JAPAN INTERNATIONAL COOPERATION AGENCY SLOVAK ENVIRONMENTAL AGENCY THE SLOVAK REPUBLIC

## THE STUDY ON THE REGIONAL ENVIRONMENTAL MANAGEMENT PLAN FOR THE HRON RIVER BASIN IN THE SLOVAK REPUBLIC

Final Report
GIS MAPS

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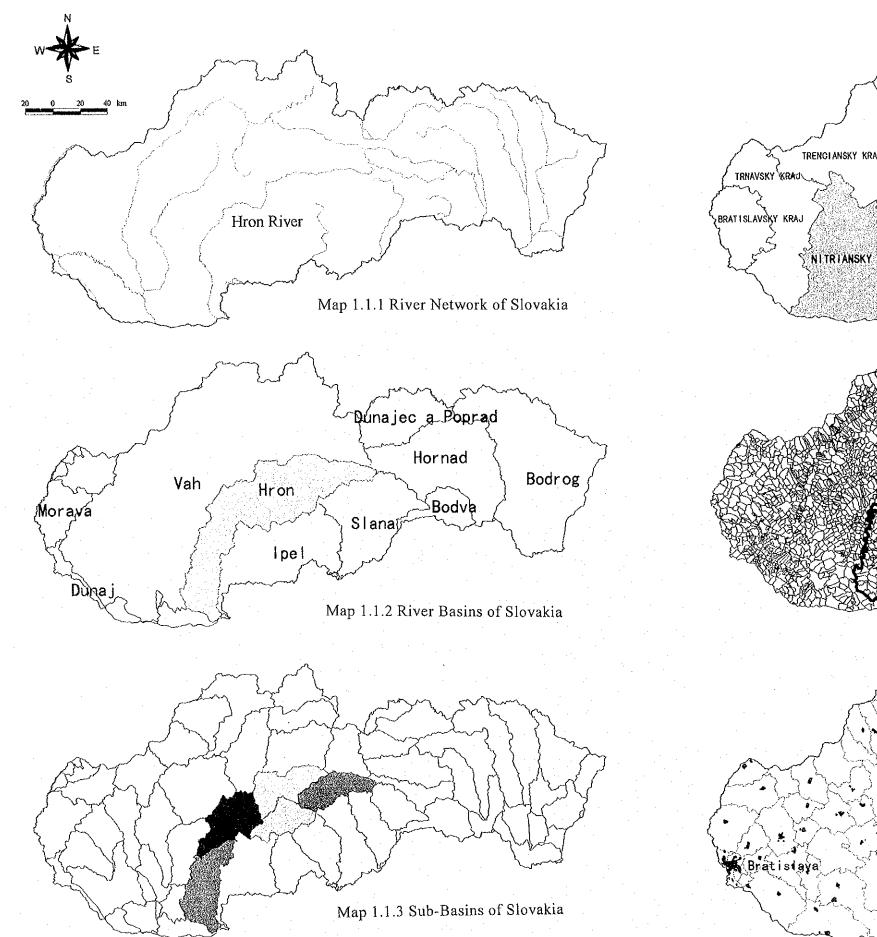


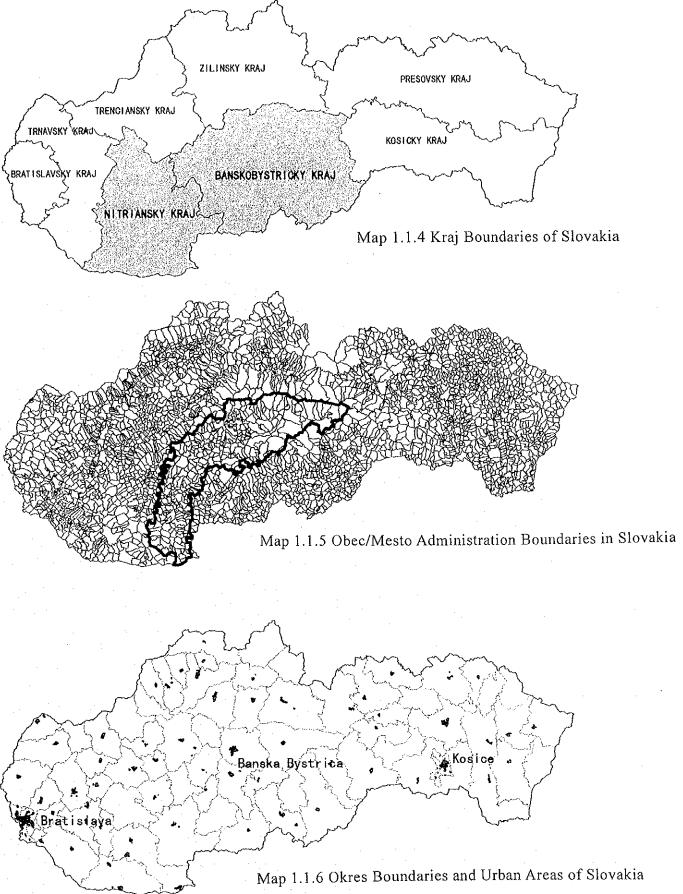
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7.7.1	4 Tectonics 5 Geochemical Atlas of Slovakia: Groundwater 6 Geochemical Atlas of Slovakia: Rocks 7 Stiavnica Region: rocks, river sediment, water 8 Old Environmental Load Database 9 Landfill Suitability Maps	GSSR/3 GSSR/4 GSSR/5 GSSR/6 GSSR/7 GSSR/8	7.3:1 7.4:1 7.5:1 7.5:2 7.5:3 7.5:4 7.5:5 7.5:8 7.5:7 7.5:8 7.5:9 7.5:10 7.5:11 7.5:12 7.5:14 7.5:15 7.5:16 7.5:17 7.5:18 7.5:19 7.5:19 7.5:20 7.6:1	Tectonics Groundwater Pollution Evaluation Map (Al) Groundwater Pollution Evaluation Map (As) Groundwater Pollution Evaluation Map (Ca) Groundwater Pollution Evaluation Map (Cd) Groundwater Pollution Evaluation Map (Cd) Groundwater Pollution Evaluation Map (Cu) Groundwater Pollution Evaluation Map (F) Groundwater Pollution Evaluation Map (F) Groundwater Pollution Evaluation Map (Fe) Groundwater Pollution Evaluation Map (Mg) Groundwater Pollution Evaluation Map (Mg) Groundwater Pollution Evaluation Map (Mg) Groundwater Pollution Evaluation Map (Mn) Groundwater Pollution Evaluation Map (NO3) Groundwater Pollution Evaluation Map (NO3) Groundwater Pollution Evaluation Map (Pb) Groundwater Pollution Evaluation Map (Pb) Groundwater Pollution Evaluation Map (Se) Groundwater Pollution Evaluation Map (So) Location Map of Groundwater Sampling Points (Geochemical Atlas of SK) Location Map of Rock Sampling Points (Geochemical Atlas of SK) Groundwater Pollution Maps in Stiavinica Old Environmental Loads in the Study Area Llcensed Landfill Sites in the Study Area	o dai siba Januari
7.7.1 7.1 7.7.7 7.7.7 8.0	Sechemical Atlas of Slovakia: Groundwater  Geochemical Atlas of Slovakia: Rocks  Stiavnica Region: rocks, river sediment, water  Old Environmental Load Database  Landfill Sutlability Maps  Groundwater Quality Data	GSSR-3 GSSR-4 GSSR-5 GSSR-6 GSSR-7 GSSR-8 GSSR-9 SHMUBA	7.3:1 7.4:1 7.5:1 7.5:3 7.5:4 7.5:5 7.5:6 7.5:7 7.5:8 7.5:9 7.5:10 7.5:11 7.5:12 7.5:14 7.5:15 7.5:14 7.5:15 7.5:19 7.5:19 7.6:10 7.6:11 7.6:10 7.6:11 7.6:11 7.6:11 7.6:11 7.6:11 7.6:11 7.6:11 7.6:11 7.6:11 7.6:11 7.6:11	Tectonics Groundwater Pollution Evaluation Map (Al) Groundwater Pollution Evaluation Map (As) Groundwater Pollution Evaluation Map (Ca) Groundwater Pollution Evaluation Map (Cd) Groundwater Pollution Evaluation Map (Cd) Groundwater Pollution Evaluation Map (Cl) Groundwater Pollution Evaluation Map (Cu) Groundwater Pollution Evaluation Map (F) Groundwater Pollution Evaluation Map (Fe) Groundwater Pollution Evaluation Map (Hg) Groundwater Pollution Evaluation Map (Mg) Groundwater Pollution Evaluation Map (Mg) Groundwater Pollution Evaluation Map (NH4) Groundwater Pollution Evaluation Map (NO3) Groundwater Pollution Evaluation Map (NO3) Groundwater Pollution Evaluation Map (Pb) Groundwater Pollution Evaluation Map (So4) Groundwater Foliution Evaluat	o dai siba Januari
7.1 7.1 7.7 7.7 7.7 7.7 8.8	Geochemical Atlas of Slovakia: Groundwater      Geochemical Atlas of Slovakia: Groundwater      Geochemical Atlas of Slovakia: Rocks     Stiavnica Region: rocks, river sediment, water     Old Environmental Load Database     Landfill Suitability Maps     Groundwater Quality Data     Surface Water Quality Data	GSSR-3 GSSR-4 GSSR-5 GSSR-6 GSSR-7 GSSR-8 GSSR-8 GSSR-9 SHMU-BA	7.3:1 7.4:1 7.5:1 7.5:2 7.5:3 7.5:5 7.5:5 7.5:8 7.5:9 7.5:10 7.5:11 7.5:12 7.5:12 7.5:12 7.5:13 7.5:14 7.5:15 7.5:16 7.5:16 7.5:16 7.5:19 7.5:19 7.5:19 7.5:20 7.6:1	Tectonics Groundwater Pollution Evaluation Map (Al) Groundwater Pollution Evaluation Map (As) Groundwater Pollution Evaluation Map (Ca) Groundwater Pollution Evaluation Map (Cd) Groundwater Pollution Evaluation Map (Cd) Groundwater Pollution Evaluation Map (Cu) Groundwater Pollution Evaluation Map (F) Groundwater Pollution Evaluation Map (F) Groundwater Pollution Evaluation Map (Fe) Groundwater Pollution Evaluation Map (Mg) Groundwater Pollution Evaluation Map (Mg) Groundwater Pollution Evaluation Map (Mg) Groundwater Pollution Evaluation Map (Mn) Groundwater Pollution Evaluation Map (NO3) Groundwater Pollution Evaluation Map (NO3) Groundwater Pollution Evaluation Map (Pb) Groundwater Pollution Evaluation Map (Pb) Groundwater Pollution Evaluation Map (Se) Groundwater Pollution Evaluation Map (So) Location Map of Groundwater Sampling Points (Geochemical Atlas of SK) Location Map of Rock Sampling Points (Geochemical Atlas of SK) Groundwater Pollution Maps in Stiavinica Old Environmental Loads in the Study Area Llcensed Landfill Sites in the Study Area	o dai siba Januari
7	Sechemical Atlas of Slovakia: Groundwater  Sechemical Atlas of Slovakia: Rocks Stiavnica Region: rocks, river sediment, water Cold Environmental Load Database Landfill Suitability Maps Groundwater Quality Data Surrace Water Quality Data Surrace Water Quality Data Wastewater Effluents	GSSR-3 GSSR-4 GSSR-5 GSSR-6 GSSR-7 GSSR-8 GSSR-8 SHMU!BA SHMU!BA	7.3:1 7.4:1 7.5:1 7.5:2 7.5:3 7.6:4 7.5:5 7.5:8 7.5:8 7.5:9 7.5:10 7.5:11 7.5:12 7.5:13 7.5:14 7.5:15 7.5:16 7.5:15 7.5:16 7.5:18 7.5:19 7.6:20 7.6:1 7.6:20 7.6:1 7.7:1 7.8	Tectonics Groundwater Pollution Evaluation Map (Al) Groundwater Pollution Evaluation Map (As) Groundwater Pollution Evaluation Map (Ca) Groundwater Pollution Evaluation Map (Cd) Groundwater Pollution Evaluation Map (Cd) Groundwater Pollution Evaluation Map (Cl) Groundwater Pollution Evaluation Map (Cu) Groundwater Pollution Evaluation Map (Fe) Groundwater Pollution Evaluation Map (Fe) Groundwater Pollution Evaluation Map (Mg) Groundwater Pollution Evaluation Map (Mg) Groundwater Pollution Evaluation Map (Mg) Groundwater Pollution Evaluation Map (Mh) Groundwater Pollution Evaluation Map (NO3) Groundwater Pollution Evaluation Map (Pb) Groundwater Pollution Evaluation Map (Pb) Groundwater Pollution Evaluation Map (Se) Groundwater Pollution Evaluation Map (So) Groundwater Pollution Evaluation Map (So) Groundwater Pollution Evaluation Map (So) Groundwater Pollution Evaluation Map (Zn) Integrated Groundwater Pollution Evaluation Map (Zn) Integrated Groundwater Pollution Evaluation Map (Zn) Location Map of Groundwater Sampling Points (Geochemical Atlas of SK) Location Map of Rock Sampling Points (Geochemical Atlas of SK) Groundwater Pollution Maps in Stlavinica Old Environmental Loads in the Study Area Landfill Sultabilty Map of the Study Area Location of Groundwater Monitoring Well Location of Groundwater Monitoring Points	
7	Geochemical Atlas of Slovakia: Groundwater      Geochemical Atlas of Slovakia: Groundwater      Geochemical Atlas of Slovakia: Rocks     Stiavnica Region: rocks, river sediment, water     Old Environmental Load Database     Landfill Suitability Maps     Groundwater Quality Data     Surface Water Quality Data	GSSR-3 GSSR-4 GSSR-5 GSSR-6 GSSR-7 GSSR-8 GSSR-8 GSSR-9 SHMU-BA	7.3:1 7.4:1 7.5:1 7.5:2 7.5:3 7.5:3 7.5:4 7.5:5 7.5:8 7.5:7 7.5:8 7.5:9 7.5:10 7.5:12 7.5:12 7.5:12 7.5:14 7.5:15 7.5:16 7.5:17 7.5:18 7.5:19 7.6:20 7.6:1 7.8:1 7.8:1 7.8:2 7.9:1 1.8:1 1.8:1 1.8:2	Tectonics Groundwater Pollution Evaluation Map (Al) Groundwater Pollution Evaluation Map (As) Groundwater Pollution Evaluation Map (Ca) Groundwater Pollution Evaluation Map (Cd) Groundwater Pollution Evaluation Map (Cd) Groundwater Pollution Evaluation Map (Cl) Groundwater Pollution Evaluation Map (Cu) Groundwater Pollution Evaluation Map (Fe) Groundwater Pollution Evaluation Map (Fe) Groundwater Pollution Evaluation Map (Mg) Groundwater Pollution Evaluation Map (Mg) Groundwater Pollution Evaluation Map (Mg) Groundwater Pollution Evaluation Map (Mh) Groundwater Pollution Evaluation Map (NO3) Groundwater Pollution Evaluation Map (Pb) Groundwater Pollution Evaluation Map (Pb) Groundwater Pollution Evaluation Map (Se) Groundwater Pollution Evaluation Map (So) Groundwater Pollution Evaluation Map (So) Groundwater Pollution Evaluation Map (So) Groundwater Pollution Evaluation Map (Zn) Integrated Groundwater Pollution Evaluation Map (Zn) Integrated Groundwater Pollution Evaluation Map (Zn) Location Map of Groundwater Sampling Points (Geochemical Atlas of SK) Location Map of Rock Sampling Points (Geochemical Atlas of SK) Groundwater Pollution Maps in Stlavinica Old Environmental Loads in the Study Area Landfill Sultabilty Map of the Study Area Location of Groundwater Monitoring Well Location of Groundwater Monitoring Points	o karsala Januar

able NO	GIS DATABASE	Data Owner	Map NO	Map Title	page
	Yield of Springs	SHMU BB 3			
10.4	Register of Withdrawal of Underground Water	SHMU BB 4			
11.1	Meteorological Data Including Rain-Gauge Data	SHMU BB 5	11.1.1	Areal Distribution of Mean Annual Precipitation Totals calculated for the period of 1951-1980 by SHMU	3
			11,1.2	Areal Distribution of Mean Annual Air Temperatures calculated for the period of 1951-1980 by SHMU	
			11.1.3	Areal Distribution of Mean Annual Wind Speed at 10m above Terrain calculated for the period of 1971-1990 by SHMU	. 4
			11.1.4	Areal Distribution of Mean Global Solar Radiation Sums calculated for the period of 1951-1980 by SHMU	4
	SHMU BB -Air Quality Data	SHMU BB 6			
	Tree Species Composition of Slovakia	LVU 1	12.1.1	Forest Health Condition Map of the Study Area	
	Crown Condition	LVU 2			<u> </u>
	Soil Condition	LVU 3			
	Foliar Condition	LVU 4	<u> </u>		
	Deposition	LVU 5			
12.6	Forest Regions	LVU 6	12.6.1	Forest Regions	
	Calculated Deposition of Sulfur and Nitrogen	LVU 7	1000		
. 12.8	Calculated Critical Load of Sulfur and Nitrogen	LVU 8			
12.9	Forest Management Districts	L <b>VU</b> 9	12.9.1	Distribution of Commercial, Protectional and Special Purpose Forests in the Study Area	4
	Forest Health Condition Map	LVU10			
13.1	Basic Map of the Slovak Republic, ZM200	IGC 1			
	Basic Map of the Slovak Republic, ZM50	IGC 2	N. 2.2.4		200
13.3	Map of Administrative Division of Slovak Republic	IGC 3			
14.1	Evaluation of Ecological Capacity of Ziarska Valley Region	CU 1			
15.1	immovable Cultural Monuments	SPU 1	15,1,1	Distribution of Monuments In the Study Area	
			15.1.2	Construction State of Monuments in the Study Area	
			15,1,3	Immovable Monuments in the Study Area by Okres and Type of Monument	
15.2	Public Utilities	Stat.	15.2.1	Public Water Supply System (PWS)	
11 11 11 11			15.2.2	Public Sewerage System (PSS)	
16.1	Hydroecological Plan	HEP 1	16.1.1	Waste Disposal Sites	
17.1	Nitra Kraj Statistical Data	KSSU 1	17.1.1	Population Density Map of the Study Area	
11/2/201			17.1.2	Population Distribution Map of the Study Area	
			17.1.3	Average Household size by Cadaster In the Study Area	
<u> </u>			17.1.4	Settlement Structure of the Study Area	
18.1	Nitra Kraj Territorial Plan	NR TR 1			
18.2	Banska Bystrica Kraj Territorial Plan	NR TR 2			
19.1	Tourist Sites in the Study Area	VKU	19.1.1	Sites of Tourism Interest in the Study Area	
20.1	Fishing area in the Study Area	others	20.1,1	Fishing areas of Slovak Fishing Union along the Hron river	
	Endemic Species	others	21.1.1	Distribution of Endemic Species in Slovakia	
	Natural Forest Vegetation	others	21.2.1	Natural Forest Vegetation of the Study Area	
22.1	Vulnerability of Groundwater Pollution by DRASTIC Method	GSSR	22.1.1	Depth to the Groundwater Table ( D : Weight 3)	
			22.1.2	Net Recharge (R: Weight 4)	
			22.1.3	Aquifer Media ( A : Weight 3 )	
			22.1.4	Soil Media (S: Weight 2)	
			22.1.5	Topography (T: Weight 3)	7.5
			22.1.6	Impact of Vadose Zone (1: Weight 5)	
100			22.1.7	Hydrogeology Transmisivity (C : Weight 4)	7.1
			22.1.8	Groundwater Vulnerability Map	
23.1	Case Study for Project Prioritization : Sewerage Development Projects	SHMU	23,1.1	Effects on Environment - 1 : Reduction of Pollution Load	
			23.1.2	Effects on Environment - 2 : Improvement of Water Quality	
			23.1,3	Socio-Political Acceptance/Resistance : Government Support	
		1	22 4 4	Support People's Willingness : Community Support	
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		4 (4) (5) (5)	23.1.5	The Total Points ( Final Evaluation)	1.5-1
94 1	Modelling Results:Air Pollution Index in the Study Area	SHMU	24.1.1	Modelling Results:Air Pollution Index in the Study Area in 1990(Annual Average)	

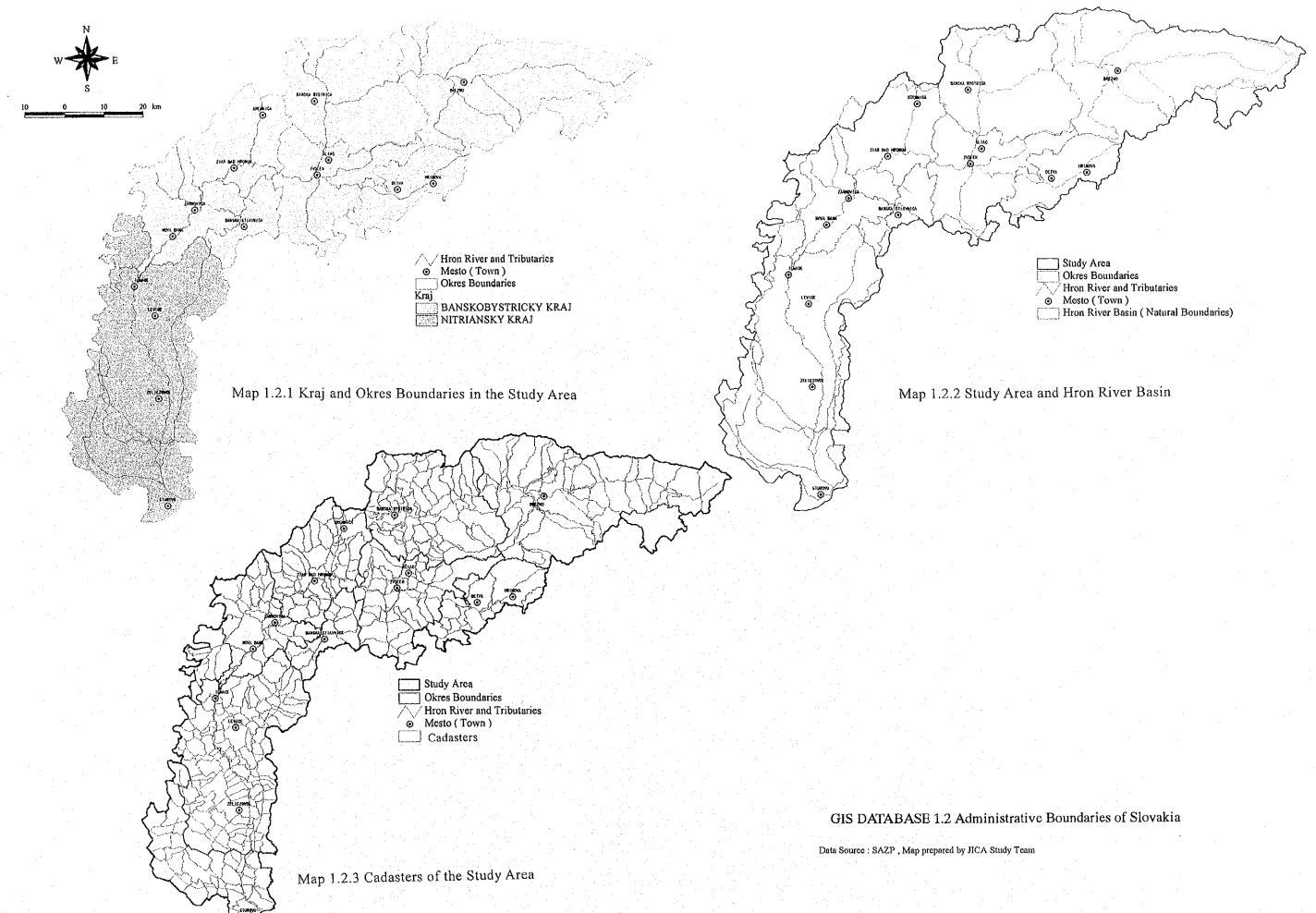
Note: "Table NO" from 1.1 to 19.1 is related to "ANNEX O.1 DETAILS of DIGITAL DATA SETS ACQUIRED BY THE STUDY TEAM" in the supporting report.

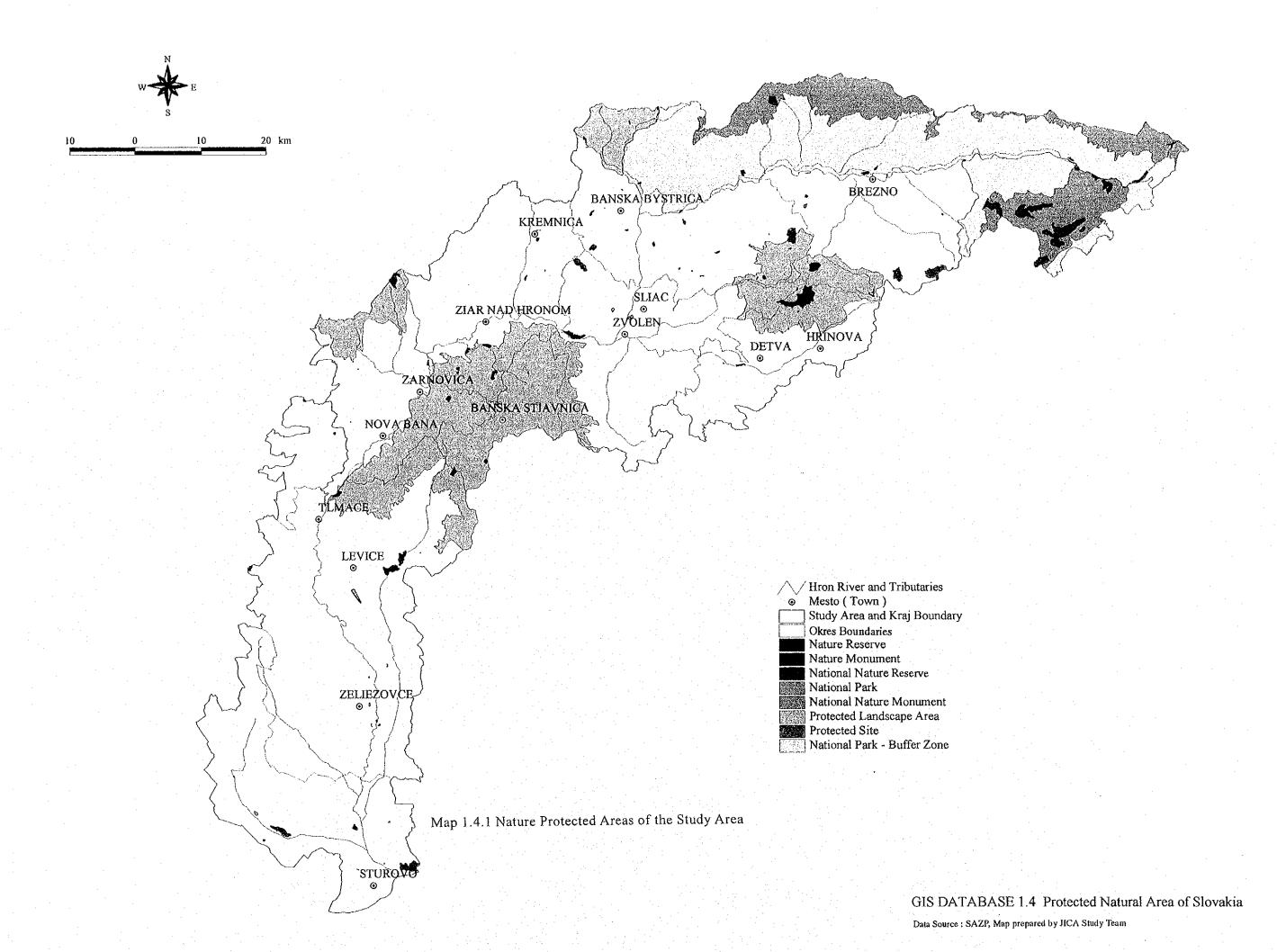


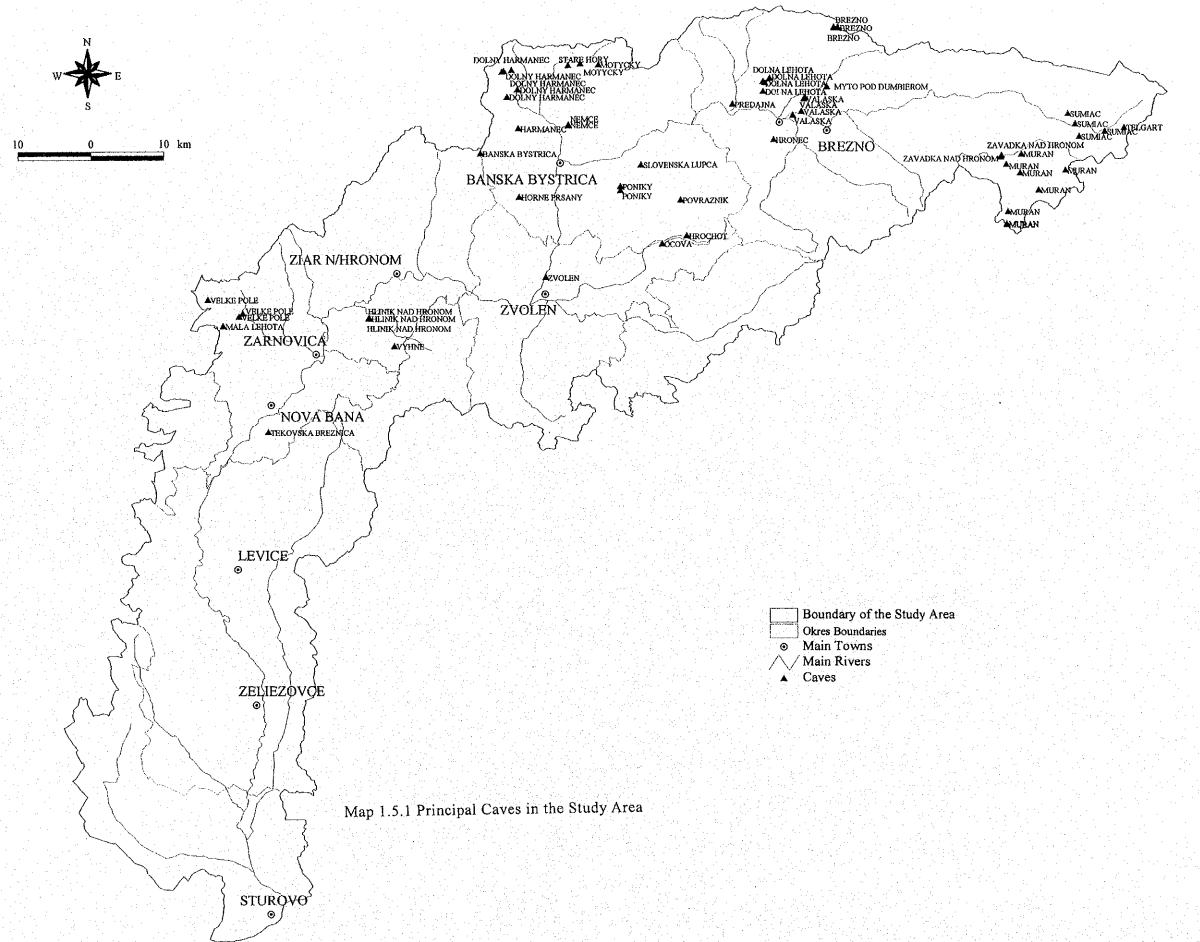


GIS DATABASE 1.1 Water Management Data (1)

Data Source: SAZP, Map Prepared by JICA Study Team

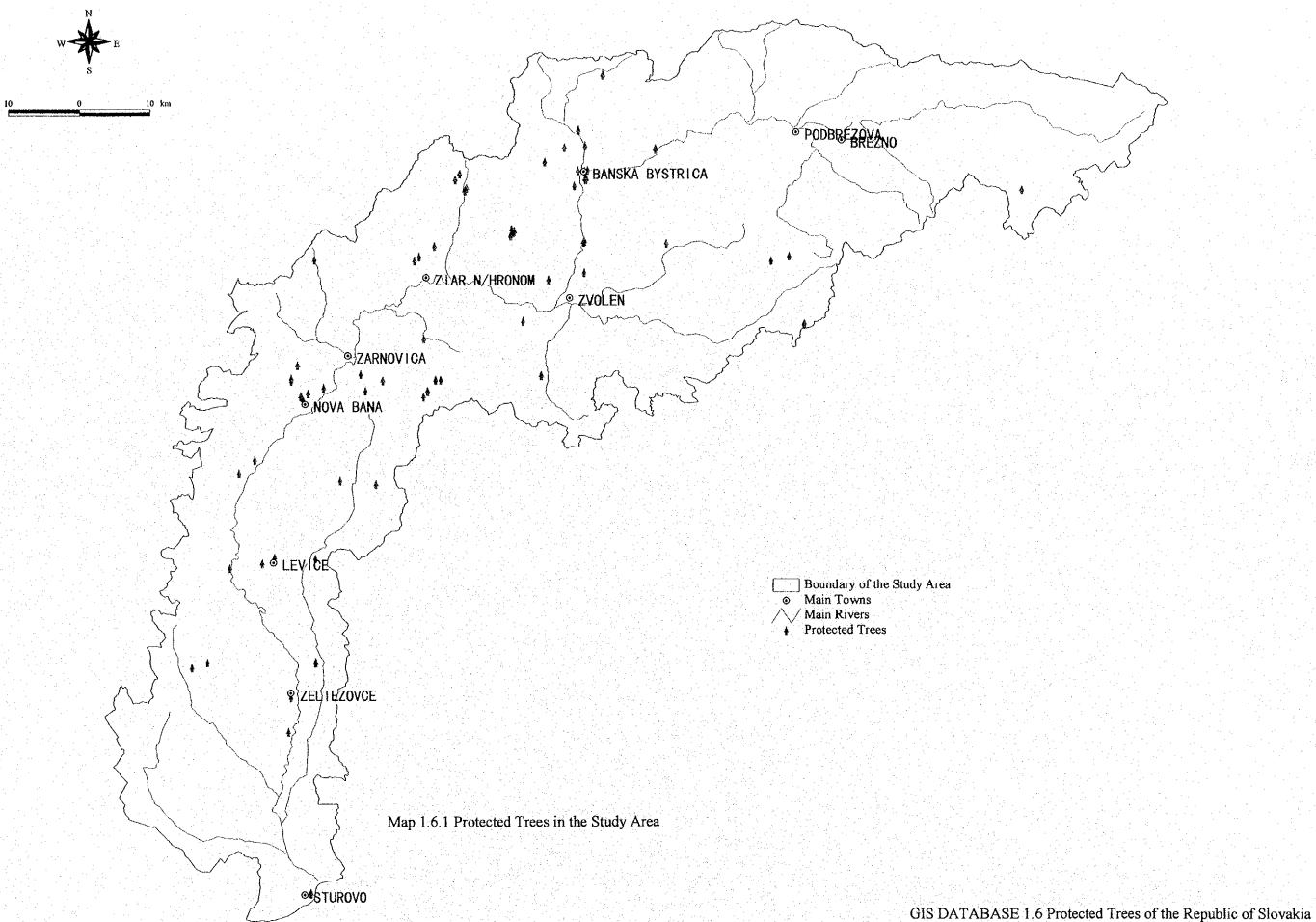


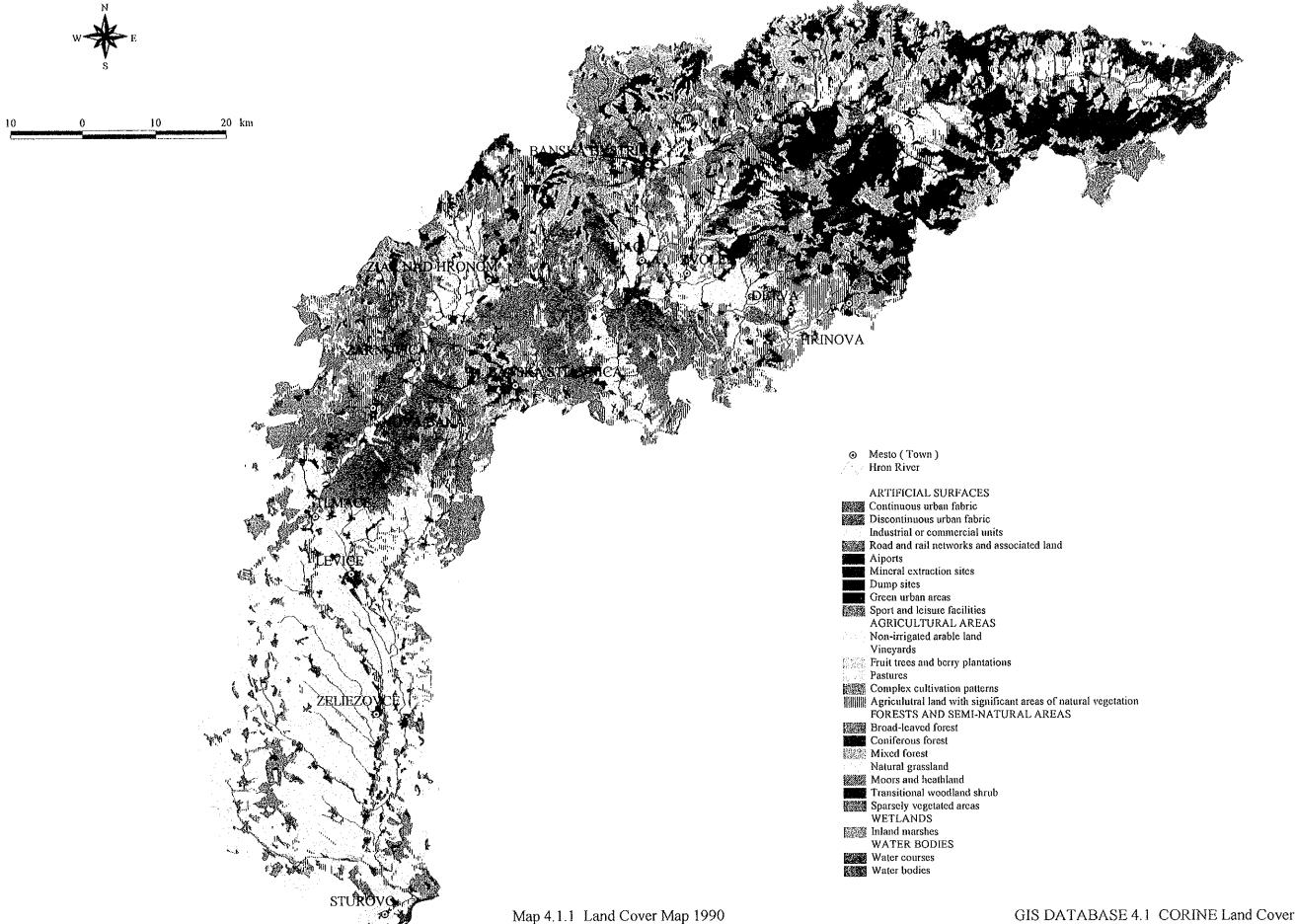




GIS DATABASE 1.5 Caves of the Republic of Slovakia

Data Source : SAZP, Map prepared by JICA Study Team





Data Source: SAZP, Map prepared by JICA Study Team



BANSKA BYSTRICA BANSKA STIAVNICA TEVICE ZELIEZOÝCE

STUROVO -

Map 4.1.1 Land Cover Map 1990

BRFZNO

DETVA

-HŘINOVA

→ Mesto ( Fown )Hron River

## ARTIFICIAL SURFACES

Continuous urban fabric

Discontinuous urban fabric

Industrial or commercial units

Road and rail networks and associated land

量数 Amorts

Mineral extraction sites

Dump sites

Green urban areas

Sport and leisure facilities

AGRICULTURAL AREAS

Non-arrigated anable land

Vineyards

Fruit trees and berry plantations

Pastures

Complex cultivation patterns

Agricultural land with significant areas of natural vegetation

FÖRESTS AND SEMI-NATURAL AREAS

Broad-leaved forest

225 Conferous forest

Mixed forest

Natural grassland
Moors and heathland

Transitional woodland shrub

Sparsely vegetated areas

WETLANDS

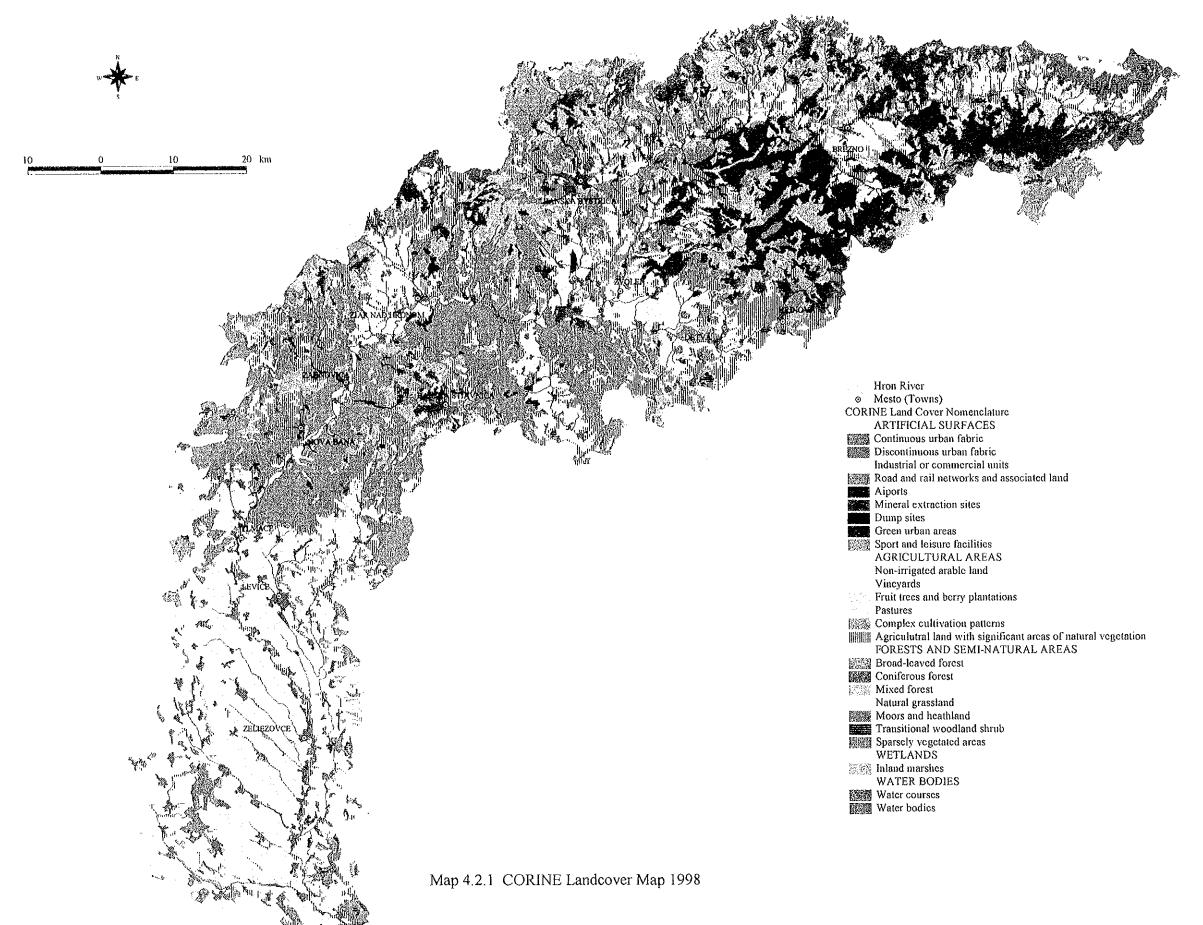
Inland marshes

WATER BODIES

Water courses

Water bodies

GIS DATABASE 4.1 CORINE Land Cover

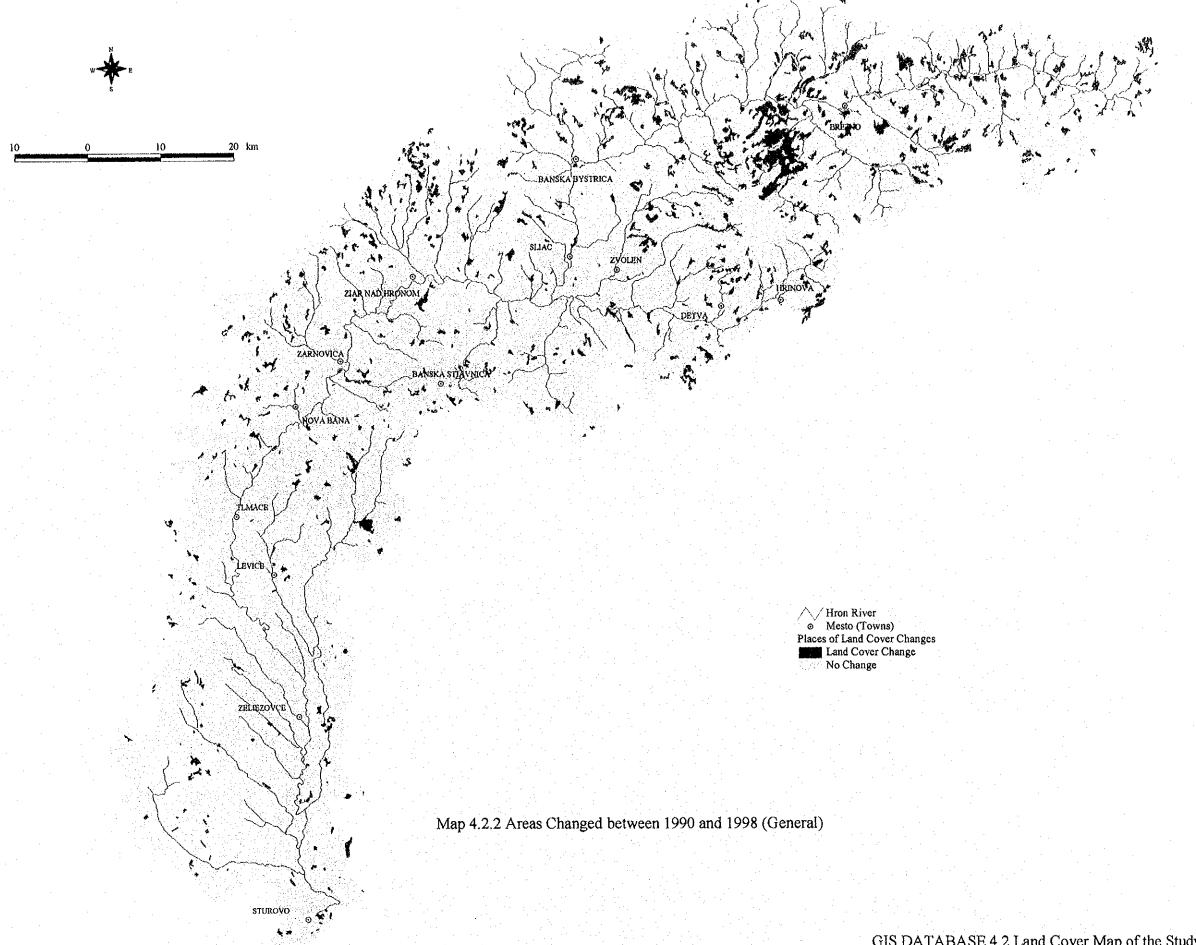


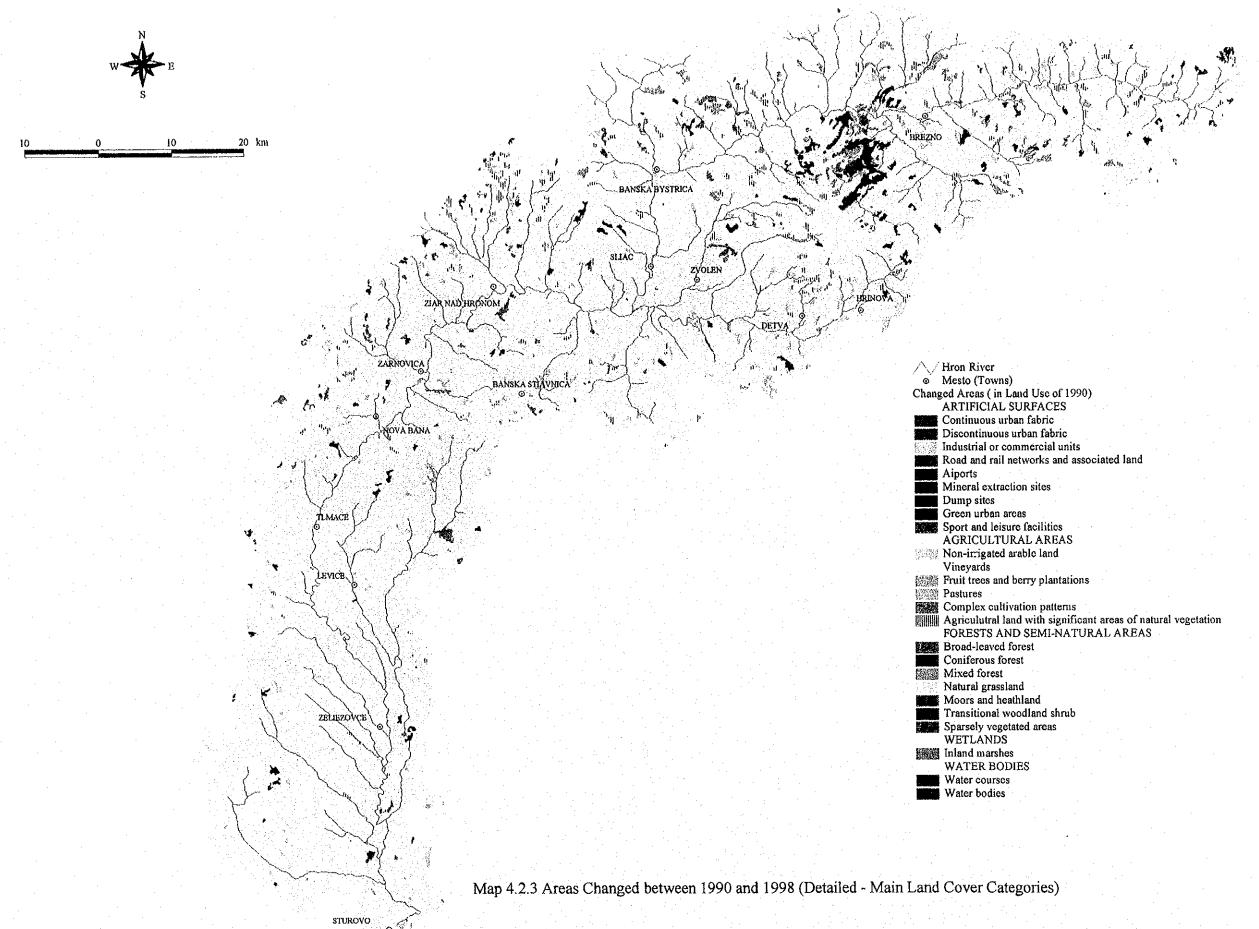
GIS DATABASE 4.2 Land Cover Map of the Study Area as of 1998

Data Source : SAZP, Map prepared by JICA Study Team

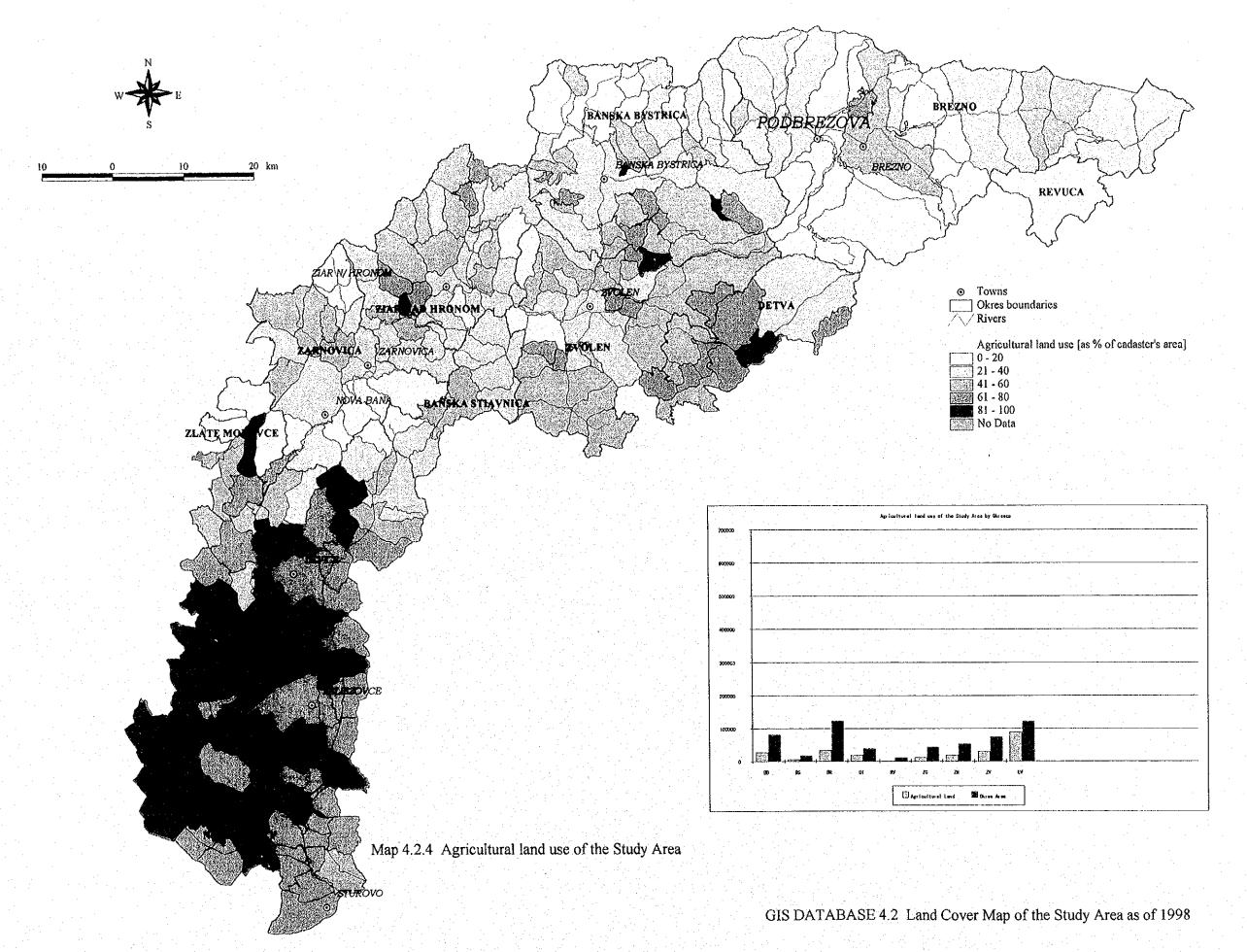
Hion River Mesto (Towns) CORINE Land Cover Nomenciature ARTHFICIAL SURFACES Continuous urban fabric Discontinuous urban fabric Industrial or commercial units Road and rail networks and associated land-記憶 Aiports Mineral extraction sites Dump sites TEMACE Eg. Green urban areas Sport and lessure facilities AGRICULTURAL AREAS Non-urrigated anable land Vineyards HARLE Fruit trees and beily plantations Pastures Complex cultivation patterns Agriculatial land with significant areas of introdiversities a PORESTS AND SEMI-NATURAL ARE AS Broad-leaved forest Coniferous forest Mixed forest Natural grassland Moors and heathland 學會 Transitional woodland shrun ZELIEZOVATE Sparsely vegetated areas WETLANDS Inland marshes WATER BODIES Water courses Water bodies Map 4.2.1 CORINE Landcover Map 1998

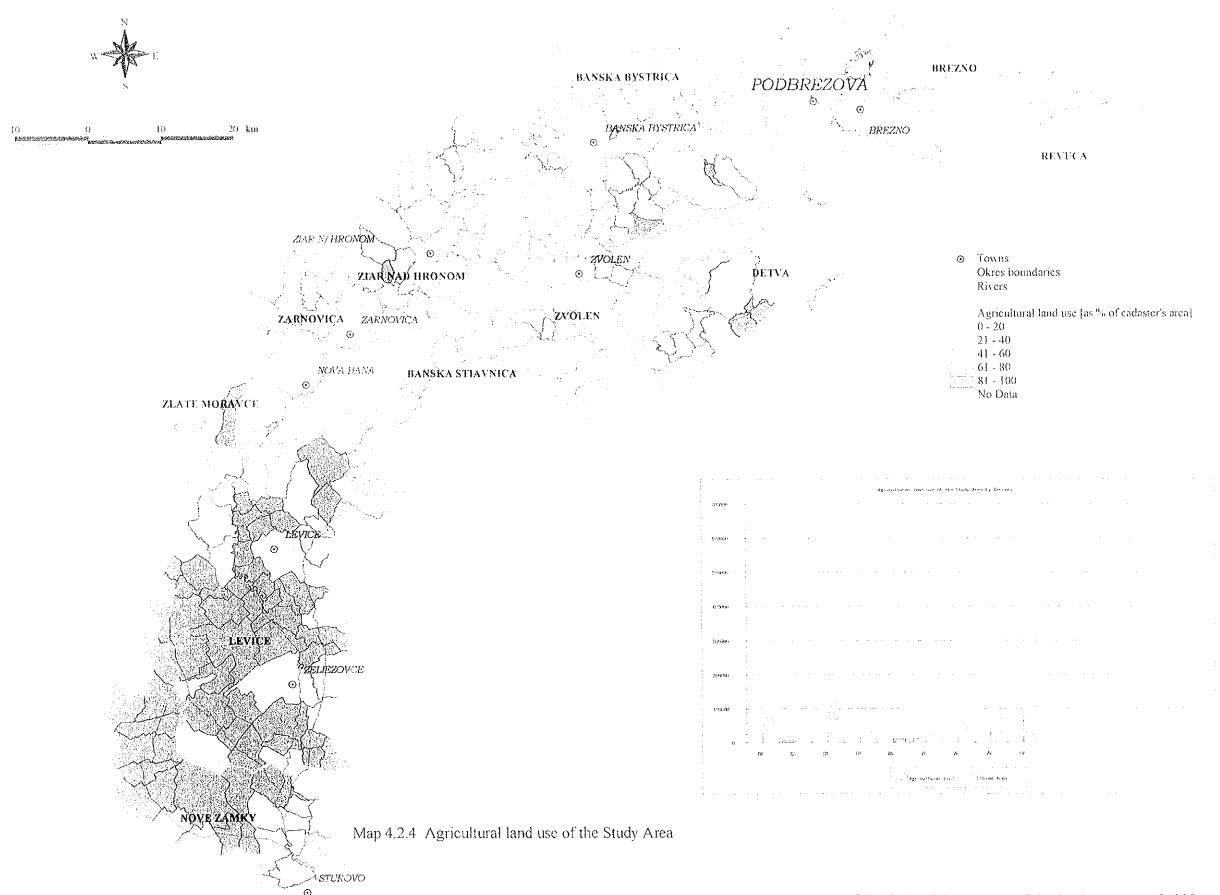
GIS DATABASE 4.2 Land Cover Map of the Study Area as of 1998.



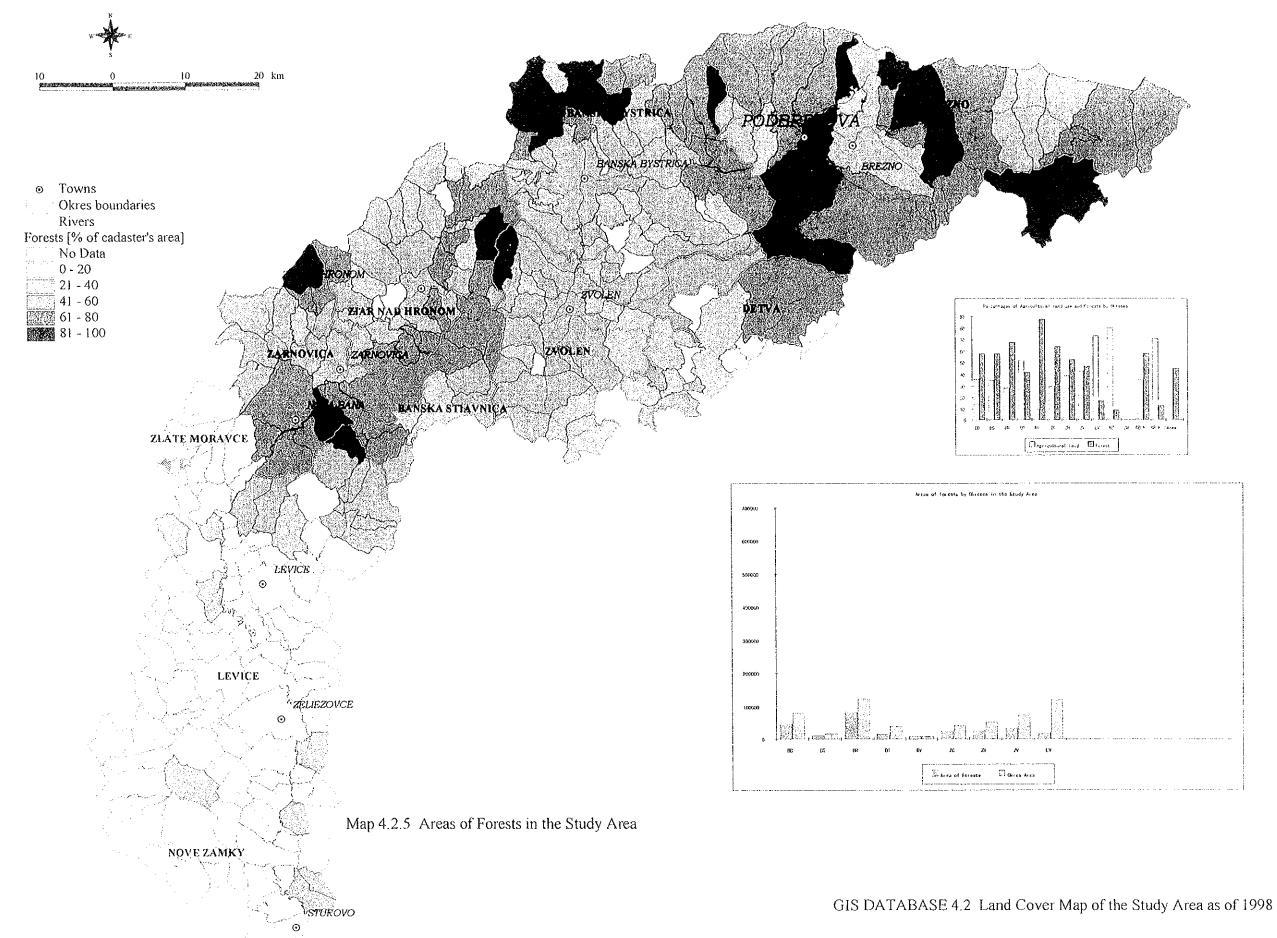


GIS DATABASE 4.2 Land Cover Map of the Study Area as of 1998

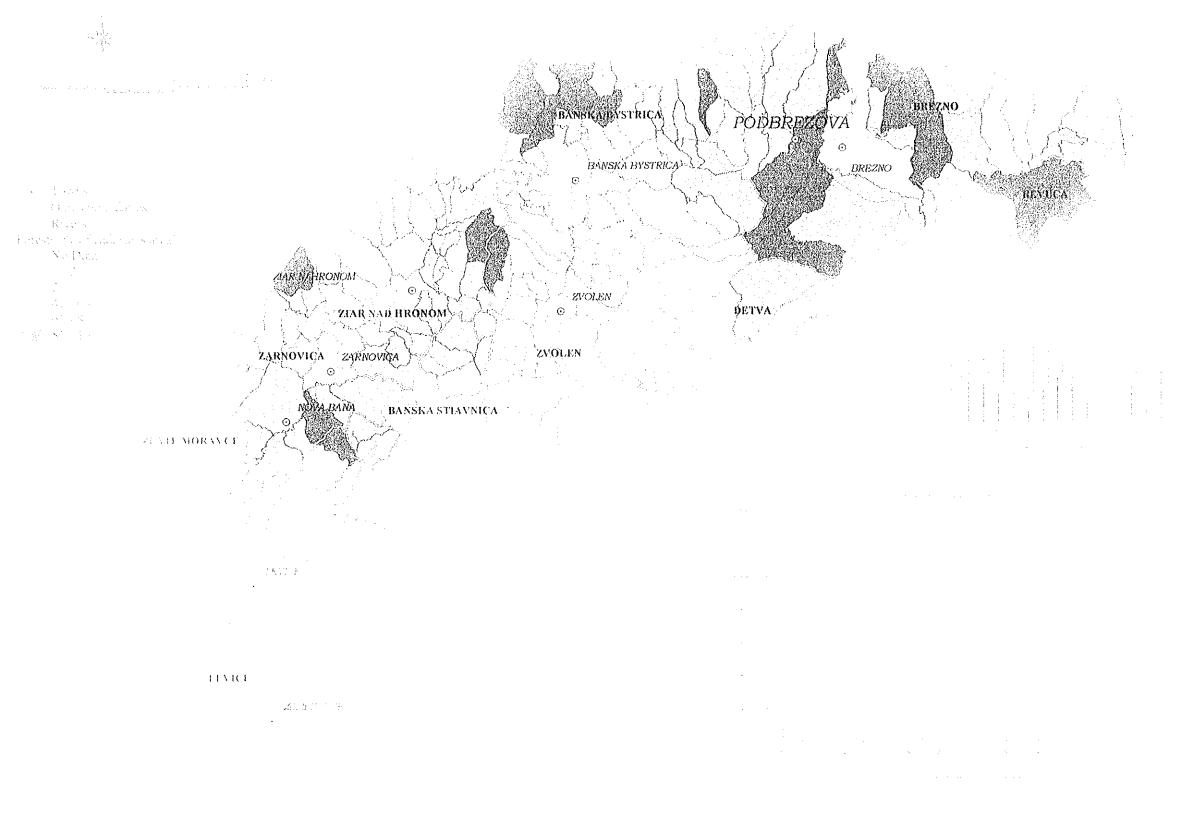




GIS DATABASE 4.2 Land Cover Map of the Study Area as of 1998



Data Source: SAZP, Map prepared by JICA Study Team



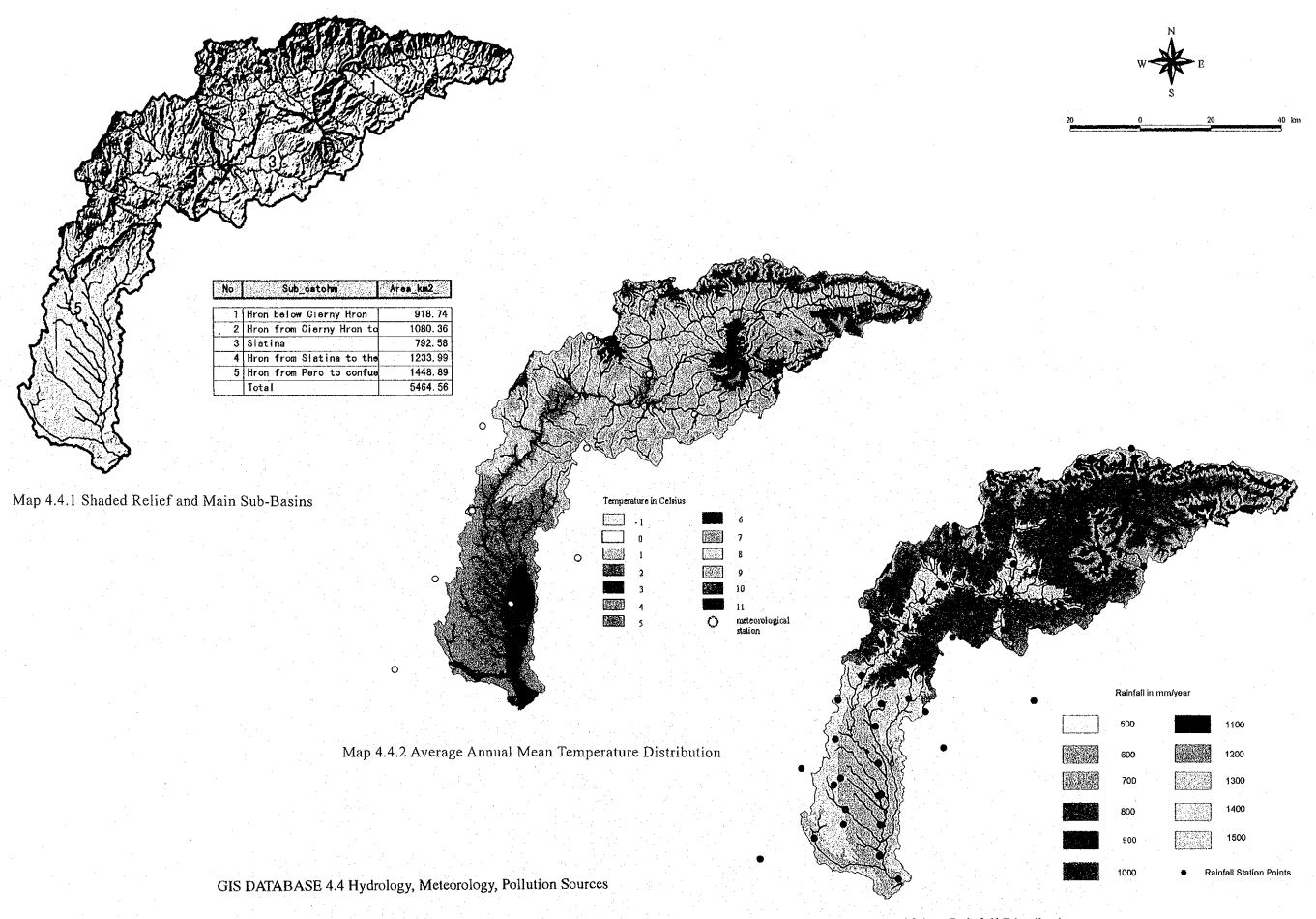
Alap 4.2.5 Areas of Forests in the Stady Area

SOVEZAMKY

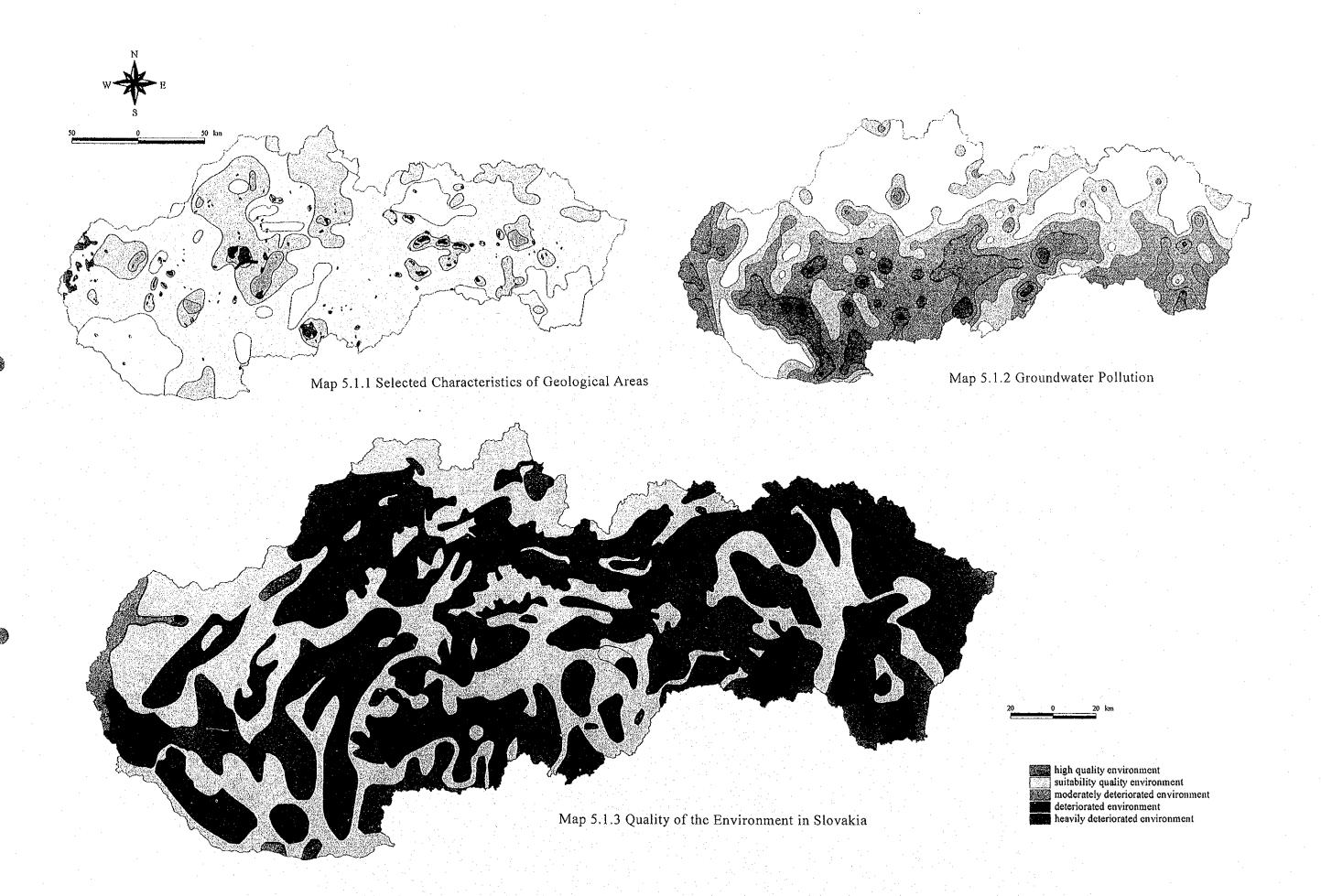
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Cost, Searce SAME Management to Total Science Land



Map 4.4.3 Average Annual Mean Rainfall Distribution



GIS DATABASE 5.1 Endangered Landscape Areas