



COMMISSION ON CLIMATOLOGY
2012 – 2013
report

A) MEMBERSHIP

1. CoC steering committee members:

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2. The number of commission members in total and by country as of 1 December 2013

TOTAL: 11 members in the Steering Committee.

One in each of the following countries: Poland, Sweden, Israel, Tunisia, Japan, Brazil,
Portugal, USA, Australia, Ukraine, Canada

HONORARY MEMBERS:

S. Gregory (U. K.), M. Yoshino (Japan), M. Domroes (Germany) and L. Nkendirim (Canada)

SENIOR MEMBERS:

A. Douguédroit (France), R. Brazdil (Czech Republic), T. Mikami (Japan).

Newsletters have been delivered to hundreds of climatologists by a mailing list (CLIMLIST) however it was decided to complete the list of corresponding members (everyone interested in cooperating in the frame of Commission). The data has still being collected and prepared.

B) MEETINGS

a. The meetings your commission organized in 2012-2013 with information on their locations, dates, and numbers of participants.

Commission on Climatology has been operating for international research cooperation and studies on the field of climatology. It promotes individual and group research work, encourage the exchange of relevant documents and information. The main stream of activities in 2012-2013 period was, on the point, focused on scientific information exchange. Internet has become the principal medium, due to which the cooperating members were able to share the results of leading-edge research.

Organized meetings:

IGU International Congress, Cologne, Germany, 26 - 30 August 2012

The CoC organized 5 Sessions (28-29 August) with 15 timeslots covering the topics:

- Climate change and variability in different spatial and temporal scales
- Weather and Climate Extremes
- Applied Climatology in 21 Century
- Potential Impacts of Climate Variability and Change on Agriculture
- Urban climates

During the sessions 55 presentations were given by scientists from 21 countries, representing Europe, Asia, North and South America, Australia and Oceania. The total number of sessions participants is difficult to estimate.

There was also a joint session CoC-IGU MRP: Climate change in the areas with Mediterranean climate: characteristics, mitigation and adaptation organized/announced but due to the small number of participants interested as well as some personal problems it was finally cancelled.

Steering Committee meeting – Cologne, Germany, 29.08.2012

During the IGU Congress Steering Committee meeting took place. It was attended by 5 full members as well as 5 observers. The general theme of the meeting were the Commission activities planned for 2013 and 2014 (e.g. IGU Regional Conference in Japan and in Poland).

IGU Regional Conference – Kyoto, 4-9 August 2013

In IGU Kyoto Regional Conference, held at Kyoto International Conference Center, Japan from August 4 to 9, 2013. Three commission sessions were organized with twelve slots:

- ✓ Climatic change and variability in different spatial and temporal scales (13 presentations)
- ✓ Urban climate (12 presentations)
- ✓ Past, present and future changes of Asian and Australian monsoon and their impact on nature and society (11 presentations)



1. Session CS04-3 on August 6, 2013

In addition, two joint sessions with the Commission on Hazard and Risk, and the Commission on Water Sustainability were organized:

- ✓ Water resources and climate change (Joint session with the Commission on Water Sustainability)
- ✓ Climate-related risk and hazard in the 21st century (Joint session with the Commission on Hazard and Risk)

Furthermore, two general sessions were under the auspices of CoC: Climatology (7 presentations) and Water resources (4 presentations). In addition, 11 posters were presented in 113 Climatology, one poster in 114 Meteorology and in 115 Hydrology, respectively.



2. Prof. Masatoshi Yoshino & Prof. Jun Matsumoto

Unfortunately except for Jun Matsumoto from Tokyo Metropolitan University, JAMSTEC/RIGC, Japan no other commission members attended from abroad. It should also be noted that Prof. Masatoshi Yoshino, the founder of our commission and the former vice president of IGU, and Prof. Takehiko Mikami, the former commission member from Japan, gave their presentations in CoC sessions.

- b. A brief summary of the questions addressed at each meeting and the findings or conclusions resulting from the discussions. Please highlight the new ideas and insights identified at each meeting and their immediate and long-term theoretical and practical implications.**

Steering Committee meeting – Cologne, Germany, 29.08.2012

The general themes of the meeting were:

- (1) the Commission current organizational details (membership, etc.)
- (2) activities planned for 2013-2014: a) mid-year activities, b) conferences, c) publications

(1) The Commission does not have any particular member-list. It has been working with the steering committee as the only Commission <Body> however lots of climatologists and environmental as well as urban and human studies scientists are cooperating. The list of corresponding members (everyone interested in cooperating in the frame of Commission) has been completed via CLIMLIST mailing group. It was also decided that Commission needs representatives from Africa (except Latifa Henia) and also precisely from China. Africa being a developing region is an important research scope (climatic change issues due to inhabitation, agriculture – famine, water resources, industry, etc.), Chinese brainpower seems to be more and more influential and also well financed (numbers of research groups, publications, editorial boards members, scientific journals, etc.)

(2) a) It was noted that due to many obligations mid-year CoC activities leave much to be desired; however, climatology is the basis also for other commissions so there is a point in collaboration, CoC could contribute to the work of other commissions (→ joint sessions at Kyoto Regional Conference), b) Kyoto Regional Conference 2013 - prof. Matsumoto (the CoC SC member) responsible for climatology sessions, Kraków Regional Conference 2014 – prof. Ustrnul (the chair of CoC) responsible for climatology sessions c) after Cologne Congress there was planned to publish a book of climate change and variability in different spatial and temporal scale but it is needed to look for other publication possibilities

c. The meetings or other events you plan to hold in 2014 or later years, including locations, dates, and the topics to be addressed

IGU Regional Conference

9 sessions covering broad range of topics are arranged by Commission on Climatology during the 2014 IGU Regional Conference which will be held in Kraków, Poland, 18-22 August, 2014:

- Climate change and variability in different spatial and temporal scales
- Weather and climate extremes
- Historical climatology
- Climate modeling and scenarios
- Polar and mountain climates
- Urban climates
- Atmospheric circulation in different scales
- GIS and remote sensing in atmospheric sciences
- Climate change impacts and vulnerability

The Steering Committee business meeting is planned in Kraków as many SC Members have confirmed participation in the Conference.

XI – SBCG / Brazilian Climatology Symposium (under the auspices of IGU – Commission on Climatology) Climate change and variability: state of the art and perspectives for interaction-nature society: Curitiba / Brazil – 14 to 17/10/2014

Topics:

- Theoretical and methodological advances in the study of climate
- Qualitative and quantitative modeling in climatology
- Risks, vulnerabilities and resilience associated with climate
- Applied Climatology: urban climate, agroclimatology, health, etc..
- Climatology and teaching
- Tropical climatology

3. NETWORKING

A. Ways your commission has collaborated with other IGU Commissions and Task Forces during 2012-2013.

Two joint sessions with the Commission on Hazard and Risk, and the Commission on Water Sustainability were organized during IGU Regional Conference – Kyoto, 4-9 August 2013

- ✓ On August 6, CS40-1 Water resources and climate change (Joint session with the Commission on Water Sustainability), one slot with two presentations chaired by Claudio Cassardo of Univ. of Torino.
- ✓ On August 7, CS18 16-17 Climate-related risk and hazard in the 21st century (Joint session with the Commission on Hazard and Risk), two slots with 6 presentations, chaired by Jun Matsumoto of Tokyo Metropolitan University.

B. Collaboration with other international, intergovernmental, and inter- and multi-disciplinary groups in 2012-2013.

C. Cooperative efforts with ISSC (International Social Science Council) and with ICSU (the International Council for Science) programs.

4. PUBLICATIONS

A. Newsletters, special journal issues, and books published in 2012-2013 (please provide complete citations for all publications).

NEWSLETTER 13 (June 2012)

NEWSLETTER 14 (December 2012)

NEWSLETTER 15 (May 2013)

NEWSLETTER 16 (December 2013)

It was decided that the best way for disseminating information was the electronic one, even in developing countries where, if colleagues do not own private computers, all the universities have a website. Hard copy mailing was stopped. The existing lists as CLIMLIST is used to send around the Newsletters. We can be sure that the CoC Newsletters are provided to a great number of geography climatologists.

C. The URL of the commission's web site.

CoC website: <http://www.klimat.geo.uj.edu.pl/CoC.htm>

5. ARCHIVAL CONTRIBUTIONS

All newsletters (since 2005) are available at the website