Volcano Samsar /Djavakheti Upland/:morphology, composition and the products of postvolcanic hydrothermal mineralization

Mariam Akhalkatsishvili, Bezhan Tutberidze

mariam.akhalkatsishvili@tsu.ge

DepartmentofGeology, Faculty of Exact and Natural Sciences, Iv.JavakhishviliTbilisiState university 13, University st., Tbilisi, Georgia, 0186

Volcano Samsar present one of the most major poligenic volcano ii the area Javakheti upland, also known as stratovolcanoes. It is located on the Samsari volcanic Ridge, at a height of 3287,7 m.a.s.l. The volcano Samsar has not a preserved summit crater, perhaps, it was destroyed destroyed at the final stage of volcanic activity. According to absolute age the formation of Samsati masiv of Late Miocene-Early Pliocene from repeated multi eruptions strombolian type activity.

in the area of the volcano Samsari clearly observed alternation by repeated eruptions of lava and pyroclastic products. Dominant is lava eruption comparison with pyroclastic materials.

Composition eruption products represented by a wide range: andesite, dacite, rhyolite, of which wide-spread dacite. The final stage of volcanic activity of Volcano Samsar the northeastern slope was formed Caldera diameter 3-4 km whit steep south-western slop.

In the area of the Samsari volcanic center, we were the first to discover and describe the products of the processe of post-volcanic hydrothermal mineralization such as: hematite, parallel banded opal, alunite. cristobalite, selenite, jarositeand mixed-layered silicates of the chlorite-montmorillonite series.