

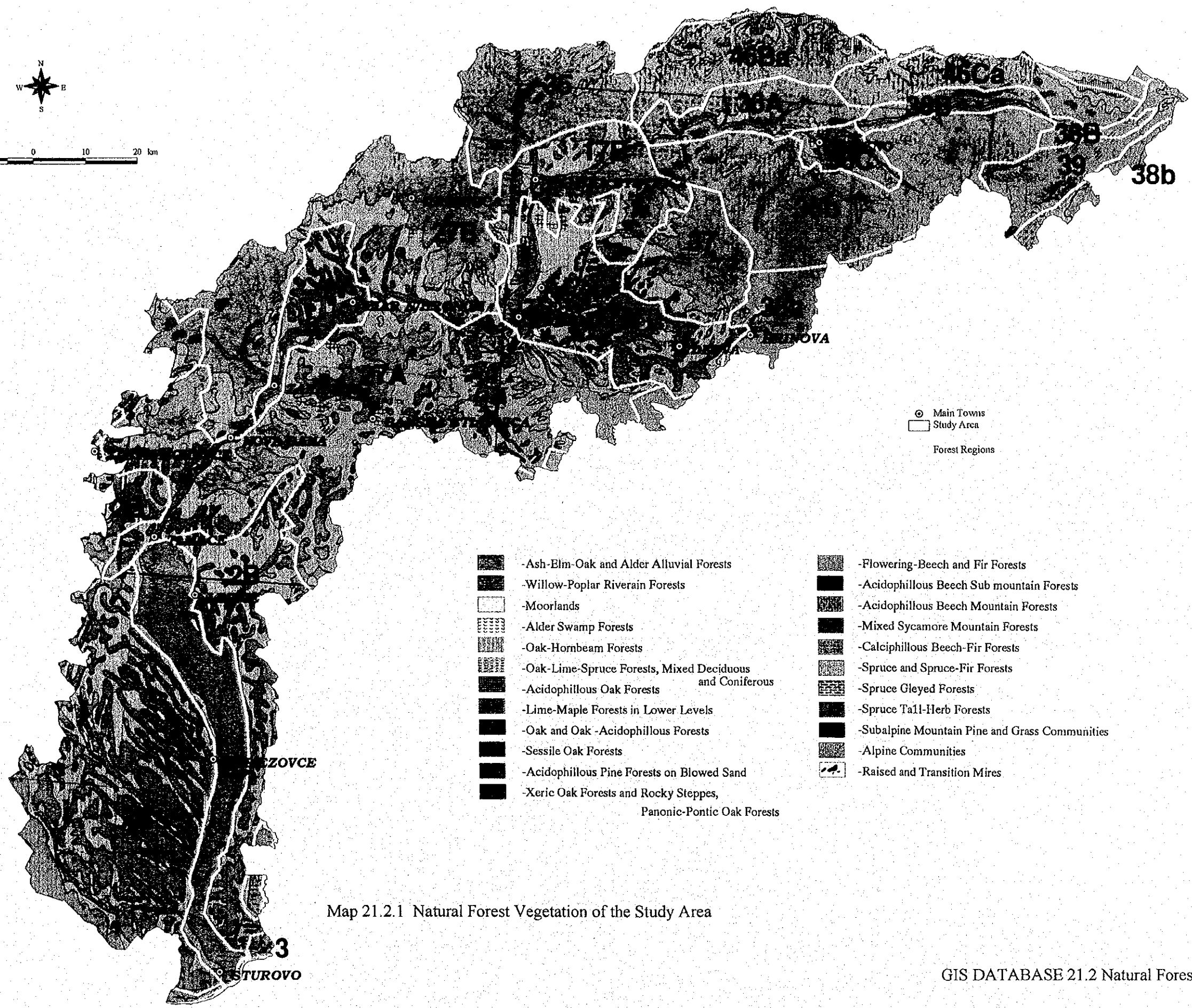
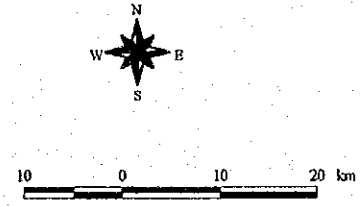
Map 21.1.1 Distribution of Endemic Species in Slovakia

- Main Towns
- Main Rivers
- ▨ the Study Area
- Boundary of the Slovak Republic

Endemic Species

- *Dianthus serotinus*
- *Pulsatilla hungarica*
- *Sedum hillebrandtill*
- *Colchicum arenarium*
- *Armoracia macrocarpa*
- *Viola dacica*
- *Ranunculus carpaticus*
- *Euphorbia sojakii*
- *Acontium lasiocarpum*
- *Dianthus nitidus*
- *Dianthus lumnintzeri*
- *Dianthus hungaricus*
- *Delphinium oxysepalum*
- *Cyclamen fatrense*
- *Daphne arbuscula*
- *Kclereia tristis*
- *Onosma tornense*
- *Pulsatilla stavica*
- *Saxifrage wahlenbergii*
- *Chrysanthemum zawadzki* ssp. *zawadzki*
- *Papaver tatricum*

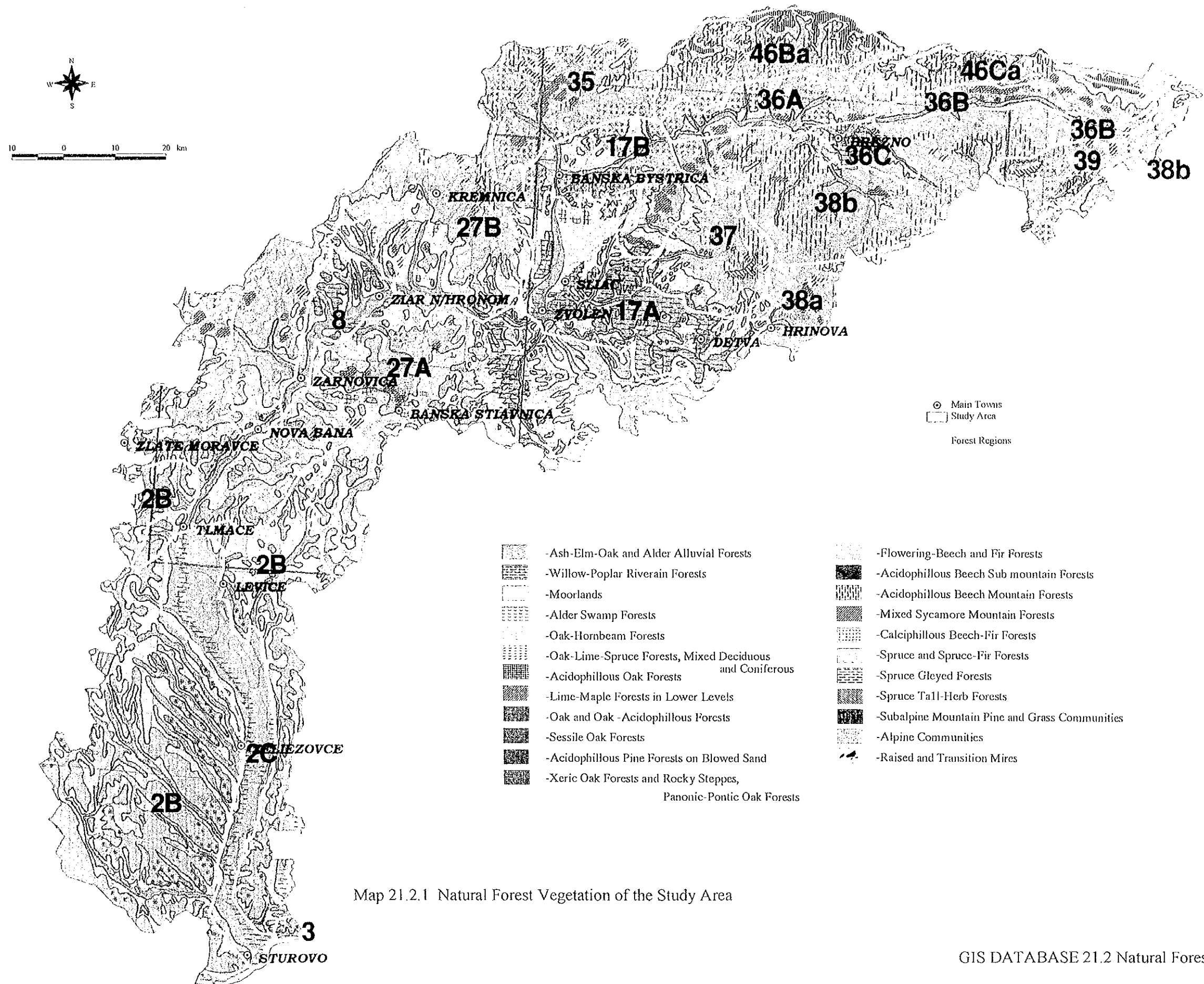
GIS DATABASE 21.1 Endemic Species



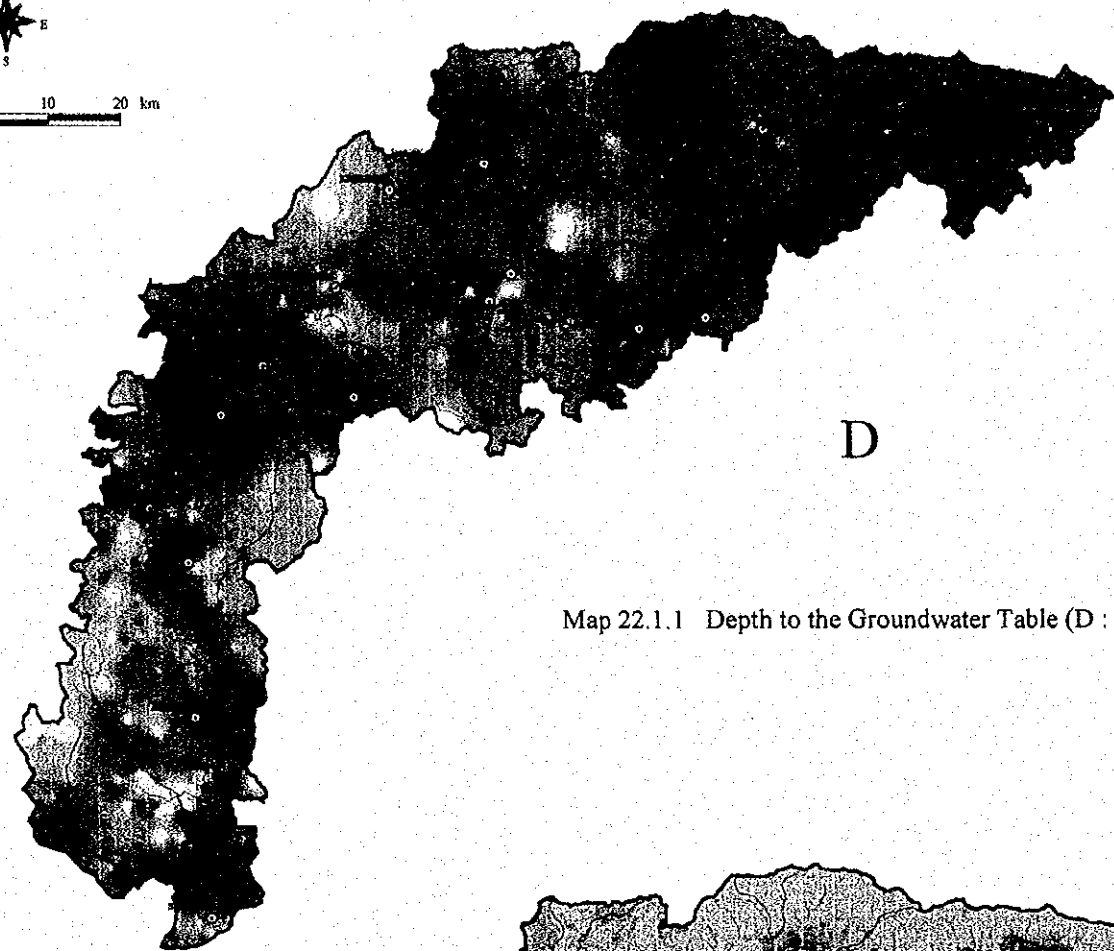
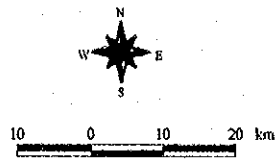
⊙ Main Towns  
 □ Study Area  
 Forest Regions

- |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>-Ash-Elm-Oak and Alder Alluvial Forests</li> <li>-Willow-Poplar Riverain Forests</li> <li>-Moorlands</li> <li>-Alder Swamp Forests</li> <li>-Oak-Hornbeam Forests</li> <li>-Oak-Lime-Spruce Forests, Mixed Deciduous and Coniferous</li> <li>-Acidophilous Oak Forests</li> <li>-Lime-Maple Forests in Lower Levels</li> <li>-Oak and Oak -Acidophilous Forests</li> <li>-Sessile Oak Forests</li> <li>-Acidophilous Pine Forests on Blowed Sand</li> <li>-Xeric Oak Forests and Rocky Steppes, Panonic-Pontic Oak Forests</li> </ul> | <ul style="list-style-type: none"> <li>-Flowering-Beech and Fir Forests</li> <li>-Acidophilous Beech Sub mountain Forests</li> <li>-Acidophilous Beech Mountain Forests</li> <li>-Mixed Sycamore Mountain Forests</li> <li>-Calciphillous Beech-Fir Forests</li> <li>-Spruce and Spruce-Fir Forests</li> <li>-Spruce Gleyed Forests</li> <li>-Spruce Tall-Herb Forests</li> <li>-Subalpine Mountain Pine and Grass Communities</li> <li>-Alpine Communities</li> <li>-Raised and Transition Mires</li> </ul> |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

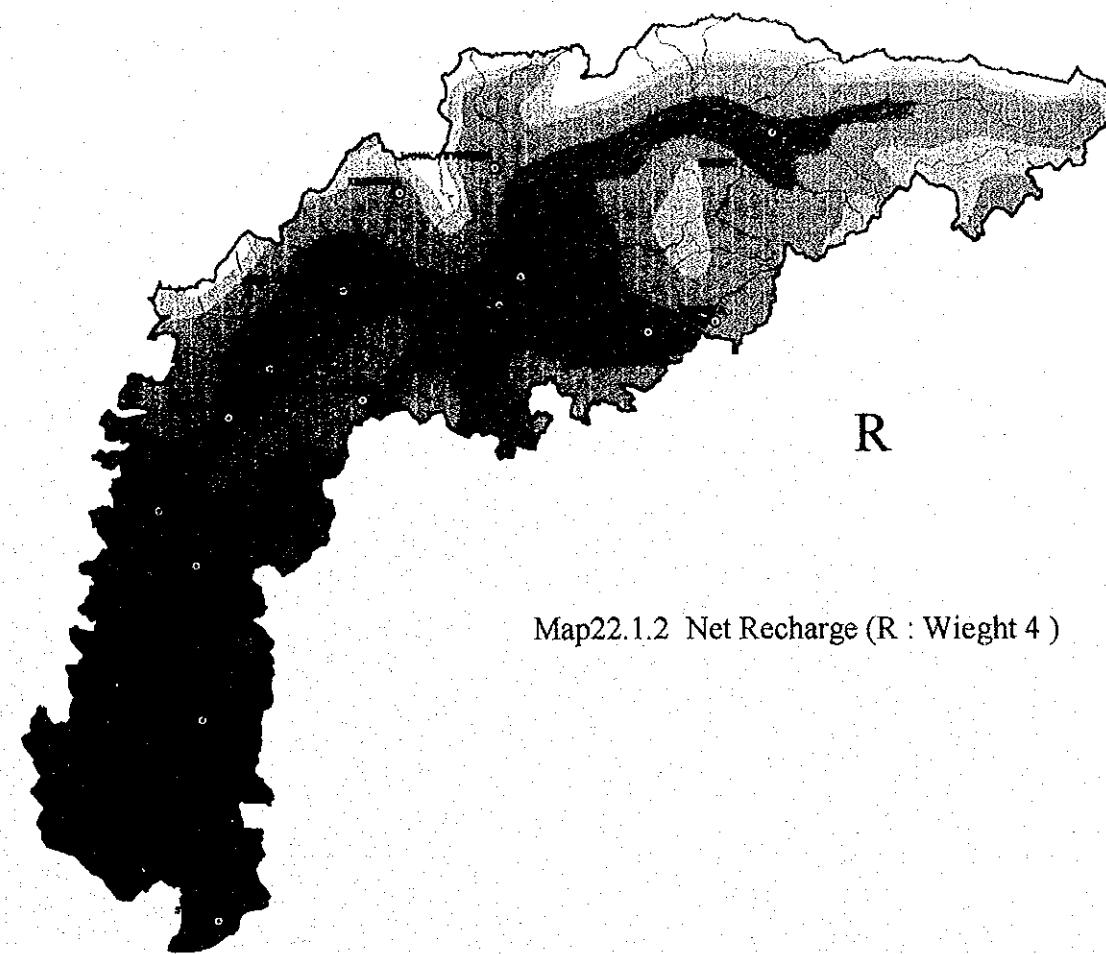
Map 21.2.1 Natural Forest Vegetation of the Study Area



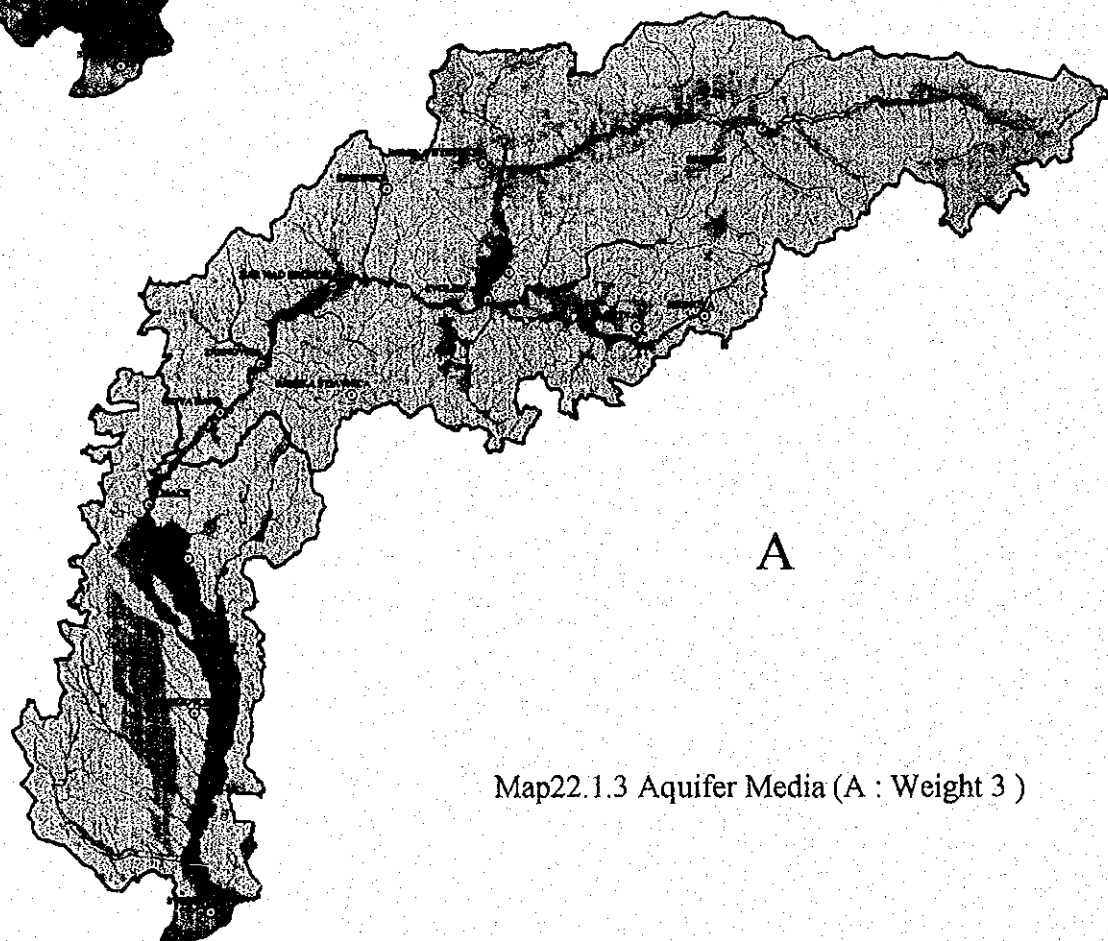
Map 21.2.1 Natural Forest Vegetation of the Study Area



Map22.1.1 Depth to the Groundwater Table (D : Weight 3)

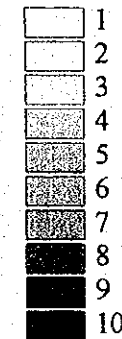


Map22.1.2 Net Recharge (R : Weight 4)



Map22.1.3 Aquifer Media (A : Weight 3)

Rate 1-10



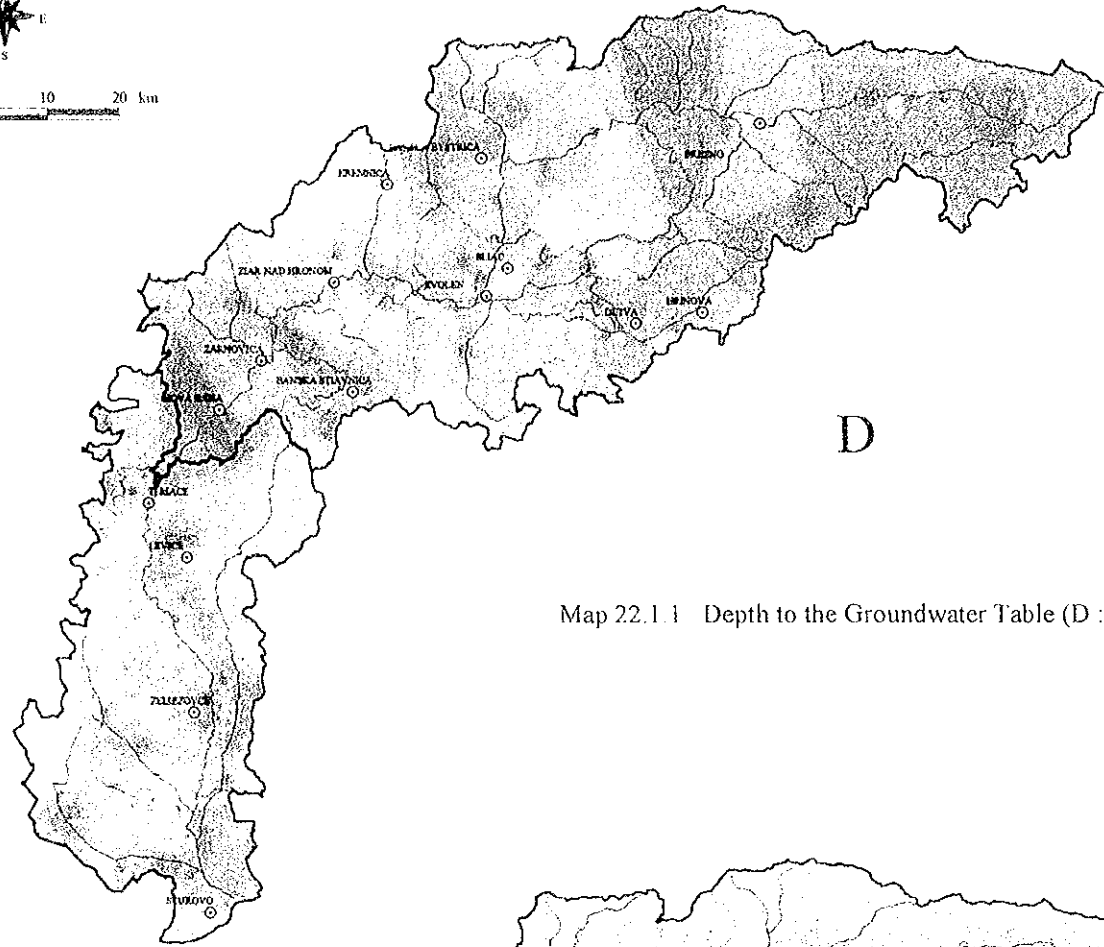
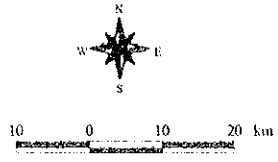
Low

Vulnerability

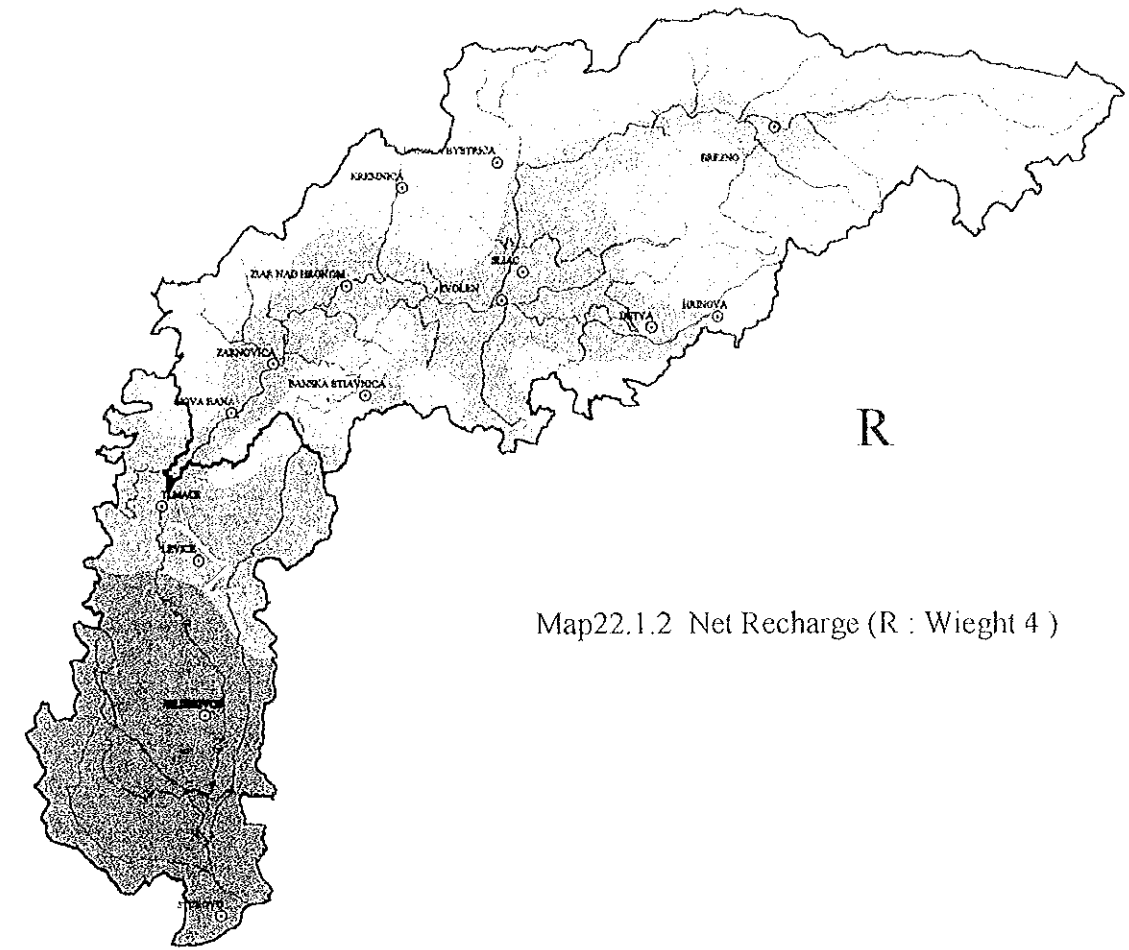
High

GIS DATABASE 22.1 Vulnerability of Groundwater Pollution by DRASTIC Method

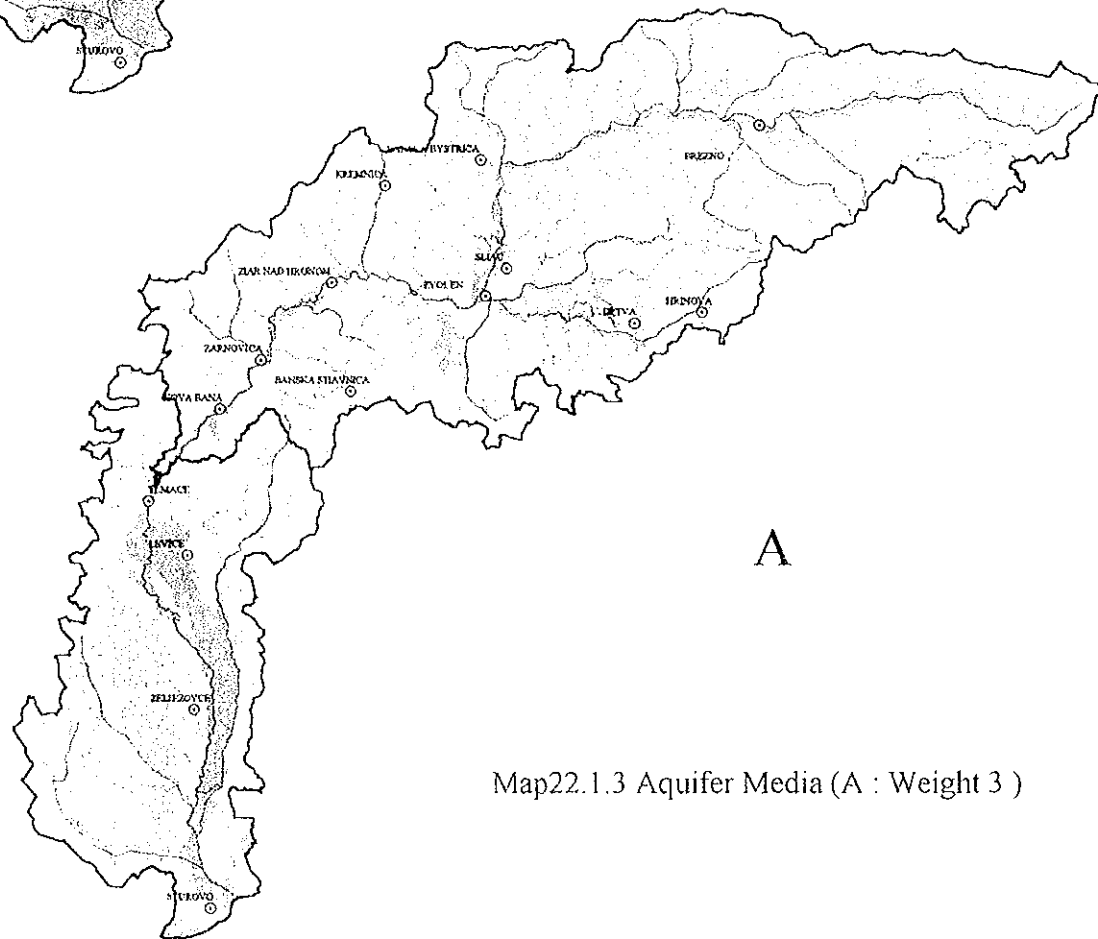
Data Source : GSSR and so on, Map prepared by JICA Study Team



Map 22.1.1 Depth to the Groundwater Table (D : Weight 3)

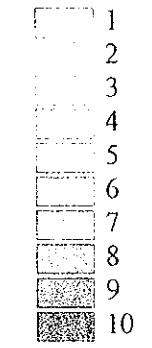


Map 22.1.2 Net Recharge (R : Weight 4)



Map 22.1.3 Aquifer Media (A : Weight 3)

Rate 1-10



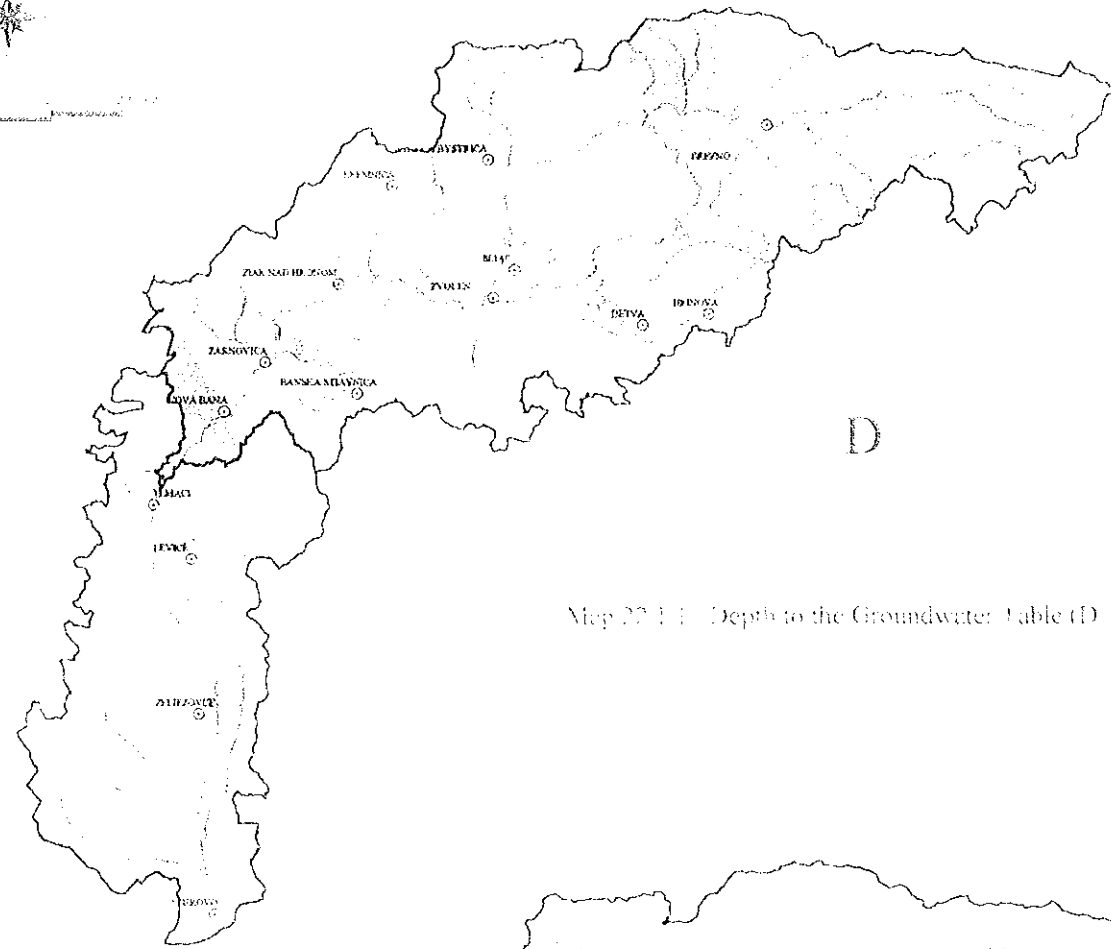
Low

Vulnerability

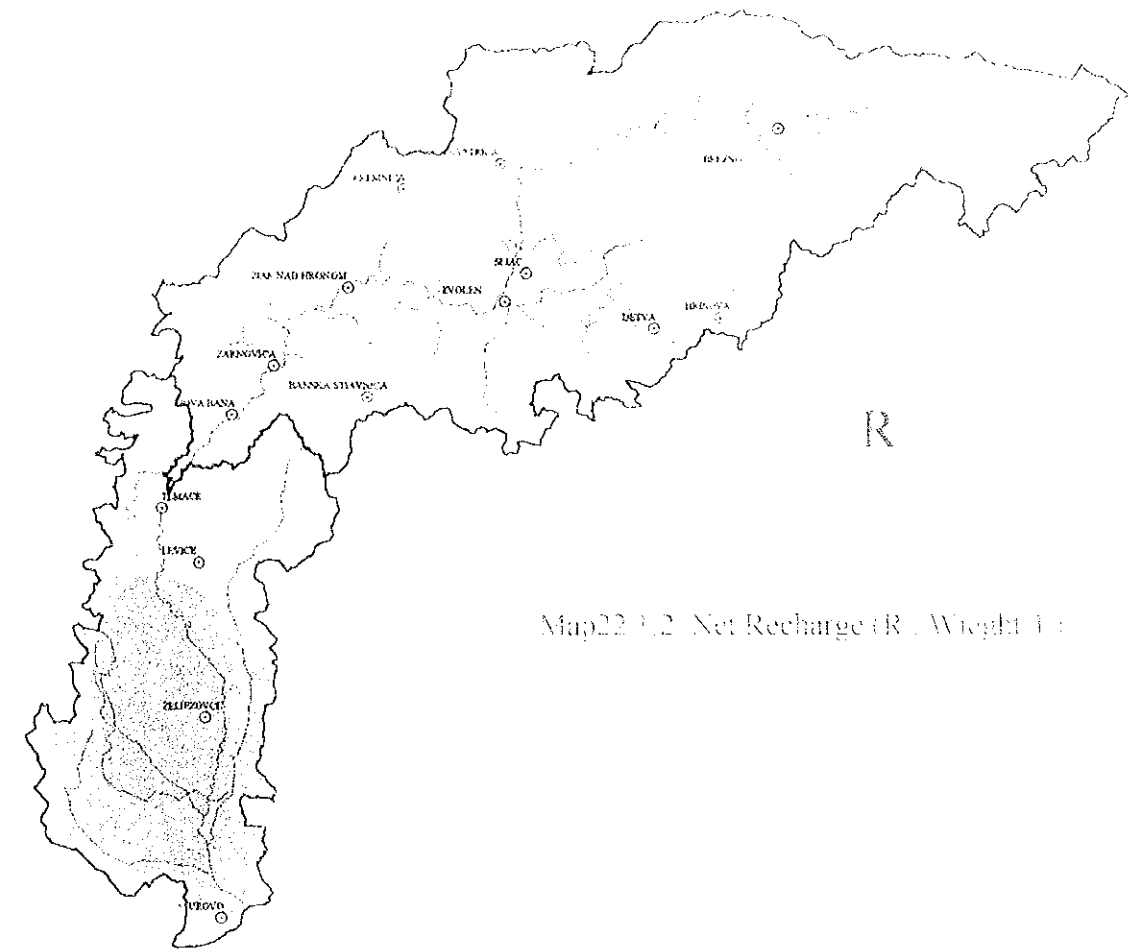
High

GIS DATABASE 22.1 Vulnerability of Groundwater Pollution by DRASTIC Method

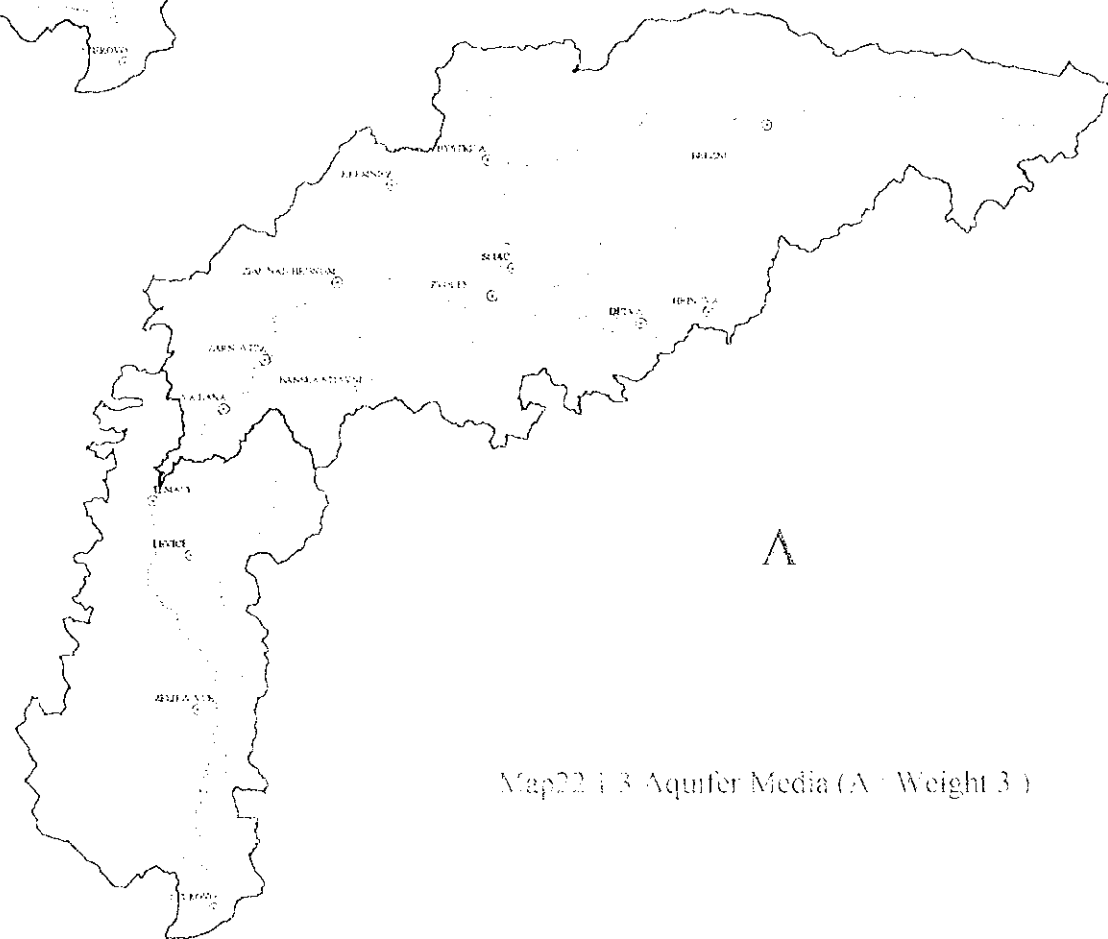
Data Source : GSSR and so on, Map prepared by JICA Study Team



Map 22.1.1 Depth to the Groundwater Table (D - Weight 3)



Map 22.1.2 Net Recharge (R - Weight 1)



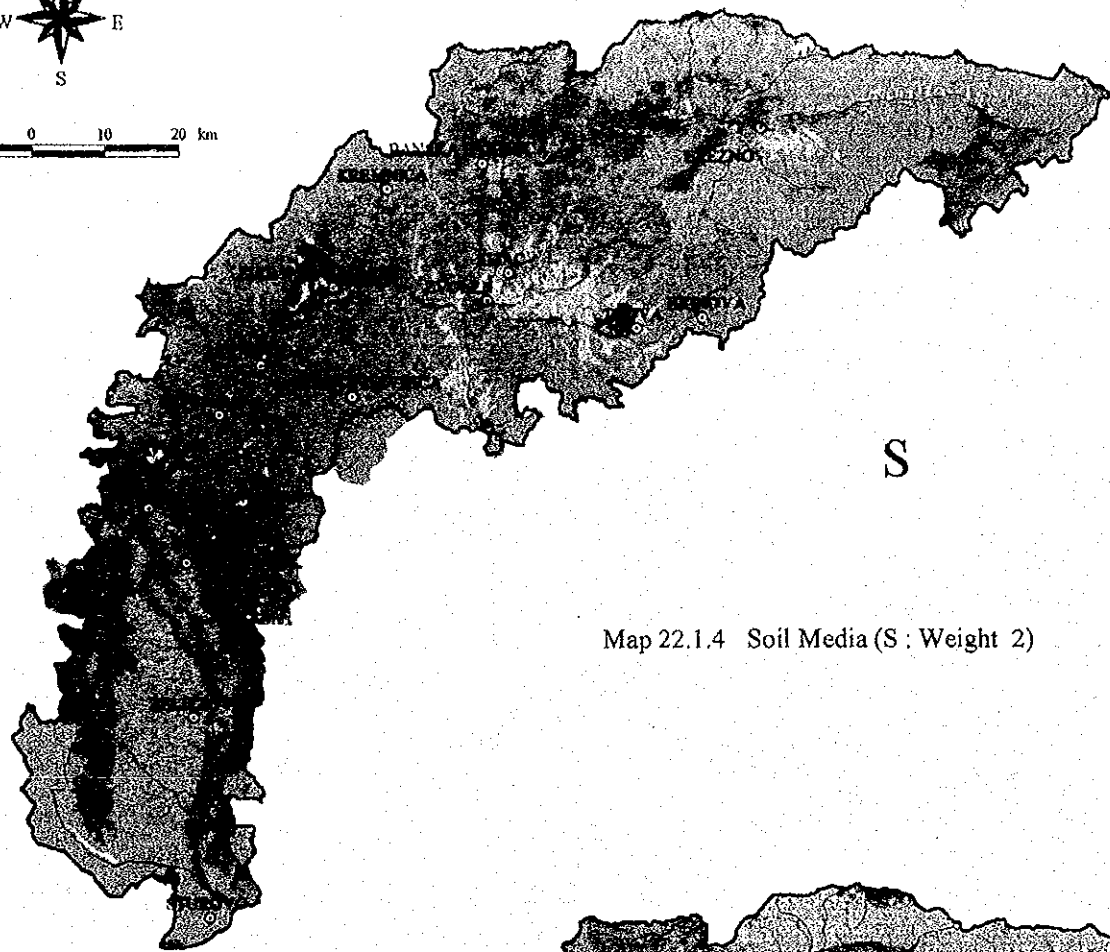
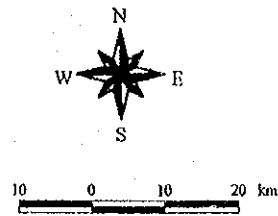
Map 22.1.3 Aquifer Media (A - Weight 3)

Rate 1-10	
1	Low
2	
3	
4	
5	Vulnerability
6	
7	
8	
9	
10	High

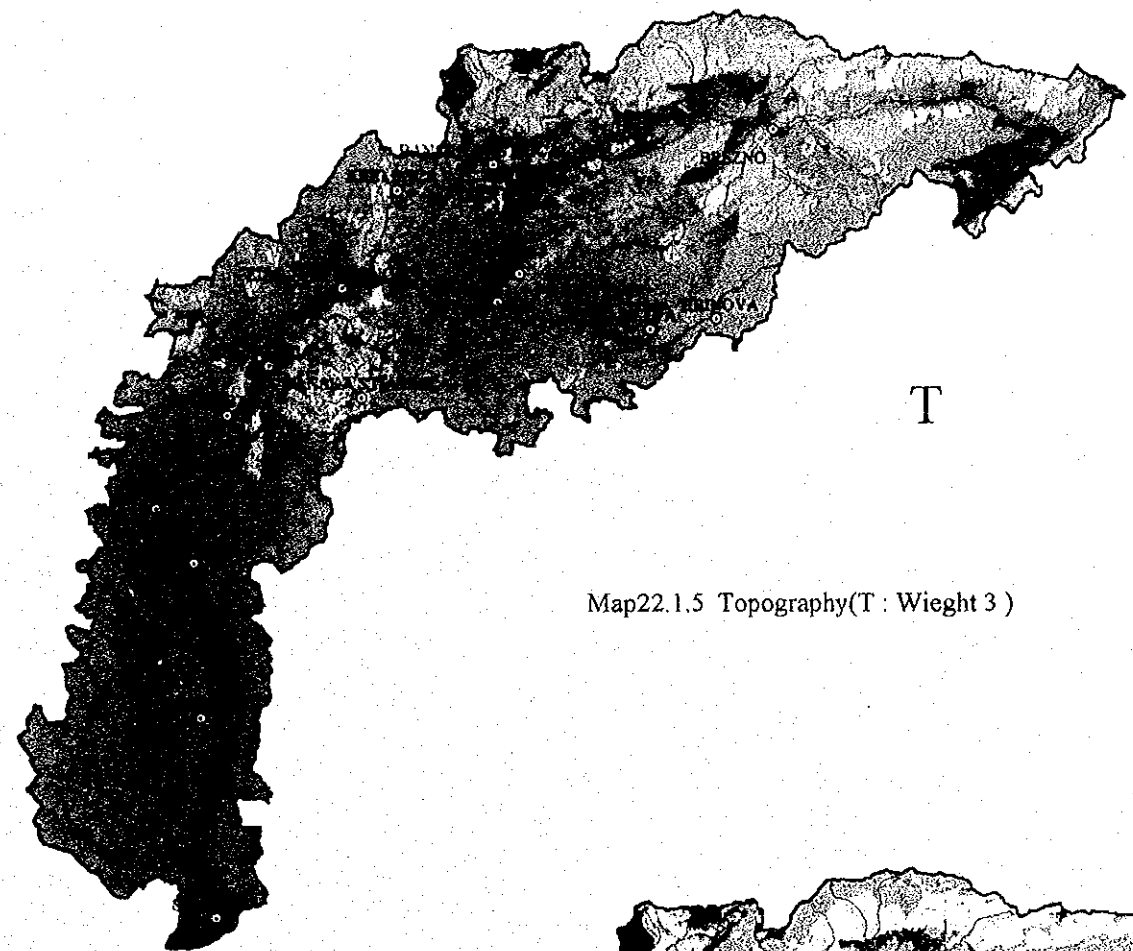
GIS DATABASE 22.1 Vulnerability of Groundwater Pollution by DRAS-IC Method

Data Source: GISSR and so on. Map prepared by ITOA Study Team

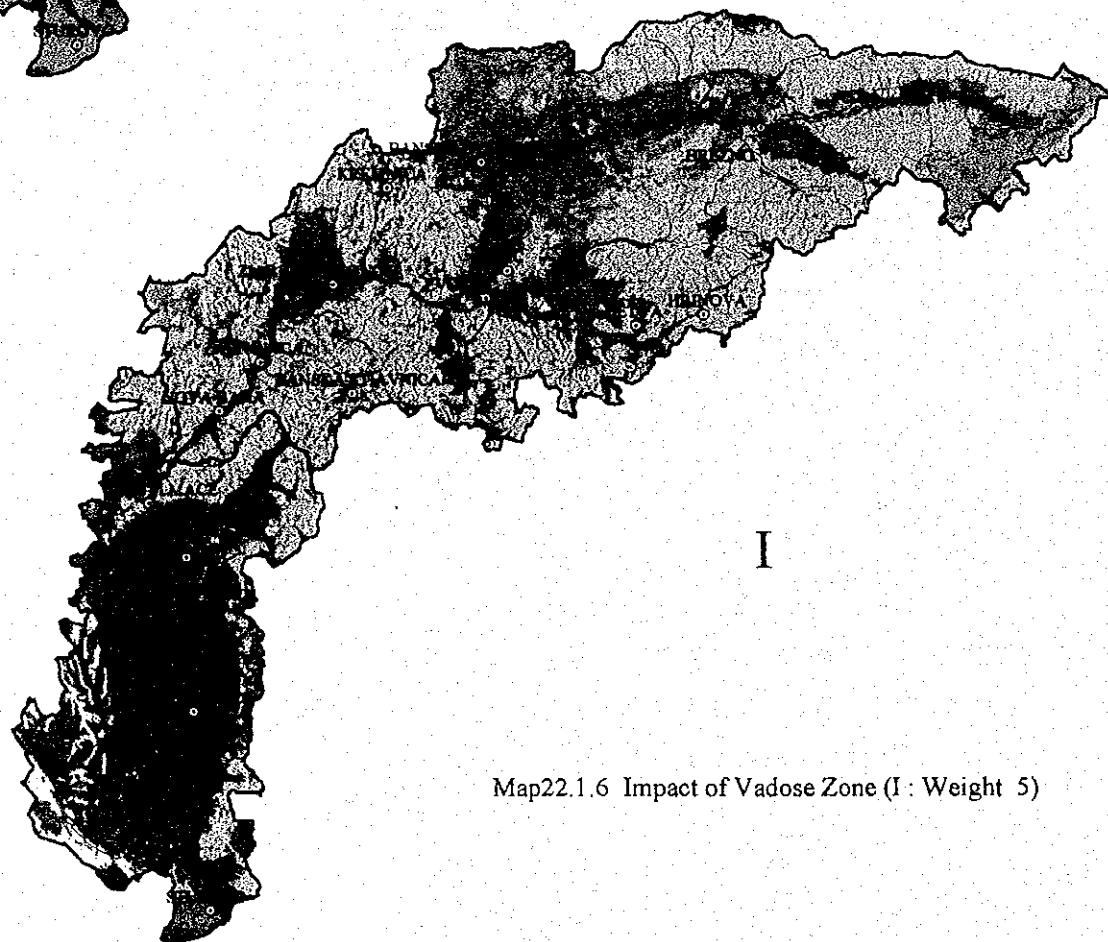




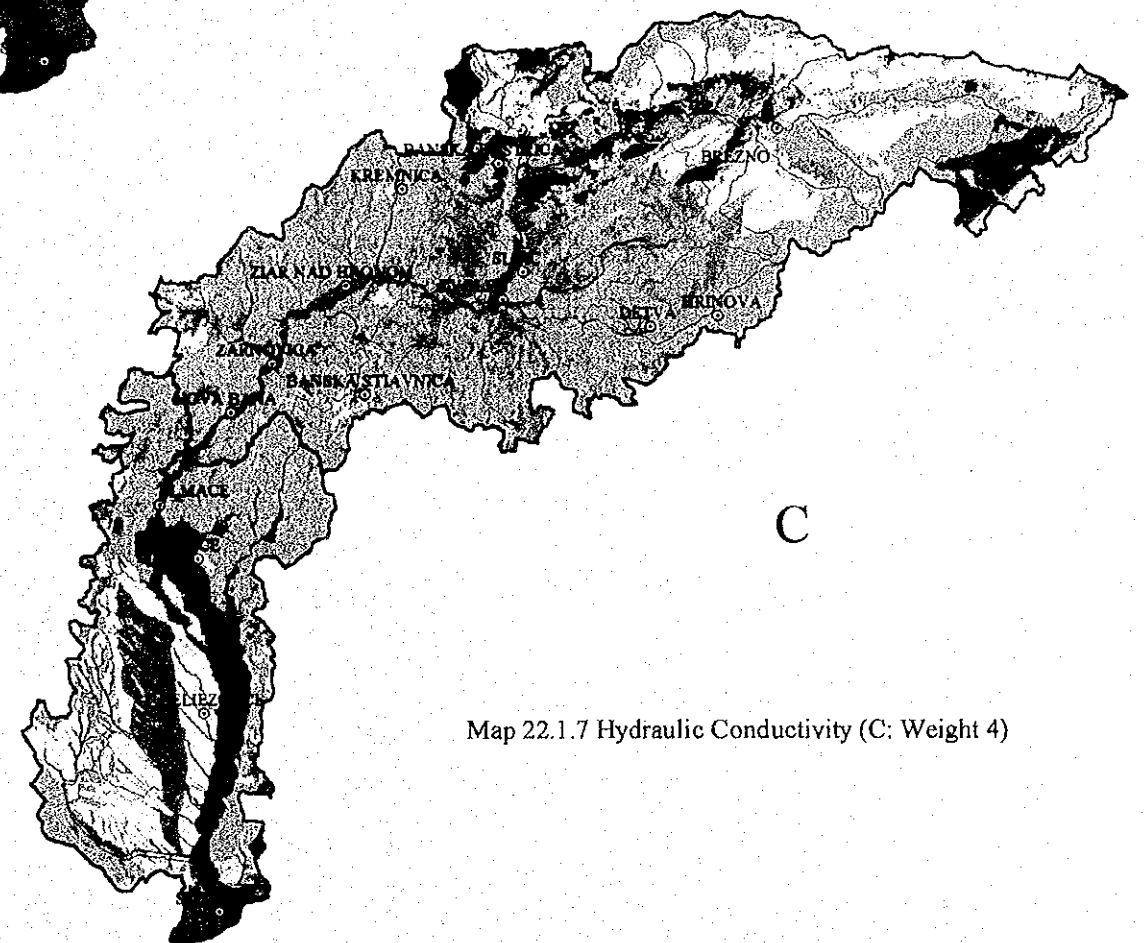
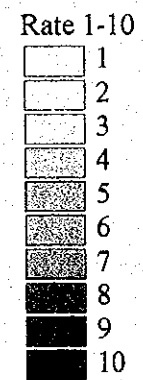
Map 22.1.4 Soil Media (S : Weight 2)



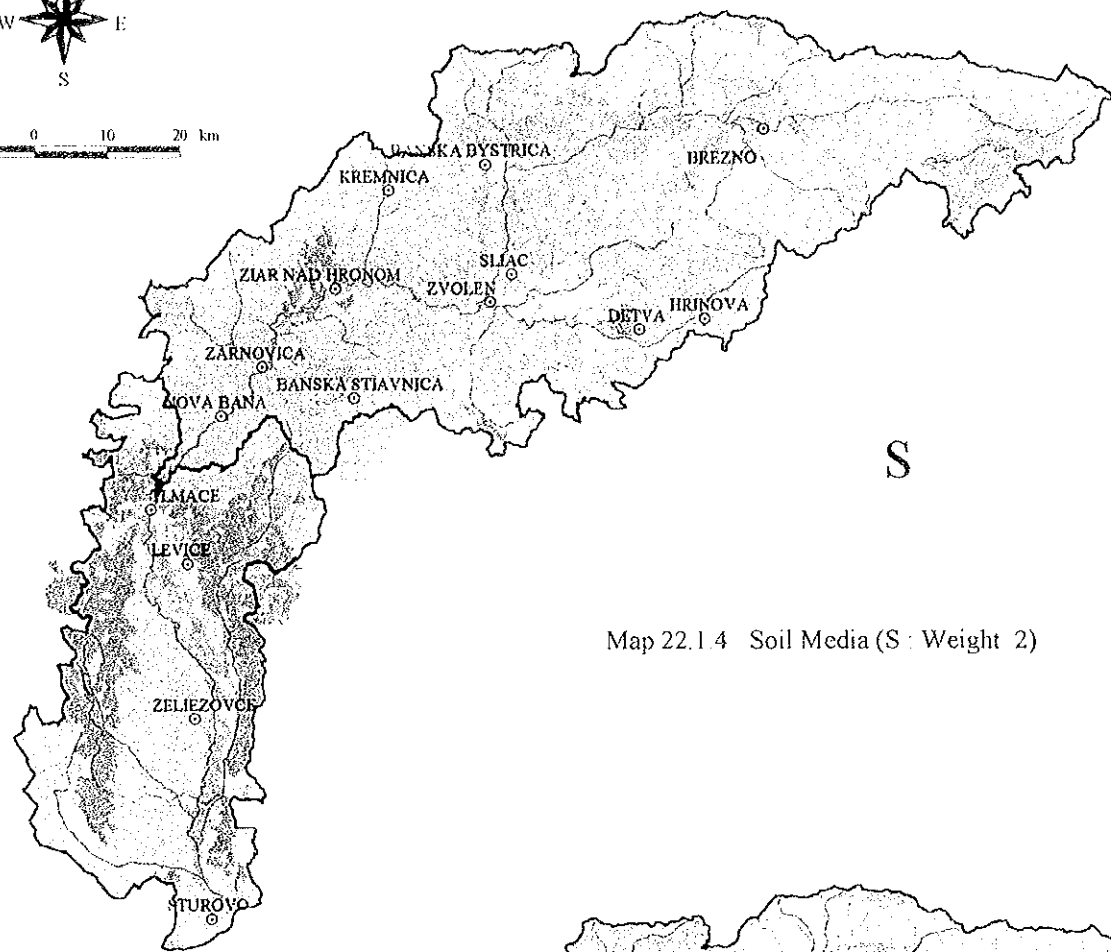
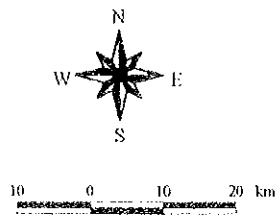
Map 22.1.5 Topography (T : Weight 3)



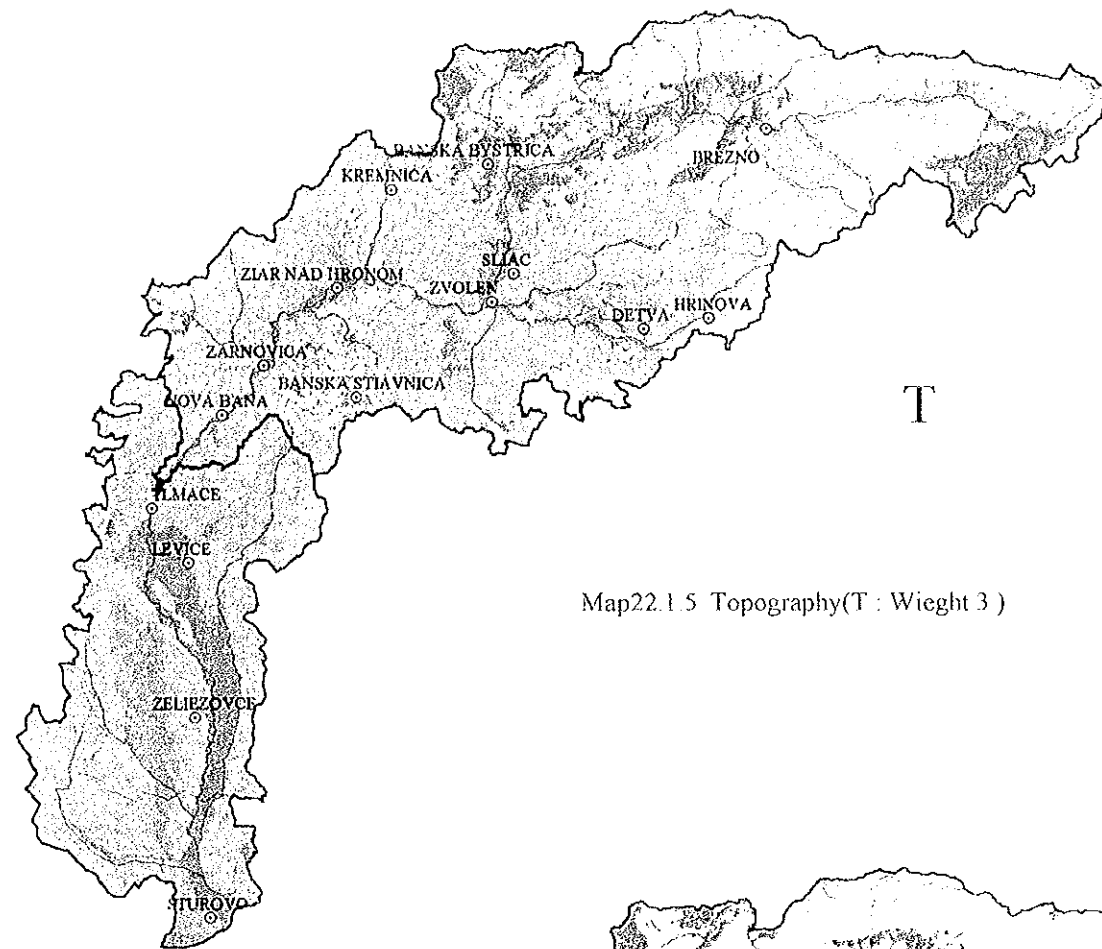
Map 22.1.6 Impact of Vadose Zone (I : Weight 5)



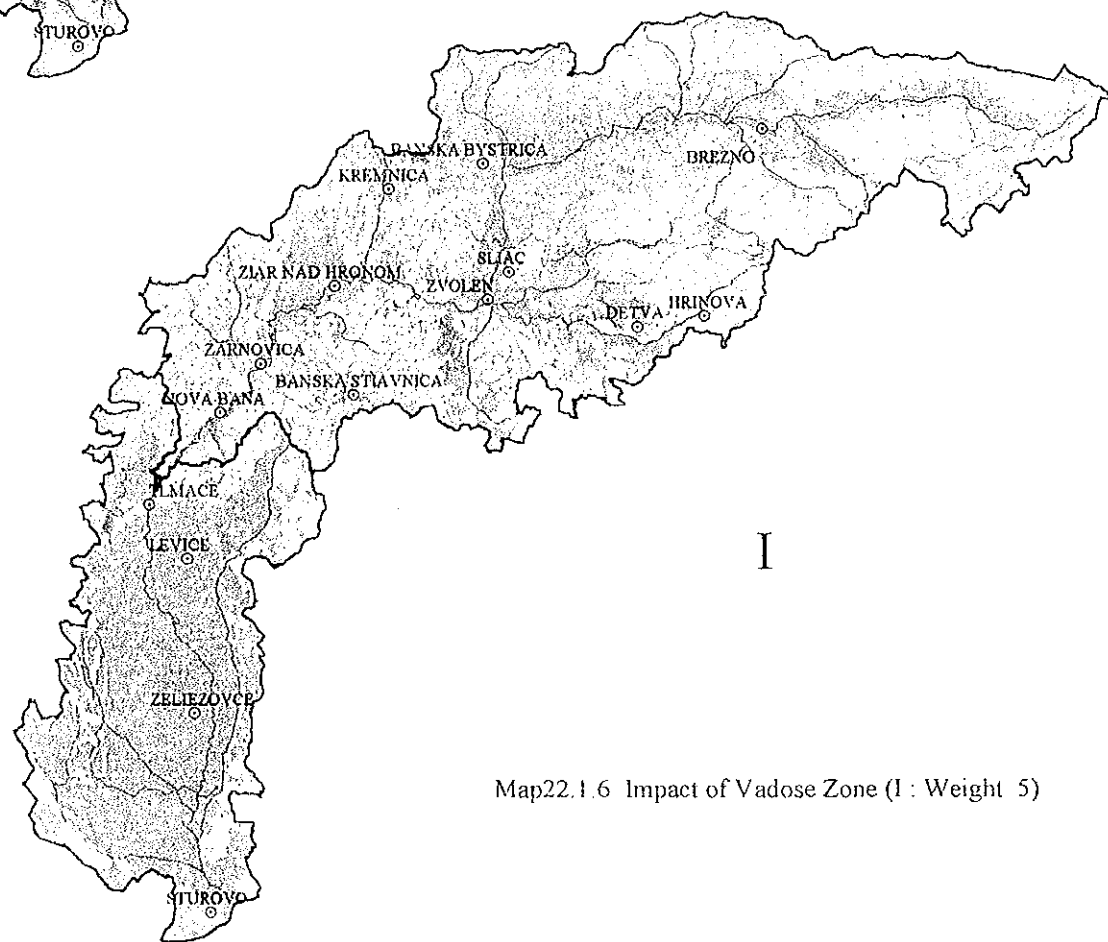
Map 22.1.7 Hydraulic Conductivity (C: Weight 4)



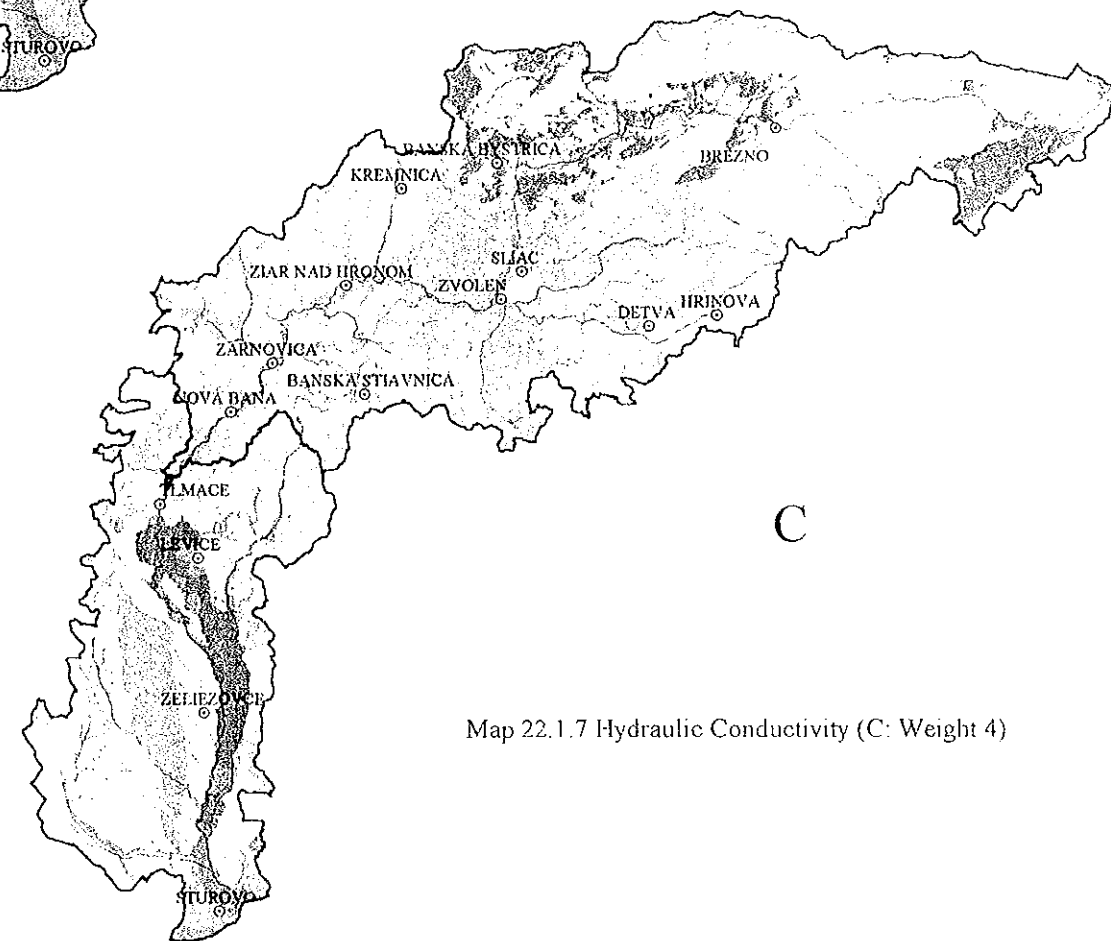
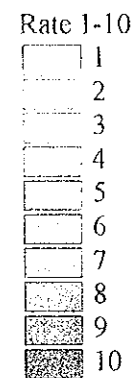
Map 22.1.4 Soil Media (S : Weight 2)



Map 22.1.5 Topography (T : Weight 3)

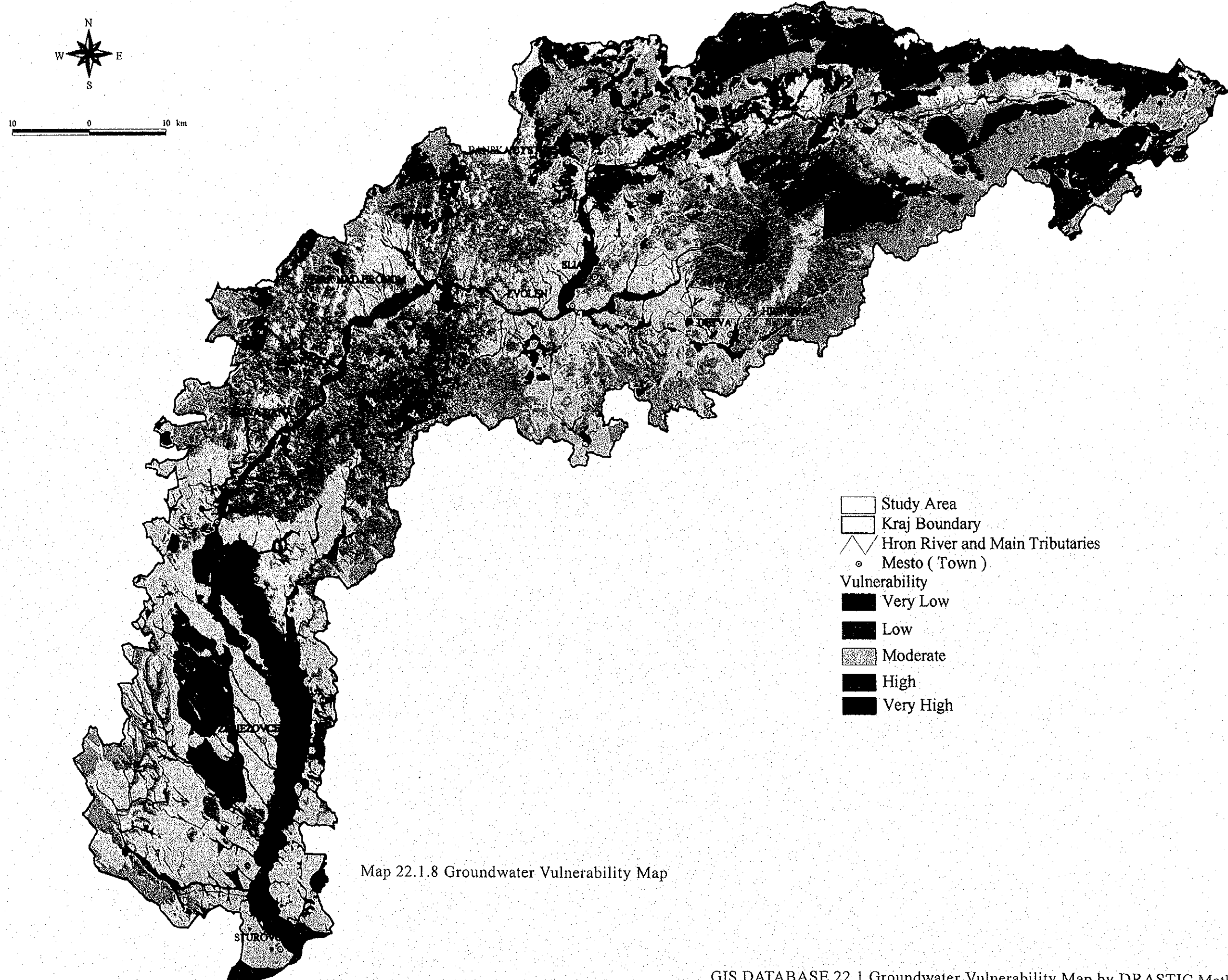


Map 22.1.6 Impact of Vadose Zone (I : Weight 5)



Map 22.1.7 Hydraulic Conductivity (C : Weight 4)



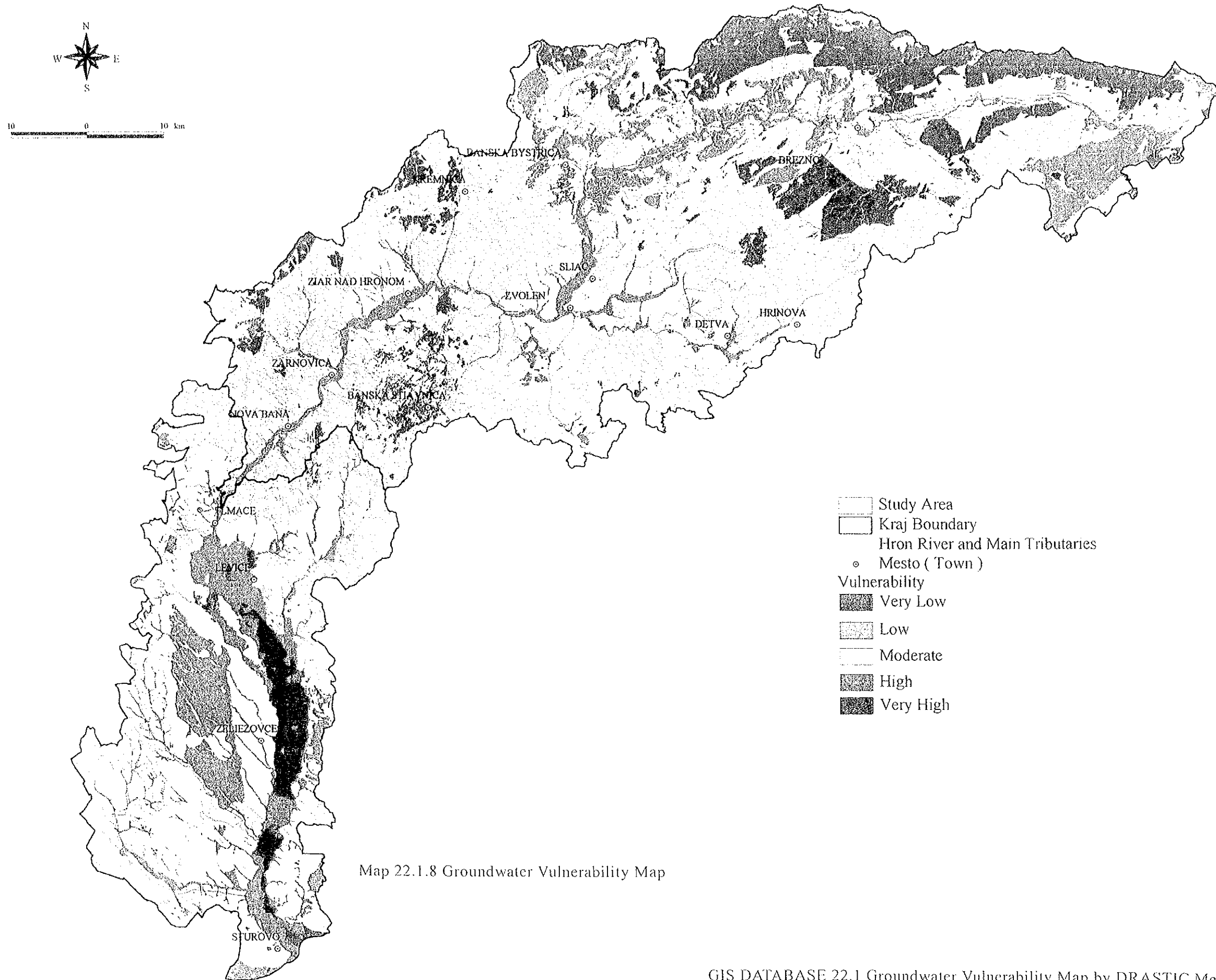


- Study Area
- Kraj Boundary
- △ Hron River and Main Tributaries
- Mesto ( Town )
- Vulnerability
- Very Low
- Low
- Moderate
- High
- Very High

Map 22.1.8 Groundwater Vulnerability Map

GIS DATABASE 22.1 Groundwater Vulnerability Map by DRASTIC Method

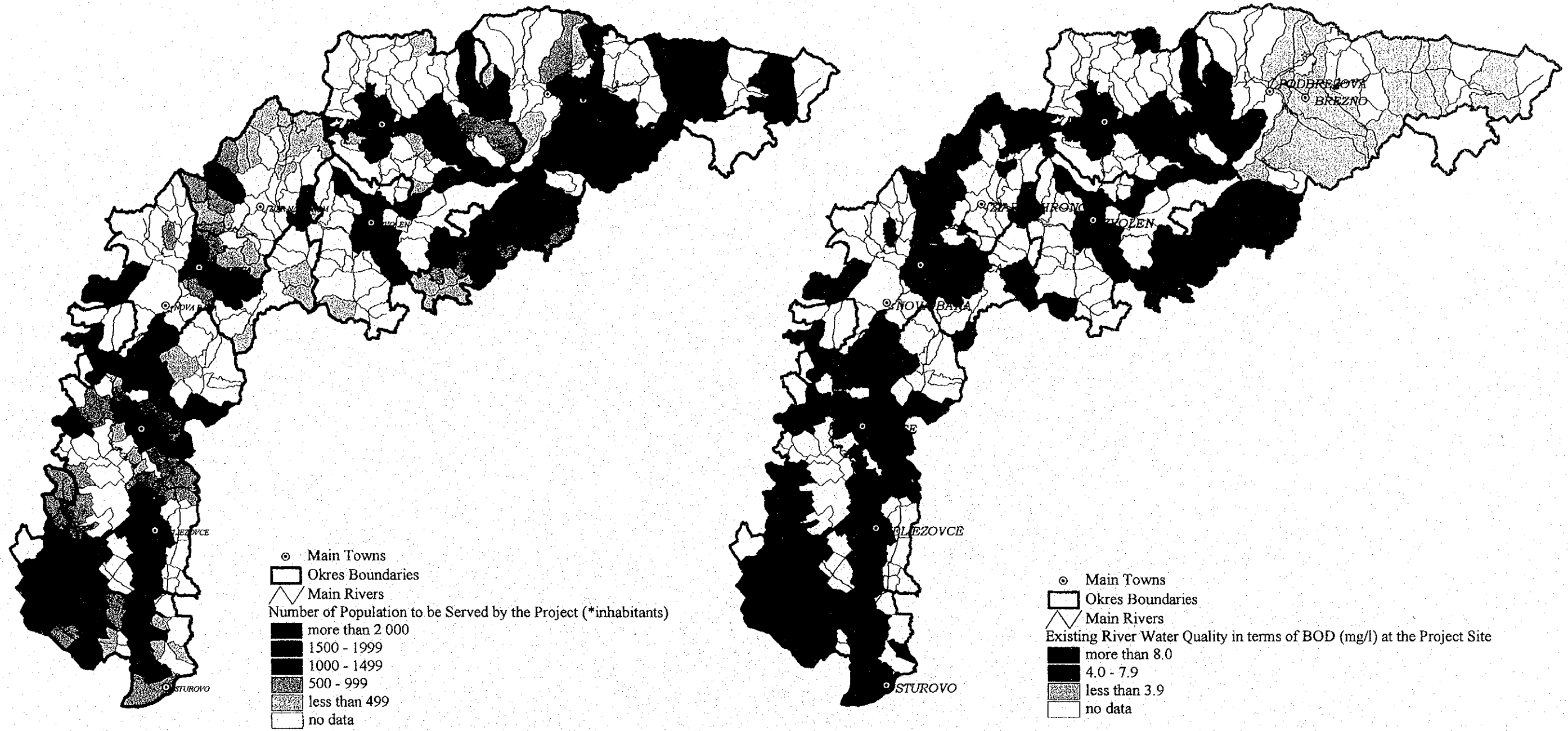
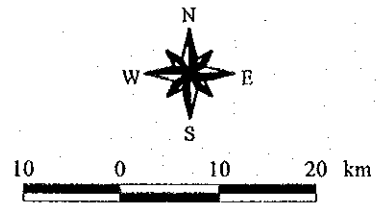
Data Source : GSSR and so on, Map prepared by JICA Study Team



Map 22.1.8 Groundwater Vulnerability Map

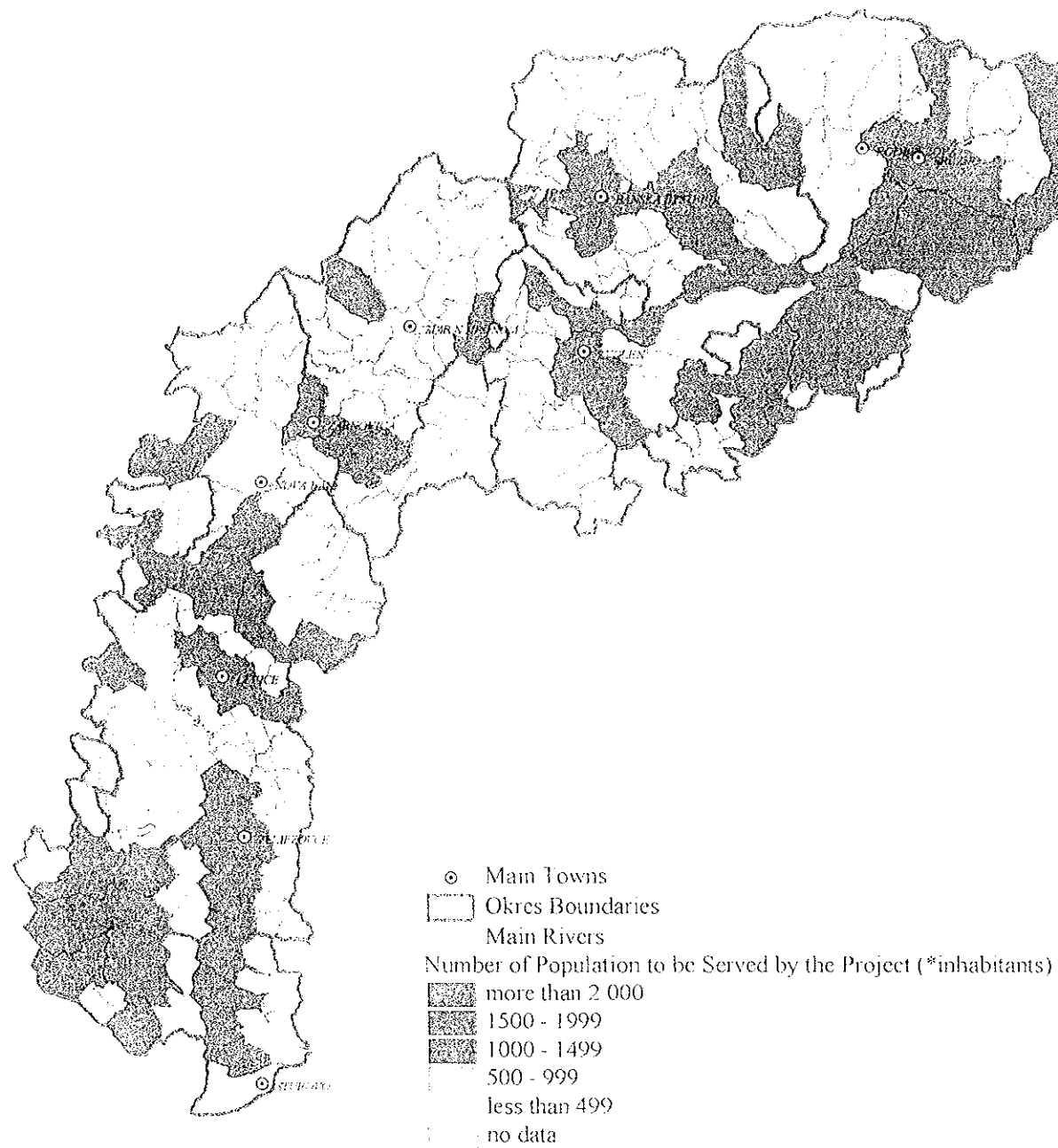
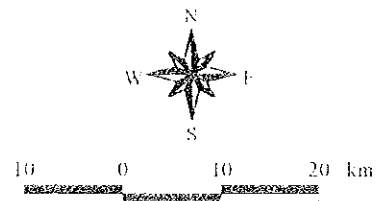
GIS DATABASE 22.1 Groundwater Vulnerability Map by DRASTIC Method

Data Source : GSSR and so on, Map prepared by JICA Study Team

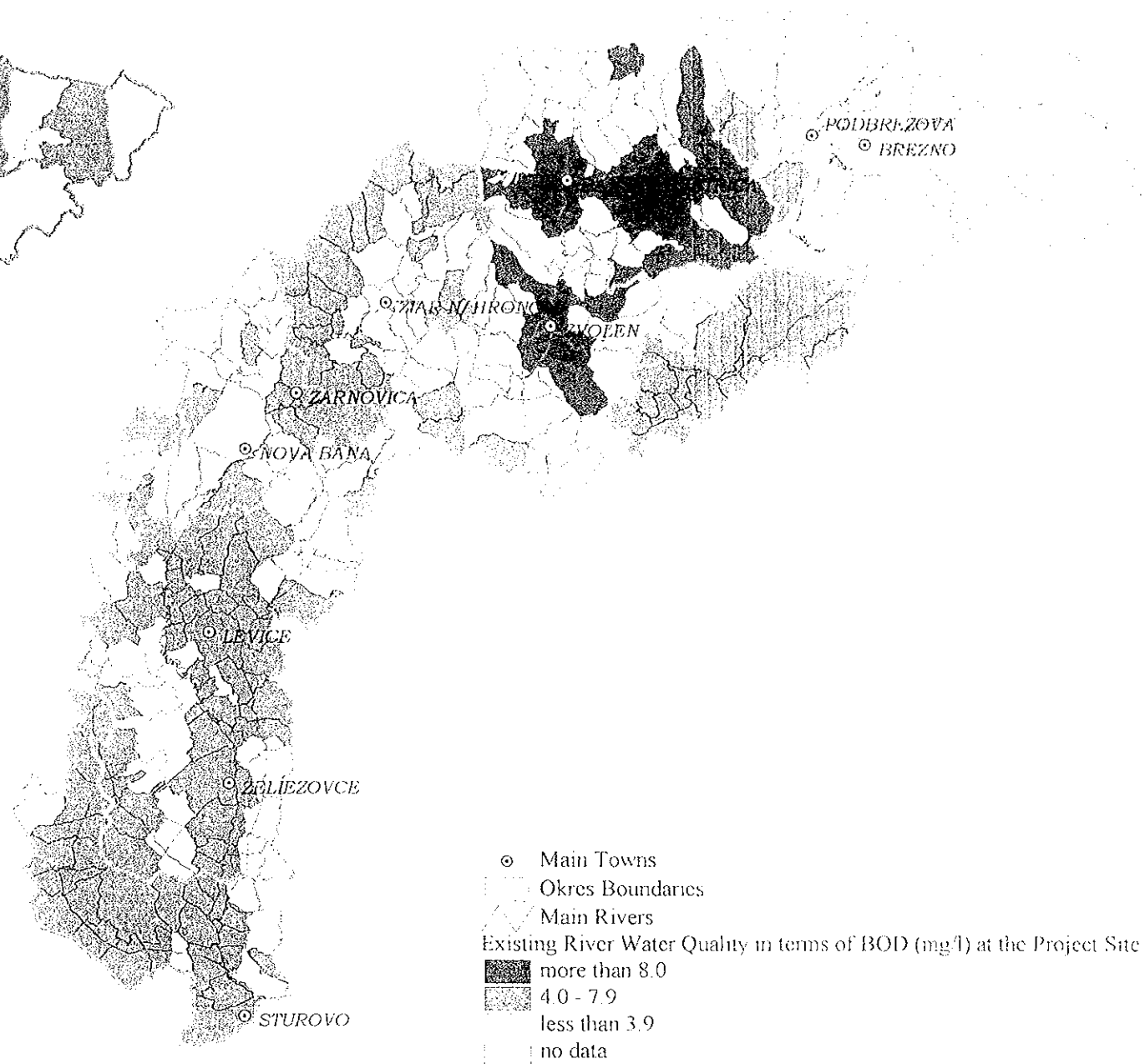


Map 23.1.1 Effects on Environment - 1; Reduction of Pollution Load

Map 23.1.2 Effects on Environment - 2: Improvement of Water Quality



Map 23.1.1 Effects on Environment - 1; Reduction of Pollution Load



Map 23.1.2 Effects on Environment - 2. Improvement of Water Quality



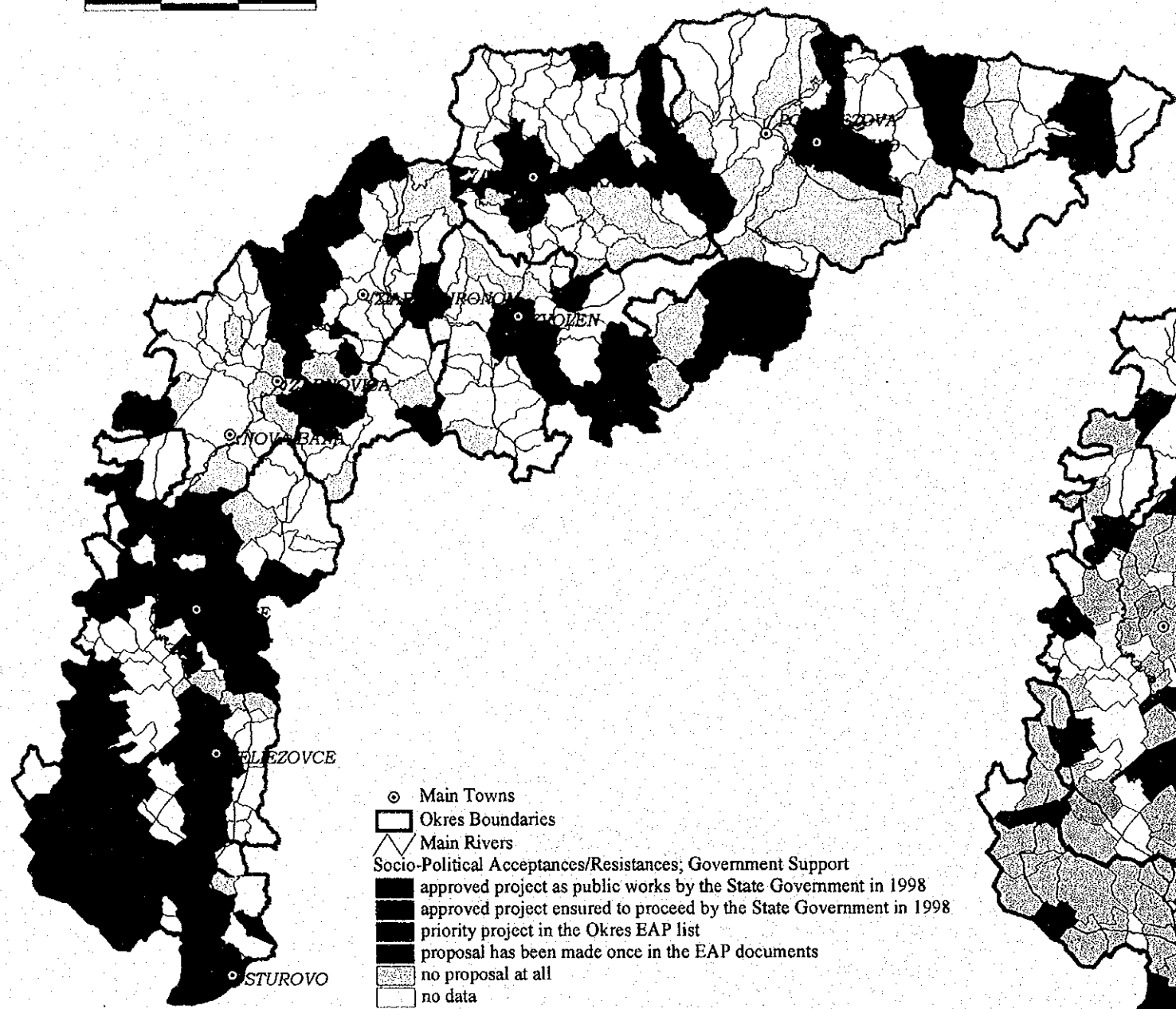
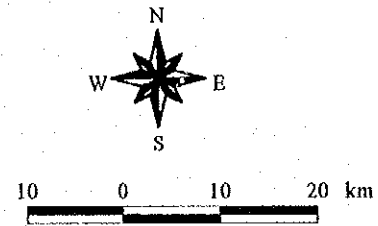
Map 23.1.1 Effects on Environment - 1. Reduction of Pollution Load



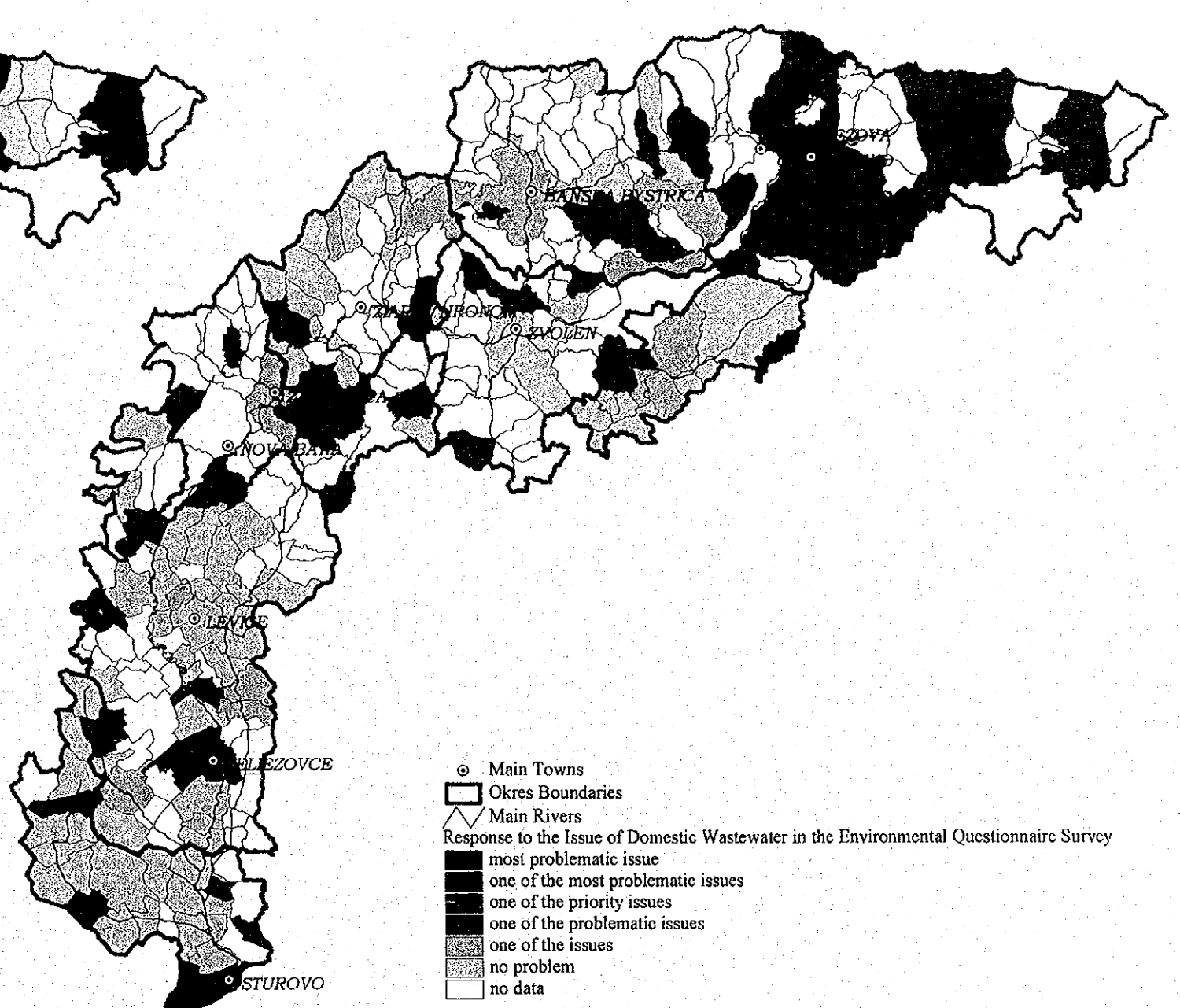
Map 23.1.1 Effects on Environment - 1. Reduction of Pollution Load



Map 23.1.2 Effects on Environment - 2. Improvement of Water Quality



- Main Towns
- Okres Boundaries
- ∇ Main Rivers
- Socio-Political Acceptances/Resistances; Government Support
- approved project as public works by the State Government in 1998
- approved project ensured to proceed by the State Government in 1998
- priority project in the Okres EAP list
- proposal has been made once in the EAP documents
- no proposal at all
- no data

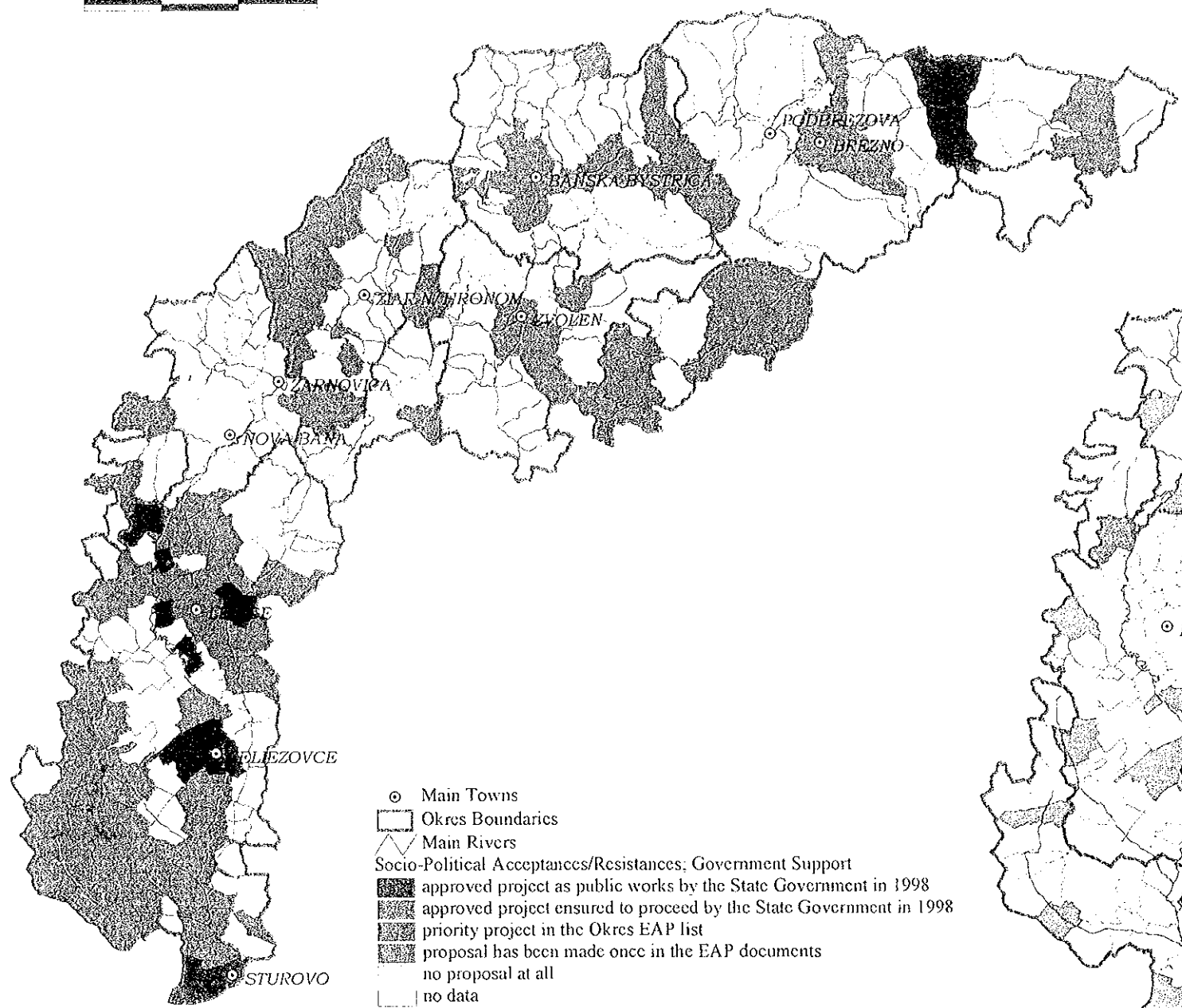
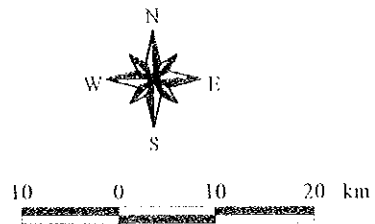


- Main Towns
- Okres Boundaries
- ∇ Main Rivers
- Response to the Issue of Domestic Wastewater in the Environmental Questionnaire Survey
- most problematic issue
- one of the most problematic issues
- one of the priority issues
- one of the problematic issues
- one of the issues
- no problem
- no data

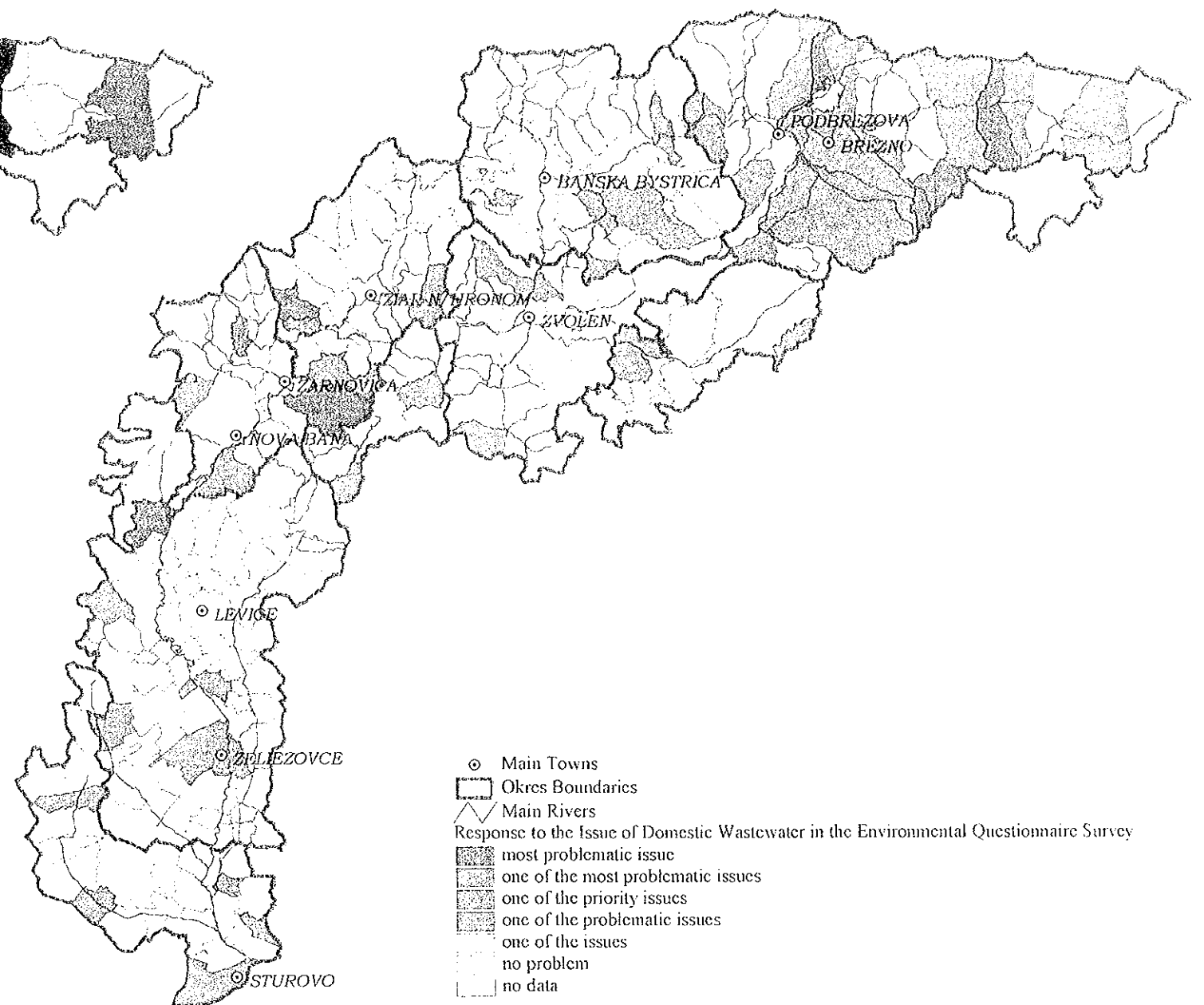
Map 23.1.3 Socio-Political Acceptance/Resistance: Government Support

Map 23.1.4 People's Willingness: Community Support

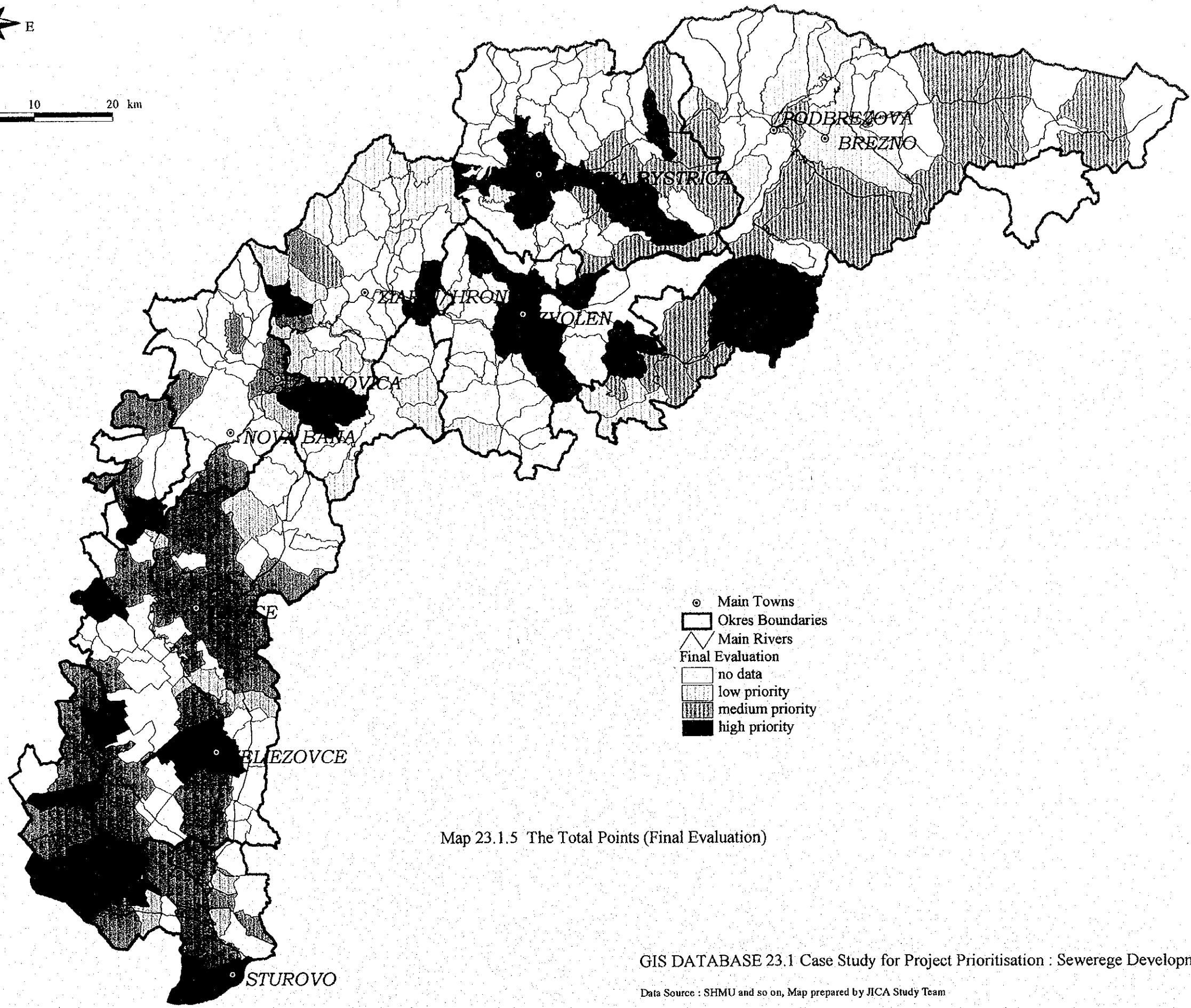
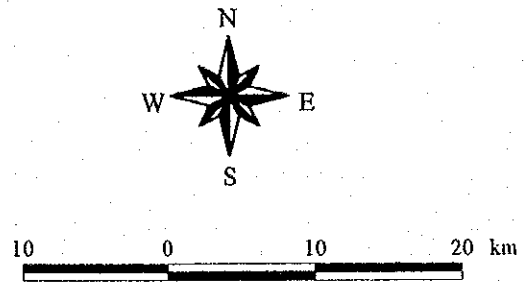




Map 23.1.3 Socio-Political Acceptance/Resistance: Government Support

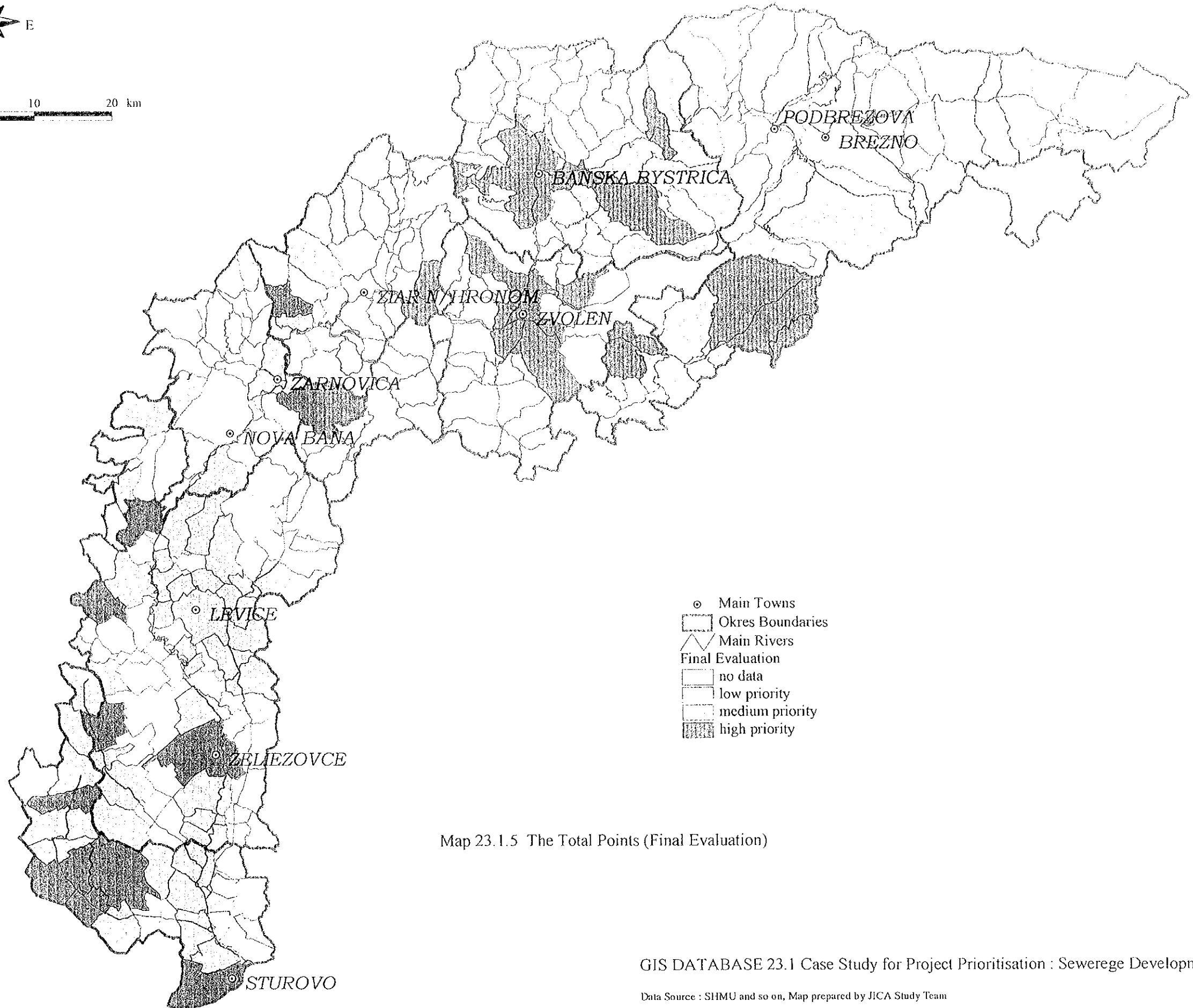
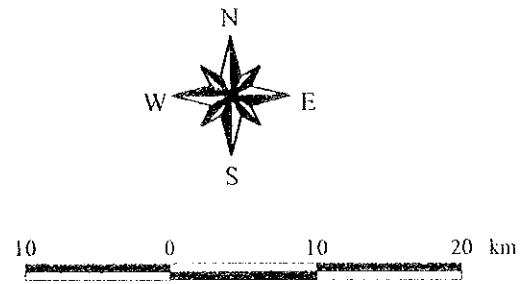


Map 23.1.4 People's Willingness: Community Support



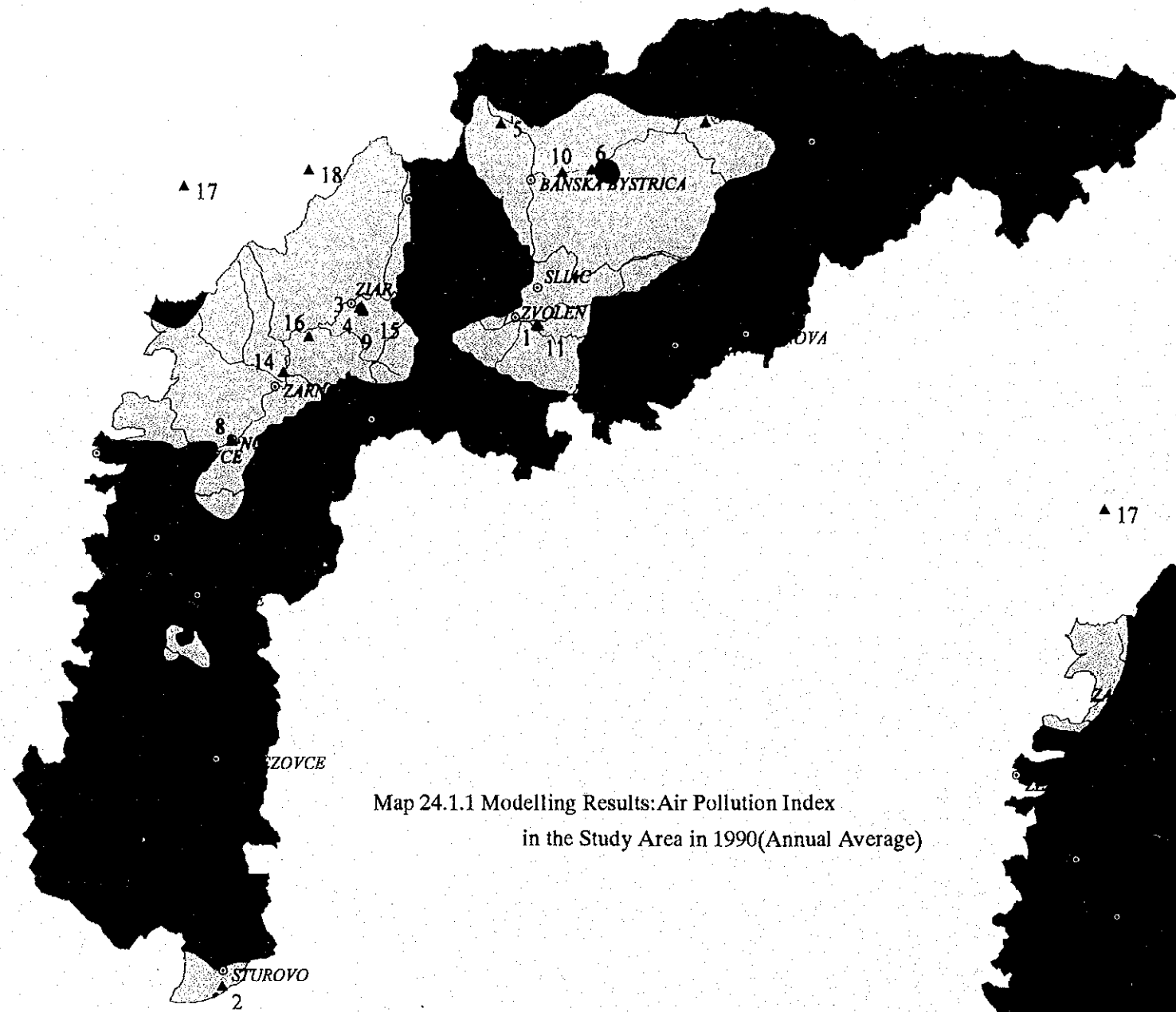
- Main Towns
- Okres Boundaries
- △ Main Rivers
- Final Evaluation
- no data
- ▨ low priority
- ▩ medium priority
- high priority

Map 23.1.5 The Total Points (Final Evaluation)

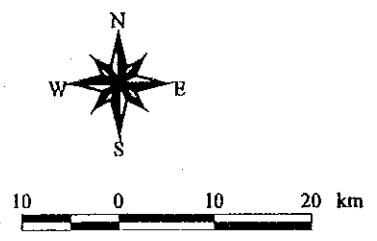


Map 23.1.5 The Total Points (Final Evaluation)

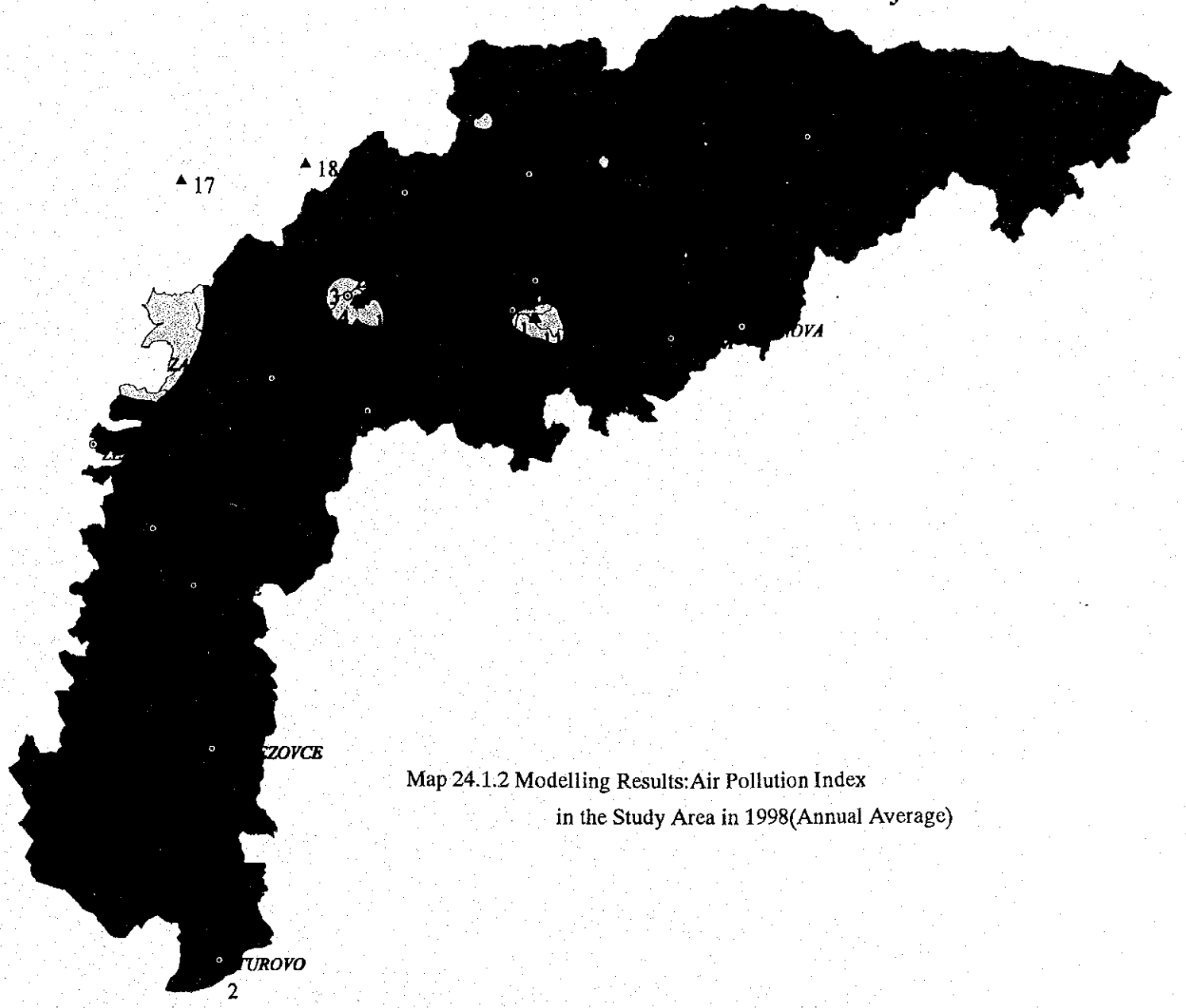
year: 1990



Map 24.1.1 Modelling Results: Air Pollution Index  
in the Study Area in 1990 (Annual Average)



year: 1998



Map 24.1.2 Modelling Results: Air Pollution Index  
in the Study Area in 1998 (Annual Average)

- ▲ Main Emission Sources
- Towns
- ~ Rivers
- ~ Okrremp.shp
- Air Pollution Index
- 0 - 0.4 (almost none)
- 0.5 - 0.9 (slight)
- 1.0 - 1.5 (moderate)
- 1.5 - 2.0 (quite)
- 2.0 < (high)

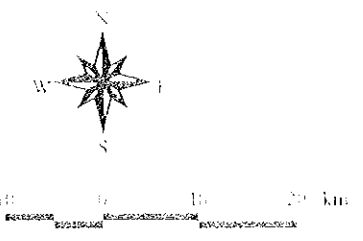
GIS DATABASE 24.1 Modelling Results: Air Pollution Index in the Study Area  
Data Source : SHMU, Map Prepared by JICA Study Team

year: 1990

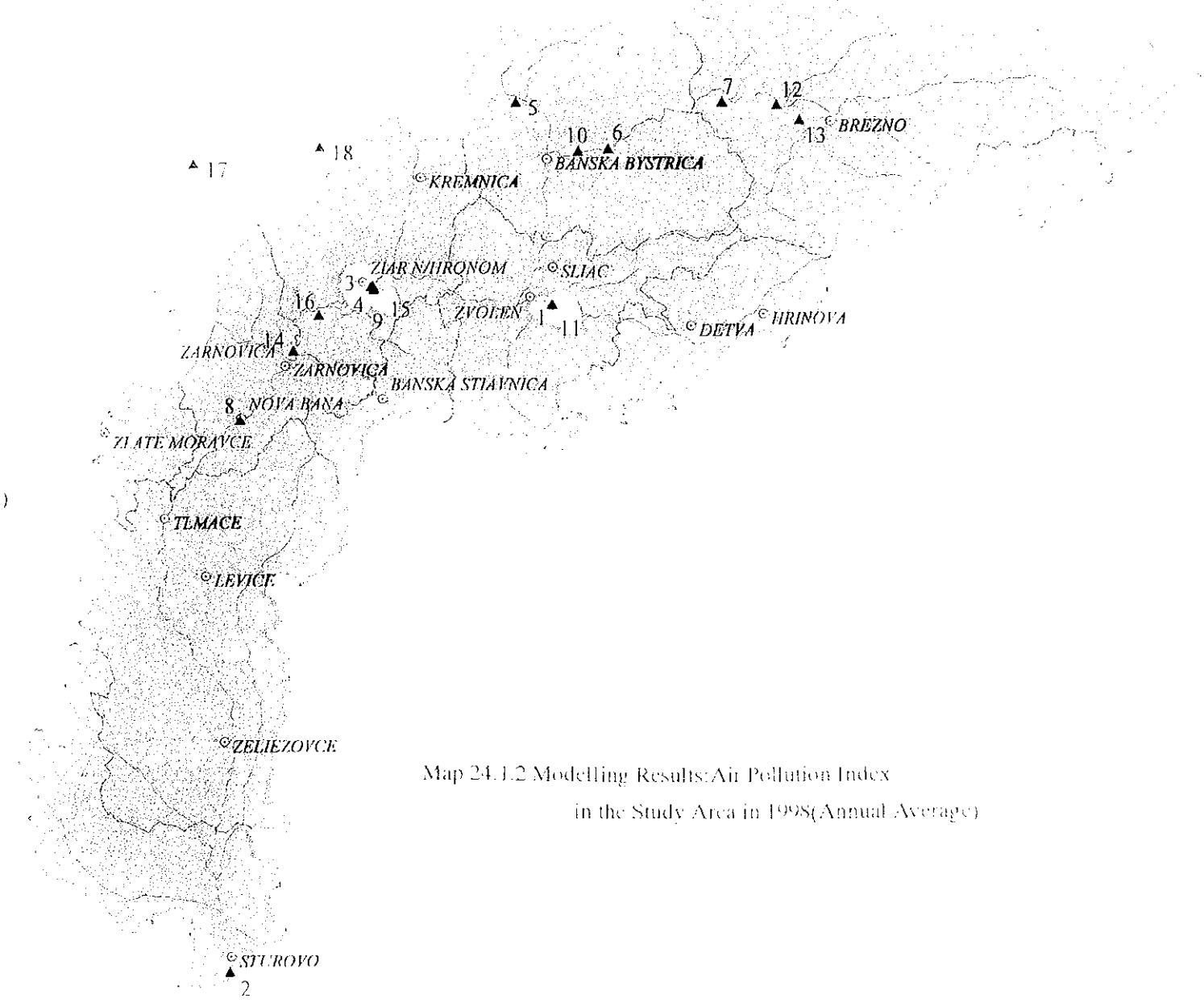


Map 24.1.1 Modelling Results: Air Pollution Index in the Study Area in 1990 (Annual Average)

- ▲ Main Emission Sources
- Towns
- Rivers
- Okremp ship
- Air Pollution Index
- 0 - 0.4 (almost none)
- 0.5 - 0.9 (slight)
- 1.0 - 1.5 (moderate)
- 1.5 - 2.0 (quite)
- 2.0+ (high)



year: 1998



Map 24.1.2 Modelling Results: Air Pollution Index in the Study Area in 1998 (Annual Average)

GIS DATABASE 24.1 Modelling Results: Air Pollution Index in the Study Area  
Data Source: SHMU. Map Prepared by JICA Study Team

