

# newsletter

Union Géographique Internationale  
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Norbert P. Psuty, Editor

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

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## Message from the Chair

The IGU Commission on Coastal Systems wishes you the very best for the year 2006. We are looking forward to a productive and diverse plate of CCS activities over the next 12 months. We closed the books on 2005 with the delivery of the International Bibliography of Coastal Geomorphology. **Leonie van der Maesen** compiled and edited the project based on contributions from dozens of CCS members and non-members. Copies of the bibliography are being distributed via CDs enclosed in an upcoming number of the Journal of Coastal Research. Other copies are being sent directly to contributors, providing Dr. Maesen has a viable mailing address. For others, a limited number of copies may be available by corresponding directly with Dr. Maesen. If references to your own publications, including project reports, are not included in the Bibliography it is because you did not forward them to the commission and the person responsible for your country did not produce the country listing or left your work out. The compilation and production of this project only works, beyond something that we could produce using an internet search engine, to the extent that our members participate. This last point is an important reminder, because we will soon be beginning the process of compiling the 2003 through 2006 edition of the Bibliography. We will be looking for volunteers.

The 6<sup>th</sup> Congress of the International Association of Geomorphologists was held in Zaragoza, Spain. **Cari Zazo** and **Norb Psuty** organized paper and poster sessions on coastal geomorphology that were sponsored by CCS. The final program included 26 oral and 40 poster presentations, with representation from 19 countries. There was an impressive atmosphere established by the diversity and intensity of coastal research presented. The incoming officers of the IAG include **Andrew Goudie** as President and **Mike Crozier** as Vice-President for the period 2005-2009. The 7<sup>th</sup> Congress will be held in Australia/New Zealand in 2009. Preceding that congress will be regional meetings. In September 2006 there will be a meeting in Brazil, with CCS sessions being coordinated by **Antonio Klein** (member of the CCS Steering Committee) (see announcement below). In June/July 2007, a regional conference is scheduled for

Malaysia. We are looking for a member to step up to organize paper sessions or a coastal field trip for that meeting.

The first CCS activity of 2006 is the First International Tsunami Field Symposium, organized by **Dieter Kelletat** and **Anja Scheffers** (particulars presented below). At last notice the Symposium was fully subscribed. However spaces may become available at the last moment if you are interested. Please contact the organizers directly for information.

Please pay special attention to the information concerning the forthcoming IGU2006 Conference in Brisbane, Australia, July 3-7, 2006. CCS has reserved time slots for five sessions (25 papers): two for coastal geomorphology; two for coastal resources and management; and one for coastal change, monitoring, modeling and management. The sessions are slated to be held on the morning and afternoon of Thursday, July 6, and the morning of Friday, July 7. Abstracts should be submitted online ([www.igu2006.org](http://www.igu2006.org)) before March 7, 2006. Instructions for abstracts may be found at that site. Please indicate that you would like your paper included in the submissions for C04.05, Coastal Systems, and state your preference for the appropriate session theme. Please also notify **Norb Psuty** and **Doug Sherman** when you submit your abstract, and indicate your paper's title. If you miss the March 7 date, your paper may be included in general paper sessions rather than CCS sessions. Your participation in our sponsored sessions is important to continue to demonstrate the vitality of our commission. And for those traveling long distances to this conference, or with the additional time, note that there is a quickly following conference, CoastGIS '06, in Woolongong, 13-17 July. **Colin Woodroffe** (member of the CCS Steering Committee) is organizing some CCS activities at this conference. More information on this meeting is provided below.

Check out the new and exciting information on the CCS Study Groups on **Machairs** and on **Rocky Coasts** noted below in this Newsletter. If you wish to consider formation of additional Study Groups through the Coastal Commission, communicate directly with me regarding your proposal.

Finally, some quick thoughts about last summer's spate of hurricanes in the Atlantic. It was the busiest hurricane season on record – either a statistical accident, or perhaps a consequence of global warming. And it is clear that if we wait long enough, similar or greater storminess will occur. Therefore it is critical that we examine lessons from these events and use that knowledge to reduce potential losses in the future. So what should be done with New Orleans? Mostly below sea level and protected only by its vulnerable systems of dikes, it remains a target for future disaster. After the 1900 hurricane that devastated Galveston, Texas, much of the island's surface was raised in elevation to reduce the risk of flooding. Should this be on the table for New Orleans? Maybe we could kill two birds with one stone, and use the Crescent City as the national landfill for a few decades, and then rebuild atop the mound. But what about Miami, Tampa, and Houston. And what are the lessons for other coastal nations?

**DOUG SHERMAN**

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**\*\*\*COASTAL COMMISSION MEETING\*\*\***

**March 1-5, 2006, IGCP Project 495: First International Tsunami Field Symposium, Bonaire.**

**Dieter Kelletat** and **Anja Scheffers**, Germany, have offered to organize a field symposium on Bonaire Island with the theme "High Magnitude-Low Frequency Events at the Coast: Tsunami and Hurricanes," emphasizing field evidence for such events in a portion of the Caribbean. For those who are

interested in learning more about the Field Symposium, you are asked to complete the form attached to the end of this communication and to submit it to Dieter Kelletat.

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**3-7 JULY, 2006. IGU REGIONAL CONGRESS, BRISBANE, AUSTRALIA.**

**AND**

**13-17 JULY 2006, COASTGIS '06,  
EXTENDING THE SPATIAL DATA INFRASTRUCTURE**

**Colin Woodruffe**, Australia, informs us that there will be coastal sessions planned for the Regional IGU meeting in Brisbane. This will be followed by a CoastGIS '06 meeting in Wollongong and Sydney. Colin is serving as the lead person for coastal sessions at the IGU meeting and is a co-organizer for the CoastGIS gathering. Please express your interest in either of these meetings by contacting Colin at:

Prof. Colin Woodroffe  
School of Earth and Environmental Sciences,  
University of Wollongong,  
Wollongong, NSW 2522  
Australia  
[colin@uow.edu.au](mailto:colin@uow.edu.au).

**Register your interest in the CoastGIS '06 with Ron Furness at the following:**  
[rfurness@ozemail.com.au](mailto:rfurness@ozemail.com.au)

**The conference Website is:** [www.uow.edu.au/science/eesc/conferences/coastgis06.html](http://www.uow.edu.au/science/eesc/conferences/coastgis06.html)  
or [www.coastgis.org](http://www.coastgis.org)  
you may register on the website. There is an early registration discount.

Extended Abstracts (to 1,000 words) are called for and are due by **28 February 2006**.

The theme will be GIS for the coastal zone: spatial data. modeling and management. Preliminary details of this, the seventh international conference are available on:  
<http://www.uow.edu.au/science/eesc/conferences/coastgis06.html>

The CoastGIS'06 conference is being held in the week after the International Geographical Union (IGU) conference in Brisbane which is in the first week of July. There will be several related sessions at IGU, including a session on coastal systems proposed by the Commission on Coastal Systems; a session on marine spatial data, directly related to Oceans 21, supported by the Commission on Marine Geography, and the Commission on Geographic Information Science; and probably also a session on natural disasters focusing around the Aceh tsunami, and reflecting the IGU Resolution on Natural Disasters. If you are interested in participating in the coastal sessions at either IGU or CoastGIS'06, and for further information, contact **Colin Woodroffe**, [colin@uow.edu.au](mailto:colin@uow.edu.au).

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**CCS CO-SPONSORED MEETINGS**

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**SEPTEMBER 17-22, 2006. BALNEARIO CAMBORIU, SANTA CATARINA, BRAZIL  
IGCP 495 meeting on "QUATERNARY OCEAN & LAND INTERACTION: CLIMATIC,  
TECTONIC & ANTHROPOGENIC INFLUENCE"**

For more information refer to: <http://aoceano.org.br/igcp/index.php>

The first two conference days will be paper sessions (talks and posters) and the last 4 days will be a field trip along the Santa Catarina and Paraná coasts. The Hotel will be: RECANTO DAS ÁGUAS (there will be special conference rates) (<http://www.hotelrecantodasaguas.com.br/english/>) More information will be available in February on the website, or contact **Rodolfo José Angulo** (Universidade Federal do Paraná) [angulo@ufpr.br](mailto:angulo@ufpr.br), or **Antonio Henrique da Fontoura Klein** (Universidade do Vale do Itajaí) [klein@univali.br](mailto:klein@univali.br)

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**SEPTEMBER 18-20, 2006, GDANSK, POLAND  
Littoral 2006, 8<sup>th</sup> International Conference "Coastal Innovation and Initiatives"**

Authors are kindly invited to submit abstracts focusing on Knowledge, Entrepreneurships, Innovations, Techniques and Instruments, Theory and Practice or Case Studies, Conference details are available at: <http://www.littoral2006.gda.pl/>

Sessions will cover the following major topics:

- Socio-economic Value of Coastal Areas - Regional Coastal Economies
- Coastal Information, Communications, and Data Network
- Coastal and Marine Tourism and Recreation
- Trends and Processes in Coastal Environment
- Exploration and Exploitation of Live Marine Resources
- Coastal Protection, Dynamics and Geomorphology
- Protection of Marine and Coastal Habitats
- Conservation of Coastal Culture Heritage and Landscape Values
- Integrated Coastal Zone Management and Maritime Administration
- Coastal Policy, Planning and Land Use Conflicts
- Changing Nature of Coastal Communities
- Coastal Research and Development Programme and Implementation - Connecting Science and Policy
- Education and Training
- Urban Waterfront Development
- Ports and Harbours
- Coastal Energy

Both abstracts and full papers must be submitted electronically. The electronic submission of abstracts (no more than 150 words) via [www.littoral2006.gda.pl](http://www.littoral2006.gda.pl) will be available from 01.01.2006 until 15.02.2006.

All the papers will be reviewed and accepted papers will appear in the conference proceedings. The accepted papers will be presented during regular or poster sessions.

Littoral 2006 will also include a small number of one-day or half-day, peer-reviewed **workshops**. The aim of the workshops is to bring together professionals from academia and industry to exchange ideas, experiences and identify obstacles and propose solutions in littoral domains.

**Abstract submission due date is 15th February 2006, electronic submission form is on the website**

Abstract acceptance notification will be 30th March 2006

Full paper submission will be 31 May, 2006

Contact the local organizer at: [littoral@zie.pg.gda.pl](mailto:littoral@zie.pg.gda.pl)

For more information about the conference, see <http://www.littoral2006.gda.pl/>

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**SEPTEMBER 6-10, 2006, GOIANIA-GO, BRAZIL**

**VI Brazilian Symposium on Geomorphology / IAG - Regional Conference on Geomorphology**

Tropical and subtropical Geomorphology: process, methods and techniques

[iag\\_ugb@yahoo.com.br](mailto:iag_ugb@yahoo.com.br)

From **Thiago Morato**, [tmorato@infonet.com.br](mailto:tmorato@infonet.com.br)

Main objectives: Promote the discussion of geomorphologic scientific results, models, methods and techniques related to humid and wet-dry tropical as well as sub-tropical environments.

Sessions organized by IAG and UGB (Brazilian Geomorphology Union) working groups in other Geomorphologic topics are welcome.

Preliminary Thematic Sessions:

- 1- Geomorphology, weathering and soil generation
- 2- Fluvial Geomorphology and Paleohydrology
- 3- Slope generation, dynamic and evolution
- 4- Accelerated geomorphic processes: erosion, siltation, desertification and others
- 5- Karst Geomorphology
- 6- Coastal Geomorphology
- 7- Aeolian activity in the tropics
- 8- Structural Geomorphology and Neotectonic
- 9- Geomorphology and Planning and Urban Geomorphology
- 10- Geotechnologies and Geomorphologic Cartography
- 11- Teaching geomorphology

For further information contact: [iag\\_ugb@yahoo.com.br](mailto:iag_ugb@yahoo.com.br)

or **Dr. Selma de Castro** ([selma@iesa.ufg.br](mailto:selma@iesa.ufg.br)) and/or **Dr. Edgardo Latrubesse**

([latrubes@terra.com.br](mailto:latrubes@terra.com.br)) Universidade Federal de Goiás-IESA-Campus II-74001-970-Goiânia-GO-Brazil Tel/fax-(00-55) 62-35211095

**The registration form is on the Conference website [iag\\_ugb@yahoo.com.br](mailto:iag_ugb@yahoo.com.br)**

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## REPORTS ON MEETINGS

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**24 -28 August 2005 Fortaleza, Ceará, Brazil**

**FIRST BRAZILIAN SYMPOSIUM ON DUNES SYSTEMS AND INTERNATIONAL SYMPOSIUM ON COASTAL DUNES: Management and Sustainable Development**

The first Brazilian international symposium on dunes systems on coastal dunes was held in Fortaleza, CE, Brazil, 24 - 28 August 2005. Luis Parente Maia and coworkers in the Institute of Marine Sciences at Federal University of Ceará (LABOMAR/UFC), organized the meeting. With nearly one hundred delegates in attendance, this was the largest single grouping of coastal dune research in Brazil. The main

theme of the meeting focused on coastal sand dunes management and sustainable development.

The format of the meeting included oral presentations, poster sessions, and three days field excursion along the coastal in Ceará (Jericoacoara Dunes Field). All of the professional talks were presented in single, plenary sessions with no concurrent sessions. This arrangement was effective because it provided participants with different professional training to appreciate new or different points of view. Half of talks were delivered in English and half in Portuguese, both with simultaneous translation. The talks were of high quality and accompanied by ample time for questions and discussion.

This international meeting was convened at the Jericoacoara Dunes Field in an effort to draw attention to the need for research focused on this important ecosystem and to acquire an appreciation of efforts in other Brazilian states and countries to apply best management practices in coastal dunes systems.

A coastal research (Dune Systems) award was presented to Professor Joao José Bigarella, for recognition of 60 years of leadership and dedication to the study of sand dune morphology, génesis, and classification in Brazil. This was presented by Prof. Jader Onofre de Moraes, one of first Brazilian Marine Geology researchers

The symposium highlighted 13 presentations about coastal dunes-related topics: Prof. Dr. João José Bigarella (Quaternary Coastal Dune Systems), Prof. Dr. José Maria Landim Dominguez (Coastal Dunes of Brazil), Prof. Dr. Patrick Hesp (Models of Transgressive Coastal Dune Systems), Prof. Dr. Sérgio Dillenburg (Holocene Evolution of Coastal Dune Barriers in Southern Brazil), Prof. Dr. João Wagner Alencar Castro (Coastal Dunes of Ceará State, Brazil), Prof. Dr. Hans Herman (Modelling Coastal Dune Dynamics), Prof. Dr. Ian Walker (Modelling Flow Over Transverse Dunes); Prof. Dr. Lauro Júlio Calliari (Variability of Beach and Dune Systems of Rio Grande do Sul State Southern Brazil), Prof. Dr. Dieter Muehe (Erosion Retreat and Sediment Budge of Foredune Field near Cabo Frio, Brazil), Prof. Dr. Douglas Sherman (Wind and Sand), Prof. Dr. Hezi Yizhag (Mathematic Modeling of Aeolian Megaripples), Prof. Dr. Luís Parente Maia (Planning Management: the Example of Coastal Plain of Northeast of Brazil) and Prof. Dr. Haim Tsoar (Dunes and Wind Dynamics).

Several professional papers were submitted for consideration by a peer review panel with a view toward acceptance and publication in a Thematic Session and in a special issue of the Journal of Coastal Research (JCR) entitled Brazilian Coastal Dunes: from north to south, to published by CERF and LABOMAR-UFC/ CTTMAR-UNIVALI in 2006.

The second Brazilian symposium on dunes systems / international symposium on coastal dunes will be held on southern Brazil, 2007. Reported by **Antonio Henrique da Fontoura Klein** (member of the CCS Steering Committee).

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## **CoastsGIS, July 2005, Aberdeen, Scotland, UK**

**David Green** (member of the CCS Steering Committee) reports to us about a very exciting development growing out of this meeting. It is referred to as Oceans 21, and the leadership consists of **David R. Green**, **Roger Longhorn**, **Emanuele Roccatagliata**, and **Darius Bartlett**.

***Oceans 21 - GIS for Coastal Management and Coastal Education*** is a co-operative programme of the Intergovernmental Oceanographic Commission (IOC) and the International Geographical Union (IGU). It currently comprises a partnership of the following international organizations:

- \* International Geographical Union (IGU) - Commission on Coastal Systems (CCS)
- \* UNESCO's Intergovernmental Oceanographic Commission (IOC)
- \* The CoastGIS International Executive Committee
- \* ICCOPS (Landscape, Natural and Cultural Heritage Observatory)
- \* Geographical Information Systems International Group (GISIG)
- \* The Gerard J. Mangone Center for Marine Policy

- \* EUCC - The Coastal Union
- \* The International Cartographic Association (ICA) - Commission on Marine Cartography
- \* US National Oceanic and Atmospheric Administration (NOAA) - Coastal Services Center

The objective of this new initiative is to develop useful concepts, methods, and techniques in integrated coastal management (ICM) for coastal managers and planners. Special consideration is being given to the developing coastal environment and education and training with a major focus on the potential role of Geographic Information (GI) and Geographical Information System (GIS) technology in this capacity.

A number of subject areas are considered:

- Trans-disciplinary scientific research - to develop a better understanding and implementation of coastal management practices
- Development and presentation of significant interdisciplinary case studies
- Awareness and dissemination activities
- Education and training with special consideration for the needs of developing nations

The following Themes have also been identified:

- Theme I - Accumulating coastal knowledge for sustainable development: concepts and methods
- Theme II - GIS Implementation of Coastal Information Systems for ICM
- Theme III - Coastal Urbanisation and Coastal Landscape
- Theme IV - Science and Technology of Coastal Information Systems for ICM
- Theme V - Training, Education and Awareness on GIS-assisted ICM
- Theme VI - Extending National, Regional and Global SDIs from Onshore to Offshore

And a number of alliances have been created:

- ICCOPS, in collaboration with GISIG, hosts the technical Secretariat for *Oceans 21*
- Coastal Oceans Observation Panel (COOP) of partner organisation IOC's GOOS - Global Ocean Observing System
- LOICZ - Land-Ocean Interaction in the Coastal Zone programme of the IGBP - International Geosphere Biosphere Programme, which has just completed its first decade of work and launched a new science plan (IGBP 2004)
- The coastal zone management projects in the EU Programmes, as well as the major initiatives conducted by the European Joint Research Centre (JRC), will be monitored

Ultimately, outputs and products from the initiative will include:

- Oceans 21 programme website (see below)
- A portal to coastal/marine research and management oriented websites and information services having a spatial information or GIS component
- Open Source demonstration software and examples concerned with coastal GIS to solve coastal management problems
- Open Source GIS-based educational and training course material
- Scientific events to discuss the subject areas and issues covered by the programme
- Special issues of international journals and/or special issues in on-line web-based magazines
- Newsletter published on the Oceans 21 website

Oceans 21 was officially launched at a workshop as part of the CoastGIS 2005 Symposium and Exhibition in Aberdeen at the AECC in July 2005. **David Green** (University of Aberdeen) briefly introduced the initiative to the audience. **Emanuele Roccatagliata** (GISIG) provided some background on the initiative in relation to the role of ICCOPS and GISIG with emphasis being placed on some of the current related GISIG activities such as ECO-IMAGINE ([www.gisig.it/eco-imagine/](http://www.gisig.it/eco-imagine/)). **Roger Longhorn** proceeded to examine Oceans 21 in relation to other international initiatives in order to provide a better feel for how this



new initiative would complement and enhance other similar and related activities in the area of coastal management. Delegates to this international symposium were provided with the Oceans 21 Science Plan for 2005-2008 outlining the Oceans 21 initiative (a copy of this Science Plan can be found on the Oceans 21 website): [www.iccops.it/oceans21](http://www.iccops.it/oceans21)

In order to progress the work proposed in the Science Plan it was also decided to focus on a specific geographical study area. To this end, Oceans 21 will concentrate its attention on the Mediterranean region, an area with diverse natural and cultural heritage issues often in conflict with economic development which also presents a mix of differently developed countries and comprises a wide variety of cultures, landscapes, religions, and governance practices. The final speaker in the Oceans 21 initiative workshop, Professor **Alastair Dawson** (University of Aberdeen), was therefore invited to present an historical overview of tsunami events in the Mediterranean. A copy of this presentation can be found on the Oceans 21 website.

### **Join us in Oceans 21**

With the launch of the Oceans 21, work on this exciting new initiative is now well underway. A number of the GISIG ECO-IMAGINE conference and training events, for example, have already provided the means to cover some of the proposed themes outlined above and to raise awareness, the profile, and interest in Oceans 21.

However, it is clear that in order to carry out much of the proposed work plan of Oceans 21 - which is quite ambitious - will be highly dependent upon the availability of funding. To this end **David R. Green** is currently working with **Alastair Dawson** in Aberdeen to develop a proposal to secure EU funding for some of the proposed Oceans 21 work. With current interest in Tsunami becoming worldwide a proposal is now being drafted to secure funding for Oceans 21 in 2006 to allow us to move forward and to begin to achieve some of the objectives we have set ourselves for Oceans 21. Other partners and alliances are naturally very welcome and you are cordially invited and actively encouraged to join the Oceans 21 initiative.

If you are interested in joining Oceans 21 or becoming a partner in a funding application, then please contact either **David R. Green** or ICCOPS/GISIG at the contact details given below.

In the meantime, further information on the Oceans 21 initiative can be obtained from David R. Green (UK Co-coordinator) by contacting him at:

Centre for Marine and Coastal Zone Management (CMCZM)  
Department of Geography and Environment  
University of Aberdeen, Aberdeen, AB24 3UF, Scotland, UK

Tel. +44 01224 272324; Fax. +44 01224 272331; Email. [d.r.green@abdn.ac.uk](mailto:d.r.green@abdn.ac.uk); Web. [www.abdn.ac.uk/cmczm](http://www.abdn.ac.uk/cmczm)

Or from the Oceans 21 website: [www.iccops.it/oceans21](http://www.iccops.it/oceans21)

### **OTHER MEETINGS**

**APRIL 2-7, 2006, EGU ASSEMBLY, VIENNA, AUSTRIA**  
**Aeolian Geomorphology**



The General Assembly of the European Geosciences Union brings together geoscientists from all over Europe and the rest of the world into one meeting covering all disciplines of the Earth, Planetary and Space Sciences, and is also one of the single largest scientific meetings in Europe.

Abstract submissions are invited for session GM17: Advances in Aeolian Geomorphology, convened by **Andreas Baas** (King's College London), **Philippe Claudin** (École Supérieure de Physique et de Chimie Industrielles), and **Giles Wiggs** (University of Oxford).

"The study of sediment transport by wind and the subsequent evolution of surface features and landforms is a dynamic and vibrant field of geomorphological research, with many innovative and interdisciplinary lines of inquiry. Novel instrumentation and new experimental techniques yield unprecedented insights into the physical processes of aeolian sediment transport - be it sand or dust - while numerical modelling, field monitoring, and remote sensing allow us to investigate the evolution and behaviour of ripples and dune landscapes over long time scales. Aeolian geomorphology is conducted in many different science disciplines and this session aims to bring together research results from a variety of approaches and backgrounds to improve our understanding of process and form in aeolian Earth surface systems. Innovative contributions are sought on topics from across the whole spectrum of aeolian geomorphology over the full range of spatial and temporal scales of investigation."

abstracts can be submitted online only at:

[http://www.cosis.net/members/meetings/programme/view.php?m\\_id=29&p\\_id=201](http://www.cosis.net/members/meetings/programme/view.php?m_id=29&p_id=201)

under session GM17 in the Geomorphology Division.

This will require a COSIS registration.

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**MAY 2-4,2006, FACULTY OF ENGINEERING. UNIVERSITY OF PORTO, PORTUGAL  
COASTLAB06, 1<sup>ST</sup> INTERNATIONAL CONFERENCE ON THE APPLICATION OF  
PHYSICAL MODELING TO PORT AND COASTAL PROTECTION**

Once again we have had an excellent response to the conference announcement, with over 80 abstracts already submitted for consideration. Also, please note that there are two new conference themes:

**Sediment Transport and Modeling of Oil Spills and Barriers.**

Registration forms and fees, as well as other relevant information on the conference are available on the conference web site <http://www.fe.up.pt/~lpneves/coastlab06>.

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**MAY 13-18, 2006, ST. PETERSBURG BEACH, FLORIDA  
THE COASTAL SOCIETY, TCS 20, CHARTING A NEW COURSE: SHAPING NEW  
SOLUTIONS**

The Coastal Society's 20th International Biennial Conference will present a solution-based conference experience: learning and sharing information, success stories and challenges, and exploring the interface among scientists, policy-makers, coastal managers and the public. <http://www.thecoastalsociety.org/conference/tcs20/>

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**MAY 22-25, 2006, MELBOURNE, AUSTRALIA  
COAST TO COAST 2006: Australia's National Coastal Conference,**

It will focus debate across the full range of coastal and marine issues being considered at national, state, regional and local levels. The need for sustainable coastal and marine use, planning and management is increasingly hard to ignore – in and around Australia we are seeing more natural disasters, higher demand to live on the coast, more certainty in climate change research, continuous battles with weeds, new marine pests, fish populations dwindling around the world, the community and media are becoming more outspoken about development on the coast...

details at: <http://www.iceaustralia.com/coasttocoast2006/>

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## **JULY 24-26, 2006, GUELPH, CANADA**

### **The 6th International Conference on Aeolian Research (ICAR VI)**

The International Conferences on Aeolian Research bring together researchers interested in the many diverse areas of inquiry focusing on the entrainment, transport and deposition of sediment by wind including the wide ranging applied aspects of eolian research. Tentative sessions for the meeting include:

1. Mechanics of Eolian Processes
2. Dust Entrainment, Transport and Deposition
3. Dunes and Dune Systems
4. Coastal Eolian Processes
5. Paleo Aeolian Systems
6. Anthropogenic Interactions With Eolian Systems
7. Modeling Dust Transport Systems
8. Modeling Sand Transport Systems

The ICAR VI Organizing Committee hopes to attract individuals and papers from the many different disciplines and research areas focusing on eolian processes. In particular we would like to attract individuals working on coastal eolian processes, global dust transport and modeling and anthropogenic effects on eolian entrainment and transport. It is also our intent to highlight recent research, particularly by younger investigators and graduate students.

The conference will consist of three 3½ days of technical sessions with both oral and poster presentations. Posters will be an important and integral part of the conference and should be viewed as being of equal value to oral presentations. The conference proceedings will be published in special issues of at least two international journals. To date, **Dr. Bernie Bauer** (University of British Columbia, Okanagan) has negotiated the publication of a special, double volume issue of Geomorphology. Negotiations with another leading Journal are also in progress.

In addition to the technical sessions a full day field trip will take place on the Wednesday looking at the coastal dunes of the Lake Ontario, one of Canada's Great Lakes. The field trip will be followed by a barbeque. There will also be a banquet held on the Thursday night. Cost of registration for the conference will be \$350 US Dollars with a reduced Graduate Student registration of \$175 USD. The registration fee covers the conference materials, field trip, barbeque and the banquet. Accommodation will be in addition to the registration (University residence and local hotels will be arranged).

To be placed on the mailing list and to receive further information would you please complete the Request for Registration Information Form on the ICAR VI Web Site through the following link:

<http://www.uoguelph.ca/icarvi/index.cfm>

Formal registration for the conference will begin in October 2005.

For further information please contact:

**Dr. W.G. Nickling**

Wind Erosion Laboratory

Department of Geography

University of Guelph,

Guelph, ON

Canada, N1G 2W1

mailto: [nickling@uoguelph.ca](mailto:nickling@uoguelph.ca)

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**AUGUST 12-18, 2006, TUKTOYAKTUK, NORTHWEST TERRITORIES, CANADA  
Coastal Zone Canada 2006 and Youth Forum: Arctic Change and Coastal Communities**

This is the seventh conference in a biennial series, sponsored by the Canada Coastal Zone Association. This is the first of the series to be located on the Arctic coast. The Conference will raise awareness about the unique challenges faced by residents of the Arctic coastal zone in the face of rapid changes occurring in Arctic marine ecosystems. Contributions from coastal areas around the world are encouraged, recognizing that many of the drivers of coastal change, and the adaptation of people to them, are common to many parts of the world. For information, <http://www.czc06.ca/e/home.html>

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**OCTOBER 25 – 27, 2006 - GOZO, MALTA  
2nd International Conference on the Management of Coastal Recreational Resources  
*Beaches, Yachting and Coastal Ecotourism (MCRR2)***

This is the second Conference in ICoD's biannual series on the *Management of Coastal Recreational Resources*. As with the first Conference held in Malta in 2004, this year's event will focus on aspects of coastal management related to the recreational amenities represented by beaches, yacht marinas, and ecotourism.

This year's conference will be held at the 5 star Hotel Ta' Cenc on Malta's sister Island of Gozo, and aims to bring together academic researchers as well as practitioners whose work involves aspects of both research into integrated coastal area management practices and the development and management of coast-related recreational amenities. Look for the **MCRR2 dedicated webpage** on <http://mcrr2.icod.org.mt>

Dr Anton Micallef  
Director, Euro-Mediterranean Centre on Insular Coastal Dynamics (ICoD)

**Local Secretariat**

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**DECEMBER 9-13, 2006, NEW ORLEANS, LOUISIANA, HILTON RIVERSIDE HOTEL  
Restore America's Estuaries'  
3rd National Conference and Expo on Coastal and Estuarine Habitat Restoration  
"Forging the National Imperative"**

Restore America's Estuaries is pleased to announce the Call for Presentations and Posters for "Forging the National Imperative," Presentation submissions are due **March 31, 2006** and Poster submissions are due **April 30, 2006**.

For more information or to download the application, visit  
<http://www.estuaries.org/conference>.

Following the devastating hurricane season of 2005, Restore America's Estuaries is more committed than ever to holding the Conference in New Orleans as scheduled. The Conference will bring timely national attention to the challenges and opportunities to comprehensive coastal ecosystem restoration throughout the U.S. and especially in Coastal Louisiana and the northern Gulf Coast. Habitat restoration at all scales is essential to the very fabric of our lives - the social, economic and ecological well being of humans in the coastal landscape. Through field sessions, participants will see first-hand how the city, the parishes and coastal Louisiana are being rebuilt and restored. We will work to ensure that the Conference supports the rebuilding process.

The National Program Committee invites you to submit a proposal to present at the 3rd National Conference. There are two opportunities to present:

\*Contributed Sessions - 15-20 minute presentations integrated into a 90 minute session with time for discussion. Please propose one presentation, and the National Program Committee will group presentations into cohesive sessions. If you would like to propose a full 90-minute session with multiple speakers, please see the Call for Dedicated Sessions (<http://www.estuaries.org/conference>).

\*Poster Sessions - Posters will be displayed throughout the Conference, and one or two special 90-minute poster sessions will allow Poster Presenters to discuss their work with Conference participants. A Student Poster Contest will provide cash awards to the best student posters. For more contest information, please visit the Conference website.

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## Grist and Grains

**The Commission on Coastal Systems** is pleased to announce the publication of *Zeitschrift für Geomorphologie Supplementband 141, Coasts Under Stress II*. This is a collection of coastal papers from the combined IGU/CCS and Coastal and Marine Specialty Group of the Association of American Geographers meeting in New Orleans in 2003. The issue is edited by **Norb Psuty, Doug Sherman**, and **Klaus Meyer-Arendt** and is available from Gebrüder Borntraeger, Johannesstrasse 3A, Stuttgart, Germany. Further information is at: <http://www.schweizerbart.de>

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### **Subject: CCS Machair Study Group**

To Members of the Machair Study Group - this is to let you know that there is a Machair newsletter under the editorship of **Stewart Angus**. If anyone has a short note or point of information about Machair that they would like included, please send it to **Stewart Angus** or **Bill Ritchie (or to Elaine Ball)**. Some exciting news for the Study Group. Many of the presentations on Machairs at the Littoral 2004 meeting in Aberdeen have been assembled to compose *Machair 4*. It is available on CD to members of the Study Group. Further, through the cooperation of the Natural Environment Research Council, **Sand Dune Machair 1, 2, and 3** will be issued freely in electronic format to members of the Machair Study Group. Communicate your interest to **Elaine Ball**. Membership in the Study Group is free.

Elaine Ball, Assistant to Lynda Kingham, SOTEAG  
Tel 01224 272884  
Fax 01224 273405  
E-mail [elaine.ball@abdn.ac.uk](mailto:elaine.ball@abdn.ac.uk)

**In case you did not know, Machair** is a Gaelic term for old dune systems on the Atlantic margins of Scotland and Ireland. Normally calcareous, they have rich flora and fauna of European conservational status. Having been farmed and grazed since pre-historic times, the machair landscape also has strong cultural attributes.

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**Subject: CCS Rocky Coasts Study Group**

**Wayne Stephenson** and **Larissa Naylor** are heading up a combined effort of the CCS and the International Association of Geomorphologists on the topic of Rocky Coasts. The International Association of Geomorphologists has approved the establishment of a working group on rock coast geomorphology. This decision was taken by the Executive at the Sixth International Conference on Geomorphology in Zaragoza in September 2005. As the proponents we would now like to invite you to register your interest in participating in this combined IAG/CCS working group.

Our initial thoughts on what the group should seek to achieve in the next four years are as follows:  
Establish an e-mail discussion list.

Establish a web site linked from the IAG/AIG web site.

Organize a special session at the IGU Regional Meeting in Brisbane on rocky coasts.

Organise a special session at an appropriate conference in 2007 with a view to publishing a thematic journal issue.

At the 7th IAG/AIG (Melbourne 2009) have a working group session from which an edited volume is published.

Prior or after the 7th IAG/AIG (Melbourne 2009) have a rock coast field excursion.

In addition to these outcomes we would also hope the group could:

Develop international collaborative research programs and/or highlight the importance of rocky coasts in newly funded research networks (e.g. [www.encora.org](http://www.encora.org))

Improve our understanding of the evolution of rock coasts through international collaboration.

Improve understanding of the process/form relationships of rock coasts through international collaboration.

Increase awareness of the significance of rock coasts both geomorphically and as a coastal type that faces significant coastal management issues through publication of collaborative research.

While these are initial thoughts we are open to further suggestions and ideas as to what a group such as this should aim to achieve. If you would like to participate please respond to **Wayne Stephenson** ([wjs@unimelb.edu.au](mailto:wjs@unimelb.edu.au)) indicating your interest and what sorts of activities you would be particularly interested in getting involved in and/or helping facilitate. Wayne will add you to an e-mail distribution list. Please pass on this message to others who you think may be interested in the working group.

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**Paul A. Gares** announces the availability of a graduate assistantship in a research project in coastal geomorphology at East Carolina University. The project consists of using several LIDAR data sets to monitor barrier island change over a 10-year period on the Outer Banks of North Carolina. He is seeking a student wishing to obtain an MA degree in geography who is also interested in barrier island change. He envisions the work done on this project would be used as the student's master's thesis. Some experience/knowledge of coastal processes would be desirable but not absolutely necessary. He would like the student to have undergraduate coursework in geomorphology. Some experience in GIS would also be very useful. LIDAR data sets are very large and need to be manipulated in GIS. The Geography Department at ECU offers numerous courses designed to develop competence in GIScience and has both teaching and research GIS labs. The assistantship provides both tuition remission and a stipend. For information please contact Paul Gares ([Garesp@mail.ecu.edu](mailto:Garesp@mail.ecu.edu)). Please visit the Geography Department web site ([www.ecu.edu/geog/](http://www.ecu.edu/geog/)) for general information about the graduate program and about East Carolina University.

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**Prof. Waclaw Florek** (Poland) announces the publication of the papers from the Sixth Conference on the Geology and Geomorphology of the Polish Baltic Coast. It is a handsome volume, 349 pages, including sections on 1) Offshore Sedimentology, Dynamics, and Stratigraphy; 2) Inshore Geology and Dynamics; 3) Technical Problems in the Functioning of the Coastal Zone; and 4) Lacustrine and Coastal Plain Geology. Although largely written in Polish, each paper has an English summary, and all of the figures are either in English or have English titles. The volume is very readable. Prof. Florek is the editor of this this volume. If you are interested in a copy, please contact him; [florekw@pap.edu.pl](mailto:florekw@pap.edu.pl).  
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### **IGU Commission on Marine Geography SPECIAL OFFER**

**The oceans: key issues in marine affairs** edited by Hance D Smith

Published by Kluwer International in November 2004.

GeoJournal Library Series No. 78

pp. xv+321. Hardback. ISBN 1-4020-2746-X

By special arrangement with the publishers a limited number of copies have been made available to members of the IGU Commission on Marine Geography at a heavily discounted price as follows:

<u>Published Price</u>	<u>IGU-CMG Price</u>
<b><i>Euro 125.00</i></b>	<b><i>Euro 34.00</i></b>
US\$ 159.00	US\$ 44.00
GBP 87.00	GBP 24.00

You may order a copy by writing to:

Dr H D Smith, Cardiff University, School of Earth Ocean and Planetary Sciences,  
Main Building, Park Place, CARDIFF. CF10 3YE, United Kingdom.

Enclosing a cheque to cover the cost, plus postage and packing, as follows:

*UK* - *GBP 27.80*  
**Europe including Turkey – Euro 41.50 or US\$53.50**  
**Rest of the World - US\$60.00**

**Cheques should be made payable to: ‘IGU Commission on Marine Geography’**

A copy will be mailed to you by return mail

CONTENTS AND CONTRIBUTORS

Acknowledgements, Affiliations, Introduction

Chapter 1: The geography of the sea – H D Smith

Chapter 2: The law of the sea at the millennium – E D Brown

Chapter 3: Maritime boundaries – G H Blake

Chapter 4: Geography and geostrategy of the oceans – A Vigarie

Chapter 5: Maritime transport – J Marcadon

Chapter 6: Offshore oil and gas at the millennium – H J Pickering

Chapter 7: Fisheries – J L Suarez, G Gonzalez, S Feria

Chapter 8: The use of the sea for recreation and tourism – M B Orams

Chapter 9: Managing marine waste disposal – R C Ballinger

Chapter 10: Marine conservation and resource management – S Pullen

Chapter 11: The North Atlantic – Lewis M Alexander



Chapter 12: The Mediterranean and Black Seas – A Vallega  
Chapter 13: Multilateral management of Northeast Asian seas – Mark J Valencia  
Chapter 14: The Arctic Ocean – Y Mikhaylichenko  
Chapter 15: The Southern Ocean – Donald R Rothwell  
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**Any queries: e-mail to: [smithhd@cf.ac.uk](mailto:smithhd@cf.ac.uk)**  
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**MICHAEL BUTLER (CANADA)** shares a wide variety of coastal information with us. His Newsletter is the source of the following information, it is available at: <http://www.dal.ca/aczisc/new>

**- COORDINATING NEARSHORE MARINE MONITORING WORKSHOP**

The Workshop is scheduled for 7-9 February 2006 at the Bedford Institute of Oceanography in Dartmouth, Nova Scotia. It will focus on sharing approaches to monitoring of nearshore marine/estuarine environments from the various coastal zones of Canada; identifying needs for nearshore marine/monitoring data from various perspectives; and discussing how nearshore marine/estuarine monitoring in Canada could be tailored to improve coordination within and among coastal areas, could better track the key issues facing the nearshore, and feed the information needs of decision-makers. For information, access <http://www.eman-rese.ca/eman/reports/meetings/marine2006/intro.html>.

**- COASTAL AREA MANAGEMENT IN NOVA SCOTIA: BUILDING AWARENESS AT THE MUNICIPAL LEVEL**

This Rural Communities Impacting Policy (RCIP) research project explored the experiences of coastal management efforts across the south shore of Nova Scotia and sought to increase awareness of the role that municipalities can play in the sustainable use and development of coastal areas. The report is available at <http://www.ruralnovascotia.ca/documents/coastal/coastal%20final%20report.pdf>.

**- IMPROVING KNOWLEDGE OF MARINE ECOSYSTEMS AND MIGRATORY FISH STOCKS**

The Minister of Fisheries and Oceans Canada has announced \$7.6 million in funding over three years to support scientific initiatives in Newfoundland and Labrador aimed at increasing knowledge of marine ecosystems, sensitive marine areas and highly migratory marine species. The Region has identified 14 specific research projects that will be conducted over the next three years. For information, access [http://www.nfl.dfo-mpo.gc.ca/publications/news\\_presse\\_NL\\_TNL\\_0541.asp?Lang=English](http://www.nfl.dfo-mpo.gc.ca/publications/news_presse_NL_TNL_0541.asp?Lang=English).

**- CANADA HAS WORLD'S THIRD LARGEST ECOLOGICAL FOOTPRINT**

"Ecological Footprints of Canadian Municipalities and Regions", a report prepared for the Federation of Canadian Municipalities (FCM), states that Canada is the country with the third largest ecological footprint. An ecological footprint measures the impact each person or group makes on the environment. It is the biologically productive area needed to produce all the products a person or group consumes and to absorb all their waste. The report is available at <http://www.fcm.ca/english/media/press/sept292004.html>.

**- ONLINE ICZM COURSE**

The UNESCO-IHE Institute for Water Education online Integrated Coastal Zone Management course is scheduled for 6 March to 16 June 2006. The course will feature an Introduction to the ICZM process; the ICZM framework; Tools and techniques supporting the ICZM process; Policy, planning and governance in ICZM; Coastal ecosystems; Indicators for assessing ICZM projects; and ICZM case studies. For information, access <http://www.unesco-ihe.org/education/ilearning.htm>.

**- UNITED NATIONS CLIMATE CHANGE CONFERENCE**



Canada held the first Meeting of the Parties to the Kyoto Protocol in Montréal in conjunction with the 11th session of the Conference of the Parties to the Climate Change Convention. The Conference took place from 28 November to 9 December 2005. The Climate Change Conference closed with the adoption of more than forty decisions that will strengthen global efforts to fight climate change. For information, including the decisions, access [http://unfccc.int/meetings/cop\\_11/items/3394.php](http://unfccc.int/meetings/cop_11/items/3394.php).

#### **- RESPONDING TO CLIMATE CHANGE IN THE COASTAL ZONE**

The Tyndall Centre research project "Responding to Climate Change: Inclusive and Integrated Coastal Analysis" examines the challenges for coastal decision-making in the UK in the context of potential climate change and sea level rise. The key conclusion from the project is that strategic action on climate change adaptation in the coastal zone is likely to require new approaches to the decision-making process. For information and to download the project report, access

[http://www.tyndall.ac.uk/research/theme4/project\\_overviews/t2\\_42.shtml](http://www.tyndall.ac.uk/research/theme4/project_overviews/t2_42.shtml).

#### **- A GUIDE TO LAND USE PLANNING IN COASTAL AREAS OF THE MARITIME PROVINCES**

The Guide is divided into a series of overviews and fact sheets that cover key land-use planning and related topics, including coastal environments and maritime ecosystems, legislative frameworks for planning, and engineering aspects of coastal structures. It also presents desirable approaches and best management practices. The Guide is available online at

<http://www.mar.dfo-mpo.gc.ca/oceans/e/ocmd/final%20version%20-%20a%20guide%20to%20land%20use%20planning.pdf>.

#### **- BEST MANAGEMENT PRACTICES FOR MARINAS AND LESSONS LEARNED**

The document entitled "Best Management Practices for Marinas", suggests methods, tools and techniques that recreational boating facilities can use to abate non-point sources of pollution. The final design of the BMPs is based on information and experience gained from a demonstration project at model marinas in Rhode Island, USA. The website also includes "Lessons Learned". It is available at

<http://seagrant.gso.uri.edu/BMP/BMP.html>,

#### **- TIDAL BARRIERS IN THE BAY OF FUNDY**

The Coastal Issues Committee of the Nova Scotia Ecology Action Centre has been conducting tidal barrier audits around the Bay of Fundy since 2001. As part of this project, obstructions to tidal waters and the effects on salt marshes and fish habitat were assessed and recommendations for restoration were made. The results of these audits are now available on CD as a series of reports, along with other relevant EAC publications. For information or to order a CD of these reports, email [tidalbarriers@ecologyaction.ca](mailto:tidalbarriers@ecologyaction.ca).

#### **- HURRICANE KATRINA IMPACT STUDIES**

Hurricane Katrina made landfall as a category 4 storm in Plaquemines Parish, Louisiana on 29 August 2005. The US Geological Survey (USGS), NASA, the US Army Corps of Engineers, and the University of New Orleans are cooperating in a research project investigating coastal change that occurred as a result of Hurricane Katrina. For information, access

<http://coastal.er.usgs.gov/hurricanes/katrina/>.

-To visualize relationships, model the movement of contaminants, and identify sources of human exposure, the National Institutes of Health is developing an interactive Geographic Information System (GIS). This GIS will assemble maps based on geographic, demographic, hydrographic, infrastructure and industrial/agricultural data from publicly accessible sources. For information, access

<http://www-apps.niehs.nih.gov/katrina/>.

#### **- GLOBAL WARMING, CYCLONES AND HURRICANES**

To date the detection of trends in hurricane activity has focussed primarily on their frequency. In his paper entitled "Increasing Destructiveness of Tropical Cyclones Over the Past 30 Years", published in the journal Nature, Kerry Emanuel reports that the potential destructiveness of hurricanes is highly correlated with tropical sea surface temperature and global warming. He adds that future warming may lead to an upward trend in tropical cyclone destructive potential and, taking into account an increasing coastal population, a substantial increase in hurricane-related losses in the twenty-first century. The paper is available at <http://texmex.mit.edu/pub/emanuel/PAPERS/NATURE03906.pdf>.

#### **- PROTECTING AND RESTORING WETLANDS AND RIPARIAN AREAS**

The US Environmental Protection Agency (EPA) has published a technical guidance and reference document for use in the implementation of nonpoint source pollution management programs. The document contains information on the best available, economically achievable means of reducing nonpoint source pollution through the protection and restoration of wetlands and riparian areas, as well as the implementation of vegetated treatment systems. The document is available at <http://epa.gov/owow/nps/wetmeasures/>.

#### **- MARINE MAPPING IN THE UK**

An article in the latest issue of the Tidings Online e-newsletter reports that detailed and comprehensive maps of the UK's territorial waters will soon be available. The new digital mapping will contain several layers: bathymetry and elevation; natural and physical environment; structures and obstructions; socio-economic and marine use; conservation and environment; and climate and oceanography. To read the article, access Tidings Online at <http://www.osil.co.uk/> and click on the title "A Sea Change in Marine Mapping".

#### **- RESPONDING TO INVASIVE TUNICATES IN ATLANTIC CANADA**

Funding has been announced to study tunicates or 'sea squirts', a type of aquatic invasive species which pose a serious threat to the marine ecosystem in Atlantic Canada as well as the shell fish harvesting and aquaculture industries. The study will conduct targeted research and provide strategic science advice to help reduce the introduction and spread of tunicates throughout Atlantic Canada through prevention, early detection and rapid response mechanisms. For information, including backgrounders, access [http://www.dfo-mpo.gc.ca/media/newsrel/2005/hq-ac83\\_e.htm](http://www.dfo-mpo.gc.ca/media/newsrel/2005/hq-ac83_e.htm).

#### **- WIND ENERGY IN PRINCE EDWARD ISLAND**

- The PEI Wind Atlas identifies areas on the Island that have the best potential for future wind energy development. It features maps at 30 m, 50 m, 80 m resolution. An interactive version has also been produced. The Atlas is available at <http://www.peiwindatlas.ca>.

- A new facility, the Canadian Wind Energy Institute, is scheduled to open at North Cape in 2006. The Institute will focus on testing and certification, research and innovation, industry training and public education, and technical consultation and assistance. For information, access <http://www.gov.pe.ca/news/getrelease.php3?number=4293>.

#### **- ACAP AND ECOLOGICAL MONITORING**

An EMAN funded survey of ecological monitoring activities within the Atlantic Coastal Action Program (ACAP) was conducted from February through April 2005. The survey compiled information on monitoring programs, data dissemination and management, as well as the effectiveness of data delivery and its impacts on policy and decision making. For information on ACAP and to download the survey report entitled "Ecological Monitoring and Reporting: A Survey of the Atlantic Coastal Action Program", access <http://atlantic-web1.ns.ec.gc.ca/community/acap>.

#### **- US NATIONAL COASTAL CONDITION REPORTS**

The National Coastal Condition Reports describe the ecological and environmental conditions in US coastal waters. They summarize the condition of ecological resources in the coastal waters and highlight several exemplary federal, state, tribal, and local programs that assess coastal ecological and water quality conditions. The 2005 National Coastal Condition Report rates the overall condition of US coastal waters as fair, varying from region to region. The reports are available at <http://www.epa.gov/owow/oceans/nccr/>.

#### **- COASTAL ACTIVITIES IN ATLANTIC CANADA**

A report of current coastal activities in Atlantic Canada is available at <http://aczisc.dal.ca/docs.htm#ACZISC>. The report is the Roundtable portion of ACZISC Meeting #46 held on 21-22 September 2005 in St. John's, Newfoundland.

#### **- ON THE COASTAL POPULATIONS OF CANADA AND THE WORLD**

A national assessment of the vulnerability of Canadians to coastal processes, hazards and changing climate requires, as one of many inputs, information on spatial patterns and temporal trends in the coastal population. A paper by Gavin Manson, Geological Survey of Canada states that, relative to the rest of the world, the percentage of Canadians living in the coastal zone is higher and growth is occurring at a higher rate, though mean population density is much lower. Compared to the global coastal population, the Canadian coastal population is very small, and the contribution of Canada's coastal population growth to that of the global coastal population is barely significant. The paper is available at <http://aczisc.dal.ca/coastalpop.pdf>.

#### **- RIGHTS-BASED FISHERIES MANAGEMENT SYSTEMS**

Rights-based fisheries management systems are examined in the paper entitled "Fencing the Fishery: A Primer on Ending the Race for Fish". Originally published in 2002 by the Property and Environment Research Centre in the US, the paper has been adapted for Canada and published by the Atlantic Institute for Market Studies. Conclusions for Canada include: stop issuing new commercial fishing licences and stop using the fishery as a make-work program. The Canadian version of the paper is available at <http://www.aims.ca/library/FencingTheFishery.pdf>. The US version is available at [http://www.perc.org/pdf/guide\\_fish.pdf](http://www.perc.org/pdf/guide_fish.pdf).

#### **- PROVINCIAL ENERGY PLAN FOR NEWFOUNDLAND AND LABRADOR**

The Minister of Natural Resources has released a discussion paper that will form the basis of a consultation process on the development of a comprehensive Energy Plan for the Province. Some of the issues raised include: alternative energy, including sources such as wind and solar power, tidal and wave energy, geothermal and various forms of biomass; energy conservation; environment and sustainable development; economic and regional development; and oil and gas exploration and development. To download the paper, access <http://www.releases.gov.nl.ca/releases/2005/nr/1110n08.htm>.

#### **- EU RELEASES STRATEGY TO PROTECT MARINE ENVIRONMENT**

The European Commission has released the "Thematic Strategy on the Protection and Conservation of the Marine Environment", which aims to ensure that all EU marine waters are environmentally healthy by 2021. A Marine Strategy Directive will establish European Marine Regions on the basis of geographical and environmental criteria. Each Member State will be required to develop Marine Strategies for its marine waters. For information and to download the Strategy, access <http://europa.eu.int/comm/environment/water/marine.htm>.

#### **- MEASURING PROGRESS IN THE IMPLEMENTATION OF ICZM**

An indicator set has been developed that will allow EUCC member states to determine the extent to which they are implementing integrated coastal zone management (ICZM). The indicator set, used alongside

sustainable development indicators, will also enable coastal managers and authorities to establish whether the ICZM approach is really leading to an improvement of the coast. A set of Guidelines for the use of the Indicator Set accompanies the methodology. For information, access <http://www.eucc.net/en/policy/indicator.htm>.

#### **- STATUS OF THE GLOBAL OCEAN OBSERVATION SYSTEM**

Argo, the international initiative that aims to supply data from a global climate observatory operating by the end of 2007, has now deployed two-thirds of its planned robotic floats in oceans around the world. Uses of the data include: monitoring how the oceans 'drive' hurricanes and typhoons; assessing impacts of ocean temperature, salinity and currents on fisheries and other aspects of regional ecosystems; calculating heat storage by the ocean; studying salinity changes due to changing rainfall; and predicting El Niño events. For information, access

[http://www-comm.pac.dfo-mpo.gc.ca/pages/release/p-releas/2005/nr065\\_e.htm](http://www-comm.pac.dfo-mpo.gc.ca/pages/release/p-releas/2005/nr065_e.htm).

#### **- OTHER DOCUMENTS, NEWSLETTERS AND WEB RESOURCES**

- The UK's "Guide for Managing Coastal Activities" provides guidance for local authorities on their powers to regulate activity and their responsibilities to promote good practices among all users of the coast. It is available at <http://www.defra.gov.uk/wildlife-countryside/issues/coastal/coastal-guidance.pdf>.

- "Understanding and Responding to Climate Change", a new booklet from the US National Academies, highlights themes from its reports that advise agencies working on understanding changing climate, documenting its impacts, and developing response strategies. The booklet is available at [http://dels.nas.edu/basc/climate-change\\_final.pdf](http://dels.nas.edu/basc/climate-change_final.pdf).

- The November 2005 issue of MPA News includes articles entitled "What Qualities Make a Great Park" and "Problems and Recommendations for Using GIS to Improve Decision-Making in California's Channel Islands Marine Reserves". MPA News is available at <http://depts.washington.edu/mpanews/issues.html>.

- "Ecosystem Services and Human Well-being: Wetlands and Water Synthesis" was written as a guide for the parties to the Ramsar Convention on Wetlands on the Millennium Assessment (MA) findings concerning inland, coastal, and nearshore marine wetlands. This and other MA synthesis reports are available at <http://www.millenniumassessment.org/en/Products.Synthesis.aspx>.

- As part of its mandate, the European Environment Agency provides a comprehensive review of the state of the European environment every five years. "The European Environment - State and Outlook 2005" includes an integrated assessment of Europe's environment; a core set of indicators; and a country by country analysis based on nine of the core indicators. For information and to download the report, access [http://org.eea.eu.int/documents/newsreleases/soer2005\\_pp-en](http://org.eea.eu.int/documents/newsreleases/soer2005_pp-en).

- At the mouth of the Bay of Fundy, Cobscook Bay exhibits extraordinary natural productivity and ecological richness. Why these attributes should occur in this mid-latitude Bay is addressed in a series of papers published in "Ecosystem Modeling in Cobscook Bay, Maine: A Boreal, Macrotidal Estuary". The book can be purchased online at <http://eaglehill.us/Merchant2/merchant.mvc> (click on Special Issues of the Northeastern and Southeastern Naturalists).

- A complementary issue of the international journal "Ocean & Coastal Management" (Volume 48, Issue 1) is available at <http://www.sciencedirect.com/science/journal/09645691>.

- "An Implementation Strategy for the Coastal Module of the Global Ocean Observing System", GOOS Report No.148, offers advice and recommended actions for implementing a Global Ocean Observing System (GOOS) in coastal seas and Exclusive Economic Zones. This and other GOOS reports are available at <http://ioc.unesco.org/goos/docs/doclist.htm>.
- A new Fundy Issues Fact Sheet entitled 'Saving Special Places: Protected Areas and the Bay of Fundy' is now available at [http://www.bofep.org/fundy\\_issues.htm](http://www.bofep.org/fundy_issues.htm).
- The fall edition of the "Gulf of Maine Times" features an article on the new technologies that are being used to learn about the Gulf of Maine and western Atlantic Ocean from the sea floor to its surface. It is available at <http://gulfofmaine.org/times/fall2005/index.html>.
- "Free or Fee: The Governmental Data Ownership Debate", a white paper prepared by the Geospatial Information and Technology Association (GITA), examines the issue of governments charging for data that has been collected with public funds. The paper is available at [http://www.gita.org/resources/whitepapers/Free\\_or\\_fee.pdf](http://www.gita.org/resources/whitepapers/Free_or_fee.pdf).
- A Summary of a Workshop on Using Information Technology to Enhance Disaster Management, organized by a Committee of the US National Research Council in June 2005 in Washington, DC, is available at <http://www.nap.edu/catalog/11458.html>.
- The October 2005 issue of MPA News includes articles entitled 'Conservation Incentive Agreements As a Tool for Developing and Managing MPAs' and 'The Coming Challenges for MPAs, and How to Address Them'. MPA News is available at <http://depts.washington.edu/mpanews/issues.html>.
- The MPA Center in the US has published "Enforcing U.S. Marine Protected Areas: Synthesis Report" which summarizes existing literature on MPA enforcement, examines a range of perspectives on the issue, and provides suggestions for effective enforcement of MPAs. The report is available at [http://mpa.gov/virtual\\_library/Publications/enforcement.pdf](http://mpa.gov/virtual_library/Publications/enforcement.pdf). A synthesis is available at [http://www.mpa.gov/information\\_tools/pdf/mpaenforcement-davis.pdf](http://www.mpa.gov/information_tools/pdf/mpaenforcement-davis.pdf).
- A novel combination of a GPS-equipped all-terrain vehicle and a similarly GPS-equipped JetSki, with sonar, was used in California to make beach elevation and bathymetric observations respectively in an erosion study related to a winter storm. For details, refer to the paper available at [http://cdip.ucsd.edu/SCBPS/documents/index/publications/Rapid\\_Erosion\\_Southern\\_California\\_Beach\\_Fill.pdf](http://cdip.ucsd.edu/SCBPS/documents/index/publications/Rapid_Erosion_Southern_California_Beach_Fill.pdf).
- The Cooperative Institute for Coastal and Estuarine Environmental Technology (CICEET) sponsors the development and application of a wide range of coastal technologies in the US. The first set of project progress reports for 2005 are available at <http://ciceet.unh.edu/news/releases/reportRelease/reportRelease.html>

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The following publications have recently been released by the U.S. Army Corps of Engineers:

**ERDC/CHL CHETN-II-49**

Sheldon Marsh – Section 227 Demonstration Project – Physical Model Study.  
 by Shanon A. Chader, Michael C. Mohr, Andrew Morang, Donald Ward, and William R. Curtis  
 If you wish to access/download the document (15 pages, 5.7 MB) in pdf format, the address is:  
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ERDC/CHL TR-05-8 (Coastal Inlets Research Program) Laboratory Study of Hydrodynamics Near Absorbing and Fully Reflecting Jetties. by William C. Seabergh, Lihwa Lin, and Zeki Demirbilek If you

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## Coastal Commission Project Field Symposium

IGCP Project 495: First International Tsunami Field Symposium, Bonaire, March 1-5, 2006

### Registration Form

Name: \_\_\_\_\_  
          Family Name                      Surname                      Middle

Affiliation: \_\_\_\_\_

Professional Address: \_\_\_\_\_  
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\_\_\_\_\_

e-mail : \_\_\_\_\_

I will take part in the field trips:    yes                      no

I will present a paper on \_\_\_\_\_

I will present no paper

Paper presentations are planned during the afternoon of the first two days (March 2<sup>nd</sup> and 3<sup>rd</sup>) (20 Min. incl. 5 Min. for discussion). The papers should deal with extreme sedimentologic and geomorphologic events at the coastlines of the world (like hurricanes, tsunamis, and others).

Deadline for abstracts (to Kellekat e-mail adress) is Oct., 1<sup>st</sup>, 2005.

Deadline for the delivering of manuscripts (acc. to the informations for authors of Zeitschrift für Geomorphologie, only black-and-white-figs.) will be Febr., 15<sup>th</sup>, 2006. Review process immediately will follow the Symposium, publishing of the Proceedings Volume maybe realistic at the end of 2006.

Conference and Field Trip Fees: \$ 200.- US Dollars (without Field Trips: \$ 100.- US Dollars), local guests without field trip are free of charge.

Conference and Field Trip Fees include: Two half-day paper sessions with refreshments, monograph on the coastlines of Bonaire with itinerary for the field trips, Proceedings-Volume (Suppl. Zeitschrift für Geomorphologie, peer-reviewed), two half-day and one full day field trip to sites of hurricane- and tsunami deposits on Bonaire island, informal ice-breaker.

The Symposium will take place at Captain Don's Habitat, Bonaire, P.O. Box 88, Bonaire, Netherlands Antilles, Tel.: 011-599-717-8290, Fax: 011-599-717-8240, Email: [Bonaire@HabitatDiveResort.com](mailto:Bonaire@HabitatDiveResort.com). You can also make your reservations via the North American Representative ([CaptainDon@maduro.com](mailto:CaptainDon@maduro.com)) or via the European Representative ([katharina.g@inter-connect-marketing.de](mailto:katharina.g@inter-connect-marketing.de)). Price for accomodation per person and night in a villa with 2 bedrooms and 2 beds and private facilities each will be about \$ 70.- US Dollar (self-containing, without meals, with AC). A good restaurant is on site. You also can chose another type of accomodation for a higher price. Please identify yourself as a participant of the Tsunami Symposium. Arrival should be on March, 1<sup>st</sup>, 2006, departure maybe in the evening of March 4<sup>th</sup> or the morning of March 5<sup>th</sup>, 2006. Bonaire has international flight connections with North and South America as well as Europe (via Amsterdam).



The Symposium will be organized by Dr. Anja Scheffers and Prof. Dr. Dieter Kelletat, Dept. of Geography, University of Duisburg-Essen, Germany, e-mail: [dieter.kelletat@uni-essen.de](mailto:dieter.kelletat@uni-essen.de) (contact for any question and more information also by telephone 0049 – 208 – 49 78 77). The Symposium will be sponsored by IGCP 495, Coastal Commission of IGU, Sea Grant Program of the University of Puerto Rico, University of Duisburg-Essen (Germany), and others.

Payment (US \$200.- or \$100.-, resp., excl. fees) may be made to Kelletat, IBAN Code DE 77 362 700 24 0 190 2154 01 at Deutsche Bank Germany, Bank Code DE UTDEDB 362, till Oct., 1<sup>st</sup>, 2005.

Please indicate, whether you will take part in the field trips (max. 30, on a first come-first serve basis) or not.

Download and copy this form and mail, e-mail or fax it to:

**Dieter Kelletat**

**Dept. of Geography**

**University Duisburg-Essen, 45117 Essen, Germany**

**Fax 0049 – 201 – 183 – 3741**

**e-mail: [dieter.kelletat@uni-essen.de](mailto:dieter.kelletat@uni-essen.de)**

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