

## **Agenda**

### **Enhancing observations to support preparedness and adaptation in a changing climate – Learning from the IPCC 5<sup>th</sup> Assessment Report**

- Workshop by GCOS in collaboration with IPCC and UNFCCC -

**10-12 February 2015**

UNFCCC Secretariat

Bonn, Germany

The 3-day workshop, organized by GCOS in collaboration with IPCC and UNFCCC, will consider the observational and research needs for adaptation to climate variability and change. It aims to enhance systematic observations and related capacity, especially in developing countries, in light of the detection of observed impacts, exposure and vulnerability to climate change, and in support of assessing the risks of climate change and adaptation planning. It therefore aims to further support the work on research and systematic observation under the Subsidiary Body for Scientific and Technological Advice (SBSTA), and that of adaptation under the UNFCCC at large. The workshop will build on the findings of the WG II report to the IPCC AR5, and of identified strategic technical guidance from the GCOS Workshop on 'Observations for Adaptation to Climate Variability and Change'. The event will address observational needs in a number of sectors, currently in the focus of evolving climate services, such as on analysis needs for water, agriculture and food security, disaster risk reduction, and health.

Specific workshop goals include:

1. Assessing the key findings and recommendations of the IPCC in the context of data availability to inform implementation of adaptation planning and strategies.
2. Defining of the core sets of data, data characteristics, and information technologies needed to maintain the minimum acceptable level of stewardship in the management of resources and infrastructure.
3. Characterizing the climate data needs of the key sectors including the financial services and development sectors.
4. Assessing the adequacy of national and regional networks and records for detection of climate trends to inform global, regional and national assessments of climate change and for developing regional and national climate risk profiles.
5. Identifying paths for addressing institutional and local capacities (including NHMS) needed to observe, monitor, rescue, archive and process and sustain climate data and networks.

## Enhancing observations to support preparedness and adaptation in a changing climate – Learning from the IPCC 5<sup>th</sup> Assessment Report

**DAY 1**

**Tuesday, 10 February 2015**

08:00 to 09:00 **Registration of Participants**

09:00 to 09:45 **Welcome**

Opening and Welcome Remarks

- *Stephen Briggs, GCOS Steering Committee Chair*
- *Tomasz Chruszczow, SBSTA Chair*

09:45 to 12:30 **Session 1. (Facilitators: Stephen Briggs, GCOS Steering Committee Chair and Tomasz Chruszczow, SBSTA Chair)**

Brief Introduction to the GCOS Programme  
*Stephen Briggs, GCOS*

**Workshop Goal 1 – “Assessing the key findings and recommendations of the IPCC in the context of data availability to inform implementation of adaptation strategies”**

Introductory Talk: Outcomes of the ‘GCOS Workshop on Observations for Adaptation to Climate Variability and Change’, held in February 2013 in Offenbach, Germany  
*Carolin Richter, Director, GCOS Secretariat*

Coffee 10:30

Introductory Talk: IPCC WG I reporting on the outcome of the IPCC/WCRP Workshop of WG I AR5 findings “Research Needs on Observations – focusing on WCRP’s Grand Challenges”, held in September 2014 in Bern, Switzerland  
*Gian-Kasper Plattner, Science Director, IPCC WGI Technical Support Unit*

Introductory Talk: Summary/overview on identified observational needs from AR5 WG I  
*Konrad Steffen, Lead Author, IPCC WG I AR5 Chapter 4, and Chair, GCOS Terrestrial Observation Panel for Climate (TOPC)*

Introductory Talk: IPCC AR5 WG II, Chapter 18 Detection and Attribution of Observed Impacts  
*Gerrit Hansen, Chapter Scientist, IPCC WG II AR5 Chapter 18*

**Discussion**

12:30 to 14:00 **Lunch**

14:00 to 18:00 **Session 2** (Facilitators: Ken Holmlund, Chair, GCOS Atmospheric Observation Panel for Climate (AOPC), and Albert Klein-Tank, Vice Chair GCOS AOPC and Coordinating Lead Author, IPCC WG1 AR5 Chapter 2)

**Workshop Goal 2 – “Defining the core sets of data, data characteristics, and information technologies needed to maintain the minimum acceptable level of stewardship in the management of resources and infrastructure.”**

Talk 1: Introductory Talk on Essential Climate Variables and the GCOS assessment process, by *Adrian Simmons, Lead for the GCOS Status Report*

Talk 2: Overview Talk on activities in regard to GEO SBA Climate, and GEO Data Sharing/Management Principles  
*Barbara Ryan, Director, GEO Secretariat*

Coffee 15:30

Expert Talks:

- New needs in observing technologies:

Ocean and acidification

*Hans-O. Pörtner, Coordinating Lead Author, IPCC WG II AR5 Chapter 6*

Land

*Martin Herold, Global Observation for Forest Cover and Land Dynamics (GOF-C-GOLD)*

- Needs in data quality, data access, stewardship, etc

*John Bates, Chair, Committee on Earth Observations (CEOS)-Coordinating Group for Meteorological Satellites (CGMS) Joint Working Group on Climate*

**Discussion (led by Session Facilitators)**

Identification of possible research gaps in IPCC report, etc.

19:00

**Social gathering (non-hosted)**

Brauhaus Bönnsch, Bonn

**DAY 2**

**Wednesday, 11 February 2015**

**Sectoral Needs (building on the four GFCS key priority areas water, agriculture and food security, disaster risk reduction, and health)**

09:00 to 13:00 **Session 3.** (Facilitators: Gerhard Adrian, GFCS Management Committee, and Carolin Richter, Director, GCOS Secretariat)

**Workshop Goal 3 – “Characterizing the climate data needs of the four identified key sectors, including the needs for the financial and/or development sectors.”**

**Brief Introduction:** Global Framework for Climate Services  
Gerhard Adrian, GFCS Management Committee

Introductory Talk 1: Summary/overview on observational needs for different regions  
Bruce Hewitson, Coordinating Lead Author, IPCC WG II AR5 Chapter 21

Coffee 10:30

Introductory Talk 2: Summary on the IPCC Special Report on extreme events  
Roger Pulwarty, Coordinating Lead Author, IPCC Special Report on Extreme Events

Sector-related Talks

- Fresh water/water resources/terrestrial and inland water,  
*To be confirmed*
- Food Security and Production  
*Heike Bach, Vista GmbH*
- How climate information is helping food insecure populations to build resilience through a comprehensive approach  
*Tania Osejo Carrillo, World Food Programme*
- Disaster risk reduction  
*Joern Birkmann, IPCC WG II Lead Author, IPCC WG II AR5 Chapter 19*
- Health issues  
*Bettina Menne, World Health Organization (WHO)*

Economic sector Talks

- Risky Business – Observational Needs  
*Christos Mitos, Risk Management Solutions*
- Economics of Adaptation - Opportunities and needs  
*Reinhard Mechler, Lead Author, IPCC WG II AR5 Chapter 17*

**Discussion**

13:00 to 14:30 **Lunch**

**Systematic observation in support of adaptation strategies across climate time scales**

14:30 to 18:00 **Session 4.** (Facilitators: Stefan Roesner, SBSTA representative, and Florin Vladu UNFCCC secretariat)

**Workshop Goal 4 – “Assessing the adequacy of national and regional networks and records for detection of climate trends to inform global, regional and national assessments of climate change and for developing regional and national climate risk profiles.”**

**Adaptation Strategies across climate timescales**

Coffee 15:30

- Adaptation planning and implementation  
*Roger Pulwarty, Coordinating Lead Author, IPCC WGII AR5 Chapter 15*
- Information needs in the DRR management community  
*Joern Birkmann, Lead Author, IPCC WGII AR Chapter 19*
- Future Earth – Observational needs  
*Mario Hernandez, Future Earth*

**Discussion (fundamentals/benefit of GCOS)**

**DAY 3** **Thursday, 12 February 2015**

09:00 to 12:00 **Continuation of Session 4. (Facilitators: Stefan Roesner and Florin Vladu)**

**Party perspectives focusing on national and regional needs for enhancing climate observations in support of assessment and implementation of adaptation and national climate risk profiles**

Coffee 10:30 Expert talks from Parties  
Brazil, China, European Commission, Germany, Norway, Mali, Russian Federation, Solomon Islands

**Introduction to relevant UNFCCC work**

Expert Talk 1: Needs for data and climate observations emerging in support of the NAPs and the work of the LEG  
*Abias Huongo, Vice-Chair, LCD Expert Group*

Expert Talk 2: Linkages between systematic observation and the work of the Adaptation Committee  
*Klaus Radunsky, Adaptation Committee*

Expert Talk 3: Linkages between systematic observation and the work of the Executive Committees on Loss and Damage  
*Miwa Kato, UNFCCC Secretariat*

**Discussion (fundamentals/benefit of GCOS)**

12:00 to 13:30 **Lunch**

**Organizational perspectives and the way forward**

13:00 to 16:00 **Session 5. (Facilitators: Carlos Martin Novella, IPCC Deputy Secretary, Stephen Briggs GCOS Steering Committee Chair, and Stefan Roesner, SBSTA representative)**

**Workshop Goal 5 – “Identifying paths for addressing institutional and local capacities (including NMHSs) needed to observe, monitor, rescue, archive and process and sustain climate networks.”**

**Discussion:** Toward Smart Practices  
*Ed Harrison and Roger Pulwarty, GCOS Steering Committee Members*

Using observations, reanalyses and projections to inform thinking about and decision-making for adaptation issues involves many choices. Based on the work that has been done so far, we'd like to foster a conversation among interested parties about some recommended approaches. This group discussion will seek to identify some areas of agreement for which draft best practices might be developed, and propose steps to take such efforts forward.

**Summary of main findings of the workshop**

16:00 **Closure of the Workshop**