

Abstract

The size of benthic organisms is one of many possible factors affecting resultant concentrations of metals accumulated in organisms from surrounding water environment. Partial information is presented in research publications which state this dependency with different conclusions. So far the dependence was not unequivocally interpreted. Relationship between concentration and body size may differ among various metals and also between individual species of macroinvertebrates. This bachelor thesis is a research of professional literature and its result is analysis of existing knowledge of types of this dependency and comparison of individual representatives of aquatic invertebrates and individual metals. Significance of the trend of dependence as a factor having the influence on the final interpretation of data on the concentrations of monitored substances, especially heavy metals is to be assessed. Result of this work should facilitate the interpretation of data for future analysis of heavymetals in aquatic invertebrate organisms.

Keywords: bioaccumulation, heavy metals, macroinvertebrates