|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Supplementary Table S4 LA-ICPMS zircon U-Pb dating results for the samples in western segment. | | | | | | | | | | | | | | | |
| Spot No | Content (ppm) | | Th/U | Isotopic ratios | | | | | | Isotopic age (Ma) | | | | | |
| Th | U | 207Pb/206Pb | 1σ | 207Pb/235U | 1σ | 206Pb/238U | 1σ | 206Pb/238U | 1σ | 207Pb/235U | 1σ | 207Pb/206Pb | 1σ |
| ***Rhyolite (D730-9), 21 spots, weighted mean = 343.3 ±2.9, MSWD = 0.11*** | | | | | | | | | | | | | | | |
| D730-9.01 | 48 | 60 | 0.80 | 0.0546 | 0.0041 | 0.4110 | 0.0280 | 0.0546 | 0.0012 | 342.7 | 7 | 349.6 | 24 | 395.6 | 167 |
| D730-9.02 | 46 | 61 | 0.76 | 0.0532 | 0.0040 | 0.4071 | 0.0262 | 0.0555 | 0.0010 | 347.9 | 7 | 346.8 | 22 | 339.1 | 169 |
| D730-9.03 | 45 | 62 | 0.72 | 0.0537 | 0.0050 | 0.4011 | 0.0322 | 0.0542 | 0.0012 | 340.3 | 7 | 342.4 | 27 | 356.9 | 211 |
| D730-9.04 | 78 | 77 | 1.01 | 0.0541 | 0.0044 | 0.4090 | 0.0298 | 0.0548 | 0.0011 | 344.2 | 7 | 348.1 | 25 | 374.5 | 183 |
| D730-9.05 | 59 | 67 | 0.87 | 0.0552 | 0.0042 | 0.4160 | 0.0298 | 0.0547 | 0.0012 | 343.3 | 8 | 353.2 | 25 | 418.9 | 171 |
| D730-9.06 | 74 | 82 | 0.91 | 0.0544 | 0.0048 | 0.4067 | 0.0339 | 0.0542 | 0.0010 | 340.5 | 6 | 346.5 | 29 | 386.7 | 196 |
| D730-9.07 | 50 | 66 | 0.76 | 0.0545 | 0.0041 | 0.4107 | 0.0279 | 0.0547 | 0.0012 | 343.2 | 7 | 349.4 | 24 | 390.7 | 168 |
| D730-9.08 | 100 | 139 | 0.72 | 0.0537 | 0.0030 | 0.4056 | 0.0225 | 0.0548 | 0.0012 | 343.7 | 7 | 345.7 | 19 | 358.9 | 126 |
| D730-9.09 | 85 | 82 | 1.03 | 0.0535 | 0.0038 | 0.3993 | 0.0279 | 0.0542 | 0.0011 | 340.0 | 7 | 341.1 | 24 | 348.7 | 161 |
| D730-9.10 | 65 | 76 | 0.86 | 0.0523 | 0.0039 | 0.3979 | 0.0307 | 0.0552 | 0.0011 | 346.1 | 7 | 340.1 | 26 | 299.9 | 172 |
| D730-9.11 | 102 | 95 | 1.07 | 0.0533 | 0.0036 | 0.3999 | 0.0258 | 0.0545 | 0.0010 | 341.8 | 7 | 341.5 | 22 | 339.5 | 155 |
| D730-9.12 | 100 | 114 | 0.88 | 0.0529 | 0.0045 | 0.3986 | 0.0355 | 0.0547 | 0.0013 | 343.3 | 8 | 340.6 | 30 | 322.4 | 195 |
| D730-9.13 | 61 | 82 | 0.74 | 0.0546 | 0.0037 | 0.4125 | 0.0280 | 0.0548 | 0.0012 | 343.9 | 8 | 350.6 | 24 | 395.9 | 150 |
| D730-9.14 | 76 | 86 | 0.88 | 0.0529 | 0.0035 | 0.3998 | 0.0242 | 0.0549 | 0.0010 | 344.3 | 6 | 341.5 | 21 | 322.5 | 151 |
| D730-9.15 | 183 | 176 | 1.04 | 0.0530 | 0.0023 | 0.3965 | 0.0175 | 0.0543 | 0.0009 | 340.9 | 6 | 339.1 | 15 | 327.2 | 99 |
| D730-9.16 | 95 | 92 | 1.03 | 0.0542 | 0.0029 | 0.4100 | 0.0193 | 0.0549 | 0.0009 | 344.5 | 6 | 348.9 | 16 | 378.7 | 121 |
| D730-9.17 | 107 | 113 | 0.95 | 0.0535 | 0.0028 | 0.4036 | 0.0189 | 0.0548 | 0.0010 | 343.7 | 7 | 344.3 | 16 | 348.2 | 119 |
| D730-9.18 | 51 | 69 | 0.74 | 0.0541 | 0.0037 | 0.4132 | 0.0255 | 0.0554 | 0.0012 | 347.5 | 7 | 351.2 | 22 | 375.3 | 153 |
| D730-9.19 | 53 | 69 | 0.76 | 0.0533 | 0.0038 | 0.4030 | 0.0284 | 0.0548 | 0.0012 | 344.0 | 7 | 343.8 | 24 | 342.6 | 162 |
| D730-9.20 | 80 | 80 | 1.00 | 0.0546 | 0.0033 | 0.4124 | 0.0242 | 0.0548 | 0.0009 | 343.9 | 6 | 350.6 | 21 | 395.2 | 135 |
| D730-9.21 | 72 | 92 | 0.78 | 0.0543 | 0.0036 | 0.4043 | 0.0236 | 0.0540 | 0.0012 | 339.1 | 8 | 344.8 | 20 | 383.1 | 149 |
| ***Monzogranite (D731-1), 16 spots, weighted mean = 333.0±2.4, MSWD = 0.26*** | | | | | | | | | | | | | | | |
| D731-1.01 | 166 | 239 | 0.70 | 0.0545 | 0.0040 | 0.3999 | 0.0254 | 0.0532 | 0.0010 | 334.3 | 6 | 341.6 | 22 | 391.8 | 163 |
| D731-1.02 | 240 | 281 | 0.86 | 0.0549 | 0.0023 | 0.4062 | 0.0187 | 0.0536 | 0.0011 | 336.8 | 7 | 346.1 | 16 | 409.3 | 95 |
| D731-1.03 | 95 | 156 | 0.61 | 0.0550 | 0.0027 | 0.3997 | 0.0193 | 0.0527 | 0.0007 | 331.1 | 5 | 341.4 | 17 | 412.5 | 108 |
| D731-1.04 | 175 | 245 | 0.72 | 0.0535 | 0.0020 | 0.3841 | 0.0146 | 0.0521 | 0.0007 | 327.3 | 4 | 330.1 | 13 | 349.8 | 85 |
| D731-1.05 | 71 | 109 | 0.65 | 0.0537 | 0.0027 | 0.3938 | 0.0195 | 0.0532 | 0.0010 | 333.9 | 6 | 337.2 | 17 | 359.9 | 112 |
| D731-1.06 | 146 | 227 | 0.64 | 0.0542 | 0.0025 | 0.3946 | 0.0162 | 0.0528 | 0.0009 | 331.8 | 6 | 337.7 | 14 | 379.0 | 104 |
| D731-1.07 | 316 | 336 | 0.94 | 0.0547 | 0.0026 | 0.4064 | 0.0209 | 0.0538 | 0.0010 | 338.1 | 6 | 346.3 | 18 | 401.7 | 104 |
| D731-1.08 | 190 | 304 | 0.63 | 0.0545 | 0.0019 | 0.3998 | 0.0137 | 0.0532 | 0.0007 | 333.9 | 4 | 341.5 | 12 | 393.4 | 76 |
| D731-1.09 | 109 | 134 | 0.82 | 0.0552 | 0.0033 | 0.4023 | 0.0235 | 0.0529 | 0.0010 | 332.2 | 6 | 343.3 | 20 | 419.4 | 136 |
| D731-1.10 | 277 | 327 | 0.85 | 0.0535 | 0.0023 | 0.3923 | 0.0172 | 0.0532 | 0.0008 | 334.0 | 5 | 336.1 | 15 | 350.2 | 95 |
| D731-1.11 | 124 | 223 | 0.56 | 0.0550 | 0.0025 | 0.4047 | 0.0209 | 0.0534 | 0.0008 | 335.4 | 5 | 345.1 | 18 | 410.7 | 101 |
| D731-1.12 | 278 | 262 | 1.06 | 0.0531 | 0.0025 | 0.3869 | 0.0178 | 0.0528 | 0.0009 | 331.8 | 6 | 332.1 | 15 | 334.2 | 107 |
| D731-1.13 | 185 | 246 | 0.75 | 0.0534 | 0.0027 | 0.3904 | 0.0191 | 0.0530 | 0.0008 | 333.0 | 5 | 334.6 | 16 | 346.0 | 112 |
| D731-1.14 | 151 | 198 | 0.77 | 0.0533 | 0.0024 | 0.3868 | 0.0178 | 0.0526 | 0.0009 | 330.6 | 6 | 332.0 | 15 | 342.5 | 102 |
| D731-1.15 | 155 | 209 | 0.74 | 0.0520 | 0.0027 | 0.3787 | 0.0186 | 0.0528 | 0.0008 | 331.6 | 5 | 326.1 | 16 | 286.7 | 119 |
| D731-1.16 | 379 | 398 | 0.95 | 0.0534 | 0.0029 | 0.3903 | 0.0203 | 0.0530 | 0.0009 | 332.9 | 5 | 334.6 | 17 | 346.7 | 121 |
| ***Moyite (D801-6), 8 spots, weighted mean = 343.6 ±3.4 , MSWD = 0.08*** | | | | | | | | | | | | | | | |
| D801-6.01 | 562 | 468 | 1.20 | 0.0526 | 0.0016 | 0.3957 | 0.0126 | 0.0545 | 0.0006 | 342.2 | 4 | 338.5 | 11 | 313.3 | 71 |
| D801-6.02 | 192 | 459 | 0.42 | 0.0544 | 0.0023 | 0.4150 | 0.0200 | 0.0553 | 0.0012 | 346.9 | 7 | 352.5 | 17 | 389.4 | 97 |
| D801-6.03 | 332 | 606 | 0.55 | 0.0536 | 0.0021 | 0.4041 | 0.0161 | 0.0547 | 0.0009 | 343.3 | 5 | 344.6 | 14 | 353.8 | 90 |
| D801-6.04 | 443 | 443 | 1.00 | 0.0531 | 0.0024 | 0.3992 | 0.0174 | 0.0545 | 0.0010 | 342.0 | 6 | 341.0 | 15 | 334.2 | 104 |
| D801-6.05 | 267 | 337 | 0.79 | 0.0551 | 0.0021 | 0.4168 | 0.0160 | 0.0549 | 0.0006 | 344.6 | 4 | 353.8 | 14 | 414.4 | 86 |
| D801-6.06 | 560 | 464 | 1.21 | 0.0532 | 0.0017 | 0.4026 | 0.0123 | 0.0548 | 0.0006 | 344.2 | 4 | 343.5 | 11 | 339.0 | 72 |
| D801-6.07 | 408 | 489 | 0.83 | 0.0537 | 0.0024 | 0.4052 | 0.0163 | 0.0548 | 0.0009 | 343.6 | 5 | 345.4 | 14 | 357.7 | 102 |
| D801-6.08 | 404 | 438 | 0.92 | 0.0512 | 0.0021 | 0.3853 | 0.0176 | 0.0546 | 0.0011 | 342.5 | 7 | 330.9 | 15 | 250.2 | 93 |