

**PETROGENESIS OF THE HIGH POTASSIUM IGNIMBRITE RHYOLIT-DACITE  
OF THE TASHIR REGION (ARMENIA)**

**Gevorgyan R.G., Demirchyan A.R, Lorsabyan T.K.** (geograph-geol. dep. YSU)  
*rgev@ysu.am*; fax: (+37410) 55-46-41; phone: (+37410) 57-81-35

---

*Key words: petrochemical, geochemical characteristics, high potassium ignimbrite rhyodacite rocks of the Tashira region, Armenia*

The regions where widespread high-potassium containing Rhyolit-Dacite lava is located in the far north part of Armenia (region Lory, Tashir). Earlier here was found and investigated tufts containing abnormal high amount potassium (10-12 %  $K_2O$ ). It was investigated petrographic, petrochemical geochemical characteristics and petrologic features of forming high-potassium ignimbrite Rhyolit-Dacite rocks. Based on special diagrams it was shown evolution ways of composition of initial alkali-earth melts when alkalinity was sharply increased due to potassium fluids.

Petrological and geochemical features of high-potassium containing Ignimbrite Rhyolit-Dacite lavas and tufts as well as series of regional alkali-earth rocks located in Tashir may be completely explain based on acid-base interaction theory of D.S. Korjinsky.

---

*Electronic Scientific Information Journal "Vestnik Otdelenia nauk o Zemle RAN" № 1(27) 2009*

*ISSN 1819 – 6586*

*Informational Bulletin of the Annual Seminar of Experimental Mineralogy, Petrology and Geochemistry – 2009*

*URL: [http://www.scgis.ru/russian/cp1251/h\\_dgggms/1-2009/informbul-1\\_2009/magm-8e.pdf](http://www.scgis.ru/russian/cp1251/h_dgggms/1-2009/informbul-1_2009/magm-8e.pdf)*

*Published on July, 1, 2009*

*© Vestnik Otdelenia nauk o Zemle RAN, 1997-2009*

*All rights reserved*