



Development of a High Capacity Real-Time GNSS
Positioning Service for Moldova MOLDPOS
– www.moldpos.eu –

Minutes of the second meeting
at Karlsruhe University of Applied Sciences
23-26 November 2011 – Karlsruhe, Moldova

Karlsruhe, 26-11-2010

Participants from Moldova:

Dr. Vasile Grama – General Director of the Agency for Land Relation and Cadastre (ARLC).
Dr. Vasile Chiriac – As. Prof. Technical University of Moldova (TUM)

Participants from Germany:

Prof. Dr. -Ing. Reiner Jäger
Dipl.-Ing. (FH) Peter Spohn
MSc. Ghadi Younis
Karlsruhe University of Applied Sciences (HSKA)
Institute of Applied Research (IAF) and Faculty of Geomatics

Subjects:

- Presentation of the DFHBF-based quasigeoid computations with respect to a DFHBF quasigeoid database (DB) for the old Baltic normal-height system a DFHBF quasigeoid DB for the new Baltic normal-height system 1977 in Moldova.
- Presentation of the GOCA and MONIKA geomonitoring concepts and software, and practical demonstration in the laboratory fo GNSS and Navigation.
- MONIKA test computations Chiriac/Spohn with GNSS reference station of TUM and IGS-stations.
- Excursion to Bruchsal castle and to MONIKA/GOCA cooperation partner VMT, Bruchsal.
- Work on TEMPUS-project “Precise MultiSensor Positioning, Navigation and Mobile Data Acquisition in Modern GNSS Infrastructures (PNAVG)”.
- Work on PF7 project “Establishment of a Cross-border Geosensor Network for Geodynamic Research and Hazard Mitigation”.
- Work on MOLDPOS project continuation and final report.

Conclusions and recommendations:

- The two country-wide DFHBF-based quasigeoid databases for Moldova - related to old Baltic normal-height system (for a use in the main cities) and the new Baltic system 1977 for country-wide use, respectively - were classified by the DFHBF-adjustment statistics to be again (1-2) cm accurate. These 2 DFHBF-based quasigeoid databases will be tested out in GNSS field-tests under the responsibility of Mr. Andrei Iacovlev and Prof. Dr. Vasile Grama.
- A transformation parameter-database for the horizontal datum transformation s part of MOLDPOS will be computed at TUM under the responsibility of Mr. Andrei Iacovlev.
- The concept and realization of a use of MONIKA for a country-wide deformation integrity monitoring of the GNSS-reference stations, and in addition with the capability for the integration of regional geomonitoring arrays for hazard mitigation, will be followed by Prof. Dr. Chiriac and Dipl.-Ing. (FH) Peter Spohn.
- The MONIKA test computations Chiriac/Spohn with data of the GNSS reference station of TUM and IGS-stations were successful. The implementation using data of TUM and surrounding GNSS-stations from neighbouring countries, EUREF and IGS will be continued.
- The topic of use the GNSS reference stations as a geosensor network for geodynamic research and hazard mitigation shall be followed in the frame of an FP7 application, titled “Establishment of a Cross-border Geosensor Network for Geodynamic Research and Hazard Mitigation”.
- The work on TEMPUS IV project for the elaboration of curricula in Bachelor, Master and PhD study programs, with a focus on the topics “Precise MultiSensor Positioning, Navigation and Mobile Data Acquisi-

tion in Modern GNSS Infrastructures (PNAVG)” will be continued to keep the deadline for proposals according to EACEA 32/2010. From Karlsruhe site Prof. Dr. H. Saler and Prof. Dr. R. Jäger will be responsible, from TUM site Prof. Dr. V. Chiriac.



**Project coordinator from
Moldavian site**

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