

newsletter

Union Géographique Internationale
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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 2011, and the CCS, especially under the strong impetus of Norb Psuty, has been active in meetings, notably at the EGU in April in Vienna, Austria, and at ICS 2011 in Szczecin, Poland, opening up the way for a larger membership and for sponsorship by the Journal of Coastal Research, a journal emblematic of the diversity of the scope of the CCS. This 66th newsletter drafted by Norb invites you to participate in 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. Some of these meetings will benefit from patronage by the CCS. We hope members of the Commission on Coastal Systems 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!

Our thoughts at this time of the year, when many in the northern hemisphere are poised to enjoy a much-served summer break, go out to those coastal communities and ecosystems faced with disaster, especially in Japan, following the devastating tsunami that struck Sendai on March 11 this year.

EDWARD ANTHONY

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

SEPTEMBER 5-8, 2011, OOSTENDE, BELGIUM
CoastGIS 2011 Conference

CoastGIS 2011 is organized by the Coastal & Marine Union/EUCC (www.eucc.net), and CORILA – Consortium for Coordination of Research Activities Concerning the Venice Lagoon System, based in Venice, Italy (www.corila.it).

CoastGIS 2011 is hosted in Oostende, Belgium, by the Intergovernmental Oceanographic Commission (IOC) of UNESCO, International Oceanographic Data and Information Exchange (IODE) Project, and the Flanders Marine Institute (VLIZ), situated in the new InnovOcean site on the quayside of Oostende harbour.

The Conference is endorsed by the IGU's Commission on Coastal Systems, the ICA Commission on Marine Cartography, the Global Spatial Data Infrastructure (GSDI) Association, the Open Geospatial Consortium (OGC), EurOcean – the European Centre for Information on Marine Science and Technology, and CSIR – the Council for Scientific and Industrial Research, South Africa.

The main theme this year is “Marine and Coastal Spatial Planning”. Other themes include:

- Applying Geospatial Data Interoperability Standards (to improve Data Sharing)
- Advances in Remote Sensing, Earth Observation and Imagery Processing and Management
- New Sensors & Sensor Webs (in the coastal and marine environments)
- Advanced Visualisation Tools and Technologies
- Mobile GIS in the Marine Environment
- “IT at Sea” – Advances in Hydrographic Survey Techniques, Tools and Technology
- Open Source GIS for Coastal/Marine Applications
- Management Tools for Integrated Coastal Zone Management (ICZM)
- Exploring and Managing Marine Boundaries Issues
- Advances in Decision Support Systems (DSS) for ICZM
- Modelling Coastal Processes
- Managing Risks in Coastal Environments
- Impact of Climate Change on the Coast, Coastal Communities & Marine Resources
- Environmental Conservation in the Coastal Zone
- Pollution Monitoring and Control
- Sustainable Use of Coastal Resources
- Integrating Coastal and River Basin Catchment Data
- Disaster Monitoring and Mitigation at the Coast
- Informing and Involving the Public in Coastal Decision Making
- Planning for Sustainable Coastal Tourism
- Coastal Planning and Management for Small Islands
- Protecting Coastal Heritage
- Coastal/Marine Spatial Data Infrastructures (including Access and Sharing Policies)
- Marine Spatial Planning and Monitoring
- Socio-economic Issues Affecting Coastal Communities
- Public Participation GIS (PPGIS) for Coastal Communities (Best Practice Examples)
- IT in Education & Training for Coastal Zone Researchers and Managers (e-Learning and the Internet)

Important Dates and Deadlines

- Deadline for Submission of full Papers and Posters - 30 June 2011
- Dead line for Extended papers for publication in official Journal - 31 October 2011
- CoastGIS 2011 Workshops on 5 September 2011 & Conference from 6 – 8 September 2011

For more information, visit www.coastgis.info or contact **Roger Longhorn**, CoastGIS 2011 Local Secretariat, at coastgis2011@coastgis.net or ral@alum.mit.edu.

AUGUST 31- SEPTEMBER 2, 2011, OOSTENDE, BELGIUM

The **International Coastal Atlas Network (ICAN)** will hold its 5th workshop on building interoperable approaches to federated coastal atlases at UNESCO IODE headquarters, 31 August to 2 September 2011, Oostende, Belgium, just in advance of CoastGIS 2011

See <http://icoastalatlans.net> for more information on ICAN

APRIL 22-27, 2012, EUROPEAN GEOSCIENCES UNION, VIENNA, AUSTRIA
Special Session on the Coastal Zone Geomorphological Interactions: Natural Versus Human-Induced Driving Factors

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 will focus on the mechanisms responsible for coastal erosion and shoreline behavior (advance or retreat) and will address the many natural and anthropogenic factors involved. The topics may include 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 welcome: 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.

This session is being organized by **Andreas Baas (UK)**, **Margarita Stancheva (Bulgaria)**, and **Giorgio Anfuso (Spain)** in association with the IGU Coastal Commission.

January 17, 2012 is the deadline for receipt of abstracts.

For more information on the **EGU General Assembly 2012 (EGU2012), 22–27 April 2012, Vienna, Austria**, please visit the website: <http://meetings.copernicus.org/egu2011/> and information about the EGU itself can be found at <http://www.egu.eu>.

AUGUST 26-30, 2012, INTERNATIONAL GEOGRAPHICAL CONGRESS, COLOGNE, GERMANY

The 32nd International Geographical Congress in Cologne focuses scientific attention on the core themes of humanity. Researchers from around the world are expected in Cologne in 2012. Geographers bring the wide-ranging perspectives and methodology of their subject to bear on four major thematic complexes and contribute to the solution of urgent scientific and socio-political issues – bringing research down to earth:

Global Change and Globalisation
Society and Environment
Risks and Conflicts
Urbanisation and Demographic Change

Additionally, there will be two scientific symposia within the IGC 2012:
Symposium on Geographie & Schule (in German)

Symposium on Applied Geography

Submission of proposals for thematic sessions: 1 July 2010 to 1 April 2011

Submission of papers and posters: 1 July 2011 to 15 December 2011

Further information is on the IGU Congress website: <http://www.igc2012.org/>

APRIL 8-12, 2013. UNIVERSITY OF PLYMOUTH, UK
12th INTERNATIONAL COASTAL SYMPOSIUM

The symposium will be organized by the **Coastal Processes Research Group** at the **University of Plymouth**. The University is located in the middle of the city within easy walking distance of hotels and restaurants, and within a 15 minute stroll from the water front. The plenary sessions, coffee/tea breaks, buffet lunch and evening drinks will all take place in the iconic and award winning Roland Levinsky Building.

Conference sessions

1. Barriers and barrier islands
2. Beaches and nearshore processes
3. Climate change
4. Coastal ecology and pollution
5. Coastal engineering
6. Coastal evolution
7. Coastal geomorphology
8. Coastal hazards
9. Coastal management, policy and planning
10. Coral reef coasts and processes
11. Deltas and river-outflow processes
12. Dunes and aeolian processes
13. Estuaries and tidal processes
14. GIS and remote sensing applications
15. Hydrodynamics
16. Numerical modelling of coastal processes and systems
17. Rocky coasts and geological inheritance

Further information is on the website: <http://ics2013.org/>

MEETINGS WITH COASTAL INTERESTS

SEPTEMBER 6-8, 2011. TSINGHUA UNIVERSITY, BEIJING, CHINA
7th IAHR Symposium on River, Coastal, and Estuarine Morphodynamics.

The focus of this conference will be on the Impacts of Hydro-Projects on River, Coastal, and Estuarine Processes.

The Conference themes will include:

Processes

Field investigations,, experiments, and simulations

Man-nature interactions

Further information is at: <http://sklhse.tsinghua.edu.cn/rcem2011/rcem2011.html>

SEPTEMBER 13-14, 2011. THE HAGUE, THE NETHERLANDS
Adapting to Coastal Change: Local Perspectives

This conference and field meeting is organised under the auspices of the INTERREG 4B NWE Project, IMCORE (Innovative Management for Europe's Changing Coastal Resource). The meeting aims to address the issues of adapting to coastal change with a focus on local level challenges and approaches and is aimed at both practitioners and researchers. The conference will be global in its geographical scope and will include a number of keynote speakers (names to be confirmed in second circular) with an international profile in coastal change adaptation.

The conference will be organized under the following themes:

1. Shoreline management (adapting to shoreline change)
2. Institutional and governance issues
3. Developing adaptation strategies at the local level (methods and scenarios)
4. Spatial planning as a tool for adaptation
5. Nature conservation
6. Local government experiences

Each theme will be addressed in a plenary session by a small number of speakers followed by a plenary discussion.

Poster presentations will be centered around each of the themes.

further details are at the following website: <http://imcore.eu/TheHagueConference2011/>

SEPTEMBER 27-OCTOBER 1, VANNES, FRANCE
HOMER 2011, ANCIENT COASTAL SETTLEMENTS AND HUMAN/ENVIRONMENT
RELATIONSHIPS ON THE ATLANTIC COAST OF EUROPE

The Homer symposium provides an opportunity for an inventory of research on ancient coastal settlements on the Atlantic seaboard of Europe by confronting case studies and thematic approaches on a particular indicator or question. The aim of the conference is to generate comparative European reflections on the way geoarcheological and paleoenvironmental research has thrown light on the evolution of coastal landscapes and on interactions between humans and these landscapes. Specific attention will be given to:

- the reconstruction of paleogeographical transformations at various space- and timescales;
- the impacts such transformations may have had on the spatial organization of coastal societies;
- the consequences of the actions of coastal societies on the environmental equilibrium of Atlantic coasts.

For further information consult: homer2011@univ-rennes1.fr

OCTOBER 25-29, 2011, MEDCOAST 11, RHODES, GREECE
10th International Conference on Mediterranean Coastal Environment

The goal is to enhance collaboration among various actors, especially from the Mediterranean and the Black Sea countries, which would lead to products and instruments contributing to better management of the coastal and sea areas of these basins. These build on efforts started at the governmental levels. In this very suitable environment, MEDCOAST's initial goal was highly achieved by the establishment of very productive international links under the MEDCOAST umbrella. Furthermore, collaboration was extended across two basins. MEDCOAST provided the first channels through which Mediterranean and Black Sea coastal management problems and experiences were disseminated for addressing them collaboratively.

General themes for this conference include:

- Coastal Systems, Conservation Issues
- Integrated Coastal Management
- Coastal Management Issues
- Sustainable Development of Coastal Areas
- Coastal Engineering, Modelling, Decision Support Systems and Data Management

For additional information, contact the MEDCOAST Foundation at:

Mail: Maras Mah, Kaunos Sok, No 26, Dalyan 48840 Ortaca, Mugla - Turkey

Telephone: 90 2522844450 - 90 5332249993

Facsimile: 90 2522844405

E-mail: medcoast@metu.edu.tr

[http: www.medcoast.org.tr](http://www.medcoast.org.tr)

**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

**November 14-18, 2011 Regional International Geographical Union
Escuela Militar, Santiago, Chile**

This conference follows the concept of "United and Integrated with the World" in order to extend the scope of this conference not only to Latin America but also to share culture, style, and viewpoint with the world. This integration is strengthened by overcoming the language barrier, as there will be a service for interpreting the scientific sessions between the English and Spanish languages.

Go to www.ugi2011.cl to submit your abstracts and to get more information about the program.

Email: Email: info@ugi2011.cl

**NOVEMBER 15-16, 2011. BELFAST, UK
Coastal Management 2011**

Innovative Coastal Zone Management: Sustainable Engineering for a Dynamic Coast

Coastal zones around the world are vital to recreation, travel, tourism and wildlife but also play an increasingly **important role in energy capture, international trade, habitation and the economy**. The coast provides engineers and scientists not only with numerous opportunities for development, but also a

host of challenges and barriers to successful management.

ICE's 7th Conference on Coastal Management will cover an extensive range of subjects including; policy, engineering, management and social and environmental implications. Featuring expert addresses from professionals, focusing on sustaining and developing coastal zones, and the barriers that need to be overcome to allow coasts to meet our economic and social aspirations while respecting their natural function.

The conference is the seventh in this series recognised for its focus on current issues, and its **balance between research and practical application**. The event will be a forum for forthright discussion, highlighting advances and solutions as well as identifying key areas of debate.

Coastal Management 2011 will comprise keynote addresses by leading experts and technical paper presentations. Papers will be made available to delegates prior to the conference and following the event the papers that have been presented will be included in the formal proceedings.

<http://www.ice-coastalmanagement.com>.

NOVEMBER 20-14, 2011, MARRAKESH, MORROCO **International Conference for Water Resources and Environment**

The Conference on Water and Environment in a changing World, GIWEH- Environment 2011 aims to bring together researchers, scientists, engineers, private sector, international organizations, academia, NGO's and scholar students to exchange and share their experiences, ideas, and research results, and to discuss the practical challenges encountered in all aspects of water and environment in a changing world. The proceedings at the conference will subsist in a special publication for the University of Geneva as a journal article entitled "Terre et environment" land and environment.

Deadline: All abstracts must be submitted before 1 September 2011.

Papers to be submitted by 20 October 2011.

Further information is available at: <http://en.icwre.com/>

NOVEMBER 22-24, 2011, TANGIER, MOROCCO **2nd COASTAL AND MARITIME MEDITERRANEAN CONFERENCE**

This three-day **Mediterranean Conference** comprises two days of conference work including oral presentations and posters separated by one day dedicated to technical visits bearing on important coastal and maritime engineering projects and round tables or workshops.

The goals of this **Special Mediterranean Conference** are: up-to-date knowledge acquisition as far as coastal and maritime engineering in the **Mediterranean** is concerned; allowing exchange of ideas between specialists on concerned subjects; promoting comparison of analyses and experience between researchers and entrepreneurs; favoring contacts between decision-makers, corporations and researchers; presenting new material and techniques, together with the available documents (technical stands); diffusing information on pedagogical activities, research and training concerning coastal and maritime engineering **around the Mediterranean**; favoring network creation; promoting and implementing **Mediterranean research projects**; developing **Mediterranean inter-university and inter-corporation collaborations**.

Fields of Interest will include:

- 1. COASTAL AND MARITIME PORT PLANNING:** *Coastal and port structures: experiment, modeling, design and monitoring in coastal and port engineering; ecological engineering: state of the art and perspectives, ecological restoration ...*
- 2. SEDIMENT TRANSPORT: PROBLEMS AND SOLUTIONS:** *Coastal dynamics, modeling, instrumentation and tools for the treatment of data related to coastal dynamics, monitoring, dredging, sustainable management of sediments ...*
- 3. MARITIME ASPECTS OF WATER SEA DESALTING:** *Structures design and impacts ...*
- 4. COASTAL RISKS MANAGEMENT IN THE MEDITERRANEAN:** *Marine pollution, clean ports, impacts on the ecosystems, global monitoring for environment and security GMES, Pôle Mer PACA grand projects ...*

Workshops will be organized on:

I: Sea energies: Mediterranean potential Workshop

II: Horizons of cooperation horizons for the Mediterranean Workshop

III: Coastal and Maritimes formations: Up to now and future perspectives

IV: Mediterranean Maritime links

The conference acts will be distributed to participants at the conference and will be on open access on the website: <http://www.paralia.fr>

JANUARY 25-27, 2012, CONGRESS IBEROAMERICANO, INTEGRATED COASTAL MANAGEMENT, CADIZ, SPAIN

First Iberoamerican Congress on Integrated Management of Coastal Areas (GIAL) 1, organized by the University of Cádiz (UCA) and the Ibero-American Integrated Coastal Management (Ibermar).

The organization of this event in 2012 will coincide with the bicentenary of the Spanish Constitution of 1812, as well as the Summit of Heads of State and Government, in a scenario, the city of Cadiz, named for the year Cultural Capital Iberoamericana. Also, the days of this Congress will coincide with the organization of the Third Symposium on Marine Science and XVI Iberian Marine Chemistry Seminar.

Integrated Management of Coastal Areas (GIAL) as a synonym for Integrated Coastal Zone Management (ICZM), Integrated Coastal Management (ICM) and Integrated Coastal Zone Management (ICZM), under the guidance following definition:

The GIAL is a dynamic, continuous and iterative process to promote sustainable development through the integration of policies, objectives, strategies and sectoral plans in space and time as well as the integration of terrestrial and marine components of the coastline. It is therefore an instrument of public policy based on cooperation and participation (Barragán Muñoz, JM, 2003).

Further information about the congress is at: <http://www.gestioncostera.es/congresoGIAL/>

APRIL 4-7, 2012, ATHENS, GREECE
5th Annual International Conference on Mediterranean Studies

The Athens Institute for Education and Research (ATINER) organizes its 5th Annual International Conference on Mediterranean Studies in Athens, Greece, 4-7 April 2012. The conference website is: www.atiner.gr/mediterranean.htm. Please submit an abstract (email only) to: atiner@atiner.gr, using the abstract submission form available at <http://www.atiner.gr/docs/2012FORM-MDT.doc> by the **5th of**

September 2011 to: **Dr. Gregory A. Katsas, Academic Member of ATINER and Associate Professor, The American College of Greece-Deree College, Greece.** Abstracts should include the following: Title of Paper, Full Name (s), Affiliation, Current Position, an email address, and at least 3 keywords that best describe the subject of your submission. Decisions are reached within 4 weeks. If you want to participate without presenting a paper, i.e. chair a session, review papers to be included in the conference proceedings or books, contribute to the editing of a book, or any other contribution, please send an email to **Dr. Gregory T. Papanikos, Director, ATINER (gtp@atiner.gr).**

The aim of the conference is to bring together scholars, researchers and students from all areas of Mediterranean Studies, such as history, arts, archaeology, philosophy, culture, sociology, politics, international relations, economics, business, sports, etc. Panel organizers are encouraged to submit their proposals by inviting other scholars that do research in the same area. Specific sessions will be organized on (a) country studies for both the European and non-European countries of the Mediterranean Basin, (b) the environmental, ecological and biological issues of the Mediterranean Sea, and (c) the Mediterranean islands (history, arts, culture, and all aspects of development) such as Cyprus, Malta, Sicily, Sardinia, Corsica, Crete, Euboea, Majorca, Rhodes, Cyclades, Ionian, Dodecanese, etc. The registration fee is 250 euro, covering access to all sessions, two lunches, coffee breaks, and conference materials. Special arrangements will be made with a local luxury hotel for a limited number of rooms at a special conference rate. In addition, a number of special social events will be organized: an official dinner with Greek night of entertainment with dinner, an educational excursion to Delphi, a special one-day educational cruise to the Greek islands, and a half-day tour around the wider area of Athens (Attica), which includes the Acropolis Hill and Parthenon.

The Athens Institute for Education and Research (ATINER) was established in 1995 as an independent academic organization, with the mission to become a forum, where academics and researchers - from all over the world - could meet in Athens to exchange ideas on their research and discuss the future developments of their discipline. Since 1995, ATINER has organized more than 150 international conferences and has published over 100 books. Academically, the Institute consists of four research divisions and nineteen research units. Each research unit organizes at least an annual conference and undertakes various small and large research projects.

OCTOBER 20-24, 2012, RESTORE AMERICA'S ESTUARIES, TAMPA, FLORIDA
6th National Conference on Coastal and Estuarine Habitat Restoration

Restore America's Estuaries' 6th National Conference on Coastal and Estuarine Habitat Restoration is the only national conference focused on the goals and practices of coastal and estuarine habitat restoration. Estuaries and coasts are an important part of America's economy, history, and living culture. The five-day Conference will explore the state-of-the-art in all aspects and scales of restoration, and will be comprised of field sessions, plenary sessions, expert presentations, special evening events, workshops, a poster hall, and the nation's only Restoration Exposition.

<http://www.estuaries.org/conference/>

proposed theme. Asking for expressions of interest – an opportunity
Sea cliff symposium – expression of interest

There is an extensive literature on the coastal habitats saltmarsh, sand dune and shingle (gravel)

structures. By comparison sea cliffs seem to have been neglected. At the EUCC conference in Aberdeen I presented a short paper entitled “Sea cliffs a neglected habitat”. This note is a request to find out if there is sufficient interest in organising a symposium to try to redress this situation.

The subject areas could include:

- Descriptions by continent including location, scale, and habitat;
- Geology, geomorphology (‘hard’ and ‘soft’ rocks);
- Nature conservation values, nature reserves etc;
- Management sea birds, rare species (e.g. chough), invertebrates etc;
- Coastal defence
- Etc.....

Options for the symposium are:

- A standalone meeting (preferences that have been expressed so far are SW England);
- A special session at another conference (the EUCC Littoral 2012 to be hosted by EUCC - The Coastal and Marine Union in Ostend, Belgium);
- A publication without a meeting using the internet.

If you are working on coastal sea cliffs or have an interest in their conservation and management please make contact. Your thoughts, ideas, offers of help or possible contributions to a meeting will be gratefully received. email: Pat.doody@ntlworld.com.

REPORT ON MEETING

REPORT ON EGU2011 GEOMORPHOLOGY SESSION MEETING

EUROPEAN GEOSCIENCES UNION GENERAL ASSEMBLY (EGU2011)

VIENNA, AUSTRIA 03–08 APRIL 2011

REPORT ON: ***GM8.3 SESSION: “COASTAL ZONE GEOMORPHOLOGIC INTERACTIONS: NATURAL VERSUS HUMAN-INDUCED DRIVING FACTORS”***



The meeting of Geomorphology Session GM8.3 on: Coastal Zone Geomorphologic Interactions: natural versus human-induced driving factors” was successfully conducted at the EGU 2011 General Assembly, 03-08 April 2011 in Vienna, Austria. Contributions to this session are focused on the mechanisms responsible for coastal erosion and shoreline behaviour (advance or retreat) as addressing also the many natural and anthropogenic factors involved. The main session topics include studies and works on predictions of shoreline change and discussions on the effects of human activities and their continuing contribution to coastal changes.

This EGU Geomorphology Session was organized for the third time with 24 abstract submissions as it was divided into an oral session of six 15 minute talks and a poster session with eighteen poster presentations. The session has been sponsored by the Commission on Coastal Systems (CCS) of the International Geographical Union (IGU). The oral and poster sessions were both conducted on Monday, 4th of April 2011. The oral programme of the session was chaired by Margarita Stancheva and Andreas Baas (http://meetingorganizer.copernicus.org/EGU2011/oral_programme/7481) and it included six presentations focusing on various coastal zone topics. The oral session was a great success with attendance of more than 80 EGU participants, active discussions on presented oral studies and increased interest to different coastal issues. After the short introduction on CCS goals and activities, the oral session was opened by the Chair of the CCS Prof. Edward Anthony with a study on imbrication of natural and human-induced driving forces over the last five thousand years: an interesting retrospective summary of how human activities had cumulated over the centuries and culminating nowadays.

All oral presentations spanned different coastal regions all over the world and included studies on genesis and morphology of sand spits under natural and anthropogenic impacts; modelling of hydrodynamic changes due to marine aggregate dredging activities; investigation on rapid regional response of coastal sand dunes to climatic changes; studies on sea level rise, morphological changes and predictions of

shoreline behavior on an example of tropical islands; expanded developments of coastal zone and critical effects of poor beach management and engineering approaches. There was a particular impressive presentation on beach nourishment projects on the coasts of United States: the most prevalent form of coastal engendering leading to heavy transformation of many natural beaches from fully functioning geomorphic systems to non-stop engineering projects. More information on this topic can be found at the website of [The Program for the Study of Developed Shorelines](#) at Western Carolina University in Cullowhee, North Carolina, USA.

The poster programme of GM8.3 Session was chaired by Hannes Tonisson and there was a nice presentation of different coastal zone studies from all the worldwide regions (http://meetingorganizer.copernicus.org/EGU2011/poster_programme/7481). There were works on climate change/sea level rise implications on shoreline development; morphological responses of coastal forms (dunes, beaches, bars) to natural processes and anthropogenic factors; and many other researches dedicated to critical ICZM issues.

With this success the EGU Session on coastal zone geomorphic interactions together with the support of CCS has taken on an important role in fostering the exchange of knowledge on coastal geomorphology and experience among researchers to study the variety of natural and human factors that modify the coasts and to face the present challenge to preserve the still remaining geodiversity of our natural coasts.

The next **EGU General Assembly 2012 will be at 22–27 April 2012, Vienna, Austria** and we are looking forward for your active participation.

The 11TH INTERNATIONAL COASTAL SYMPOSIUM, ICS 2011, was held in Szczecin, Poland on May 9-14. Ably organized by Kazimierz Furmanczyk and the staff from the Institute of Marine and Coastal Sciences at the University of Szczecin, the conference incorporated four concurrent sessions (over 250 presentations) over the span of four days, plus local field excursions and a post-conference excursion to the coast of western Poland. The plenary lectures featured speakers from the international world of coastal science and management, representing activity in Europe, the United States, and Australia. These lectures were presented in a specially-constructed geodesic dome adjacent to the conference hotel. Because of the size of the dome, all of the posters (170+) were on display concurrently throughout several days of the conference. The conference proceedings have been published as Special Publication 64 in the Journal of Coastal Research, and it is available on the ICS2011 website as: http://www.ics2011.pl/index.php?option=com_content&view=article&id=75&Itemid=80



Kazimierz Furmanczyk opening the Symposium in the geodesic dome.



Posters on display inside the dome



Group on field excursion to Wolin Island, structures at base of cliffed glacial moraine.

As an aside, the presentation selected as best from among the series of excellent presentations was by Norbert Psuty and Tanya Silveira, Tracking Coastal Geomorphological Change: An Application of Protocols to Collect Geotemporal Data Sets at the National Level in the US.
Submitted by Norbert P. Psuty

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.

The premiere worldwide GIS organization (Esri) recently announced that **Dawn Wright** (geographer/ocean scientist/geo-science expert) of Oregon State University has been appointed as Chief Scientist in the company. She will have a leadership role in advancing the scientific component of Esri's efforts. Dawn Wright brings a wealth of GIS and oceanographic talents to the position. She will be a positive force for our coastal and marine network.



Dawn Wright (Oregon State University) informs us of a new publication that is sure to be of interest to many of our membership

"Coastal Informatics: Web Atlas Design and Implementation" 2010/2011 Edited by Dawn J. Wright (Oregon State University, USA), Edward ("Ned") Dwyer and Valerie Cummins* (Coastal & Marine Resources Centre, Ireland, *now at the Maritime and Energy Research Campus and Commercial Cluster) Publisher by IGI-Global, Hershey, PA DOI: 10.4018/978-1-61520-815-9, ISBN13: 9781615208159, 350 pp. <http://icoastalatlans.net/handbook> Chapters available upon request.

Working in collaboration with information science and technology publisher, IGI Global, ICAN compiled the results of four international workshops to create the recently released, "Coastal Informatics: Web Atlas Design and Implementation." Acting as editors were ICAN coordinators Dawn Wright, Ph.D. (Oregon State University, USA), Ned Dwyer, Ph.D. (University College Cork, Ireland), and Valerie Cummins, M.Sc. (University College Cork, Ireland).

This publication presents the emerging development of coastal web atlases through a series of case studies which give practical guidance on geographic data management and documentation through standards-based metadata, as well as making underlying geographic databases interoperable. This resource is of practical use in web atlas design, development and implementation for improving spatial thinking in the coastal context, with innovative chapters that bring together key experts from Europe, the United States, the Caribbean, Africa, and Australia.

Praised by Jacqueline McGlade, Executive Director of the European Environment Agency as a book with tremendous value and use, McGlade further asserts that it will "help actions in the field of coastal zone integrated assessments, including coastal zone use potentials, vulnerabilities and adaptation needs to environmental changes."

This IGI Reference Source is aimed at coastal resource managers and consultants, coastal scientists, coastal technologists, government researchers, and graduate students. It is also recommended by the editors as a beneficial publication for course supplementation in intermediate, advanced courses in coastal/marine GIS or coastal zone management at traditional and distance learning institutes. In addition, the publication is also accompanied by a dedicated website International Coastal Atlas Network, <http://icoastalatlans.net>) to provide further elaboration on advanced themes.

For more information on this title, please visit: <http://icoastalatlans.net/handbook> .

Tarik Ghodbani announces the publication of his book: Man and Environment

Man and environment in western coast of Algeria, from Kiss River to Dahra mountains, European academic editions,,,

Editions Universitaires
Europeennes, 2011. Available
through superbookshop.net

Abstract:

The book deals with the problem of intensive coastal growth and its impacts on environmental in the western coast of Algeria, "From the slope of the Dahra mountains eastward to Oued Kiss Westward " It focuses on the man – environment relationship by combining the knowledge of physical geography to human geography. It analyzes the different modes of occupation of the coastal area, and addresses the interactions between different components of the landscape at the ecological, economic and social level. The work is structured in three parts, and includes analysis based on case studies. The first deals with environmental issues by three entries: the disruption of coastal dynamics, the loss of biodiversity and degradation of the natural landscape. The second focuses on explaining the causes of degradation through the study of coastal growth and its various mutations at the regional and local level. The third and final section is devoted to the study of management tools, the main actors involved and the use conflicts around the issue of environment and coastal land, in order to end up final to a set of proposals for an integrated management of coastal areas in Algeria, in general, and the west coast in particular. Two methods are applied: one diachronic and the other multiscalaire. The diachronic deals with evolution over time of the interactions between coastal occupation and natural landscape. The multiscalaire deals with an analysis of various phenomena through several layers of scales, from local to global, and vice versa.

John Houston and **Paul Rooney**, Liverpool Hope University, announce the availability of the Tenth 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. This issue also includes the first contribution to the **European Dune Network Newsletter**. 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 Alexi Westcott, the ACZISC Secretariat. The full version is available at: <http://aczisc.dal.ca>

- The ACZISC has launched its new website, please visit at: <http://coinatlantic.ca>.

- The ACZISC Secretariat is interested in the Coastal Update readers' opinions and comments on their interest in and the usefulness and value of the Coastal Update. Please respond to a short survey at: <https://surveys.dal.ca/opinio/s?s=coinatlantic>.

MARINE ECOSYSTEM-BASED MANAGEMENT PRINCIPLES

PacMARA (Pacific Marine Analysis and Research Association) held a Marine Ecosystem-based Management (EBM) Workshop for Canada's Pacific coast and ocean in March 2010. A working group subsequently completed the Marine EBM principles called "The Sidney Consensus". The principles

provide a basis for consistent legislation, planning, regulation, enforcement, monitoring, and adaptive management of human activities - http://pacmara.org/ebm_dialogue.

STATE OF THE WORLD'S OCEANS REPORT

The first "World Ocean Review", published by Maribus in cooperation with the Future Ocean, the International Ocean Institute and Mare, is now available in English. The Review reports on the state of the world's oceans and their interplay with ecological, economic and socio-political conditions. Topics include global climate drivers, chemistry, the coasts, pollution, ecosystems, minerals and energy, global trade, medical knowledge, and the Law of the Sea. The Review is available at <http://worldoceanreview.com/en>.

MOSAICS OF RADARSAT-1 IMAGES ONLINE

RADARSAT-1 images have been collected for the past 15 years and can be used for studying coastal features, wetlands, terrestrial geology, geomorphology, vegetation, urbanization and ice dynamics. Mosaics of Canada, the United States, Africa, Australia and Antarctica are now available to the general public and can be downloaded (without restriction) on the Canadian Space Agency website - <http://www.asc-csa.gc.ca/eng/satellites/radarsat1/mosaic.asp>.

MARINE SPATIAL PLANNING IN THE EU

The European Commission has published a Communication entitled "Maritime Spatial Planning in the EU - Achievements and future development". The report concludes that action is now needed at EU level to ensure that Maritime Spatial Planning is deployed in the most coherent and effective way possible - http://ec.europa.eu/maritimeaffairs/spatial_planning_en.html.

ICES ICZM WORKING GROUP REPORT - 2010

The Integrated Coastal Zone Management Working Group of the International Council for the Exploration of the Sea (ICES) met on 9-11 March 2010 in Mallorca, Spain. The Working Group discussed how it can respond to current trends within the field of ICZM and Marine/Maritime Spatial Planning (MSP). The meeting report is available at <http://www.ices.dk/workinggroups/ViewWorkingGroup.aspx?ID=108>.

CLIMATE CHANGE GUIDES FOR DEVELOPERS IN NOVA SCOTIA

The Government of Nova Scotia has released two guidebooks designed to help project developers navigate climate change issues: "Guide to Considering Climate Change in Project Development in Nova Scotia" and "Guide to Considering Climate Change in Environmental Assessments in Nova Scotia" - <http://www.gov.ns.ca/nse/ea/pubs.asp>.

COASTAL AND OCEAN MANAGEMENT IN CANADA

Coastal Management is the official journal of The Coastal Society. Volume 39 Issue 1 2011 is titled "Coastal and Ocean Management in Canada: Progress, Challenges and Opportunities". For information, including abstracts and purchase information, access <http://www.informaworld.com/smpp/title~db=all~content=t713626371>.

CLIMATE CHANGE AND CANADIAN MUNICIPALITIES

"Adapting to Climate Change: An Introduction for Canadian Municipalities", published by Natural Resources Canada, provides information on the need for climate change adaptation and how to put adaptation measures in place. The guide also includes case studies that illustrate how municipalities of varying sizes from across the country are taking action - http://www.adaptation.nrcan.gc.ca/mun/index_e.php.

CANADA-US CLIMATE POLICY CHOICES

Canada's National Round Table on the Environment and the Economy (NRTEE) has released a report titled "Parallel Paths: Canada-US Climate Policy Choices" which examines the climate change policy relationship between Canada and the United States. The NRTEE's report offers new analysis, insight and advice on the implications of harmonizing climate policies in Canada with policies in the United States - <http://www.climateprosperity.ca/eng/studies/canada-us/report/canada-us-report-eng.php>.

MARINE AND COASTAL ADAPTATION IN NORTH AMERICA

The report titled "State of Marine and Coastal Adaptation in North America: A Synthesis of Emerging Ideas" provides a brief overview of key climate change impacts on the natural and built environments in marine and coastal North America and a review of adaptation options available. It is the result of EcoAdapt's efforts to survey adaptation projects, programs, and activities in the marine and coastal areas of the United States, Canada, and Mexico - <http://www.cakex.org/virtual-library/1615>.

MAPPING HUMAN USES OF THE OCEAN

The MPA Center in the US has published a best practices manual titled "Mapping Human Uses of the Ocean: Informing Marine Spatial Planning Through Participatory GIS". The report provides detailed lessons learned from various participatory mapping projects and insight to the successful planning and implementation of mapping efforts - <http://www.mpa.gov/resources/publications/reports>

STATE OF MARINE AND COASTAL ADAPTATION IN NORTH AMERICA

EcoAdapt was founded to offer support, training, and assistance to make conservation and management less vulnerable by providing support for climate change adaptation. EcoAdapt has released a report titled "The State of Marine and Coastal Adaptation in North America: A Synthesis of Emerging Ideas". The report provides a brief overview of climate change impacts on the natural and built environments in marine and coastal North America and a review of adaptation options available to (and in use by) marine and coastal managers - <http://www.cakex.org/virtual-library/1615>.

UK MARINE POLICY STATEMENT

A UK Marine Policy Statement has been adopted by all UK Administrations (the UK Government, the Scottish Government, the Welsh Assembly Government and the Northern Ireland Executive) as part of a new system of marine planning being introduced across UK seas. The Marine Policy Statement will enable an appropriate and consistent approach to marine planning across UK waters, and ensure the sustainable use of marine resources and strategic management of marine activities - <http://ww2.defra.gov.uk/news/2011/03/18/marine-policy-statement>.

GLOBAL SEA LEVEL RISE PROJECTIONS

A new report by the International Arctic Monitoring and Assessment Programme titled "Snow, Water, Ice, Permafrost in the Arctic" finds that Arctic ice and snow are melting faster than previously thought. According to the study, Arctic temperatures from 2005 through 2010 have been the highest since record keeping began in 1880. The report also projects sea levels to rise by 35 to 63 inches by 2100 - <http://www.amap.no/swipa>.

MODELLING LAND-USE CHANGES IN EUROPEAN COASTS

The Joint Research Centre has released a report titled "Coastal Zones - Policy alternatives impacts on European Coastal Zones 2000-2050". The study applied a land-use model to simulate two policy alternatives relevant to Integrated Coastal Zone Management. An "Uncontrolled" and a "Sustainable" policy option were compared with a third neutral development scenario and a set of indicators was computed on the basis of the projected European land use maps - http://ec.europa.eu/environment/envec0/impact_studies/pdf/land_use_modelling

%20adaptation_activities_coastal.pdf.

SHORELINE CHANGE ALONG THE NEW ENGLAND AND MID-ATLANTIC COASTS

The report titled "National Assessment of Shoreline Change: Historical Shoreline Change along the New England and Mid-Atlantic Coasts" has been published by the US Geological Survey. The report summarizes the methods of analysis, interprets the results, provides explanations regarding long-term and short-term trends and rates of change, and describes how different coastal communities are responding to coastal erosion - <http://pubs.usgs.gov/of/2010/1118>.

- The EUCC Coastal & Marine News, the international newsletter of the Coastal & Marine Union (EUCC), focuses on EUCC news, climate change, fisheries and aquaculture, coastal management and research, and maritime policy and spatial planning. The December 2010 issue (no 6) is available at <http://www.eucc.net/en/news/CMN2010-06.pdf>.

- The Pew Environment Group issued a briefing and recommendations to the First Intersessional Meeting of the United Nations Commission for Sustainable Development (Rio+20), held on 10-11 January 2011. The document is titled "Bringing the Ocean Back into the Earth Summit". The report calls for an overhaul in international environmental governance, particularly where it pertains to the marine environment - <http://uncsd.iisd.org/news/oceans-briefing-submitted-to-uncsd-intersessional/?referrer=uncsd-update>.

- The World Ocean Observatory (W2O) has launched "Our Ocean Space", a web-based network for the exchange of ocean-related projects, art, and audio-visual presentations. The intent is for youth to share their projects with their counterparts worldwide for educational purposes - <http://www.thew2o.net/newsletter/w2o-announces-our-ocean-space>.

- "Global Ocean Protection: Present Status and Future Possibilities" reports that although the total ocean area protected has risen by over 150% since 2003, MPA coverage is very uneven and does not adequately represent all ecoregions and habitats important for conservation - <http://data.iucn.org/dbtw-wpd/edocs/2010-053.pdf>.

- "Sustainable Development of the World's Large Marine Ecosystems during Climate Change" describes actions underway in a global movement to restore and sustain the world's Large Marine Ecosystems (LMEs) and their multi-trillion dollar annual contribution to the world economy - <http://data.iucn.org/dbtw-wpd/edocs/2010-079.pdf>.

- OSPAR is the mechanism by which fifteen Governments of the western coasts and catchments of Europe, together with the European Community, cooperate to protect the marine environment of the North-East Atlantic. Issue 5 of the OSPAR Commission's e-newsletter is available at http://www.ospar.org/html_documents/ospar/html/ospar_enewsletter_issue5_010211.pdf.

- IOInforma is the news and information bulletin of the International Ocean Institute (IOI). The February 2011 issue includes links to the reports of the Pacem in Maribus XXXIII - International Conference on Oceans, Climate Change and Sustainable Development, held on 2-4 September 2010 in Beijing, China, and the International Conference on the Future Challenges to Coastal Cities held on 6-7 September 2010 in Shanghai, China - <http://www.ioinst.org>.

- NOAA's Coastal Services Magazine is a bi-monthly publication that profiles the efforts of state, community, and non-profit coastal programs. The January/February 2011 issue includes articles on: Marine Spatial Planning in Rhode Island; Creating More Resilient Coral Reefs with an Online Toolkit; and Geocaching around the Great Lakes - <http://www.csc.noaa.gov/magazine/2011/01/index.html>.

- NOAA's Coastal Services Center recently released the Sea Level Rise Impacts Viewer, a new tool for visualizing sea level rise and coastal flooding - <http://csc.noaa.gov/digitalcoast/tools/slrviewer>.
- The report titled "Climate uncertainty and policymaking: A policy maker's view", released by the Global Commons Institute, examines the risks and uncertainties associated with the science of climate change, the scientists' tools and methods and the policy making process. It also considers how these might be integrated and communicated to policy makers http://www.gci.org.uk/Documents/Uncertainty_Paper.pdf.
- "Scanning the Conservation Horizon: A Guide to Climate Change Vulnerability Assessment" has been released by the National Wildlife Federation, NOAA and other partners. The peer-reviewed guide describes the impact of climate change on species and ecosystems and efforts to safeguard these valuable natural resources - <http://www.nwf.org/vulnerabilityguide>.
- "Scotland's Marine Atlas - Information for the National Marine Plan" is an assessment of the condition of Scotland's seas, based on scientific evidence from data and analysis. It features maps, graphics and information about Scotland's seas. - <http://www.scotland.gov.uk/Publications/2011/03/09150354/0>.
- OURCOAST is a three-year project commissioned by the Directorate General Environment of the European Commission to support and ensure the exchange of experiences and best practices in coastal planning and management. The March 2011 issue of the OURCOAST newsletter is available at <http://ec.europa.eu/ourcoast/download.cfm?fileID=1671>.
- The OURCOAST ICZM database with 350 case studies is now online. Experiences and practices described in the case studies cover a wide range of topics, themes, key approaches, and offer various ICZM tools - <http://ec.europa.eu/ourcoast>.
- NOAA's Office of Ocean and Coastal Resource Management (OCRM) has launched a new interactive website called "OCRM in Your State". Using the latest GIS/web technology, the website shows the scope of coastal program investments and successes in NOAA's 34 partner states and territories - <http://coastalmanagement.noaa.gov/inyourstate>.
- NOAA's Coastal Services Magazine is a bi-monthly publication that profiles the efforts of state, community, and non-profit coastal programs. The March/April 2011 issue includes articles on: preparing coastal communities for future floods; tracking septic systems; and creating a framework to adapt to climate change - <http://www.csc.noaa.gov/magazine/2011/02/index.html>.
- IOInforma is the news and information bulletin of the International Ocean Institute (IOI). The March 2011 issue includes information on the IOI-KIDS initiative, and the Women, Youth and the Sea Programme - <http://www.ioinst.org>.
- The EUCC Coastal & Marine News, the international newsletter of the Coastal & Marine Union (EUCC), focuses on EUCC news, climate change, fisheries and aquaculture, coastal management and research, and maritime policy and spatial planning. The February 2011 issue (no 1) is available at <http://www.eucc.net/en/news/CMN2010-06.pdf>.
- The 2nd edition of "Coastal Erosion and Solutions - A Primer" has been published by Coastal Science & Engineering. The updated version includes an expanded discussion of: sea-level rise; the limits of the littoral zone; hurricane impacts and recovery; measurement of erosion; and soft-engineering solutions - <http://www.coastalscience.com>.

- The proceedings of the "32nd International Conference on Coastal Engineering", held from 30 June to 5 July 2010 in Shanghai, China, are available at <https://journals.tdl.org/ICCE/issue/current>.
- Environment Canada now provides on-line access to a number of Ecological Monitoring & Assessment Network (EMAN) publications, including protocols, assessments and reports, as well as tools and resources related to ecological monitoring - <http://www.ec.gc.ca/faunescience-wildlifescience/default.asp?lang=En&n=B0D89DF1-1>.
- The Ecosystem-Based Management (EBM) Tools Network has launched a new on-line EBM Tools Database. The new database is free and is intended to help users find tools for coastal and marine management and conservation projects. The database has information on projects, resources, organizations, and practitioners related to EBM tools - <http://www.ebmtoolsdatabase.org>.
- The National Academies in the US have released a booklet and PowerPoint presentations based on the 2009 report "Ecological Impacts of Climate Change". The report explains general themes about the ecological consequences of climate change and identifies examples of ecological changes - <http://dels-old.nas.edu/climatechange/ecological-impacts.shtml>.
- The New York City Waterfront Vision and Enhancement Strategy has been released. The Strategy includes a comprehensive long-term waterfront plan, and identifies priority projects and potential strategies to increase climate resilience and help the City better withstand coastal storms and flooding - <http://www.nyc.gov/html/waves/html/home/home.shtml>.
- The Coastal Connections Newsletter is a bimonthly publication from NOAA on tools for coastal resource managers. The December/January issue is available at- <http://www.csc.noaa.gov/newsletter>.
- The Coastal GeoTools Conference, held every two years, focuses on geospatial data, tools, technology, and information for coastal resource management professionals. The 2011 Conference was held on 21-24 March in Myrtle Beach, South Carolina. The presentations are available at <http://geotools.csc.noaa.gov>.
- NASA and its partners have initiated fifteen projects to detect and understand biological responses to climate. The projects will make use of global satellite data of the physical environment, ground-based data on specific species and ecosystems (including coastal salt marshes) and computer modelling - http://www.nasa.gov/topics/earth/features/climate_partners.html.
- NOAA's Coastal Services Magazine is a bi-monthly publication that profiles the efforts of state, community, and non-profit coastal programs. The May/June 2011 issue includes articles on: mapping offshore wind energy development; adapting to climate change impacts in Maryland; cleaning up marine debris in South Carolina; and using social media to visualize future sea level rise in Washington State - <http://www.csc.noaa.gov/magazine/2011/03/issue.pdf>.
- NOAA has added a new theme to its NOAAWatch web portal: Storm Surge and Coastal Floods. The new page offers information about hazards and associated forecasting, modelling, planning, and actions - http://www.noaawatch.gov/themes/coastal_inundation.php.
- "The Atlas of Coasts and Oceans Ecosystems, Threatened Resources, Marine Conservation" is a new book by Don Hinrichsen. The Atlas accounts how urbanization, climate change, offshore oil drilling, shipping routes, global tourism, and maritime conflict have had a profound impact on the world's oceans and coasts. This volume addresses the ecological, environmental, and economic importance of marine phenomena such as coral reefs, eroding shorelines, hurricanes, and fish populations - <http://press.uchicago.edu/ucp/books/book/chicago/A/bo11754219.html>.

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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

BECOME A CORRESPONDING MEMBER OF THE IGU COMMISSION ON COASTAL SYSTEMS

The membership dues consist of your involvement in the activities in the Commission and/or your contributions to the Newsletter. The absence of participation will cause your membership to lapse.

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Share your information and experiences. Provide information on your professional activity and the items you think will be of interest to your fellow members.

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Thank you for your cooperation. NORB PSUTY

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