Geophysical Research Abstracts
Vol. 15, EGU2013-14233, 2013
EGU General Assembly 2013

Reference Network Real-Time Services Control Techniques

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Differential corrections and services for real-time kinematic method (RTK) in many cases are used to support survey being base for administration decision. For that reason, services which allow to perform GNSS measurements should be constantly monitored to minimize the risk of any errors or unexpected gap in observation. System providing such control is the subject of the work carried out under a grant NR09-0010-10/2010 conducted by the Military University of Technology. This study was made to develop the concept of monitoring real-time services of Polish reference network ASG-EUPOS and the implementation of software providing users information on system accuracy. The main objectives of all concepts were: maximum use of existing infrastructure while minimizing the cost of installation of new elements, providing users calculation results via the ASG-EUPOS website. In the same time concept assume openness of the module that allow the successive development of applications and integration with existing solutions. This paper present several solutions and algorithms which have been implemented and tested. It also consist some examples of data visualization methods.