

## Resolutions of the EUREF Symposium in Vienna, 1 – 4 June 2005

### Resolution no. 1

The IAG Reference Frame Sub-commission for Europe (EUREF)

*considering the importance of*

- using individual antenna calibration models for the EUREF Permanent GPS Network (EPN) and EUREF campaigns
- the improvement in results when absolute calibrations are employed
- having consistent standards in these matters

*invites* the International GPS Service (IGS) and EPN to consider the timely introduction of standards for these techniques.

### Resolution no. 2

The IAG Reference Frame Sub-commission for Europe (EUREF)

*recognising* the need for reliable and timely Global Navigation Satellite System (GNSS) data flow

*and acknowledging* recent efforts to improve the EPN data flow

*however noting* that reliability and latency issues still exist in the data flow

*urges* EPN station managers to improve the latency and reliability of their data uploads in accordance with EPN guidelines.

### Resolution no. 3

The IAG Reference Frame Sub-commission for Europe (EUREF)

*acknowledging* the efforts of the European National Mapping Agencies (NMAs) in contributing to the Unified European Levelling Network (UELN) and European Combined Geodetic Network (ECGN) projects for the current European Vertical Reference System (EVRS) realisation

*and noting* the need for a new realisation of EVRS

*asks*

- NMAs to provide any new levelling data for UELN 2006 and information on national height reference and ECGN points for the new EVRS realisation
- owners of absolute gravimeters involved in ECGN to provide the meta data information of their gravity measurements to the ECGN working group and to make available the campaign data files from their own data base.

### Resolution no. 4

The IAG Reference Frame Sub-commission for Europe (EUREF)

*noting* that Networked Transport of RTCM via Internet Protocol (NTRIP) recently became an RTCM standard for streaming GNSS data in real-time over IP networks and that NTRIP supporting reference station equipment is now readily available

*and considering* the growing global need for real-time access to high-rate GNSS data for the determination of real-time satellite orbits and clocks, atmospheric delays, disaster monitoring etc

*asks* the member countries to support these activities by streaming carrier phase data from EPN stations through the Internet using the NTRIP standard, within the framework of the EUREF-IP project.

**Resolution no. 5**

The IAG Reference Frame Sub-commission for Europe (EUREF)

*considering* the widespread adoption of the European Terrestrial Reference System 1989 (ETRS89) within Europe

*encourages* NMAs and National Cadastral Agencies to raise public awareness of ETRS89 as the recommended European system for geo referencing activities.

**Resolution no. 6**

The IAG Reference Frame Sub-commission for Europe (EUREF)

which held its fifteenth symposium in Vienna from 1 – 4 June 2005

*expresses* its heartfelt thanks to the Local Organising Committee, its chairman Peter Pesec as well as the Austrian Academy of Sciences Headquarters Vienna, the Space Research Institute Graz and the Federal Office of Metrology and Surveying for organising the symposium and for the excellent arrangements resulting in a very successful meeting.