

## Geology and petrochemistry of the Early Cretaceous igneous rocks around Hachinohe, North Kitakami Belt, Japan

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Lower Cretaceous Harachiyama Formation around Hachinohe, Kitakami Mountains. The Harachiyama Formation consists mainly of hypersthene-olivine-augite basaltic and volcanic breccia, dacitic sheet, augite dacitic volcanic breccia, and olivine-augite basaltic lava in ascending order. These volcanic rocks, associated. These occurrences of the volcanic rocks indicate their submarine origin. Only the Harachiyama volcanic rocks are made up of bimodal association of tholeiitic basalt and calc-alkaline basalt among the Lower Cretaceous igneous in Kitakami belt. The basalts show similar petrochemical characteristics to those from the Rebun-Kabato belt, Hokkaido. On the other hand, petrochemical features of these rocks are not resemble to those from the Lower Cretaceous igneous rocks in the other Kitakami belt.