

Hydrological Regime of Lake Paliastomi

Ilia Matchavariani

E-mail: ilia.machavariani4515@ens.tsu.edu.ge

Department of Geography, Faculty of Exact and Natural Sciences Ivane Javakhishvili Tbilisi State University
3, I. Chavchavadze Ave., Tbilisi, 0179, Georgia

Among the lakes of Georgia, Lake Paliastomi is particularly distinguished by its hydrological regime. Here, a unique ecosystem is formed as a result of the interaction of two environments, sea and land waters. The lake experiences both natural and anthropogenic impacts. Therefore, it is important to study the hydrological regime of Lake Paliastomi and the problems associated with it. The study is also complicated by the fact that information about the hydrological regime of the lake is quite scarce and was published in the last century.

The presented master's thesis discusses the physical and geographical conditions of the feeding area of Lake Paliastomi, the Black Sea waters adjacent to the lake and the processes occurring in it, as well as the lake's own level regime, thermal regime, etc. The problems related to the lake's water ecosystem, namely salinization, eutrophication, etc. are also discussed. Recommendations for the preservation of the lake's environment and the stability of the hydrological regime are presented as conclusions.