

## Estimation of primary magma composition of an alkali basalt from Rishiri Volcano

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Primary magma composition is commonly estimated from a slightly evolved volcanic rock by assuming homogeneous fractionation, though the actual magma may have been differentiated through boundary layer fractionation in a magma reservoir. By utilizing the numerical model of magmatic differentiation considering boundary layer fractionation, a plausible primary magma composition is estimated for an alkali basalt lava erupted from Rishiri Volcano, Japan, which is documented to have been differentiated with boundary layer fractionation.