

# International Workshop on Geographic Conditions Monitoring (IWGCM)



## First Announcement

Beijing, China, October 25, 2014

### Workshop Chairman:

Prof. Zhang Jixian (President of CASM)

### Co-chairman:

Ms. Wu Lan (Vice president of CASM)

Prof. Liu Jiping (Vice president of CASM)

## Invitation

### Steering Committee

#### Chairman:

Prof. Li Pengde (Deputy Director General of National Administration of Surveying, Mapping and Geoinformation of China)

#### Members:

Chen Junyong (National Administration of Surveying, Mapping and Geoinformation of China)

Li Deren (Wuhan University)

Ning Jinsheng (Wuhan University)

Zhang Zuxun (Wuhan University)

Liu Xianlin (CASM)

Liu Jingnan (Wuhan University)

Xu Houze (Institute of Geodesy and Geophysics, Chinese Academy of sciences)

Wang Jiayao (Information Engineering University)

Xu Qifeng (Information Engineering University)

Wei Ziqing (Xi'an Institute of Surveying and Mapping)

Yang Yuanxi (Bureau of Surveying, Mapping and Navigation)

Guo Huadong (Institute of Remote Sensing and Digital Earth, Chinese Academy of Sciences)

Gong Jianya (Wuhan University)

Li Jiancheng (Wuhan University)

Zhou Chenghu (Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences)

Guo Renzhong (Shenzhen Urban Planning and Land Resources Committee)

Peng Yiqi (Ministry of Science and Technology of China)

Jing Guifei (National Remote Sensing Center of China)

Peter Caccetta (Commonwealth Scientific and Industrial Research Organization, Australia)

John van Genderen (International Institute for Geoinformation Science and Earth Observation, the Netherlands)

Bronwyn Harch (University of Queensland, Australia)

Mazlan bin Hashim (University of Technology Malaysia, Malaysia)

Wolfgang Kainz (University of Vienna, Austria)

Dengsheng Lu (Michigan State University, USA)

Zhong Lu (Southern Methodist University, USA)

Xiaolin Meng (University of Nottingham, UK)

Peter Reinartz (German Aerospace Center, Germany)

### Local Organizing Committee

#### Chairman:

Ms. Wu Lan (Vice president of CASM)

#### Members:

Zhang Liming, Zhou Wei, Xu Ji, Wang Jizhou,

Li Haitao, Dang Yamin, Huang Guoman,

Li Chengming, Zhang Fuhao, Qi Weijun,

Fan Rongshuang, Zuo Jianzhang, Li Yingcheng,

Xu Baolong

**Secretariat:** Zhai Liang, Gao Wujun, Zang Yi, Duan

Minyan, Wang Hua, Sun Xiaoxia, Wu Yaqi, Liu Jia

Dear colleagues and friends,

National geographic conditions monitoring (GCM) is the dynamic, quantitative and spatialized monitoring of natural, human and other geographical factors through comprehensive utilization of GPS, RS, GIS and other modern geoinformation technologies with surveying and mapping result archives of different periods. The monitoring data, maps, and research reports reflecting the spatial distribution of various resources, environmental, ecological, economic elements and its law of change and development which are formed through statistic analysis of the variation, frequency, distribution characteristics, regional differences and change trend can demonstrate the national conditions and national power objectively and comprehensively from the perspective of geographical space. Conducting geographic conditions monitoring, and mastering authoritative, objective and accurate geographic conditions information systematically are the important basis to develop and implement the national development strategy and planning, and optimize national spatial development pattern and all kinds of resource allocation, the important support to promote the ecological environment protection, and construct resource saving and environment-friendly society, the important safeguards to complete disaster prevention and mitigation and emergency support services, as well as the important data foundation for related industries to carry out the investigation and statistics.

Supported by the powerful capability to obtain EO data and advanced science and technology strength, against the global economic integration, a growing number of major developed countries in order to cope with global issues such as climate change, energy and resources, food and public security, have carried out regional and even global activities similar to national geographic condition monitoring. Such as the USA has implemented the five-year plan of Geographic Analysis and Monitoring Program (GAM) since 2008, and the EU has put forward the Global Monitoring for Environment and Security (GMES) since 2003 (renamed "Copernicus Project" in 2013). Over the past years, China has made several attempts on the monitoring and analysis of national and provincial geographic conditions, but the scale and system have not formed because exploratory work still dominates. In 2013, the State Council of China initiated the first national census of geographic conditions, which has been carried out nationwide.

In October 2014, the 55<sup>th</sup> anniversary of Chinese Academy of Surveying and Mapping (CASM) will be celebrated. On the occasion of the festival, as the Third United Nations Global Geospatial Information Management Forum to be held, Chinese Academy of Surveying and Mapping plans to hold the International Workshop on Geographic Conditions Monitoring in Beijing on October 25, and invites academicians and globally famous experts presenting the latest technical development, sharing the valuable experiences and providing technical advices and solutions for the first national census of geographic conditions, national geographic conditions monitoring, and the science and technology development of the academy.

On behalf of the Chinese Academy of Surveying and Mapping, I sincerely invite you to join us for the International Workshop on Geographic Conditions Monitoring and the 55th Anniversary of Founding of the Chinese Academy of Surveying and Mapping in Beijing on October 25, 2014.

Looking forward to meeting you all in Beijing in October!

Prof. Dr. Zhang Jixian  
Chairman of IWGCM

President of Chinese Academy of Surveying and Mapping

# General Information

**Date:** October 25 (Saturday), 2014

**Venue:** Chinese Academy of surveying and mapping  
No. 28 Lianhuachixi Road, Haidian District, Beijing 100830, China.

**Official Language:** English

**Organized by:**  
Chinese Academy of Surveying and Mapping

**Steered by:**  
National Administration of Surveying, Mapping and Geoinformation of China

**Sponsored by:**  
International Society of Photogrammetry and Remote Sensing  
Taylor & Francis Group  
MDPI Journal of Remote Sensing

**Themes:**

- Framework of GCM: theories, methods and technologies;
- Multi-source data fusion and GCM information extraction;
- Discovery and detection of temporal and spatial variation;
- Key technologies and methods of thematic GCM: dynamic monitoring of natural ecology, dynamic monitoring of urbanization development, etc.;
- Statistical analysis key technologies of GCM information under big data environment;
- Achievement form and service mode of GCM;
- Indexes of GCM;
- Application of GCM ;
- New progress, achievements and applications of other surveying, mapping and geoinformation technologies.



**Preliminary Conference Program**

Time	Activity	
9:30-12:30	Registration Opening Ceremony Plenary Session	
12:30-14:00	Buffet	
14:00-18:00	Plenary Session	14:00-15:30
	Launch Ceremony of Surveying and Mapping Technology Innovation Alliance	IJIDF Editorial Board Meeting
18:30-20:00	Welcome Dinner	

**Publications**

Paper and electronic notices of the workshop will be prepared, and relevant selected papers related to GCM will be published in the Special Issue entitled "Remote Sensing Dedicated to Geographic Conditions Monitoring" of Remote Sensing (ISSN 2072-4292).

**Contacts**

The Workshop Announcement will be published on the CASM's website ([www.casm.ac.cn](http://www.casm.ac.cn)) during October 2014 or mailed to you at your request. You may also contact our secretariat for details at following address:

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