

SUPPLEMENTARY FILE 3. BK apatite fission track data.

Sample	No. of grains	Fossil track density [10^6 cm^{-2}]	^a Average U [ppm]	^b P(χ^2) [%]	^c Age <i>pooled U</i> [Ma $\pm 1\sigma$]	Central age [Ma $\pm 1\sigma$]	Mean track length [$\mu\text{m} \pm 1\text{se}$]	Std dev.	Dpar [$\mu\text{m} \pm 1$ std dev.]	Std. Dev.
R6865	27	3.510 (4024)	58.1	51.37	163.5 \pm 17.6	178.5 \pm 16.8	12.01 \pm 0.16 (101)	1.61	1.49 (166)	0.18
P80920	3	1.177 (97)	16.9	18.62	125.3 \pm 29.3	132.8 \pm 19.8	-	-	-	-
R23636	8	0.217 (109)	46.1	12.74	9.7 \pm 1.6	9.3 \pm 1.6	-	-	-	-

Nos. in brackets are no. of tracks counted, track lengths measured or Dpars measured.

^a²³⁸U= average uranium content of all grains measured by LA-ICP-MS.

^b P(χ^2) = probability of χ^2 for (n-1) degrees of freedom (Galbraith, 1981).

^c Age pooled U = Pooled mean AFT grain ages calculated from individual fossil track content and ²³⁸U content measured by LA-ICP-MS.