http://www.springer.com/fr/book/9783319158433>.

- **“Coastal Cliffs: Morphology and Management”, 2016, by Bird, Eric.**

This book offers an insight into the global occurrence, geomorphology, evolution, weathering and erosion of coastal cliffs and bluffs. Stabilization and preservation of cliffs are treated in detail. Mitigation of cliff hazards and preservation of scenic features and sites of scientific importance requires effective coastal cliff management that can only be based on thorough knowledge of the physical processes at work. Springer, 2016: <http://www.springer.com/gp/book/9783319290836>.

- **“Environmental Planning for Oceans and Coasts. Methods, Tools, and Technologies”, 2016, by Portman, Michelle Eva.**

This book informs environmental planning professionals, students and those interested in oceans and coasts from an environmental perspective about what is needed for planning and management of these unique environments. It is comprised of twelve chapters organized in three units. Unit I highlights the basic tenets of environmental planning for oceans and coasts including important concepts from the general field of planning and coastal and ocean management (e.g., hydrography, oceans policy and law, geomorphology). Environmental problems (such as sea-level rise, marine pollution, overdevelopment, etc.) inherent within oceans and coasts are also addressed, especially those at the land–sea interface. Unit II covers those methodological approaches regularly used by planners working to improve environmental quality and conditions of oceans and coasts among them: integrated planning and management, ecosystem services, pollution prevention, and marine spatial planning. Unit III focuses specifically on state-of-the-art tools and technologies employed by planners for marine and coastal protection. These include systematic conservation planning for protected areas, decision support tools, coastal adaptation techniques and various types of communication, including visualization, narration and tools for stakeholder participation. The final chapter in the book reviews the most important concepts covered throughout the book and emphasizes the important role that environmental planners have to play in the protection and well-being of oceans and coasts. Springer, 2016: <http://www.springer.com/gp/book/9783319269696>

The official Newsletter of the Coastal Education and Research Foundation, *Just Cerfing*, is available for viewing at: <http://masters.am/Just%20Cerfing-May-2015.pdf> The Newsletter has information about the current issue of the Journal of Coastal Research as well as information on the Special Issues of the journal.

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<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.

Mike Meadows, Professor at the Department of Environmental & Geographical Science, University of Cape Town, South Africa, Vice-President of the International Geographical Union, is our liaison with the executive committee of the IGU: mmeadows@mweb.co.za

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