

Table DR1 - Summary table of $^{40}\text{Ar}/^{39}\text{Ar}$ analyses from Costa Rica

Sample #	Material	Laboratory ID #	Plateau age $\pm 2\sigma$ (Ma) ^a	MSWD	P %	% ^{39}Ar	Steps	Inverse isochron age $\pm 95\%$ conf. (Ma) ^a	Initial $^{40}\text{Ar}/^{36}\text{Ar}$	MSWD	P %	SF %	Steps	% $^{40}\text{Ar}_{\text{atm}}$ range	Comments
CR01	Basaltic glass	CR1gls	131.0 \pm 3.2	0.41	93	61.0	6-15	130 \pm 11	297 \pm 12	0.48	87	<i>25.1</i>	6-15	26-99	Disturbed age spectrum, high C1 in steps 1-,4-20, steps 2-3 have >10 V ^{40}Ar .
CR03	Basaltic glass	CR3gls	130.0 \pm 4.5	0.41	96	67.8	6-18	136 \pm 11	288 \pm 13	0.33	98	41.0	6-18	35-99	Slightly disturbed age spectrum, high C1 in steps 4-18, steps 1-3 have >10 V ^{40}Ar .

The bold values indicate the preferred ages, and italics indicate statistically invalid values (i.e., MSWD < 0.30, P < 5 %, or SF = < 40%).

^aThe plateau ages are quoted with 2 σ internal errors, and the inverse isochron ages of the plateau steaps are quoted with 95% confidence errors (i.e., internal errors multiplied by $\sqrt{\text{MSWD}}$ and t Student's test with n-1 degrees of freedom).

Abbreviations: MSWD = Mean Square Weighted Deviation, P = probability, SF = spreading factor, plateau age = > 50% total ^{39}Ar , and $^{40}\text{Ar}^{\text{atm}}$ = atmospheric ^{40}Ar .