

International Committee on Global Navigation Satellite Systems

AGENDA

Eighteenth Meeting of the International Committee on Global Navigation Satellite Systems

Wellington, New Zealand

6 – 11 October 2024

Sunday, 6 Octob	per 2024
Venue: Tākina W	Vellington Convention Centre (50 Cable Street, Te Aro, Wellington)
Time: Wellington	a (New Zealand) Local Time (UTC+13 hours)
12:00 - 15:30	On-site Registration
	30TH MEETING OF THE PROVIDERS' FORUM
13:00 - 17:00	FIRST MEETING OF THE PROVIDERS' FORUM
	Chairperson: Jeffrey AUERBACH, United States
	Attended by only the Providers. The primary purpose is: (i) to discuss the agenda and meeting procedures for ICG-18 and the 30 th Meeting of Providers' Forum; (ii) to develop response or suggest amendments to the Working Groups draft recommendations; (iii) to address any other matters; (iv) to compose a temporary drafting group on the preparation of the Providers' Forum report.
13:00 - 15:00	Opening Remarks and Review of the Providers Forum Agenda
	Open Service Information Dissemination
	Service Performance Monitoring
	Spectrum Protection: Interference Detection and Mitigation
	Multi-GNSS Demonstration Project in the Asia/Oceania Region
	ICG Information Centres: Regional Centres for Space Science and Technology Education (affiliated to the United Nations)
	Potential Areas of Coordination between ICG and the international organizations
	Other matters
15:00 - 15:20	Coffee Break
15:20 - 16:20	Meeting with the Working Groups Co-Chairs
	Attended by only the Providers and the co-chairs of the Working Groups. The primary purpose is: (i) to identify issues for discussion in the working groups; and (ii) to consider their reports on the status of the implementation of the agreed recommendations from the previous ICG meetings.
16:20	First meeting of the Providers' Forum (continued as needed)
17:00	Adjourn

7 – 11 October 2024

PLENARY SESSIONS OF THE INTERNATIONAL COMMITTEE ON GLOBAL NAVIGATION SATELLITE SYSTEMS (ICG)

Monday, 7 Oct	Monday, 7 October 2024	
Venue: Tākina	Venue: Tākina Wellington Convention Centre (50 Cable Street, Te Aro, Wellington)	
Time: Wellingto	Time: Wellington (New Zealand) Local Time (UTC+13 hours)	
08:00 - 17:30	On-site Registration	
08:45	Participants called into plenary room	
09:00 - 09:40	OPENING SESSION AND OFFICIAL WELCOME	
	- Honourable Chris PENK, Minister for Land Information, New Zealand	
	- Amy GUIHOT, Australian Deputy High Commission, Australia	
	- Sharafat GADIMOVA, United Nations Office for Outer Space Affairs	
09:40 - 10:00	Group Photo/Coffee Break	
10:00 - 17:35	FIRST PLENARY SESSION OF ICG	
	Chairperson: Matt AMOS, Land Information, New Zealand	
	Attended by all. The primary purpose is for the GNSS system and augmentation providers to present the status and future plans for their systems, and an opportunity for the ICG members, associate members, observers and invited observers to provide updates on recent developments in their organizations and associations with regard to GNSS services and applications. All presenters will identify issues for discussion in the ICG plenary sessions and/or the ICG working groups meetings.	
10:00	Adoption of Agenda	
	Providers System and Service Updates	
10:05	Global Positioning System (GPS), Harold MARTIN and Christopher ERICKSON, United States of America	
10:25	Galileo System Update, Juan Pablo BOYERO, European Commission	
10:45	BeiDou Navigation Satellite System, LU Xiaochun, China	
11:05	(virtual) Global Navigation Satellite System (GLONASS), Ivan REVNYVIKH, Russian Federation	
11:25	Navigation with Indian Constellation (NavIC) and GAGAN, P.S. SURA, India	
11:35	Pseudolite System for RLV-LEX and future ORE Mission, Ashish SHUKLA, India	
11:45	Status Update on the QZSS Quasi-Zenith Satellite System (QZSS), KISHIMOTO Motohisa, Japan	
12:05	Presentations by Members, Associate Members, Observers and Invited Observers on Matters of Interest to ICG	
12:05	SouthPAN Programme Update, Matt AMOS, New Zealand	
12:25 – 13:25	Lunch Break	
13:25	Presentations by Members, Associate Members, Observers and Invited Observers on Matters of Interest to ICG (<i>continued</i>)	

13:25	Status and Perspectives of Navigation in Italy-2024 Update, Mauro CARDONE, Italy
13:40	Korea Positioning System (KPS) and Korea Augmentation Satellite System (KASS) Updates, <i>Sujin PARK and Byungseok LEE, Republic of Korea</i>
14:00	ESA Vision on the Future of Navigation, Javier BENEDICTO, European Space Agency
14:15	ESA's LEO-PNT In-Orbit Demonstrator Programme, <i>Roberto PRIETO, European Space Agency</i>
14:30	ESA's Genesis Mission – A Mission for the World, <i>Werner ENDERLE, European Space Agency</i>
14:45	ESA Moonlight, NovaMoon and Lunar Pathfinder Programmes, Javier VENTURA- TRAVESET, European Space Agency
15:00 - 15:15	Coffee Break
15:15	Presentations by Members, Associate Members, Observers and Invited Observers on Matters of Interest to ICG (<i>continued</i>)
15:15	Japan Lunar Navigation Satellite System and International Collaboration for Lunar Augmented Navigation Service (LANS), Masaya MURATA, Japan Aerospace Exploration Agency, Japan
15:25	JAXA LEO PNT and Demonstration Mission Under Planning, Masaya MURATA, Japan Aerospace Exploration Agency, Japan
15:35	Update on GNSS Space Users and Lunar PNT, <u>Joel PARKER</u> , United States, Masaya MURATA, Japan, Xinuo CHANG, China, Werner ENDERLE, European Space Agency
15:50	GDGPS High Accuracy Products for Real-Time GNSS Applications: Supporting Public and Scientific Communities, <i>Attila KOMJATHY, United States</i>
16:00	WRC-23 and Beyond, Hon FAI NG, International Telecommunication Union (ITU)
16:10	FIG - Status Updates in 2024, Ryan KEENAN, International Federation of Surveyors (FIG)
16:20	International GNSS Service: Recent Achievements toward Strategic Goals, <u>Alisson</u> <u>CRADDOCK</u> , Léo MARTIRE, Ryan RUDDICK, Elisabetta D'ANASTASIO, International GNSS Service (IGS)
16:30	(virtual) Galileo's Authentication, Ignacio FERNANDEZ, European Commission
16:50	(virtual) Development of RTCM SC-134 Messages for GNSS-based High-Integrity Precise Positioning Applications, Capua ROBERTO, Radio Technical Commission for Maritime Services (RTCM)
17:00	(virtual) India's First GNSS-Reflectometry Payload in Micro-Satellite Bus, Ananya RAY, India
17:05	(virtual) SUPARCO's GNSS activities, Iftikhar KHAN, Pakistan
17:15	UK GNSS Resilience in a PNT System of Systems, <i>Elena PAYNE and Mark BRAMMER</i> , <i>United Kingdom</i>
17:25	A Robust Global Geodesy Supply Chain, Nicholas BROWN, United Nations Global Geodetic Centre of Excellence (UN-GGCE)
17:35	Adjourn
18:00 - 20:00	Welcome Reception - Tākina Wellington Convention Centre

Tuesday, 8 October 2024	
08:00	On-site Registration
08:30 - 09:40	APPLICATIONS AND EXPERTS SEMINAR
	Use of GNSS for natural hazard preparedness, resilience and response
	Chairperson: Martine WOOLF, Geoscience Australia, Australia
	Attended by all. The primary purpose is for GNSS experts to offer their views on GNSS today and vision for the future. The audience will have an opportunity to ask the panel members questions.
08:30	<i>(virtual)</i> The Galileo Emergency Warning Satellite Service and Its Contribution to Resilience and Response to Hazards, <i>Eric GUYADER, European Commission</i>
08:40	Yearly Report of the WG-D Task Force on Applications of GNSS for Disaster Risk Reduction, <u>Naofumi TAKAMATSU</u> , Jun SHEN, Léo MARTIRE, Working Group D Task Force
08:50	GNSS in support of natural hazard preparedness and resilience, <i>Roberto PRIETO</i> , <i>European Space Agency</i>
09:00	GeTEWS Oceania Joint Workshop on GNSS enhanced Disaster Risk Reduction, John LABRECQUE, United States
09:10	Considerations for GNSS as part of a multi-sensor approach to Tsunami Early Warning, Anna KAISER and Elisabetta D'ANASTASIO, New Zealand
09:20	(virtual) IGS Real Time Service, Axel RÜLKE, International GNSS Service
09:30	(virtual) NavIC enabled Water level Gauge (NEWLG) for Water Resource Study and Management, Kalpesh Kumar BORSADIYA, India
09:35	Closing remarks
09:40 - 10:00	Coffee Break
10:00 - 15:40	WORKING GROUPS MEETINGS (Parallel Sessions)
	WG S – Systems, Signals and Services
	Co-chairs: Jeffrey AUERBACH, United States and Sergey REVNIVYKH, Russian Federation
	WG B - Enhancement of GNSS Performance, New Services and Capabilities
	Co-chairs: Nilesh M. DESAI, India, CHANG Xinuo, China and Mr. Daniel Blonski, European Space Agency
	WG C – Information dissemination and capacity building
	Co-Chairs: Sharafat GADIMOVA, United Nations Office for Outer Space Affairs and New Zealand/Australia
	WG D – Reference Frames, Timing and Applications
	Co-chairs: Zuheir ALTAMIMI, International Association of Geodesy, Leo MARTIRE, International GNSS Services and Ryan KEENAN, International Federation of Surveyors
12:30 - 13:30	Lunch Break
13:30 - 15:40	Working Groups Meetings – Parallel Sessions (continued)
15:40 - 16:00	Coffee Break

16:00 - 17:30	Working Groups Joint Meeting
	- Global Geodesy
	- Lunar PNT
	- PPP Interoperability
17:30	Adjourn

Wednesday, 9 October 2024	
08:00	On-site Registration
08:30 - 10:30	Working Group S and Working Group D Joint Meeting
	Working Groups B and C members are also invited, if interested
	- Multi-GNSS Timing Interoperability
	- International GNSS Monitoring Assessment
10:30 - 10:50	Coffee Break
10:50 - 12:30	(in parallel) Working Groups Meetings – Parallel Sessions (continued)
12:30 - 13:30	Lunch Break
14:00 - 17:30	Technical Tour
18:00 - 20:00	Social Function

Thursday, 10 Oc	Thursday, 10 October 2024	
08:30 - 10:30	Working Groups Meetings – Parallel Sessions (continued)	
10:30 - 11:00	Coffee Break	
11:00 - 14:40	SECOND PLENARY SESSION OF ICG	
	Chairperson: Matt AMOS, Land Information, New Zealand	
	Attended by all. The primary purpose is for the Working Groups to present results of their meetings, or any inter-sessional meetings held since the 17 th Meeting of ICG. Presentations will include any draft recommendations to ICG.	
11:00	- Presentation by WG B and Discussions	
11:40	- Presentation by WG C and Discussions	
12:20 – 13:20	Lunch Break	
13:20	- Presentation by WG D and Discussions	
14:00	- Presentation by WG S and Discussions	
14:40 - 15:00	Coffee Break	
15:00 - 17:30	SECOND MEETING OF THE PROVIDERS' FORUM	
	Chairperson: Jeffrey AUERBACH, United States	
	Attended by only the Providers. The primary purpose is to discuss any draft recommendations to ICG from the working groups and to develop response or suggest amendments to the draft recommendations.	
	(in parallel) Meeting of Members, Associate Members, Observers and invited observers	

	Chairperson: J.N. MARKIEL, United States
	Theme: Geodesy and related matters
	The purpose is to discuss issues of common concern that have emerged during earlier sessions on Geodesy related matters
17:30	Adjourn

Friday, 11 Octob	Friday, 11 October 2024	
08:30 - 12:30	THIRD PLENARY SESSION OF ICG	
	Chairperson: Matt AMOS, Land Information, New Zealand	
	 Attended by all. The primary purpose is to consider final recommendations as considered by the Providers' Forum. This session will also consider other ICG-related issues. Report of the chair of the 30th meeting of the Providers' Forum 	
	Other matters:	
	Terms of Reference: Terms of Reference of the ICG	
	Membership: Member Status of Pakistan in the ICG	
	Next meetings of the ICG:	
	- 19th meeting of ICG, 2025: Announcement by the Republic of Korea	
	- 20 th meeting of ICG in 2026 and the 21 st meeting of ICG in 2027: Expression of interest	
	Review and approval of the ICG-18 meeting conclusions: Joint Statement	
	Concluding Remarks	
12:30 – 13:30	Lunch Break and Adjourn	