

POTASHIC ALKALINE BASALTOIDS OF THE MIDDLE TIEN-SHAN

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Within structural-formation zones of the Median Tien-Shan (Chatkal and Kourama) the alkaline magmatic processes is presented by the Late Paleozoic alkaline-basaltoid gradation of a potashic series.

In respect to the conditions of formations they are subdivided into subvolcanic, vent funnel and lava facies. Potashic basic rocks appear to be close to cocval assemblages presented by shoshonite, tephrite-leucitite, lamprophyre series widespread in the region. Both rock groups are enriched in barium, fluorine, lithium, strontium, chromium, nickel. As to mineralogical and chemical composition and petrochemical peculiarities, some of their varieties are close to high-grade potashic rocks of an orendite series (lamproite): Spain (verites, fortunites), low-grade titanium lamproites of the Aldan shield and Kamafugities of Uganda and Italy. The Late Paleozoic alkaline-basaltoid volcanic processes of the Middle Tien-Shan is estimated to be varied, but its special feature is the connection of potashic alkaline and subalkaline rock series. The latter event shows rather high level of potashic magma generation.