

EUREF 2013 Symposium

National Report of Austria

by

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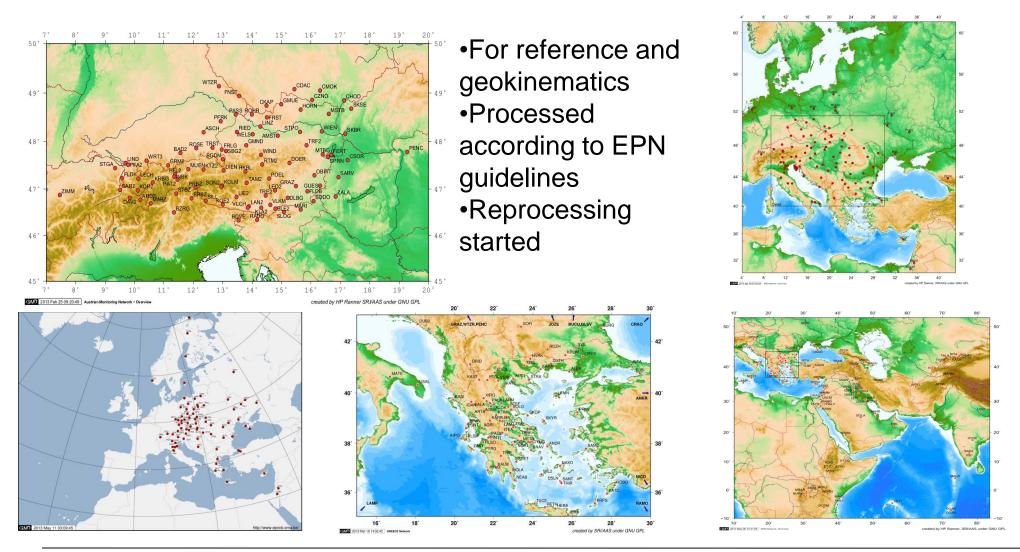
Budapest, Hungary

May 29th to May 31st, 2013



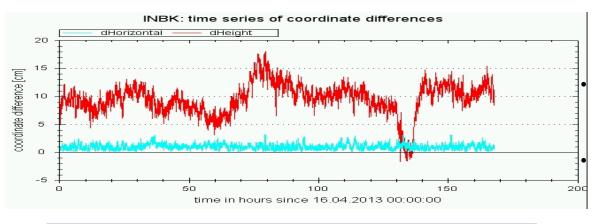
Permanent Networks

At present 5: AMON, CERGOP, EPN, GREECE, MON





APOS – Monitoringstation Innsbruck (INBK)



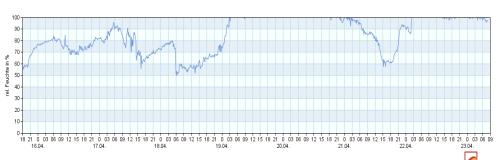
height offset vs. realitve humidity

Time series (16th to 23rd of April) of coordinate differences; height offset (red graph) at INBK (university)

(615 m above adriatic sea level)

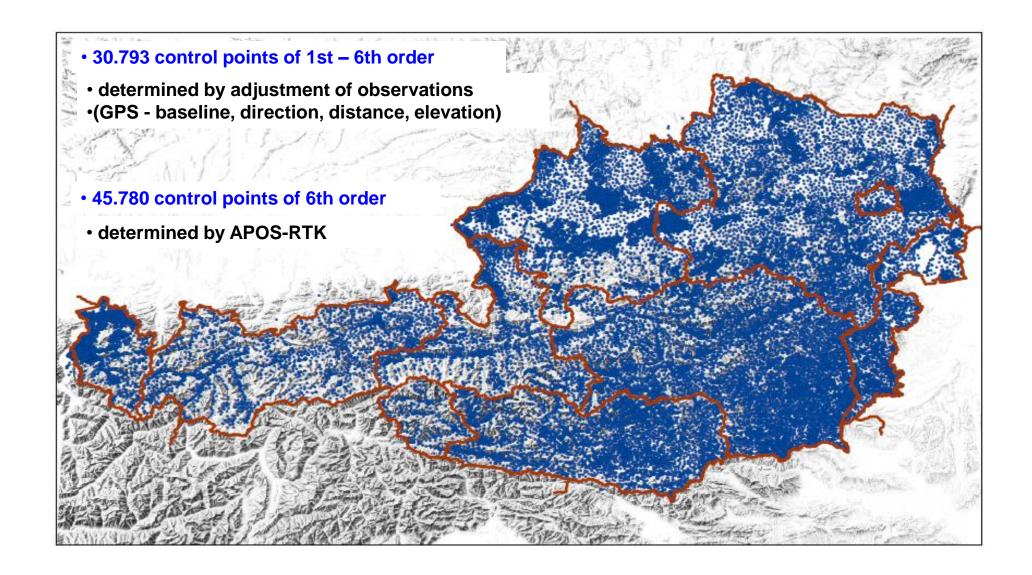


Relative humidity of ZAMG sensor at INBK (university)
(615 m above adriatic sea level)



Relative humidity of ZAMG sensor at **PATK** (2249 m above adriatic sea level)

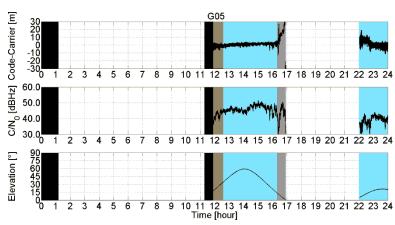




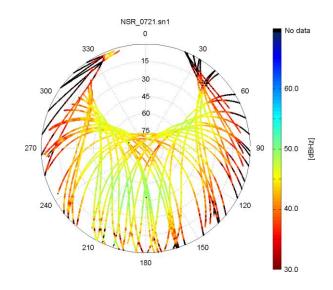


Multipath Mitigation DISAP





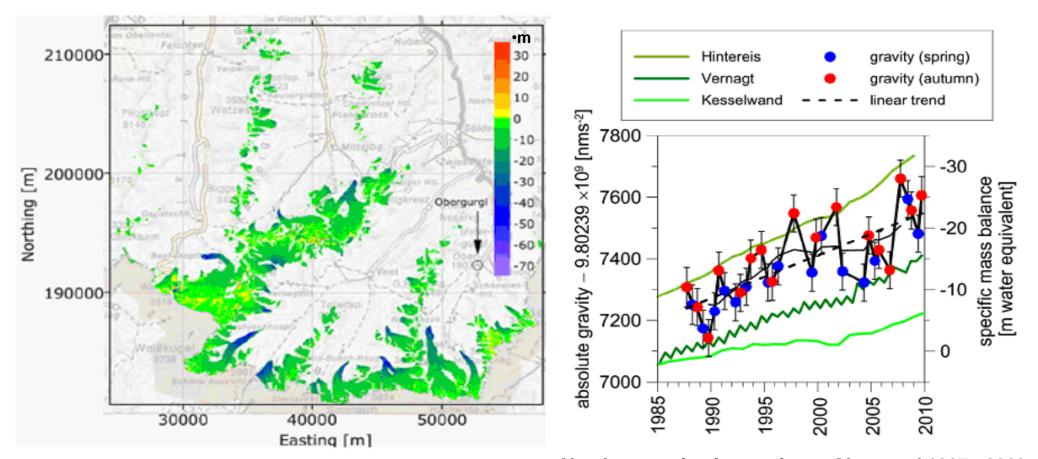
- Testbed at roof with reflectors
- Multipath signals tested with Code-carrier and signl/noise ratio
- Pre-Test with various antennas and 2 receivers
- Main Test with new antenna (moving) in summer 2013



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•Gravity changes in Obergurgl / Tyrol due to ablation of surrounding glaciers



Oetztal Alps

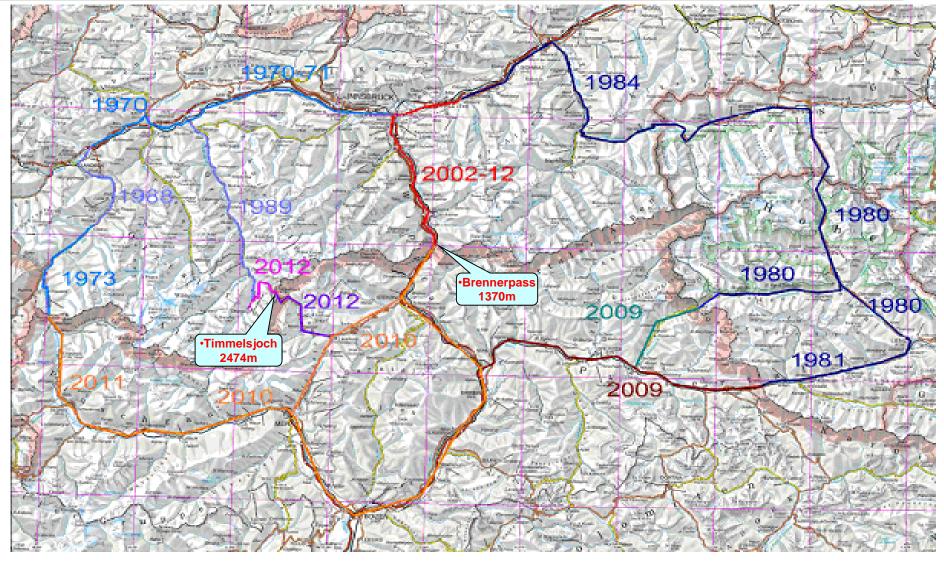
·Ice thickness variation 1997 - 2006

 Absolute gravity time series at Obergurgl 1987 - 2009 and cumulative ice-mass balance observations

•published: P. Arneitz, B. Meurers, D. Ruess, Ch. Ullrich, J. Abermann, M. Kuhn, 2013: Gravity effect of glacial ablation in the Eastern Alps – observation and modeling. The Cryosphere, 7, 491–498, 2013

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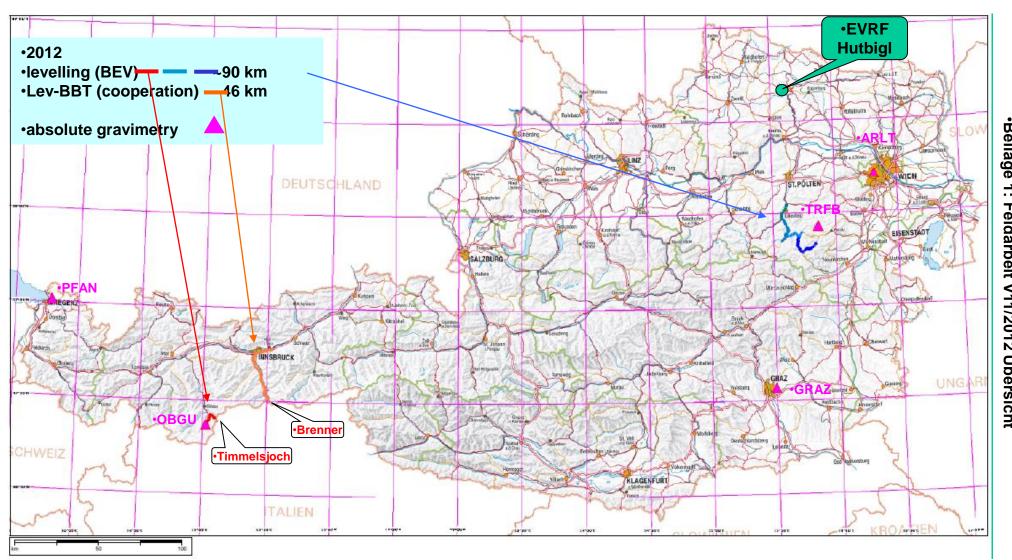




•2012 status of precise Levelling Loops between Austria (Tirol) and Italy (South Tyrol) and their datum

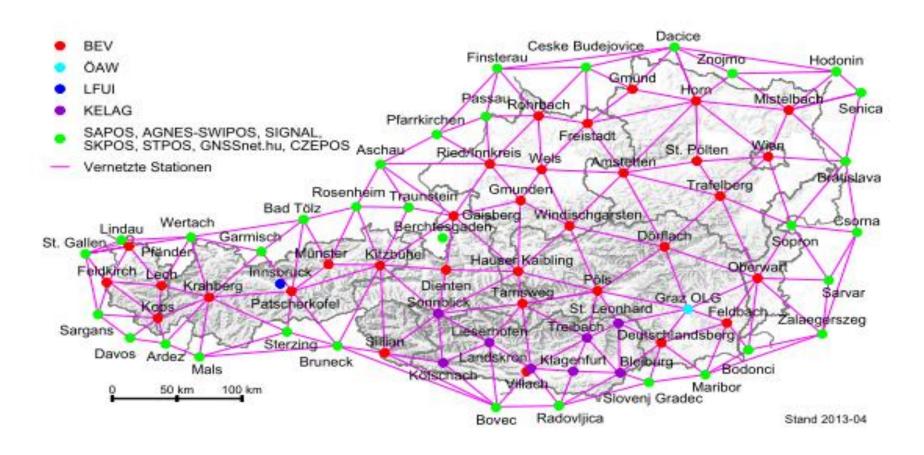
Beilage 1: Feldarbeit V11/2012 Übersicht

•EVRF HutbigI





APOS - Austrian Positioning Service



APOS - reference station network (currently 68 stations included) - status 2013-04