

INTERNATIONAL COURT OF JUSTICE

CASE

CONCERNING THE GABCIKOVO-NAGYMAROS

PROJECT

(HUNGARY/SLOVAKIA)

MEMORIAL

OF THE REPUBLIC OF HUNGARY

ANNEXES

MAPS & PHOTOGRAPHS

VOLUME 2

2 MAY 1994

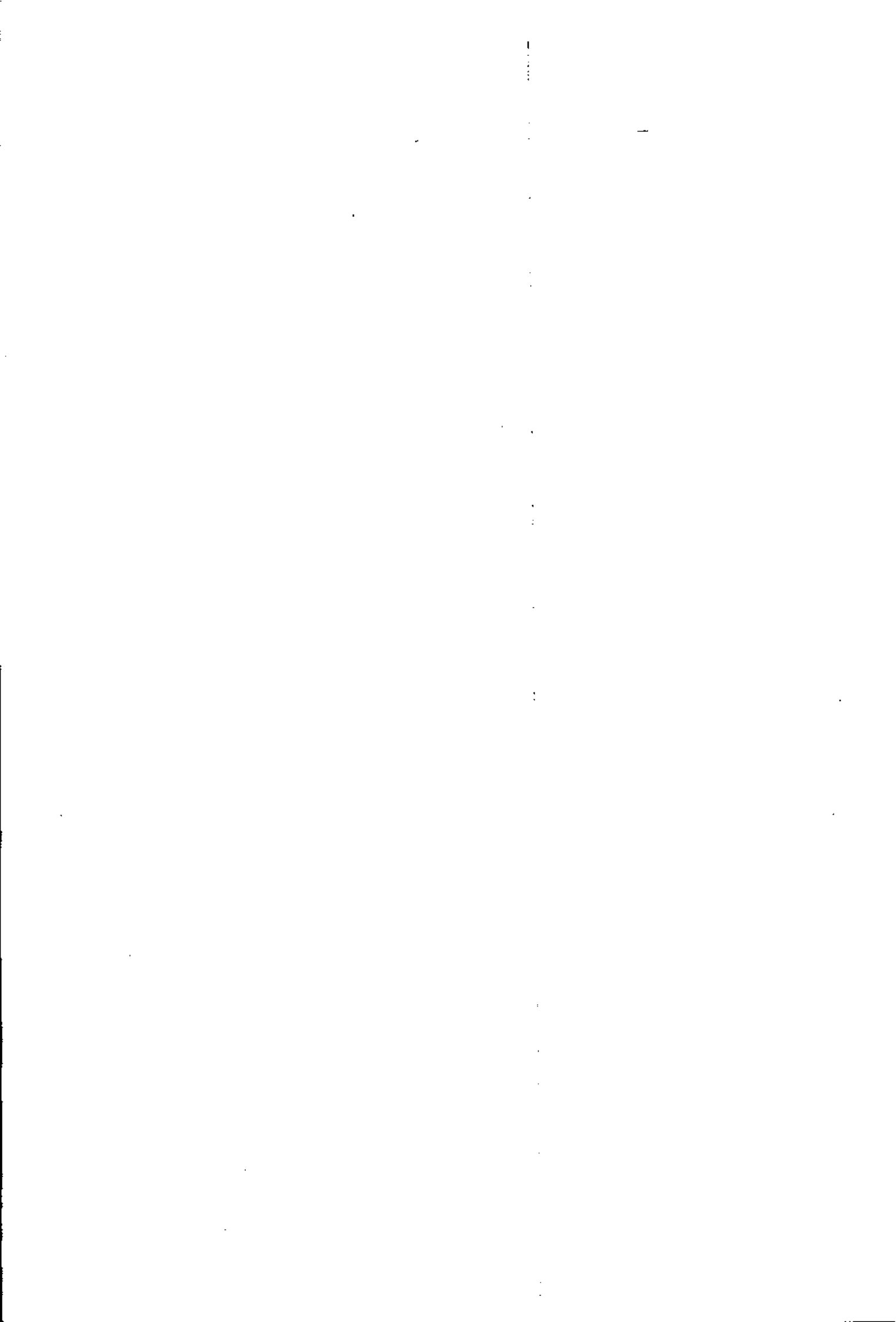


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SOURCES

Maps 1, 2, 3, 5, 6, 7, 8, 9 = Prepared by ECOPLAN, Ltd. Based on the topographic map sheets of the Cartographic Co., Budapest, and on the aerial photography update of the Remote Sensing Institute, Budapest. Data supplied by the Danube Environmental Monitoring and Information System.

Map 10 = Prepared by the Geological Institute of Hungary.

Map 11, 12 = Maps compiled in the DANREG project. Prepared by the Eötvös Loránd Geophysical Institute.

Map 4 = Compiled by M. Kaiser in 1992 and digitized by R. Szeiler, V. Vad.

Photographs = Provided by MTI (Hungarian News Agency), Mr. Péter Deák Bárdos, Ms. Judith Müller and Mr. Csaba Habik.

MAPS

Map No. 1 Upper Danube River Section, Environmental Impact Area
(Bratislava to Gönyü).

Upper Danube River Section Gabcíkovo-Nagymaros Barrage System Environmental Impact Area













Map No. 1

Scale: M=1: 175.000

10 km



Legend

-  Operation channel, reservoir
-  Inundation dike
-  Settlement
-  Danube
-  Forest
-  Road
-  Railway
-  Border of admin. units
-  Creek, channel
-  River km
-  State border
-  Existing barrage

A U S T R I A

S L O V A K I A

H U N G A R Y

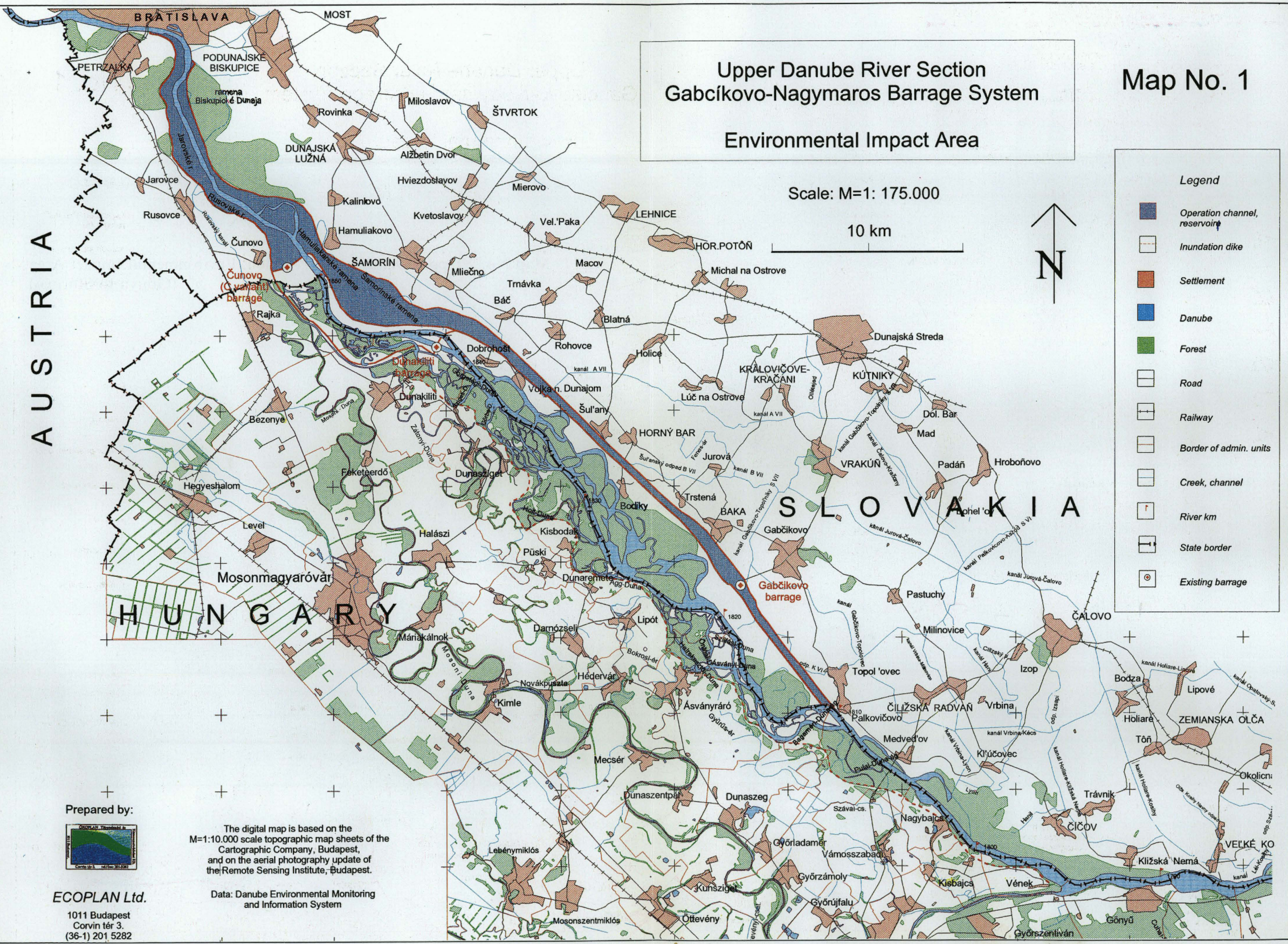
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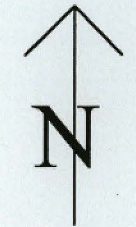
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Upper Danube River Section
 Gabčíkovo-Nagymaros Barrage System
 Environmental Impact Area

Scale: M=1: 175.000

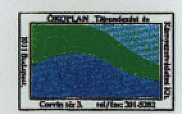
10 km



- Legend**
- Settlement
 - Danube
 - Forest
 - Road
 - Railway
 - Border of admin. units
 - Creek, channel
 - River km
 - State border



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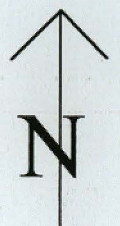
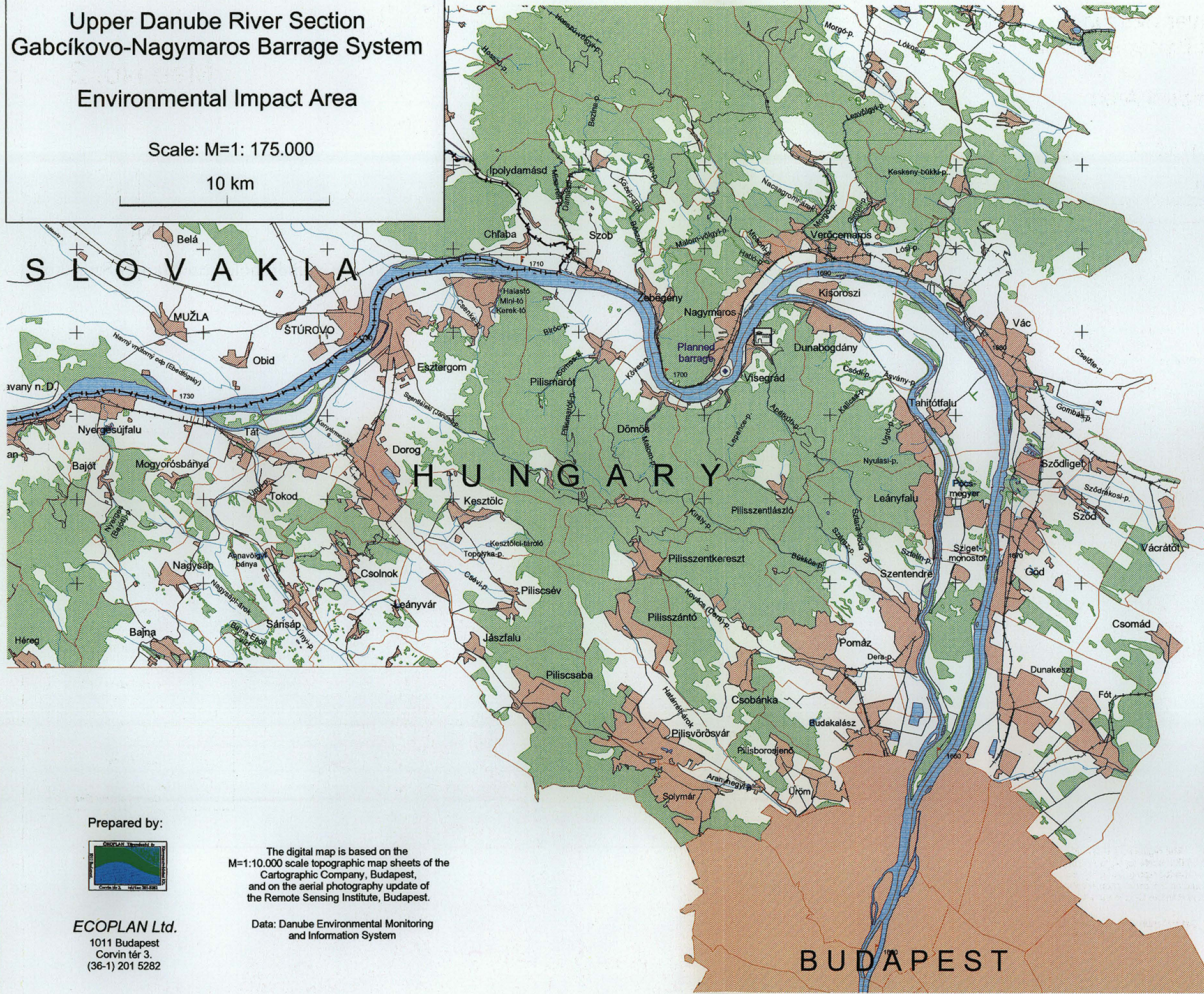
Upper Danube River Section Gabcíkovo-Nagymaros Barrage System

Environmental Impact Area












Scale: M=1: 175.000

10 km

Map No. 3



Legend

-  Planned barrage
-  Settlement
-  Danube
-  Forest
-  Road
-  Railway
-  Border of admin. units
-  Creek, channel
-  River km
-  State border
-  Castle, excavations

Prepared by:



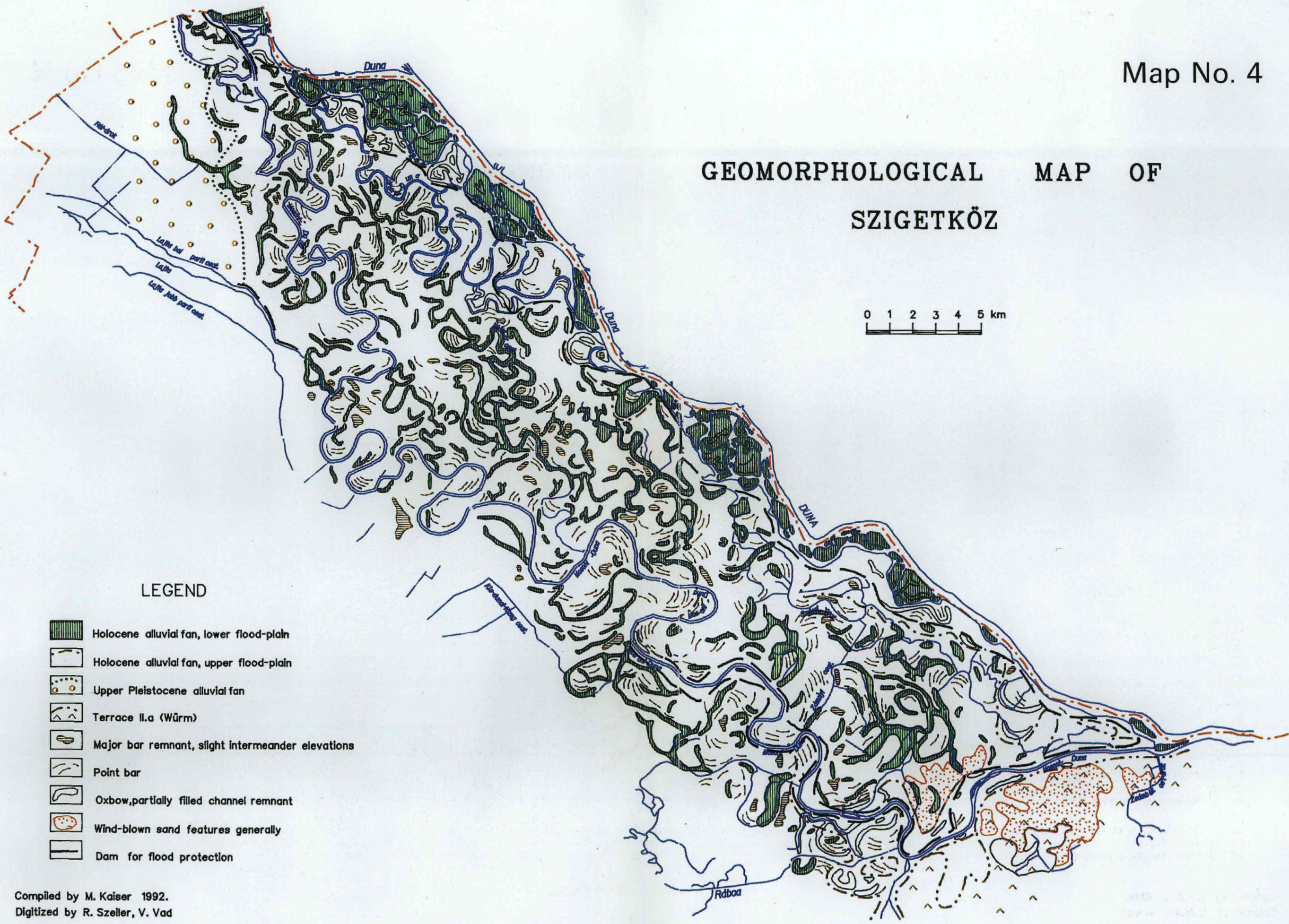
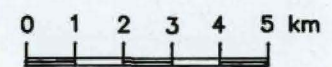
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Data: Danube Environmental Monitoring
and Information System

BUDAPEST

GEOMORPHOLOGICAL MAP OF SZIGETKÖZ



LEGEND

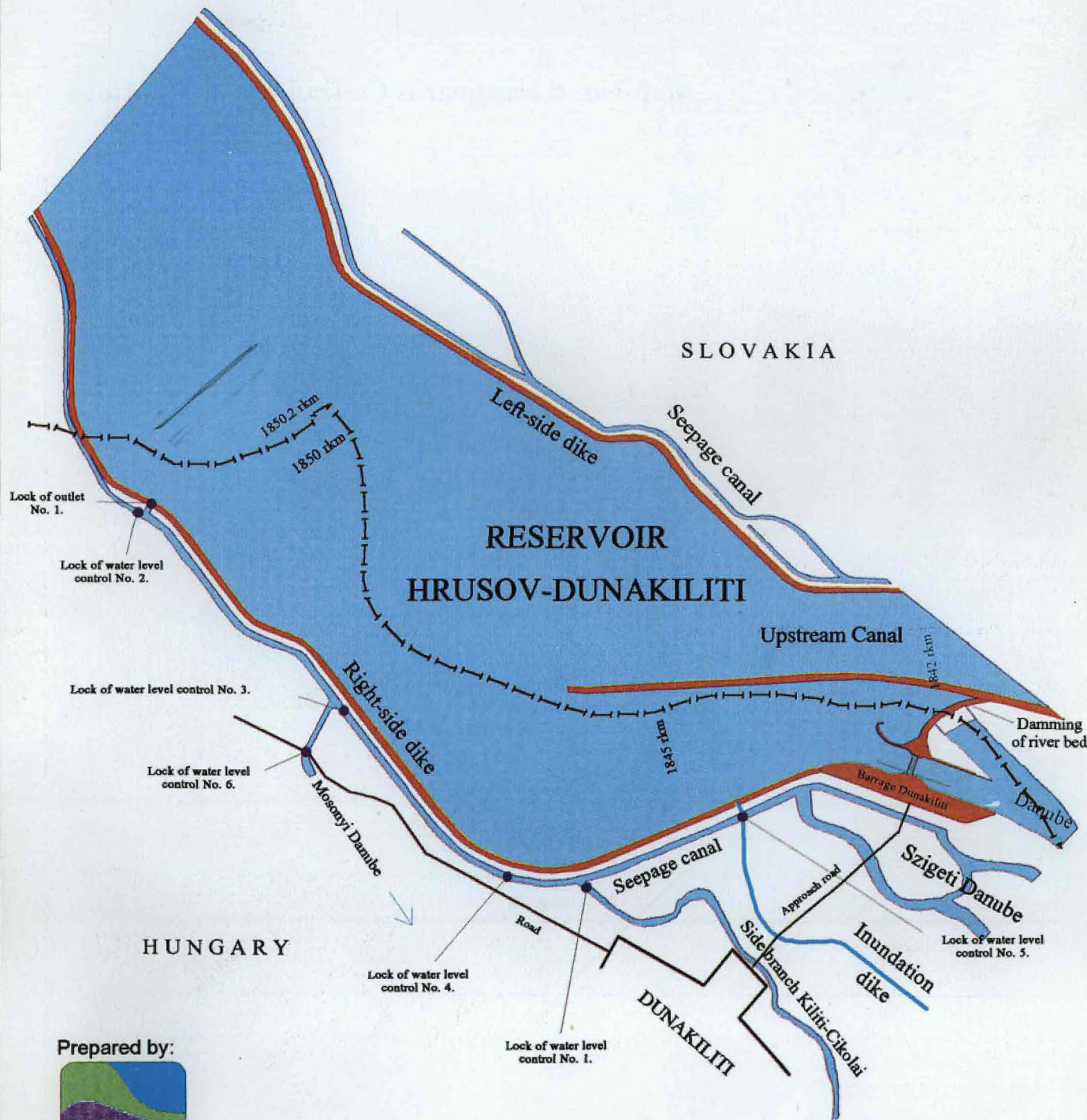
-  Holocene alluvial fan, lower flood-plain
-  Holocene alluvial fan, upper flood-plain
-  Upper Pleistocene alluvial fan
-  Terrace II.a (Würm)
-  Major bar remnant, slight intermeander elevations
-  Point bar
-  Oxbow, partially filled channel remnant
-  Wind-blown sand features generally
-  Dam for flood protection

Compiled by M. Kaiser 1992.
Digitized by R. Szeller, V. Vad

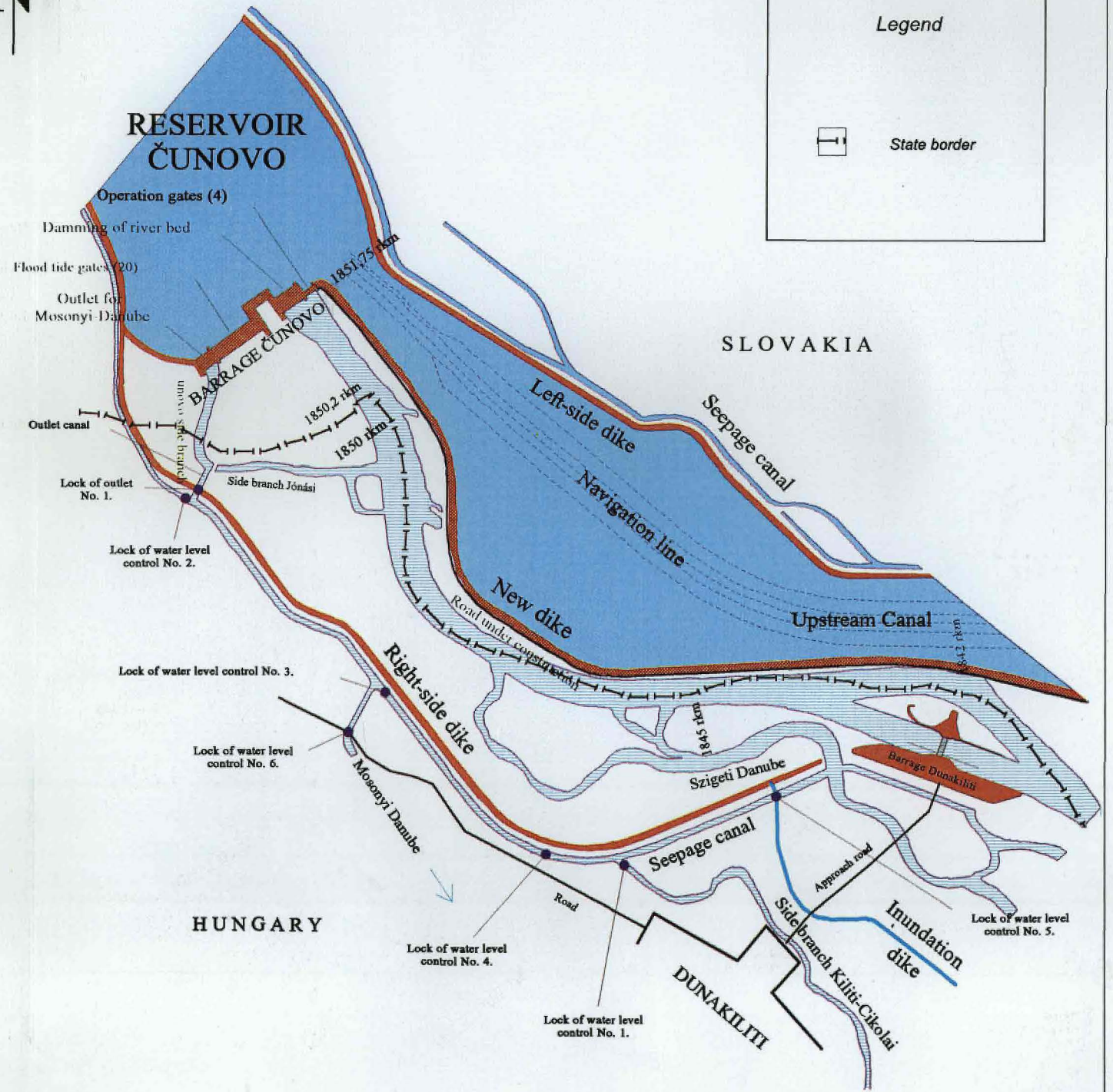
COMPARISON OF THE ORIGINAL PROJECT AND VARIANT C

Map No. 5

ORIGINAL PROJECT



VARIANT C



Legend

State border






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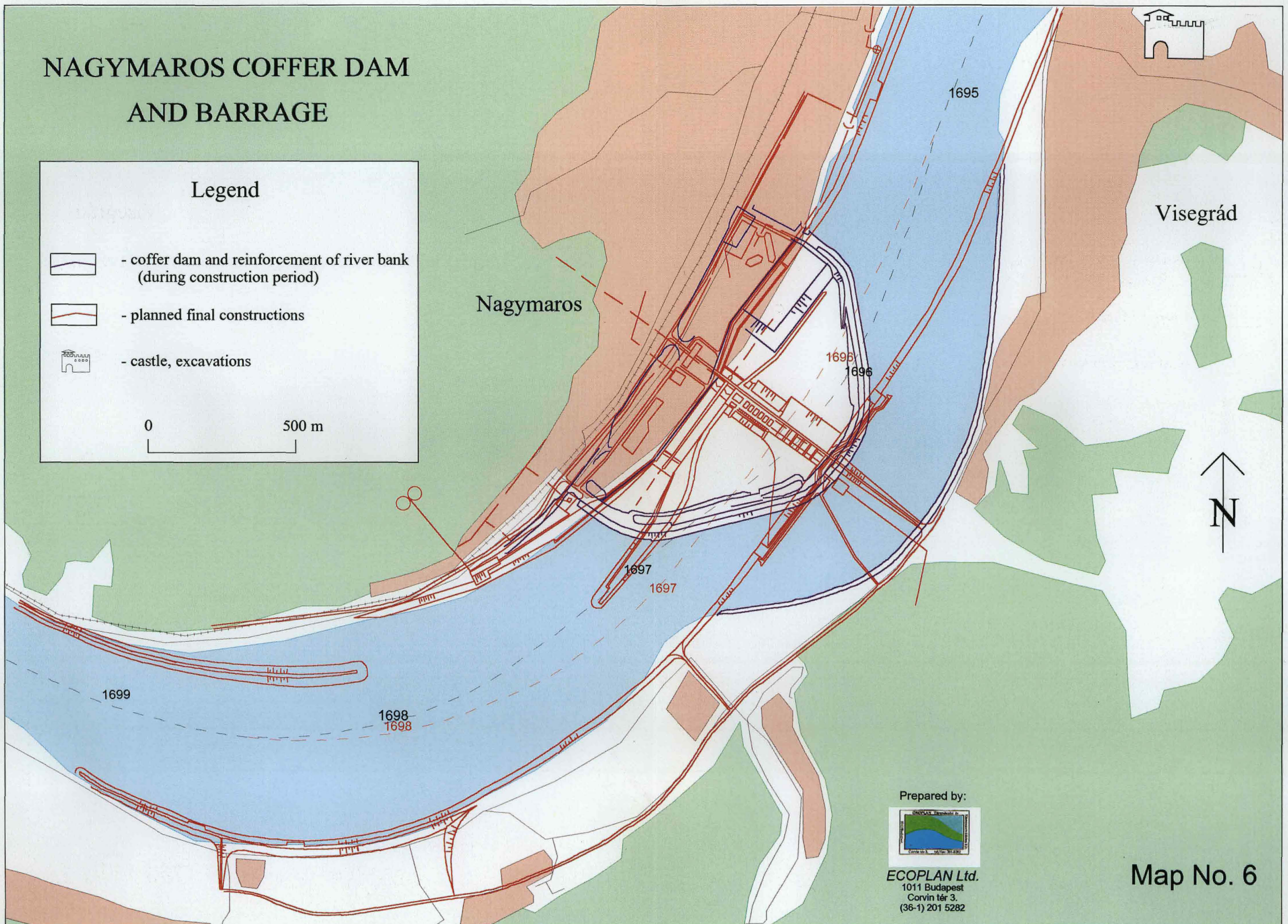
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NAGYMAROS COFFER DAM AND BARRAGE

Legend

-  - coffer dam and reinforcement of river bank (during construction period)
-  - planned final constructions
-  - castle, excavations

0 500 m



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Map No. 6

Upper Danube River Section Gabčíkovo-Nagymaros Barrage System

Changes in the Monthly Average Flow-Rate 1991-1993 (m³/sec)

Map No. 7

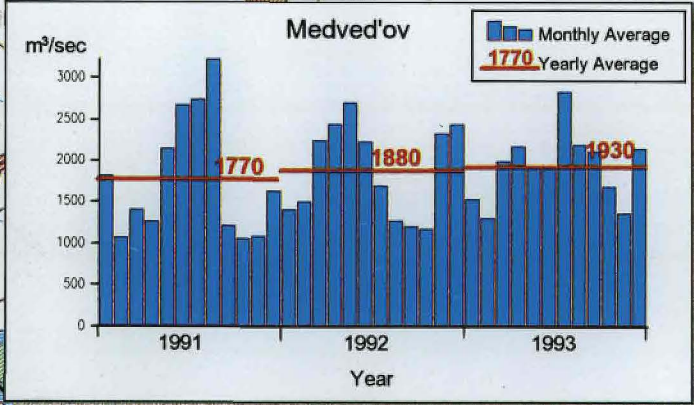
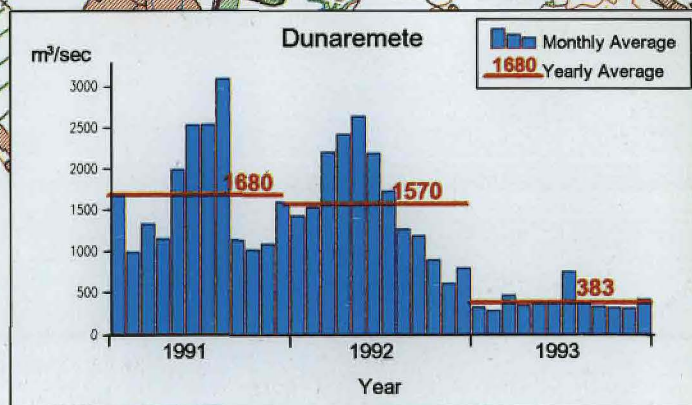
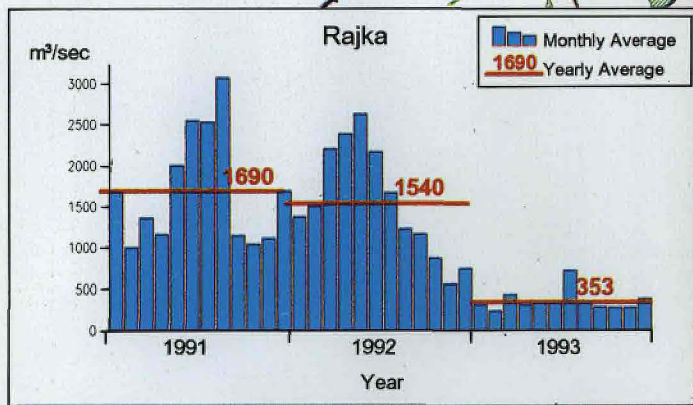
Scale: M=1: 175.000

10 km

Legend

- Operation channel, reservoir
- Inundation dike
- Settlement
- Danube
- Forest
- Road
- Railway
- Border of admin. units
- Creek, channel
- River km
- State border
- Existing barrage

A U S T R I A



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Data: Danube Environmental Monitoring and Information System

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Upper Danube River Section Gabcíkovo-Nagymaros Barrage System

Sites of Archaeological, Cultural and Architectural Importance

Scale: M=1: 175.000

10 km

Map No. 8



Legend

- Planned barrage
- Settlement
- Danube
- Forest
- Road
- Railway
- Border of Admin. Units
- Creek/Channel
- River km
- State Border

ANCIENT RUINS, REMAINS AND ARTIFACTS (ROMAN, GOTHIC) MEDIEVAL AND POST MEDIEVAL RUINS, REMAINS AND ARTIFACTS

- Castles/Fortress
- Religious Structures
- Secular Structures
- Buildings of Architectural Interest

NATIONAL SIGNIFICANCE LOCAL SIGNIFICANCE

- Museum
- Sites of Historic and Literary Importance
- Statue/Monument
- National Heritage Sites
- Sites of Importance to Ethnic Groups
- Festivals
- Industrial National Monument

- Protected Values National Monuments
- Archaeological Sites
- Area of Protected Monuments
- Village of Historic and Traditional Importance

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Data: Danube Environmental Monitoring and Information System

BUDAPEST

Upper Danube River Section
 Gabčíkovo-Nagymaros Barrage System
 Including Variant C

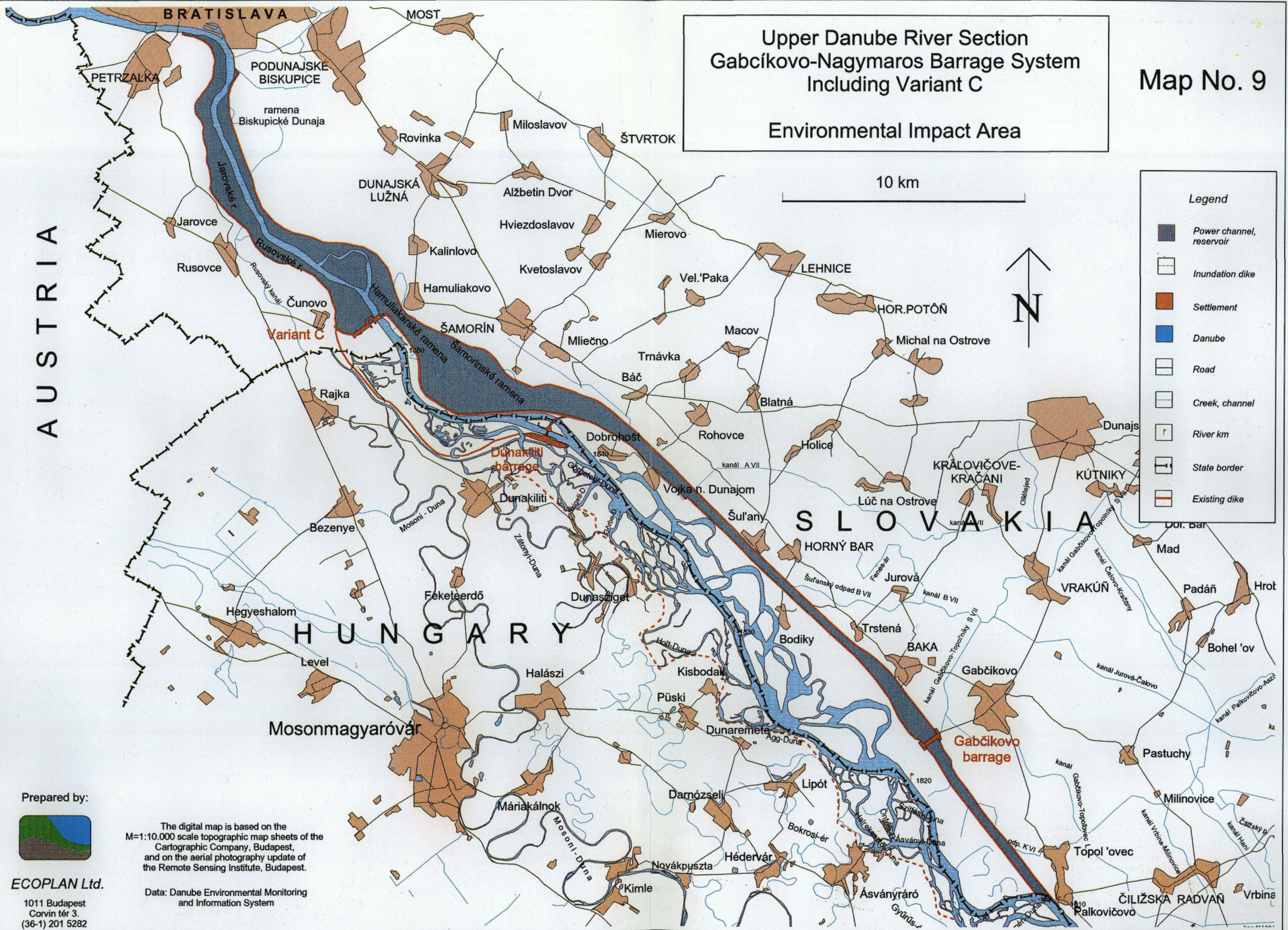
Map No. 9

Environmental Impact Area

10 km



Legend	
	Power channel, reservoir
	Inundation dike
	Settlement
	Danube
	Road
	Creek, channel
	River km
	State border
	Existing dike



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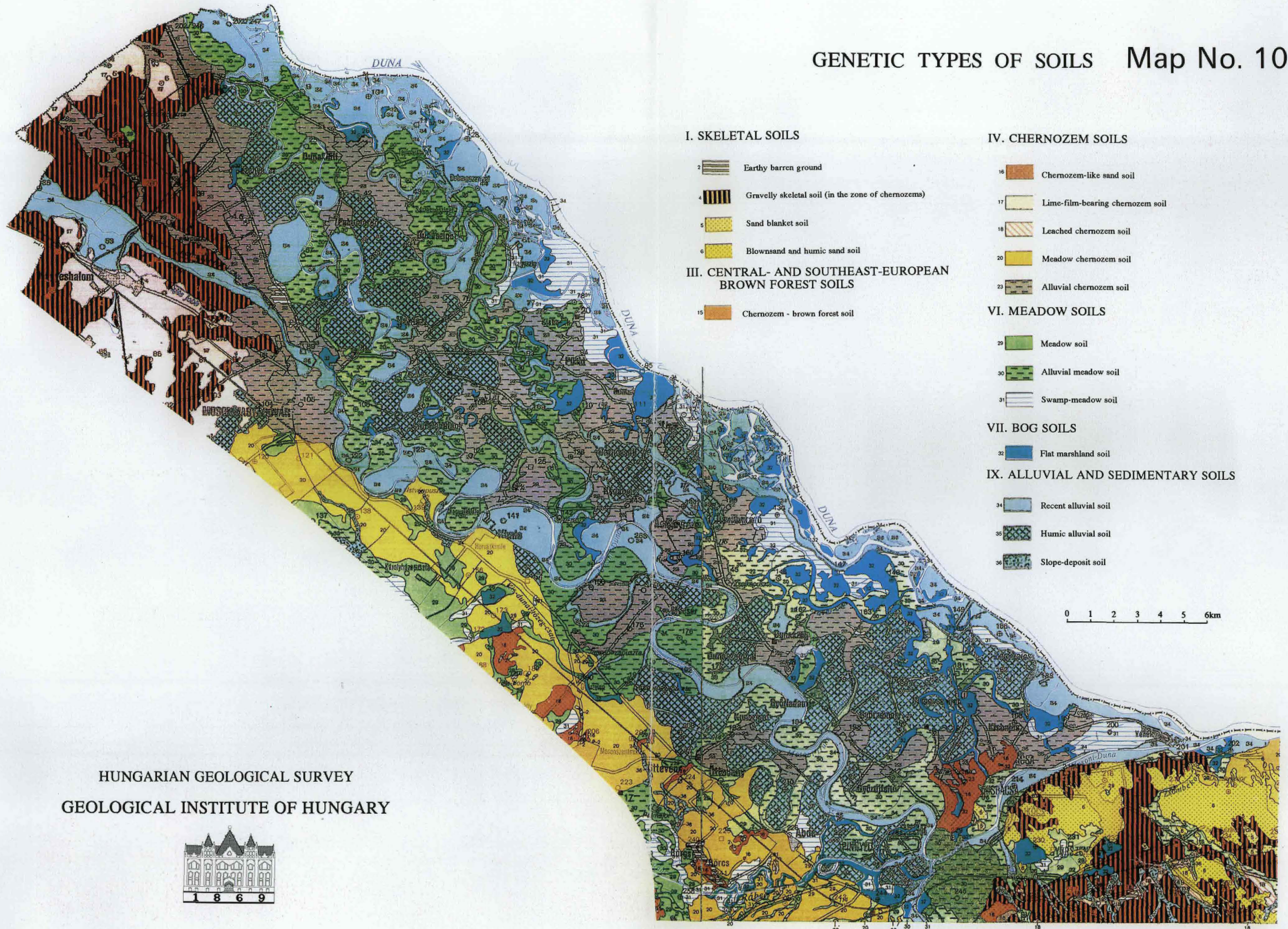
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Data: Danube Environmental Monitoring and Information System

GENETIC TYPES OF SOILS Map No. 10



I. SKELETAL SOILS

- 2 Earthy barren ground
- 4 Gravelly skeletal soil (in the zone of chernozems)
- 5 Sand blanket soil
- 6 Blowsand and humic sand soil

III. CENTRAL- AND SOUTHEAST-EUROPEAN BROWN FOREST SOILS

- 15 Chernozem - brown forest soil

IV. CHERNOZEM SOILS

- 16 Chernozem-like sand soil
- 17 Lime-film-bearing chernozem soil
- 18 Leached chernozem soil
- 20 Meadow chernozem soil
- 23 Alluvial chernozem soil

VI. MEADOW SOILS

- 29 Meadow soil
- 30 Alluvial meadow soil
- 31 Swamp-meadow soil

VII. BOG SOILS

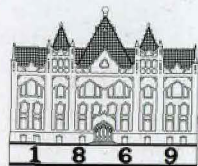
- 32 Flat marshland soil

IX. ALLUVIAL AND SEDIMENTARY SOILS

- 34 Recent alluvial soil
- 35 Humic alluvial soil
- 36 Slope-deposit soil



HUNGARIAN GEOLOGICAL SURVEY
GEOLOGICAL INSTITUTE OF HUNGARY



Map. No. 11

HUNGARIAN GEOLOGICAL SURVEY
EÖTVÖS LORÁND
GEOPHYSICAL INSTITUTE



Founded in 1919



Map compiled in the DANREG project, using the interpretation of the vertical electric soundings, measured by Slovak and Hungarian field geophysical parties. Upper aquifer was characterized by medium specific resistivity and low apparent polarisation.

Thickness map of the near-surface aquifer
showing the extent and the thickness of the Quaternary coarse gravel complex

Map No. 12 Thickness Map of the Main Aquifer.

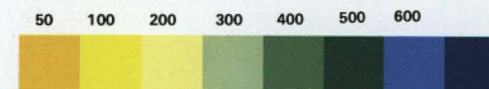
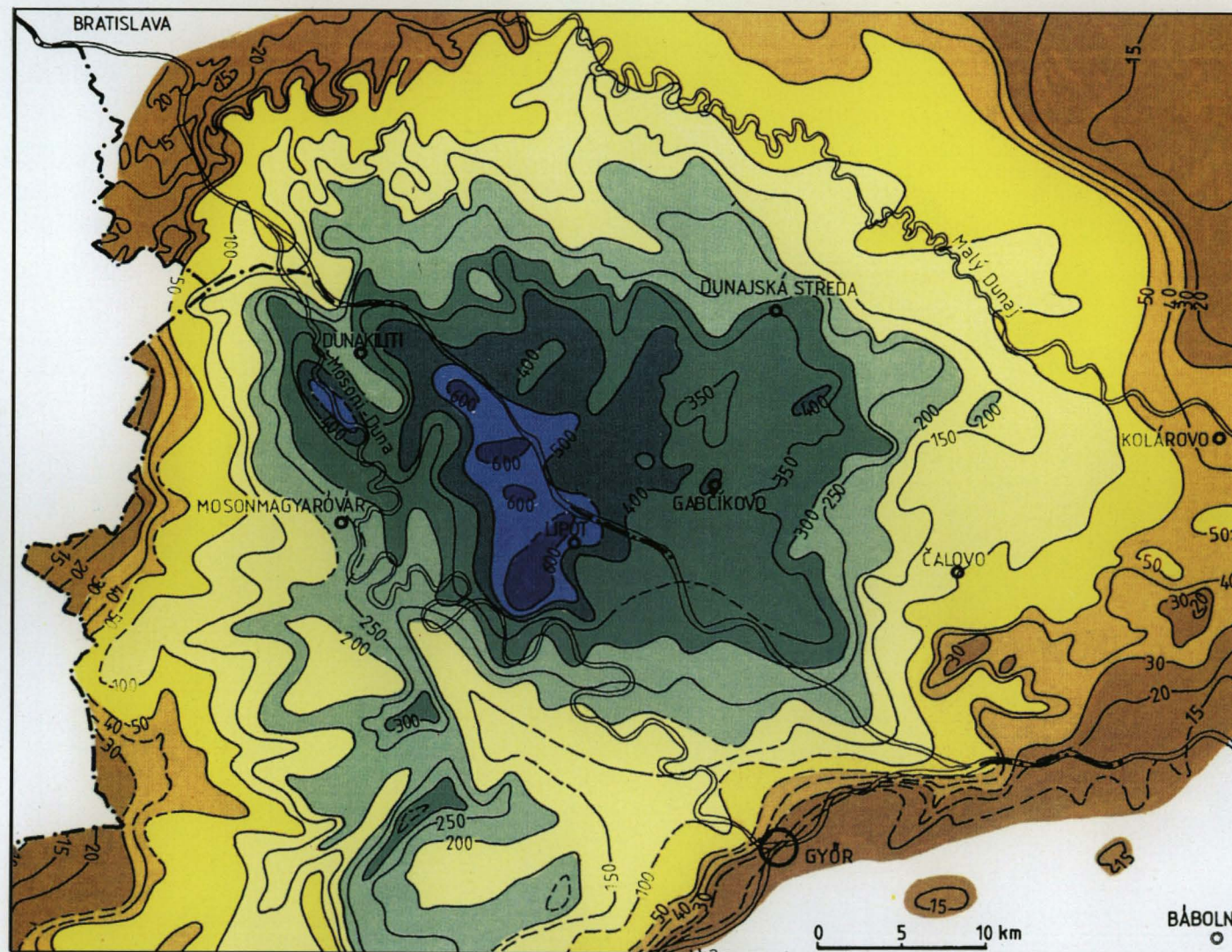
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HUNGARIAN GEOLOGICAL SURVEY
EÖTVÖS LORÁND
GEOPHYSICAL INSTITUTE



Founded in 1919

Map compiled in the DANREG project,
using the interpretation of the vertical
electric soundings, measured by Slovak
and Hungarian field geophysical parties.



Thickness map of the main aquifer

showing the extent and the thickness of the Quaternary gravel/sand complex, containing the biggest underground fresh-water source of Central Europe

Photo 1 – Construction of Variant C. (Closure of the Danube at Cunovo)

Photo 2 – Construction of Variant C. (Closure of the Danube at Cunovo)



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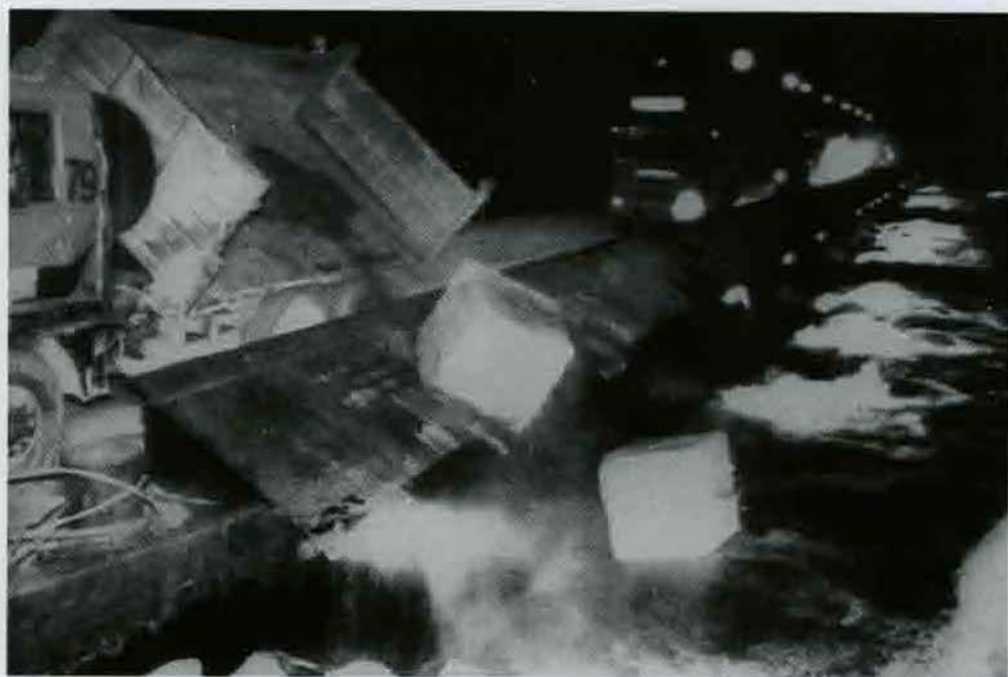


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Akadémiai Nyomda, Budapest
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