Analysis of Accuracy of Streams and Watershed Divides Contained in the Geographic Databases of the Czech Republic

Abstract
The aim of this work is to evaluate positional accuracy of stream lines and watersheds in geographical databases of the Czech Republic. Data are compared in several geomorphologically different areas and the influence of terrain topography on positional accuracy of lines is also studied. The theoretical part of this work describes methods of stream lines and watersheds delimitation and methods designed for comparison of positional accuracy of lines. Furthermore, methodology of work involving stream lines and watershed delimitation in DTM (digital terrain model) by ArcHydro Tools and comparison of these lines with the lines in available databases is described. The data used for construction of DTM were obtained by Airborne Laser Scanning.

Key words: watershed, stream, position accuracy, DTM