

ICG WG-B Meeting

Enhancement of GNSS Performance, New Services and Capabilities

Dear ICG WG-B members,

Please be invited to the ICG WG-B Meeting of ICG-19 planned for

19-24 October 2025, Busan (Republic of Korea)

The objective of the meeting will be to review the progress on past WG-B Recommendations, to allow the WG-B Sub-groups to provide the Status of their activities and to discuss future WG-B activities and prepare new recommendations supported by corresponding technical presentations. Below you will find the draft agenda for the Meeting.

In case you plan to participate to the Interim Meeting, please confirm possible contributions to the co-chairs. Furthermore, it would be highlight appreciated if you could identify a point of contact to which the final meeting details will be sent.

Kind regards,

Co-chairs of ICG WG-B

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ICG-19 WG-B Meetings (Hybrid)

Enhancement of GNSS Performance, New Services and Capabilities

Agenda

Date: October 19 - 24th, 2025

Venue: Paradise Hotel, Busan (Republic of Korea)

Co-chairs: Daniel BLONSKI (ESA), CHANG Xinuo (China), Nilesh M. DESAI (INDIA)

Draft Agenda – Working Group B		
Tuesday 21st October		
Session 1:	Opening Remarks of WG-B meeting at ICG-19	
Tuesday 21 st October	> Introduction to WG-B Meeting > Approval of the agenda > Progress on WG-B Recommendations	10:50 – 11:10
	Status of WG-B Sub-groups	11:10 – 11:50
	> Report of Space Use Sub-group Activities > Report of Application Sub-group Activities 1) Application Subgroup Update , SHEN Jun (Unistrong)	
	Report from Workshop on Ionospheric Impacts on GNSS and International Collaboration to Meet Current and Future Solar Activity Period Challenges	11:50 – 13:00
	2) Impacts of the Ionosphere on Global Navigation Satellite System (GNSS) and Countermeasures , LIU Qi (Henan University) 3) Ambient-Aware PNT Mitigates Ionospheric Effects on GNSS PNT and Allows for Collaborative GNSS Positioning Environment Situation Awareness , Renato Filjar 4) The Impact of Space Weather Event on GNSS Systems during Delining Phase of Solar Cycle 25 , LIU Kai (USTC) 5) LSTM Based TEC Prediction using Aditya L1 Solar Data over Indian Tropical Region , Ashish Shukla (SAC/ISRO) & Surendra Sunda (AAI) Discussion of Draft Recommendation Recommendation: Ionospheric Monitoring and Warning Subgroup (please see attached draft recommendation)	10 minutes per contribution
	Lunch Break	13:00 – 14:00
Session 2:	Presentations from WG-B Participants	
Tuesday 21 st October	Enhancements of GNSS Performance	14:00 – 14:50
	6) Global Standardization Challenges for PNT Services , Dr.	10 minutes per contribution

	MOON (KAIST) 7) First Standard for GNSS Timing Receivers , J. P. Boyero, (EC) 8) Galileo Quasi-Pilot Signals: Starting the Era of 2nd Gen Galileo Signals on 1st Gen Satellites , J. Hahn (ESA) 9) Performance Evaluation of GNSS open service signals , Dr. Vijay Singh Bhadouria, Pravin Patidar, (SAC/ISRO)	
	Space Use	14:50 – 15:40
	10) BDS Space Service Volume and Cislunar Expansion Vision - CHANG XINUO (CAST) 11) GNSS based Onboard Real-Time Precise Orbit Determination of LEO satellites , Durga Digdarsini, Hem Raj Shau, SAC/ISRO, India 12) GNSS-R Data products: Initial in-Orbit GNSS-R observations and data processing 13) Open loop rendezvous support using single frequency GPS receiver Thameemunnisha, Umesh Swami, Babu R, Sivaraj, Kalpana Samal, (URSC, ISRO) 14) Satellite Positioning System for Rendezvous, Circumnavigation and Docking: SPADEX mission , Prasanta Mula, M V Kamat, Sivaraj S, Gaurangi Sahay, Namit Roratra (URSC, ISRO)	10 minutes per contribution
	Coffee Break	15:40 – 16:00
Tuesday 21st October	Support to GNSS Science, Scientific Applications of GNSS, Remote Sensing	16:00 – 17:10
	15) All Digital Advanced On-board Waveform Generator for future MEO/GEO NavIC payload Purushotham Tammali, Vijay V Kadam, SAC/ISRO, India 16) GNSS-Reflectometry using EOS-08 and NavIC satellite in highly eccentric orbit , Puja Kakkar, Parikshit Parasher, Devang Mankad, V.M. Ramanujam, SAC/ISRO, India 17) Global-Scale High-Resolution Soil Moisture Mapping Using GNSS-Reflectometry from ISRO's EOS-08 and Validation with SMAP Observations , Dharmendra Kr Pandey (*), Shivani Tyagi and Deepak Putrevu 18) Estimation of Wind and Significant Wave Height using EOS-08 , Abhisek Chakraborty (*), Suchandra Aich Bhowmick, Aditya Chaudhary and Neeraj Agarwal 19) Development of NavIC-Enabled Systems for Environmental Monitoring and Satellite Altimeter Calibration , Surisetty V V Arun Kumar (*), Kalpesh K Borsadiya, Amit K Dubey, Sanjib K Deb, Ghanshyam J Doshi, Deepak Putrevu and Rashmi Sharma Dubey	10 minutes per contribution
	2.4 Enhancements of GNSS Performance	17:10 – 17:30
	20) GNSS/NavIC enabled NavCom applications in India , Vibha Sourabh Jain, Amit Sinha, SAC/ISRO, India 21) Navigation Message Authentication Enabled GNSS+ NavIC miniaturized Receiver module , Saurabh Bhalla, Krunal Kolhatkar, Akshay Pande, Rakesh Kumar Bijarniya, Apurv Vasal, Anusha Singamaneni, Rohan Urdhwaresh, Saumi S., SAC/ISRO, India	10 minutes per contribution

	2.2 Support to Search and Rescue and Emergency Warning Services	17:30 – 18:00
	22) Progress report on Beidou International Search and Rescue (SAR) and GMDSS Service, LU Hongyang (CTTIC) 23) Search and Rescue(SAR) and EWS services by KPS System, Sanguk Lee (ETRI)	10 minutes per contribution
	Adjourn	18:00

Wednesday 22nd October		
Session 3:	Discussion on WG-B Objectives / Work areas/ Recommendations	
Wednesday 22 nd October	> Proposals for new directions by members of WG-B > Discussion of Draft Recommendations by members of WG-B Recommendation: Ionospheric Monitoring and Warning Subgroup (please see attached draft recommendation) > Drafting of Report to ICG-19 Plenary Session Meeting > Drafting of WG-B Contribution to ICG Joint Statement	09:00 – 12:30
	Adjourn	12:30

Thursday 23rd October		
Session 4:	Finalization of WG-B Report	
Thursday 23 rd October	> Finalization of ICG-19 WG-B Recommendations > Finalization of ICG-19 WG-B Report to Plenary	09:00 – 10:30
	End of WG-B Meetings @ ICG-19	10:30