

On a GIS Based Hydrological Model for Flow and Contamination Transport in Lake Kinneret Watershed

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Abstract: This paper describes the efforts and current achievements of developing a GIS based hydrological model for flow and contaminants transport within Lake Kinneret watershed. The proposed model is built of hydrological “input-output” physical response blocks for routing rainfall-runoff water quantity and quality in sub-watersheds, coupled further with a delineated GIS database. An illustrative example of the model capabilities is demonstrated.

Keywords: Watershed, Contamination, GIS, Model, Surface Hydrology, Groundwater Hydrology.