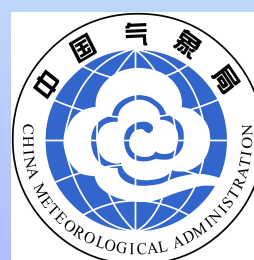


International Workshop on Climate Data Requirements and Applications

**Progressing on Data Management Tools
and Data Rescue in support of Climate
Change Assessment and the Global
Framework for Climate Services**

4-8 March 2013 - Nanjing, China



Objectives

Recognizing the need for coordination, the World Meteorological Organization (WMO) with partners established a framework to encourage a more comprehensive and user-oriented approach to climate services development. In this regards a Global Framework for Climate Services (GFCS) was decided at the World Climate Conference-3 (WCC-3) in 2009, formally approved at the WMO Sixteenth Congress in 2011 and launched at the WMO Extra-Ordinary Congress in 2012 with an approved implementation plan. The Framework promotes a user-centered approach to the use of relevant science-based climate information and prediction for practical applications throughout the world.

Many countries in the world, in particular in developing countries are not fully prepared to provide their citizens all the climate services this framework is calling for. In particular, the availability of climate data in the required quality and timeliness is a major limitation in providing these services. Therefore, in order to help improve those countries' NMHSs ability to provide climate data related services, a workshop is proposed that will focus on crucial fundamental data management aspects relevant to data availability, such as data rescue, quality control, real-time availability, data exchange and collaboration with neighboring countries. In addition the Workshop will provide a state of the art application of climate data in producing climate indices that are useful for long term climate variability and climate change assessment in support of climate adaptation and services.

Structure of the Workshop

Part-A Two-days covering climate data requirements, i.e, Climate Data Management Systems (CDMSs), Data Rescue (DARE), metadata and data exchange, climate data sets and monitoring products.

Part-B A three-day covering a series of lectures and hands-on practical activities on applying climate data for assessing climate extremes based on methodologies and guidelines developed by the CCL/WCRP-Clivar/JCOMM Expert Team on Climate Change Detection and Indices (ETCCDI).

Expected Outcomes

This workshop will set a foundation for responding to a set of key climate data requirements as stipulated by the WMO Congress Resolution on Climate Data Requirements (Res.16 CG-XVI, 2011), and the GFCS implementation plan which was approved by the extra-ordinary congress in October 2012. The Commission for Climatology Management Group which met in Denver,USA in October 2011 highlighted the need to address climate data requirements in a holistic approach in order to achieve a high quality global data management system for climate which was recommended by the Commission for Climatology during its fifteenth session in February 2012, Antalya, Turkey. The Workshop will provide an open platform for discussions and sharing experience and knowledge regionally and internationally on high priority data issues, including Climate Data Management, Climate Data Rescue, Data Quality and Data exchange and climate data sets and monitoring. The workshop will provide also participants from RAI a special training seminar on climate indices. The training will use the approach and software developed by the CCL/Clivar/JCOMM Expert Team on Climate Change Detection and Indices (ETCCDI). The training seminar is expected to lead to a better understanding of the data demand for enhanced

climate services based on sharing the experience in data analysis, quality control and homogenization of climate data with leading experts from advanced global and regional climate institution., Expected outcomes includes as well strengthening collaboration among countries in RA-II and worldwide to work collectively for improving quality, availability and exchange of climate data, thereby supporting the development of high quality climate services as stipulated in the recently approved GFCS implementation plan.

Venue and Dates

The Workshop will be hosted by the WMO Regional Training Centre, Nanjing, China, 4-8 March 2013

Co-sponsors

The Workshop is jointly funded by China Meteorological Administration and WMO and locally co-organized by Beijing Climate Center (BCC), the National Meteorological Information Center (NMIC) and the WMO Regional Training Center Nanjing. It is co-sponsored by the WMO Commission for Climatology Open Panel on Climate Data Management and the Expert Team on Climate Change Detection and Indices (ETCCDI), which is co-sponsored by the WMO Technical Commission for Climatology (CCI), the World Climate Research Programme Clivar project, and the Joint WMO-IOC Technical Commission for Oceanography and Marine Meteorology (JCOMM).

The Beijing Climate Center (BCC) is an important WMO Regional Climate Center (RCC) within RAI. It also incorporates the WMO East Asian Monsoon Activity Center (EAMAC) as well as the Global Producing Center for Long Range Forecasts (GPC) and the Center for Extreme Events Monitoring in Asia (CEEMA). As a WMO RCC, the BCC has made significant progress in operational long-range forecasts, climate monitoring, data services, use of regional climate products and training on service delivery, research on climate and climate change as well as capacity building. It not only organizes and coordinates research efforts on regional climate and climate predictions, but also deliver climate services to the neighboring and surrounding countries in Asia and the international climate community. So far, the BCC provides more than 20 operational products on climate and climate change to WMO members, which helps them carry out climate services. Currently, the BCC is actively expanding and improving its skills in delivery of climate information and services, following the concept of the Global Framework for Climate Services (GFCS).

The National Meteorological Information Center (NMIC), as a national and regional communication center in Asia, undertakes responsibilities for global and national real-time meteorological data collection and storage, international real-time meteorological data exchange, distribution of various meteorological data and forecast products, and real-time meteorological data share services.

Participants

It is expected that 30-40 participants and Experts from the NMHSs in WMO Region-II of Asia and other Regions will attend the workshop as follows:

- Delegates from NHMSs of RAI countries
- Delegates from CMA and other institutions of China
- Delegates from other regions
- International experts including Thomas C. Peterson, President of the Commission for Climatology, NOAA, USA
- Several Experts from the WMO Commission for Climatology Panels and Expert Teams,
- Experts from the CCI/WCRP-Clivar/JCOMM Expert Team on Climate Change Detection and Indices (ETCCDI),
- Expert from Tokyo Climate Centre (TCC), JMA, Japan,
- Experts from Met Office Hadley Centre, UK,
- Experts from the Bureau of Meteorology, Australia,
- Representative of CIIFEN, Guayaquil, Ecuador ,
- Representative of ACMAD, Niamey, Niger
- Experts from China will be mainly from BCC, NMIC and Chinese Academy of Science (CAS).

International Organizing Committee (IOC)

- Meiyang Jiao, Deputy Administrator of CMA
- Wenjian Zhang, Director of Observing and Information System Department, WMO
- SONG Lianchun, Director-general, Beijing Climate Center, CMA
- William Wright, Co-chair of CCI OPAE I;
- Albert Klein Tank, Co-Lead of ETCCDI (CCI)
- Xuebin Zhang, Co-Lead of ETCCDI (WCRP-Clivar)
- Aryan Van Engelen, KNMI, Programme Manager ECSN
- ZHAO Licheng, Director-general, National Meteorological Information Center, CMA

The IOC members will guide the organization of the meeting and workshop Agenda, convene relevant workshop sessions, and contact the relevant experts.

Financial Support

For the participants from WMO RA-II developing countries and countries with economies in transition, travel support will be provided by CMA. Accommodation and meals during the meetings for all participants will be arranged and covered by CMA.

Limited funding will be provided by WMO to cover travel and accommodation for Lecturers and participants from developing countries coming from other regions. Other costs, such as visa fees, transit expenses as well as the insurances, should be borne by the participants themselves or their respective governments.

Contact Person

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National Meteorological Information Center

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WMO Regional Training Centre Nanjing