

National Report of Croatia

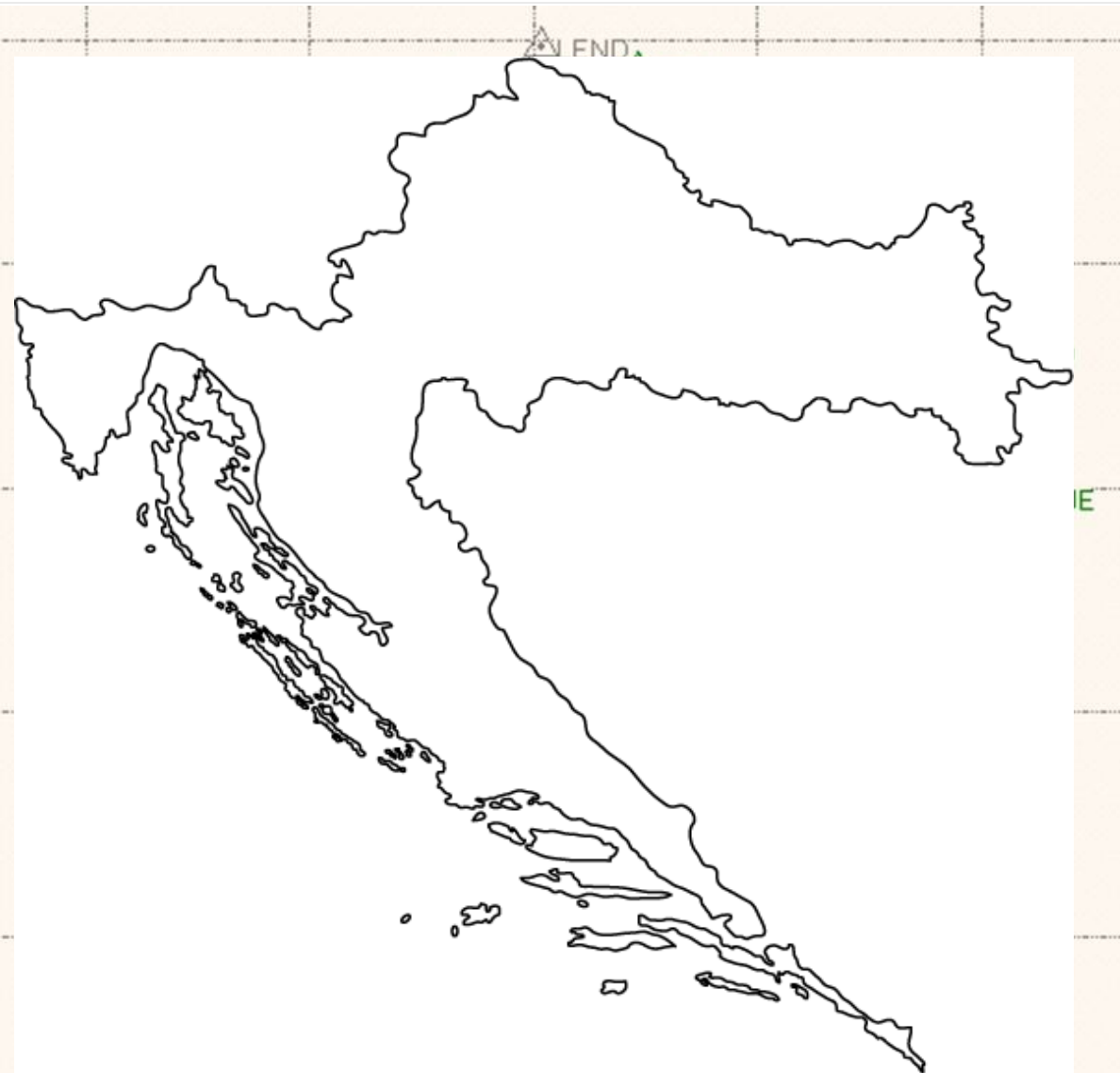
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EUREF 2018 SYMPOSIUM

AMSTERDAM 30 May – 1 June 2018

CROPOS network design



- 33 GNSS reference stations
- 18 stations – exchanging data with neighbouring countries
- 5 stations – EPN (RINEX data)

CROPOS project (CROatian POsitioning System)

- GNSS reference network-

- 2008, December - CROPOS system launched
- financed from PHARE 2005 programme
- Trimble Net R5 receivers, Trimble Zephyr Geodetic antennas
- 2017, January – new Control Centre equipment – new servers, upgrade of software
- The World Bank loan through project ILAS (Integrated Land Administration System)

CROPOS project (CROatian POsitioning System)

- GNSS reference network-

- 2018, January – Application for EU fund – ERDF (European Regional Development Fund)
- **Project:** Improvement of the CROPOS system by connecting to Galileo
- approx. 1 000 000 € (85% - ERDF, 15% - State Budget)
- approved by Ministry of Regional Development

CROPOS project (CROatian POsitioning System)

- GNSS reference network-

- project includes:
 - ✓ 34 new receivers and antennas purchase and installation
 - ✓ Upgrade of Control Center
 - ✓ Testing
 - ✓ Salaries
 - ✓ Promotion
- project duration – 12 month (starting Septembre 1st)

New regulations on performance of fundamental geodetic works

In last period SGA was working on improving Regulation book on performance of fundamental geodetic works.

Aim was to define measuring procedures and results processing in the way of better efficiency and implementation of new services in regulation procedures.

Regulation book on performance of fundamental geodetic works is official since November 2017.

Gravity network of Croatia

➤ GRAVITY NETWORK OF 2nd ORDER

- **RELATIVE GRAVITY MEASUREMENT**

2007 – 2015 > **193 gravity points of II.order**

- **ADJUSTMENT OF NETWORK** through 11 campaigns

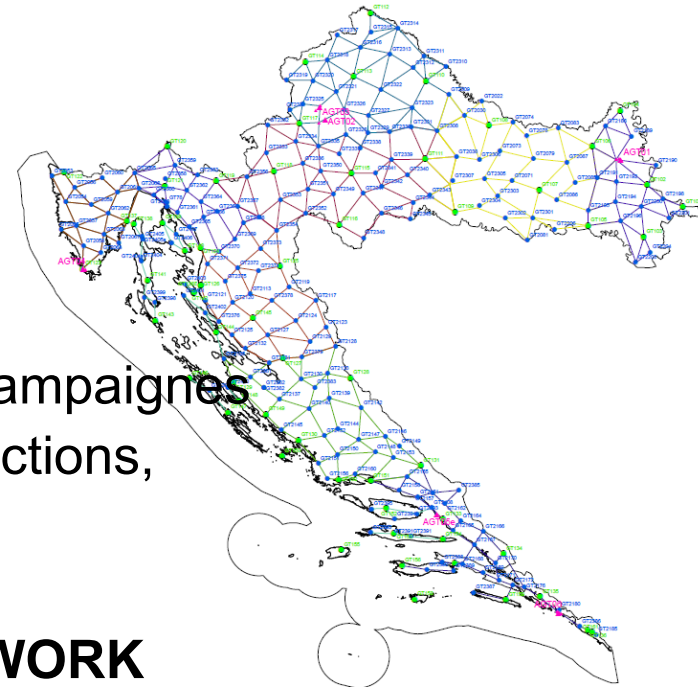
2016 – 2017 > processing of measurement, corrections, reductions

➤ RENEWAL OF ABSOLUTE GRAVITY NETWORK

- *Revision (ZAGREB MAKSIMIR, ZAGREB PUNTIJARKA, OSIJEK, PULA, DUBROVNIK) and establishment of new points (VARAŽDIN, MAKARSKA)*

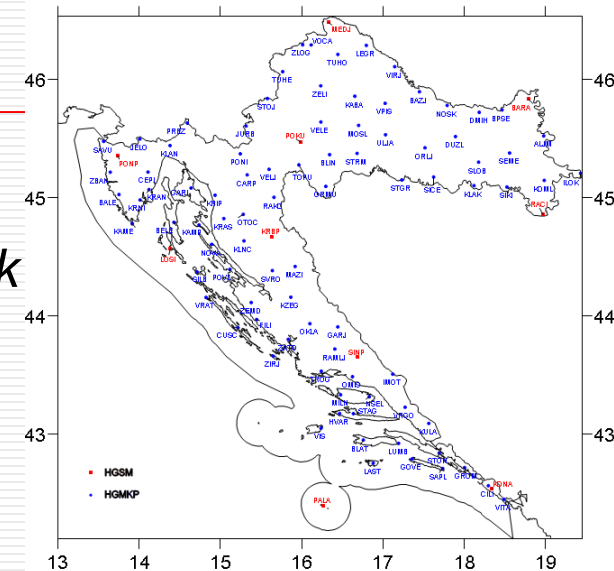
- *Location examination - relative gravity measurements*

> *ABSOLUTE GRAVITY REOBSERVATION – planned in 2019*



Geomagnetic network of Croatia

- Basic geomagnetic network:
10 locations - Geomagnetic Repeat Station Network
88 locations - Geomagnetic Network
- Official models of geomagnetic information:
 GI2009.5 (accuracy of $\pm 2.7'$)
 GI2012 (accuracy of $\pm 6'$)



For the purpose of renewal of geomagnetic information on topographic and navigation maps, in 2017 SGA started with realization of the FIVE YEAR ACTIVITY PLAN - II. CYCLE OF RECONSTRUCTION OF GEOMAGNETIC INFORMATION OF THE REPUBLIC OF CROATIA.

2018: measurement of 10 points of the Basic Geomagnetic Network (secular points): *Pokupsko, Međimurje, Baranja, Račinovci, Ponte Porton, Lošinj, Krbavsko polje, Sinjsko polje, Palagruža and Konavle.*



Tide gauge in Rovinj



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