

Recommendation for Committee Decision

Prepared by: Working Group B

Date of Submission: 22 October 2025

Issue Title: The workshop on ionospheric monitoring and warning and international collaboration for global navigation satellite systems (GNSS)

Background/Brief Description of the Issue:

The ionosphere is one of the key factors affecting the performance of all navigation satellite systems. Currently, the 25th solar activity cycle is ongoing. During this period, the occurrence and intensity of ionospheric anomalies such as scintillation, disturbances, and storms will increase significantly. The influence of the ionosphere is similar for all navigation satellite systems and ionospheric anomalies can have a significant global impact. Aligned with the recommendation Working Group B in 2024 from the eighteenth meeting of ICG, the ICG Multilateral Ionospheric Workshop on “Ionospheric Impacts on GNSS and International Collaboration to Meet Current and Future Solar Activity Period Challenges” was held on 25 – 26 June 2025. The workshop identified many areas of potential work.

Discussion/Analyses:

Monitoring of the GNSS performance is a fundamental activity within the ICG. Given that the ionosphere exerts global impacts on different countries, collaborative efforts among worldwide countries would be helpful to monitor the global ionospheric impacts and potentially provide alerts. Currently, other organizations (for example the International Civil Aviation Organization (ICAO)) are also working on the ionospheric monitoring and warning. ICG should precisely identify which contribution could be done, in complement to activities performed by other organizations.

To meet this goal, it is necessary to hold a dedicated workshop involving ICG members and representatives from other international organizations. The workshop will discuss what could be the most appropriate format to organize the work and the required actions under the ICG Working Group B.

Recommendation of Committee Action:

ICG encourages ICG members and international organizations to work together by conducting a workshop of ionospheric monitoring and warning for GNSS aimed at identifying which contribution could be done by ICG.

The ICG Working Group B will identify the most appropriate format to organize the activities contributing to the collaborative effort.

Members Consensus Reached _____; **No Consensus Reached** _____

Chairperson Signature: _____ **Date:** _____