

Petrology and geochemistry of the Klich gabbro-diorite intrusive

Kristine Vardanashvili

qristine.vardanashvili@tsu.ge

Department of Geology. Ivane Javakishvili Tbilisi State University, Tbilisi, University str.#2

The Klich gabbro-dioritic intrusive participates in the make-up of the crystalline core of the Greater Caucasus and is exposed in the limits of the Pass subzone of the Main Range zone. The exposure of the intrusive is fixed on the territory of Upper Abkhazia, in the river Klich gorge (at the head waters of the river Kodori), covering about 10 km.

The major target of the research was a detailed and complex geological, petrological-mineralogical and geochemical study of the Klich intrusive. Developed in its contact zone felsites have been studied as well. Based on modern and new analytical data has been carried out petrological-mineralogical, geochemical and isotope-geochronological characteristic of metamorphic and magmatic processes that took place in the study area. Have been determined geodynamic conditions of the intrusive formation and fixed areas of felsite distribution. Physical-chemical features of the latter have been defined as well.