



**ICG WORKING GROUP D  
REFERENCE FRAMES, TIMING AND APPLICATIONS**

**Ninth Meeting of the International Committee on GNSS (ICG)  
Prague, 10-14 November 2014**

**AGENDA**

<b>Sunday, 9 November</b>		<b>Working Group D Activity</b>
<b>16:00 – 17:00</b>	<b>Meeting with the Working Groups Co-Chairs</b>	Working Group Co-Chairs (only) to attend.
<b>Monday, 10 November</b>		<b>Working Group D Activity</b>
<b>09:00 – 18:00</b>	<b>FIRST PLENARY SESSION OF THE ICG</b> Including: <ul style="list-style-type: none"> <li>• Providers System and Service Updates</li> <li>• Presentations by Associate Members and Observers on Matters of Interest to ICG</li> <li>• GNSS Applications and/or Experts Seminar</li> </ul>	Working Group D Members to attend Plenary
<b>18:30 – 20:30</b>	<i>Welcome Dinner Mlýnec (Novotného lávka 9)</i>	
<b>Tuesday, 11 November</b>		<b>Working Group D Activity</b>
<b>09:00 – 10:40</b>	<b>Meeting of the Providers with the ICG Members, Associate Members, Observers and invited observers</b>	Working Group D Members to attend
<b>10:40 – 11:00</b>	<i>Coffee Break</i>	
<b>WORKING GROUP MEETINGS (parallel sessions of WG A and WG D)</b>		
<b>?:?:00 – 18:00</b>	<b>WG D MEETING</b>	
<b>Lunch 13:00- 14:00</b>	<ol style="list-style-type: none"> <li>1. INTRODUCTIONS</li> <li>2. REVIEW OF MINUTES FROM ICG-8 MEETING</li> <li>3. TASK FORCE ON GEODETIC REFERENCES <ol style="list-style-type: none"> <li>3.1. Discussion on progress with WG-D Recommendations: <ol style="list-style-type: none"> <li>3.1.1. Recommendation 11 on “Finalization and Publication of Templates on Geodetic and Timing References”;</li> <li>3.1.2. Recommendation 12 on “Interoperability of geodetic references among the different GNSS systems”;</li> <li>3.1.3. Recommendation 13 on “International GNSS Service Multi-GNSS Global Experiment - IGS M-GEX”.</li> <li>3.1.4. Recommendation 14 on “Interrelationship of GNSS geodetic</li> </ol> </li> </ol> </li> </ol>	

	<p style="text-align: center;"><i>references through the International Terrestrial Reference System(ITRS)</i></p> <p>3.1.5. Recommendation 15 on “<i>Improving the GNSS contribution to the ITRF defining parameters: Satellite antenna calibration; adding retro-reflector and accelerometers to GNSS satellite</i>”</p> <p>3.1.6. Recommendation 16 on “<i>Assessment of the alignments of GNSS associated reference frames to the ITRF</i>”</p> <p>3.2. Discussion on International GNSS Monitoring and Assessment</p> <p>3.3. Presentations on Recent Developments in Geodetic References;</p> <p>3.3.1. <i>Updates by the Provider reps on recent developments in GNSS geodetic reference systems/frames</i> ;</p> <p>3.3.2. <i>Transformation to Classical Horizontal Mapping Datums, by Stephen Malys</i></p> <p>3.3.3. <i>System of Geodetic Parameters "Parametry Zemli 1990" (PZ-90.11), by A. Zueva, E. Novikov, D. Pleshakov, I. Gusev</i></p> <p>3.3.4. <i>Update on Galileo Geodetic Reference Frame, by Werner Enderle on behalf of the GGSP Consortium</i></p> <p>3.4. Relevant Developments in International Standards Organization (ISO);</p> <p>3.5. Discussion of the need for more comprehensive information about new GNSS satellites to improve orbit modeling;</p> <p>3.6. Next Steps in Task Force Activities and Recommendations from Task Force on Geodetic References;</p> <p>4. TASK FORCE ON TIMING REFERENCES</p> <p>4.1. Discussion on progress with WG-D Recommendations:</p> <p>4.1.1. Recommendation 11 on “<i>Finalization and Publication of Templates on Geodetic and Timing References</i>”;</p> <p>4.1.2. Recommendation 19 on “<i>Official provision of a rapid UTC (UTCr) by the BIPM</i>”</p> <p>4.1.3. Recommendation 20 on “<i>BIPM publication of [UTC – GNSS times] and [UTC – UTC (k)_ GNSS]</i>”</p> <p>4.1.4. Recommendation 21 on “<i>On the monitoring of offsets between GNSS times</i>”</p> <p>4.2. Presentations on Recent Developments in Timing References;</p> <p>4.2.1. <i>Storage effects on space borne Rubidium Atomic Clocks, by Alak Binak, ISRO, India</i></p> <p>4.2.2. <i>Absolute calibration of GNSS time transfer equipment at CNES, by Jerome Delporte, CNES</i></p> <p>4.2.3. <i>GLONASS time and UTC, actions for decreasing their offset observed with GNSS receivers, by Felicitas Arias;</i></p> <p>4.2.4. <i>Update on the ITU-R discussion on the future of Coordinated Universal Time (UTC), by Felicitas Arias;</i></p> <p>4.2.5. <i>Presentations by Russian Federation on:</i></p> <p>4.2.5.1. <i>New level of development for the National time scale of Russia, Vitaly Palchikov;</i></p> <p>4.2.5.2. <i>Improvement of GLONASS Time Synchronization with other GNSS Time. A. Druzhin, A. Pokhaznikov, A. Tiuliakov;</i></p> <p>4.2.5.3. <i>GLONASS Time. A. Druzhin, A. Pokhaznikov, A. Tiuliakov,</i></p> <p>4.3. Next Steps in Task Force Activities and Recommendations from Task Force on Timing References;</p> <p>5. OVERARCHING ICG ACTIVITIES</p> <p>5.1. Actions arising from other ICG Working Groups;</p> <p>6. NEXT STEPS FOR WORKING GROUP D</p> <p>6.1. Review of Work Plan and emphasis for the coming year;</p> <p>6.2. Agreement on Draft Recommendations to Plenary of ICG-9.</p>
16:00-	<i>Coffee Break</i>

<b>16:20</b>			
<b>16:20-18:00</b>	<b>Joint meeting of WG-A and WG-D</b> (Working Group D Members to attend)		
<b>Wednesday, 12 November</b>			<b>Working Group D Activity</b>
<b>WORKING GROUP MEETINGS</b> ( <i>parallel sessions of WG B and WG C</i> )			
<b>09:00 – 13:00</b>	<b>WG B – Enhancement of performance of GNSS services</b>	<b>WG C – Information Dissemination and Capacity Building</b>	<b>WG-D meeting (Continue)</b>
	Primary purpose is to prepare conclusions and recommendations for full committee consideration.		WG D members to consider the draft report and recommendations arising from WG D meeting. A chance for members to discuss, amend and ratify report and recommendations prior to presentation to Plenary Session 2.
<b>11:00 - 11:20</b>	<i>Coffee Break</i>		
<b>13:00 - 14:00</b>	<i>Lunch</i>		
<b>14:00 - 16:00</b>	<b>WG-A &amp; WG-D Joint Session on IGMA Task Force</b>		
<b>16:00 - 16:20</b>	<i>Coffee Break</i>		
<b>18:00</b>	<b>City Tour followed by a Reception at GSA</b>		
<b>Thursday, 13 November</b>			<b>Working Group D Activity</b>
<b>09:00 – 11:00</b>	<b>Working Groups Parallel Sessions</b>		
	<b>Working group D to prepare conclusions and recommendations for the ICG consideration.</b>		
<b>11 :00 – 11 :20</b>	<i>Coffee Break</i>		
<b>11:20 – 16:00</b>	<b>SECOND PLENARY SESSION OF THE ICG</b>		
	Attended by all. Working Groups to present results of their meetings and presentation of any draft recommendations to the ICG.	Working Group D Members to attend Plenary	
<b>11:20</b>	<b>Presentation by WG A and Discussion</b>		
<b>12:05</b>	<b>Presentation by WG B and Discussion</b>		
<b>12:50 – 14:00</b>	<i>Lunch</i>		
<b>14:00</b>	<b>Presentation by WG C and Discussion</b>	Working Group D Members to attend Plenary	
<b>14:45</b>	<b>Presentation by WG D and Discussion</b>		
<b>15:30</b>	<b>Report on the meeting of the ICG Members, Associated Members and Observers (as needed)</b>		
<b>16:00</b>	<i>Coffee Break</i>		
<b>16:20 - 18:00</b>	<b>PROVIDERS’ FORUM MEETING (AS NEEDED)</b>	<b>Meeting of Associate Members and Observers – as needed</b>	WG D Members may attend the Meeting of Associate Members and Observers.

	<p><b>Attended by only the providers</b></p> <p>The primary purpose is to discuss any draft recommendations to the ICG from the working groups and to develop response or suggest amendments to the draft recommendations.</p>	<p>The purpose is to discuss issues of common concern that have emerged during earlier sessions.</p>	
<b>Friday, 14 November</b>			<b>Working Group D Activity</b>
<b>09:00 – 13:00</b>	<b>THIRD PLENARY SESSION OF THE ICG</b>		Working Group D Members to attend Plenary.
	<i>The primary purpose is to consider final recommendations as considered by the Providers' Forum. This session will also consider other ICG-related issues.</i>		
<b>09:00 – 10:00</b>	<b>Consideration of proposed ICG recommendations (as needed)</b>		
<b>10:00 – 11:00</b>	<b>Review and approval of meeting conclusions (joint statement, press release, etc.)</b>		
<b>11:00 – 11:20</b>	<i>Coffee Break</i>		
<b>11:20</b>	<b>Other matters:</b> <i>For planning purposes, the ICG member countries/organizations are invited to submit their expression of interest to host the ICG meetings in 2015 and 2016</i>		Working Group D Members to attend Plenary.
<b>11:45 – 12:00</b>	<b>European Union:</b> <i>Announcement for the Ninth Meeting of the ICG(Prague, Czech Republic, 2014)</i>		
<b>12:20 –</b>	Closing Statements		
<b>13:00</b>	<b>Adjourn</b>		