



REPUBLIC of CROATIA
State Geodetic Administration
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NATIONAL REPORT of CROATIA

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National Report of Croatia

EUREF Symposium, Riga 14.-17. 6. 2006.



National Report of Croatia

- **Program of implementation of new geodetic datums and map projections**
- **GPS activities**
- **Development of Unique transformation model**
- **Renovation of fundamental geodetic points**

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Program of implementation of new geodetic datums and map projections

- **Program was adopted on September 15th, 2005.**
- **Program defines:**
 - **all activities and tasks found necessary for their official use implementation,**
 - **time schedule and means of their execution**
 - **carriers and entities that shall participate in their execution**
 - **activities and measures that SGA is to undertake in direction of implementation new geodetic datums and map projections in general use for all space information users, with special accent on government bodies and public systems.**



CROREF 05 GPS - campaign

- **CROREF – 05 GPS campaign was carried out for the purpose of periodical consistency control of basic (EUREF) points of fundamental horizontal network and for the purpose of geodynamic activities in the Adriatic Sea area.**
- **On initiative of SGA of Republic of Croatia, Geodetic Administration of the Republic of Slovenia and Federal Geodetic administration of Bosnia and Herzegovina both joined the CROREF – 05 GPS campaign.**



CROREF 05 GPS - campaign

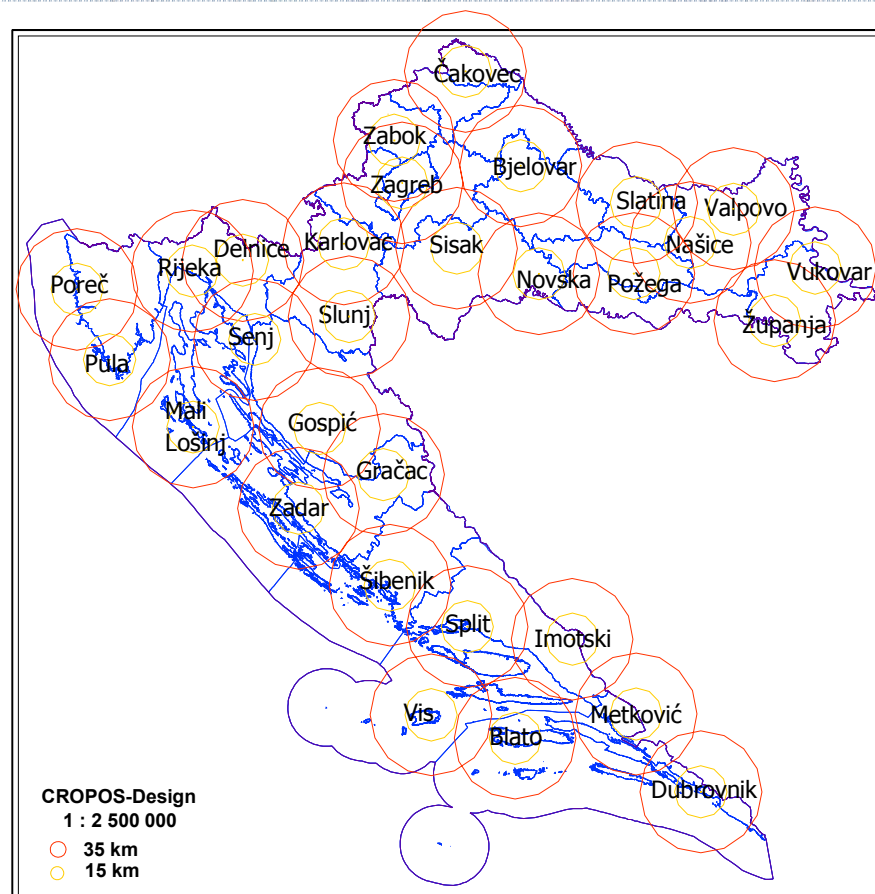


Permanent GNSS- network of the Republic of Croatia - CROPOS

- **CROPOS - CROatian POsition System is the one of the most important projects that shall enable the practical use of new geodetic reference system.**
- **CROPOS project realization has been proposed to EU through the Croatia National Phare 2005 Program that was accepted by the EU last year**
- **Implementation of CROPOS comprises of 30 reference stations covering the whole territory of Croatia and control centre.**
- **The tender for the CROPOS will be launched at the end of August 2006.**



Permanent GNSS- network of the Republic of Croatia - CROPOS



Unique transformation model HTRS96/HDKS

- **For the purpose of data transformation between new - HTRS96 and historical – HDKS reference system, SGA has consigned the project of unique transformation model development**
- **The main goal of that project is to establish uniform and simple transformation system, primarily available to all users.**

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Unique transformation model HTRS96/HDKS

- Based on achieved residuals in more than 1800 identical points, the complex transformation based on shift and distortion modeling, has resulted with horizontal rms misfit of ± 5.1 cm (7-parameter only: ± 73.3 cm) and spatial rms misfit of ± 8.5 cm (7-parameter only: ± 76.5 cm).
- New grid based transformation model ensures much more reliable transformation for the entire territory of Croatia (better than 10 cm) than we had till know.



Renovation of fundamental geodetic network permanent points





**We appreciate your
attention!**

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