

Abstract

The bachelor thesis is engaged in morphometric characteristics used for valley nets analysis and comparing values of this characteristics for individual types of valley networks. Based on the search of the books and articles there was created a summary of morphometric characteristics and then, for compare purposes, there were selected these features: weighted bifurcation ratio, mean length ratio, drainage density, drainage texture, form factor and circularity ratio. These features were calculated for real types of valley networks in different parts of the world. The data were obtained from vectorization of these nets in ArcGIS programme. In conclusion there are results confronted with morphometric analysis of selected types of valley networks in Czech republic.

Key words: valley, valley network, types of valley nets, geomorphometry, morphometric analysis, morphometric characteristics, bifuraciton ratio, lenght ratio, drainage density, drainage texture, form factor, circularity ratio