***Supplement 2***

**Part 2. Isotopic analyses results.**

*Khotylev A.O., Mayorov A.A., Khydoley A.K., Ershova V.B., Kalmykov G.A., Khubanov V.B., Chervyakovskaya M.V.* “Granitoid massifs of the Krasnoleninsky arch (Western Siberia): Composition, structure, age and conditions of formation,” *Geotectonics.* no.2 (Supplement 2) (2021). *Geotectonics* © *Pleiades Publishing, Ltd.*

**Table 4**. Results of isotopic studies of zircons from well “C”.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sample** | **Isotopic ratios** | **Rho** | **Age, Ma** | **D, %** |
| **Th** | **207Pb** | **1σ** | **207Pb** | **1σ** | **206Pb** | **1σ** | **207Pb** | **1σ** | **207Pb** | **1σ** | **206Pb** | **1σ** |
| **U** | **206Pb** | **(abs)** | **235U** | **(abs)** | **238U** | **(abs)** | **206Pb** |  | **235U** |  | **238U** |  |
| 1 | 0.46 | 0.05398 | 0.00154 | 0.27101 | 0.00777 | 0.03641 | 0.00079 | 0.76 | 370 | 63 | 244 | 6 | 231 | 5 | 6 |
| 2 | 0.27 | 0.05343 | 0.00154 | 0.35537 | 0.01027 | 0.04825 | 0.00104 | 0.75 | 347 | 64 | 309 | 8 | 304 | 6 | 2 |
| *3* | *0.48* | *0.05191* | *0.00169* | *0.32621* | *0.01057* | *0.04559* | *0.00100* | *0.68* | *281* | *73* | *287* | *8* | *287* | *6* | *0* |
| 4 (edge) | 0.56 | 0.05269 | 0.00151 | 0.28041 | 0.00806 | 0.03861 | 0.00083 | 0.75 | 316 | 64 | 251 | 6 | 244 | 5 | 3 |
| 5 (center) | 0.79 | 0.05552 | 0.00154 | 0.25718 | 0.00718 | 0.03361 | 0.00072 | 0.77 | 433 | 60 | 232 | 6 | 213 | 5 | 9 |
| 6 | 0.72 | 0.05314 | 0.00158 | 0.29578 | 0.00881 | 0.04040 | 0.00088 | 0.73 | 335 | 65 | 263 | 7 | 255 | 5 | 3 |
| *7 (edge)* | *0.35* | *0.05261* | *0.00155* | *0.31424* | *0.00926* | *0.04335* | *0.00094* | *0.74* | *312* | *66* | *278* | *7* | *274* | *6* | *1* |
| *8 (center)* | *0.47* | *0.05333* | *0.00164* | *0.31848* | *0.00975* | *0.04335* | *0.00095* | *0.72* | *343* | *68* | *281* | *8* | *274* | *6* | *3* |
| 9 | 0.60 | 0.05814 | 0.00184 | 0.29505 | 0.00927 | 0.03684 | 0.00081 | 0.70 | 535 | 68 | 263 | 7 | 233 | 5 | 13 |
| *10* | *0.28* | *0.05414* | *0.00195* | *0.33033* | *0.01176* | *0.04430* | *0.00099* | *0.63* | *377* | *79* | *290* | *9* | *279* | *6* | *4* |
| *11 (edge)* | *0.44* | *0.05140* | *0.00158* | *0.30910* | *0.00949* | *0.04368* | *0.00095* | *0.71* | *259* | *69* | *274* | *7* | *276* | *6* | *-1* |
| *12 (center)* | *0.53* | *0.05102* | *0.00156* | *0.30826* | *0.00942* | *0.04389* | *0.00096* | *0.72* | *242* | *69* | *273* | *7* | *277* | *6* | *-1* |
| *13* | *0.47* | *0.05352* | *0.00166* | *0.34789* | *0.01075* | *0.04722* | *0.00103* | *0.71* | *351* | *69* | *303* | *8* | *297* | *6* | *2* |
| *14* | *0.51* | *0.05311* | *0.00174* | *0.33825* | *0.01102* | *0.04627* | *0.00102* | *0.68* | *334* | *73* | *296* | *8* | *292* | *6* | *1* |
| 15 | 0.58 | 0.05478 | 0.00174 | 0.31518 | 0.00999 | 0.04180 | 0.00092 | 0.69 | 403 | 69 | 278 | 8 | 264 | 6 | 5 |
| *16 (center)* | *0.55* | *0.05497* | *0.00174* | *0.34314* | *0.01083* | *0.04536* | *0.00100* | *0.70* | *411* | *69* | *300* | *8* | *286* | *6* | *5* |
| *17 (edge)* | *0.33* | *0.05440* | *0.00238* | *0.34786* | *0.01491* | *0.04648* | *0.00109* | *0.55* | *388* | *95* | *303* | *11* | *293* | *7* | *3* |
| 18 (center) | 0.70 | 0.05322 | 0.00178 | 0.20586 | 0.00684 | 0.02811 | 0.00062 | 0.66 | 338 | 74 | 190 | 6 | 179 | 4 | 6 |
| *19 (edge)* | *0.33* | *0.05344* | *0.00201* | *0.34797* | *0.01293* | *0.04733* | *0.00107* | *0.61* | *347* | *83* | *303* | *10* | *298* | *7* | *2* |

Tabl.4 (continued)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sample** | **Isotopic ratios** | **Rho** | **Age, Ma** | **D, %** |
| **Th** | **207Pb** | **1σ** | **207Pb** | **1σ** | **206Pb** | **1σ** | **207Pb** | **1σ** | **207Pb** | **1σ** | **206Pb** | **1σ** |
| **U** | **206Pb** | **(abs)** | **235U** | **(abs)** | **238U** | **(abs)** | **206Pb** |  | **235U** |  | **238U** |  |
| 20 | 0.39 | 0.05534 | 0.00190 | 0.22702 | 0.00771 | 0.02983 | 0.00066 | 0.65 | 426 | 74 | 208 | 6 | 190 | 4 | 10 |
| 21 | 0.35 | 0.05249 | 0.00185 | 0.21456 | 0.00747 | 0.02972 | 0.00066 | 0.64 | 307 | 78 | 197 | 6 | 189 | 4 | 5 |
| 22 | 0.30 | 0.05692 | 0.00210 | 0.37724 | 0.01374 | 0.04820 | 0.00109 | 0.62 | 488 | 80 | 325 | 10 | 304 | 7 | 7 |
| *23* | *0.50* | *0.05289* | *0.00195* | *0.31554* | *0.01148* | *0.04340* | *0.00098* | *0.62* | *324* | *82* | *279* | *9* | *274* | *6* | *2* |
| 24 | 0.51 | 0.05768 | 0.00209 | 0.26604 | 0.00954 | 0.03355 | 0.00076 | 0.63 | 517 | 78 | 240 | 8 | 213 | 5 | 13 |
| 25 (center) | 0.79 | 0.05560 | 0.00268 | 0.23753 | 0.01118 | 0.03108 | 0.00075 | 0.51 | 436 | 103 | 216 | 9 | 197 | 5 | 10 |
| 26 (edge) | 0.51 | 0.05798 | 0.00233 | 0.31298 | 0.01239 | 0.03928 | 0.00091 | 0.59 | 529 | 86 | 277 | 10 | 248 | 6 | 11 |
| *27* | *0.62* | *0.05130* | *0.00201* | *0.31081* | *0.01203* | *0.04409* | *0.00101* | *0.59* | *254* | *88* | *275* | *9* | *278* | *6* | *-1* |
| *28* | *0.40* | *0.05136* | *0.00205* | *0.33772* | *0.01327* | *0.04785* | *0.00110* | *0.59* | *257* | *89* | *295* | *10* | *301* | *7* | *-2* |
| 29 | 0.92 | 0.05479 | 0.00226 | 0.24623 | 0.01001 | 0.03271 | 0.00076 | 0.57 | 404 | 89 | 224 | 8 | 208 | 5 | 8 |
| *30* | *0.32* | *0.05288* | *0.00280* | *0.33421* | *0.01728* | *0.04601* | *0.00114* | *0.48* | *324* | *116* | *293* | *13* | *290* | *7* | *1* |
| 31 | 0.44 | 0.05478 | 0.00236 | 0.19168 | 0.00810 | 0.02548 | 0.00060 | 0.56 | 403 | 93 | 178 | 7 | 162 | 4 | 10 |
| 32 | 0.66 | 0.05524 | 0.00233 | 0.30410 | 0.01262 | 0.04009 | 0.00094 | 0.57 | 422 | 91 | 270 | 10 | 253 | 6 | 6 |
| *33* | *0.52* | *0.05340* | *0.00239* | *0.31304* | *0.01375* | *0.04269* | *0.00101* | *0.54* | *346* | *98* | *277* | *11* | *270* | *6* | *3* |
| *34 (edge)* | *0.39* | *0.05170* | *0.00225* | *0.32582* | *0.01395* | *0.04590* | *0.00108* | *0.55* | *272* | *97* | *286* | *11* | *289* | *7* | *-1* |
| 35 (center) | 0.71 | 0.06598 | 0.00302 | 0.17643 | 0.00791 | 0.01948 | 0.00047 | 0.54 | 806 | 93 | 165 | 7 | 124 | 3 | 33 |

Note. *Measurements used in calculating concordat ages are in italic*; D ‒ discordance, %. The values of isotopic ratios and ages of individual grains are given with an error of 1Ϭ.