

# ICG-18 WG-B Meetings (Hybrid)

## Enhancement of GNSS Performance, New Services and Capabilities

### Agenda

**Date:** October 8 - 10th, 2024

**Venue:** Tākina Wellington Convention and Exhibition Centre; Wellington (New Zealand)

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

<b>Day 1: Tuesday, 8th October 2024</b>		
<b>09:30</b>	<b>Opening Remarks of WG-B for ICG-18</b>	
09:30	> Introduction to WG-B Meeting	Co-Chairs
	> Approval of the agenda	
	> Progress on WG-B Recommendations	
09:50	Review of WG-B Work-plan	Co-Chairs
<b>10:00</b>	<b>Session 2: Space Use Sub-group</b>	
10:00	Report of Space Use Sub-group Activities	SG Co-Chairs
10:30	<i>Coffee Break</i>	
<b>10:50</b>	<b>Session 1: Space Use Sub-group</b>	
10:50	Proposal for Establishment of ICG Working Group on Lunar PNT SUSG	SG Co-Chairs & Discussion by WG-B
11:40	NASA GNSS and Lunar PNT Activities Update	J. Parker (NASA)
12:15	ESA Moonlight Programme: status and performances	J. VENTURA-TRAVESET (ESA)
12:30	<i>Lunch Break</i>	
13:30	ESA NovaMoon Programme: First local lunar augmentation differential station	J. VENTURA-TRAVESET (ESA)
13:50	LunaNet Update	C. Gramling (NASA)
14:20	China Cis-lunar PNT (virtual)	Tian Ye (CAST, China)
14:50	Pseudolite system design for Lunar PNT	A.K. Shukla (ISRO)
15:10	Differential Positioning at Lunar South Pole with LRA Concept	A.K. Shukla (ISRO)
15:40	<i>Coffee Break</i>	
16:00	<b>Joint Session with all 4 Working Groups</b>	
	<ul style="list-style-type: none"> <li>• Global Geodesy</li> <li>• Lunar PNT</li> <li>• PPP Interoperability</li> </ul>	
<b>End of WG-B Day 1 – 17:30</b>		

<b>Day 2: Wednesday, 9th October 2024</b>		
<b>08:30</b>	<b>Session 2: Applications Sub-Group</b>	
08:30	Report of Application Sub-group Activities	SG Co-Chairs
<b>09:15</b>	<b>Session 4: Technical Presentation</b>	
09:15	Harmonised GNSS User requirements	R. Capua (RTCM), M. Caporale (IAIN)
09:25	Galileo High Accuracy Service (virtual)	I. Fernandez Hernandez (EC)
09:45	Galileo's contribution to the Safety-of-Life Service (SoL)	J.P. Boyero (EC)
10:05	Developments of BDS Applications in Communication and SAR (virtual)	J. SHAN (CTT&IC, China)
<b>10:30</b>	<b>Coffee Break</b>	
10:50	Severe Space Environments and BDS Satellites	L. Kai (USTC, China)
11:15	The ionospheric impacts on Global Navigation Satellite System during solar cycle 25	L. Qi (HENU, China)
11:40	Precise baseline determination for Tandem SAR satellites (virtual)	D.Digdarsini, H.R.Shau (SAC/ISRO)
11:45	NavIC enabled Water level Gauge (NEWLG) for Water Resource Study and Management	K.K. Borsadiya (SAC/ISRO)
11:50	Interleaved Spreading Codes with Low Correlation and Proposed LunaNet AFS Signal Parameters	Prof P.V.Kumar, IISc S.Mishra,D.Dharmappa, (ISRO)
11:55	Initial results of land and ocean products of India's GNSS-R payload	D.Pandey, S.Tyagi A.Shyam (SAC/ISRO)
12:00	GNSS-based Electronic Toll Collection in India	V.BHANDARI, P.K. AGRAWAL, G.J.DOSHI
12:05	Resilience of LEO PNT in Partial Availability of GNSS Signals	R.RAI, V.BHANDARI, N.JAIN, P.K.AGRAWAL
12:10	LEO Doppler Positioning Using Broadband Communication Satellites	A.K.Shukla
12:15	NavIC performance during solar flare 2024	A. Dwivedi, M. Chawla, Ramarao G, Ganesh T, N.H.K. Reddy (ISRO)
12:20	PRN code Authentication options for NavIC	G Ramesh, H. Sau (ISRO)
<b>12:30</b>	<b>Lunch Break</b>	
<b>13:30</b>	<b>Session 5: Proposal for New Recommendations</b>	
13:30	Presentation and discussion of new Draft - Recommendations	Members of WG-B
<b>14:00</b>	<b>Session 6: WG-B Work Plan &amp; Planning towards ICG-19</b>	
14:00	Review of WG-B Workplan and discussion of updates & amendments Planning of WG-B activities up to ICG-19 Drafting of WG-B briefing to ICG-Plenary	Members of WG-B
<b>End of WG-B Day 2 – 15:00</b>		

<b>Day 3: Thursday, 10th October 2024</b>		08:30 - 10:30
<b>08:30</b>	<b>Session 6: Review of Working Group B Work Plan &amp; Objectives; Planning towards ICG-19</b>	
08:30	Review of WG-B Workplan Finalisation of WG-B briefing to ICG-Plenary	Members of WG-B
<b>End of WG-B Day 3 – 10:30</b>		