



Historical cadastral maps of Budapest: a key to understand the urban hidrology and geology of the city

G. Timár (1), J. Mádl-Szőnyi (1), S. Biszak (1,2), V. Hídvégi (3), Gy. Gábris (1), E. Pulay (1), A. Mindszenty (1), Zs. Medzihradzky (4), É. Izsák (1), and T. Rácz (5)

(1) Eötvös University of Budapest, Institute of Geography and Earth Science, Budapest, Hungary (timar@ludens.elte.hu, +36 1 3722927), (2) Arcanum Database Ltd, Budapest, Hungary, (3) Archive of the City of Budapest, Hungary, (4) Museum of Natural Sciences, Budapest, Hungary, (5) Budapest Drainage Works Ltd., Hungary

The cadastral surveys of Budapest started in 1785 with the core of Pest and its surroundings, the eastern part of the twin cities. Other parts (the later districts) of the city have been surveyed and high-scale maps of them issued in the first part of the 19th century. Systematic surveys were made and cadastral sheet series were compiled in 1871 and 1872, separately in Buda and Pest (the city parts in the western and eastern bank of the Danube). The scale of these sheets were 1:720. The city has been unified in 1873 and shortly after it a unified cadastral series has been issued in 1878, which was the very first map in Hungary in metric system. Overview cadastral maps in scale of 1:5000 have been issued later in 1895, 1908 and 1937, respectively.

The early cadastral maps show the near natural watercourse network of Budapest in striking details. The old creeks were later filled and replaced by the artificial city drainage. Natural pools and contemporary lakes were mapped in the plains of Pest and the old water sources were displayed in detail in the Buda Hills. These datasets to be presented in the poster, are important basic data for the urban geologist. Moreover, in some cases, they provide explanations to hydrological „events” occurring in association with the new underground constructions in Budapest.