

Information Centres for The International Committee on Global Navigation Satellite Systems

23rd Providers' Forum Meeting

8 and 12 December 2019, Bangalore, India

Sharafat Gadimova

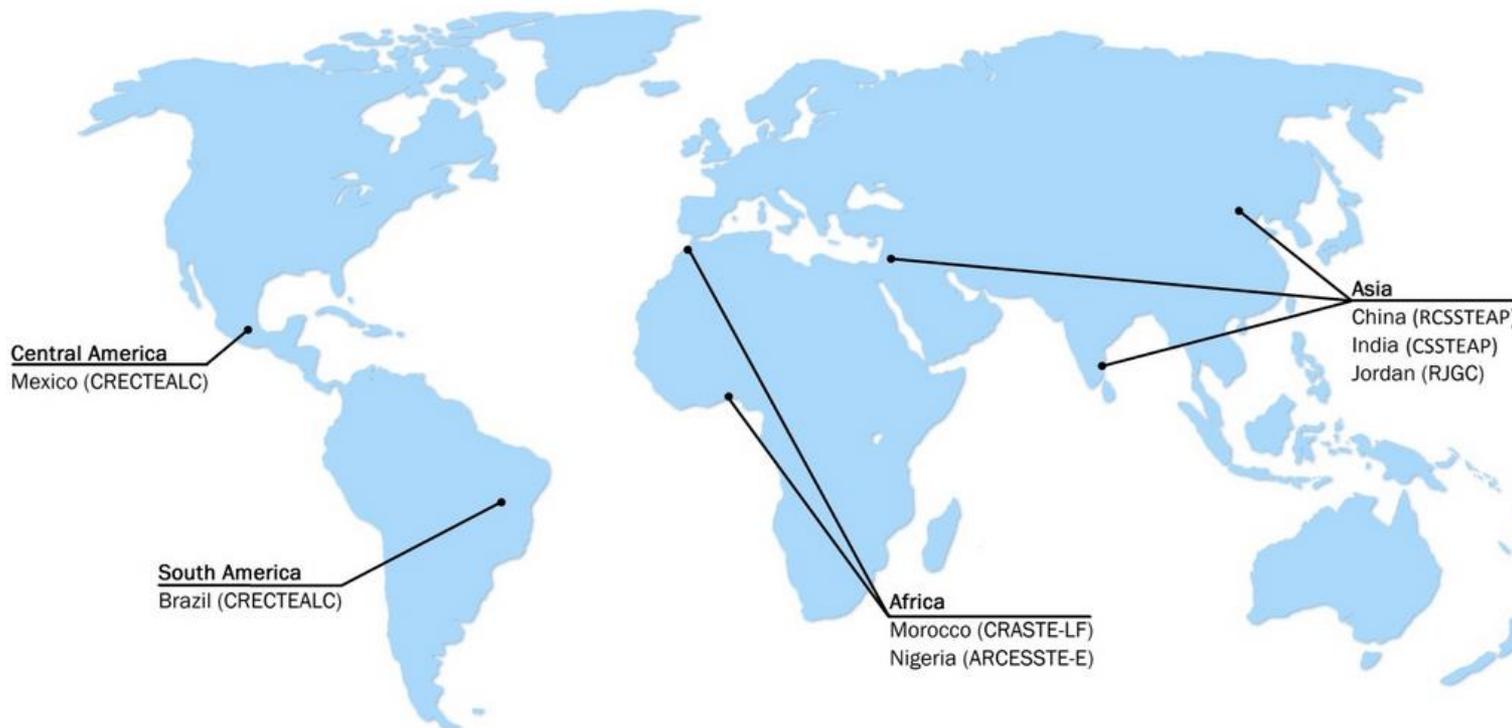


UNITED NATIONS
Office for Outer Space Affairs



Information Centres for ICG

The Programme of Space Applications established regional centres (**also acting as the ICG information centres**) in each region covered by the United Nations Economic Commissions: Africa, Asia and the Pacific, Latin America and the Caribbean, and Western Asia





ICG: Programme on GNSS applications

❖ Space Weather and GNSS (WGC)

- Promotes the use of GNSS for scientific applications and space weather in developing countries
- Increased number of students and young scientists studying and using GNSS, including increasing participation by women, and many opportunities for research (improved imaging of the ionosphere over the equatorial region, ionospheric effects on augmentation systems...)
- *In cooperation with the Institute for Scientific Research at Boston College, the United States, and the Abdus Salam International Centre for Theoretical Physics, Italy: A series of outreach workshops on space weather effects on GNSS operations*



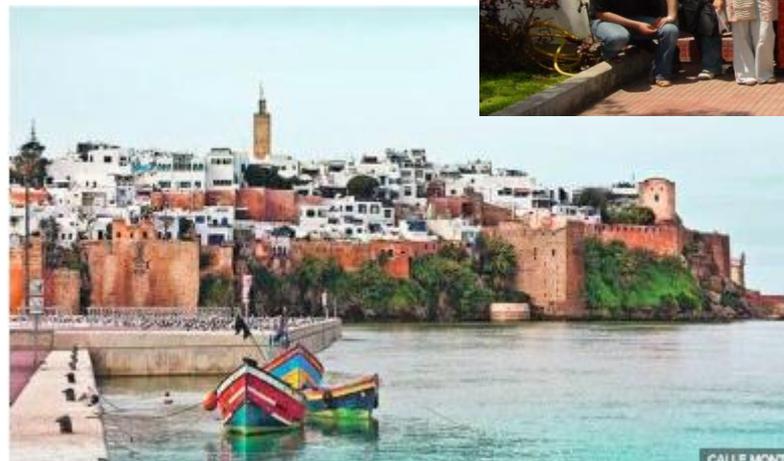


ICG: Programme on GNSS applications

2020: African Workshop on GNSS and Space Weather, Rabat, Morocco, 5 – 16 October

- To provide updated knowledge of how GNSS operate and their applications; to describe the science of SW; and how to perform ionospheric and SW research with GNSS data

- Introduction to Global Navigation Satellite Systems
- GNSS Applications
- Ionospheric Total Electron Content
- Scintillation
- Ionospheric Modeling
- Space Weather
- The Sun-Earth Connection
- Hands-on laboratories





ICG: Programme on GNSS applications

- ❖ **United Nations Regional Workshops/training courses on the use and applications of GNSS**
 - Building the capacity of developing countries in using GNSS technology for sustainable development
 - **WGS:** *Seminar on GNSS Spectrum Protection and Interference Detection and Mitigation:*
 - The purpose of the seminar is to educate participants on the importance of GNSS spectrum protection at the national level and explain how to reap the benefits of GNSS
 - **WGD&B&S:** *Special technical session on Interoperability of GNSS PPP services*
 - To to increase the user benefits and opportunities to support PNT applications in developing countries.

2020: United Nations/Mongolia Workshop on the applications of GNSS, 13 – 17 April, Ulaanbaatar



ICG: Programme on GNSS applications

❖ Reference frames and timing (WGD)

- To benefit operational geodesists or surveyors involved in positioning and measurement and potentially dealing with sea level changes. It is open to government, private sector, academic or graduate students in surveying or a related discipline (IAG, FIG, IGS): *Technical Seminars on Reference Frames in Practice, FIG Working Week*

❖ Training Course on GNSS (WGC)

- To create awareness on GNSS and its applications in Asia and the Pacific region (*the Centre for Spatial Information Science of the University of Tokyo, Japan and Asian Institute of Technology, Bangkok*)
- General overview of signal processing in receiver, receiver performances, field survey using low-cost receiver for high-accuracy positioning,

Training on GNSS, 6 – 10 January 2020, Bangkok, Thailand



ICG Information Portal



- About Us ▾
- Our Work ▾
- Benefits of Space ▾
- Information for... ▾
- Events ▾
- Space Object Register ▾
- Documents ▾
- COPUOS 2015 ▾

Our Work ▾ ICG

International Committee on Global Navigation Satellite Systems (ICG)

MISSION STATEMENT

The International Committee on Global Navigation Satellite Systems (ICG), established in 2005 under the umbrella of the United Nations, promotes voluntary cooperation on matters of mutual interest related to civil satellite-based positioning, navigation, timing, and value-added services. The ICG contributes to the sustainable development of the world. Among the core missions of the ICG are to encourage coordination among providers of global navigation satellite systems (GNSS), regional systems, and augmentations in order to ensure greater compatibility, interoperability, and transparency, and to promote the introduction and utilization of these services and their future enhancements, including in developing countries, through assistance, if necessary, with the integration into their infrastructures. The ICG also serves to assist GNSS users with their development plans and applications, by encouraging coordination and serving as a focal point for information exchange.



International Committee on
Global Navigation Satellite Systems

The International Committee on Global Navigation Satellite Systems (ICG) strives to encourage and facilitate compatibility, interoperability and transparency between all the satellite navigation systems, to promote and protect the use of their open service applications and thereby benefit the global community. Our vision is to ensure the best satellite based positioning, navigation and timing for peaceful uses for everybody, anywhere, any time.

VISION STATEMENT

At the "United Nations International Meeting for the Establishment of the International Committee on Global Navigation Satellite Systems (ICG)" held on 1-2 December 2005 in Vienna, Austria, the ICG was established on a voluntary basis as an informal body for the purpose of promoting cooperation, as appropriate, on matters of mutual interest related to civil satellite-based positioning, navigation, timing, and value-added services, as well as compatibility and interoperability among the GNSS systems, while increasing their use to support sustainable development, particularly in the developing countries. The participants in the meeting agreed on an establishment of the ICG information portal, to be hosted by UNOOSA, as a portal for users of GNSS services.

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Our Work

Secretariat of COPUOS

Programme on Space Applications

UN-SPIDER

ICG

- Members
- Providers' Forum
- Working Groups
- ICG Annual Meetings
- ICG Programme on GNSS Applications
- Resources
- ICG Documents
- Space Weather & GNSS
- Other Events
- ICG Timeline

UN-Space

Space Law

Topics

Photo Gallery

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