





State Land service

State Agency

Latvian Geospatial Information Agency

SIA "Latvijas Valsts mērnieks"

State Land service





Latvian Geospatial Information Agency has following functions:

- •capture, processing and maintenance of basic geographical data for civil and military purposes;
- creation and development of unified geographical basic data information system;
- cooperation with public, public institutions, member states of North Atlantic Treaty Organization, institutions of European Union and international organizations acting in the area of competence of Agency within area of its competence and to provide them with geodetic, cartographic and spatial information.



EUREF 2006 Riga, June 14 - 17, 2006

Our tasks:

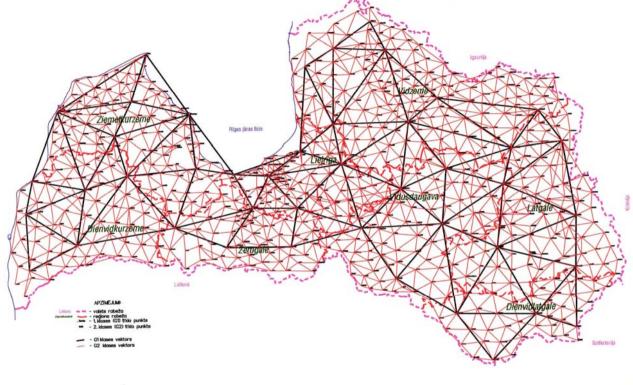
- GPS network;
- GPS reference system LatPOS;
- Levelling network;
- Gravimetrical measurements;
- Magnetometrical measurements;
- Maintenance of geodetic documentation;
- Preparation of law (about geodesy and mapping).





1st order network

- 44 points
- distance ~ 40 70 km
- Are based on the 0 order points -Arājs, Indra, Kangari, Rīga (EUREF-BAL '92 points)





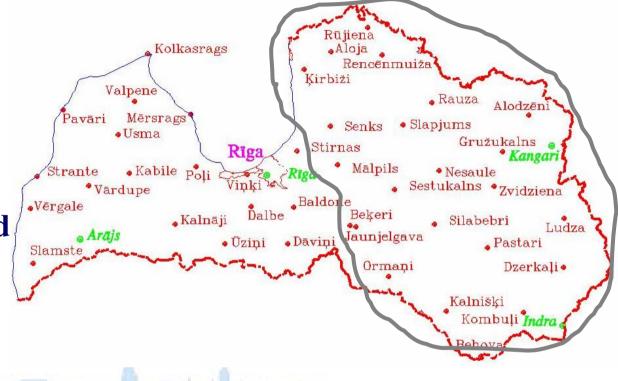


Remeasured 1st order points in 2005

22 points

Points were surveyed, cleared out of bushes

2 renowated centres of geodetic points







Planned measurement in 2006

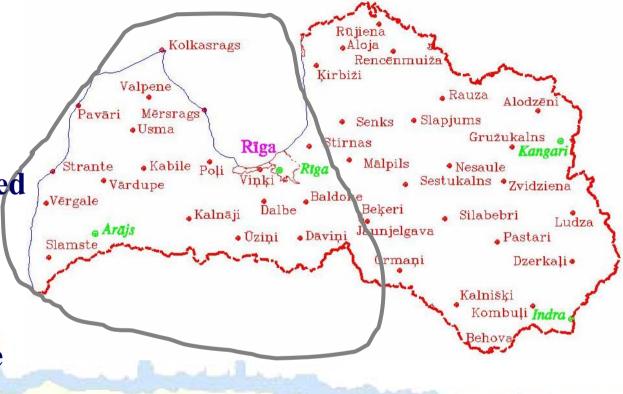
• 22 points

 Points were surveyed, cleared out of bushes

measurement

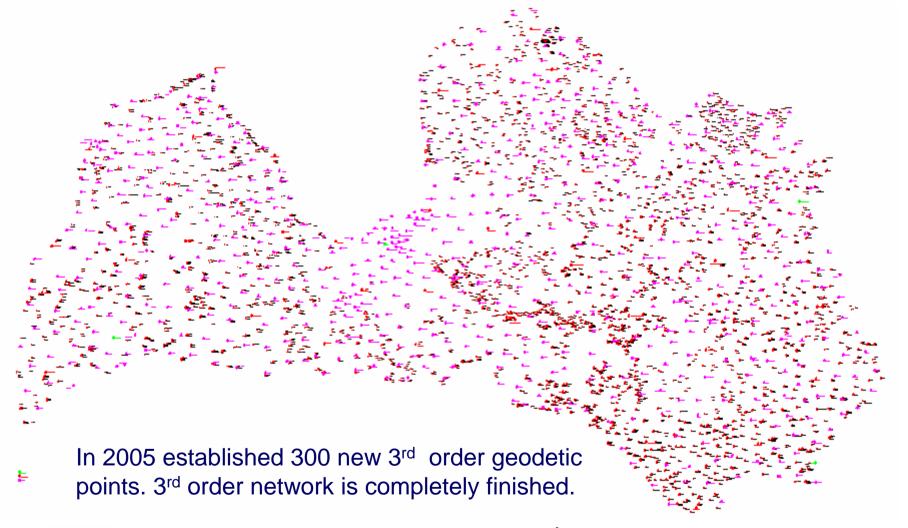
data processing

analysing of the results





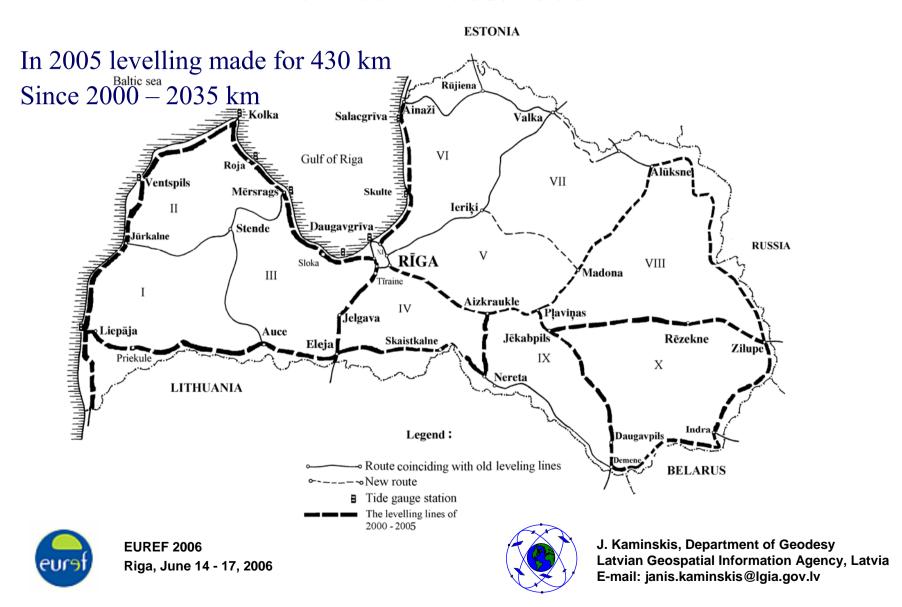
1st, 2nd and 3rd order National Geodetic Network

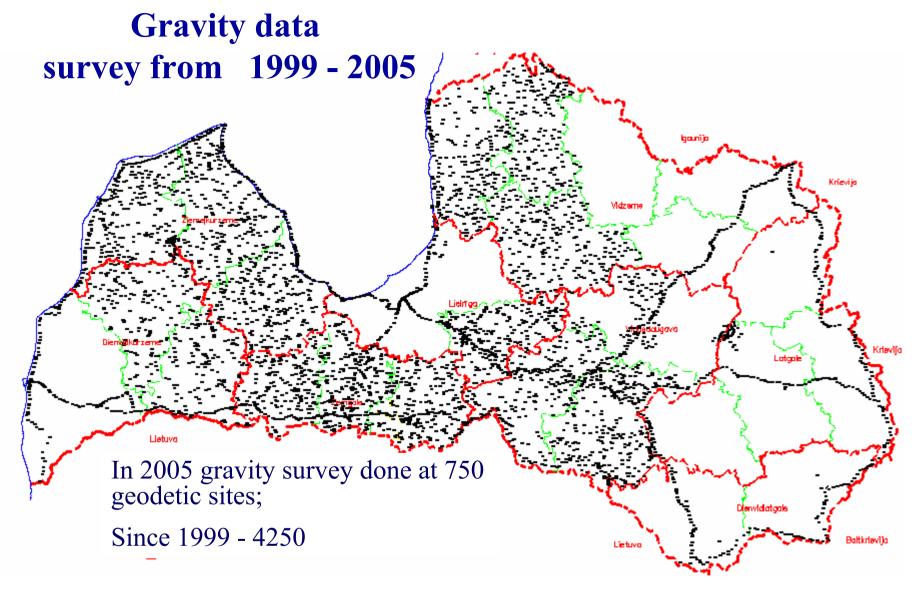






First order Levelling network principal scheme, status – 2005/2006







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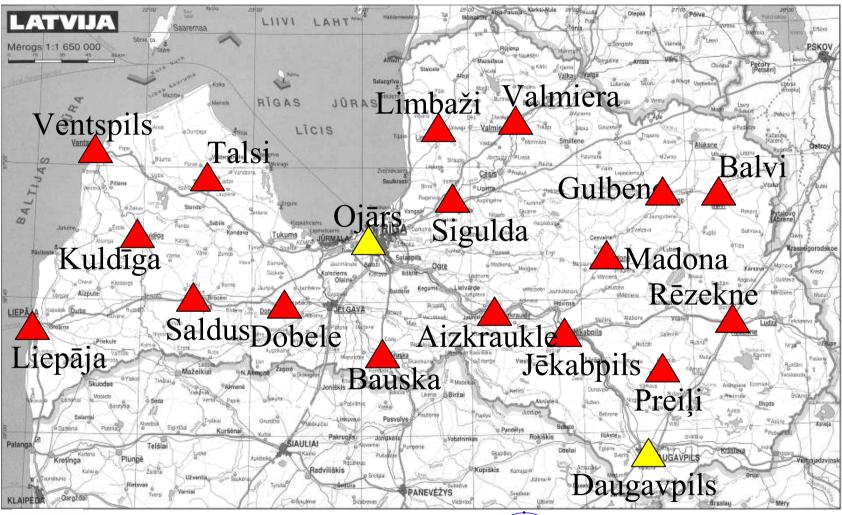


LATPOS

GPS reference stations: Leica Trimble





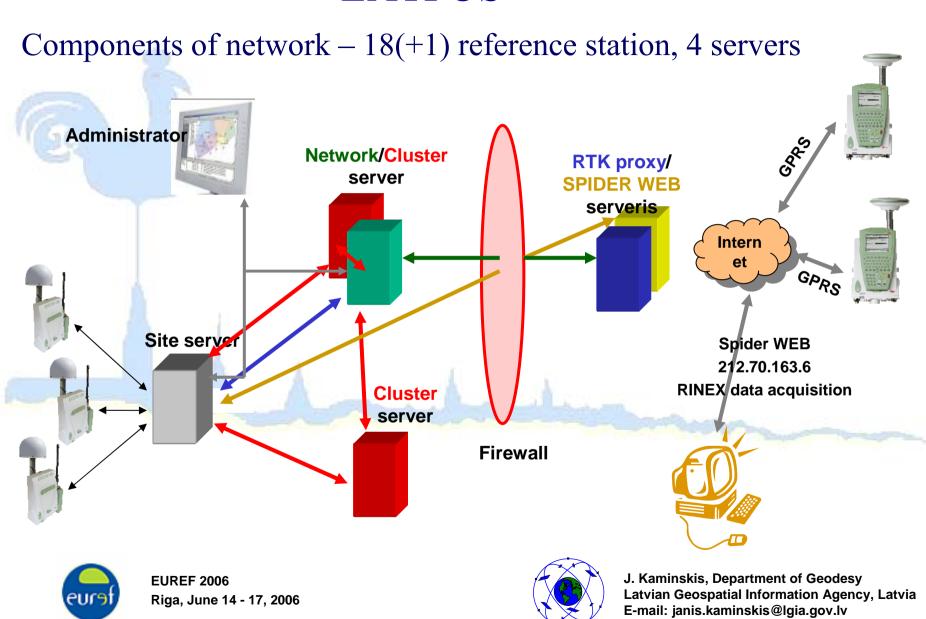




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LATPOS



The Struve Geodetic Arc



- The Struve Geodetic Arc was inscribed on the World Heritage List at the Executive Board meeting of the World Heritage Committee in Durban, South Africa (July 25, 2005)
- The ten countries through which the Arc passes have co-operated since 1994 for the recovery, verification and monumentation of the survey sites of the Arc.
- The selection of points involves a total of 34 sites of the Struve Geodetic Arc.



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The Struve Geodetic Arc

Geodetic point Sestukalns

Elkas-kalns

20.

Sestw-kalns

Nessaule -Gaissa-kalns





Nowadays, the geodetic survey point "Sestukalns" is a first order point of the horizontal geodetic reference network of Latvia.

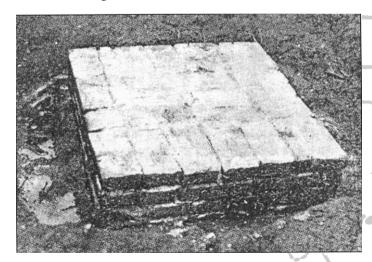


The Struve Geodetic Arc

Geodetic point Jēkabpils

Nowadays, the geodetic survey point and astronomical observation post "Jēkabpils" is a first order point of the horizontal geodetic reference network of Latvia.

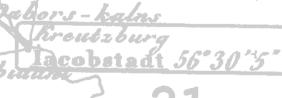




Briston



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Conclusions:

Geodesy is very international discipline and we are proud about so many EUREF 2006 participants;

We all work into great team and our geodetic work is of great importance in general, like GGOS (around globe), NGOS (Nordic), BGOS (Baltic)!









