

**PECULIARITIES OF MATERIAL COMPOSITION OF SEDIMENTARY
AND VOLCANIC-SEDIMENTARY ROCKS IN PHU-QUI AND KATUIK
VOLCANIC ISLANDS (VIETNAM SHELF)**

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Sedimentary and volcanic-sedimentary rocks from natural exposures on the Phu-Qui and Katuik volcanic islands (Vietnam Shelf) have been analyzed for their elemental composition. Mineralogically and petrochemically, sandstone rocks of Phu-Qui Island are petrogenic compounds and refer to subarkose. Judging by the prevalence of quartz and feldspar, by the dominance of sialic association in the heavy mineral fraction as well as by the pattern of major, minor and rare-earth element distribution, the main sources of clasts were intrusive and metamorphic rocks of the mature continental crust, and sedimentation settings correspond to passive continental margins.

The Middle Pleistocene volcanic-sedimentary rocks of the Phu-Qui – Katuik group of islands are composed of pyroclastic material of mafic composition close to the basalts from trachybasalt-trachytic and alkaline basaltic series of Vietnam, which possess intraplate characteristics and relate to the existing here extension settings. The sedimentation occurred in subaerial environment near the centers of volcanic eruptions.

Keywords: Phu-Qui, Katuik, Vietnam Shelf, sedimentary, volcanic-sedimentary rocks.