

ICG Multilateral Ionospheric Workshop

Date: 25–26 June 2025

Location: Vienna International Centre, Austria

Co-Chairs: Manuel Hernández-Pajares (Spain) and Qi Liu (China)

Day 1 (25 June 2025)

9:30-13:00 | Session 1: Overview of Ionospheric Impacts on GNSS (Part I)

Chair: Qi LIU

Time (CEST)	Presentation Title	Presenter
10:00-10:10	Opening Remarks and Agenda Introduction	Co-Chairs
10:10-10:30	Comparative assessment of single frequency GNSS ionospheric broadcast models during the May 10, 2024 geomagnetic storm event	Devanaboyina Venkata RATNAM (India) (online)
10:30-10:50	GNSS ionospheric integrity monitoring based on RBF-NN: Constructing single-epoch snapshot GIVD and GIVE maps	Yunri FU (China) (online)
10:50-11:10	Investigate the ionosphere effect on GNSS signals propagation over the Algerian region	Omar HAMMOU ALI (Algeria) (online)
11:10-11:30	Ionospheric irregularities and their impact on GNSS signals in the polar regions	Wojciech MILOCH (Norway)
11:30-11:50	Coffee Break	-
11:50-12:10	Response of the ionosphere to the 2013 SSW event	Omena IDOLOR (Nigeria) (online)
12:10-12:30	Effects of high ionospheric activity on PPP	Marcus Franz WAREYKA-GLANER (Austria)
12:30-12:50	The impact of the extreme geomagnetic storm of 10-11 May 2024 on GNSS ionospheric models and positioning	Qiang ZHANG (China)

Time (CEST)	Presentation Title	Presenter
12:50-13:30	Discussion	-
13:30-15:00	Lunch Break	

15:00-17:30 | Session 2: Applicable Strategies and Collaborative Actions (Part II)

Chair: Marcus Franz WAREYKA-GLANER

Time (CEST)	Presentation Title	Presenter
15:00-15:20	Ionospheric response to the geomagnetic storms of May and October 2024	Chukwuma ANORUO (Brazil) (online)
15:20-15:40	Mid-latitude GPS scintillation and position errors during 10-11 May and October 2024	Waqar YOUNAS (USA) (online)
15:40-16:00	Coffee Break	-
16:00-16:20	OASIS: an Open-access system for ionospheric studies	Giorgio Arlan da SILVA PICANÇO (Brazil) (online)
16:20-16:40	A review on real-time global ionospheric maps and potential refinements	Ningbo WANG (China)
16:40-17:00	What can GNSS-R tell us about the Ionosphere's vertical structure	Mario MORENO (Germany)
17:00-17:30	Discussion	-

Day 2 (26 June 2025)**9:30-13:00 | Session 3: Recommendations and Conclusions (Part II)****Chair: Qi LIU & Manuel HERNÁNDEZ-PAJARES**

Time (CEST)	Presentation Title	Presenter
9:30-9:50	Aircraft approach and landing performance with SBAS during peak solar cycle 25	Narayan DHITAL (Germany) (online)
9:50-10:10	A machine learning-based (AA)2 GNSS PNT TEC/ionospheric delay prediction model built upon an observations data base of long-term geomagnetic field density components	Renato FILJAR (Croatia)
10:10-10:30	Collaborative research in ionospheric irregularities in ASEAN region	Pornchai SUPNITHI (Thailand) (online)
10:30-10:50	Toward standardized and policy-aligned use of GNSS in disaster management under ionospheric disturbances	Hassan Mohamed Galal Mohamed ABOUSEADA (Egypt)
10:50-11:10	Coffee Break	-
11:10-11:30	Continuous doppler sounding system inclusion evaluation for the GNSS performance indicator	Jaroslav URBÁŘ (Czech Republic)
11:30-11:50	Evaluation of ionospheric delay correction models for GPS, Galileo, and BDS-3 in single-frequency SPP mode	Pawel WIELGOSZ (Poland) (online)
11:50-12:10	New experiences in Low Cost GNSS Ionosphere	Manuel HERNÁNDEZ- PAJARES (Spain)
12:10-12:30	Recommendation for international cooperation on ionospheric monitoring and early warning	Qi LIU (China)
12:30-13:00	Discussion and summary report: Global collaboration and recommendations to ICG	-

Time (CEST)	Presentation Title	Presenter
13:00	Adjourn	