

Melt inclusions in phenocrysts in the central cone pumice (CCP-1) of Hakone Volcano – Sulfur, chlorine and H₂O contents

Yoshiaki Yamaguchi[1]; Ryohei Suzuki[2]; Yasushi Ohta[2]

[1] Department of Geology, Shinshu Univ.; [2] Geology, Shinshu Univ

Microprobe and FT-IR studies were made for melt inclusions in phenocrysts in the central cone pumice (CCP-1) of Hakone Volcano. Textural observations and microprobe analyses reveal that olivine phenocryst was derived from mafic-endmember magma and trapped sulfur-rich mafic melt, and orthopyroxene, clinopyroxene and plagioclase include sulfur-poor felsic melt. The olivine-hosted melt inclusions occasionally contain numerous small bubbles and the olivine phenocrysts probably grew from vapor-saturated melt.