



Enhancement of EPN real-time activities

W. Söhne

Bundesamt für Kartographie und Geodäsie

Frankfurt am Main, Germany



- **Motivation**
- **Goals**
- **Topics**
- **Timescale**



- **GNSS real-time data streaming has been successfully developed within EUREF**
- **Special Project “EUREF-IP” was created in 2002**
- **Currently ~ 93 EPN stations with real-time capability**
- **SP EUREF-IP moved towards EPN routine operations end of 2007**

- **GNSS development has been accelerated**
 - from daily to hourly files (data)
 - from post-processing to near real-time (products)
- **Current evolution is going towards**
 - Real-time data streaming
 - Real-time monitoring and analysis
- **With the improvement of products and models the GNSS analysis has been extended**
 - From relative positioning
 - To single point positioning



- **Options for next real-time activities**
 - **Setup of a new Special Project**
 - Needs charter, ToR, CfP, description (web)?
 - Expects input from the EUREF/EPN community
 - **No setup of a new Special Project**
 - New elements in the “Products” field instead?
 - Currently no EPN RT products exist



➤ **Goals for the new SP**

- **General: get more experience with real-time analysis**
- **Extension or modification of existing EPN products**
- **Coming up with new EPN products or services**



➤ **Potential topics within the new SP**

- **Analysis**
 - **Derivation of GPS+GLONASS clock corrections for Europe**
 - **Precise Point Positioning**
 - **Troposphere, ionosphere parameters**
- **Standardization issues**
- **Dissemination**
 - **Streaming of orbit and clock corrections**
 - **Streaming of other products**
- **Other issues**
 - **Consistent modelling**
 - **Intermediate products**



➤ **First / next steps**

- **General announcement at the EUREF symposium**
- **Paper to present at the TWG meeting Nov '08**
- **Implementation of a EPN RT webpage**
- **Announcement (CfP??) via EUREF mail**