

MAP OF THE SURFACE COVERING DEPOSITS OF THE TISA RIVER CATCHMENT AREA OF TRANSYLVANIA

I. KALMÁR¹ P. KARDEVÁN¹

Abstract: *In the Tisa River Project a great number of field and archive data were collected. The modeling of the surface water flow demands the knowledge of the physical state of the surface layer which receives the precipitations, i.e. the surface covering sediments. For calculating the terms of the infiltration and run-off equations, the use of the USDA-classification of the unconsolidated sediments was recommended. Knowing the alteration processes, using the Quaternary and pedologic maps, we converted the data of the geological (chronostratigraphical) maps in Transylvanean catchment area, in 12 granulometric terms of the clay-silt-sand ternary diagram. In our paper, examples of this kind of transformations will be presented, in areas situated on plain, between hills and in mountains with complicate geology and tectonics, too. The whole map covers more than 60.000 sqkm, and now, together with the topographical, environmental and meteorological data, serves for processing the catchment model of the Tisa river.*

Key words: *Tisa River, Catchment Area, Geologic map, Surface covering sediments, Grain size classification, Transylvania, Someş , Criş , Mureş, Carpații Orientali, Munții Apusen, Carpații Meridionali.*