

COMPOSITION OF CRETACEOUS VOLCANITES OF ALAZEY HIGHLAND (NORTH-EAST OF YAKUTIA)

N.V. Tsukanov¹, S.G. Skolotnev²

¹*FGBUN Institute of Oceanology RAS, Moscow, 11799; nvts_ov@rambler.ru*

²*FGBUN Geological institute RAS, RAS, Moscow, 117997; sskol@mail.ru*

New data on Cretaceous volcanites developed in Alazey Plateau, Kolyma-Indigirka Orogene of North Eastern Russia show significant difference in their composition. It allows us to suppose that these rocks were formed in different geodynamic regimes. Studied igneous rocks are divided into two groups. Formations belonging to the first group relate to differentiated series (from basaltic andesite to dacites and rhyolites) formed within the volcanic belt. Volcanites from the second group relate to tholeiitic series and were formed in another geodynamic environment associated with extension and rifting.

Keywords: tholeiitic basalts, volcanic belts, magmatism, geochemistry, rifting.