



International workshop on remote sensing and eco-hydrology in arid regions in September 16-20, 2013, Beijing, China

(First Circular)

International workshop on remote sensing and eco-hydrology in arid regions, within the Asian G-WADI/IHP framework, will be held in September 16-20, 2013 in the Institute of Atmospheric Physics, Chinese Academy of Sciences, Beijing, China. This workshop is co-sponsored by United Nations Educational, Scientific and Culture Organization (UNESCO), Monsoon Asia Integrated Regional Study (MAIRS), Chinese Academy of Science (CAS), National Natural Science Foundation of China (NSFC), Cold and Arid Regions Environmental and Engineering Research Institute (CAREERI), and Institute of Atmospheric Physics (IAP), CAS.

Water resources are precious in arid regions and severe water scarcity is the principle factor that constrains the development of local economy and deteriorates local ecology conditions. Globally, arid and semi-arid areas face the greatest pressures to deliver and manage freshwater resources. It has been estimated that by the 1990s 40% of the world's population were suffering from serious water shortages and this is set to increase, with two-thirds of the population living under water stress by 2025.

In wake of the importance of limited water resources in maintaining ecological balance and assuring sustainable socio-economic development and the increasing conflicts of water demands between social sectors and river reaches, it demands an integrated river basin management to coordinate water uses. As in arid regions, the runoff generation and evapotranspiration consumes are strongly related to ecological processes such as vegetation spatial variations and structural dynamics, it is critical to understand the inherent laws of eco-hydrological processes, quantitatively formulating the formation and consumption of water resources. For this purpose, a traditional hydrological model shall integrate ecological components and take advantage of new data sources and techniques such as remote sensing, in order to improve its predictable accuracy.

## 2. Objectives

This workshop aims to strengthen the global capacity to manage the water resources of arid and semi-arid areas. Its primary goal is to communicate and exchange the successful experiences on the application of remote sensing for water management and the study of eco-hydrology in arid regions.

Specific objectives include:

- improved understanding of the special characteristics of hydrological systems and water management needs in arid areas
- capacity building of individuals and institutions, matching supply with need
- broad dissemination of understanding of water in arid zones to the user community and the public
- sharing data and exchanging experience to support research and sound water management
- raising awareness of advanced technologies for data provision, data assimilation, and system analysis
- promoting integrated basin management and the use of appropriate decision support tools.

## 3. Main Topics

- Satellite remote sensing data and programme
- Remote sensing applications to eco-hydrology in arid regions
- Integrated study of ecological and hydrological processes in inland river basins
- Ecological security, water resource sustainable utilization and integrated river basin management in arid regions

Scientists, managers, students as well as representatives of governments, media and funding organizations, who have researched or are interested in hydrology, ecology and sociology for arid and semi-arid regions are invited to the workshop to share research results and to discuss sustainable development in arid region. The official language of the symposium will be English.

## 4. Sponsors

United Nations Educational, Scientific and Cultural Organization (UNESCO)

Monsoon Asia Integrated Regional Study (MAIRS)

Chinese Academy of Sciences (CAS)

National Natural Science Foundation of China (NSFC)

Cold and Arid Regions Environmental and Engineering Research Institute (CAREERI), CAS

Institute of Atmospheric Physics (IAP), CAS

## 5. Committee and secretary

### *Scientific Advisory Committee*

#### **Chair**

Guodong Cheng

Cold and Arid Regions Environmental and Engineering Research Institute,  
CAS

**Member**

Bojie Fu	Research Center for Eco-Environmental Sciences, CAS
Huadong Guo	Institute of Remote Sensing and Digital Earth, CAS
Soroosh Sorooshian	University of California, American
Abdin Salih	University of Khartoum, Sudan
Ramasamy Jayakumar	United Nations Educational, Scientific and Cultural Organization
Wolfgang Kinzelbach	Institute of Environmental Engineering, ETH Zurich

***Organization Committee*****Chairman**

Xin Li	Cold and Arid Regions Environmental and Engineering Research Institute, CAS
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**Member**

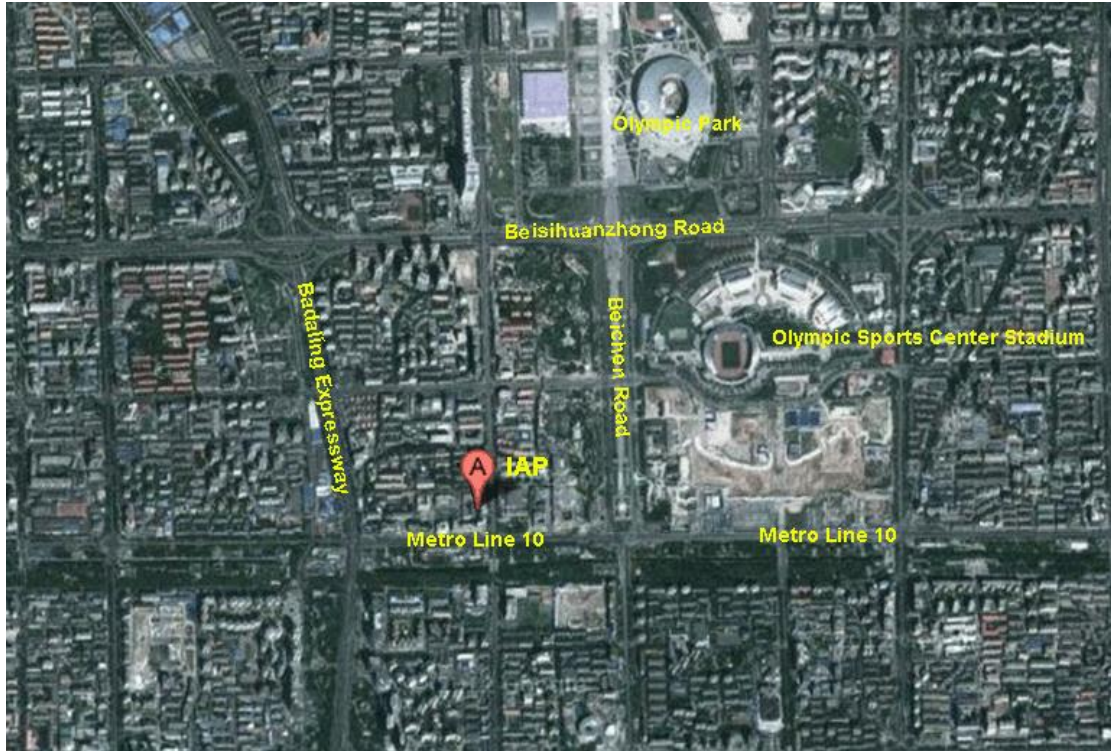
Zhuotong Nan	Cold and Arid Regions Environmental and Engineering Research Institute, CAS
Borjiginte Ailikun	Institute of Atmospheric Physics (IAP), CAS
Jian Wang	Cold and Arid Regions Environmental and Engineering Research Institute, CAS
Ling Lu	Cold and Arid Regions Environmental and Engineering Research Institute, CAS

***Secretary***

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**6. Venue**

Institute of Atmospheric Physics, Chinese Academy of Sciences, Beijing, China



## 7. Accommodation

Local organizers will help to reserve hotel rooms for each participant.

# Registration Form

## 1) Registration Fee

Free for invited experts and invited G-WADI/IHP participants.

The registration fee is 800 RMB for other participants limited to 60 persons. Pay at conference registration desk.

## 2) Workshop Language

English is the working language.

## 3) Registration Form \*(required):

- Name:
- Gender:
- Age:
- Nationality:
- Passport NO.:Date of issue:Date of expiry:
- Field of expertise /Specialization:
- Current affiliation /Institution:
- Email:
- Telephone:
- Fax:
- Address:
- Post code:

## IMPORTANT

Please complete the registration form at <http://asian-gwadi.westgis.ac.cn/workshop-2013-bj/>, together with

- Your CV in English
- A copy of Passport (for visa application)

The deadline for registration who do not need entry visa is **31 July 2013**. However, for people who need entry visa, please register the workshop at your earliest convenience. The visa documentation procedure may take as long as two-three months.

## 4) Point of Contact

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