



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

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

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

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

Attended by all.

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

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

10:40 - 11:00 Coffee Break

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

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

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

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

16:00 - 16:15 Coffee Break

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.

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

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

18:25 Adjourn

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

Tuesday, 6 November

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

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

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

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

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.

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

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

13:30 - 18:30 **Technical Tour**

Wednesday, 7 November

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

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

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*

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

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

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,*

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

17:30 **Adjourn**

Thursday, 8 November

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

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)

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

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**

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

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

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

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.*

**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.*

16:15 - 16:30 Coffee Break

17:30 Adjourn

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.**

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.*

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

10:30 - 10:45 Coffee Break

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