Paroxysmal eruptions tracked by variations of helium isotopes: inferences from Piton de la Fournaise (La Réunion island)

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**Fig. S1.** Gas contents and isotopes ratios obtained by crystal crushing from lavas and cumulates. (a) TGC (Total Gas Content) vs. $^4$He. TGC variability as a function of the location of magma ponding in the plumbing system (crust, underplating layer, deep melt horizon)$^{10}$: squares for the full ranges of contents. Correlation between TGC and $^4$He contents calculated from the whole dataset. (b) $^4$He/$^{36}$Ar* vs. $^4$He/CO$_2$ with FED (Fractional Equilibrium Degassing) modeling$^{10}$. Grey field for the range of uncertainty related to the primary conditions. Same legend than in Fig. 1 for the samples.