

# **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**

## **Agenda**



## **Program of the Workshop**

Venue: 1st floor of WMO Regional Training Center (RTC) building at NUIST

### **DAY-1: Monday 4 March 2013**

08:30 Registration

#### Opening

Chair: Dr. Licheng Zhao, Director-General of National Meteorological Information Center, CMA

09:00 Welcome address by Prof. Lianshui Li, Director of WMO RTC Nanjing and President of NUIST

09:10 Address by Dr. Wenjian Zhang, Director of Observing and Information Systems Department, WMO

09:15 Address by Dr. Thomas C. Peterson, President of the Commission for Climatology, NOAA

09:20 Welcome address by Representative of CMA

09:30 Introductions around the room

10:00 Objectives of the workshop and schedule, Dr Lianchun Song, Director General of Beijing Climate Center, CMA

10:20 Break and Group Photo

### ***PART A Climate Issues and Related Data Requirements***

#### **Session 1.A: Global and Regional Climate Issues**

Chair: William Wright

10:50 The role of climate data and information in decision making; Tom Peterson, President of CCI, NOAA-NCDC, USA

11:10 RAI contribution to GFCS through regional climate services in BCC, Lianchun Song, CMA, China

11:30 WMO Observing Systems and Co-sponsored programmes in support of the GFCS; Wenjian Zhang, WMO

11:50 Climate Data Requirements for Global Circulation Models; Kenji Kamiguchi, JMA, Japan

12:10 Development of homogenized data sets in China and the possible contributions to global/regional products; Qingxiang Li, CMA

12:30 Questions and discussion

12:50 Lunch

#### ***Session 2.A: Climate Data Management and Monitoring***

Chair: Tom Peterson

14:00 WMO activities relevant to climate data and monitoring; Omar Baddour, WMO

14:20 Quality control and Quality Assurance; William Wright, BoM, Australia

14:50 State of the climate observations in Russia: Analysis of the network quality and data gaps; Oleg Anissimov

15:10 The Role of BCC in Climate Data Management and Climate Monitoring; Yuyu Ren, BCC

15:30 The role of TCC in Climate Data Management and Climate Monitoring; Yoshimatsu, TCC

15:50 Data acquisition and encoding; Samuel Machua, KMD, Kenya

16:10 Break

16:30 Climate Data Management tools; Denis Stuber, Meteo France

16:50 Climate Monitoring products and data sets generation; John Kennedy, Met Office, UK  
17:10 Discussion  
17:30 Adjourn

## **DAY-2: Tuesday, 5 March 2013**

### ***Session 3.A : Climate Data Rescue: Global, regional and national perspectives***

Chair: Anyuan Xiong

08:30 DARE: An end to end approach; Joseph Kimani, CCI, KMD, Kenya  
08:45 Experience of IEDRO and NCDC; Richard Crouthamel, IEDRO, USA  
09:00 ACRE project; Rob Allan, ACRE, UK  
09:15 Experience of China in Data Rescue; Zijiang Zhou, CMA  
09:30 Experience of ACMAD in Data Rescue and Management; Andre Kamga, ACMAD  
09:45 Climate Data Requirements for risk management and adaptation, CIIFEN perspective; Rodney Martinez, CIIFEN  
10:00 Break  
10:20 Experience of Australia and South Pacific in Data Rescue and Management; William Wright, BoM, Australia  
10:35 Experience of ECA&D in Data Rescue and Management; Aryan Van Engelen, KNMI, Netherlands  
10:50 Country presentations (Representatives of each participating country will provide a **8 to 10 minutes** presentation on the status of Data Management and Data Rescue and related challenges and projects at country level.)  
13:00 Lunch

### ***Session 3.A continued***

14:30 ***Panel Discussions:*** Towards a global data management system for climate, addressing gaps and building on existing infrastructure.  
Moderator: Tom Peterson

**17:00 Dinner**

### ***PART B Analysis of Climate extremes and indices***

This part will be led by ETCCDI experts: Tom Peterson, Xuebin Zhang, Albert K. Tank, Enric Aguilar

## **DAY-3: Wednesday, 6 March 2013**

### ***Session 1.B: Analysis of climate data and extremes***

Chair: Xuebin Zhang

09:00 Key note: International Collaboration on Climate Indices (Tom Peterson)  
09:20 Introduction to quality control of daily climate data (Tom Peterson)  
09:40 Quality control using RCLimdex (Enric Aguilar)  
10:30 Break  
10:50 Participants start to work on their data using RCLimdex  
12:00 Questions and Discussion (Enric Aguilar)  
12:30 Lunch

### ***Section 1.B continued***

- 14:00 Lecture on Climate data homogenization: techniques available, why using RHTestv3, station history to confirm detected shifts, etc. (Enric Aguilar)
- 14:20 Detection of shifts using RHTestV3 (Enric Aguilar)
- 15:00 Break
- 15:20 Participants continue work on their data
- 17:20 Questions and discussion (Enric Aguilar)

### **DAY-4: Thursday, 7 March 2013**

#### ***Session 1.B Continued***

Chair: Albert K. Tank

- 9:00 Lecture on the influence of non-climatic shifts on assessing climate trends (Xuebin Zhang)
- 9:20 Adjustments of non-climatic shifts using RHtestV3 (Xuebin Zhang)
- 9:40 Participants start to work on their data using RHTestV3 (Xuebin Zhang)
- 10:30 Break
- 10:50 Participants continue to work on their data
- 12:00 Plenary discussion and wrap up (Xuebin Zhang)

#### ***Session 2.B: Indices derived from daily climate data***

Chair: Tom Peterson

- 14:00 Lecture on the technique of climate indices, definition, purpose and use (Albert K. Tank)
- 14:20 Calculating climate indices using RCLimdex (Albert K. Tank)
- 14:40 Participants start to work on their data using RCLimdex
- 15:00 Break
- 15:20 Participants continue work on their data
- 16:20 Questions and discussion (Albert K. Tank)
- 16:40 Report on previous workshops in other regions (Albert K. Tank)
- 17:00 Trends in climate indices (Albert K. Tank)

### **DAY 5 Friday, 8 March 2013**

#### ***Session 2.B: continued***

Chair: Enric Aguilar

- 08:30 Country representatives will present the results of their analyses including quality control, homogenization and trends in indices
- 10:40 Break
- 11:00 Participants continue to present their results
- 13:30 Lunch

#### ***Session 3.B: Next Steps and Conclusion***

Chair: Tom Peterson

- 14:30 Post-workshop paper, sharing data, etc. (Albert K. Tank)
- 14:50 Open Discussion (Albert K. Tank)
- 15:10 Workshop conclusions and recommendations (Albert K. Tank)
- 15:20 Workshop ends

## Contact Person

Mr. SUN Yuan  
Local Secretariat of the Workshop  
Beijing Climate Centre, CMA  
46 Zhongguancun Nandajie  
Beijing 100081, China  
Telephone: +86-10-58993467  
Fax: +86-10-62179859  
E-mail: sunyuan@cma.gov.cn

## WMO coordination Office:

Observing and Information Systems Department  
WMO Information System Branch  
Data Management Applications Division

- Omar Baddour, Chief Division: [Obaddour@wmo.int](mailto:Obaddour@wmo.int)
- Karolin Eichler, Junior Professional Officer: [Keichler@wmo.int](mailto:Keichler@wmo.int)
- Josefa Potter-Branco (Pepi), Administrative support: [Jpotter-branco@wmo.int](mailto:Jpotter-branco@wmo.int)

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