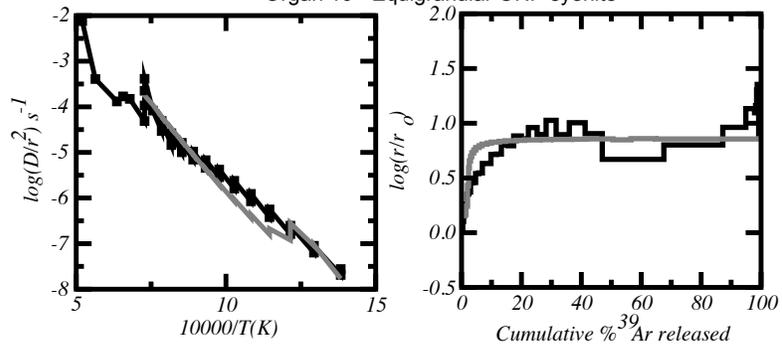


## Data Repository DR4

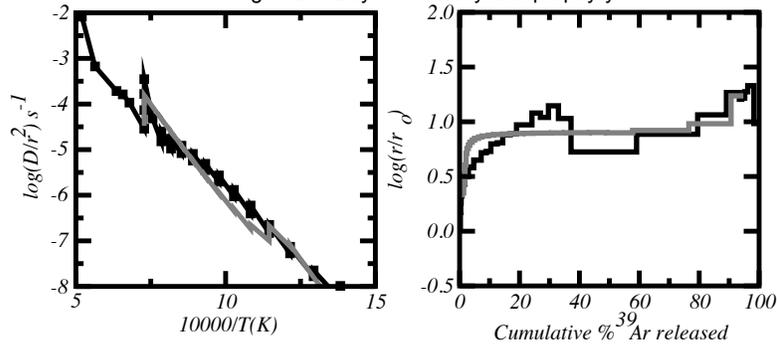
### Supplementary MDD plots for the Organ caldera complex K-feldspar

Data repository DR4 contains the Arrhenius and  $\log(r/r_0)$  plots used for MDD thermal modeling of K-feldspars from the Organ caldera complex. Modeled age spectra and thermal histories are located within the main body of the text. All MDD thermal histories were modeled using algorithms developed by Lovera et al. (1989, 1991). Arrhenius plots are constructed using the heating schedule and the fraction of the  $^{39}\text{Ar}_K$  released for each step.  $\log(r/r_0)$  plots are constructed by fitting an Arrhenius reference line ( $r_0$ ) to the data points on the Arrhenius plot, calculating the deviation of the Arrhenius trend from  $r_0$ , and comparing that to the cumulative  $^{39}\text{Ar}_K$  released. Black lines are the measured data and gray lines are the modeled data.

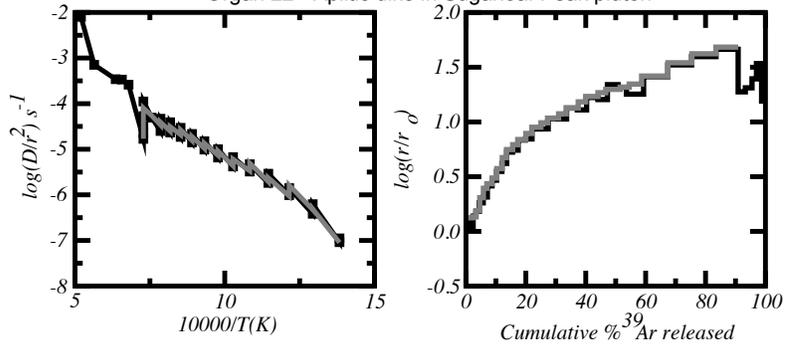
Organ 10 - Equigranular ONP syenite



Organ 21 - Baylor Peak rhyolitic porphyry



Organ 22 - Aplitic dike in Sugarloaf Peak pluton



Organ 31 - Equigranular ONP Qtz. syenite

