

**FLUORINE BEHAVIOR IN TRACHYTE-PHONOLITE
ROCKS, SUSWA VOLCANO, CENTRAL KENYA
PERALKALINE PROVINCE (CKPP), EAST AFRICAN RIFT**

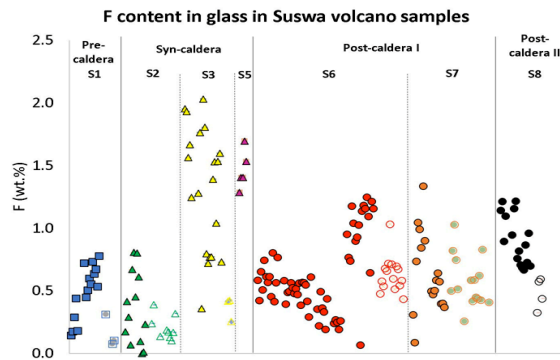
VANESSA VERÓNICA ESPEJEL-GARCÍA¹

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We report fluorine concentrations in matrix and melt inclusion glasses for Suswa, an active [1,2] volcano in the Central Kenya Peralkaline Province. Elemental chemistry for glasses, whole-rock, and minerals are originally reported in [3,4]. We [5, 6] model processes as prolonged, mostly closed system fractional crystallization for pre- and syn-caldera units followed by AFC, mafic magma recharge and mixing for post-caldera units. Superposed on these processes was carbonatite liquid immiscibility [7]. As shown below, F content for matrix (filled symbols) and melt inclusion (open symbols) glass does not exceed 1 wt %, while the matrix glass for units with immiscibility (S3, S5) have greater concentrations.



References

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