



International Committee on  
Global Navigation Satellite Systems

**Seventh Meeting of the  
International Committee on Global Navigation Satellite Systems (ICG)**

**Hosted by the Government of the People's Republic of China**

**Beijing, China**

**4 – 9 November 2012**

**AGENDA**

## Sunday, 4 November

Venue: BEIJING INTERNATIONAL CONVENTION CENTER, No.8 of Beichen East Road ,  
Chaoyang District

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**16:00 - 18:00**      **On-site Registration**

**16:00 - 17:00**      **Meeting with the Working Groups Co-Chairs (Conference Room 201A)**

*Co-chairs: Mr. Xiancheng DING, Senior Advisor of China Satellite Navigation Office, China and Mr. Kenneth HODGKINS, Department of State, United States of America*

*Attended by only the Providers and the co-chairs of the Working Group. The primary purpose is to identify issues for discussion in the working groups.*

**17:00 - 18:00**      **First Session of the Providers' Forum (Conference Room 201A)**

*Co-chairs: Mr. Xiancheng DING, Senior Advisor of China Satellite Navigation Office, China and Mr. Kenneth HODGKINS, Department of State, United States of America*

*Attended by only the Providers. The primary purpose is to discuss the agenda and meeting procedures for ICG-7 and the Ninth Meeting of Providers' Forum, draft recommendations to the ICG from the working groups and to develop response or suggest amendments to the draft recommendations, and address any other matters as required. Compose a temporary drafting group.*

## Monday, 5 November

Venue: BEIJING INTERNATIONAL CONVENTION CENTER, No.8 of Beichen East Road ,  
Chaoyang District

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**07:30 - 09:00**      **On-site Registration**

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**09:00 - 09:30**      **Opening Ceremony (Conference Room 2)**

**Attended by all.**

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**09:30 - 12:30**      **FIRST PLENARY SESSION OF THE ICG (Conference Room 2)**

*Chair: Mr. Chengqi RAN, Director, China Satellite Navigation Office, China*

*Attended by all. The primary purpose is for Providers to present the status and future plans for their systems, and for members, associate members and observers to also provide updates. All presenters will identify issues for discussion in the ICG and/or working groups*

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**09:30**                      **Welcome/Opening Remarks**

*Mr. Chengqi RAN, Director, China Satellite Navigation Office, China*

**09:35 Adoption of Agenda**

**09:40 - 11:30 Providers System and Service Updates**

09:40 Development of BeiDou Navigation Satellite System

*Mr. Qiaohua HUANG, Deputy Director, China Satellite Navigation Office, China*

10:00 United States Systems Status and Service Provision

*Mr. Bernie GRUBER, United States Air Force and Mr. Anthony RUSSO, National Coordination Office, United States of America*

10:20 GLONASS: Government Policy, Status and Modernization and System of Differential Correction and Monitoring (SDCM) Status and Plans

*Mr. Sergey REVNIVYKH, TsNIImash, Information and Analysis Center for PNT, and Mr. Grigory STUPAK, Joint Stock Company "Russian Space Systems", Russian Federation*

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**10:40 - 11:00 Coffee Break**

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11:00 The European Satellite Navigation System (GALILEO) and the European Geostationary Navigation Overlay Service (EGNOS)

*Mr. Dominic HAYES, European Satellite Navigation Programmes, European Commission*

11:20 The Quasi-Zenith Satellite System (QZSS)

*Mr. Eigo NOMURA, Office of National Space Policy, Cabinet Office, Japan*

11:40 Discussions and Concluding Remarks

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**12:00 - 12:30 Presentations by Members, Associate Members, Observers and Invited Observers on Matters of Interest to ICG (Conference Room 2)**

*Attended by all. Opportunity for members, associate members, observers and invited observers to present recent developments in their organizations and associations with regard to GNSS services and applications.*

12:00 The IGS: a Multi-GNSS Service

*Mr. Chris RIZOS, International GNSS Service*

12:15 The role and importance of the ITRF for sustainable development

*Mr. Zuheir ALTAMIMI, International Earth Rotation and Reference Systems Service*

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**12:30 - 14:00 Group Photo / Lunch (Banquet Hall, Beijing Continental Grand Hotel)**

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**14:00 - 16:00 Presentations by Members, Associate Members, Observers and Invited Observers on Matters of Interest to ICG (continues) (Conference Room 2)**

- 14:00 EUREF Infrastructure Galileo ready  
*Mr. Johannes IHDE, International Association of Geodesy Reference Frame Sub-Commission for Europe*
- 14:15 The role of GNSS ground infrastructure elements – How integrated can they become?  
*Mr. Matt HIGGINS, International Federation of Surveyors*
- 14:30 Navipedia: The reference for Global Navigation Satellite Systems  
*Mr. Stefan WALLNER, European Space Agency*
- 14:45 Standardization of position information during Catastrophic Incident Search and Rescue (SAR) events  
*Mr. Rick HAMILTON, Civil Global Positioning System Service Interface Committee*
- 15:00 Current status related to the RNSS systems and outcome of the RES-609 meeting  
*Mr. Attila MATAS, International Telecommunication Union*
- 15:15 Recent developments in time references  
*Mr. Wlodek LEWANDOWSKI, BIPM*
- 15:30 GNSS activity in Canada  
*Ms. Jina MACEACHERN, Canada*
- 15:45 GNSS activity in Australia  
*Mr. Joseph ANDREWS, Australia*

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**16:00 - 16:15 Coffee Break**

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**16:15 - 18:25 GNSS Applications Experts Seminar (Conference Room 2)**

*Attended by all. The primary purpose is for participants or invited presenters to raise awareness of issues and/or opportunities in user applications and GNSS technologies for consideration by the ICG and/or working groups.*

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**16:15 - 17:20 Session 1: Professional Application**

*Co-chairs: Mr. Jun ZHAO, Senior Advisor of China Satellite Navigation Office , China, and Mr. Rick HAMILTON, Civil GPS Service Interface Committee, United States of America*

- 16:15 The Applications of BeiDou in Vessel Monitoring and Management  
*Mr. Huawen HUANG, Shanghai Ubiquitous Navigation Technologies Ltd., China*
- 16:25 GNSS/BeiDou Awareness and Technology Demonstration in Pakistan  
*Mr. Jamal SYED ZAHID, Space and Upper Atmosphere Research Commission,*

*Pakistan*

- 16:35 The Application of GNSS in the Management of the Government Vehicles  
*Ms. Haina SONG, Guangdong BeiDou Navigation Satellite Industry Alliance, China*
- 16:45 GPS Emerging Application in Digital Construction in Railways, Highways,  
Waterways, and Agriculture in China  
*Mr. Kevin CHIN, Trimble Navigation Limited, United States of America*
- 16:55 The Compatible Navigation Terminal System and Its Applications in Asia-Pacific  
Region  
*Ms. Hailing HUANG, Asia-Pacific Space Cooperation Organization*
- 17:05 A Framework for Understanding and Specifying GNSS Positioning Requirements for  
Cooperative Intelligent Transport Systems  
*Mr. Matt HIGGINS, International Federation of Surveyors*
- 17:15 Discussions and Concluding Remarks

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**17:20- 18:25 Session 2: Mass-market Application**

*Co-chairs: Mr. Xingqun ZHAN, Senior Advisor of China Satellite Navigation Office ,  
China, and Mr. Stefan WALLNER, Expert, European Space Agency*

- 17:20 Overview of BeiDou/GPS Applied in Road Transportation  
*Mr. Jing LI, China Transport Telecommunications & Information Center, Ministry of  
Transport, China*
- 17:30 BeiDou Demonstration Project in Korea and Initial Results  
*Mr. Sangjeong LEE, National GNSS Research Center, Korea*
- 17:40 Vehicle Network Development and Application based on BeiDou System  
*Mr. Yuguo SUN, Company NavInfo Co., Ltd, China*
- 17:50 Indoor Positioning for Consumers  
*Mr. Greg TURETZKY, CSR Technology, Inc, United States of America*
- 18:00 The Seamless Outdoor and Indoor Positioning in Wide Area Based on TC-OFDM  
*Mr. Zhongliang DENG, Beijing University of Posts and Telecommunications*
- 18:10 Mass-Market GLONASS Applications  
*Ms. Olga NUGAEVA, Joint Stock Company "Navigation-information systems",  
Russian Federation*
- 18:20 Discussions and Concluding Remarks

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**18:25 Adjourn**

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**18:30 - 20:30 Welcome Dinner (Banquet Hall, Beijing Continental Grand Hotel)**

## Tuesday, 6 November

Venue: **BEIJING INTERNATIONAL CONVENTION CENTER, No.8 of Beichen East Road ,  
Chaoyang District.**

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**08:30 - 09:00**      **On-site Registration**

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**09:00 - 10:15**      **GNSS Applications Experts Seminar (*Conference Room 2*)**

**Session 3: Scientific Applications**

*Co-chairs: Mr. Xurong DONG, Senior Advisor of China Satellite Navigation Office, China and Mr. Sergey REVNIVYKH, TsNIImash, Information and Analysis Center for PNT, Russian Federation*

09:05                  Solution of Internet of Ship based on BeiDou System  
*Mr. Jianhui LI, BDStar navigation Co Ltd., China*

09:15                  CTBT/OSI regime and GNSS application  
*Mr. Peng LI, On-Site Inspection Division, Preparatory Commission for the CTBTO*

09:25                  GNSS is the Core Technology to Support GGOS Applications  
*Mr. Chris RIZOS, International Association of Geodesy*

09:35                  GNSS meteorological application and the instrument development for BeiDou  
*Mr. Yunchang CAO, China Meteorological Administration, China*

09:45                  Time Transfer with Integer PPP  
*Mr. Jerome DELPORTE, French Space Agency, France*

09:55                  Location Assurance Service Provider  
*Mr. Stefan WALLNER, European Space Agency*

10:05                  Discussion and Concluding Remarks

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**10:15 - 10:30**      **Coffee Break**

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**10:30 - 12:30**      **Second Session of Providers' Forum (*Conference Room 2*)**

*Co-chairs: Mr. Xiancheng Ding, Senior Advisor of China Satellite Navigation Office , China , China and Mr. Kenneth HODGKINS, Department of State, United States of America*

*Attended by only the Providers.*

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**10:30 - 12:30**      **(in parallel) Meeting of Members, Associate Members and Observers (*Conference*)**

*Room 201A)*

*The purpose is to discuss issues of common concern that have emerged during earlier sessions*

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**12:30 - 13:20      Lunch (Banquet Hall , Beijing Continental Grand hotel)**

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**13:30 - 18:30      Technical Tour**

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**Wednesday, 7 November**

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**Venue: BEIJING INTERNATIONAL CONVENTION CENTER, No.8 of Beichen East Road ,  
Chaoyang District.**

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**08:30 - 09:00      On-site Registration**

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**09:00 - 12:30      WORKING GROUPS MEETINGS (PARALLEL SESSIONS)**

**WG A – Compatibility and interoperability (Conference Room 201BCD)**

*Co-chairs: Mr. David TURNER, Department of State ,United States of America and  
Mr. Sergey REVNIVYKH, TsNIImash, Information and Analysis Center for  
PNT, Russian Federation*

**(in parallel) WG C – Information dissemination and capacity building  
(Conference Room 201A)**

*Co-Chairs: Ms. Sharafat GADIMOVA, United Nations Office for Outer Space Affairs  
and Mr. Dongkai YANG, Senior Advisor of China Satellite Navigation  
Office , China*

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**10:15 - 10:30      Coffee Break**

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**12:30 - 14:00      Lunch (Banquet Hall, Beijing Continental Grand hotel)**

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**14:00 - 17:30      WORKING GROUPS MEETINGS PARALLEL SESSIONS (continues)**

**WG B – Enhancement of performance of GNSS services (Conference Room  
201BCD)**

*Co-chairs: Mr. Stefan WALLNER, European Space Agency and Mr. A.S. GANESHAN,  
Indian Space Research Organization, India*

**(in parallel) WG D – Reference Frames, Timing and Applications (Conference  
Room 201A)**

*Co-chairs: Ms. Ruth NEILAN, International Association of Geodesy, Mr. Zuheir  
ALTAMIMI, International Earth Rotation and Reference Systems Service,*

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**15:45 - 16:00**      **Coffee Break**

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**17:30**              **Adjourn**

## **Thursday, 8 November**

**Venue: BEIJING INTERNATIONAL CONVENTION CENTER, No.8 of Beichen East Road ,  
Chaoyang District.**

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### **09:00 - 10:30**      **WORKING GROUPS PARALLEL SESSIONS**

*Working groups to prepare conclusions and recommendations for the ICG consideration.*

**WG-A Discussion (Conference Room 201A)**

**WG-B Discussion (Conference Room 203A)**

**WG-C Discussion (Conference Room 203B)**

**WG-D Discussion (Conference Room 203C)**

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**10:30 - 10:45**      **Coffee Break**

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### **10:45 - 15:30**      **SECOND PLENARY SESSION OF THE ICG (Conference Room 2)**

*Chair: Mr. Chengqi RAN, Director, China Satellite Navigation Office, China*

*Attended by all. The primary purpose is for Working Groups to present results of their meetings or any meetings held since the Sixth Meeting of the ICG. Presentations will include any draft recommendations to the ICG.*

**10:50 - 11:35**      **Presentation by WG-A and Discussion**

**11:35 - 12:20**      **Presentation by WG-B and Discussion**

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**12:30-14:00**      **Lunch (Banquet Hall, Beijing Continental Grand hotel)**

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**14:00 - 14:45**      **Presentation by WG-C and Discussion**

**14:45 - 15:30**      **Presentation by WG-D and Discussion**

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**15:30 - 17:30**      **THIRD SESSION OF PROVIDERS' FORUM (Conference Room 2)**



*Co-chairs: Mr. Xiancheng Ding, Senior Advisor of China Satellite Navigation Office , China , China and Mr. Kenneth HODGKINS, Department of State, United States of America*

*Attended by only the Providers and the co-chairs of the Working Group. The primary purpose is to discuss any draft recommendations to the ICG from the working groups and to develop response or suggest amendments to the draft recommendations.*

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**15:30 - 17:30**      **(in parallel) Meeting of Members, Associate Members and Observers (as needed) (Conference Room 201A)**

*The purpose is to discuss issues of common concern that have emerged during earlier sessions.*

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**16:15 - 16:30**      **Coffee Break**

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**17:30**                **Adjourn**

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**18:00 - 20:30**      **Reception (Banquet Hall , Beijing Continental Grand Hotel)**

## **Friday, 9 November**

**Venue: BEIJING INTERNATIONAL CONVENTION CENTER, No.8 of Beichen East Road , Chaoyang District.**

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**09:00 - 12:30**      **THIRD PLENARY SESSION OF THE ICG (Conference Room 2)**

*Chair: Mr. Chengqi RAN, Director, China Satellite Navigation Office, China*

*Attended by all. The primary purpose is to consider final recommendations as considered by the Providers' Forum. This session will also consider other ICG-related issues.*

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**09:00 - 10:30**      **Report of the Co-chairs of the Providers' Forum**

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**10:30 - 10:45**      **Coffee Break**

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**10:45 - 11:45**      **Review and approval of meeting conclusions (joint statement)**

**11:45 - 12:00**      **Announcement for the Eighth Meeting of the ICG**

*Mr. Salem AL MARRI, Emirates Institution for Advanced Science and Technology (EIAST), United Arab Emirates*

**12:00 - 12:30**      **Other Matters and Closing Statements**

**12:30**                **Adjourn**