|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Supplementary Table 3. Zircon Hf isotope compositions of the representative Early Cretaceous igneous rocks from the Erlian Basin. | | | | | | | | | | | |
| Analysis | Age/Ma | 176Yb/177Hf | 176Lu/177Hf | 176Hf/177Hf | 2σ | εHf(t) | 2σ | TDM1/Ma | TDM2/Ma | 2σ | fLu/Hf |
| Sample NM14-19 basic-intermediate volcanic rocks | | | | | | | | | | | |
| NM19-01 | 128 | 0.141 | 0.0037 | 0.283004 | 0.000053 | 10.71 | 1.89 | 378 | 499 | 82 | -0.89 |
| NM19-02 | 136 | 0.0244 | 0.0007 | 0.282898 | 0.000019 | 7.38 | 0.68 | 498 | 719 | 27 | -0.98 |
| NM19-07 | 135 | 0.045 | 0.0013 | 0.282983 | 0.000031 | 10.33 | 1.11 | 384 | 529 | 45 | -0.96 |
| NM19-14 | 140 | 0.0359 | 0.0009 | 0.282888 | 0.000024 | 7.11 | 0.84 | 514 | 739 | 34 | -0.97 |
| NM19-16 | 130 | 0.0786 | 0.0024 | 0.283089 | 0.000056 | 13.87 | 1.98 | 239 | 297 | 83 | -0.93 |
| NM19-21 | 132 | 0.021 | 0.0005 | 0.282922 | 0.000025 | 8.15 | 0.89 | 462 | 666 | 35 | -0.98 |
| NM19-29 | 133 | 0.0418 | 0.0014 | 0.282986 | 0.000075 | 10.38 | 2.65 | 380 | 524 | 108 | -0.96 |
| Sample NM14-04 intermediate-felsic volcanic rocks | | | | | | | | | | | |
| NM04-03 | 133 | 0.0366 | 0.0009 | 0.282522 | 0.000022 | -6.02 | 0.77 | 1031 | 1571 | 31 | -0.97 |
| NM04-08 | 133 | 0.0303 | 0.0009 | 0.282465 | 0.000025 | -8.02 | 0.89 | 1109 | 1698 | 35 | -0.97 |
| NM04-09 | 129 | 0.0281 | 0.0009 | 0.282476 | 0.000031 | -7.70 | 1.11 | 1093 | 1675 | 44 | -0.97 |
| NM04-13 | 134 | 0.059 | 0.0015 | 0.282497 | 0.000028 | -6.93 | 0.99 | 1083 | 1630 | 40 | -0.95 |
| NM04-14 | 136 | 0.0543 | 0.0015 | 0.282573 | 0.000027 | -4.18 | 0.95 | 972 | 1456 | 38 | -0.96 |
| NM04-15 | 133 | 0.0429 | 0.0011 | 0.282474 | 0.000022 | -7.71 | 0.76 | 1103 | 1678 | 30 | -0.97 |
| NM04-18 | 134 | 0.0372 | 0.0012 | 0.282597 | 0.000027 | -3.35 | 0.97 | 932 | 1403 | 39 | -0.96 |
| NM04-19 | 125 | 0.0521 | 0.0014 | 0.282381 | 0.000026 | -11.18 | 0.92 | 1242 | 1892 | 37 | -0.96 |
| NM04-20 | 131 | 0.0561 | 0.0014 | 0.282452 | 0.000027 | -8.55 | 0.94 | 1143 | 1730 | 38 | -0.96 |
| NM04-22 | 132 | 0.0441 | 0.0014 | 0.282544 | 0.00003 | -5.28 | 1.06 | 1012 | 1524 | 42 | -0.96 |
| NM04-24 | 135 | 0.0669 | 0.0014 | 0.282191 | 0.000021 | -17.71 | 0.73 | 1511 | 2311 | 29 | -0.96 |
| NM04-25 | 133 | 0.0733 | 0.002 | 0.282566 | 0.000028 | -4.55 | 0.99 | 997 | 1478 | 41 | -0.94 |
| NM04-26 | 130 | 0.0297 | 0.0007 | 0.282708 | 0.00002 | 0.53 | 0.71 | 765 | 1153 | 28 | -0.98 |
| NM04-27 | 131 | 0.0463 | 0.0012 | 0.282572 | 0.000023 | -4.28 | 0.82 | 966 | 1460 | 33 | -0.96 |
| NM04-28 | 130 | 0.0181 | 0.0006 | 0.282556 | 0.000024 | -4.82 | 0.83 | 973 | 1493 | 33 | -0.98 |
| Sample NM14-44 dacite from dike | | | | | | | | | | | |
| NM44-02 | 129 | 0.039 | 0.0009 | 0.282575 | 0.000025 | -4.21 | 0.88 | 957 | 1453 | 35 | -0.97 |
| NM44-11 | 128 | 0.0382 | 0.0012 | 0.282623 | 0.000061 | -2.55 | 2.16 | 895 | 1347 | 86 | -0.96 |
| NM44-24 | 130 | 0.0706 | 0.002 | 0.282506 | 0.000049 | -6.72 | 1.72 | 1084 | 1613 | 70 | -0.94 |
| NM44-25 | 291 | 0.097 | 0.0033 | 0.283047 | 0.000062 | 15.49 | 2.20 | 309 | 318 | 94 | -0.90 |
| NM44-28 | 293 | 0.0687 | 0.0025 | 0.283036 | 0.000056 | 15.32 | 1.99 | 317 | 330 | 83 | -0.93 |
| NM44-23 | 289 | 0.0901 | 0.003 | 0.283046 | 0.000065 | 15.49 | 2.30 | 307 | 316 | 98 | -0.91 |
| Sample NM16-26 trachyandesite from dike | | | | | | | | | | | |
| NM26-08 | 135 | 0.0291 | 0.000627 | 0.282609 | 0.000044 | -2.86 | 1.56 | 901 | 1372 | 61 | -0.98 |
| NM26-10 | 131 | 0.02875 | 0.000736 | 0.28256 | 0.000037 | -4.69 | 1.31 | 972 | 1485 | 52 | -0.98 |
| NM26-09 | 133 | 0.04414 | 0.001115 | 0.282526 | 0.000046 | -5.84 | 1.63 | 1030 | 1561 | 65 | -0.97 |
| NM26-13 | 134 | 0.0229 | 0.000458 | 0.282645 | 0.00004 | -1.59 | 1.41 | 847 | 1291 | 56 | -0.99 |
| NM26-14 | 133 | 0.01823 | 0.0003702 | 0.28267 | 0.000037 | -0.72 | 1.31 | 811 | 1234 | 51 | -0.99 |
| NM26-15 | 133 | 0.02662 | 0.000561 | 0.282695 | 0.000039 | 0.15 | 1.38 | 780 | 1179 | 54 | -0.98 |
| NM26-30 | 131 | 0.03147 | 0.0007045 | 0.282727 | 0.000039 | 1.22 | 1.38 | 738 | 1109 | 55 | -0.98 |
| NM26-26 | 132 | 0.0652 | 0.001546 | 0.282666 | 0.000045 | -0.99 | 1.59 | 842 | 1250 | 64 | -0.95 |