



EUREF Symposium

Report of the Technical Working Group

Zuheir Altamimi

June 2, 2004

Bratislava, Slovakia



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
- ◆ Bjoern Geirr Harsson, Norway
- ◆ 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*



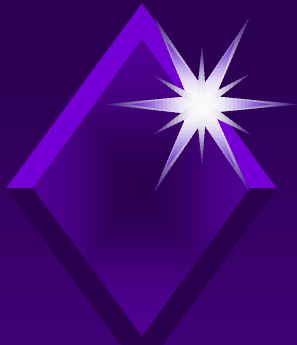
Chairmen of the WG

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



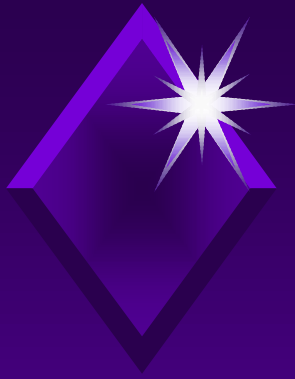
TWG Meetings 1999-2004

35	Bratislava	01.06.2004
34	Budapest	22-23.03.2004
33	Frankfurt	10-11.11.2003
32	Toledo	3 .6.2003
31	Paris	6-7.3.2003
30	Delft	7-8.11.2002
29	Ponta Delgada	4.6.2002
28	Berne	14.-15.3.2002
27	Padova	1.-2.10.2001
26	Dubrovnik	15.5.2001
25	Munich	15.-16.2.2001
24	Lisbon	9.-10.10.2000
23	Tromso	21.6.2000
22	Brussels	20.-21.3.2000
21	Dresden	28 - 29.10.1999



Main Tasks, Events and Activities (1)

- ◆ EUREF Terms of Reference
- ◆ EUREF name protection
- ◆ EUREF Permanent Network EPN (~150 stations) :
 - ◆ Management by the CB (updated guidelines...)
 - ◆ 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 (follow on COST716 project)
- ◆ **Certification of Non-EUREF GPS Permanent stations**



Campaign Validations

- ◆ Croatia 94/95/96
(Recomputation)
- ◆ Balear 98
- ◆ Moldavia 99
- ◆ Sweden 99
- ◆ Great Britain 01
(Recomputation)
- ◆ Armenia 02
- ◆ Slovenia 94-96
(Recomputation)
- ◆ Slovakia 01
- ◆ Poland 01
- ◆ Austria 02
- ◆ Hungaria 02



EUREF Relations & Cooperations

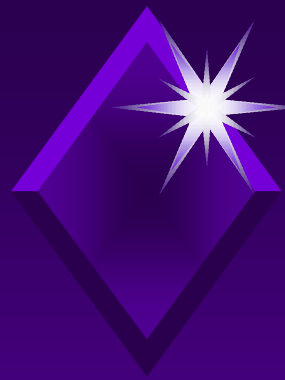
- ◆ **EUREF in the new IAG structure:**
 - ◆ **IAG Commission 1: Reference Frames – President: H. Drewes**
 - ◆ **Sub-Com. 1.3: Regional Reference Frames – President: Z. Altamimi**
 - ◆ **Regional Sub-Com 1.3a: EUREF – Chair: João Agria Torres**

- ◆ **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
- ◆ Prepare the Galileo era...
EUREF should be present



Provisional Locations of Galileo Sensor Stations

