

# **2005 EUREF Symposium**

## **Report of the Technical Working Group**

Zuheir Altamimi

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Vienna, Austria

# Current Member List

- Zuheir Altamimi, France  
*(TWG Chairman)*
- Claude Boucher, France
- Elmar Brockmann, Switzerland
- Carine Bruyninx, Belgium  
*EPN Coordinator*
- Alessandro Caporali, Italy
- Werner Gurtner, Switzerland
- Helmut Hornik, Germany  
*Secretary*
- Johannes Ihde, Germany  
*Eurogeographics*
- Ambrus Kenyeres, Hungary  
*Geoid Commission*
- Jaakko Mäkinen, Finland
- Hans van der Marel, Netherlands  
*EUREF Campaign Data Base*
- Jaroslav Simek, Poland
- Joao Torres, Portugal  
*EUREF President*
- Georg Weber, Germany  
*Troposphere, EUREF-IP*

## Permanent guests with special charges

- Heinz Habrich, Germany      *EPN Analysis Coordinator*
- Hermann Seeger, Germany      *Permanent consultant*
- Guenter Stangl, Austria      *EPN Data Flow Coordinator*

# Chairmen of the WG

- 1992 – 1999 Claude Boucher
- 1999 – 2003 Werner Gurtner
- 2003 – Zuheir Altamimi

## **TWG Meetings 2003-2005**

<b>38</b>	<b>Vienna</b>	<b>31.05.2005</b>
<b>37</b>	<b>Brussels</b>	<b>14-15.03.2005</b>
<b>36</b>	<b>Prague</b>	<b>8-9.11.2004</b>
<b>35</b>	<b>Bratislava</b>	<b>01.06.2004</b>
<b>34</b>	<b>Budapest</b>	<b>22-23.03.2004</b>
<b>33</b>	<b>Frankfurt</b>	<b>10-11.11.2003</b>

# **Main Tasks, Events and Activities (1)**

- **EUREF Terms of Reference**
- **EUREF name protection**
- **EUREF Permanent Network EPN (~160 stations) :**
  - **Management by the CB**
  - **16 Analysis Centers**
  - **EUREF Weekly Combined Solutions**
  - **Time series analysis of EPN station positions**
  - **contributions to ESEAS (European Sea Level Service) and IGS-TIGA (Tide Gauge Benchmark Monitoring)**
- **European Velocity Field (EPN + ...)**
- **Campaign Validation**

## **Main Tasks, Events and Activities (2)**

- **European Combined Geodetic Network ECGN**
- **Unified European Levelling Network (UELN)**
- **Densification of EUVN ==> Contribution to a European Geoid**
- **Troposphere Project**
- **Real-time activities: EUREF-IP Special Project**
- **GPS Meteorology: relation with Meteorological organisations**
- **Certification of Non-EUREF GPS Permanent stations**

# Campaign Validations

- **Great Britain 01**  
(Recomputation)
- **Armenia 02**
- **Austria 02**
- **Hungaria 02**



# **EUREF Relations & Cooperations**

- **EUREF within IAG structure:**
  - IAG Commission 1: Reference Frames – President: H. Drewes
  - Sub-Com. 1.3: Regional Reference Frames – President: Z. Altamimi
  - Regional Sub-Com 1.3a: EUREF – Chair: João Agria Torres
- **Relation with Eurogeographics**
  - Expert Group Geodesy
  - European Coordinate Reference Systems (CRS): <http://crs.ifag.de/>

## **Work to continue...**

- **Continue to Promote the adoption of the ETRS89 and EVRS by European countries**
- **Continue to improve EUREF products and contribution to IAG and its services**
- **Prepare the Galileo era...  
EUREF should be present**