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)
00.00	
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 15:10	 EUPOS – a cooperation of the 17 European countries for Union use of spatial data, Mr. Ivo MILEV, Germany EUPOS working group SQII mission and benefits: GNSS reference station service, interpolational interpolation and guality. Mr. Iapia 7/VIDC7DS I of via
	international interoperability and quality, Mr. Janis ZVIRGZDS, Latvia

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, <i>Mr. Janis BALODIS, Latvia</i>
17:00	Discussion Session 1 <u>Use and Implementation of GNSS Technologies</u>
	ose and implementation of GNSS Technologies
	Moderators: UN OOSA and Moldova
	 Issues and concerns, requirements of implementation, possibilities of success,
	mechanisms and resources of implementation

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
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Chair: Mr. Renato FILJAR, Croatia

Rapporteur: Ms. Tarana ATAKISHIYEVA, Azerbaijan

11:30	 Aviation benefits of GNSS augmentation, Mr. Jeffrey AUERBACH, United States of America
11:50	 Progress of positional accuracy of orthophoto maps based on GPS/INS systems, Mr. Mircea JUC, Romania
12:10	 State of the art in mobile terrestrial laser scanning systems in Romania and at international level, Mr. Vlad – Gabriel OLTEANU, Romania
12:30	 Approaches to GNSS applications in Belarus' large-scale farm production, Mr. Yuri FEDULOV and Mr. Sergey RESHETNIK, Belarus
13:00	Lunch Break
14:30	Presentation Session 5
	Initiatives/Experiences of the Use and Implementation of GNSS Technology
	Chair: Mr. Janis ZVIRGZDS, Latvia Rapporteur: Ms. Nestan BEJANISHVILI, Georgia
14:30	 GNSS as a component of national infrastructure, Mr. Renato FILJAR, Croatia
14:50	 Integrated geodetic infrastructure as a support to national and international GNSS projects: case study of the Geodetic Observatory Pecný, Czech Republic, Mr. Pavl NOVÁK, Czech Republic
15:10	 Present situation of precise real-time GNSS positioning market in Moldova, Mr. Andrei IACOVLEV, Moldova
15:30	Coffee Break
16:00	Discussion Session 2
	Developing Partnerships and Networks
	Moderators: UN OOSA and Moldova
	 Discuss plans, framework for a mechanism of regional cooperation; follow-up projects and initiatives.
18:00	Adjourn

Wednesday, 19 May 2010

09:00	Presentation Session 6
	Education and Training in the Use and Applications of GNSS Technologies
	Chair: Mr. Erkin MIRMAKHMUDOV, Uzbekistan
	Rapporteur: Ms. Nazli CAN, Turkey
09:00	 Development of a complete graduation training centre for geomatics and GNSS,
	Mr. Alexandru BADEA, Romania
09:20	 Distant learning of satellite navigation specialists in the Russian Educational Centre,
	Mr. Pavel KAZAKOV, Russian Federation
09:40	 The Moscow State University of geodesy and cartography education system and the
	global navigation satellite systems applications, Mr. KUPRIYANOV, Russian Federation
10:00	 Fundamentals Of Satellite Navigation Distance Learning Course, V.V. MALYSHEV,
	A.V. STARKOV, V.V. PANARIN, Russian Federation
10:20	Regional Centres for Space Science and Technology Education affiliated to the United
	Nations, Mr. Levent CANTURK, United Nations Office for Outer Space Affairs

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 – 18:00	Technical Visit/City Tour

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
12:00	 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 Adjourn