

newsletter

Union Géographique Internationale
International Geographical Union
No. 63, JANUARY 2010
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

First of all, I would like to wish you all a prosperous and exciting year 2010! This year heralds a new decade that will no doubt be strongly marked by a political agenda in favour of the environment in the wake of global change, in contrast to a past decade of political lip service! Central to the question of our environment is the coast, which bears testimony to the march of global change through the effects of storms, sea-level rise and changes in biodiversity. Let us also hope that the lessons learnt from some of the disasters of the last decade, among which the December 2004 tsunami and numerous cyclones, notably Katrina in August-September 2005, will spare us distress in the forthcoming decade. The year 2010 will be one of several exciting meetings, inventoried by Norb Psuty in this first newsletter of the year, and among which is the regional meeting of the IGU in Israel. I hope the members of our commission will find time to contribute to the promotion of knowledge and exchange of ideas through these meetings!

Edward ANTHONY

****COASTAL COMMISSION MEETING****

July 12-16 2010, TEL AVIV, ISRAEL
Regional Meeting, International Geographical Union

Preliminary information regarding the conference is posted at:
<http://www.igu2010.com/siteFiles/3/46/51427.asp>

The IGU Regional Conference 2010 is hosted by the Israeli National Commission for Geography. The conference will take place in Tel Aviv, July 12 – 16, 2010.

The central theme of the conference is **Bridging Diversity in a Globalizing World**. Several keynote speakers will be invited for the plenary sessions. Commissions are encouraged to integrate their meetings within the conference. The region provides visitors with an opportunity to explore the dynamism of a growing Mediterranean economy trying to accommodate both lifestyle-driven development and ecological challenges in diversified environments, including arid regions. Numerous exciting field trips will be arranged before and after the conference to enable you to explore the unique diversity that is Israel.

Abstracts are to be submitted online at the Conference site or on this link:
http://smit2011.net/submission_form_en.aspx. Abstracts are due by **February 1, 2010**.

For further information please contact the Conference Secretariat:
Target Conferences
P.O. Box 29041
Tel Aviv, 61290 Israel
Tel: +972 3 5175150 Fax: +972 3 5175155
email: geography@targetconf.com

OTHER MEETINGS WITH COASTAL INTERESTS

FEBRUARY 17-19, 2010, MIAMI, USA RIP CURRENT SYMPOSIUM

Florida International University, in partnership with Florida Sea Grant, is pleased to announce a call for papers for the Rip Current Symposium, to be held in Miami, Florida. Dr. Robert Brander of the University of New South Wales in Australia will be the international keynote speaker.

More information is available at: <http://www.ripcurrents.fiu.edu/Index.htm>

MARCH 6-10, 2010, ALEXANDRIA, EGYPT COASTAL ZONE MANAGEMENT OF RIVER DELTAS AND LOWLAND COASTLINES

The Ministry of Water Resources and Irrigation of Egypt (MWRI) is hosting this conference, in cooperation with other governmental institutions, through its Coastal Research Institute (CoRI) of the National Water Research Center (NWRC) to capitalize on the initiative drive of the conference steering team at Costamarine Technologies (CMT), USA, the Arab Academy for Science and Technology and Maritime Transport (AASTMT), Egypt and the Coastal Zone Foundation (CZF), USA, towards sustainable sea & ocean solutions. The realization of the conference was further established by the participation of the US co-sponsors which are: The American Society of Civil Engineers; ASCE, The

United States Geological Survey;USGS, The American Shore and Beach Preservation Association; ASBPA, and The National Oceanic and Atmospheric Administration;NOAA.

Further information is available at: <http://www.nwrc-egypt.info/Home.php>

**APRIL 11-17, 2010, ESTORIL, CASCAIS, PORTUGAL
INTERNATIONAL CONFERENCE ON COASTAL CONSERVATION AND
MANAGEMENT IN THE ATLANTIC AND MEDITERRANEAN**

The New University of Lisbon, the Cascais Municipality, the Cascais Energy Agency, the Cascais Atlantic Agency and the Organizing Committee, are pleased to announce ICCCM2010.

Please find information at <http://icccm.dcea.fct.unl.pt>

For further questions, contact: icccm@cascaisenergia.org

APRIL 19-21, 2010, ISLANDS 2010, BRAR ISLAND, CROATIA

First international conference on Island Sustainability – see IGU Commission on Islands for further information.

**MAY 2-7, 2010, VIENNA, AUSTRIA
EUROPEAN GEOSCIENCES UNION GENERAL ASSEMBLY**

GM 10.2 Coastal Zone Geomorphologic Interactions: Natural Versus Human-Induced Driving Factors

This session is being organized by **Margarita Stancheva**, Bulgarian Academy of Sciences, **Andreas Baas**, King's College UK, and **Geogio Anfuso**, University of Cadiz, Spain. 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 behaviour (advance or retreat) and will address the many natural and anthropogenic factors involved. The topics may include work on predictions of shoreline change and discussions on the effects of human activities and their continuing contribution to coastal changes. 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.

Due date for abstracts is **January 18, 2010**. Further information is at:

<http://meetings.copernicus.org/egu2010>

MAY, 11-13, 2010, CASABLANCA, MOROCCO

2nd International Symposium on Sediment Management, organized by the Moroccan Association of Catalysis and Environment in collaboration with the Ecole des Mines Douai, France. Contact: website – www.amcemorocco.ma Email: i2sm.morocco@gmail.com

JULY, 5-9, 2010, SANTA ROSA, ARGENTINA
INTERNATIONAL CONFERENCE ON EOLIAN RESEARCH - ICARVII

you will find actualized information on:

- REGISTRATION: deadlines, fees, forms, payment systems
 - ABSTRACTS: submission deadlines, format, evaluation systems
 - TRANSPORT AND ACCOMODATION: A Word file provided by a local travel agency content details on transportation, accomodation, food, and touristic trips within Argentina, web site (www.icarvii.com.ar)
- Contact Daniel Buschiazzo buschiazzo@agro.unlpam.edu.ar
ICARVII Chair
-

JULY 25-29, 2010, CHARLOTTETOWN, PRINCE EDWARD ISLAND, CANADA
COASTAL ZONE CANADA 2010

CALL FOR PAPERS:

15 January 2010 is the deadline for submitting abstracts to the international conference "Coastal Zone Canada 2010", scheduled for 25-29 July 2010 in Charlottetown, Prince Edward Island. The theme is 'Healthy Oceans - Strong Coastal Communities'. Sub-themes include: Watershed planning and management; Coastal land-use planning; Small island development; Healthy Coastal communities; The Rights of sand; and Canadian Integrated Coastal and Ocean Management -<http://www.gov.pe.ca/czc2010>.

AUGUST 27-30, 2010, IGU COMMISSION ON ISLANDS, VEN, SWEDEN

“Finding Their Place: Islands in Social Theory

see IGU Commission on Islands for more details.

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

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

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

How do we deal with the present level of risk?

How do we respond to changing future conditions?

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

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

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

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

SEPTEMBER 21-23, 2010, LONDON, UK
LITTORAL 2010
CALL FOR PAPERS

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

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

All the papers will be reviewed by the Littoral International Committee and accepted papers will appear in the conference proceedings. Both abstracts and full papers must be submitted electronically according to the guidelines below. The accepted papers will be presented during regular or poster sessions as indicated by the committee.

Abstract submission due: **Extended deadline: 29th January 2010**

Abstract acceptance notification due: **28th February 2010**

Camera-ready final papers/posters due: **28th June 2010**

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

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

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

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

Abstracts are due by **March 15, 2010**. Kindly send your abstract (in Word format, not to exceed 300 words) to Dr Anton Micallef, Conference Chairman, by e-mail to: mcrr3-2010@um.edu.mt. A full authors' manual will be provided in a second conference announcement in February 2010 and will also be available for download from the conference website at <http://www.um.edu.mt/iei/mcrr3-2010> .

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

Preparing for Climate Change: Science, Practice, and Policy

This is the only national conference that focuses exclusively on coastal habitat restoration, and we invite

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

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

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

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

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

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

REPORT ON MEETING

COASTGIS09 CONFERENCE REPORT

9th international GIS Coastal Conference – CoastGIS09

Itajai, Brasil

CoastGIS09 was hosted at Univali (Universidade do Vale do Itajai) in Itajai, Santa Catarina in southern Brasil, 30 September - 2 October, 2009. Around 250 coastal science researchers and coastal environmental managers met for this the 9th in the series of CoastGIS international Conferences, and the concurrent V Congresso Sobre Planejamento e Gesttao das Zonas Costeiras Pais de Expressao Portuguesa (CZCPP). The joint conferences drew around 250 participants and the local organizing committee was led by Dr. Rafael Medeiros Sperb of UNIVALI. *CoastGIS* takes on an ever more important role in bringing together researchers, government officials and representatives of national, regional and international organisations, to examine the challenges faced by coastal populations – and to propose and discuss potential solutions to those challenges.

CoastGIS09 commenced with a series of hands-on workshops, the first on Spatial Data Infrastructure co-ordinated by Roger Longhorn, the second on Digital Coastal Atlases, run by Ned Dwyer and Luis Conti, and the third on Community-based coastal risk assessment organised by Michael McCall and Graciela Guarin. The workshops were well attended, informational, and an opportunity to get 'hands on' experience with some of the technologies and issues facing coastal planners, managers and researchers. The introductory workshops were followed by three days of technical papers focusing on applications of GIS for the coastal and marine research and management.

Presentations spanned many of the coastal regions of the world, and included beach and dune management, coastline vulnerability assessment, and the dispersal and spread of marine pollutants in the coastal zone. There was a healthy mix of papers and posters from postgraduate students, coastal managers and academics, and a particularly impressive representation of studies on the coast of South America. This year also saw increased coverage of issues such as Participatory GIS (PGIS) in which coastal

communities are directly involved in assessing the issues facing them – and want to learn more about the technologies and policies that can help.

The CoastGIS conference series began in 1995 in Cork, Ireland, with subsequent conferences held in Aberdeen, Scotland (1997), Brest, France (1999), Halifax, Nova Scotia, Canada (2001), Genoa, Italy (2003), Aberdeen (2005), Wollongong, Australia (2006) and Santander (2007). Future *CoastGIS* conferences have been proposed to be held in Oostende, Belgium (2011) and Victoria, Canada (2013). Submitted by **Colin Woodroffe**, University of Wollongong, and **Roger Longhorn**, EU Projects Office.

Grist and Grains

The IGU Commission on Coastal Systems (CCS) has a web site which can be found at:

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

The **Journal of Coastal Research** announces a special offer with any new or renewal of a subscription to the journal. With the basic one-year subscription, you will receive your choice of any two of the Special Issue volumes that are still in print (38 of 57 volumes remain available) free of any additional cost. The Journal of Coastal Research is one of the leading international journals focusing on the science and management of the coastal zone. Please go to the Journal's website to take advantage of this unique offer: <http://cerf-jcr.org/> Subscriptions are available in hard copy format as well as electronically. If you have questions about the offer, please contact the editor, **Charles Finkl**, through the Journal's web site, or contact me: psuty@marine.rutgers.edu.

The list of available Special Issues includes;

- #4-Effects of Seawalls on the Beach**
- #5-High Concentration Cohesive Sediment Transport**
- #7-Rational Design of Mound Breakwaters**
- #8-The Impacts of Hurricane.Hugo**
- #11-Quaternary Geology of Long Island Sound**
- #12-Coastal Hazards**
- #13-Atlas of Coastal Geomorphology**
- #14-Impacts of Accelerated Sea Level Rise**
- #15-Beach and Surf Zone Morphodynamics**
- #17-Holocene Cycles: Climate, Sea Levels, and Sedimentation**
- #18-Beach/Inlet Processes**
- #20-Coastal Wetland Loss**
- #21-Hurricane Andrew**
- #22-Geomorphology of the Polish Coast**
- #23-Understanding Physical Processes at Tidal Inlets**
- #24-Island States at Risk**
- #25-Sediment Transport and Buo**
- #26-Proceedings of the ICS (USA, 1998)**
- #27-Tidal Wetland Restoration**
- #28-Coastal Erosion Mapping & Management 1999**
- #29-Natural and Artificial Reefs for Surfing & Coastal Protection 2001**
- #30-Tidal Dynamics: Theory & Analysis of Tidal Forces,**
- #31-Tidal Dynamics: Extreme Tidal Peaks & Coastal Flooding**
- #32-Barnegat Bay - Little Egg Harbor, New Jersey: Estuary & Watershed Development**

- #33-Function & Design of Coastal Groins
- #34-Proceedings of the ICS (New Zealand, 2000)
- #35-Proceedings of the ICS (Brazil, 2003)
- #37-Motorized Watercraft 2004
- #38-Shoreline Mapping 2003
- #39-Proceedings of the ICS (Australia, DVD Pts 1-3)
- #40-Coastal Restoration-Past, Present and Future.
- #42-The Sun, Earth and Moon 2005: A Tribute to Rhodes W. Fairbridge
- #43-Tidal Dynamics and Environment#44 Saving America's Wetland: Strategies for Restoration of Louisiana's Coastal Wetlands & Barrier Islands
- #45-NERRS Research & Monitoring: A Nationally Integrated Program
- #47-ECOSUD: Estuaries & Coastal Areas: Basis and Tools for a More Sustainable Development
- #52-Surface Water Modeling
- #55-Research & Monitoring of NERRS Aquatic Ecosystems
- #57-The Chesapeake Bay NERRS in Virginia: A Profile of the York River Ecosystem,

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

Australia's Coastal Smartline Geomorphic and Stability Map

Australia's new Smartline Coastal Geomorphic and Stability Map is a detailed map of the coastal landform types – or 'geomorphology' – of the whole of continental Australia and most adjacent islands (excluding the Great Barrier Reef). It has been compiled by a University of Tasmania project team led by **Chris Sharples** and **Richard Mount** who have combined mapped coastal landform data from over 200 diverse pre-existing datasets into a single nationally-consistent format and classification scheme. The Smartline map project was commissioned by the Department of Climate Change (formerly the Australian Greenhouse Office) and Geoscience Australia as part of a national vulnerability assessment, assessing the vulnerability of Australia's coast to sea-level rise. The Smartline format is an innovative way of capturing a great deal of information in a simple GIS line which can be readily analysed and used for an unlimited range of purposes. The Smartline mapping and supporting information can now be viewed on the OzCoasts website at www.ozcoasts.org.au Reported by **Colin Woodroffe**, University of Wollongong

Roger Longhorn draws our attention to a report raising issues for those living in the coastal zones in developing nations, the projected costs for climate change adaptation - and how these will be met (or not). According to this new 2009 World Bank report, the costs of adaptation have been grossly underestimated by the IPCC studies so far. The report notes that the projected costs for climate change adaptation alone equal the total aid now going to developing countries for 'normal' development needs. While some of the current aid can and will be geared to projects and programs that are needed today and which also have an impact on climate change adaptation, much of the current aid budgets are targeted at needs that have little to do with climate change.

It is estimated that the cost between 2010 and 2050 of adapting to an approximately 2°C warmer world by 2050 is in the range of \$75 billion to \$100 billion a year. The report helps decision makers in developing countries understand the risks posed by climate change and design better strategies to adapt to climate change. The Costs to Developing Countries of Adapting to Climate Change: New Methods and

Estimates (consultation draft), The Global Report of the Economics of Adaptation to Climate Change Study, World Bank, 2009: http://www.preventionweb.net/files/11228_EACCRReport0928Final.pdf

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

TIDAL POWER DEVELOPMENT IN THE BAY OF FUNDY

The Strategic Environmental Assessment of In-Stream Tidal Energy Generation Development in New Brunswick's Bay of Fundy Coastal Waters was submitted to the Province in November 2008. The report contained 19 recommendations to be considered if the Province moves forward with developing in-stream tidal energy in the Bay - <http://www.bofep.org>. The Government of New Brunswick has issued a formal response to the recommendations

<http://www.gnb.ca/0085/pdf/NBGovernmentResponseSEAMar09E.pdf>.

CANADA'S INTEGRATED APPROACH TO MPA ESTABLISHMENT

In Canada, three federal authorities have a mandate to designate and manage marine protected areas: Fisheries and Oceans Canada, Parks Canada and Environment Canada. An article in the April 2009 issue of MPA News outlines how they are working together to integrate their MPA planning to achieve efficiencies and maximize conservation benefits - <http://depts.washington.edu/mpanews/issues.html>.

HOW WE FISH MATTERS

The study ranks the ecological impacts of 13 different gear types used in Canada, from bottom trawls to lobster traps. The study, released by the Living Oceans Society, Ecology Action Centre and Marine Conservation Biology Institute, also recommends that adequate monitoring, research and data collection on fishing gear impacts be undertaken and that proper planning and implementation of marine protected areas occur - <http://www.ecologyaction.ca/content/how-we-fish>.

PROCEEDINGS: COASTAL GEOTOOLS 2009

Coastal Geotools was held on 2-5 March 2009 in Myrtle Beach, South Carolina. The theme was 'Building the Digital Coast'. The Conference focused on emerging tools and techniques, and their benefits and applicability; available resources; best practices; and the development of public and private partnerships. The proceedings and the presentations are available at

<http://www.csc.noaa.gov/geotools/program.html>.

ASSESSMENT OF THE EUROPEAN NETWORK FOR COASTAL RESEARCH

The Network (ENCORA) was launched in 2006 to address the major causes for the stagnation in implementing integrated coastal zone management (ICZM) in Europe: fragmentation of coastal science, policy and practice; difficult communication between coastal science, policy and practice; and lack of multidisciplinary approaches. An evaluation of the ENCORA project documents the degree to which the objectives have been met; the impact of ENCORA on ICZM; and recommendations for follow-up initiatives - <http://www.encora.eu>.

CHANGING OCEANS, CHANGING WORLD

The Joint Ocean Commission in the USA has released Ocean Priorities for the Obama Administration and Congress. The report outlines priority actions for ocean and coastal policy and management, international leadership, ocean science, and funding for ocean and coastal policies and programs. The actions relate to climate change and its impacts, a comprehensive energy policy that includes ocean-based energy

resources, and the national economy, which depends on ocean and coastal activities and resources - <http://www.jointoceancommission.org>.

ADAPTATION OPTIONS FOR ESTUARINE MANAGEMENT

The Climate Ready Estuaries program of the US Environmental Protection Agency has finalized a technical report entitled "Synthesis of Adaptation Options for Coastal Areas". The guide provides a brief introduction to key physical impacts of climate change on estuaries and a review of on-the-ground adaptation options available to reduce vulnerability to impacts - <http://www.epa.gov/climatereadyestuaries/adaptationoptions.html>.

OCEAN DEBRIS AND COASTAL CLEANUPS

The Ocean Conservancy report entitled "A Rising Tide of Ocean Debris and What We Can Do About It" presents data recorded by nearly 400,000 volunteers in 104 countries and locations during the International Coastal Cleanup, an event held yearly in September. The report documents the types and sources of debris and its impact on wildlife and connection to global climate change. It also includes recommendations for eliminating marine debris - http://www.oceanconservancy.org/site/PageServer?pagename=icc_report.

STATE OF WORLD FISHERIES AND AQUACULTURE 2008

The FAO publication provides the most current global view and perspective on fisheries and aquaculture, including trends and statistics. It focuses on some of the aspects of fisheries and aquaculture that may receive increasing attention, including climate change and the use of marine genetic resources in areas beyond national jurisdiction. The report also highlights some of FAO's special studies - <http://www.fao.org/docrep/011/i0250e/i0250e00.htm>.

US NGA POLICY POSITION ON OCEAN AND COASTAL MANAGEMENT

The US National Governors Association (NGA) has adopted a policy position on Ocean and Coastal Management. The policy notes a compelling national interest in ocean and coastal economic and environmental resources and calls for reauthorization of the Coastal Zone Management Act, establishment of an ocean trust fund, increased funding for state regional partnerships, creation of a national strategy for climate change adaptation, and accession to the Law of the Sea Treaty - <http://www.nga.org/portal/site/nga/menuitem.8358ec82f5b198d18a278110501010a0/?vnextoid=2a0b9e2f1b091010VgnVCM1000001a01010aRCRD>.

THE EUROPEAN COMMISSION'S OURCOAST

The OURCOAST project has been launched by the European Commission to support the exchange of experiences in coastal planning and management. It will focus on adaptation to risks and the impacts of climate change, information and communication systems, planning and land management instruments, and institutional coordination mechanisms -: <http://ec.europa.eu/environment/iczm/ourcoast.htm>.

MARITIME SPATIAL PLANNING IN THE EU

The European Commission has organised a series of workshops to discuss the options for implementing maritime spatial planning in the EU and the specific key principles set out in the roadmap - http://ec.europa.eu/maritimeaffairs/spatial_planning_en.html. A Workshop was held on 2-3 July 2009 in S. Miguel, Azores, Portugal. The Workshop presentations and conclusions are available at http://ec.europa.eu/maritimeaffairs/msp/workshop_020709_en.html. A concluding conference was scheduled for 2 October 2009 in Stockholm, Sweden.

PLANNING FOR CLIMATE CHANGE

A "Planning for Climate Change Workshop" was piloted in two locations in March 2009 in Washington State, USA. The Workshop was designed primarily for shoreline planners and primarily focused on

actions that can be taken to prepare and adapt to the anticipated impacts of climate change. Workshop materials, including class materials, links to climate training resources, lessons learned, and streaming video/powerpoint presentations, are available at: <http://nerrs.noaa.gov/Training/padillabay/project.html>.

ATLAS OF THE GRAND BANKS

The "Grand Banks of Newfoundland: Atlas of Human Activities" features maps and accompanying text. It is designed to provide ocean planners, managers and other users with a visual interpretation on the location and extent of major human activities such as fisheries, oil and gas and commercial shipping occurring on the Grand Banks of Newfoundland. The Atlas is available at: <http://www.dfo-mpo.gc.ca/Library/336890.pdf> (115 MB).

MARINE SPATIAL PLANNING FOR EBM

The guide entitled "Marine Spatial Planning: A Step-by-Step Approach toward Ecosystem-based Management" was published by UNESCO's Intergovernmental Oceanographic Commission. The guide defines Marine Spatial Planning (MSP), why it is needed, what its benefits and outputs are, and describes how MSP relates to other marine management approaches. It also includes a ten-step approach to show users how MSP could become operational in their area – <http://www.unesco-ioc-marinesp.be/uploads/documentenbank/d87c0c421da4593fd93bbee1898e1d51.pdf>.

IMPACTS OF CLIMATE CHANGE IN THE GULF OF MAINE

Recent publications produced or sponsored by the Gulf of Maine Council on the Marine Environment include: Identifying Coastal Habitats at Risk from Climate Change Impacts in the Gulf of Maine; Identifying the Possible Effects of Climate Change on Invasive Species in the Gulf of Maine - a Background Report; and Identifying the Possible Effects of Extreme Precipitation and other Climate Change Impacts on Streamflow and Water Quality in the Gulf of Maine - a Background Report - <http://gulfofmaine.org/council/publications>.

ICES ICZM WORKING GROUP REPORT

The Integrated Coastal Zone Management Working Group of the International Council for the Exploration of the Sea (ICES) met on 24-27 March 2009 in Geesthacht, Germany. The meeting report includes updates on ICZM activities in different ICES countries, including information on initiatives towards integrated governance of the coastal zone, and progress on the development of an integrated decision making framework for ICZM - <http://www.ices.dk/workinggroups/ViewWorkingGroup.aspx?ID=108>.

GUIDEBOOK: ADAPTING TO CLIMATE CHANGE

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

PROCEEDINGS: COASTAL ZONE 09

The Conference was held on 19-23 July 2009 in Boston, Massachusetts. The theme was 'Revolutionary Times: Catching the Wave of Change'. Topics included: the US climate change strategy and how it will impact coastal communities and organizations, regional ocean governance, coastal conservation and restoration, marine protected areas, coastal and ocean observations, and land use planning. The proceedings, consisting of extended abstracts, are available at <http://www.csc.noaa.gov/cz/index.html>.

SMART GROWTH GUIDE FOR COASTAL AND WATERFRONT COMMUNITIES

Developed in consultation with the national Smart Growth Network in the US, the interagency Guide builds on the Network's ten smart growth principles to create coastal and waterfront-specific strategies for development. The Guide includes an overview of the unique development challenges and opportunities along the water and provides specific approaches to development that include a description of the issues, tools and techniques, and case studies - <http://coastalsmartgrowth.noaa.gov/report.html>.

EFFECTS OF EXTRACTION OF MARINE SEDIMENTS ON THE MARINE ENVIRONMENT 1998 – 2004

This ICES report presents the latest synthesis of recent research on the effects of marine sediment extraction. It also provides a synthesis of state-of-the-art approaches to understanding the effects of the extraction; provides detail on established legislative frameworks; and identifies the latest developments in approaches to assessing risk at proposed extraction areas - <http://www.ices.dk/pubs/crr/crr297/CRR%20297.pdf>.

SPATIAL APPROACHES TO INTEGRATED MANAGEMENT

As part of a process to establish a national network of integrated landscape management (ILM) practitioners and experts across Canada, a Network Implementation Workshop was held on 4-5 March 2008 in Winnipeg, Manitoba - see https://policyresearch.gc.ca/page.asp?pagenm=2009-0013_toc. A Workshop backgrounder entitled "Collaborating to Implement Spatial Approaches to Integrated Management" is also available at http://www.policyresearch.gc.ca/doclib/BK_SD_31032009-eng.pdf.

KEY NEW FINDINGS RE CLIMATE CHANGE

A brief published by the Pew Center on Global Climate Change summarizes key developments in climate science since the publication of the 4th Assessment Report in 2007 by the Intergovernmental Panel on Climate Change (IPCC). The majority of the new developments described in the brief are based entirely or partially on direct observations of climate change. The brief concludes that, in general, the IPCC projections now appear rather conservative in light of more recent observations and improved modeling techniques - <http://www.pewclimate.org/brief/science-developments/June2009>.

ECONOMICS OF CLIMATE CHANGE ADAPTATION IN EU COASTAL AREAS

The study reviews the financial dimension of the actions undertaken to prepare Europe's coastal zones for the effects of climate change. It also compares the different climate change adaptation aspects from an empirical perspective. The study includes specific reports for each of the coastal Member States. The study reports are available at http://ec.europa.eu/maritimeaffairs/climate_change_en.html.

ECONOMICS FOR COASTAL MANAGERS

"Introduction to Economics for Coastal Managers" provides a basic introduction to economic ideas and methods that can be applied to coastal resource management. The economic concepts are illustrated by several case studies. The publication is the third in a series developed by NOAA's Coastal Services Center on the use of social science tools for coastal management - <http://www.csc.noaa.gov/coastaleconomics>.

- A webinar on "Managing Ecosystems, Managing Fisheries: How do EBM and EBFM Relate?" was held on 16 March 2009. The webinar materials, including an audio recording, the PPT presentations, an indexed transcript and a list of references for websites and publications mentioned during the webinar, are available at: http://www.ebmtools.org/about_ebm/meam.html.

- A bill has been introduced in the US Congress that would amend the Coastal Zone Management Act of 1972 to require the establishment of a coastal climate change adaptation planning and response program. The bill has been referred to the Committee on Natural Resources - search for HR 1905 (Bill Number) at: <http://thomas.loc.gov>.

- The US National Academies report entitled "Informing Decisions in a Changing Climate" concludes that scientific priorities and practices need to change so that the scientific community can provide better support to decision makers in managing emerging climate risk. It recommends six principles that all agencies should follow in supporting decision makers - http://www.nap.edu/catalog.php?record_id=12626.
- The 13-page guide entitled "Climate Literacy: The Essential Principles of Climate Science" includes information on how individuals and communities can help reduce climate change and its impacts. It also defines important terms and concepts related to climate and approaches to adaptation and mitigation - http://www.noaanews.noaa.gov/stories2009/20090318_climateliteracy.html.
- The "Climate Change Outreach and Communications Guide" was designed to provide guidance to municipalities in the US. It includes a communications overview and sections on identifying and reaching target audiences and options for communicating climate change - <http://www.icleiusa.org/action-center/engaging-your-community/outreach-and-communications-guide/Outreach%20and%20Communications%20Guide.pdf>.
- The report of a Workshop on Collaboration Between IOC and OBIS Towards the Long-term Management, Archival and Accessibility of Ocean Biogeographic Data, held on 24-26 November 2008 in Oostende, Belgium, is available at: http://www.iode.org/index.php?option=com_content&task=view&id=108&Itemid=128.
- The latest Arctic sea ice data from NASA and the US National Snow and Ice Data Center show that the decade-long trend of shrinking sea ice cover is continuing. New evidence from satellite observations also shows that the ice cap is thinning as well: <http://earthobservatory.nasa.gov/Newsroom/view.php?id=37803>.
- A "Symposium on Marine Ecosystem Based Management in the Caribbean: An essential Component of Principled Ocean Governance" was held on 10-12 December 2008 at the University of the West Indies, Cave Hill Campus, Barbados. The final Workshop report is available at: http://marineaffairsprogram.dal.ca/MAP_Projects/EBM_Symposium.php.
- The Wetlands and Global Climate Change Conference, organized by the Association of State Wetland Managers in the US, was held on 16-18 September 2008 in Portland, Oregon. The presentations and the draft "Recommendations for a National Wetlands and Climate Change Initiative", based on the Conference, are available at <http://www.aswm.org/calendar/wetlands2008/index.htm>.
- The International Scientific Congress on Climate Change was held on 10-12 March 2009 in Copenhagen, Denmark. The preliminary conclusions from the Congress will be developed into a synthesis report which will be provided to the participants at the United Nations Climate Change Conference (COP15) in December. The key findings from the Congress are available at <http://climatecongress.ku.dk/newsroom>.
- "Survival Skills for Coastal Resource Managers", an online course from NOAA's Coastal Services Centre, provides practical information about the coastal management framework, collaborative processes, and information management in the US - <http://www.csc.noaa.gov/cms/cls/cmp.html>.
- Marine Scotland, a new management body, is being established to play a key role in managing Scotland's seas, with direct responsibility for marine science, planning, policy development, management and compliance monitoring measures. It will work with other partners with marine interests on issues

such as such as marine renewables, and environmental sustainability - <http://www.scotland.gov.uk/News/Releases/2009/02/09163825>.

- MPA News features international news and analysis on Marine Protected Areas. The March 2009 issue includes an article on how the global financial crisis could affect MPAs, and what practitioners are doing to prepare for it- <http://depts.washington.edu/mpanews/issues.html>.

- The 30th annual Meeting of the Helsinki Commission, the governing body of the Convention on the Protection of the Marine Environment of the Baltic Sea Area, ended with the adoption of a plan for a holistic assessment of the environmental status of the Baltic Sea. The assessment will assist the implementation of the Baltic Sea Action Plan, which aims to drastically reduce pollution in the marine environment and restore its good ecological status by 2021 - http://www.helcom.fi/BSAP/4th/en_GB/Fourth_Stakeholder_Conference/.

- An ICES Cooperative Research Report on the effect of climate change on the distribution and abundance of marine species in the OSPAR Maritime Area (the North-East Atlantic) is available at <http://www.ices.dk/products/cooperative.asp>.

- "Developing a Management Strategy for North Carolina's Coastal Ocean", a draft report for public comment, includes recommendations to develop a comprehensive plan to protect beaches and inlets, to identify available sand resources, to create a coastal vulnerability index, and to map ocean resources - <http://www.nccoastalmanagement.net/News/2009%20releases/opsc%20meetings.html>.

- A workbook produced for the New York City Climate Change Adaptation Task Force provides climate change projections for the City and identifies some of the potential risks to the critical infrastructure posed by climate change - http://www.nyc.gov/html/om/pdf/2009/NPCC_CRI.pdf.

- "New Directions in Climate Change Vulnerability, Impacts, and Adaptation Assessment" is a summary of a US National Research Council workshop on the specific needs associated with the gap between the demand and supply of scientific information about climate change adaptation - http://www.nap.edu/catalog.php?record_id=12545.

- A Forum on Prospects for Systems Science Assessments in support of ICZM was organized by the SPICOSA (Science and Policy Integration for Coastal System Assessment) team on 10 June 2009 in Rome, Italy. The presentations are available at: <http://www.spicosa.eu/rome/index.htm>.

- The OceanObs'09 Symposium is scheduled for 21-25 September 2009 in Venice, Italy. Community White Papers are being prepared as the basis for planning and building consensus. The papers are focused on specific observing networks, observing technology, scientific questions requiring observations, observing and data system infrastructure, or the development of ocean information. They are available for download and comment - <http://www.oceanobs09.net>.

- A NOAA-funded research project is being conducted to assess the resilience of coastal communities in Maine and Oregon. The goal of the project is to move behavior toward decisive action that results in coastal communities becoming more resilient to climate variability at all scales. A five-part documentary and reports that summarize the results of the project for Maine are available at <http://www.seagrant.umaine.edu/extension/coastal-community-resilience>.

- The publication entitled "Climate Change Information for Effective Adaptation - A Practitioner's Manual" is intended to serve as a guide. Its aim is to extend the capacity of practitioners to find answers in any specific situation, using the best information available -

<http://www.pik-potsdam.de/research/research-domains/climate-impacts-and-vulnerabilities/research/research-field-2-1/nsp/pubs/pik-gtz-adaptation-manual>.

- The United Nations Framework Convention on Climate Change secretariat has released an update of the GHG Data Interface. A new feature in this release is a 'Global map - Annex I' which provides access to key greenhouse gas (GHG) data for Annex I Parties in a map format - <http://maps.unfccc.int/di/map/>.

- The review entitled "Impacts of Climate Change on Marine Organisms and Ecosystems", published in the journal "Current Biology", describes present-day climate change, setting it in context with historical change, considers consequences of climate change for marine biological processes now and into the future, and discusses contributions that marine systems could play in mitigating the impacts of global climate change - [http://www.cell.com/current-biology/fulltext/S0960-9822\(09\)01181-6](http://www.cell.com/current-biology/fulltext/S0960-9822(09)01181-6).

- The report entitled "Good Morning, America! The Explosive U.S. Awakening to the Need for Adaptation" provides an historical overview of the public, political, and scientific concern with adaptation in the US and identifies a number of barriers to basic adaptation planning and more ambitious policy developments. Recommendations are provided - <http://www.csc.noaa.gov/publications/need-for-adaptation.pdf>.

- The 2009 California Climate Adaptation Strategy Discussion Draft summarizes the latest science on how climate change could impact the state, and provides recommendations on how to manage against those threats in seven sector areas: public health, biodiversity and habitat, ocean and coastal resources, water management, agriculture, forestry, and transportation and energy infrastructure - <http://www.climatechange.ca.gov/adaptation/index.html>.

- "We All Share the Coast: A Workshop on Coastal Access" was held on 7 May 2009 in Halifax, Nova Scotia. The aim of the workshop was to discuss coastal access issues and to develop potential solutions to these issues. The workshop summary is available at <http://www.ecologyaction.ca/files/images/file/Coastal/We%20All%20Share%20the%20Coast%20Report.pdf>.

- The Marine Affairs Policy Forum provides perspectives on current and emerging issues of concern to the coastal and ocean policy community in the Atlantic Region. The current issue focuses on "Addressing Sea-Level Rise and Storm Events as a Priority Coastal Issue in Nova Scotia" - http://marineaffairsprogram.dal.ca/Files/MAP_Policy_Forum_July_2009_-_Sea_Level_Rise_and_Storm_Events.pdf.

- The LOICZ report entitled "Dynamics and Vulnerability of Delta Systems" discusses the changes and vulnerabilities of world deltas resulting from anthropogenic alteration of upstream freshwater and sediment inflows; anthropogenic alteration of sediment and water routing through deltas; hydrocarbon and groundwater extraction from deltas; sea-level change; and the increased frequency of extreme climate events - <http://www.loicz.org/products/publication/reports/index.html.en>.

- The report entitled "Global Climate Change Impacts in the United States" focuses on impacts in different regions of the US and on various environmental and societal sectors. The report also discusses both mitigation and adaptation responses to climate change - <http://www.globalchange.gov/usimpacts>.

- A report entitled "State of the U.S. Ocean and Coastal Economies 2009" has been issued by the US National Ocean Economics Program. The report states that coastal states account for 83 per cent of the US economy - <http://noep.mbari.org/NationalReport>.

- A Federal Wetlands Mapping Standard has been approved in the US. The Standard provides minimum requirements and guidelines for wetlands mapping efforts. It is designed to guide current and future wetlands digital mapping projects and enhance the overall quality and consistency of wetlands data - http://www.fws.gov/wetlands/_documents/gNSDI/FGDCWetlandsMappingStandard.pdf.
- A series of global maps are available from NASA. Topics include: sea surface temperature, land surface temperature, total rainfall, snow cover, etc. - <http://earthobservatory.nasa.gov/GlobalMaps>.
- In June, US President Obama issued a memorandum establishing an Interagency Ocean Policy Task Force. The Task Force is seeking input on the issues set forth in the memorandum: National Policy; Framework for Policy Coordination; Implementation Strategies; Marine Spatial Planning; and Emerging Issues on Ocean, Coasts and Great Lakes Policy - <http://www.whitehouse.gov/administration/eop/ceq/initiatives/oceans/>.
- The Fundy Issues fact sheets, published by the Bay of Fundy Ecosystem Partnership, describe environmental issues confronting the Bay. Issue #30 entitled "Tweaking Tidal Technology: Harnessing Fundy's Phenomenal Tides?" examines early efforts to extract power from Fundy waters in order to provide an historical context and a baseline for assessing recent initiatives for tidal power development in the Bay - http://www.bofep.org/fundy_issues.htm.
- EcoAdapt is undertaking a Marine and Coastal Adaptation Survey of past, current, and proposed climate change adaptation activities and projects in North America. The results will be used to prepare a synthesis report of the state of coastal and marine adaptation in the US, Canada, and Mexico - http://www.surveymonkey.com/s.aspx?sm=bvAhkrVsD7IzZS93_2bA_2fHRg_3d_3d.
- The Ecosystem-Based Management Tools Network hosted a webinar presentation on an Integrated Land-Sea Planning Toolkit and its use in Aransas County, Texas on 22 September 2009. The presentation described the project, how the local community is involved in use of the toolkit, and methods for using the tools in an integrated manner. A recording of the webinar is available at: <https://transfer.natureserve.org/download/longterm/EBM%20Tools>.
- The European Commission has released a strategy aimed at countering the various maritime challenges in the Mediterranean Sea basin and improving governance of maritime affairs. The strategy addresses competition for marine space, threats to maritime safety, environmental degradation and the adverse effects of climate change - http://ec.europa.eu/maritimeaffairs/press/press_rell10909_en.html.
- The Expert Group of the UN Environment Programme (UNEP) and the Intergovernmental Oceanographic Commission of UNESCO (IOC-UNESCO) have released the "Assessment of Assessments" report, a comprehensive overview of the marine assessment landscape that also considers socio-economic factors - <http://www.eurocean.org/np4/1200.html>.
- The book entitled "Tools and Criteria for Sustainable Coastal Ecosystem Management" discusses operational bioindicators for sustainable coastal management, criteria for coastal area sensitivity to eutrophication and an approach set for a "biological value" of coastal areas. Case-studies exemplify the practical use of the bioindicators and concepts discussed in the book. Purchase information is available from online book retailers.
- A seminar on Coastal Processes and Erosion Response was held on 6-8 October 2009 in Anchorage, Alaska. The Seminar background papers on Beach Nourishment, Coastal Erosion Responses, Coastal Sediments & Sediment Budgets, Nikiski Coastal Processes, Revetments, Seawalls, Tides and Tidal

Datums, and Winds and Waves are available at:

http://www.alaskacoast.state.ak.us/Enews/coastal_processes/index.html.

- The Massachusetts Division of Marine Fisheries has published "Eelgrass (*Zostera marina*) Restoration and Monitoring Technical Guidelines". The document is intended to be used as a guide in the design and review of eelgrass restoration and mitigation projects -

http://www.mass.gov/dfwele/dmf/programsandprojects/eelgrass_mitigation_guidelines.pdf.

- The October 2009 FIG article of the month entitled "Spatial Planning and Climate Change Adaptation in Coastal Regions: The Case of Vietnam" recommends that spatial planning principles be adopted for the development and implementation of sustainable coastal adaptation policies to reduce the impacts of climate change:

http://www.fig.net/pub/monthly_articles/october_2009/october_2009_boateng.html

- The UK Government has produced an interactive map outlining some of the global impacts that may occur if the average temperature rises by 4°C above the pre- industrial climate average. The map focuses on the effects on water availability, agricultural productivity, extreme temperatures and drought, the risk of forest fire and sea level rise -

<http://www.actoncopenhagen.decc.gov.uk/en/ambition/evidence/4-degrees-map/>.

- Twenty years ago, from 14-18 November 1989, the Small States Conference on Sea Level Rise, held in Male, the Maldives, was one of the first international meetings addressing island concerns about climate change. The Conference papers and other documents are now available at:

<http://www.islandvulnerability.org/slr1989.html>.

- The "4th Workshop on Remote Sensing of the Coastal Zone" was held in June 2009 in Chania (Crete), Greece. The theme was Coasts and Climate Conflicts. Several of the Workshop presentations are available at: http://www.earsel.org/SIG-CZ/4th-workshop/WS_Coastal-Zones-2009-publications.htm.

- The "2009 California Climate Adaptation Strategy" summarizes the best known science on climate change impacts in seven specific sectors: Public Health; Biodiversity and Habitat; Ocean and Coastal Resources; Water Management; Agriculture; Forestry; and Transportation and Energy Infrastructure. It also provides recommendations on how to manage those threats -

<http://www.climatechange.ca.gov/adaptation/index.html>.

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<http://www.igu-ccs.org/>

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

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