REPORT OF THE COMMISSION ON COASTAL SYSTEMS (CCS) OF THE IGU – 2012 & 2013

A. Membership

2013 has been a year of renewal of part of the CCS steering committee, and we are very pleased and happy to welcome onboard Margarita Stancheva, who has been an active promoter of the CCS in the annual European Geophysical Union meetings in Vienna, Troels Aagaard, our extremely dynamic colleague in Denmark, and Abdel ElMrini and Raoul Laïbi, two young and very active scientists, respectively in Morocco and Benin, and who, we are sure, will contribute actively to the promotion of the CCS in Africa. Outgoing members were Darius Bartlett, Adoté Blivi, Helmut Brückner, and John Hsu.

Here is the full list of members of the steering committee:

- **Chair:** Prof. Edward J. Anthony, Aix-Marseille Université, CEREGE, UMR 34, Europôle Méditerranéen de l'Arbois, 13545 Aix en Provence Cedex 4, France. anthony@cerege.fr
- **Past Chair:** Prof. Douglas J. Sherman, School of Geosciences, Department of Geography, Texas A & M University College Station, Texas, U.S.A. sherman@geog.tamu.edu
- Vice-Chair: Prof. Colin Woodroffe, School of Earth and Environmental Sciences, University of Wollongong, Wollongong, NSW 2522, Australia. colin@uow.edu.au
- Secretary, Editor of Newsletter: Prof. Norbert P. Psuty, 74 Magruder Road, Institute of Marine and Coastal Sciences, Rutgers University, Highlands, NJ 07732, U.S.A. psuty@marine.rutgers.edu

Members

- Dr. Troel Aagaard, Associate Professor, Institute of Geography and Geology, University of Copenhagen, DK-1350 Copenhagen K, Denmark. taa@geo.ku.dk
- Dr. Françoise Breton, ETC/TE Deputy-Manager, European Topic Centre Terrestrial Environment, Universitat Autonoma de Barcelona, Edifici C Torre C5, 4a planta, E-08193 Bellaterra (Barcelona), Spain. Françoise.Breton@uab.cat
- Prof. Paolo Ciavola, Dipartimento di Scienze della Terra, Università di Ferrara, Via Saragat 1,
 44100 Ferrara, Italy. cvp@unife.it
- Dr. Abdel El Mrini, Abdelmalek Essaâdi University, P.O. Box 2121, Tetouan 93000, Morocco. aelmrini@gmail.com
- Dr. David R. Green, Centre for Marine and Coastal Zone Management, Department of Geography and Environment, College of Physical Sciences, University of Aberdeen, AB24 3UF, Scotland, UK. d.r.green@abdn.ac.uk
- Dr Derek Jackson, Centre for Coastal and Marine Research, School of Environmental Sciences, University of Ulster, Cromore Road, Coleraine Northern Ireland BT52 1SA, UK. d.jackson@ulster.ac.uk
- Dr. Antonio Henrique da F. Klein, Depto de Geociências/CFH/UFSC, Campus Universitario Trinidade Florianopolis, SC, Brazil CEP 88.040-970. klein@cfh.ufsc.br
- Dr. Raoul Laibi, Dépt de Géologie, Université d'Abomey-Calavi, Abomey-Calavi, Benin. raoulaibi@yahoo.fr
- Dr. Jeffrey Ollerhead, Dean of Science, Mt. Allison University, 65 York Street, Sackville, New Brunswick, Canada E4L 1E4. <u>jollerhe@mta.ca</u>

- Dr. Maragrita Stancheva, Senior Research Assistant, Department of Marine Geology and Archaeology, Institute of Oceanology, Bulgarian Academy of Sciences, P.O. box 152, Varna 9000, Bulgaria. stancheva@io-bas.bg
- Prof. Dr. Andreas Vött, Department of Geography, Universität zu Köln, Albertus-Magnus-Platz 50923 Köln/Cologne, Germany. andreas.voett@uni-koeln.de

Number of commission members in total and by country on December 1, 2013.

370 members from 65 countries

Alabanie: 1
Algeria: 1
Argentina: 5
Australia: 12
Azerbaijan: 1
Bangladesh: 2
Belgium: 23
Benin: 3
Brazil: 17
Bulgaria: 5
Canada: 16
Chile: 2
China: 9
Columbia: 1

Cuba: 1
Denmark: 3
Ecuador: 1
Egypt: 1
Estonia: 3
Finland: 3
France: 80

Côte d'Ivoire: 3

French Polynesia: 1

Gabon: 1 Georgia: 1 Germany: 14 Greece: 2 Hong Kong: 1 India: 4

Indonesia: 1 Iran: 1 Ireland: 7 Israel: 3 ITALY: 13 Japan: 5 Korea: 2 Malaysia: 1 Mexico: 1 Morroco: 4 New Zealand: 9 Mozambique: 1

Nigeria: 2 Norway: 2 Peru: 1

Peru: 1 Phillipines: 2 Poland: 3 Portugal: 15 Romania: 6 Russia: 5 Senegal: 1

Singapore: 1

South Africa: 6 Spain: 14 Surinam: 1 Sweden: 2 Switzerland: 1 Taiwan: 4

The Netherlands: 16

Togo: 1 Tunisia: 1 Turkey: 4 Ukraine: 1

United Kingdom: 28

U S A: 90 Uruguay: 1 Vietnam: 1 Yugoslavia: 1

B. Meetings

Two meetings were organized in 2012 and 2013 by the CCS

1. AUGUST 26-30, 2013. IGC Meeting, 'Down to Earth' IGU CONFERENCE, COLOGNE, GERMANY

Sessions convened by Edward Anthony and Norb Psuty and organized by the CCS

- 1. Beaches and Dunes
- 2. Rocky Coasts
- 3. Coastal Erosion and Management
- 4. Coastal Monitoring
- 5. Sea level Rise and Impacts

Total number of participants: 63
Total number of presentations: 48

2. AUGUST 4-9, 2013. IGU REGIONAL CONFERENCE, KYOTO, JAPAN

Session organized by the CCS

Coasts: learning from the past, planning for the future

- Names of the session convenors: Professor Masatomo Umitsu, Professor Yongqiang Zong, Dr Toru Tamura

I am still waiting for a report on this session from the convenors.

The session considered the lessons that can be learned from studying how coastal landforms, ecosystems and communities have changed in the past. It outlined the extent to which a better understanding of these coastal processes can inform assessments of future dangers and provide guidance for more sustainable coastal systems.

Meeting planned in 2014 to be organized by the CCS and convened by CCS Steering Committee member Dr. Françoise Breton.

IGU Regional Meeting, Krakow, Poland, 18-22 August 2014: "Management of the coast and sea in the Mediterranean basin and the Black Sea: outcomes of the FP7 PEGASO project as challenges for the 21st century".

C. Networking

- 1. The CCS has not undertaken collaborations over 2012-2013 with other IGU Commissions and Tas Forces, although there is a desire to do so. This should get organized during the next IGC Conference.
- 2. Several other meetings, not organized by the CCS, nevertheless acted as a forum for promoting the activities of the CCS. These are:
- 1. APRIL 7-12, 2013, VIENNA, AUSTRIA, EUROPEAN GEOSCIENCES UNION
- 2. APRIL 8-12, 2013. UNIVERSITY OF PLYMOUTH, UK, 12th INTERNATIONAL COASTAL SYMPOSIUM.
- 3. AUGUST 27-31, 2013. 8th IAG CONFERENCE, PARIS, FRANCE.
- 4. JUNE 16-18, 2013. INTERNATIONAL COASTAL ATLAS NETWORK, VICTORIA, BRITISH COLUMBIA, CANADA
- 5. JUNE 18-21, 2013. COASTGIS 2013, VICTORIA BRITISH COLUMBIA, CANADA

D. Publications

- a. Newsletters, special journal issues, and books published in 2012-2013 (please provide complete citations for all publications).
- b. The current accurate URL of the commission's web site.
- a. Two newsletters are published a year. A special issue of papers from the IGC Cologne 2012 meeting is presently in the stages of being completed in the Journal of Coastal Conservation.

The SI is entitled *Human-altered coastal systems: processes, monitoring and management.*It will comprise 8 papers from the meeting. The expected publication date is March 2014.

Theme and contributions of the Special Issue

The imperatives of economic development have constantly brought pressure to bear on coasts. In many countries throughout the world, the coast is increasingly destabilized by the construction of tourist infrastructure, routes and harbours. The lessons accumulated from the destabilization of coasts by massive development, commonly resulting in erosion and costly mitigation solutions, are commonly forgotten or deliberately ignored under the pressures of development. At the same time, increasing human occupation of the coastal zone is resulting in alterations of the coast and aggravating exposure of coastal communities to risks arising from high-energy events, global change and sea-level rise. The aim of this session is to bring together experiences on human-altered coasts, through case studies, from several countries that illustrate links between the physical and human dimensions of coasts that subtend the objectives and activities of the Commission on Coastal Systems of the International Geographical Union. The proposed papers address various aspects of coasts, such as the utility of a better understanding of the morphodynamic functioning of beaches and dunes to their management, and to anticipated effects of global change, lessons from storm impacts, GIS-based coastal observation, coastal video monitoring, sustainable coastal development, and working with nature in coastal defence. It is intended that the proposed papers will contribute to the corpus of research on human-altered coasts and to ways of mitigating coastal destabilization, in line with the objectives of the Journal of Coastal

SEE ATTACHED SHORTLIST OF CONTRIBUTIONS AND THEIR PUBLICATION STATUS AS OF DECEMBER 12, 2013.

b. The IGU Commission on Coastal Systems (CCS) web site is at:

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

E. Archival Contributions

The 2012 and 2013 newsletters are attached herewith.