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Ground water regime monitoring

Danube Monitoring Scientific Conference Publication, Slovak Section, chapter:

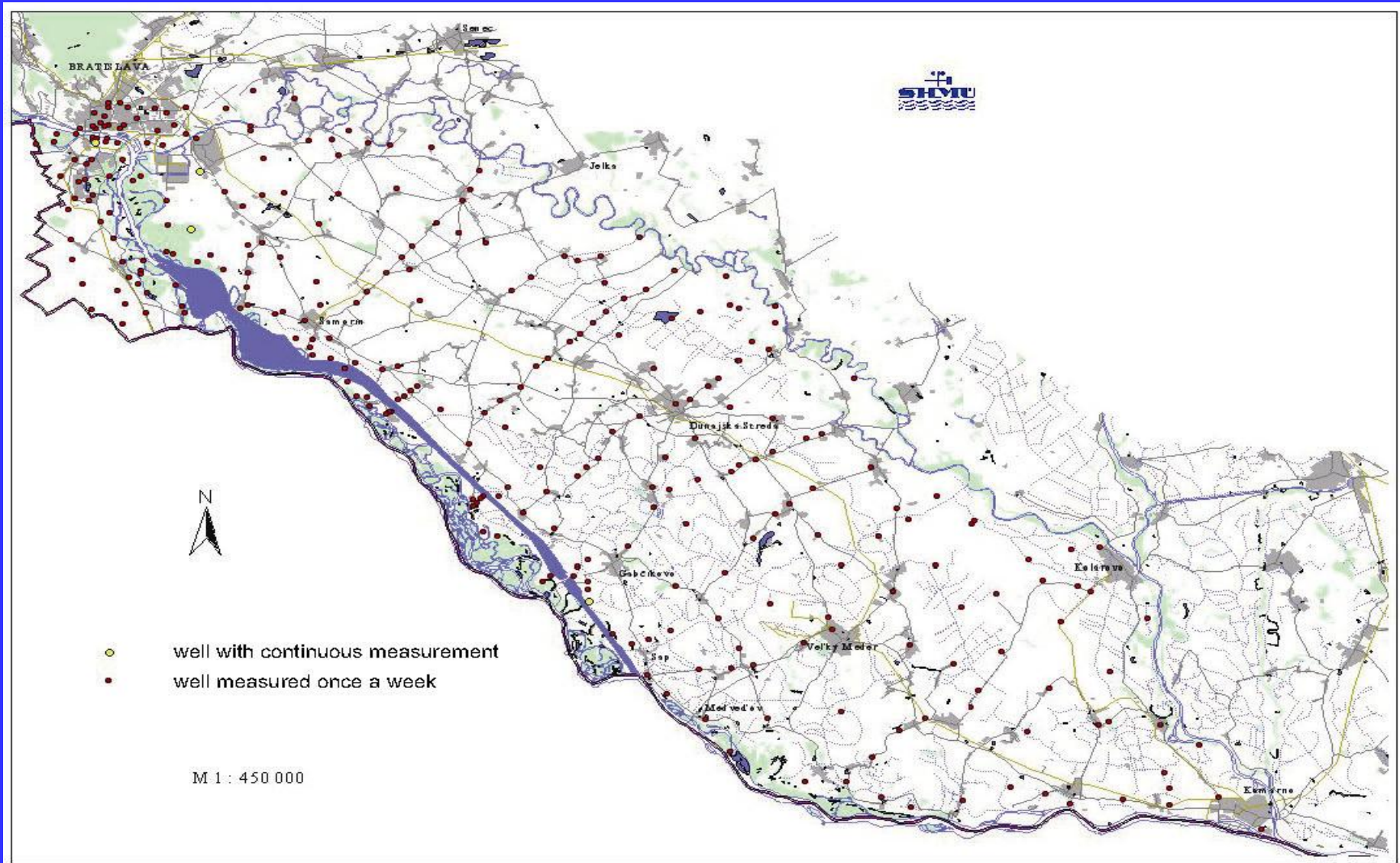
V.1.8. Ground water levels and soil moisture

Zoltán Hlavatý, Ľubomír Banský

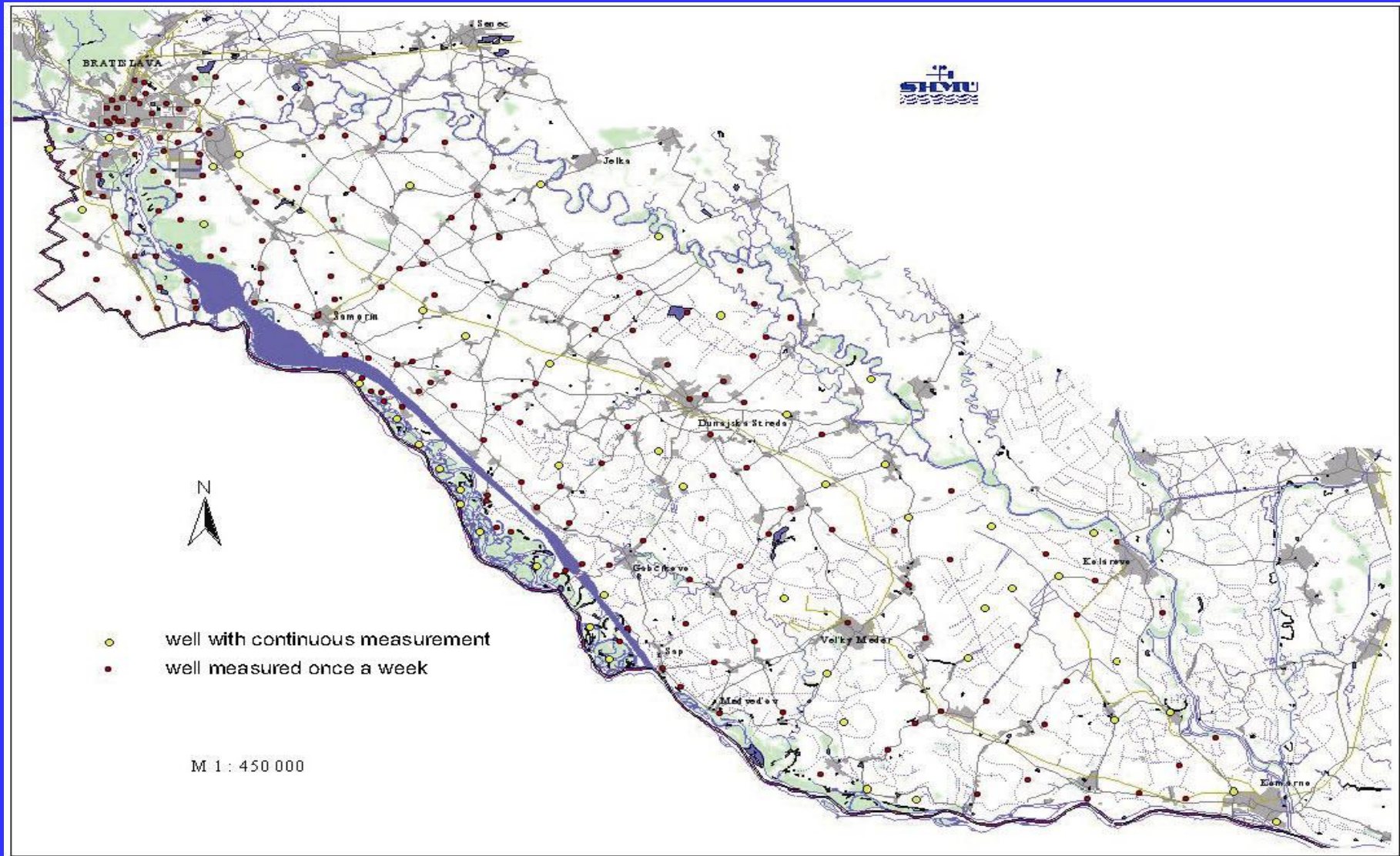
V.1.9. Monitoring of ground water regime in the area of the Gabčíkovo Project

Ján Gavurník

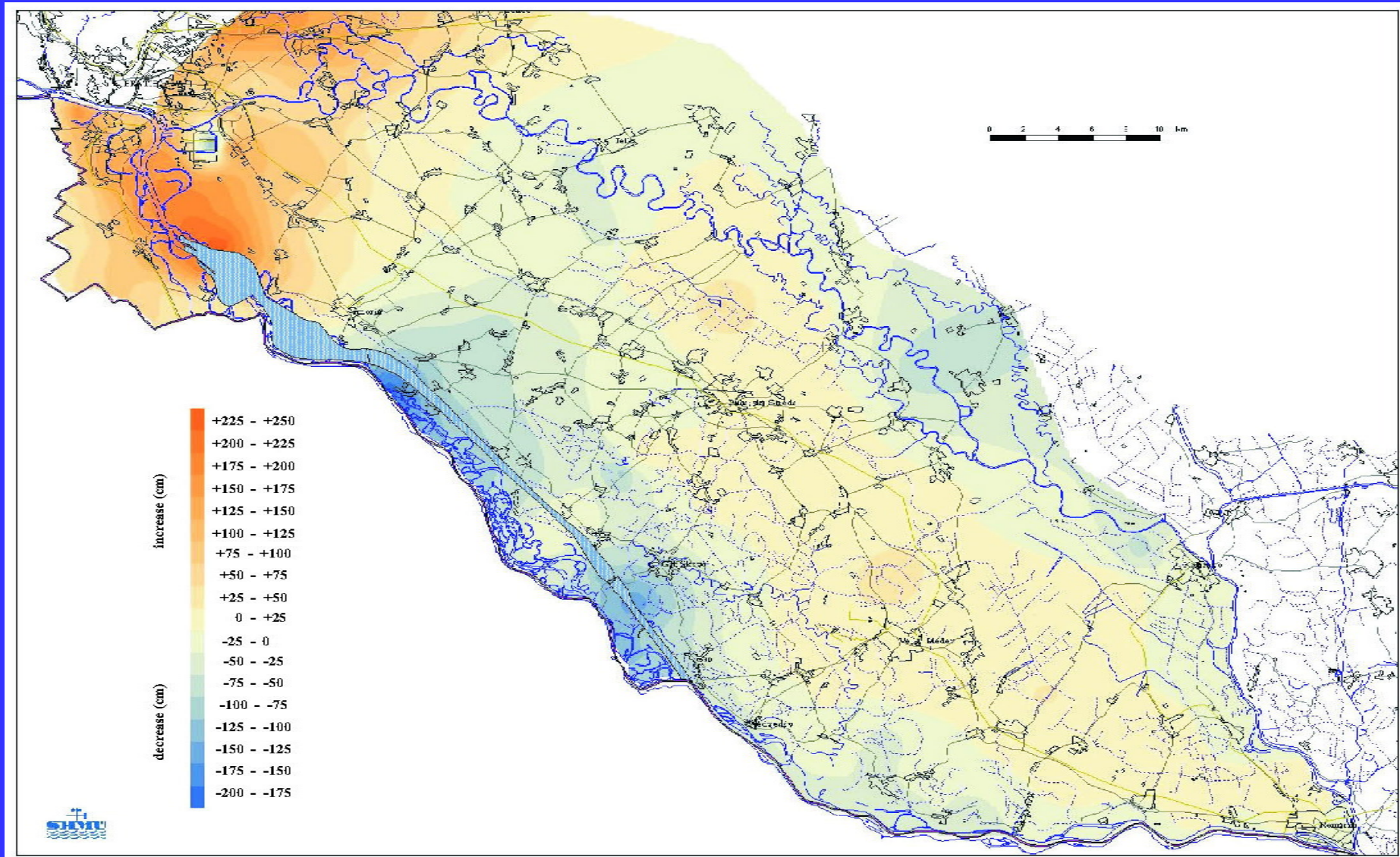
Monitoring network of observation objects of ground water levels in 1987



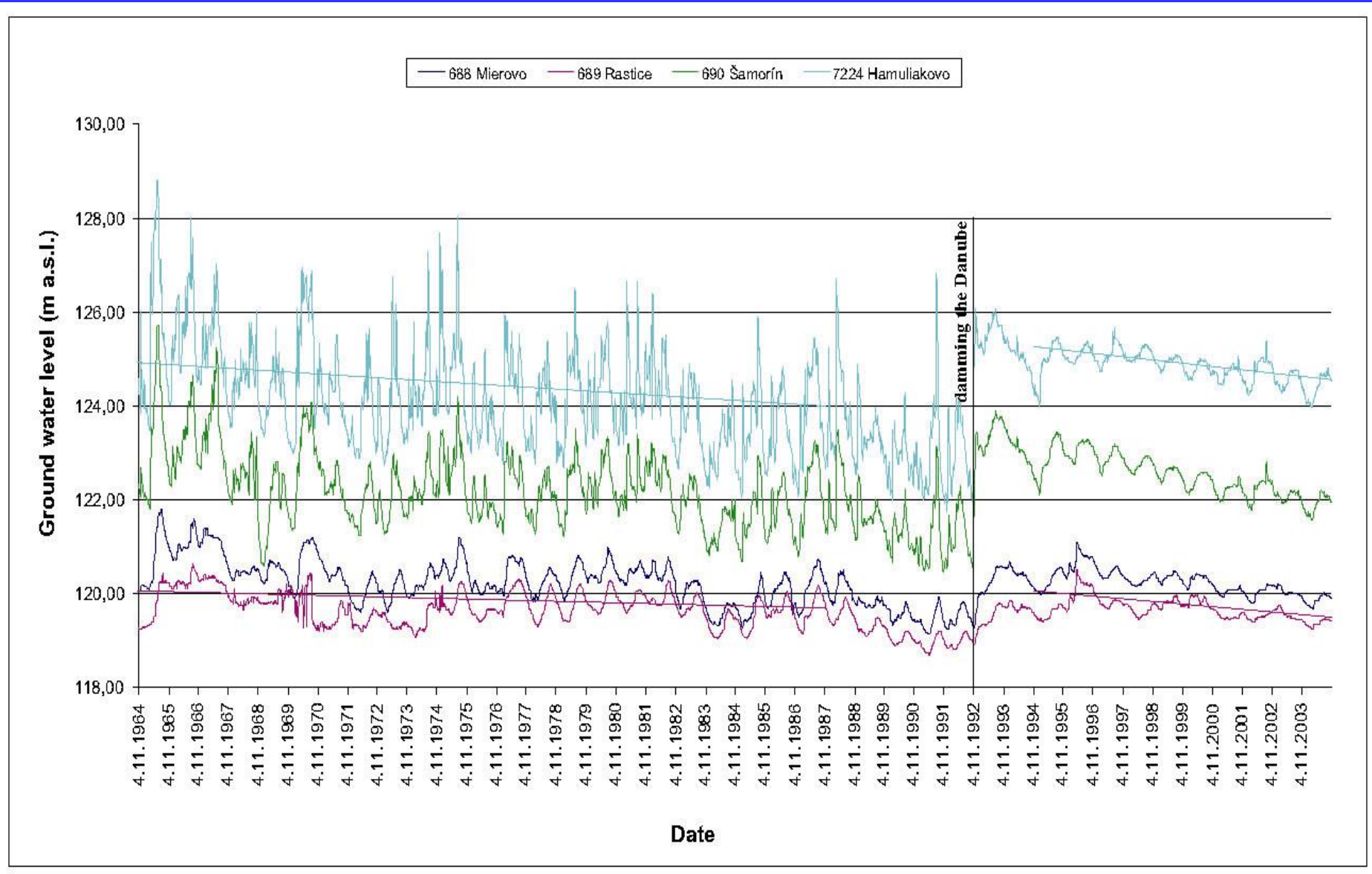
Monitoring network of observation objects of ground water levels in 1987



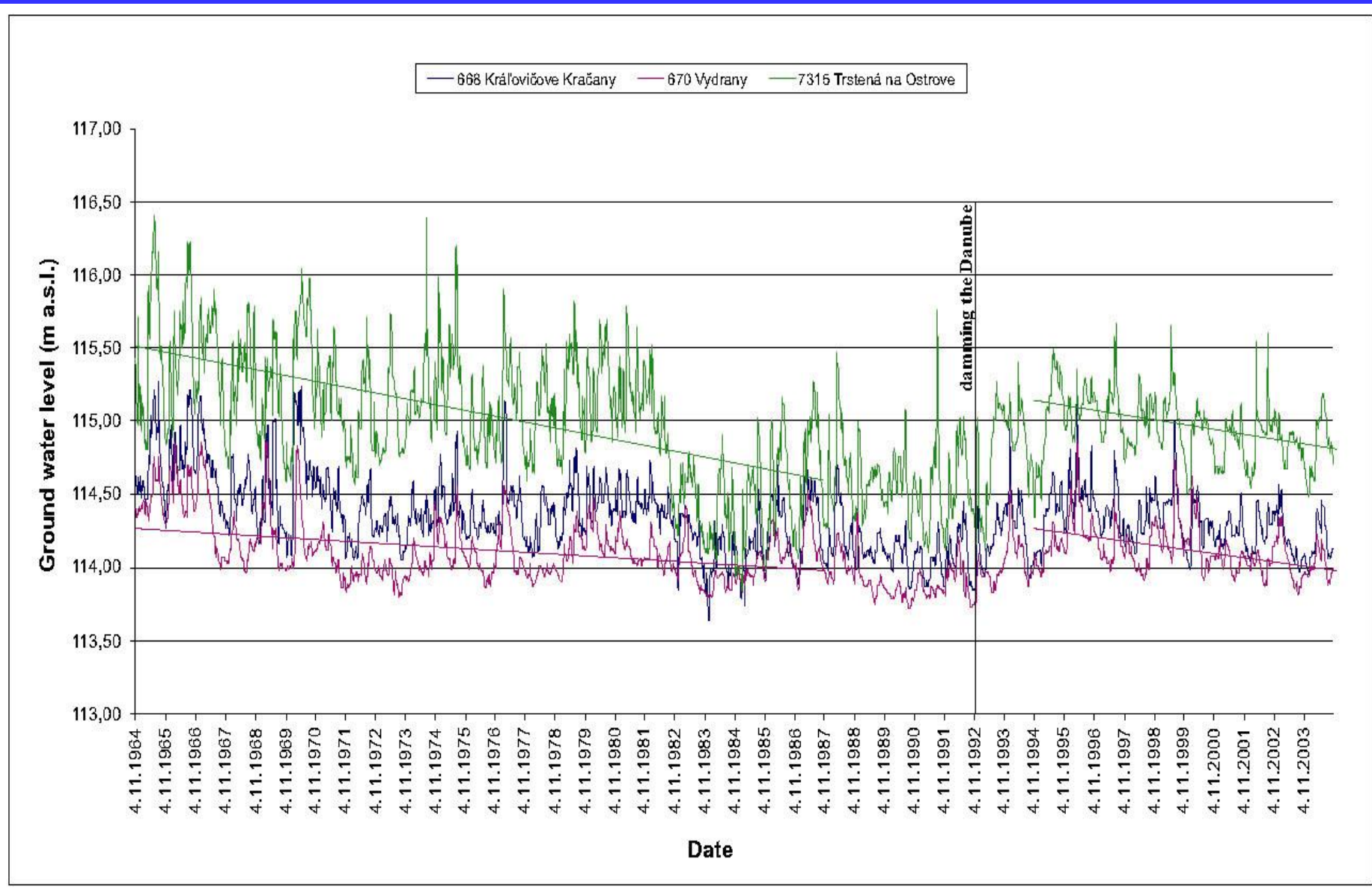
Ground water level differences between period 1995-2004 and period 1967-1987



Time period and trends of ground water levels in 1965-2004



Time period and trends of ground water levels in 1965-2004



Summary

- Monitoring of the ground water levels continues in an unchanged extent and smaller changes
- There is increase of objects equipped with automatic devices
- Distribution of the objects in the territory is optimal
- Increased groundwater levels occurred in the surroundings of Bratislava and in the upper part of the Žitný ostrov downstream up to Šamorín and the Little Danube
- Decreases of ground water level were recorded in between the entrance into the bypass canal and mouthing of the tailrace canal into the Danube (largest decrease at Dobrohošť and Gabčíkovo)
- Reduction of amplitudes of ground water level fluctuation occurred along the Danube, Čunovo reservoir and bypass canal
- An increase of amplitudes appeared along the tailrace canal and the Danube downstream up to Čičov