

GNSS DEFORMATION MONITORING

HIGHLIGHTS:

- Robust and Sturdy GNSS Receivers
- Fully Automatic Long Time Monitoring of Large Scale Objects with High Accuracy
- Easy Hardware Setup and Installation
- KRONOS Link



APPLICATIONS:

The main field of application is the monitoring of deformation of natural objects such as landslides or large scale structures like dams, bridges or high-rise buildings over longer periods of time. Permanent installations typically consist of pillars for accommodating the sensors, a local control PC, protection means and provide early-warning features.

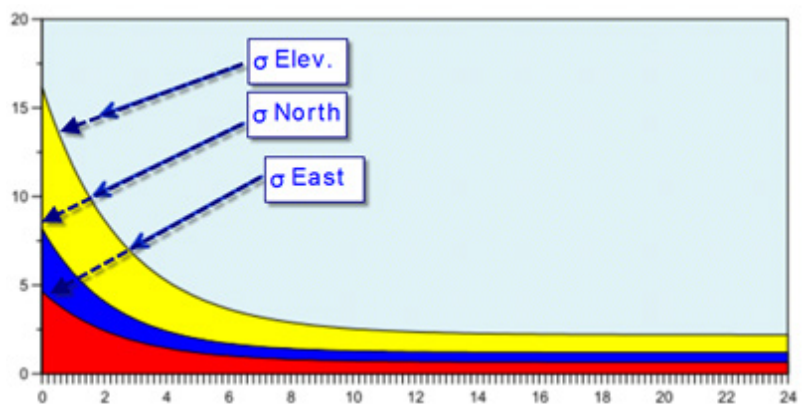
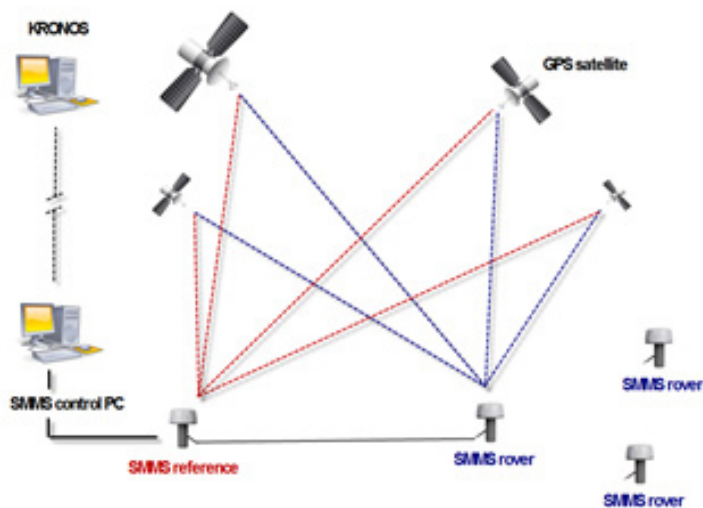


WORKING PRINCIPLE

GEODATA offers static GNSS deformation monitoring with latest-generation GNSS sensors and equipment. We design, execute and evaluate GNSS campaigns with our experienced staff, world-wide.

For permanent monitoring we offer the installation and maintenance of the automatic Realtime GNSS monitoring system SMMS (Slow Motion Measurement System) that has

been developed by the FH Bochum (GER). The system is based on low-cost single-frequency receivers carrying out GPS phase observations on L1, yielding a more economical solution for geodetic applications than comparable systems. It is specifically designed for monitoring object movements < 10 cm/min. The system software uses a semi-kinematic algorithm and special filtering techniques

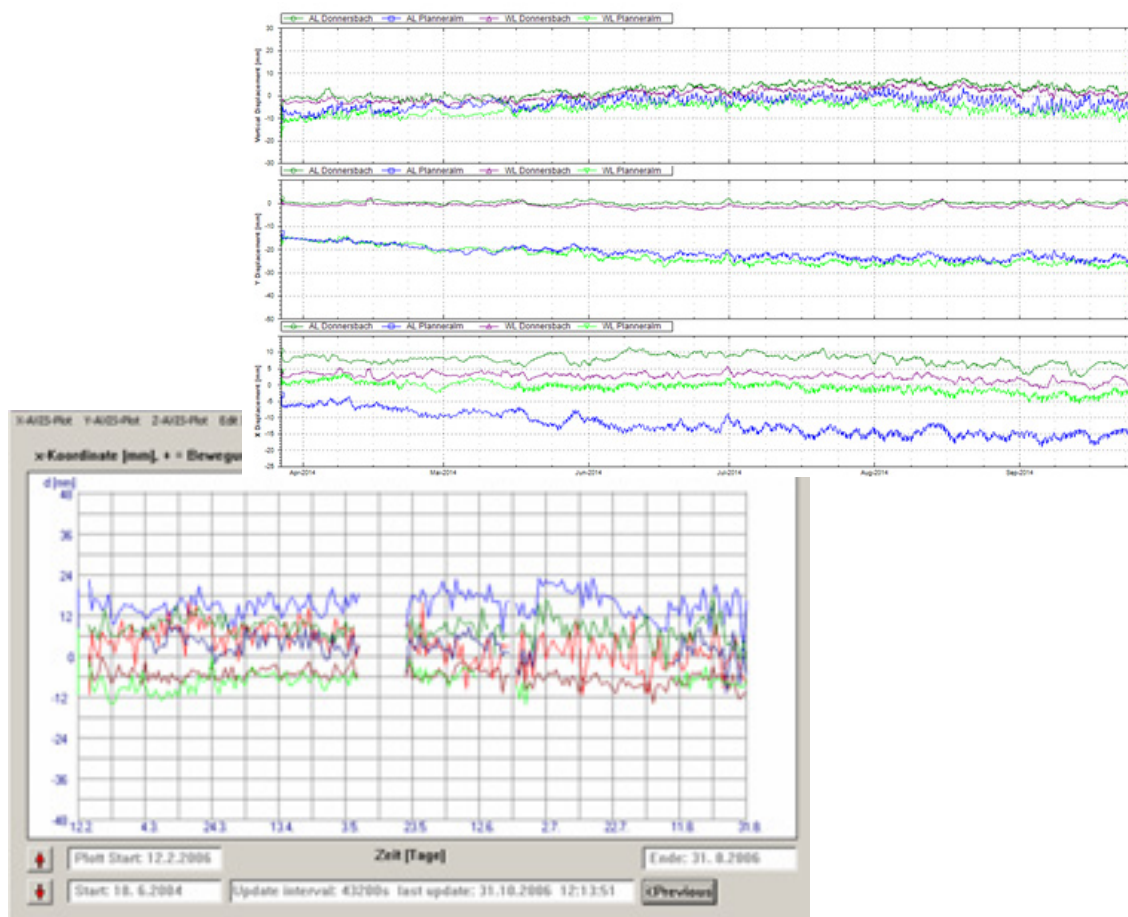


The monitoring system is controlled by a local PC that manages and processes the data and also provides an early-warning service via SMS. At regular time intervals (e.g. every hour) the data can be transferred automatically (e.g. every hour) the data can be transferred automatically (e.g. via internet) to our web-based information system

KRONOS, where the results can be stored, visualised and analysed in more detail. Additionally, the automatic alarming and reporting services of KRONOS can be used, if required.



REPORT EXAMPLES



Header Image by Stone36/shutterstock.com



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