

EOCENE MAGMATISM OF THE NORTHERN SEGMENT OF THE KRONOTSKY PALEOARC, KAMCHATKY MYS PENINSULA, KAMCHATKA

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The article presents new data on magmatic rock composition from the Stolbovaya formation, Kamchatsky Mys Peninsula. The studied rocks belong to high alumina tholeiitic island arc series and their geochemical characteristics are identical to those from Kronotskaya formations in Kronotsky Peninsula. Magmatic-sedimentary complexes of the Stolbovskaya formations were deposited within the volcanic archipelago of the Kronotsky volcanic arc. Geochemical and isotopic data from the studied rocks give evidence that they were formed from a depleted mantle source. The certain observed differences in Eocene rock composition from Kamchatsky Mys and Kronotsky peninsulas are likely caused by differences in fluid regime.

Keywords: basalts, dolerites, island arcs, high alumina tholeiitic basalts, magmatic source.