

newsletter

Union Géographique Internationale
International Geographical Union
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Norbert P. Psuty, 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

We are halfway into the year 2010, and as you can see from this 64th newsletter drafted by Norb Psuty, there are several exciting meetings in the coming months that underpin the importance and diversity of coastal issues and the ever-growing concern for the sustainable management of our coasts. Our thoughts at this time are with those coastal communities and ecosystems faced with disaster, especially in the Gulf of Mexico. We hope adequate solutions will be found rapidly to constrain the damage and repair the fragile ecosystems affected, and that the scale and magnitude of the Gulf of Mexico event will serve, more than ever, to highlight the pressing need for long-term action in favour of ecosystem-based management of our coasts.

Due to professional constraints, I could not attend the IGU conference in Israel this month, but there will be new occasions, among the numerous meetings coming up, to set up sessions in the name of the Commission on Coastal Systems. It is my firm hope that you, as members of the Commission, will continue to contribute to the promotion of knowledge and exchange of ideas through these meetings by setting up sessions in the name of the CCS!

Edward ANTHONY

MEETINGS WITH COASTAL INTERESTS

AUGUST 31 – SEPTEMBER 16, 2010, DALYAN, TURKEY

Eight International Training Workshop on Integrated Coastal Management in the Mediterranean and the Black Sea (MEDCOAST Institute 2010)

For information about this workshop on coastal management, contact:
MEDCOAST Secretariat
c/o Middle East Technical University
06531 Ankara - Turkey
Telephone: 90 - 312 - 210 54 29
Facsimile: 90 - 312 - 210 79 87
E-mail: medcoast@metu.edu.tr
<http://www.medcoast.org.tr>

SEPTEMBER 13-17, 2010, HAMBURG, GERMANY
STORM SURGES CONGRESS 2010

Sponsored by Land-Ocean Interactions in the Coastal Zone (LOICZ) and the GKSS Research Center in Geesthacht

Storm surges represent a major type of natural hazard, frequently causing substantial losses of lives and economic damages. Besides climate change drivers, storm surges are exacerbated by anthropogenic forcing including intensive land and sea use along the river-coast continuum.

How do we deal with the present level of risk?

How do we respond to changing future conditions?

Answers require interdisciplinary approaches and to overcome the traditional fragmentation in scientific and coastal user discussions and management systems. We strongly encourage multiple stakeholders, coastal users and decision-makers, scientists, and particularly young colleagues from diverse fields of expertise, to participate with knowledge and share their experience.

Plenary sessions and moderated poster sessions underpinned by roundtable discussions should encourage cross-disciplinary exchange. The goal is also to provide useful outcome information subsequent to the congress in various forms of dissemination.

Abstracts are to be submitted online, they are due by **February 28, 2010**.

Further information is available at: <http://www.loicz.org/calender/Congress/index.html>

SEPTEMBER 21-23, 2010, LONDON, UK
LITTORAL 2010

Eurocoast, EUCC, and CoastNet announce Littoral 2010, An international conference on coastal issues. Authors are encouraged to submit papers describing previously unpublished, **original research** results, not currently under review by another conference or journal, or case studies of **good practice**.

For Littoral 2010 CoastNet are introducing a **new category of paper** to be included in the proceedings, either as a paper or poster. This is the category of **GOOD PRACTICE**. The purpose of this category is to acknowledge the valuable contribution to coastal management of policy-makers and managers who deal mainly with implementation rather than with academic research. A main aim throughout the Littoral series has been to bring science and practice together, and we hope that this new approach will further enhance this feature of Littoral 2010.

Further information is available at: <http://www.coastnet.org.uk/Littoral2010> or by communicating with: admin@coastnet.org.uk

**OCTOBER 7, 2010, PAVILLON DU ZOUTE, KNOKKE-HEIST, BELGIUM
INTERNATIONAL WORKSHOP ON THE MANAGEMENT OF DUNE POLDER AND
DUNE MARSHLAND TRANSITION ZONES**

The objective of the workshop is to exchange management experiences and innovative management techniques by bringing together administrators and researchers of dune polder and dune marshland transition zones in Europe.

For further information and registration, please refer to www.lifenatuurzeno.be.

**OCTOBER 20-22, 2010, BUCHAREST, ROMANIA
2010 GEOECOMAR INTERNATIONAL SYMPOSIUM “RIVERS – DELTAS - SEAS”**

/The National Institute of Marine Geology and Geoecology is organizing this symposium. Information is available online at: <http://www.geoecomar.ro/website/simposion2010.html>.

Or contact Dr. Adrian Stanica, coordinator at: astanica@geoecomar.ro

**OCTOBER 25 – NOVEMBER 1, 2010, ASWAN AND MARSALA ALAM, EGYPT
LIVING WITH LANDSCAPES 3RD SYMPOSIUM AND FIELD WORKSHOP**

The organizing team of the- Living with Landscapes- international symposiums, would like to invite you to its third annual gathering for even more of the same excellent academic interaction, networking and exchange of experience and achievement regarding Man's ingenious ways of adaptation with different landscapes and geomorphic environments.

We have over-passed ourselves this time, by choosing even more distinctive settings for you to explore and enjoy. First, is of course the legendary Nile River with its spectacular sceneries and history-long cultural significance stretching between two of the most ancient and "monumental" cities in the world; the mystical Luxor and Aswan. This is, of course, in addition to the beautiful Marsa Alam resort at the Red Sea, with its warm climate, wondrous sceneries and breathtaking underwater coral gardens and marine life. As usual, oral and poster presentations will be orchestrated amongst field workshops in marine and desert excursions in order to weave maximum academic benefit with enjoyment and refreshment. This time, we intend to offer you unique opportunities for academic exposure and experience.

Objectives: Definitions of Man's methods of integration within various landscapes should help our understanding of the interactive nature of the relationship between geomorphology and human activities. Of particular interest here are investigations of fluvial and coastal regions, with their geomorphic processes and strong relationships to global environmental change. While continually offering mankind a variety of unique goods and services, coral reefs and mangrove, as micro-geo-systems, are very sensitive to global change.

Topics:

1. Methods of adaptation in conditions of climatic change, and coastal and fluvial landforms' evolution.
2. Geodiversity of coastal and fluvial landscapes.

3. Geoarchaeology of coastal and fluvial landscapes.
4. Man and coastal geomorphology.
5. Man and adaptation with floods.
6. Floods and how they affect the human communities.
7. Adaptation with side effects of river dams.
8. Living with torrential rainfall.
9. Paleokarst in different regions.
10. Karst of sea coasts and coral reefs.

For further information, contact:

Magdy Torab

Prof. of Geomorphology, Vice Dean
for Graduate Studies & Research,
Faculty of Arts, Damanhour Branch,
Alexandria University, Egypt.

President of The Egyptian Society
of Environmental Changes.

Mobile phone: +20102603250

WebSite: www.magdytorab.com

OCTOBER 27-30, 2010, GROSSETO, ITALY
**3RD INTERNATIONAL CONFERENCE ON THE MANAGEMENT OF COASTAL
RECREATIONAL RESOURCES**

The conference is organized by the Euro-Mediterranean Centre on Insular Coastal Dynamics (ICoD) within the International Environment Institute at the University of Malta. This international event is characterized by its focus on selected coastal management issues relating to beaches, yacht marinas, ecotourism & conservation, and the impact of coastal hazards on such resources.

The Conference aims to bring together researchers as well as practitioners and policy makers to highlight and discuss issues of concern while also showcasing appropriate solutions through the exchange of experiences, best-practice scenarios and innovative management concepts. In this manner, the Conference will provide an opportunity to consider issues of concern to both tourism and the environment sector, and to address sustainable management practice in these fields by exploring the dependency of tourism on a well-managed environment and conversely, the negative impact of insensitive tourism on environmental quality. Further information is available at: <http://balticlagoons.net/?p=495>

Contact: Mr Robert Caruana

E-Mail: merr3-2010@um.edu.mt

Telephone: +356 2340 2879

Fax: +356 2340 2880

NOVEMBER 13-17, 2010, GALVESTON, TEXAS, US
**5TH NATIONAL CONFERENCE ON COASTAL AND ESTUARINE HABITAT
RESTORATION**

Preparing for Climate Change: Science, Practice, and Policy

This is the only national conference that focuses exclusively on coastal habitat restoration, and we invite you to be a part of it. Healthy coasts and estuaries are essential to the social, economic, ecological

wellbeing of everything that depends on them. Successful habitat restoration at all scales is critical to ensuring vibrant coasts. The Conference will bring timely national attention to the challenges and opportunities for restoration and will bring together a unique blend of people involved in policy, science, strategy, business, and on-the-ground restoration work.

The Conference will be held November 13-17, 2010, at the Galveston Island Convention Center, Galveston, Texas. The overarching theme for the Conference is "Preparing for Climate Change: Science, Practice, and Policy." Every aspect of restoration will be affected by climate change. Because of its power to effect change, restoration can be a key element on an adaptive or mitigating strategy in facing climate change that cuts across all disciplines. As such, the topic of climate change will be interwoven throughout the Conference and will serve as a unifying element.

The Conference Program will address all aspects of coastal and estuarine habitat restoration, in all habitats, at all scales, and all regions. Habitat restoration--the manipulation of the physical, chemical, or biological characteristics of a site with the goal of returning self-sustaining natural or historic structure and functions to former or degraded habitat--offers great promise for reversing the trend of habitat loss and degradation, and is a crucial component of comprehensive ecosystem restoration, protection, and management.

Deadline for Sessions, Presentations, and Posters: March 2, 2010.

For more information and to submit a proposal, visit: <http://program.estuaries.org>

Contact: Suzanne Giles Simon, ssimon@estuaries.org, (772) 766-1129

FEBRUARY 18-22, 2011, ADDISS ABABA, ETHIOPIA
IAG/AIG Regional Conference on Geomorphology Geomorphology for Human Adaptation to Changing Tropical Environments

The Conference promotes exchange of studies and methods for the investigation of tropical geomorphology in connection with different effects of global environmental changes. The conference programme includes lectures, workshops, two pre-conference and one post-conference field trips and social activities.

Topics:

- Geomorphology of Tropical Mountains
- Land Degradation and Resilience
- Drylands Geomorphology and Desertification
- Wetlands Geomorphology
- Landslide Hazard Assessment and Zoning
- Fluvial Geomorphology and Flooding Hazard
- Volcanic Geomorphology and Hazard
- Tectonic Geomorphology, Active Tectonics and Seismic Hazard
- Karst Geomorphology
- Geomorphological Mapping
- Mining Areas Rehabilitation
- Quaternary Stratigraphy and Paleoclimate
- Urban Geomorphology
- Coastal Geomorphology
- Geoheritages, Geoparks and Geotourism

The First Circular and Registration/payment form can be downloaded from the IAG/AIG Website www.geomorph.org

Prof. Dr. Jan Nyssen
Department of Geography
Ghent University
Krijgslaan 281 (S8)
B 9000 Gent
BELGIUM

Tel. +32 (0)9 264 46 23
Fax +32 (0)9 264 49 85
<http://geoweb.ugent.be>
<http://www.researcherID.com/rid/B-8280-2009>

**MAY 2-6, 2011, MIAMI, FLORIDA
COASTAL SEDIMENTS, '11**

The Coastal Sediments'11 conference is the seventh in the series following the inaugural conference in 1977. The Coastal Sediments technical specialty conferences provide an international forum for exchange of information among coastal engineers, geologists, marine scientists, shallow-water oceanographers, and others interested in the physical processes of coastal sediment transport and morphology change.

For further information, contact:
Department of Geology, SCA 528
University of South Florida
4202 E. Fowler Avenue Tampa, Florida 33620

Ping Wang, Ph.D. Voice: 813.974.9170 Fax: 813.974.2654 E-mail: pwang@cas.usf.edu
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Mark H. Horwitz Phone: 813.974.2759 E-mail: mhorwitz@mail.usf.edu
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**MAY 9-14, 2011, SZCZECIN, POLAND
11TH INTERNATIONAL COASTAL SYMPOSIUM, ICS 2011**

The 11th International Coastal Symposium ICS will be held in 9-14 May 2011 in Szczecin, Poland. The symposium will be organized by the Institute of Marine and Coastal Sciences at University of Szczecin. Poland is located on the southern coast of the Baltic Sea and as such is endowed with more than 500 kilometers of the coastline. Szczecin is located in the north-west sector of Poland, south of the Szczecin Lagoon which is part of the Oder River estuary, draining into the Pomeranian Bay of the Baltic Sea. Szczecin, with nearly 500,000 inhabitants, is the capital of Western Pomerania province and is situated in the vicinity of three European countries: Germany, Denmark and Sweden. The historical and cultural milieu of the city originates from over thousand years ago and has been shared by several nationalities. Large parts of the city architecture go back to the last half of the 19th century, bearing

striking resemblances to Paris, which was re-constructed by the same architect. Furthermore, the diverse city landscape is marked with the large harbor, many sail piers, parks and a beautiful secession downtown. The parks and squares in Szczecin are planted with many varieties of magnolia that bloom in spring as well as rare tree and bush species

The University of Szczecin, founded in 1985, and with over 30,000 students is the biggest university in the city and in Western Pomerania. One of the university's departments is the Faculty of Geosciences, which includes the Institute of Marine and Coastal Sciences. Specializing in marine and coastal research, the institute was founded in 1991. It will celebrate its 20th activation anniversary in 2011. Therefore, the 11th ICS will be an excellent opportunity to present the Institute's achievements.

CONFERENCE THEMES

ICS 2011

- _Acoustic Remote Sensing Barrier
- _Islands Beach Processes
- _Beaches in Fetch-Limited Environments
- _Climate Change
- _Coastal Dunes
- _Coastal Ecosystems
- _Coastal Engineering
- _Coastal Evolution
- _Coastal Geomorphology
- _Coastal Hazards and Pollution
- _Coastal Modelling
- _Coastal Polices and Planning

- _Coastal Restoration & Mitigation
- _Coastal Tourism
- _Coastal Zone Management
- _Delta Plain Management
- _Estuaries and Lagoons
- _Estuarine & Wetland Restoration
- _GIS and Remote Sensing Applications
- _Human Impact (interaction)
- _Impact of Extreme Storms
- _Integrated Catchment and Coastal Zone Management
- _Marine & Coastal Protected Areas
- _Nontidal Coasts (Baltic's and others)
- _Paleoclimate of the Coast
- _Sedimentary processes and morphodynamics of sandy beaches on short time response

CALL FOR ABSTRACTS AND PAPERS

Abstracts for the 11th International Coastal Symposium will be accepted by online submission beginning May 01, 2010. More information, including detailed submission guidelines and subject classifications, can be found on the Conference website at www.ics2011.pl

Conference Secretariat

ICS2011 -11th International Coastal Symposium

Zakład Teledetekcji i Kartografii Morskiej, Uniwersytet Szczeciński

A. Mickiewicza 18/402 Street, 70-383 Szczecin, POLAND
Phone: +48 914 442 351 Fax: +48 914 442 451
E-mail: ics@ics2011.pl

IMPORTANT DATES

- Open of the Call • Open of the Call for Abstracts / 1st of May 2010
 - Notification of Acceptance / 15th of August 2010
 - Early Registration / 01.05.2010 - 30.11 2010
 - **Close of the Call for Abstracts / 1st of September 2010**
 - Submission of Full Articles / 15th of December 2010
 - Late Registration / 01.12.2010 - 01.04.2for Abstracts / 1st of May 2010
- NB: The call for abstracts has been extended to 1st of September 2010**
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JULY 3-7, 2011, 2ND INTERNATIONAL SYMPOSIUM ON INTEGRATED COASTAL ZONE MANAGEMENT, ARENDAL, NORWAY

This multi-disciplinary international conference is intended to promote science and integration of knowledge for the sustainable management of coastal resources. It will provide a venue for scientists, engineers, managers and policy-makers to discuss recent advances and innovative ideas, to share experiences and to develop networks. Further information at: <http://www.imr.no/iczm2011>

JULY 17-21, 2011, COASTAL ZONE '11, CHICAGO, ILLINOIS, US

Many factors are changing our coastal communities and our estuarine, marine, and Great Lakes environments. Recurring problems such as the impacts of coastal development, and new threats such as those related to global climate change and other human-induced hazards require new approaches to ocean and coastal resource management. Join us at Coastal Zone 2011, in Chicago, Illinois to explore these challenges and learn from the experiences of leaders from across the nation and around the world.

Four major themes (hot link) are designed to spark dialogue and exchange across a wide range of perspectives. Scientists, managers and policy makers will want to engage in discussions addressing how climate change, coastal spatial planning, population and policies will affect the land and waterscapes of our oceans, coasts, and Great Lakes.

We welcome concurrent Professional Meetings (hot link), Special Sessions (hot link) (including poster sessions (hot link), and Exhibitors/Sponsors (hot link).

Abstracts due October 8, 2010.

Further information at: <http://www.doi.gov/initiatives/CZ11/index.htm>.

OCTOBER 31 – NOVEMBER 4, 2011, BALNEARIO CAMBORIU, SANTA CATARINA, BRAZIL XIV Congresso Latinoamericano de Ciencias do Mar

Plans are underway for this marine sciences meeting in Brazil. Information will be posted on its website as it develops: www.colacmar2011.com

REPORT ON MEETING

The First International Conference on Coastal Zones Management of River Deltas and Low Land Coastlines, March 2010, Alexandria, Egypt

The conference was organized by members of Egypt's Coastal Research Institute of the National Water Research Center under the Umbrella of the Ministry of Water Resources and Irrigation, along with the Arab Academy for Science and Technology and Maritime Transport as well as many international experts, including Orville Magoon and S. Jeffress Williams (USGS/Woods Hole Science Center) from the USA. The conference was co-sponsored by the American Society of Civil Engineers (ASCE), United States Geological Survey (USGS), American Shore & Beach Preservation Association (ASBPA), and National Oceanic & Atmosphere Administration (NOAA).

The main objective of this conference was to bring engineers, scientists, and government agencies and officials worldwide to exchange views and share recent development in the field of coastal zone management. It was also intended to reach propositions for sustainable solutions to alleviate adverse impacts and adapt to climate change for Egypt within the framework of the integrated coastal zone management and anthropogenic effects.

During the 4-day conference, three key note lectures were delivered from international experts, Ronald Waterman, Ismail Mobarak, and S. Jeffress Williams. Williams' talk, entitled, "**THE MISSISSIPPI RIVER and NILE RIVER DELTA PLAINS: EFFECTS of SEA LEVEL RISE, STORMS, and SUBSIDENCE UNDER CHANGING GLOBAL CLIMATE**" focused on the Mississippi delta and results of his and other USGS research. A total of 47 technical papers were presented in twelve sessions covering 12 themes in the field of the management of river deltas and low land coastal zones. About 275 persons working in the field of coastal science and engineering and management coming from 15 countries representing four continents attended the conference. All of the keynote lectures and technical papers will be available in a Conference Proceedings on the web site, <http://www.nwrc-egypt.info/>.

As demonstrated during the discussions in the conference sessions, a broad exchange of ideas resulted and a number of conclusions and recommendations for sustainable Coastal Zone Management were reached.

Scientific and technical conclusions and recommendations include:

- 1- Climate changes induced global sea level rise is a fact due to global climate change and land subsidence; however its threatening degree can vary spatially and temporally.
- 2- The Nile Delta coast is naturally protected in many places along the Mediterranean; nevertheless coastal conditions can change over time and therefore, require a comprehensive monitoring program and maintenance.
- 3- Fragmented local coastal protection is neither technically efficient nor environmentally sustainable; therefore, regional solutions in the framework of Integrated Coastal Zone Management have to be adopted.
- 4- Ensure that proposed coastal protection concepts are sustainable for objective interventions through hydrodynamic simulation or physical modeling. This is necessary to avoid any design deficiencies or nonfunctioning as accomplished for the Nile Delta Master Plan in the seventies of the last century.
- 5- Building with nature is a concept that is worth considering because it works for both nature and human beings, hence soft engineering methods are highly encouraged.

Management recommendations include:

- 1- Enhance cooperation and team work among concerned agencies and stake holders, at national and international levels.
- 2- Developing and implementing programs of awareness for Governmental officials, scientists, and the public to spread knowledge about coastal and climate risk implications because it is necessary for successful integrated coastal zone management, planning implementation and water resources management and conservations.
- 3- Developing a comprehensive scientific and technical data base including coastal and climate data in cooperation of all concerned parties to allow flexible information sharing and accessibility to these data towards achieving sustainable development.
- 4- Ensuring effective capacity building and human resources development from the local to the national and international levels.

Legislative recommendations include:

- 1- Adapting required adjustments in legislations concerned with coastal zone management processes.
- 2- Enforce the existing laws and coordinate among different local authorities towards successful implementation of national integrated coastal zone management.

The conference organizers by the end of 4 days concluded that the themes and contents of the first international conference on “Coastal Zone Management of River Deltas and Low Land Coastlines” are of paramount political, social, and environmental importance; therefore, they recommended to hold such a conference on three year basis. Plans are being made to convene the next conference in year 2013 at a venue to be determined. For the 2013, conference the organizers will solicit even wider contributions and stronger support from different levels of government and institutions, both national and international.

Submitted by **S. J. Williams**, USGS, Woods Hole, MA.

Grist and Grains

The IGU Commission on Coastal Systems (CCS) has a web site which 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.

John Houston and Paul Rooney, Liverpool Hope University, announce the availability of the Ninth Newsletter through the UK Sand Dune and Shingle Network. This informative publication conveys news on projects, publications, meetings, and issues of management concern throughout the UK. Much of the presented data have application far beyond the UK. The Newsletter is available on request through the Sand Dune and Shingle Network website at: <http://www.hope.ac.uk/coast/>
Or contact John Houston, houstoj@hope.ac.uk or Paul Rooney: dunes@hope.ac.uk

The following information is taken from the very informative Newsletter compiled by Claudette LeBlanc, the ACZISC Secretariat. The full version is available at:
<http://aczisc.dal.ca>

NEW ADDITION TO THE ACZISC WEBSITE

The presentations made at the recent ACZISC Meeting in Fredericton, New Brunswick are available at <http://aczisc.dal.ca/docs-ACZISC.htm>. The topics are: Power Sharing in the Coastal Zone - Shifting Roles of Government in Community-based Coastal Management; Finding, Getting, and Using Indicator Data for the Gulf of Maine; Overview of the State of Nova Scotia's Coast Report; GeoNB - New Brunswick's Spatial Data Infrastructure Initiative; and a COINAtlantic Update.

ADAPTING TO CLIMATE CHANGE IN ATLANTIC CANADA

The Conference Board of Canada Executive Action Report entitled "Adapting to Climate Change in Atlantic Canada: What Organizations Are Doing Today to Prepare for Tomorrow" is a summary of the Leaders Roundtable on Climate Change Adaptation (LRCCA) held in March 2009 in Halifax, Nova Scotia. Registration (free) is required to access the report available at <http://www.conferenceboard.ca/documents.aspx?did=3437>.

MYTHS ASSOCIATED WITH ICZM

The author of the perspective entitled "Integrated Coastal Zone Management: four entrenched illusions", published in SAPIENS, outlines four illusions associated with ICZM: round table discussions can solve any problem; the myth of the coastal manager; the community illusion; and the positivist illusion. It is argued that these illusions result from unproved conceptual over-simplifications and lead to a naive conception of action that often impedes ICZM implementation - <http://sapiens.revues.org/index198.html>.

ANALYSIS OF MARINE SPATIAL PLANNING STAKEHOLDERS FOR NOAA

An analysis of marine spatial planning (MSP) stakeholders, carried out for NOAA's Coastal Services Center, provides information on the audiences involved in coastal and marine spatial planning. The report, organized by coastal region, discusses several common themes, including: governance; the scale of MSP; MSP drivers; data resources; stakeholder engagement and support; and the future of MSP. Recommendations are provided - <http://www.csc.noaa.gov/publications/MSPStakeholderAnalysis.html>.

NORTH AMERICAN ENVIRONMENTAL ATLAS

The interactive Atlas - a trilateral partnership coordinated by the Commission for Environmental Cooperation (CEC) - provides access to geospatial data and map layers related to significant continental environmental issues. It allows users to: view environmental data at a continental scale; combine multiple map layers; display map layers using an integrated Google Earth viewer; and download maps and related data in a variety of formats - <http://www.cec.org/naatlas>

GLOBAL INDICATORS OF BIOLOGICAL INVASION

The authors of the report entitled "Global indicators of biological invasion: species numbers, biodiversity impact and policy responses" studied 57 countries and found that, on average, there are 50 non-indigenous species per country which have a negative impact on biodiversity. A total of 542 species were documented as invasive aliens, including 316 plants, 101 marine organisms, 44 freshwater fish, 43 mammal, 23 bird and 15 amphibian species - <http://www.iucn.org/knowledge/news/?4561/Impact-of-natures-invading-aliens-measured-for-first-time>.

SEA LEVEL RISE: RETREAT, DEFEND, ATTACK?

The think-piece entitled "Facing up to Rising Sea Levels: Retreat, Defend, Attack?", by the Royal Institute of British Architects and the Institution of Civil Engineers, presents scenarios for coastal and estuarine cities and proposes three main approaches to dealing with extreme flooding and rising sea levels - retreating inland, creating habitable defence structures and building out into the sea - <http://www.buildingfutures.org.uk/projects/building-futures/facing-up>.

MARINE ECOREGIONS OF NORTH AMERICA

The book, produced by the Commission for Environmental Cooperation, is a joint Canadian, American and Mexican effort. It classifies North America's oceans and coastal waters into 24 ecological regions according to oceanographic features and geographically distinct groups of species. The book includes maps, photos and detailed information on habitats, ecosystems and human activities -

http://www.cec.org/pubs_docs/documents/index.cfm?varlan=english&ID=2557.

BEST PRACTICES FOR SHARING SENSITIVE ENVIRONMENTAL GEOSPATIAL DATA

The GeoConnections guide highlights issues and concepts associated with protecting, sharing and utilizing sensitive geospatial data related to the environment and sustainable development; provides frameworks for assessing data sensitivity; and describes potential mechanisms for facilitating the sharing of data, including online transactions -

http://www.geoconnections.org/publications/Key_documents/Sensitive_Env_Geo_Data_Guide_EN_v1.pdf.

SUSTAINABLE COASTAL TOURISM

The purpose of this UNEP handbook is to explain how the tourism sector can coordinate effectively in the overall development of coastal zones and contribute to the long-term sustainability of these areas. It provides an introduction to the key tools to be used in different stages of the planning process and identifies the stakeholders that are critical in the successful delivery of the various stages of the process -

<http://www.pap-thecoastcentre.org/pdfs/DTIx1091xPA-SustainableCoastalTourism-Planning.pdf>.

ACHIEVING SUSTAINABLE DEVELOPMENT TOGETHER

The report entitled "Progress Through Process: Achieving Sustainable Development Together", a joint effort of Canada's National Round Table on the Environment and the Economy and the Public Policy Forum, recommends new collaborative approaches be adopted to achieve the goal of sustainable development. The study also argues that new governance methods must include key interest groups to build legitimacy; allow for ongoing dialogue that creates trust; and allow participants to take responsibility for solving difficulties - <http://www.nrtee-trnee.com/eng/news-media/news-media.php>.

HOPE FOR COASTAL HABITATS IN THE USA

The report provides thematic overviews of coastal conditions, including wetlands, shellfish, aquatic vegetation, fish passage, beach dunes and coastal barrier islands. Each section summarizes the current situation and historical trends, and describes promising restoration projects in a variety of different watershed ecosystems. Although it presents coastal habitat restoration in the best possible light, it also documents negative impacts -

<https://www.estuaries.org/images/stories/docs/Hope%20for%20Habitats%202010.pdf>.

COASTAL AND MARINE ECOLOGICAL CLASSIFICATION STANDARD

This volume describes a national standard in the USA for classifying ecological units in the benthic, sub-benthic, geofom, and water column regimes of coastal and marine systems. It presents the conceptual structure of the classification and the unit definitions forming the basis of inventorying, sampling, and mapping activities necessary for management and protection efforts -

http://www.csc.noaa.gov/benthic/cmecs/CMECS_v3_20090824.pdf.

ECOLOGY OF MARINE WIND FARMS

The Science Symposium on the Ecology of Marine Wind Farms was held on 2-4 November 2009 in Newport, Rhode Island. Sessions focussed on: Marine Spatial Planning; Innovations in aquaculture technologies suitable for integration with offshore energy systems; Designing and managing offshore

structures to enhance coastal habitats, fishing and alternative livelihoods; and Regional needs on knowledge transfer, mitigating impacts and future uses of windpower areas - <http://seagrant.gso.uri.edu/baird/2009/abstracts.html>.

SUMMARY: GLOBAL CONFERENCE ON OCEANS, COASTS AND ISLANDS

The Conference, held from 3-7 May 2010 at UNESCO in Paris, France, was organized around three thematic sessions: ensuring survival; preserving life; and improving governance. A summary report of the Conference, published by the International Institute for Sustainable Development in collaboration with the Global Forum on Oceans, Coasts, and Islands, the Intergovernmental Oceanographic Commission, UNESCO, and the Government of France, is available at <http://www.iisd.ca/download/pdf/sd/ybvol68num5e.pdf>.

THE NATURAL FIX?: THE ROLE OF ECOSYSTEMS IN CLIMATE MITIGATION

The UN Environment Programme (UNEP) report states that increasing investments in the conservation, rehabilitation and management of the earth's forests, peatlands, soils and other key ecosystems, including oceans and coasts, could deliver significant cuts in greenhouse gas emissions and avoid even more being released to the atmosphere. The report reviews carbon management in natural and human dominated ecosystems and the impacts of future climate change on ecosystem carbon. It documents opportunities and challenges, and offers conclusions - <http://www.grida.no/news/press/3702.aspx>.

GUIDEBOOK: ADAPTING TO CLIMATE CHANGE

"Adapting to Coastal Climate Change: A Guidebook for Development Planners", released by USAID, provides a detailed treatment of climate concerns in coastal areas. The Guidebook proposes an approach for assessing vulnerability to climate change and climate variability, developing and implementing adaptation options, and integrating options into programs, development plans, and projects at the national and local levels -

http://www.usaid.gov/our_work/crosscutting_programs/water/news_announcements/coastal_climate_change_report.html.

- <http://www.ices.dk/pubs/crr/crr297/CRR%20297.pdf>.

- The California Coastal LiDAR Project (CCLP) report provides a summary of the collaborative efforts to map the topography of California's coastal region -

http://www.opc.ca.gov/webmaster/ftp/pdf/opc_cclp_report_final.pdf.

- The OSPAR assessment report entitled "Impacts of climate change on the North-East Atlantic ecosystem" details both the direct physical and chemical impacts on the marine environment and the subsequent impacts occurring in the ecosystems and their biodiversity -

http://www.ospar.org/documents/dbase/publications/p00463_Impacts%20of%20Climate%20Change.pdf.

- Recent IUCN publications related to climate change include: "The ocean and climate change: tools and guidelines for action"; "Managing seagrasses for resilience to climate change"; and "Climate, biodiversity, and forests: issues and opportunities emerging from the Kyoto protocol" -

<http://www.iucn.org/what/tpas/climate/resources/publications/>.

- The Toolkit for Institutional, Policy and Legislative Improvements in Support of the Integrating Watershed and Coastal Area Management (IWCAM) Approach in Caribbean Small Island Developing States (SIDS) can be used as a reference document when amending legislation in support of multilateral

environmental agreements - <http://www.iwcam.org>.

- NOAA's Office of Oceanic and Atmospheric Research and Google have signed a research and development agreement outlining how they will work together to create state-of-the-art visualizations of scientific data - http://www.noaanews.noaa.gov/stories2010/20100125_google.html.

- The East Asian Seas (EAS) Congress 2009 was held on 23-27 November 2009 in Manila, Philippines. With the theme 'Partnerships at Work: Local Implementation and Good Practices', it highlighted initiatives and good practices covering key aspects of coastal and marine resource management and interregional, interagency and multisectoral partnerships. Workshop reports and other documents are available at <http://pemsea.org/eascongress>.

- A policy brief entitled "Achieving Sustainable Development Targets in a Changing Climate: How Can ICM Help?", prepared for the East Asian Seas Congress is available at http://pemsea.org/eascongress/section-support-files/policy_brief.pdf.

- The "10th International Coastal Symposium" was held on 13-18 April 2009 in Lisbon, Portugal. The Conference focused on Coastal Zone Management issues and tools, including: Climate Change; Ecosystems; Engineering; Geomorphology; Hazards and Pollution; and GIS and Remote Sensing. The presentations are available in the Journal of Coastal Research at http://e-geo.fcsh.unl.pt/ICS2009/jcr_si56.html.

- NOAA's marine spatial planning resources and information website describes basic marine spatial planning concepts. It also provides news and information about marine spatial planning initiatives in the US, and access to the tools and data used by organizations involved in marine spatial planning - <http://www.msp.noaa.gov>.

- The EBM Roadmap website has been established to provide practical support for ecosystem-based management (EBM). It provides access to readings, case studies, methods, tools, and data to address the core elements of EBM: Nature's Services; Scientific Evidence; Geographic Scales; Ecological Linkages; Cumulative Impacts; Tradeoffs Among Human Activities; Adaptive Management; and a Network of People and Information - <http://www.ebmtools.org/roadmap.html>.

- The European Commission launched a review of the Common Fisheries Policy in 2008. "Towards a new EU Common Fisheries Policy (CFP)", a position paper prepared by the EUCC Marine Team, documents a list of twenty-one 'essentials' to improve the new Policy, including a rigorous catch allocation regime, limiting fish catch to maximum sustainable yield, taking all by-catch into account, and tying sustainability to fishing rights - http://www.eucc.net/en/news/Marine_Team_CFP.pdf.

- The FAO study entitled "Climate change implications for fisheries and aquaculture" is a comprehensive survey of existing scientific knowledge on the impacts of climate change on fisheries and aquaculture. It includes contributions from experts from around the world, including from the Worldfish Centre, Globec, NACA, Fisheries and Oceans Canada and the University of East Anglia - <http://www.fao.org/news/story/en/item/38060/icode/>.

- "EUCC Coastal & Marine News" is the international newsletter of the Coastal and Marine Union (EUCC). The December 2009 issue is available at <http://www.eucc.net/en/news/CMN09-06.pdf>.

- The authors of a study entitled "State and local governments plan for development of most land vulnerable to rising sea level along the US Atlantic coast", published in Environmental Research Letters, recommend comprehensive estuary-wide plans that define the fates of shorelines as sea level rises -

<http://www.iop.org/EJ/abstract/1748-9326/4/4/044008/>.

- A team of scientists has calculated that climate change will cause the world's ecosystems to move at an average speed of 0.42 kilometres per year to keep up with temperature changes and that the projected speed will vary from one ecosystem to another -

<http://www.sciencedaily.com/releases/2009/12/091223133337.htm>. The study was published in the December 24 issue of Nature -

<http://www.nature.com/nature/journal/v462/n7276/abs/nature08649.html>.

- The Nature Conservancy is offering an online training program on Reef Resilience to provide guidance on building resilience to climate change into the design of Marine Protected Areas (MPAs) and daily management activities. The course is free and participants can work it at their own pace -

http://www.reefresilience.org/Training_Online.html.

- The InterAcademy Council, a multinational body of science academies, has been asked to conduct an independent review of the processes and procedures of the Intergovernmental Panel on Climate Change (IPCC). The review was requested by the United Nations Secretary-General and the chair of the IPCC -

<http://www.nationalacademies.org/morenews/20100310.html>.

- The UNESCO publication entitled "Climate Change and Arctic Sustainable Development" documents the knowledge, concerns and visions of Arctic scientists, leaders and international experts. Topics include: ice, oceans and atmosphere; biodiversity and ecosystems services; community-level impacts and adaptation; and monitoring systems. Purchase information is available at

http://publishing.unesco.org/details.aspx?Code_Livre=4722.

- The interactive North American Environmental Atlas - a trilateral partnership coordinated by the Commission for Environmental Cooperation - provides access to geospatial data and map layers related to significant continental environmental issues. A new addition to the Atlas shows the marine protected areas (MPAs) of North America that are managed by national, state, provincial, or territorial authorities -

<http://www.cec.org/naatlas>.

- Impacts of Climate change on the Eco-Systems and Chemistry of the Arctic Pacific Environment (ICESCAPE) is a multi-year NASA shipborne project. Most of the research will take place in the Beaufort and Chukchi Seas in the summer of 2010 and the fall of 2011 -

<http://www.espo.nasa.gov/icescape/>.

- The Coastal Connections Newsletter is a bimonthly publication from NOAA on tools for coastal resource managers. The June/July issue of the Newsletter focuses on negotiations with regard to coastal resources - <http://www.csc.noaa.gov/newsletter/>.

- Resources available in NOAA's Coastal Climate Adaptation website include: adaptation and action plans; case studies and strategies; climate change communication; guidebooks and outreach materials; and training and workshop materials - <http://collaborate.csc.noaa.gov/climateadaptation>.

- The IUCN publication "A Framework for Social Adaptation to Climate Change - Sustaining Tropical Coastal Communities and Industries" describes how to "manage for climate resilience" through the maintenance of properties that confer resilience. It also outlines a framework for understanding the vulnerability of communities and marine-based industries to climate change, both through direct effects and through impacts on ecosystem goods and services -

http://www.iucn.org/knowledge/publications_doc/publications/.

The Officers and Steering Committee of the Commission on Coastal Systems consist of the following members at present:

Chair/président

Prof. Edward J. Anthony,
Université de Provence,
CEREGE, UMR CNRS 6635,
Europôle Méditerranéen de l'Arbois,
13545 Aix en Provence Cedex 4,
FRANCE
anthony@cerege.fr

Past Chair/Ancien Président

Prof. Douglas J. Sherman
School of Geosciences
Department of Geography
Texas A & M University
College Station, Texas,
U.S.A.
sherman@geog.tamu.edu

Vice-Chair/vice-président

Prof. Colin Woodroffe
School of Earth and Environmental Sciences,
University of Wollongong,
Wollongong, NSW 2522,
AUSTRALIA
colin@uow.edu.au

Members of the Steering Committee

Prof. Adoté Blivi,
Director,
Centre de Gestion Intégré du Littoral et de
l'Environnement,
Université de Lomé,
B.P. 1515, Lomé,
TOGO
cgileul@yahoo.fr

Dr. Darius Bartlett
Department of Geography
University College Cork
Cork
IRELAND
d.bartlett@ucc.ie

Dr. Françoise Breton
ETC/TE Deputy-Manager
European Topic Centre Terrestrial Environment
Universitat Autònoma de Barcelona
Edifici C - Torre C5, 4a planta
E-08193 Bellaterra (Barcelona)
SPAIN
Francoise.Breton@uab.cat

Prof. dr. Helmut Brückner
Universität Marburg
Fachbereich Geographie
D-35032 Marburg/Lahn
GERMANY
h.brueckner@staff.uni-marburg.de

Prof. Paolo Ciavola,
Dipartimento di Scienze della Terra,
Università di Ferrara,
Via Saragat 1,
44100 Ferrara,
ITALY
cyp@unife.it

Dr. David R. Green
Centre for Marine and Coastal Zone Management
Department of Geography and Environment
College of Physical Sciences
University of Aberdeen,
AB24 3UF, Scotland
UNITED KINGDOM
d.r.green@abdn.ac.uk

Prof. John R.C. Hsu,
6 Moline Court
CHURCHLANDS, (Perth)
WA 6018
AUSTRALIA
jrchsu@faculty.nsysu.edu.tw

Dr Derek Jackson
Centre for Coastal and Marine Research
School of Environmental Sciences
University of Ulster
Cromore Road, Coleraine
Northern Ireland BT52 1SA
UNITED KINGDOM
d.jackson@ulster.ac.uk

Dr. Antonio Henrique da F. Klein
UNIVALI-CTTMAR
Rua Uruguai, 458, Centro
Itajaí, SC,
BRAZIL CEP 88302-202
klein@univali.br

Dr. Jeffrey Ollerhead
Dean of Science
Mt. Allison University
65 York Street
Sackville, New Brunswick
CANADA E4L 1E4
jollerhe@mta.ca

Prof. Dr. Andreas Vött
Department of Geography
Universität zu Köln
Albertus-Magnus-Platz
50923 Köln / Cologne
GERMANY
andreas.voett@uni-koeln.de

Secretary/Secrétaire, Editor of Newsletter
Prof. Norbert P. Psuty
74 Magruder Road
Institute of Marine and Coastal Sciences
Rutgers University
Highlands NJ 07732 ,
U.S.A.
psuty@marine.rutgers.edu

The IGU Commission on Coastal Systems (CCS) web site 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.

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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Communication with the editor

E-mail: psuty@marine.rutgers.edu

Fax: 01-732-872-1586

Phone 01-732-708-1462