

ICG-14 WG-B Meetings
Enhancement of GNSS Performance, New Services and Capabilities
DRAFT Agenda

Date: December 10-12, 2019

Venue: Hotel ITC Gardenia, Bengaluru, Conference Room on Level 1

Co-chairs: N.M. Desai (INDIA/ISRO), D. Blonski (ESA), X. Zhan (China)

Date: 10 December, 2019, Tuesday, 09.00-18.00 hrs.	
Opening Remarks	
➤ Introduction to WG-B Meeting	Co-Chairs
➤ Approval of the agenda	All
Session 1: Progress on ICG-13 WG-B Recommendations	
➤ Review of the implementation of WG-B Recommendations and identification of required additional actions	Co-Chairs
Session 2: Status report from the WG-B Subgroups	
➤ Applications Subgroup progress after ICG-13, Vienna Interim Meeting and Workplan	App SG Co-Chairs
➤ Space User Subgroup progress after ICG-13, Vienna Interim Meeting and Workplan	Space User SG Co-Chairs
Session 3: Interoperable GNSS Space Service Volume	
➤ SSV-Video Replay and Further Update	F. Bauer, NASA
➤ India's Efforts for Space Service Volume	V.M. Tirlapur, ISRO, India
➤ Signal improvement of GNSS for Cislunar SSV	WANG Haihong, China Academy of Space Technology
➤ NASA GNSS Space User Update	NASA
➤ Autonomous Flight Termination System	NASA
➤ New Russian High Precision Navigation Module	Sergey Silin NAVIS Inc., Russia
Session 4: New Services providing Integrity through non-GEO satellites & Novel user position integrity models and solutions	
➤	
Session 5: Enhancement of GNSS signals and performance and required system enhancements	
➤ Orbit determination using Two way range measurements and Extended ephemeris of NavIC Satellites	A.Kartik, ISRO, India
➤ Extended Kalman filter based onboard orbit determination using GNSS receiver for LEO and GEO satellites	Neetha T., ISRO, India

➤ The Centispace-1: A LEO Satellite-Based augmentation system	YANG Long Beijing Future Navigation Technology Co. Ltd., China
Session 6: Atmospheric Models for Single Frequency Users	
➤ NeQuick Model and Solar flux estimation for NavIC	S.Nirmala, ISRO, India
Session 7: Space Weather and its relation to GNSS	
➤ Modelling of Ionospheric TEC Perturbations due to Interplanetary Magnetic Field (IMF) Variations	Dr. Rajat Acharya, ISRO, India
➤ Space Weather Payloads on board of BD-3 Satellites	LIU Kai University of Science and Technology of China
Session 8: Remote Sensing, Radio Occultation and Scientific Applications	
➤ Retrieval of Atmospheric Moisture from GNSS Signals and its Impact on the Weather Prediction	Dr. Randhir Singh, ISRO, India
➤ Harnessing GNSS and NavIC Signals for Weather and Ocean Winds	Dr. Abhineet Shyam, ISRO, India
➤ Extreme Weather Detection using NavIC	Dr Abhirup Dutta, IIT Indore, India
➤ Seismic Activity Detection using NavIC Signals	T.Rethika, ISRO, India
➤ GNSS based Reflectometry Applications	D.Rajarajan & Prasun Kumar, ISRO, India
Date: 11 December, 2019, Wednesday, 09.00-11.00 hrs.	
WG S, B, D – Joint Session on PPP Interoperability	
Date: 11 December, 2019, Wednesday, 11.20-13.00 hrs.	
Session 9: Support to Search and Rescue and Emergency Warning Services	
➤ EWS correspondence group activities	tbc, India+JPN CAO + EC
➤ NavIC-based Drifter for Rip Current Measurement	Arun Kumar & Kanika Jakhar, ISRO, India
➤ SAR/BDS Service Status 2019	HE Zehua, China Transport Telecommunications & Information Center
➤ Status update of QZSS Emergency Warning Services (EWS)	Nobutaka KISHI, National Space Policy Secretariat, Japan
Session 10: Consolidation of ICG-14 WG-B Recommendations	
➤ Old and New Recommendations	All
➤	
Date: 12 December, 2019, Thursday, 09.00-11.00 hrs.	
Session 10: ICG-14 WG-B Recommendations Finalisation	
➤ Review of Recommendations	All
➤	