Explanation of electronic supplementary material

Table 1 Analyse table of LA-ICP-MS data of detrital zircons from metagranodiorite of the sample 1 (Weichberg, East Odenwald, MGCZ). Spot size = 30µm depth of crater ~15µm. ²⁰⁶Pb/²³⁸U error is the guadratic additions of the within run precision (2 SE) and the external reproducibility (2 SD) of the reference zircon. ²⁰⁷Pb/²⁰⁶Pb error propagation (²⁰⁷Pb signal dependent) following Gerdes and Zeh (2009). ²⁰⁷Pb/²³⁵U error is the guadratic addition of the ²⁰⁷Pb/²⁰⁶Pb and ²⁰⁶Pb/²³⁸U uncertainty.

^a Within run background-corrected mean ²⁰⁷Pb signal in cps (counts per second)

^b U and Pb content and Th/U ratio were calculated relative to GJ-1 reference zircon ^c percentage of the common Pb on the ²⁰⁶Pb. b.d. = below detection limit.

^d corrected for background, within-run Pb/U fractionation (in case of ²⁰⁶Pb/²³⁸U) and common Pb using Stacy and Kramers (1975) model Pb composition and subsequently normalized to GJ-1 (ID-TIMS value/measured value); ²⁰⁷Pb/²³⁵U calculated using ²⁰⁷Pb/²⁰⁶Pb/(²³⁸U/²⁰⁶Pb*1/137.88) ^è rho is the ²⁰⁶Pb/²³⁸U/²⁰⁷Pb/²³⁵U error correlation coefficient.

^f degree of concordance = 206 Pb/ 238 U age / 207 Pb/ 206 Pb age x 100

Table 2 Analyse table of LA-ICP-MS data of detrital zircons from biotite gneiss of the sample 2 (Weichberg, East Odenwald, MGCZ). For further explanation see Table 1

Table 3 Analyse table of LA-ICP-MS data of the orthogneiss sample 3 ("Schmelzmühle", East Odenwald). For further explanation see Table 1

Table 4 Analyse table of LA-ICP-MS data of the orthogneiss sample 4 (North Böllstein, East Odenwald). For further explanation see Table 1

Table 5 Analyse table of LA-ICP-MS data of detrital zircons from biotite gneiss of the sample 5 ("Schmelzmühle", East Odenwald). For further explanation see Table 1

Table 6 Analyse table of LA-ICP-MS data of detrital zircons from biotite gneiss of the sample 6 (East Böllstein, East Odenwald). For further explanation see Table 1

Table 7 Analyse table of LA-ICP-MS data of detrital zircons from Upper Cambrian sandstone of the sample 6 (Lysogory, Holy Cross Moutain, Trans-European Suture Zone). For further explanation see Table 1

Table 8 Analyse table of LA-ICP-MS data of the orthogneiss sample 8 ("Wiebelsbach", East Odenwald). For further explanation see Table 1

Table 9 Sample localities Odenwald and Holy Cross Moutains (Decimal grad)

ESM 1 Analytical techniques

ESM 2 Uranium – Thorium plot sample 1

ESM 3 Uranium – Thorium plot sample 2

ESM 4 Uranium – Thorium plot sample 3

ESM 5 Uranium – Thorium plot sample 4

ESM 6 Uranium – Thorium plot samples 5, 6 and 7

- ESM 7 U–Pb concordia plots of ca 1.5 Ga age peaks of samples 5, 6 and 7 $\,$
- ESM 8 U–Pb concordia plot of in house standard Orlovice (TIMS /Laser)
- ESM 9 Zircon Tuff age Orlovice
- ESM 10 CL images sample 1
- ESM 11 CL images sample 2
- ESM 12 CL images sample 5
- ESM 13 CL images sample 4
- ESM 14 CL images sample 3
- ESM 15 CL images sample 6