



International Committee on
Global Navigation Satellite Systems

AGENDA

ICG WORKING GROUP D REFERENCE FRAMES, TIMING AND APPLICATIONS

Fourteenth Meeting of the International Committee on GNSS (ICG) Bangalore, India 8 – 13 December 2019

(as of 6 December 2019)

Sunday, 08 December 2019

1400-1800 Meeting with the Working Groups Co-Chairs

Tuesday, 10 December 2019

0900-1100 WG-D (Geodetic References)

1100-1300 WG-D (Timing References)

1240-1600 Joint WG-C and WG-D Session (Applications, Capacity Building and Education)

Lunch break

1300-1400

1600-1800 Joint WG-S and WG-D Session (IGMA and Timing Interoperability)

Wednesday, 11 December 2018

0900-1100 Joint WG-S, WG-B and WG-D Session (PPP Interoperability, Timing Interoperability (continuation from previous day) and other topics of mutual interest)

1100-1300 WG-D (Discussions and next steps, as needed)

PM Technical Tour

Thursday, 12 December 2018

0900-1100 WG-D (Prepare conclusions and draft recommendations)

11:30- WG-D presentation at the second plenary session of ICG

Agenda of WG-D:

(Tuesday, 10 December, 09:00 – 11:00)

1. INTRODUCTIONS
2. REVIEW OF MINUTE NOTES FROM ICG-13 MEETING
3. TASK FORCE ON GEODETIC REFERENCES

Progress and follow up of past WG-D Recommendations:

GNSS geodetic reference frames

BDCS update	Dr. Shanshi Zhou, Shanghai Astronomical Observatory, Chinese Academy of Sciences
Status update - Galileo Terrestrial Reference Frame (GTRF)	Werner Enderle (on behalf of the GGSP Consortium)
Compatibility of Terrestrial Reference Frames used in GNSS Broadcast	Todd Kawakami, US
GLONASS Geodetic Reference Frame Evolution	

General discussion, update of recommendations

4. TASK FORCE ON TIMING REFERENCES

(Tuesday, 10 December, 11:00 – 13:00)

Progress and follow up of past WG-D Recommendations:

Reports and other topics

National Time Scale UTC(SU). Current Status and development prospects	VNIIFTRI, Russia
Absolute calibration of GNSS receiver chains and cross-validation activities	Jerome Delporte, CNES
Challenges in the realization and operation of timescale systems	Akanksha AB, ISRO, India
NavIC timing receiver and NavIC time transfer receiver for TTC stations	Rajath Sadasivan & Suresh Dakkumalla, ISRO, India
NavIC disciplined atomic clocks for ground stations	Anu Arora ISRO, India
Indigenous Atomic Clock and Monitoring Unit for NavIC	Thejesh Bandi & Rajat Arora, ISRO, India

General discussion, update of recommendations

5. Joint Session with WG-C, WG-S, WG-B

(Tuesday, 10 December, 12:40 – 16:00)

Joint Session with WG-C: Applications, Education and standards*

UNGGIM Subcommittee on Geodesy, Working Group on Education, Training and Capacity Building	Allison Craddock, IGS and Mikael Lilje, FIG
Advocacy and Accomplishments in support of GNSS Enhanced Tsunami Early Warning Systems	John LaBrecque, Allison Craddock, US
Crustal Deformation Studies using GAGAN Data	Prof. P S Sunil, Cochin Univ., India
Australia's geodetic efforts in support of disaster risk reduction and capacity building (title tbc)	John Dawson, Australia
Modernising a Geodetic Datum: Case study for New Zealand (title tbc)	Graeme Blick, New Zealand

(Tuesday, 10 December, 16:00 – 18:00)

Joint Session with WG-S: Interoperability and GNSS time offsets*

Comparative study on different GNSS Time offsets monitoring methods	Haibo Yuan, China
The Problems of GNSS Time Monitoring	JSC "Russian Institute of Radionavigation and Time
On the use of UTC to support GNSS interoperability	P. Tavella, BIPM
On the use of GGTO	P. Defraigne, presented by P. Tavella, BIPM
IGS timing activities and Working group on Clock products	Allison Craddock, IGS and Jerome Delporte, CNES

***Note:** Refer to WG-S and WG-C agenda for details and timing.