

Izvješće uz aktivnost **A1.10** Definiranje standarda za upotrebu CROPOS sustava i MT-InSAR metoda u geodinamičkim istraživanjima na području RH (M10-12)

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Istraživanje recentnih regionalnih i lokalnih geodinamičkih procesa na području Republike Hrvatske primjenom suvremenih satelitskih geodetskih metoda

## Rezultat **D1.10**: Napisan prvi dio standarda – Izvori i načini prikupljanja relevantnih podataka te njihovo strukturiranje i pohranjivanje

Napravljeni su prvi koraci u identifikaciji dostupnih izvora relevantnih geodetskih, geoloških i seismoloških podataka koje je moguće upotrijebiti sa svrhom otkrivanja novih i/ili poboljšanja postojećih znanja o recentnim geodinamičkim procesima na području Republike Hrvatske. Rezultat je tablica koja za svaki pojedini geodetski, geološki ili seismološki izvor sintetizira podatke o: nazivu izvora, kratki opis izvora, vrstu izvora (skup podataka ili usluga), naziv odgovorne institucije, adresu izvora, format podataka, referentni koordinatni sustav, vremenski obuhvat, prostornu rezoluciju, vremensku rezoluciju, te podatke o ograničenjima pristupa i korištenja izvora.

Tablica je dio publikacije objavljene u zborniku radova s međunarodne konferencije *GeoInformation for Disaster Management Gi4DM 2019*, Prag, 3-6. rujna 2019:

Kuveždić Divjak, A., Govorčin, M., Matoš, B., Đapo, A., Stipčević, J., and Pribičević, B.: GEOINFORMATION FOR RESEARCH OF ONGOING GEODYNAMIC PROCESSES IN THE REPUBLIC OF CROATIA, Int. Arch. Photogramm. Remote Sens. Spatial Inf. Sci., XLII-3/W8, 233–240, <https://doi.org/10.5194/isprs-archives-XLII-3-W8-233-2019>, 2019.

Fokusirajući se na komplementarnost geodetskih, geoloških i seismoloških podataka, u radu raspravljamo o izazovima koji se vežu uz njihovu integriranu uporabu (npr. pristupni protokoli, standardiziranost podataka, kvaliteta podataka, ažurnost, heterogenost dostupnih podataka i sl.).

- Prilog 1. Tablica s pregledom dostupnosti, obuhvata, preciznosti i upotrebe mogućih izvora podataka za otkrivanje novih i poboljšanje postojećih znanja o recentnim geodinamičkim procesima na području Republike Hrvatske

Source title	EUREF Permanent Network (EPN), station positions and velocities	Geological Maps of the Republic of Croatia	The European Database of Seismogenic Faults (EDSF)	Croatian Earthquake Catalogue (CEC)	SHARE European Earthquake Catalogue (SHEEC) 1000-1899	Croatian Earthquake Hazard Maps	COMET-LiCS Sentinel-1 InSAR Portal
Description	A science-driven network of permanent GNSS tracking stations whose weekly computed positions are used by EUREF to realize the European Terrestrial Reference System (ETRS89).	Official geological maps of the Republic of Croatia at the scale of 1:50 000, 1:100 000 and 1:300 000	EDSF includes only faults that are identified and mapped as neotectonics active faults, i.e., possible seismogenic sources capable of generating earthquakes of magnitude equal to or larger than 5.5. It aims to ensure a homogeneous input for use in ground-shaking hazard assessment in the Euro-Mediterranean area.	CEC is the main database about the past and present earthquakes in Croatia covering period from 373 BC until today compiled using all data on earthquakes from the archives of the Department of Geophysics, Faculty of Science, University of Zagreb (the catalogues, macroseismic reports, seismograms, and other related documents).	SHEEC is a European parametric earthquake catalogue, as much homogeneous as possible, which covers the time window 1000–1899. Developed within the frame of the European Commission project SHARE compiled from European Archive of Historical Earthquake Data.	Maps of seismic hazard in Croatia expressed by the probability of exceedance of PGA for return periods of 475 years and 95 years.	Online Catalog of Sentinel-1 generated interferograms and coherence maps. Results are available for download as Derived Works of Copernicus data (2015–2016) through interactive online map. Products are: Unfiltered wrapped phase (Quicklook, Magnitude, Phase), Coherence (Quicklook, Phase) and filtered unwrapped phase (quicklook, unwrapped interferogram)
Responsible organization	IAG (International Association of Geodesy) Regional Reference Frame sub-commission for Europe, EUREF.	Croatian Geological Survey	Italian National Institute of Geophysics and Volcanology (INGV)	Department of Geophysics, Faculty of Science and Mathematics, University of Zagreb	Istituto Nazionale di Geofisica e Vulcanologia, Milan	Department of Geophysics, Faculty of Science and Mathematics, University of Zagreb	COMET, School of Earth and Environment, University of Leeds, England
Source locator	<a href="http://www.epncb.oma.be">http://www.epncb.oma.be</a>	<a href="http://www.hgi-cgs.hr/geoportal.htm">http://www.hgi-cgs.hr/geoportal.htm</a>	<a href="http://diss.rm.ingv.it/share-edsf">http://diss.rm.ingv.it/share-edsf</a>	<a href="https://www.pmf.unizg.hr/geof/">https://www.pmf.unizg.hr/geof/</a>	<a href="https://emidius.eu/SHEEC">https://emidius.eu/SHEEC</a>	<a href="http://seizkarta.gfz.hr">http://seizkarta.gfz.hr</a>	<a href="https://comet.nerc.ac.uk/COMET-LiCS-portal">https://comet.nerc.ac.uk/COMET-LiCS-portal</a>
Source type	spatial dataset	spatial dataset	spatial dataset	spatial dataset	spatial dataset	spatial dataset	service
Distribution format	SINEX	PDF, 1:300 000 also as web application	MapInfo mif/mid ESRI shapefile	textual	MS Excel, Interactive web application	PDF, Interactive application	Raster (geotiff)
Reference coordinate system	Geocentric coordinate system for Europe	Projected coordinate system for Croatia HTRS96 / TM	Geodetic coordinate system for World	Geodetic coordinate system for World	Geodetic coordinate system for World	No standard map projection, orthogonal coordinates	Geodetic coordinate system for World
Temporal coverage	Start date: 1995	1982–(1:50 000), 1962–1992 (1:100 000), 2006–2009 (1:300 000)	n/a	Covers the period since 373 BC until today	Time window 1000–1899	Published in 2011	02.09.2016–31.05.2018
Spatial resolution	Station distances between 100 and 500 km or more.	Map scale: 1:50 000, 1:100 000, 1:300 000	n/a	n/a	n/a	Map is compiled at the approximate scale of 1:800 000	260 km x 360 km (per product)
Temporal resolution	Daily Hourly	Does not require frequent updating.	n/a	Regularly updated.	n/a	Planned revision and update every 5–7 years.	12 days
Restrictions and terms of use	Freely available.	Purchase or inquiry upon request.	Designed as "work in progress", and as such it is open to later additions and improvements	Croatian Earthquake Catalogue (CEC) is not available on line. It is stored in the archives of the Department of Geophysics of the Faculty of Science, University of Zagreb.	Open-access upon registration. It can be used for scientific purposes, only, quoting the reference indicated.	Freely available for download as PDF in full resolution. The maps were accepted as a part of the Croatian National Annex to the EC8 in 2012.	Open-access