United Nations/Azerbaijan/United States of America/European Space Agency Workshop on the Applications of Global Navigation Satellite Systems

Baku, Azerbaijan, 11 – 15 May 2009

PROGRAMME

Monday, 11 May 2009		
08:00	Registration of Participants	
10:00	Opening and Welcome Remarks, and Key Note Presentations	
10:00	 H.E. Mr. Ali ABBASOV, Minister of Communication and Information Technologies of the Republic of Azerbaijan 	
10:10	 Mr. Hans HAUBOLD, United Nations Office for Outer Space Affairs, Austria 	
10:20	 Mr. Kenneth HODGKINS, United States of America 	
10:30	 Mr. Helmut SPITZL, European Commission 	
10:40	■ Prof. Roald SAGDEEV, Maryland University, United States of America	
11:10	 The United Nations and GNSS: Global in Space and in Time, Ms. Sharafat GADIMOVA, United Nations Office for Outer Space Affairs 	
11:30	Coffee Break	
12:00	Presentation Session 1: Overview of Global Navigation Satellite Systems in Operation and in Development	
	Chairperson: Sharafat Gadimova, United Nations Office for Outer Space Affairs Rapporteur: Alexandru Badea, Romanian Space Agency, Romania	
12:00	 U.S. Space-based Positioning, Navigation and Timing (PNT) Policy and International Cooperation, Mr. Kenneth HODGKINS, United States of America 	
12:20	 GLObal NAvigation Satellite System (GLONASS), Mr. Alexander SERDYUKOV, Federal Space Agency, Russian Federation 	
12:40	 Galileo and EGNOS Programmes' development, Mr. Helmut SPITZL, European Commission 	
13:00	Lunch Break	
14:30	Presentation Session 2: Overview of Global Navigation Satellite Systems in Operation and in Development (continues)	
	Chairperson: Alexandru Badea, Romanian Space Agency, Romania Rapporteur: Sharafat Gadimova, United Nations Office for Outer Space Affairs	
14:30	 COMPASS/BeiDou, Mr. Gang WANG, Beijing Global Information Centre of Application and Exploitation, China 	
14:50	 Indian Regional Navigation Satellite System (IRNSS), Mr. Tsering TASHI, Indian Space Research Organization, India 	
15:10	 TRIUMPH, the first interoperable GNSS technology, Mr. Javad ASHJAEE, Javad GNSS, United States of America 	
15:30	Coffee Break	

16:00 16:20	 Combination of GNSS and GIS technologies for remote sensing purposes, Ms. Xosiyyat ISMATOVA, National Academy of Aviation, Azerbaijan Perspectives of GNSS applications in Azerbaijan Air Navigation Services, Mr. Farhan GULIYEV, Azerbaijan AirNavigation, Azerbaijan 	
16:20 – 17:30	Discussion Session 1: Using and implementation of GNSS technologies	
	 Issues and concerns, requirements of implementing, possibilities of success, mechanisms and resources of implementing 	
18:00	Welcoming Reception	
Tuesday, 12 May 2009		
09:00	Presentation Session 3: Global Navigation Satellite Systems Infrastructure	
	Chairperson: Ms. Maria OVDII, Agency for Land Relations and Cadastre, Moldova Rapporteur: Mr. Akjol DJENALIEV, Kyrgyzstan	
09:00	 EUPOS: Example of a regional full scale accuracy ground-based differential (D)GNSS infrastructure, Mr. Gerd ROSENTHAL, International EUPOS Steering Committee Office, Germany 	
09:20	 Introduction to GNSS Network RTK, Mr. Ezzedine DJERBI, Leica Geosystems AG, Switzerland 	
09:40	 RTK Network LatPos in Latvia, Mr. Janis ZVIRGZDS, Latvia Geospatial Information Agency, Latvia 	
10:00	 Ukrainian GNSS-based positioning timing navigation system (UAPOS), Mr. Kostiantyn VOLOKH, National Space Agency of Ukraine, Ukraine 	
10:20	 Creation of ground-based infrastructure of differential global navigation satellite system in the Republic of Kazakhstan, Mr. Marat NURGUZHIN & Mr. Sabit MURAT, JSC «National Company «Kazakhstan Gharysh Sapary» T, Kazakhstan 	
10:40	 SIRGAS: An international collaborative enterprise of the geodetic community in Latin America and the Caribbean, Mr. Claudio BRUNINI, Argentina 	
11:00	Coffee Break	
11:30	Presentation Session 4: International/Regional Experiences of the use and implementation of GNSS technologies	
	Chairperson: Mr. Mr. Tsering TASHI, Indian Space Research Organization, India Rapporteur: Mr. Igor IBRAGIMOV, Uzbekistan Academy of Sciences, Uzbekistan	
11:30	 International Space Weather Initiative, Mr. Hans HAUBOLD, United Nations Office for Outer Space Affairs 	
11:50	 Regional cooperation in the field of space weather studies and applications in the southeastern and east central Europe and in the Caucasus region, Mr. Elchin BABAYEV, Azerbaijan National Academy of Sciences, Azerbaijan 	
12:10	 Abdus Salam ICTP – Boston College partnership for training in GNSS science and Technology, Mr. Sandro Radicella, The Abdus Salam ICTP, Italy 	
12:30	 Energy System: remote control, Mr. Hikmet HASSANOV, TV-Radio Broadcasting and Satellite Communication Production Unit, Azerbaijan 	
13:00	Lunch Break	
14:30	Presentation Session 5: Education and training on GNSS	

Chairperson: Ms. Asli OLMEZ, Ministry of Public Works and Settlement of Turkey, Turkey Rapporteur: Mr. Alaa Aldin ZEIN, General Organization of Remote Sensing, Syria

- 14:30 Experience of CRASTE-LF in capacity building in space science and technology: Introduction of new technology, *Mr. Abderrahmane TOUZANI, CRASTE-LF, Morocco*
- 14:50 GNSS education activities in ISMB, *Ms. Gabriela POVERO, Instituto Politechnoco de Torino, Italy*
- 15:10 GNSS: A view of an academic "Stakeholder", Mr. Moustafa BARAKA, Cairo University, Egypt
- 15:30 Coffee Break

16:00 Discussion Session 2: Developing Partnerships and Networks

Discussion Panel:

- Prof. Roald SAGDEEV, Maryland University, United States of America
- Mr. Gerd ROSENTHAL, International EUPOS Steering Committee Office, Germany
- Mr. Claudio BRUNINI, SIRGAS, Argentina

Discuss plans, framework for a mechanism of regional cooperation; follow-up projects and initiatives.

Discussion paper: Developments of the EUREF GNSS Services and Reference Networks, Mr. Johannes Ihde, EUREF, Germany

18:00 Adjourn

Wednesday, 13 May 2009

09:00 Presentation Session 6: GNSS applications and technology development

Chairperson: Mr. Janis ZVIRGZDS, Latvia Geospatial Information Agency, Latvia Rapporteur: Mr. Ali SADEGHI NAEINI, Iranian Space Agency, Iran

- 09:00 GLONASS technologies applications in mining industry, *Mr. Mark Schmulevich, Federal Space Agency, Russian Federation*
- 09:20 Use of GPS in the transportation in the city of Baku, *Mr. Sadraddin Mammadov, Ministry of Transportation, Azerbaijan*
- 09:40 Architecture and applications of software GPS receiver, *Mr. SYED ZAHID JAMAL, SUPARCO, Pakistan*
- 10:00 Use of GNSS technologies in Uzbekistan for studying of geodynamical and ionospheric processes, *Mr. Igor IBRAGIMOV, Uzbekistan Academy of Sciences, Uzbekistan*
 - Use of GIS/RS for environmental monitoring and mapping, Mr. Alchin SHIRINZADE, Ms. Shafag MUTTALIBOVA and Mr. Rauf RAGIMOV, National Aerospace Agency, Azerbaijan
- GPS Accuracy enhancement in GIS/RS civilian projects in Syria, *Mr. Alaa Aldin ZEIN,* General Organization of Remote Sensing, Syria

11:00 Coffee Break

10:20

11:30 Presentation Session 7: GNSS applications: National Programmes

Chairperson: Mr. Abderrahmane TOUZANI, CRASTE-LF, Morocco

Rapporteur: Mr. Jamshed KAMALOV, Tajikistan

11:30	 Information Centre: status and development, Mr. Alchin SHIRINZADE and G. ABBASLI, National Aerospace Agency, Azerbaijan 	
11:50	 ROEnvGeoPortal: an advanced support for environmental monitoring and dissemination of spatial data at national level in Romania, Mr. Alexandru BADEA, 	
12:10	Romanian Space Agency, Romania Development of GNSS applications in Poland, Mr. Stanislav OSZCZAK, University of Warmia and Mazury in Olsztyn, Poland 	
12:30	 Use of GNSS in National spatial data infrastructure project, Ms. Asli OLMEZ, Ministry of Public Works and Settlement of Turkey, Turkey 	
12:50	 GNSS applications in Iran, Mr. Ali SADEGHI NAEINI, Iranian Space Agency, Iran 	
13:10	Lunch Break	
14:30 – 17:00	Technical Visit/City Tour	
Thursday, 14 May 2009		
09:00	Presentation Session 8: GNSS applications: Case studies	
	Chairperson: Mr. Moustafa BARAKA, Cairo University, Egypt Rapporteur: Mr. SYED ZAHID JAMAL, SUPARCO, Pakistan	
09:00	 Positioning infrastructure for sustainable land administration: the case study, Ms. Maria OVDII, Agency for Land Relations and Cadastre, Moldova 	
09:20	 Development of GPS technology in Kyrgyzstan, Mr. Akjol DJENALIEV, Kyrgyz State University of Construction, Transportation and Architecture, Kyrgyzstan 	
09:40	 GNSS Technology and high resolution satellite data for detection and assessment warning vulnerability risk, Ms. Sevda IBRAHIMOVA, Azerbaijan National Aerospace Agency, Azerbaijan 	
10:00	 Use of GNSS in Tajikistan, Mr. Jamshed KAMALOV, Nuclear and Radiation Safety Agency, Tajikistan 	
10:20	Working Groups Sessions	
	Working Group 1: Capacity Building and Institutional Strengthening	
	Working Group 2: Geodetic Reference Network	
	Working Group 3: Specific global navigation satellite systems applications	
11:00	Coffee Break	
11:30	Working Groups Sessions (continues)	
13:00	Lunch Break	
14:30	Working Groups Sessions (continues)	
15:30	Coffee Break	
16:00	Discussion Session 3: Round table to finalize the recommendations/observations	

Friday, 15 May 2009

09:00 Plenary Closing Session

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

11:00 Coffee Break

11:30 Closing remarks

- Concluding Remarks, Mr. Hans Haubold, United Nations Office for Outer Space Affairs
- Concluding Remarks, Mr. Arif Mekhtiev, Azerbaijan

12:00 Adjourn