

United Nations/Moldova/United States of America Workshop on the Applications of Global Navigation Satellite Systems

Chisinau, Moldova, 17 – 21 May 2010

PROGRAMME

Monday, 17 May 2010

08:00 Registration of Participants (Hotel Jolly Alon)

10:00 Opening and Welcome Remarks, and Key Note presentation

- Mr. Vasile GRAMA, General Director, Agency for Land Relations and Cadastre of the Republic of Moldova
- Mr. Valeriu LAZAR, Deputy Prime Minister, Ministry of Economy of the Republic of Moldova
- Mr. Gheorghe DUCA, President of Academy of Sciences, the Republic of Moldova
- Mr. Dorin CHIRTOACA, Major of the Chisinau Municipality, the Republic of Moldova
- Mr. Hans HAUBOLD, United Nations Office for Outer Space Affairs
- Mr. Jeffrey AUERBACH, United States of America

11:00 ▪ ICG development and its activities, Ms. Sharafat GADIMOVA, United Nations Office for Outer Space Affairs

11:30 Coffee Break

**12:00 Presentation Session 1
Global Navigation Satellite Systems**

Chair: Mr. Alexandru BADEA, Romania
Rapporteur: Ms. Saida SALAHOVA, Azerbaijan

12:00 ▪ GPS and worldwide GNSS Interoperability, Mr. Jeffrey AUERBACH, United States of America

12:30 ▪ GLONASS Update, Ms. Ekaterina OLEYNIK, Russian Federation

13:00 Lunch Break

**14:30 Presentation Session 2
GNSS Reference Station Systems and Services**

Chair: Mr. Yuri FEDULOV, Belarus
Rapporteur: Ms. Gohar GEVORGYAN, Armenia

14:30 ▪ European Position Determination System (EUPOS): status and current issues, Mr. Gerd ROSENTHAL, Germany

14:50 ▪ EUPOS – a cooperation of the 17 European countries for Union use of spatial data, Mr. Ivo MILEV, Germany

15:10 ▪ EUPOS working group SQII mission and benefits: GNSS reference station service, international interoperability and quality, Mr. Janis ZVIRGZDS, Latvia

15:30 Coffee Break

16:00 Presentation Session 2
GNSS Reference Station Systems and Services (continues)

Chair: Mr. Tiberiu RUS, Romania

Rapporteur: Mr. Sergey RESHETNIK and Mr. Yuri FEDULOV, Belarus

- 16:00 ▪ Development of the EUREF GNSS services and reference networks, *Mr. Heinz HABRICH, Germany*
- 16:20 ▪ The new RTCM 3.1 transformation messages – declaration, generation from reference transformations and implementation as a service-client-concept for GNSS services, *Mr. Reiner JAGER, Germany*
- 16:40 ▪ EUPOS for national and international research, *Mr. Janis BALODIS, Latvia*

17:00 Discussion Session 1
Use and Implementation of GNSS Technologies

Moderators: UN OOSA and Moldova

- Issues and concerns, requirements of implementation, possibilities of success, mechanisms and resources of implementation

17:45 Adjourn

18:00 Welcoming Reception, Hotel Jolly Alon

Tuesday, 18 May 2010

09:00 Presentation Session 3:
GNSS Reference Station Systems and Services: National Projects

Chairp: Ms. Elena BUSCH, Norway

Rapporteur: Mr. Janis BALODIS, Latvia

- 09:00 ▪ Establishment of MoldPOS, *Ms. Maria OVDII and Mr. Alexandr CEBANU, Moldova*
- 09:20 ▪ Development of geodetic data bases for real time MoldPOS service, *Mr. Vasile CHIRAC, Moldova*
- 09:40 ▪ Romanian Position Determination System – ROMPOS, *Mr. Tiberiu RUS, Romania*
- 10:00 ▪ Development of the Ukrainian GNSS-based positioning-timing-navigation system (UAPOS), *Mr. Kostiantyn VOLOKH, Ukraine*
- 10:20 ▪ Realizing SC42 with WGS84, *Mr. Erkin MIRMAKHMUDOV, Uzbekistan*
- 10:40 ▪ Global Navigation Satellite Systems: Armenian Experience, *Mr. Vardges HAMBARDZUMYAN, Armenia*

11:00 Coffee Break

11:30 Presentation Session 4
GNSS Applications

Chair: Mr. Renato FILJAR, Croatia

Rapporteur: Ms. Tarana ATAKISHIYEVA, Azerbaijan

11:00 Coffee Break

11:30 Presentation Session 7
International Space Weather Initiative

Chair: Mr. Talal DARWICH, Lebanon

Rapporteur: Mr. Vardges HAMBARDZUMYAN, Armenia

- 11:30 ▪ Research on space weather effects on GNSS performance in Croatia, *Mr. Renato FILJAR, Croatia*
- 11:50 ▪ Ionospheric total electron content variations observed during Tashkent earthquakes and solar eclipses, *Mr. Bobomurat AHMEDOV, Uzbekistan*
- 12:10 International Space Weather Initiative, *Ms. Sharafat Gadimova, United Nations Office for Outer Space Affairs*

12:30 Lunch Break

14:00 – Technical Visit/City Tour
18:00

Thursday, 20 May 2010

09:00 Presentation Session 8
Remote Sensing with GNSS and Case Studies

Chair: Mr. Kostiatyn VOLOKH, Ukraine

Rapporteur: Mr. Bobomurat AHMEDOV, Uzbekistan

- 09:00 ▪ Remote sensing in the development of the navigation satellite systems in Azerbaijan, *Ms. Tarana ATAKISHIYEVA, Azerbaijan*
- 09:20 ▪ Remote sensing for vulnerability assessment and hazard mapping in Lebanon, *Mr. Talal DARWICH, Lebanon*
- 09:40 ▪ Application of Global Positioning System in Natural Disaster Studies, *Ms. Saida SALAHOVA, Azerbaijan*
- 10:00 ▪ The legal aspects of the GNSS and the METIS project, *Ms. Nazli CAN, Turkey*
- 10:20 ▪ Satellite information in economy management, *Ms. Gohar GEVORGYAN, Armenia*

10:40 Working Group Sessions

Working Group 1: Capacity Building and Institutional Strengthening

Working Group 2: Geodetic Reference Networks

Working Group 3: Specific GNSS Applications

11:00 Coffee Break

11:30 Working Group Sessions (continues)

13:00 Lunch Break

14:30 Working Group Sessions (continues)

15:30 *Coffee Break*

16:00 Discussion Session 3: Round Table to Finalize the Recommendations/Observations

17:30 Adjourn

18:00 Gala Dinner (“Casa Vinului”)

Friday, 21 May 2010

09:00 Plenary Closing Session

- Summary reports of presentation sessions
- Summary report of discussion sessions: presentation of proposals and recommendations/observations consolidated at the discussion sessions

11:00 *Coffee Break*

11:30 Closing Remarks

- Mr. Hans Haubold, *United Nations Office for Outer Space Affairs*
- Mr. Vasile GRAMA, *General Director, Agency for Land Relations and Cadastre of the Republic of Moldova*

12:00 Adjourn