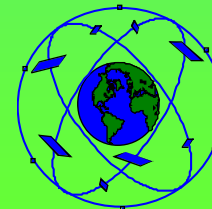


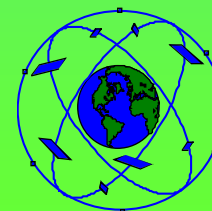
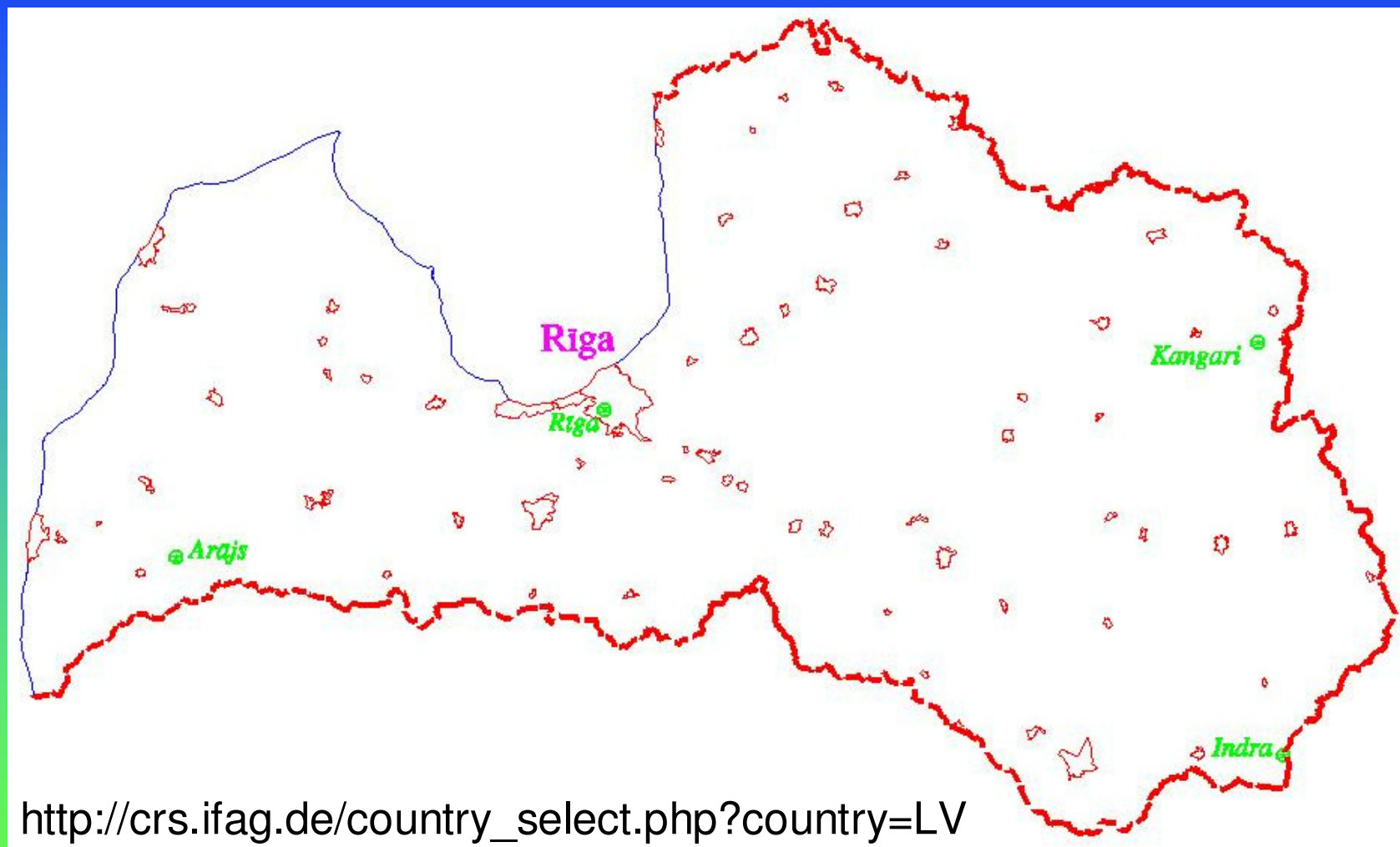
National report for EUREF from Latvia

EUREF 2004
Bratislava, June 2 - 5, 2004

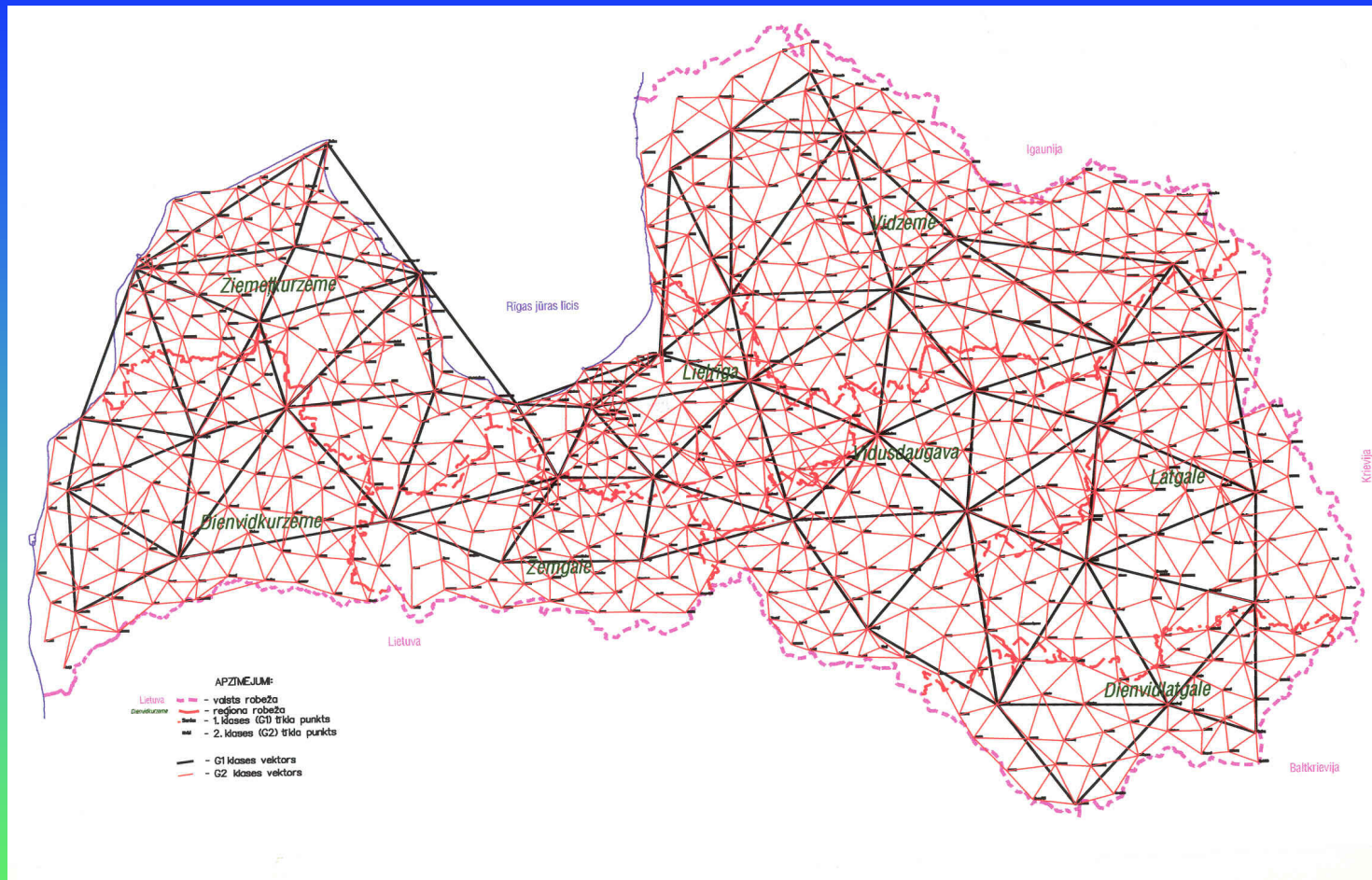


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4 EUREF non - permanent stations in Latvia

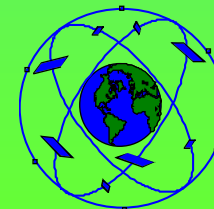


Second Order National Geodetic Network



The Second Order Network established within the period from 1993 up to 2000

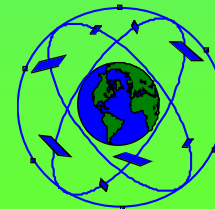
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Densification Network

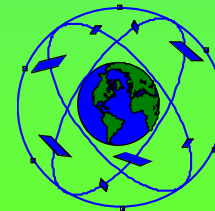
- Includes 3400 points
- Average distance between the points 0.5 - 10 km
- Average density 1 point per 18 km²



First order levelling - ground bench mark

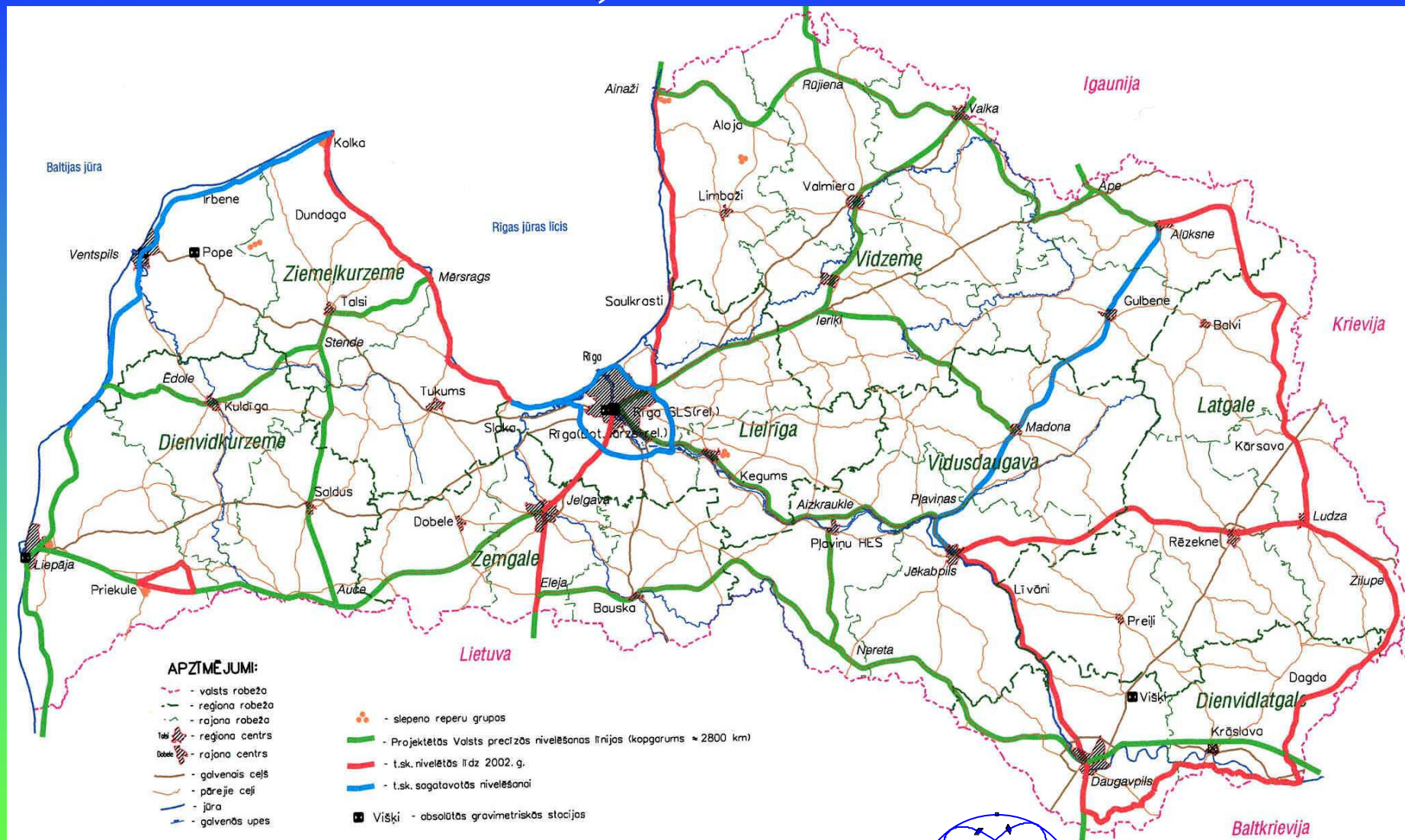


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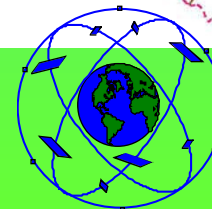


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First order levelling network principal scheme, status - 2004



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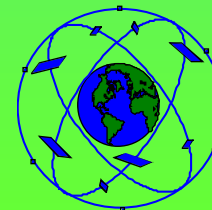


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Additional gravity data at the State Land Service, survey from 1999 - 2003



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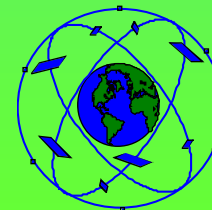


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The map displays the territory of Latvia with its administrative boundaries. Major cities and towns are marked with black dots and labeled. The map also shows the Baltic Sea to the north and the Gulf of Riga. Neighboring countries are labeled: Lithuania (Lietuva) to the west, Poland (Polija) to the south, Belarus (Baltkrievija) to the east, and Estonia (Igaunija) to the north. The map includes numerous place names and coordinates, such as Riga, Ventspils, and Liepāja. It also shows the Baltic Sea and the Gulf of Riga.

A diagram showing the Earth with its magnetic field lines. The field lines are represented by blue loops that emerge from the magnetic south pole (located near the geographic north pole) and re-enter at the magnetic north pole (located near the geographic south pole). The lines are denser near the poles and spread out towards the equator. Arrows on the lines indicate the direction of the magnetic field.

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Role of gravimetry in the 21 st century

GRAVIMETRY

+

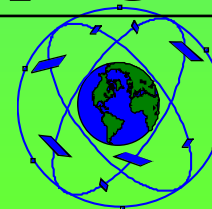
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GPS

LEVELLING

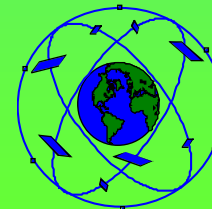
GEOID LV1998

for surveying with GNNS, mapping, GIS, etc.



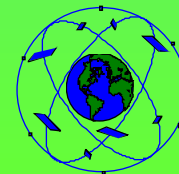
Conclusions:

- Need to participate in international geodetic projects within Baltic countries, NKG and Europe (like ECGN, EGGPr);
- Make contributions to international geodetic society within EuroGeographics, like INSPIRE, etc.;
- Update the Latvian EUREF points aiming the accuracy of class B standard – in progress, together with neighboring countries.
- Preparation and implementation of national permanent GNSS stations and service network (BaltPOS).



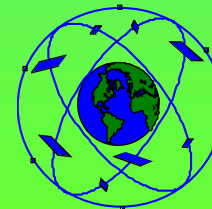
Conclusions (continued):

- **Within Committee of Geodesy, Cartography and Land Reform of the Republic of Lithuania, Republic of Latvia and Republic of Estonia under the Baltic Council of Ministers activate work for implementations of the BaltPOS, unification (renovation) of the vertical geodetic network, etc.**



Thank you for attention!

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