



Characteristics of Xenoliths in the East Slovakian Neogene Volcanites

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Abstract

The East Slovakian Neogene volcanic bodies contain mostly crustal xenoliths of various types. The chemical and mineral composition of the xenoliths, along with that of some enclaves, was studied through the use of CHA, XRD and EMPA. Xenoliths are rare in acid volcanic rocks, but abundant in intermediary andesites or basaltic andesites. The rhyodacites from the Zemplinicum tectonic unit rarely contain magmatic enclaves with the features of argillitization, silicification and K-metasomatism. Extrusive andesite bodies in the Slanské vrchy Mts. are typical for xenoliths of sedimentary and metamorphic origin, but some magmatic enclaves were found as well. The pre-Tertiary Ca - skarnic xenoliths with boron-silicates (danburite, datolite) and cordierite hornfels are also interesting.

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