

Svjetski dan GIS-a / World GIS Day

KARTOGRAFSKA OBRADA TEMATSKIH KARATA

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Sadržaj

- Prikupljanje podataka za izradu tematskih karata
- Izbor kartografske projekcije
- Obrada podataka EuroGlobalMapa
- Obrada meteoroloških podataka
- Završna kartografska obrada i priprema za tisak

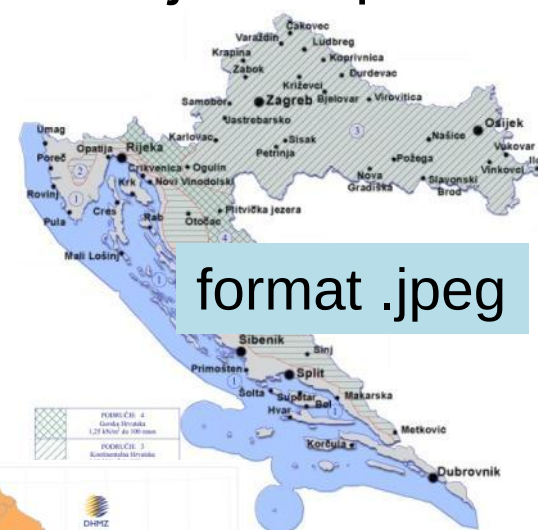
Prikupljanje podataka

EuroGlobalMap

All Access Objects		OBJECT	Shape	FCSubt	gfid	F_CODE	ICC	SN	NAMN1	
Tables										
ADMIN_ISN	2	Long binary data	1	52A67885-FAEF-4A51-AL020	HR	2010	Krk	N		
AirIdP	3	Long binary data	1	CABF6514-61BA-49F1-AL020	HR	2010	Punat	N		
AirIdP_Shape_Index	4	Long binary data	1	1225720A-CE54-4AE1-AL020	HR	2010	Bribir	N		
BuildupA	5	Long binary data	1	B010CC78-BB69-4251-AL020	HR	2010	Novi Vinodolsi	N		
BuildupA_Shape_Index	6	Long binary data	1	0560AEE3-SAA7-48F1-AL020	HR	2010	Brinje	N		
BuildupP	7	Long binary data	1	92B4CEE4-31E0-40E1-AL020	HR	2010	Plaški	N		
BuildupP_Shape_Index	8	Long binary data	1	98F6C531-D276-42E1-AL020	HR	2010	Slunj	N		
CoastA	9	Long binary data	1	3E1450CF-1451-45D1-AL020	HR	2010	Dvor	N		
CoastA_Shape_Index	10	Long binary data	1	04A64FEF-9F6E-4381-AL020	HR	2010	Otočac	N		
CoastL	11	Long binary data			R	2010	Kampor	N		
CoastL_Shape_Index	12	Long binary data			R	2010	Palit	N		
DamL	13	Long binary data			R	2010	Banjol	N		
DamL_Shape_Index	14	Long binary data			R	2010	Korenica	N		
	15	Long binary data			R	2010	Lički Osik	N		
	16	Long binary data	1	6ED5DEEF-993C-4C51-AL020	HR	2010	Starigrad	N		
	17	Long binary data	1	29BEE885-78FB-4FC1-AL020	HR	2010	Vir	N		
	18	Long binary data	1	76D9CFCC-6C5D-47C1-AL020	HR	2010	Privlaka	N		

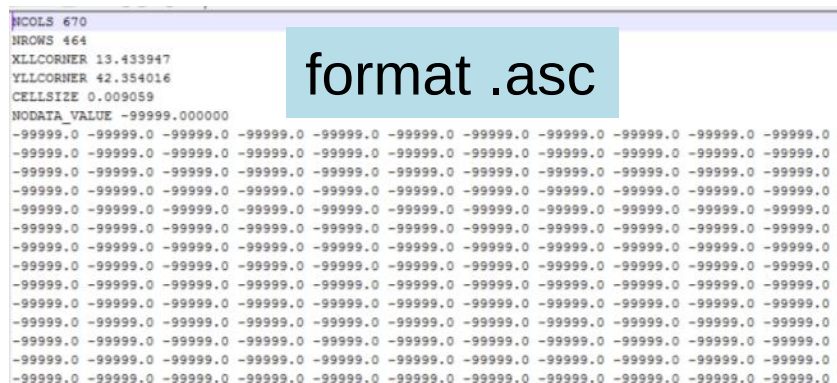
format .mdb

Granice snježnih područja

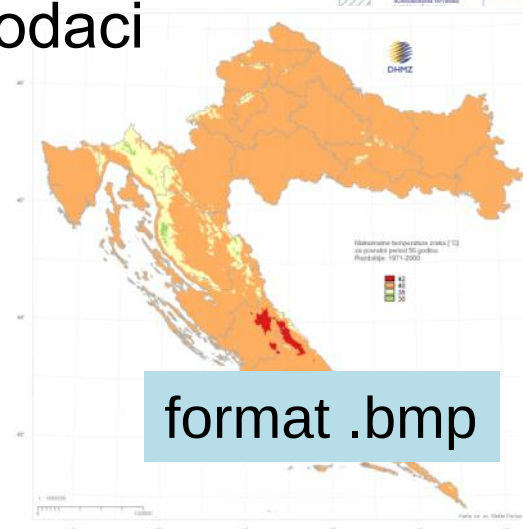


format .jpeg

Meteorološki podaci



format .asc



format .bmp

Izbor kartografske projekcije

- *Odluka o utvrđivanju službenih geodetskih datuma i ravninskih kartografskih projekcija Republike Hrvatske (NN 110/2004)*
 - članak 4. stavak 2

Koordinatni sustav uspravne Lambertove konformne konusne projekcije – skraćeno HTRS96/LCC, sa standardnim paralelama $43^{\circ}05'$ i $45^{\circ}55'$ određuje se projekcijskim koordinatnim sustavom Republike Hrvatske za područje pregledne državne kartografije.

Obrada podataka EuroGlobalMapa

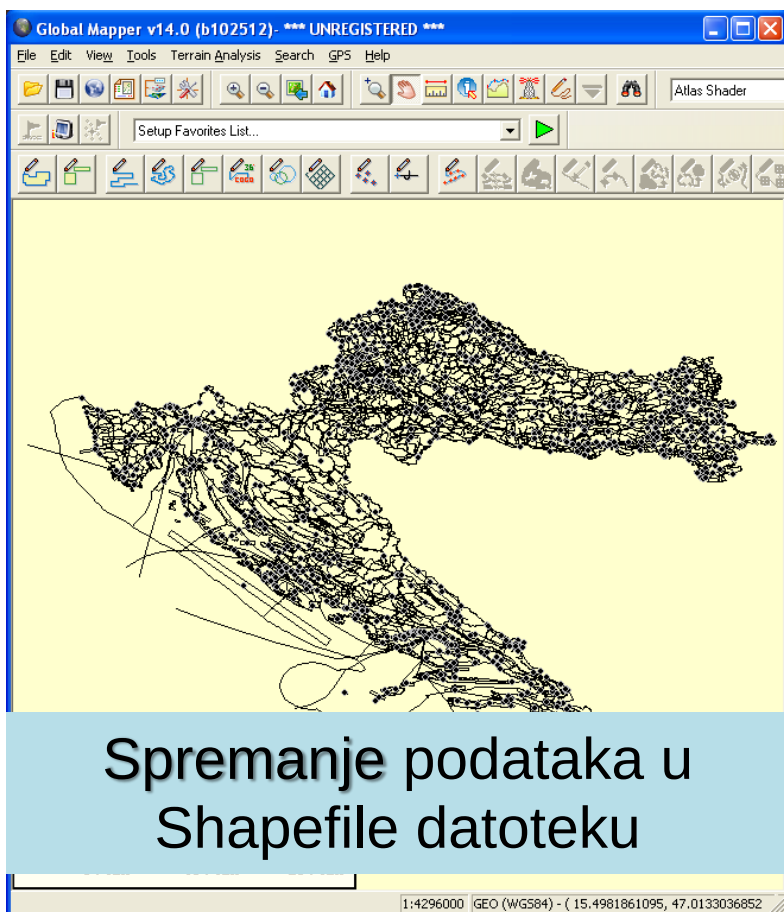
Tehnički opis:

- digitalni vektorski podaci u formatu ArcGIS Personal Geodatabase (.mdb)
- geografske koordinate u decimalnim stupnjevima (elipsoid WGS84 (GRS80))
- sadržaj podijeljen na 6 osnovnih tema
 - administrativne granice
 - hidrografija
 - transport (promet)
 - izgrađena područja
 - visine
 - imena

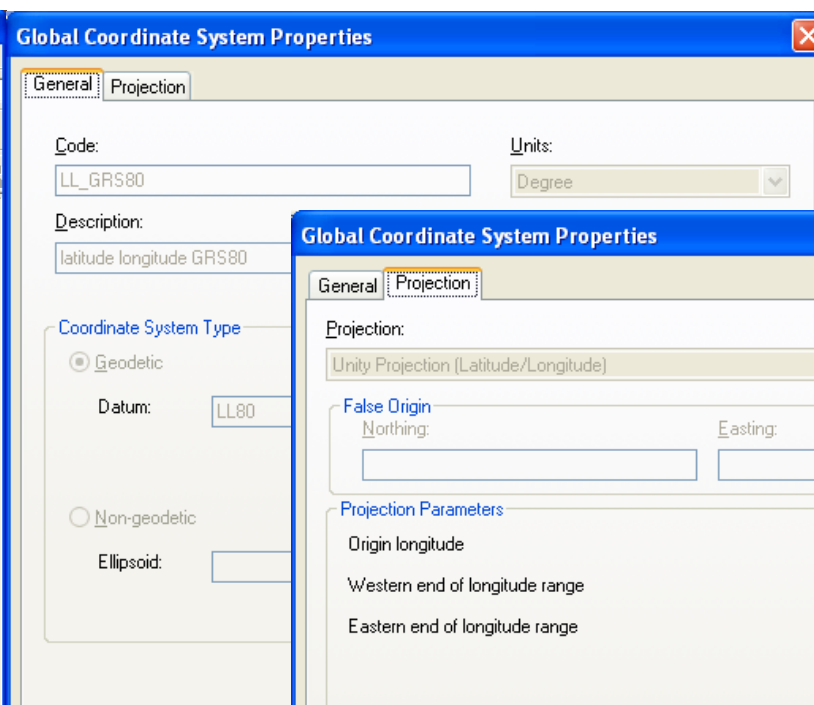
Obrada podataka EuroGlobalMapa

Global Mapper

AutoCAD Map 3D 2010

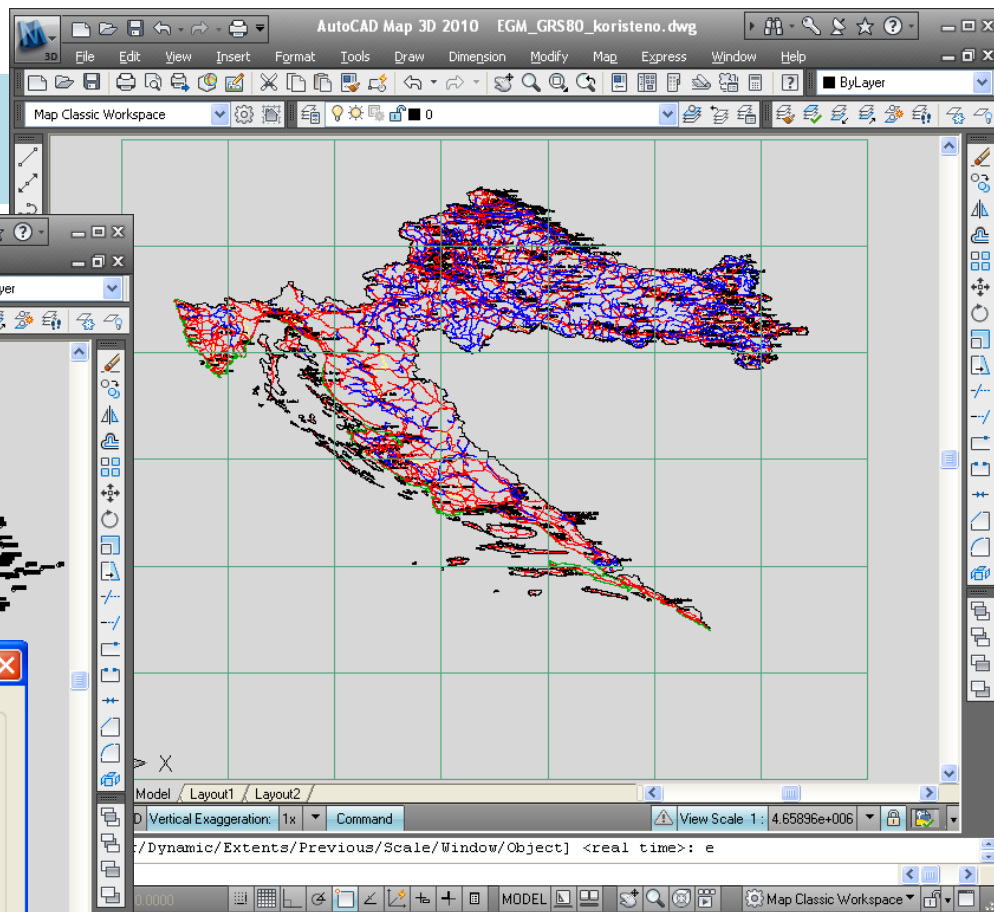
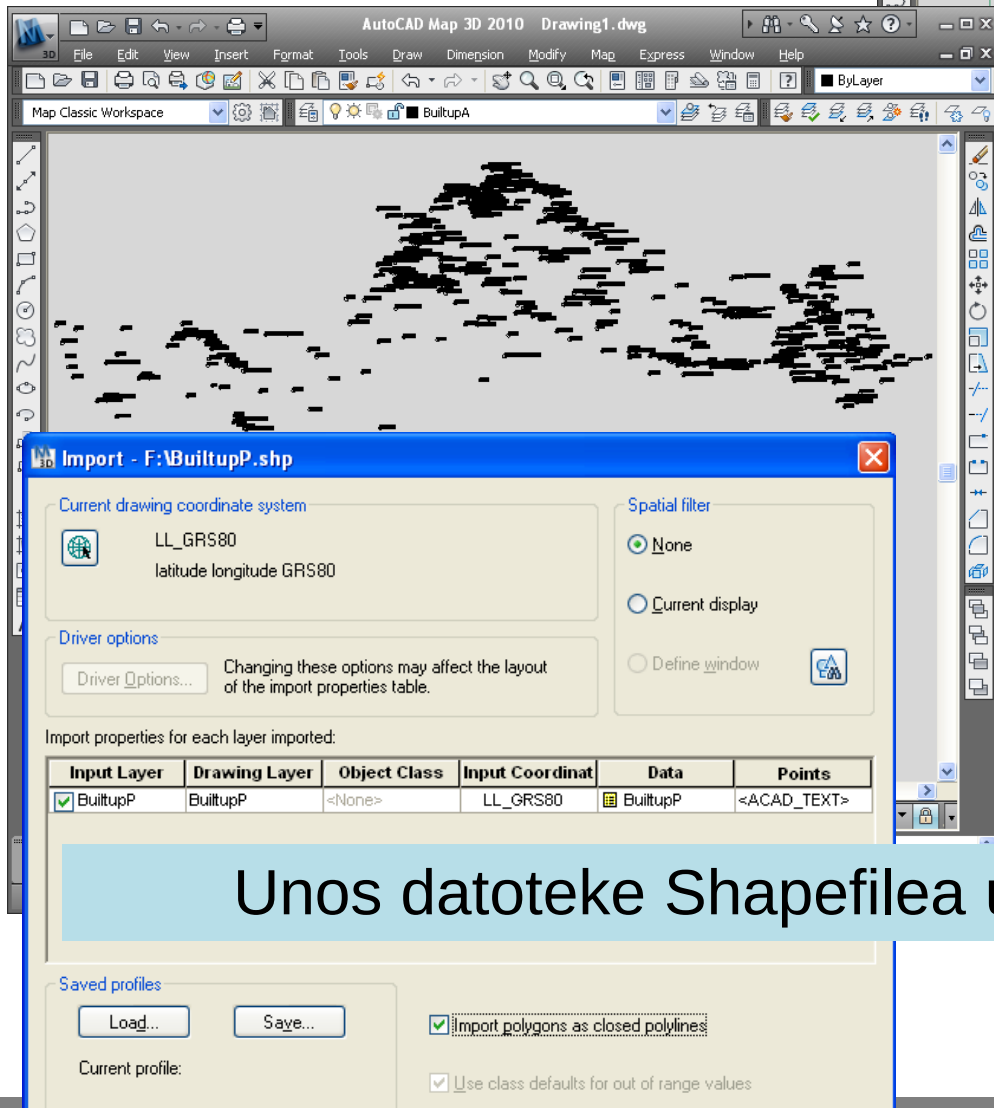


Spremanje podataka u
Shapefile datoteku



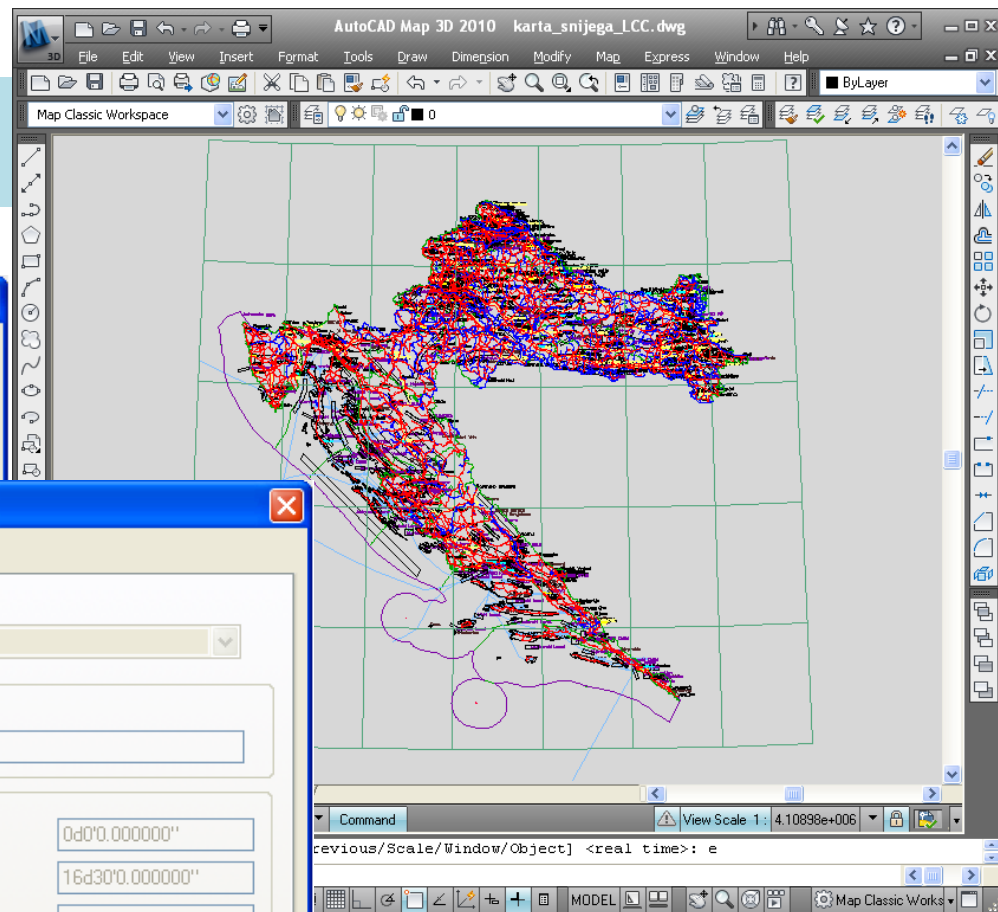
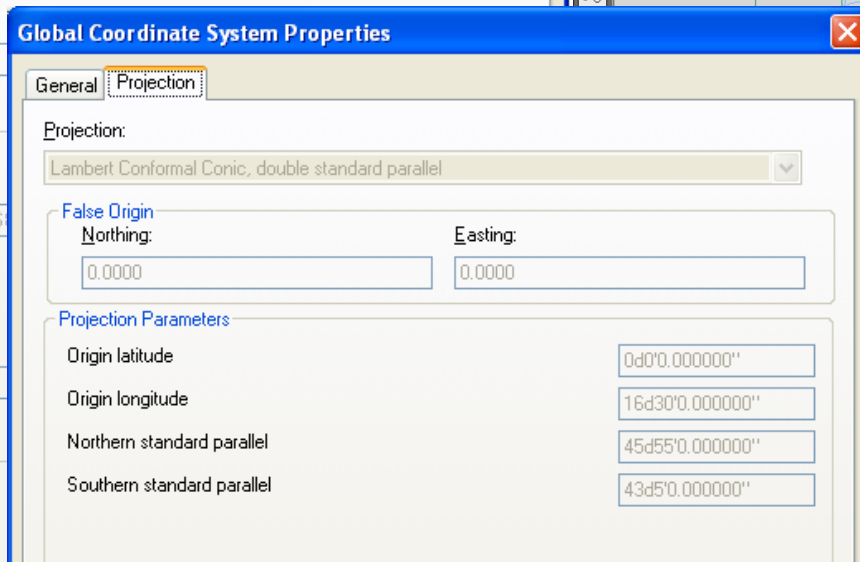
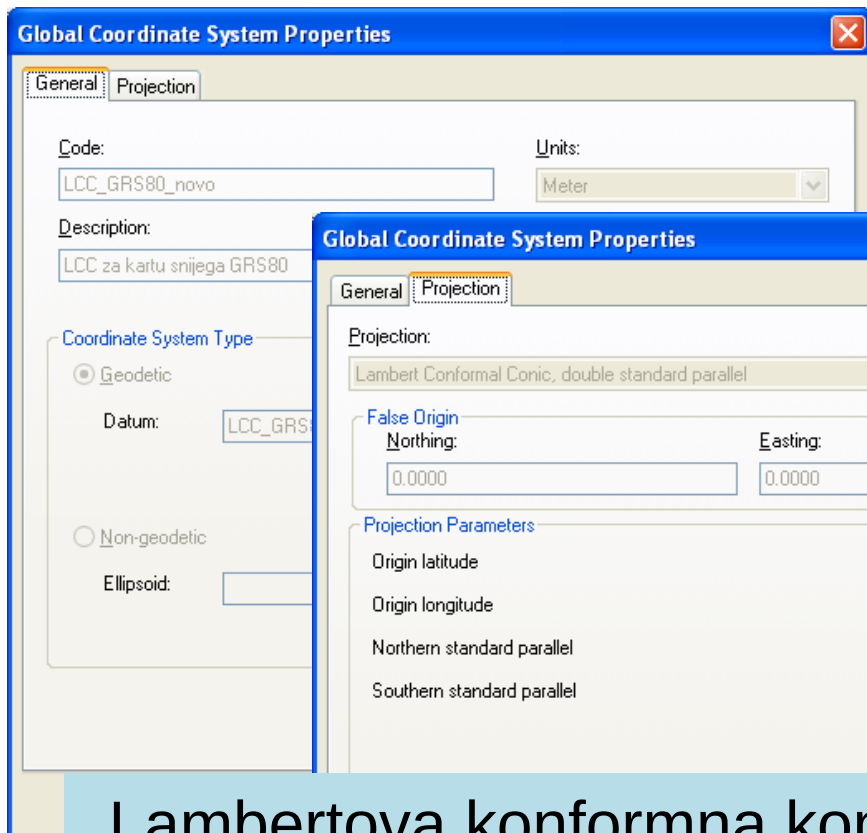
Definiranje
geografske projekcije, elipsoid GRS80

AutoCAD Map 3D 2010



Unos datoteke Shapefilea u geografsku projekciju

AutoCAD Map 3D 2010



Lambertova konformna konusna projekcija sa standardnim paralelama 43°05' i 45°55', elipsoid GRS80

AutoCAD Map 3D 2010



EuroGlobalMap

Pan-European Database at Small Scale

Specification and Data Catalogue

Security (distribution level): Public
Project Coordinator: National Land Survey of Finland
Participant Short Name: NLS-F
Other contributors: IGNB, BKG
Number of pages: 84 pages
File name: egmspec3.2.doc

File name	Egmspec3.2.doc		
Version	Author	Date	Comments
3.2 (final)	NLS-F, BKG, IGNB	10.11.2008	Changes to v3.1 with red text

Keywords: Generalization, accuracy, spatial feature, metadata, feature and attribute coding structure, topology

Abstract (for dissemination):

The product defined is referred to as EuroGlobalMap. The purpose of these specifications is to provide a description of the content, accuracy and design philosophy of EuroGlobalMap. Conformance to this specification will insure uniformity among all mapping and charting agencies engaged in a co-ordinated production and maintenance program for the product range.

The image shows two overlapping dialog boxes from AutoCAD Map 3D 2010. The top dialog, 'Create Node Topology - Select Topology Type', has a 'Topology Type' section with 'Node' selected (radio button). It also has a 'Select Nodes' section and a 'Topology name' field containing 'gradovi'. A preview window shows a set of points. The bottom dialog, 'Define Query of Topology gradovi', has a 'Current Query' field with the text 'Data: BuiltupP.PPL > 5000'. It includes buttons for 'Edit...', 'Group', 'Ungroup', 'Delete', and 'Clear Query'. Below this are sections for 'Query Type' (with 'And' selected), 'Query Mode' (with 'Draw' selected), and 'Options' (with 'Alter Properties...' checked). At the bottom are buttons for 'Execute Query', 'OK', 'Cancel', and 'Help'.

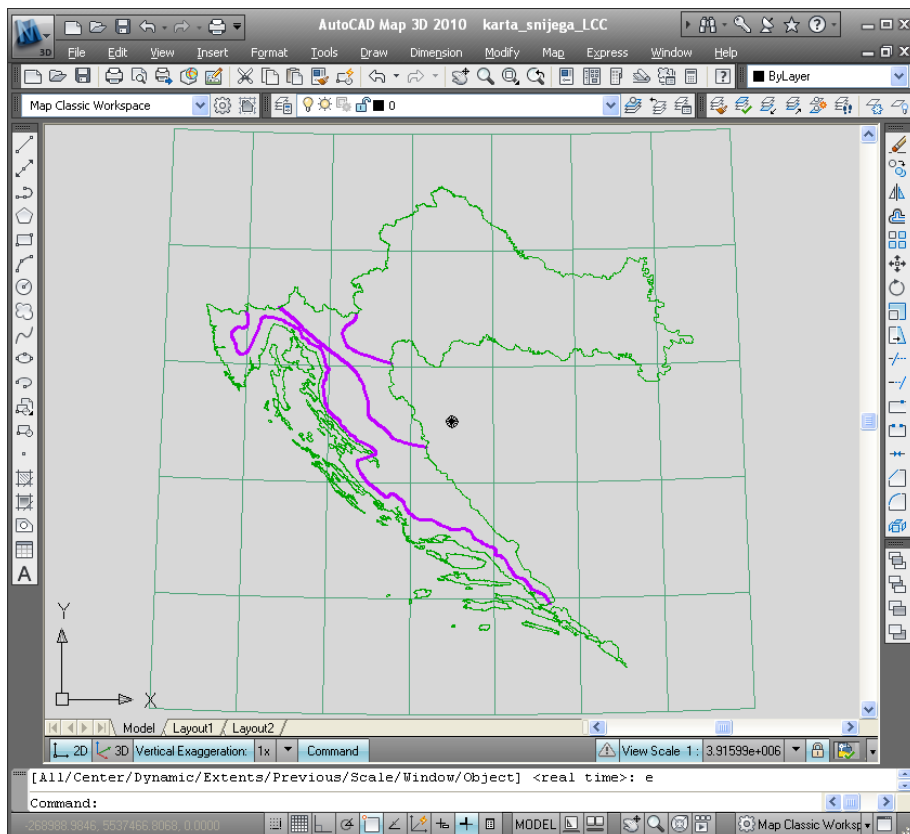
Kreiranje upita i filtriranje podataka

Nedostaci EuroGlobalMapa

- Nema otoka Jabuke i Palagruže – važni u definiranju granice teritorijalnog mora
- Dio ceste Zagreb – Jastrebarsko kategorizirana kao županijska cesta – zapravo je dio državne ceste D1
- Broj stanovnika iz popisa iz 2001. godine – ne odgovara zadnjem popisu iz 2011.
- Krivi podatak u broju stanovnika Odranskog Obreža (14 006) – ispravno 1 406 stanovnika
- Promijenjen je naziv najvišeg vrha Učke (Učka) u Vojak

Obrada meteoroloških podataka

Granice snježnih područja



Format ArcInfo ASCII Grid

NCOLS 670

NROWS 464

XLLCORNER 13.433947

YLLCORNER 42.354016

CELLSIZE 0.009059

NODATA_VALUE -99999.000000

-99999.0 -99999.0 -99999.0 -99999.0 -99999.0

-99999.0 -99999.0 -99999.0 -99999.0 -99999.0

-99999.0 -99999.0 -99999.0 -99999.0 -99999.0

Rezolucija

Oznaka za nedostatak
podatka

-99999.0 -99999.0 -99999.0 -99999.0 -99999.0

-99999.0 -99999.0 -99999.0 -99999.0 -99999.0

-99999.0 -99999.0 -99999.0 -99999.0 -99999.0

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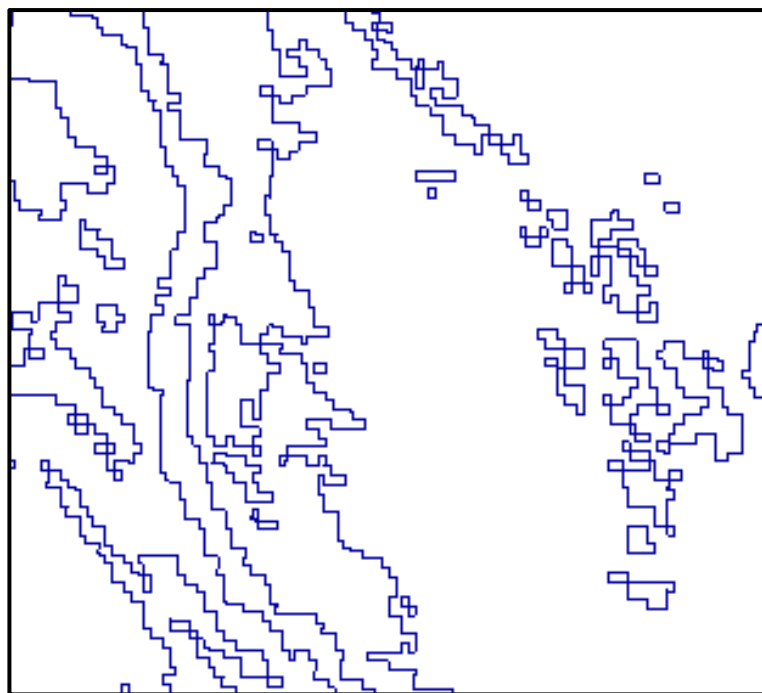
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-99999.0 -99999.0 -99999.0 -99999.0 -99999.0

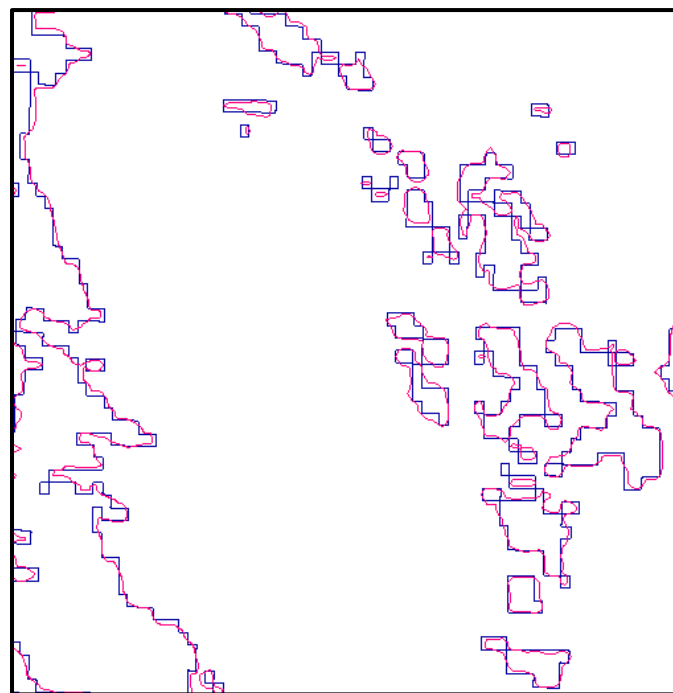
GRASS GIS



r.neighbors

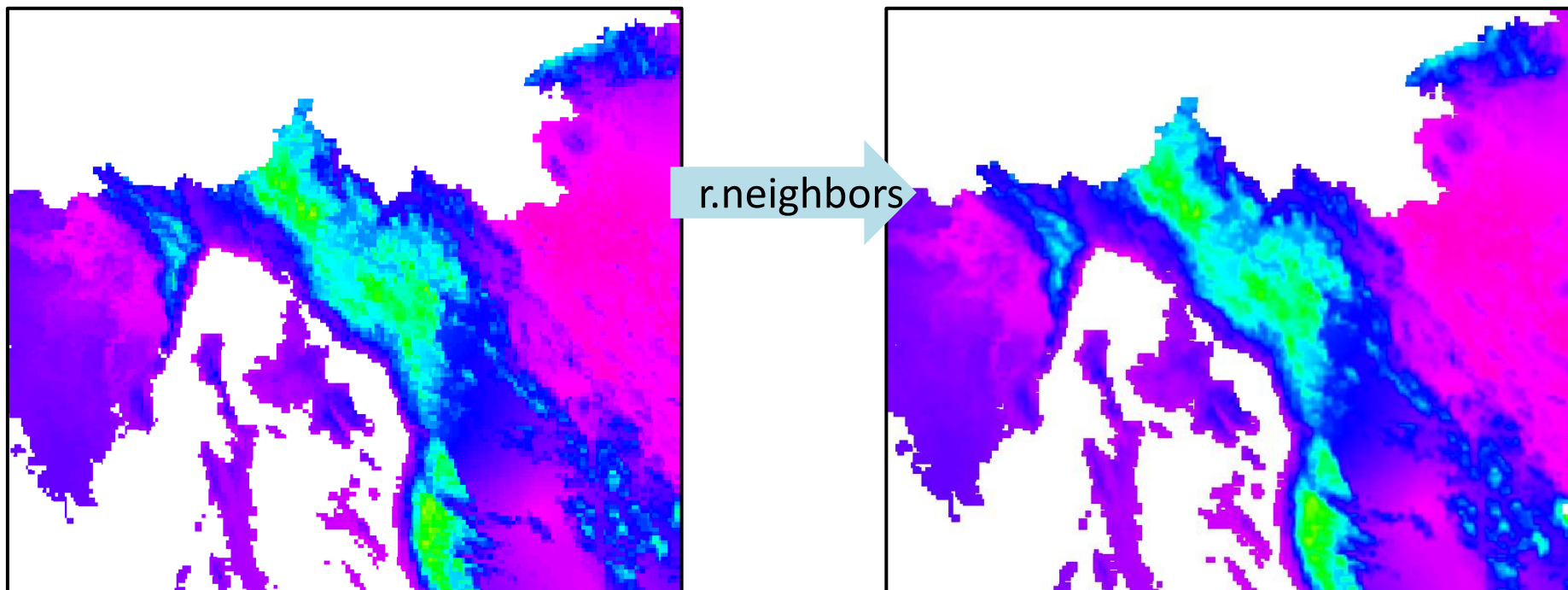
r.mapcalc

r.contour



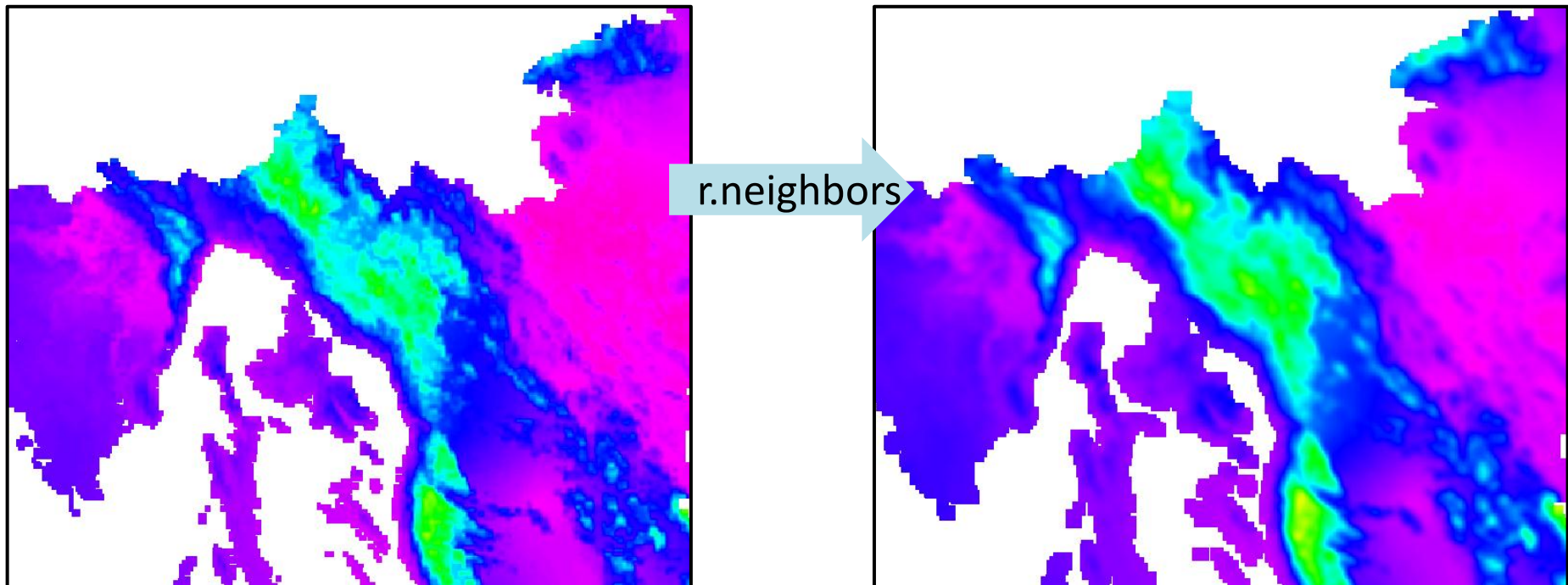
Generalizacija Quantum GIS

GRASS GIS



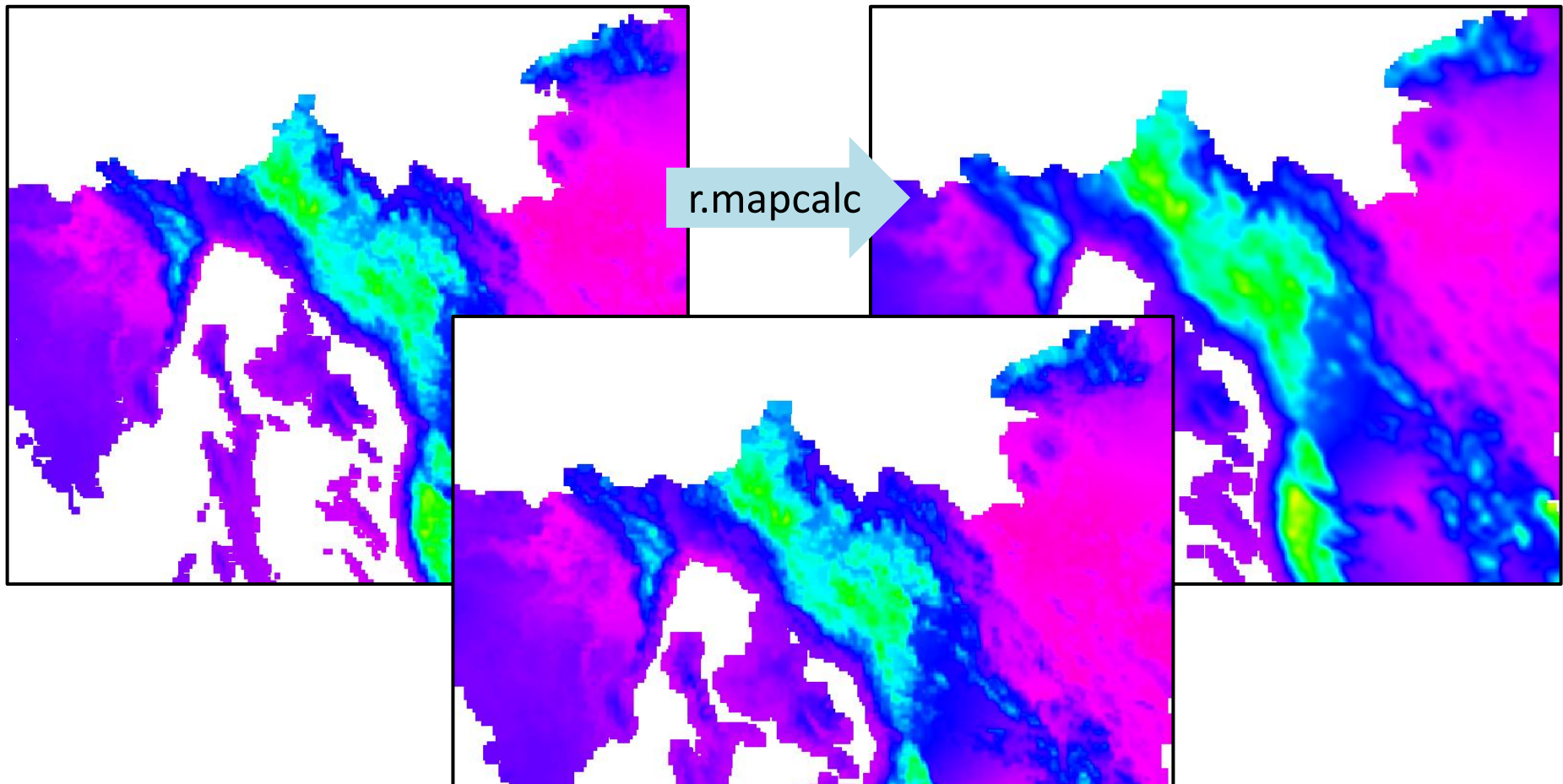
r.neighbors input="temp_max@RH_LCC" output="temp_max_glad1"
method="average" size=3

GRASS GIS



r.neighbors input="temp_max_glad1@RH_LCC" output="temp_max_glad2"
method="average" size=7

GRASS GIS



```
r.mapcalc temp_max_glad_end=if(isnull(temp_max_glad1), temp_max_glad2,  
temp_max_glad1)
```

Dialog

Process Documentation

v.cartographic.line.generalization

2D-vector based cartographic line generalization with property of preserving features area.

[input]
Data source for OGR access
((Mime-Type: 'text/xml', 'Encoding': 'utf-8', 'Schema':
http://schemas.opengis.net/gml/2.1.2/feature.xsd))

[where]
Example: income < 1000 and inhab >= 10000

[layer]
A single vector map can be connected to multiple database tables. This number
determines which table to use. Layer name for OGR access.

[medium]
Medium for map presentation

[angle]
Minimum angle between connected segments in degrees [0-170]

[-c]
Copy attributes

[type]
Feature type

[fineadj]
Adjustment of degree of generalization in percents [50-200]

[map_scale_denominator]
Map scale denominator [1-1000000000]

[cats]
Example: 1,3,7-9,13

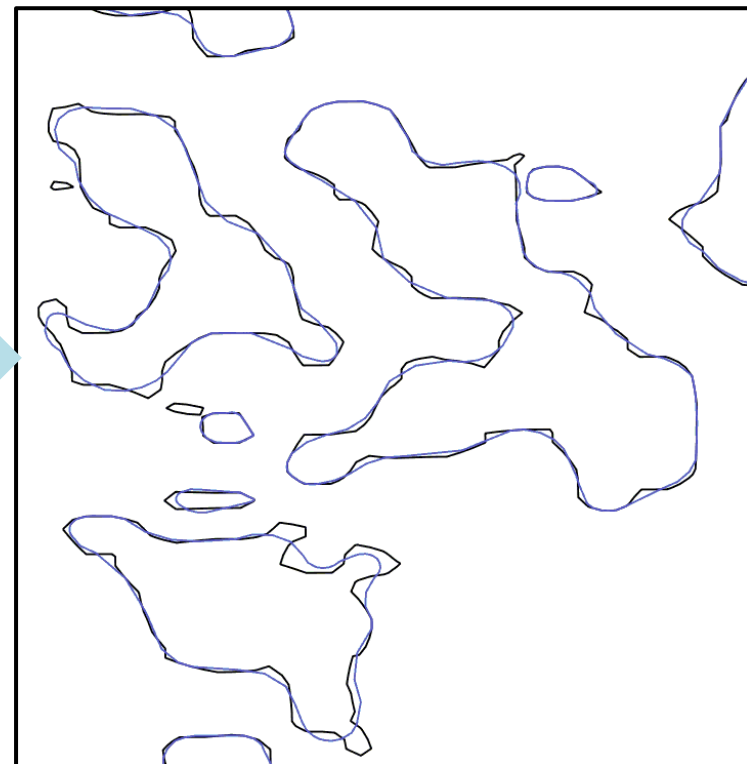
[maptype]
Map type for which generalization is performed

[-r]
Remove features which appear to small on the map

[linewidth]
Ratio of targeted and default line width which equals 1 unit

Back Run

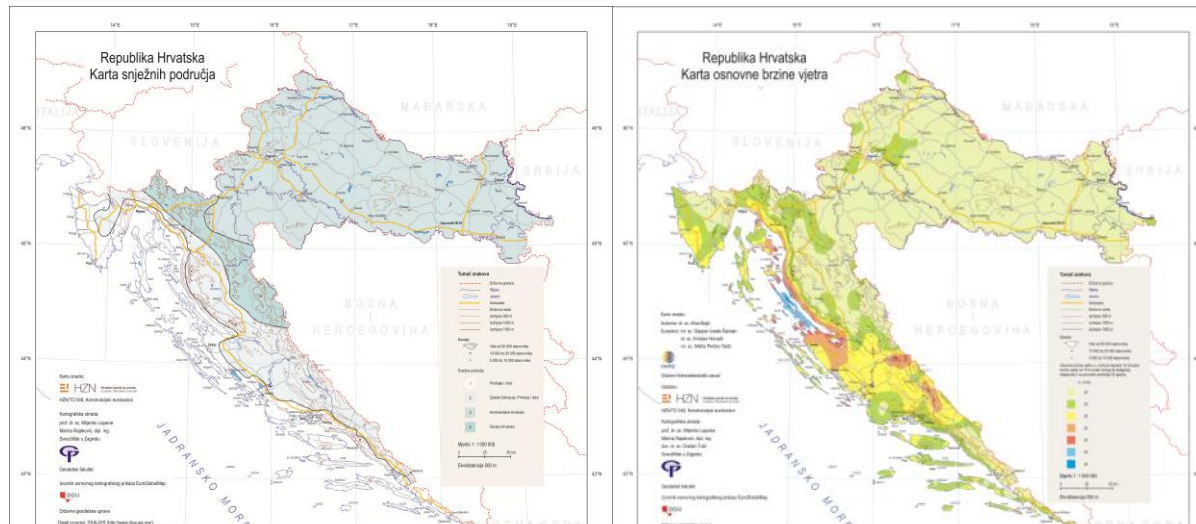
generalizacija



WPS server

<http://wps.kartografija.hr/pywps/cgi-bin/pywps.cgi>

Završna kartografska obrada i priprema za tisak



Hvala na pažnji!

