



ACTIVITIES AND NEW INITIATIVES OF THE EUREF TECHNICAL WORKING GROUP



EUREF 2009 symposium Florence, Italy May 26-30, 2009

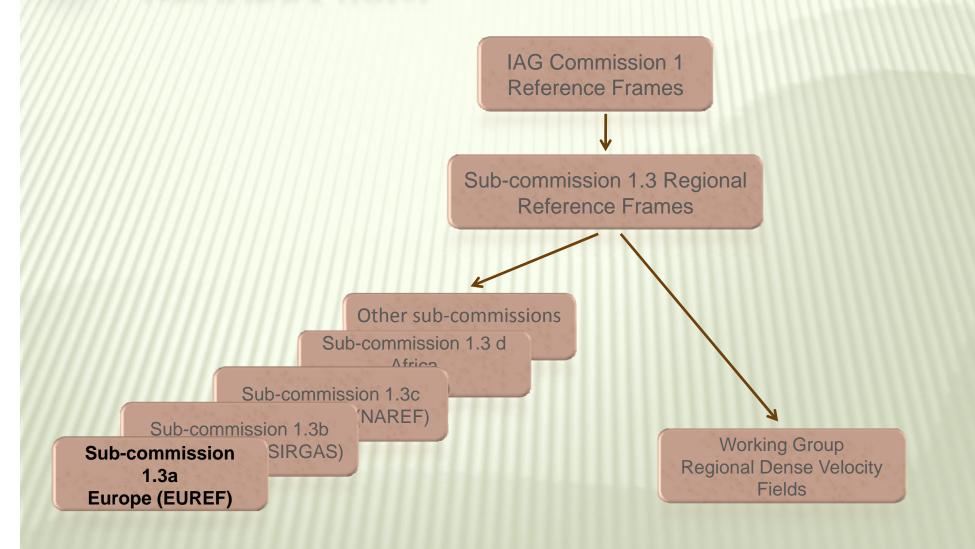
C. Bruyninx

For more info . . . http://www.euref.eu/html/twg.html



INTERNATIONAL ASSOCIATION OF GEODESY (IAG)









CURRENT MEMBER LIST EUREF TWG

- × Zuheir Altamimi, France
- * Elmar Brockmann, Switzerland
- Carine Bruyninx, Belgium (TWG chair)
- * Alessandro Caporali, Italy
- * Jan Dousa, Czech Republic
- * Rui Fernandes, Portugal
- Heinz Habrich, Germany
- Helmut Hornik, Germany (EUREF secretary)

- Johannes Ihde, Germany (EUREF chair)
- Ambrus Kenyeres, Hungary
- Martin Lidberg, Sweden
- × Jaakko Mäkinen, Finland
- * Markku Poutanen, Finland
- * Wolfgang Söhne, Germany
- Guenter Stangl, Austria
- × João Torres, Portugal

Honorary members:

- Claude Boucher, France
- * Erich Gubler, Switzerland
- * Werner Gurtner, Switzerland
- * Herman Seeger, Germany

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- * Herman Seeger, Germany
- * Knud Poder, Denmark





TWG MEETINGS 2006 - 2009



| 50 | Florence | 26/5/2009 |
|----|-----------|----------------|
| 49 | Budapest | 26-27/2/2009 |
| 48 | Munich | 3-4/11/2008 |
| 47 | Brussels | 17/6/2008 |
| 46 | Helsinki | 3/3 – 1/4/2008 |
| 45 | Paris | 29-30/11/2007 |
| 44 | London | 5/06/2007 |
| 43 | Lisboa | 5-6/03/2007 |
| 42 | Frankfurt | 6-7/11/2006 |
| 41 | Riga | 13/6/2006 |
| | | |













COOPERATIONS



EuroGeographics

- •MOU signed August 2007
- •Mutual projects, e.g. INSPIRE
- •Presentation by J. Torres



EUMETNET

- •MOU signed June 2007
- •Mutual exchange of data



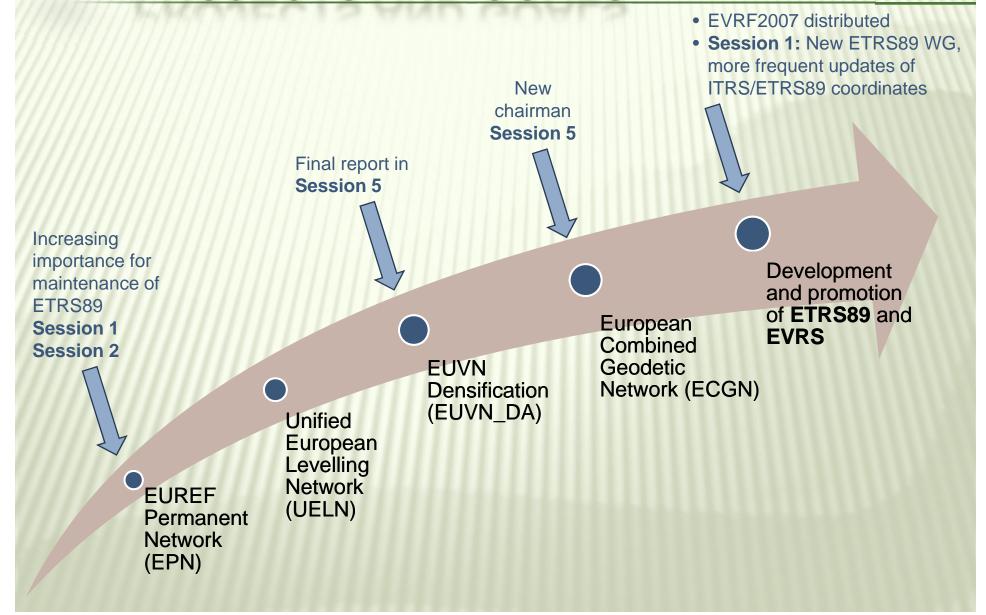
International GNSS Service

- •Common standards
- •Cross-fertilization
- •EUREF involved in IGS real-time, antenna calibration WG and Infrastructure committee





PROJECTS AND GOALS





ETRS89



× ETRS89

- **★** ITRFyyyy → ETRFyyyy (Memo Boucher and Altamimi)
- * ITRF2005 introduced Nov. 2006 in EPN

RECENT ACTIVITIES

- ★ Conversion ITRF2005 → ETRF2005 coordinate jump up to 2 cm wrt ITRF2000 → ETRF2000
- Avoid jumps by using ETRF2000 as conventional frame for ETRS89
- × ITRF2005 → ITRF2000 → ETRF2000
- × ITRF2008 → ITRF2000 → ETRF2000





ETRS89

- Memo on conversion from ITRS to ETRS89
 (Boucher and Altamimi) has been updated, Nov. 24, 2008
 - http://etrs89.ensg.ign.fr/memo-V7.pdf
- Creation of new Working Group "Development of the ETRS89", chaired by M. Lidberg (session 1)
 - **×** Education, outreach, future development
- Guidelines for EUREF Densifications, C. Bruyninx (session 1)
- Survey on official ETRS89 coordinates of EPN stations in NMCA, E. Brockmann (session 1)





× Need for more up-to-date coordinates of EPN stations

- + Updates following the ITRFyy updates: ITRF2000, ITRF2005, ITRF2008
- + Initial step, Dec. 2008: EUREF densification of the ITRF2005 (using EPN data up to Dec. 2005), A. Kenyeres
 - × EUREF mail 4142 (Dec. 12, 2008)
- + Follow up, since May 2009: EUREF densification of ITRF2005 is updated each 15 weeks, using the most recent EPN data, A. Kenyeres (session 1)
 - × Class A stations → to be used for EUREF densifications.
- + Coordinates available from http://epncb.oma.be/_trackingnetwork/coordinates/





EPN

- New EPN Special Project "Real-time Analysis", chaired by W. Söhne (session 2)
 - + 47% EPN stations stream real-time GNSS data
 - + Processing of the real-time data to derive and disseminate new (or extended) real-time GNSS products
 - + Increase reliability and decreasing workload of today's broadcasters
 - + Contribution to the IGS RT Pilot Project
- New EPN Special Project "Reprocessing", chaired by C. Völksen (session 2)
 - + Pilot reprocessing done in 2007/08 by MUT and ROB: improvement of EPN time series
 - + Official EUREF reprocessing following IGS schedule
 - + Continuous reprocessing?
 - + Global stations





EPN

- Increased effort to quickly monitor EPN coordinates and generate alarms
 - + LAC coordinator, H. Habrich (session 1)
 - + Rapid daily solutions from the EPN analysis centers
 - + Stations are missing, need to more AC to get involved.





RECENT/FUTURE ACTIVITIES

- EUREF associate member of International Committee on GNSS (United Nations Office for Outer Space Affairs)
 - * to promote the use of GNSS infrastructure on a global basis and to facilitate exchange of information http://www.oosa.unvienna.org/oosa/en/SAP/gnss/icg.html
 - Working Group D: Interaction with national and regional authorities and relevant international organizations
- * EUREF Web site
- EUREF campaign database
- × ITRS-ETRS89 transformation programs on-line