



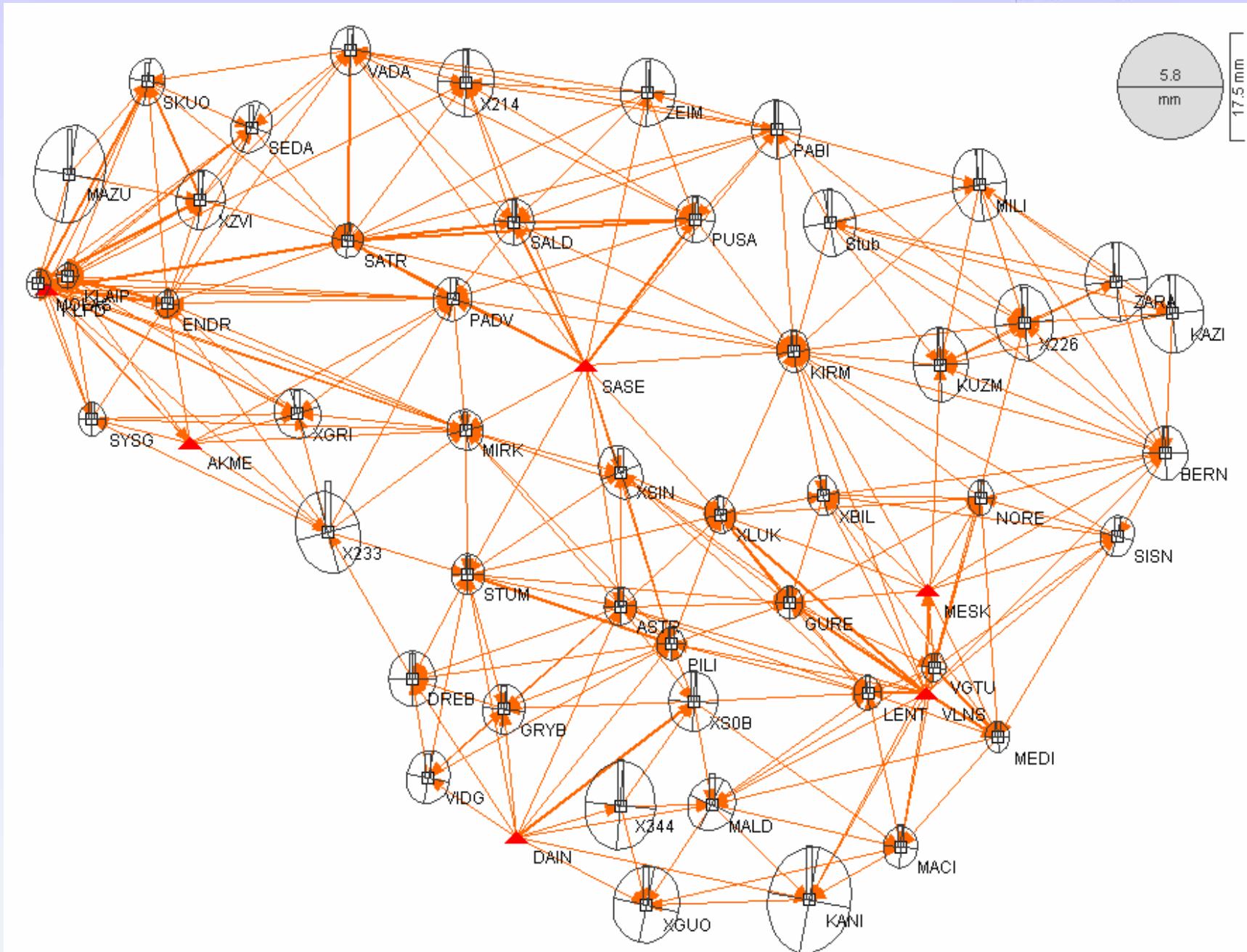
EUREF Symposia, 2008, Brussels, Belgium

Outline

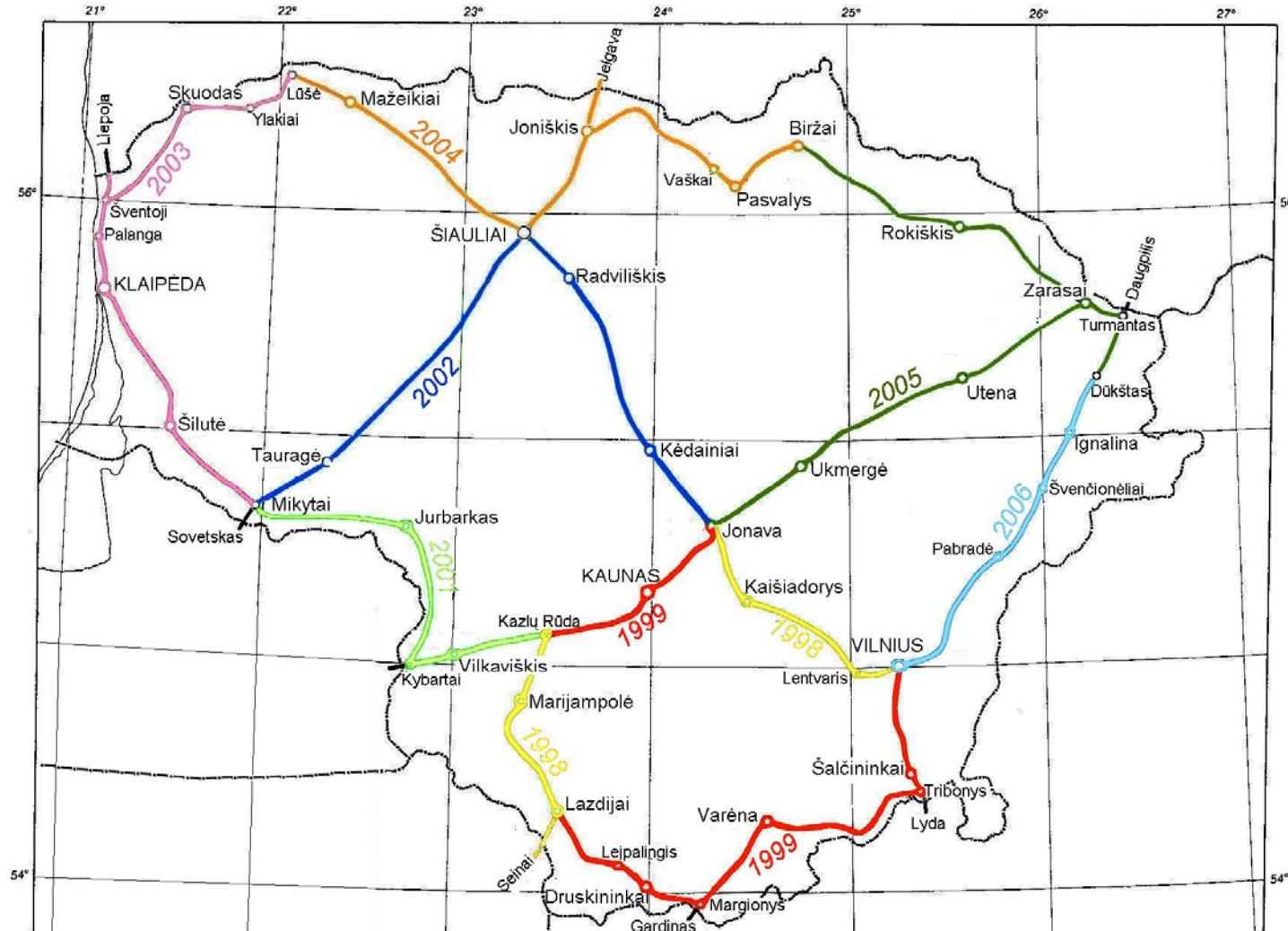
- National GPS First Order Network
- National Geodetic Vertical Network
- National Gravimetric Second order Network
- LitPOS

NKG Working groups meeting, April 7-10, 2008, Hønefoss, Norway

National GPS First Order Network (1)

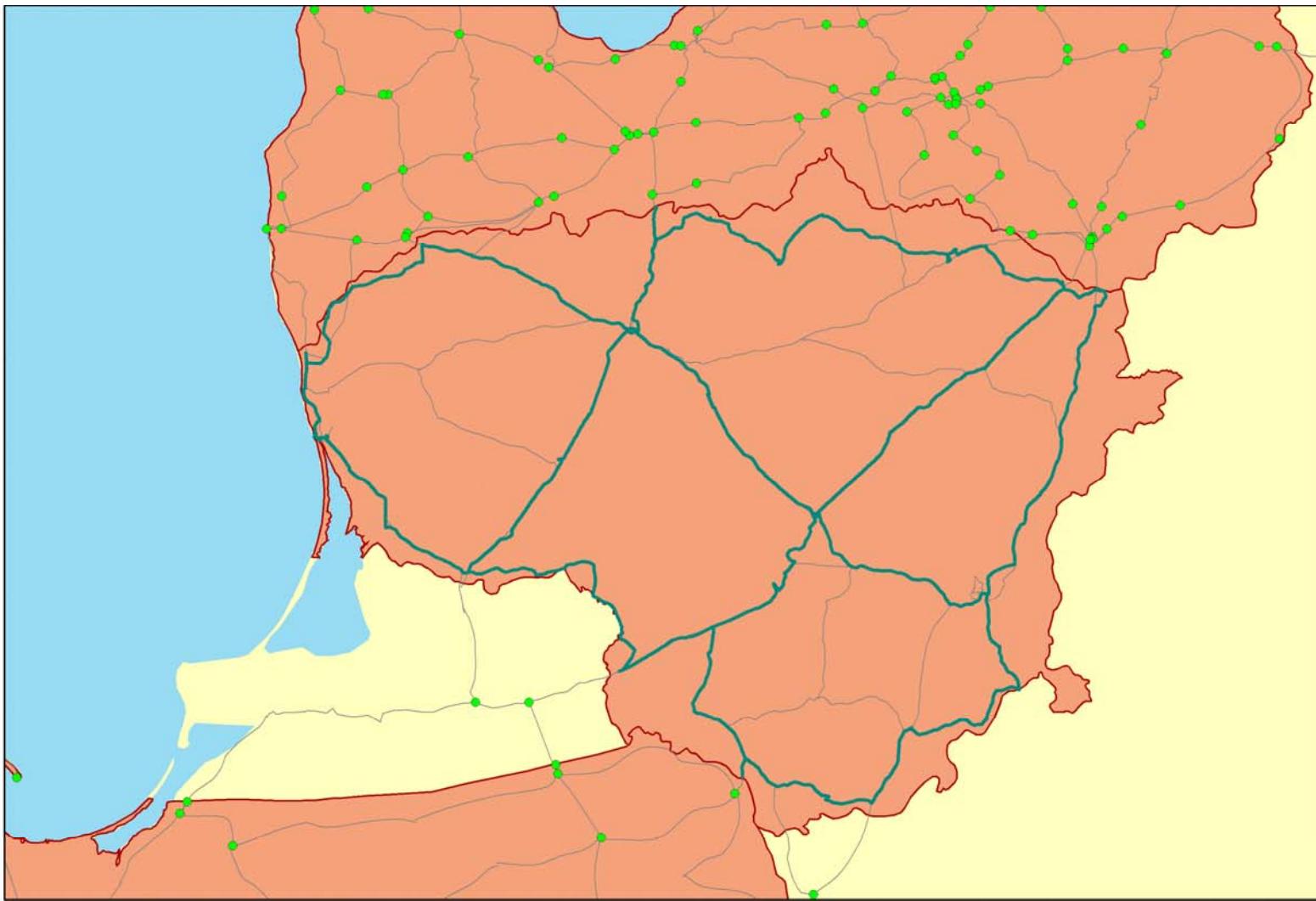


National Geodetic Vertical Network (1)



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National Geodetic Vertical Network (3)



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National Geodetic Vertical Network (4)

Solution: UELN20/02 FP 913032 12.07.07 Lit. all points

The a-posteriori standard deviations computed by variance component estimation

Oesterreich	167	0.8009	Finnland	262	0.7281
Belgien	63	1.2422	Schweden	4154	0.9997
Schweiz	413	1.0889	Tschechien	93	1.0403
Deutschland	846	0.8388	Ungarn	82	0.5138
Dänemark	194	0.8947	Slow.,Kroa.,Bosn/Hz.	112	0.9014
Spanien	110	1.8454	Polen	219	0.9582
Frankreich	348	2.0169	Slowakei	100	1.4105
Italien	110	1.7512	Rumänien	90	1.7513
Niederlande	1424	0.7504	Estland	78	1.2966
Portugal	27	1.7722	Lettland	159	1.7637
Grossbritannien	60	1.7179	Litauen Ep.2000	1399	0.7209
Norwegen1	341	1.1559	Bulgarien	109	1.1381
Norwegen2	360	1.1916			

ECGN

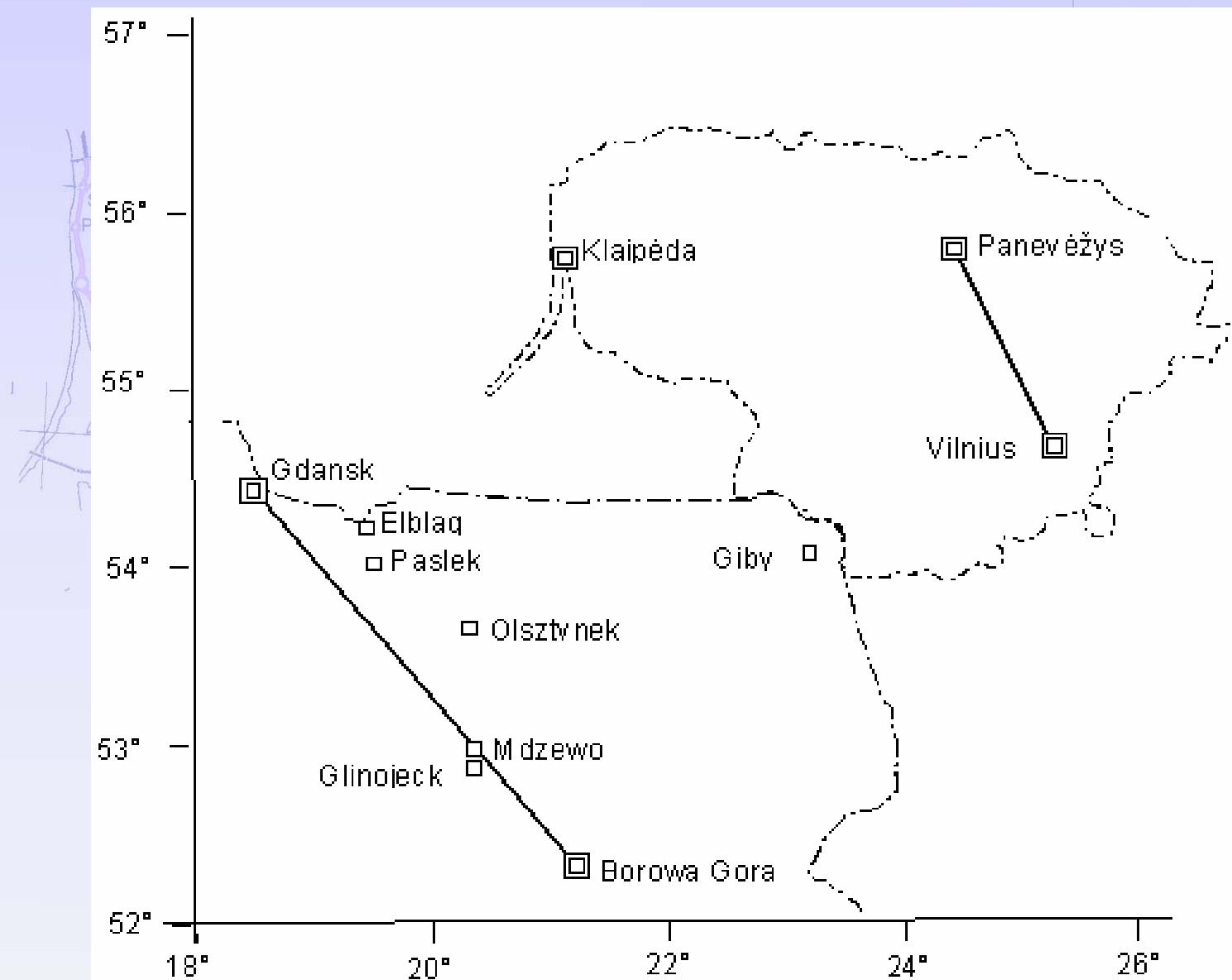


Status 04 June 2007

- proposed datum points
- ▲ proposed ECGN stations

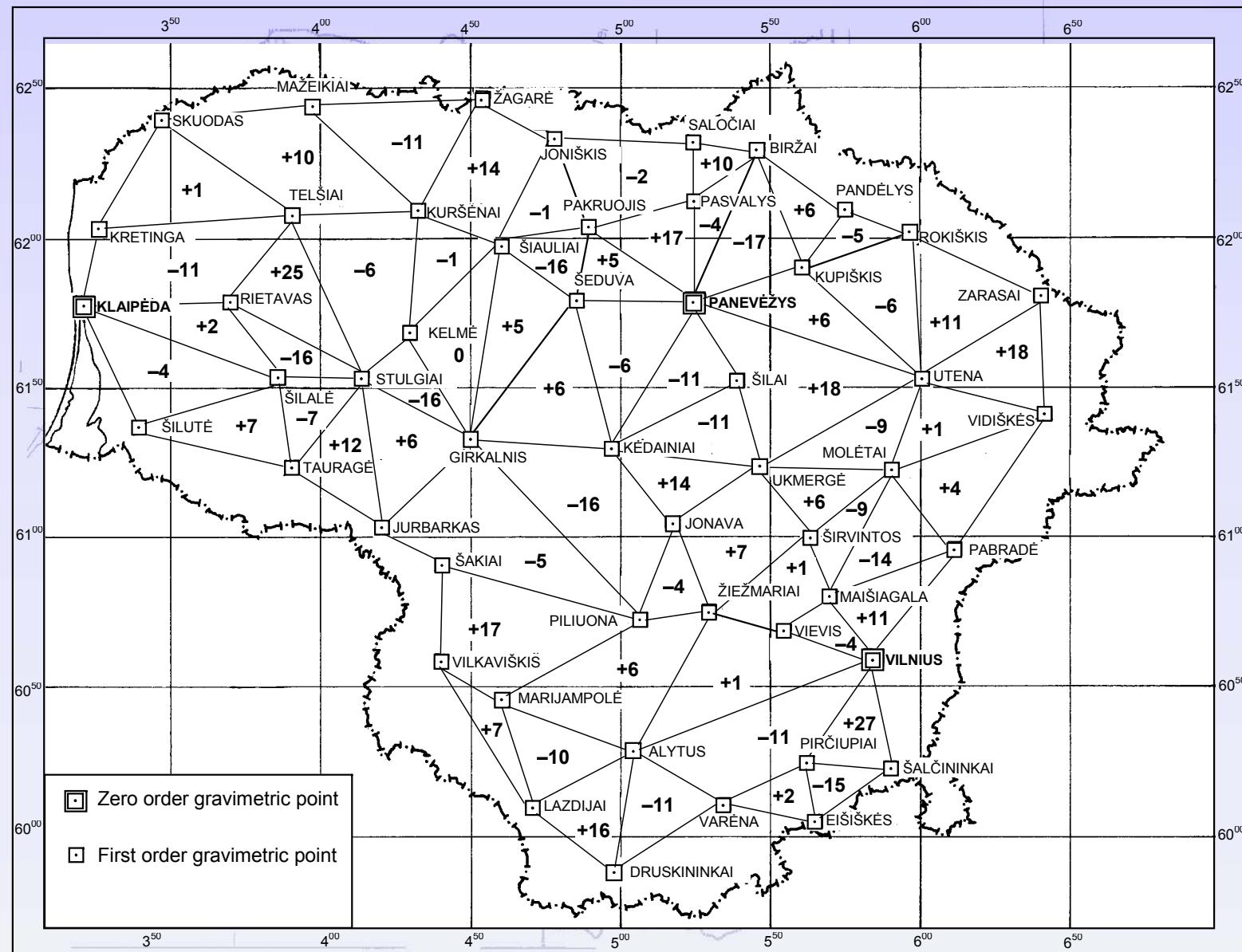
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Gravimetric Networks



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Gravimetric Networks



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Gravimetric Networks

UEGN02



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Gravimetric Networks – current works and future plans

Lithuanian National Gravity Second Order Network (southern part)



About 600 points (2007-2009)

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Gravimetric Networks - current works and future plans

Instruments: CG-5 (4 units)

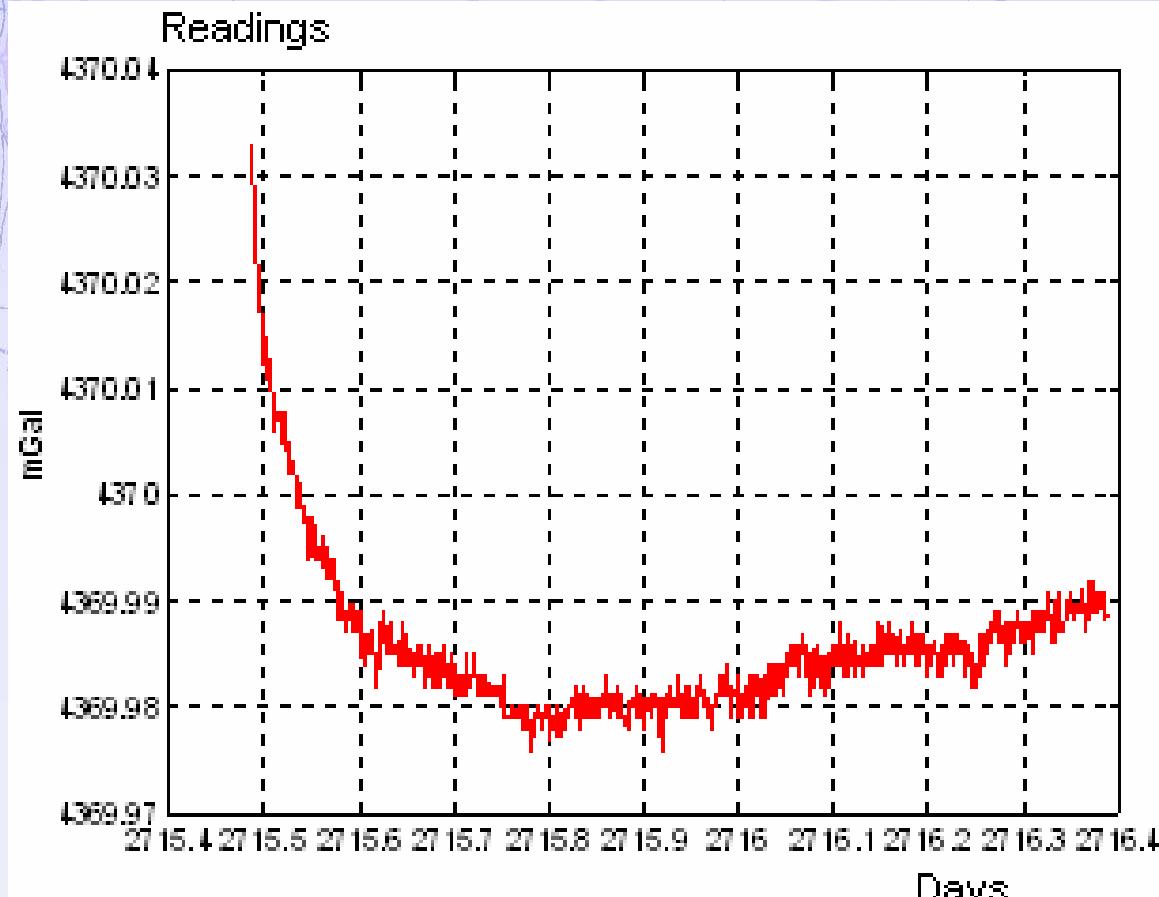
Linear scale coefficients

Date	182	183	184	185
2007 09 18	1.013512	0.999441	1.000463	0.999999
2007 12 04	1.013417	0.999600	1.000315	0.999847
Difference	-0.000095	0.000159	-0.000148	-0.000152

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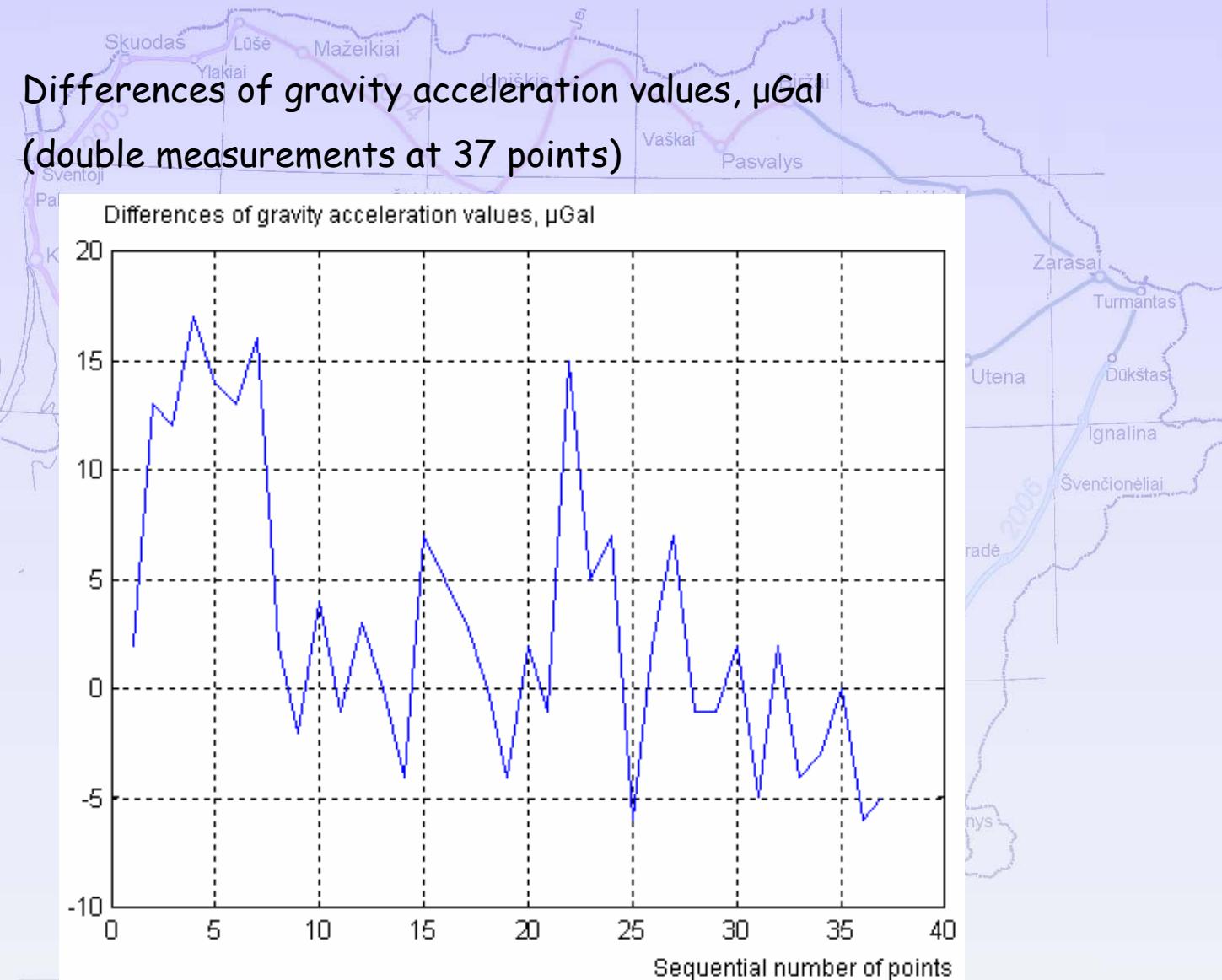
Gravimetric Networks - current works and future plans

Changes of readings (gravimeter No 182)



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Gravimetric Networks - current works and future plans



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Gravimetric Networks - current works and future plans

Differences of gravity acceleration values of two epochs (L&R, 2001; CG-5, 2007)

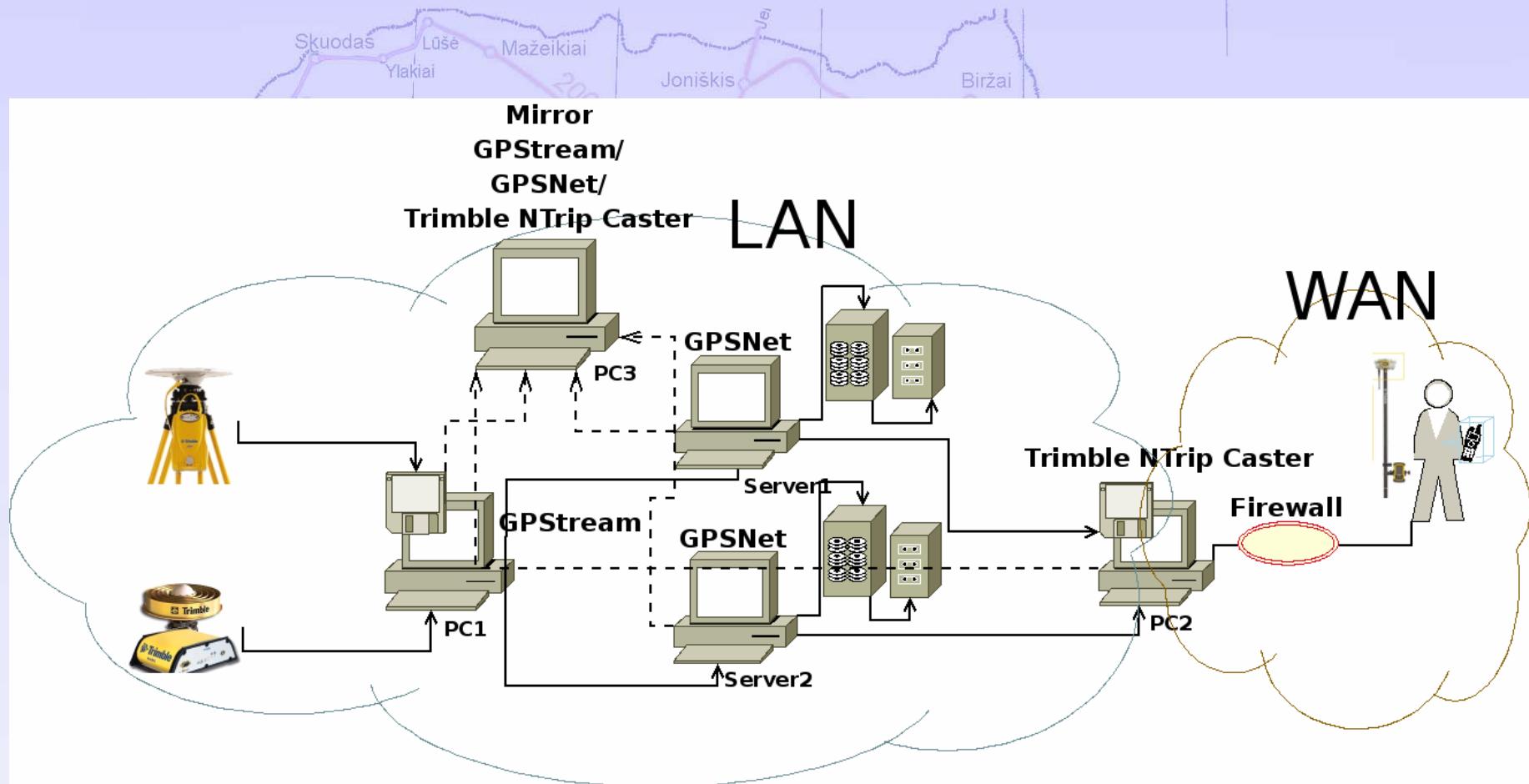
No	Point name	Difference, μGal
1	VILNIUS	-2
2	MAISIAGALA	19
3	MOLETAI	11
4	SIRVINTOS	2
5	PABRADE	2
6	UKMERGE	-10
7	UTENA	-8
8	SALCININKAI	-8
9	VIEVIS	7
10	ZIEZMARIAI	18
11	EISISKES	1
12	PIRCIUPIAI	4
13	VARENA	-17
14	ALYTUS	-2
15	DRUSKININKAI	0
16	JONAVA	3
17	PANEVEZYS	2
18	BIRZAI	-12
19	ZARASAI	1
20	JURBARKAS	14
21	TAURAGE	-9
22	PILIUONA	6
23	LAZDIJAI	0
24	MARIJAMPOLE	1
25	VILKAVISKIS	2

LitPOS



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LitPOS



LitPOS hardware at operating centre consists of 3 PC and 2 servers

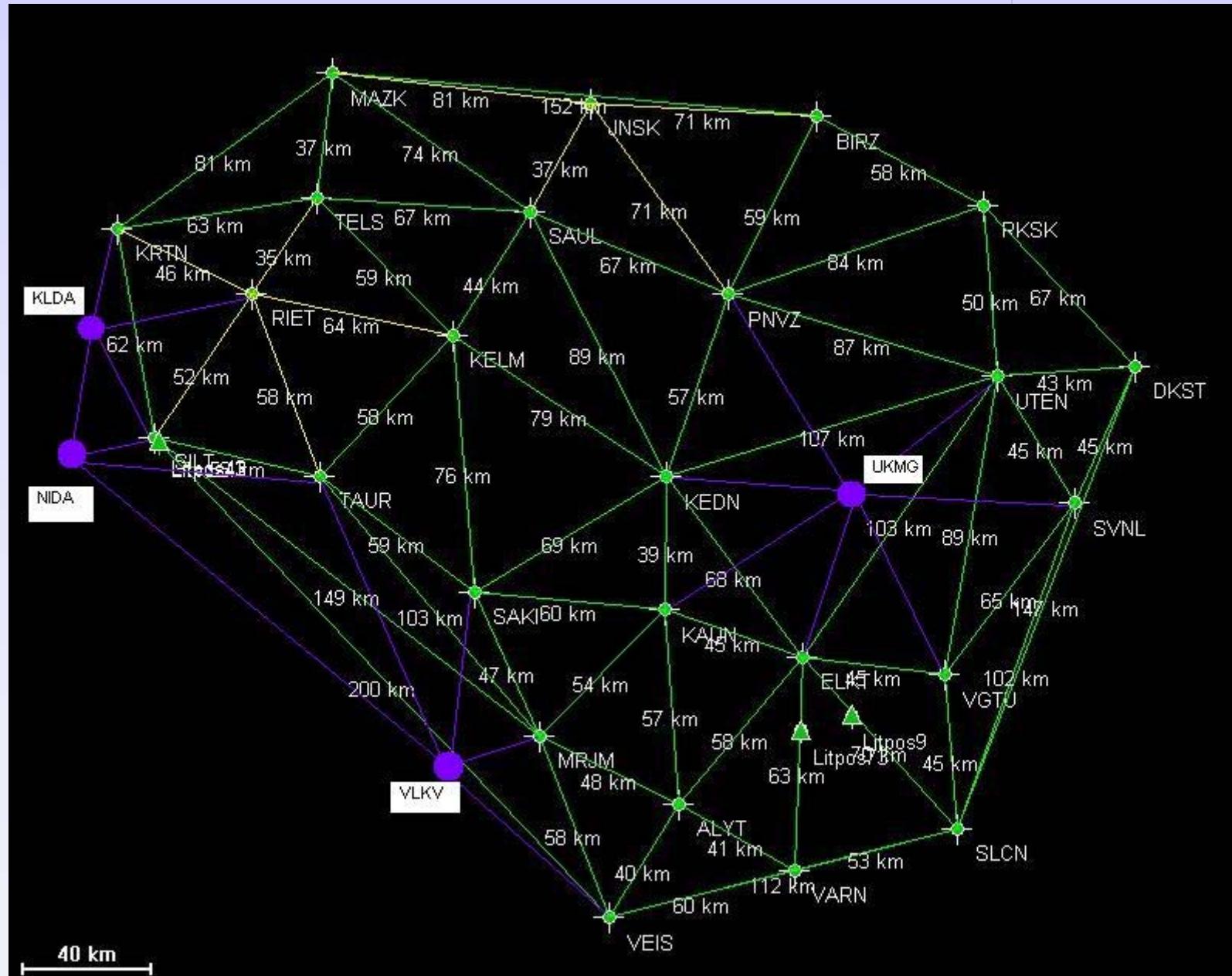
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LitPOS

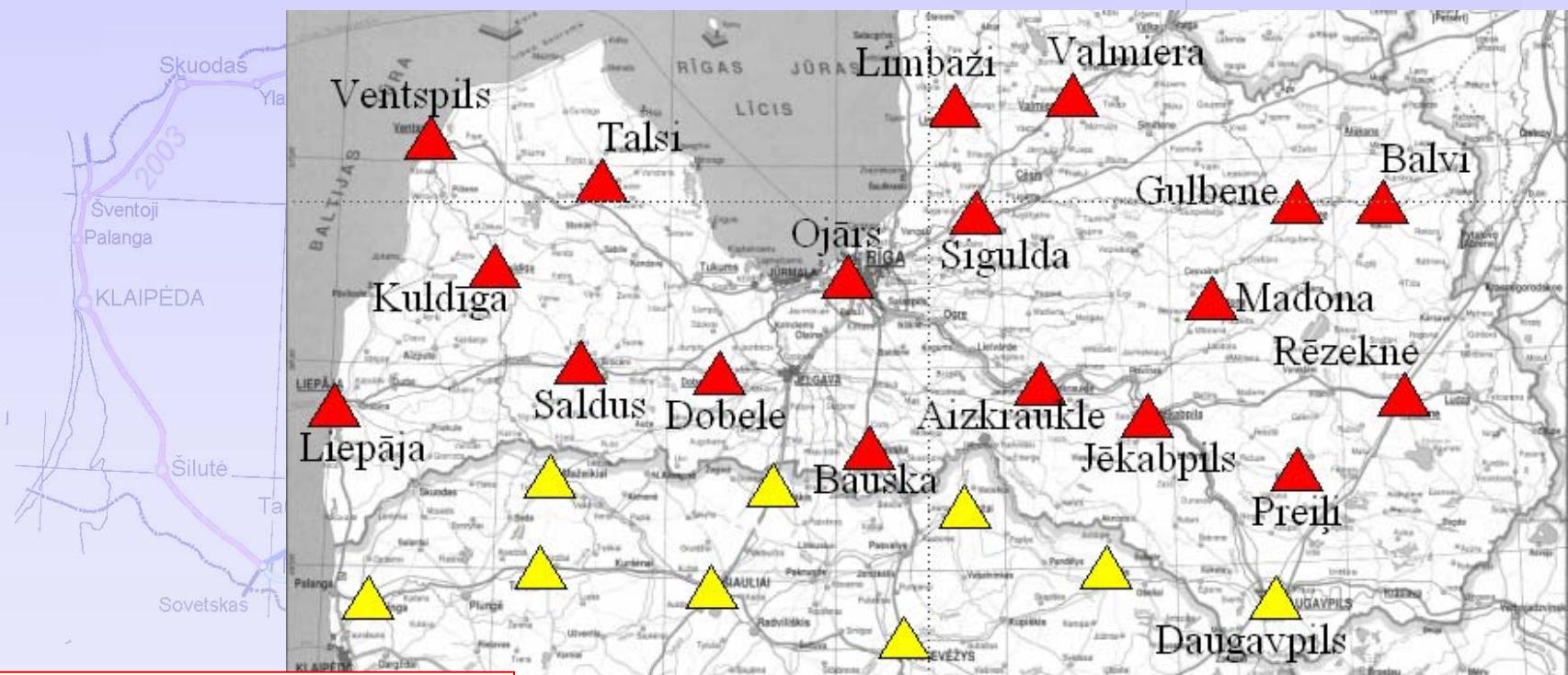


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LitPOS



LitPOS



RUSSIA

LITHUANIA

GIZY SWKI

POLAND SOKL

Kazlų Rūda 1999

Ilkaviškis

Marijampolė

VILNIUS

Lentvaris

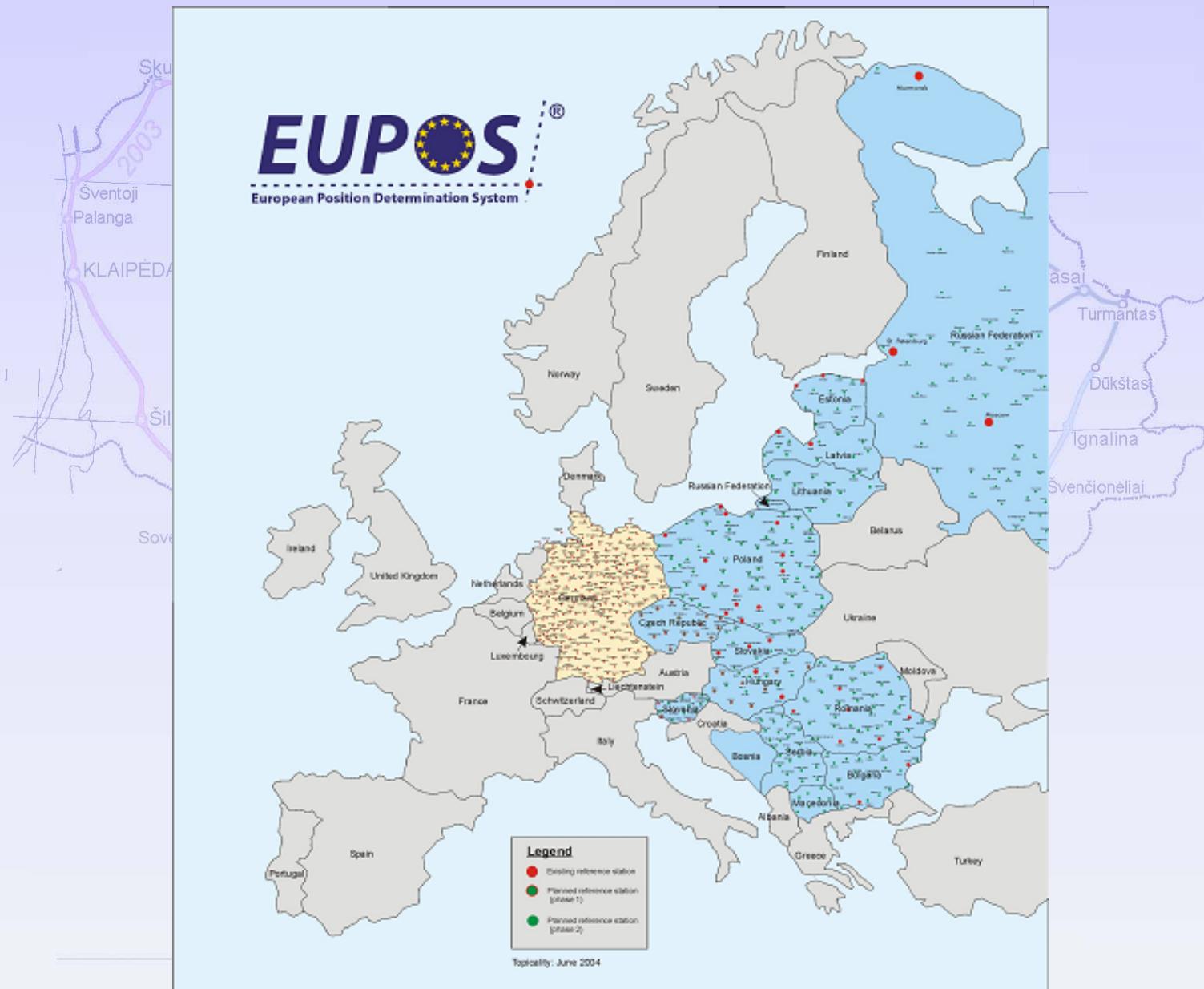
Šalčininkai

Tribonys

ID	Location	Antenna type	Receiver type	Available format of real-time data	Available data
GIZY	Giżycko	ASH701945C_M SNOW	Ashtech Micro Z	RAW, RTCM 3.0, RTCM 3.1	GPS
SOKL	Sokółka	TRM41249.00 TZGD	Trimble NetRS		GPS
SWKI	Suwałki	TRM55971.00 TZGD	Trimble NetRS		GPS/GLONASS

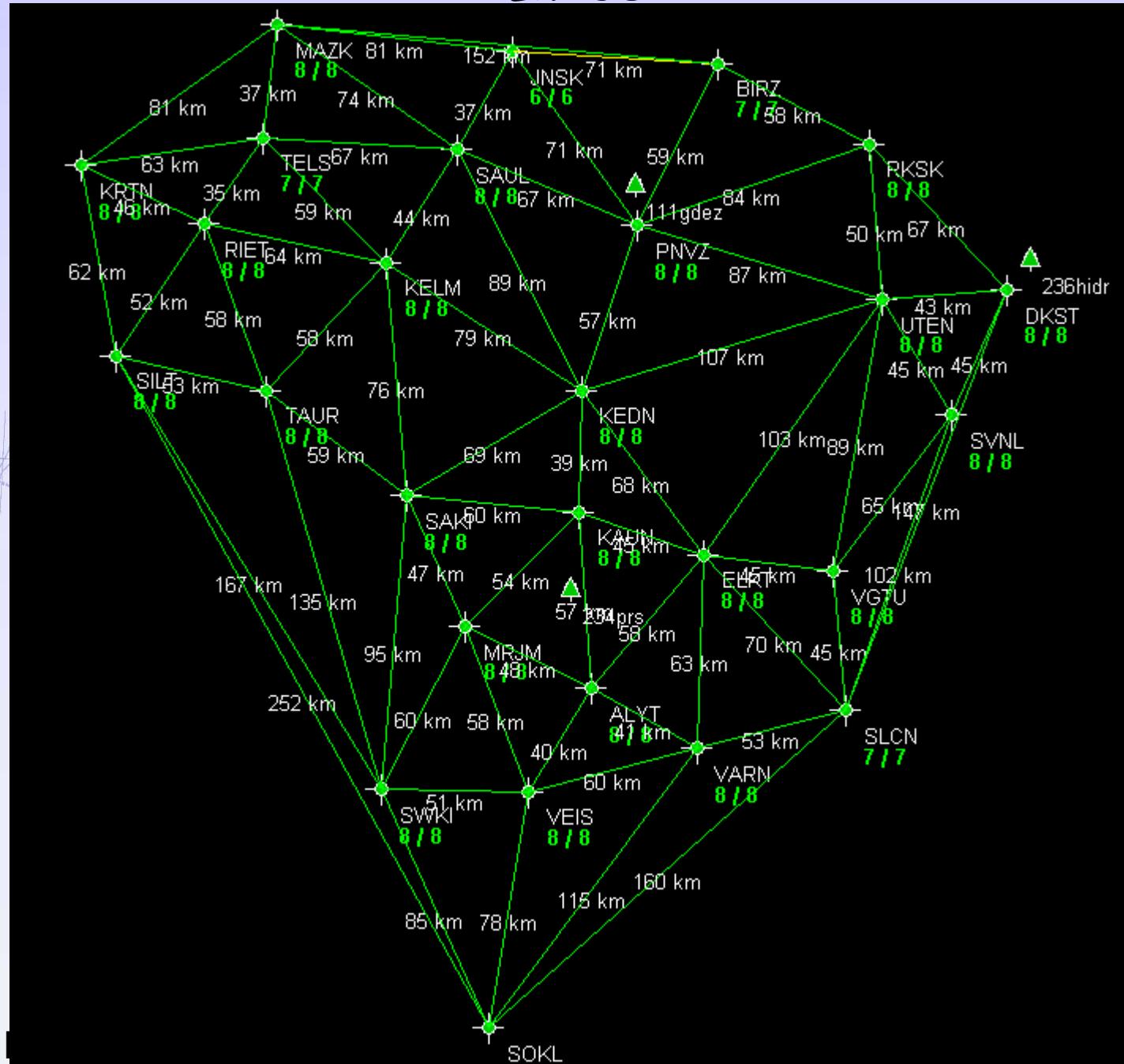
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LitPOS



Future plans

- NKG GNNS campaign 2008
- Connections to vertical networks of Poland and Latvia (2008-2009)
- Adoption of vertical (height) and gravity systems - 2008
- Second order vertical network - 2009-2011
- Absolute measurements at Panevezys and Klaipeda - 2008-2009
- Second order gravimetric network - 2007-2009
- Connections of gravimetric networks of Poland, Latvia - 2009

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Thanks...

Thank you for your attention!



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