

Temporal changes of the distribution and chemistry of volcanism since middle Miocene in Chokai-Kurikoma area, Northeast Japan

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The purpose of our investigation in Chokai-Kurikoma area is to obtain detailed information about the spatial and temporal distribution of volcanism since 20 Ma within one of the volcanic fields in the Northeast Japan arc. In the area, we compiled the distribution and stratigraphy of igneous rocks since 20 Ma, from available literature. We also determined the ages and made chemical analyses of igneous rocks. The results of our investigation can give useful information about the temporal changes in the ascendable depth and extent of mantle diapirs within the mantle wedge.