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Channel Characteristics and Morphometry of a Part of Umtrew River, Meghalaya

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Abstract: Morphometry incorporates quantitative study of the area ,altitude,volume, slope profiles of a land and drainage basin characteristics of the area concerned. Fluvial geomorphology includes the consideration of linear, areal and relief aspects of a fluvially originated drainage basin. The linear aspect deals with the hierarchical orders of streams, numbers, and lenghts of stream segments and various relationship among them. The areal aspect includes the analysis of basin perimeters, basin shape, basin area, and related morphometric laws. The relief aspect incorporates besides hypsometric, climographic and altimetric analysis, the study of absolute and relative reliefs, relief ratios, average slope, etc. In this paper we have analysed the relationship among stream velocity, channel shape, sediment load, channel width, channel depth, etc.

Keywords: morphometry, hydraulic geometry, Umtrew river, Meghalaya

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