Table 5-4 Zircon Hf isotope data for some early Paleozoic gneissic granites in Wuyi and Wugong domains

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| spot | t/Ma | 2σ | 176Yb  177Hf | 176Lu  177Hf | 176Hf  177Hf | 2σ | εHf(0) | 2σ | εHf(t) | 2σ | TDM2/Ma | fLu/Hf |
| JX04 | |  |  |  |  |  |  |  |  |  |  |  |
| 01 | 443.1 | 3 | 0.01509 | 0.000445 | 0.282340 | 0.000016 | -15.27 | 0.58 | -5.65 | 0.59 | 1776 | -0.99 |
| 02 | 443.1 | 3 | 0.00732 | 0.000210 | 0.282318 | 0.000018 | -16.07 | 0.62 | -6.38 | 0.63 | 1822 | -0.99 |
| 03 | 443.1 | 3 | 0.01264 | 0.000394 | 0.282307 | 0.000018 | -16.43 | 0.64 | -6.80 | 0.65 | 1849 | -0.99 |
| 04 | 443.1 | 3 | 0.01998 | 0.000610 | 0.282394 | 0.000021 | -13.35 | 0.75 | -3.78 | 0.76 | 1659 | -0.98 |
| 05 | 443.1 | 3 | 0.01380 | 0.000409 | 0.282360 | 0.000018 | -14.58 | 0.64 | -4.95 | 0.65 | 1732 | -0.99 |
| 06 | 443.1 | 3 | 0.01075 | 0.000299 | 0.282330 | 0.000017 | -15.65 | 0.60 | -5.99 | 0.61 | 1797 | -0.99 |
| 07 | 443.1 | 3 | 0.02798 | 0.000909 | 0.282384 | 0.000023 | -13.73 | 0.83 | -4.25 | 0.83 | 1688 | -0.97 |
| 08 | 443.1 | 3 | 0.01923 | 0.000554 | 0.282422 | 0.000017 | -12.38 | 0.60 | -2.79 | 0.61 | 1596 | -0.98 |
| 09 | 443.1 | 3 | 0.01999 | 0.000589 | 0.282442 | 0.000021 | -11.67 | 0.75 | -2.09 | 0.76 | 1552 | -0.98 |
| 10 | 443.1 | 3 | 0.01057 | 0.000287 | 0.282363 | 0.000022 | -14.48 | 0.78 | -4.82 | 0.78 | 1724 | -0.99 |
| 11 | 443.1 | 3 | 0.01463 | 0.000435 | 0.282359 | 0.000021 | -14.62 | 0.76 | -5.00 | 0.77 | 1735 | -0.99 |
| 12 | 443.1 | 3 | 0.00587 | 0.000163 | 0.282327 | 0.000013 | -15.74 | 0.47 | -6.04 | 0.48 | 1801 | -1.00 |
| 13 | 443.1 | 3 | 0.00954 | 0.000293 | 0.282329 | 0.000019 | -15.67 | 0.69 | -6.01 | 0.70 | 1799 | -0.99 |
| 14 | 443.1 | 3 | 0.03463 | 0.001049 | 0.282387 | 0.000018 | -13.61 | 0.63 | -4.17 | 0.64 | 1683 | -0.97 |
| JX14 | | | | | |  |  |  |  |  |  |  |
| 01 | 438.2 | 7 | 0.01155 | 0.000338 | 0.282267 | 0.000016 | -17.84 | 0.57 | -8.31 | 0.64 | 1939 | -0.99 |
| 02 | 438.2 | 7 | 0.01237 | 0.000365 | 0.282343 | 0.000015 | -15.18 | 0.54 | -5.64 | 0.62 | 1772 | -0.99 |
| 03 | 438.2 | 7 | 0.01321 | 0.000402 | 0.282300 | 0.000014 | -16.69 | 0.51 | -7.17 | 0.59 | 1868 | -0.99 |
| 04 | 438.2 | 7 | 0.01463 | 0.000408 | 0.282321 | 0.000015 | -15.95 | 0.53 | -6.43 | 0.60 | 1822 | -0.99 |
| 05 | 438.2 | 7 | 0.01472 | 0.000433 | 0.282351 | 0.000015 | -14.89 | 0.51 | -5.38 | 0.59 | 1755 | -0.99 |
| 06 | 438.2 | 7 | 0.01596 | 0.000462 | 0.282293 | 0.000013 | -16.94 | 0.47 | -7.43 | 0.55 | 1885 | -0.99 |
| 07 | 438.2 | 7 | 0.01678 | 0.000473 | 0.282269 | 0.000014 | -17.80 | 0.51 | -8.30 | 0.59 | 1939 | -0.99 |
| 08 | 438.2 | 7 | 0.01442 | 0.000417 | 0.282292 | 0.000013 | -16.98 | 0.47 | -7.46 | 0.55 | 1887 | -0.99 |
| 09 | 438.2 | 7 | 0.01210 | 0.000321 | 0.282274 | 0.000011 | -17.61 | 0.40 | -8.07 | 0.49 | 1924 | -0.99 |
| 10 | 438.2 | 7 | 0.02507 | 0.000724 | 0.282308 | 0.000013 | -16.41 | 0.47 | -6.99 | 0.55 | 1856 | -0.98 |
| 11 | 825 | 12 | 0.05934 | 0.002192 | 0.282339 | 0.000013 | -15.32 | 0.46 | 1.70 | 0.68 | 1605 | -0.93 |
| 12 | 728 | 16 | 0.03088 | 0.001196 | 0.282052 | 0.000013 | -25.48 | 0.47 | -10.01 | 0.83 | 2264 | -0.96 |
| 13 | 962 | 14 | 0.00652 | 0.000224 | 0.282322 | 0.000011 | -15.92 | 0.40 | 5.23 | 0.74 | 1489 | -0.99 |
| 14 | 819 | 12 | 0.01993 | 0.000707 | 0.282244 | 0.000012 | -18.66 | 0.44 | -0.96 | 0.68 | 1768 | -0.98 |
| 15 | 834 | 13 | 0.02851 | 0.001385 | 0.282050 | 0.000014 | -25.52 | 0.48 | -7.87 | 0.74 | 2211 | -0.96 |
| JX35 | | | | | |  |  |  |  |  |  |  |
| 01 | 444.7 | 3 | 0.00571 | 0.000146 | 0.282274 | 0.000019 | -17.61 | 0.66 | -7.87 | 0.67 | 1917 | -1.00 |
| 02 | 444.7 | 3 | 0.02848 | 0.000842 | 0.282350 | 0.000021 | -14.92 | 0.74 | -5.39 | 0.75 | 1761 | -0.97 |
| 03 | 444.7 | 3 | 0.01341 | 0.000388 | 0.282327 | 0.000021 | -15.74 | 0.73 | -6.08 | 0.74 | 1804 | -0.99 |
| 04 | 444.7 | 3 | 0.00954 | 0.000261 | 0.282247 | 0.000021 | -18.57 | 0.74 | -8.87 | 0.75 | 1980 | -0.99 |
| 05 | 444.7 | 3 | 0.03545 | 0.001057 | 0.282310 | 0.000021 | -16.32 | 0.75 | -6.85 | 0.76 | 1853 | -0.97 |
| 06 | 444.7 | 3 | 0.00874 | 0.000252 | 0.282289 | 0.000019 | -17.07 | 0.68 | -7.37 | 0.69 | 1885 | -0.99 |
| 07 | 444.7 | 3 | 0.03271 | 0.000917 | 0.282219 | 0.000023 | -19.54 | 0.81 | -10.03 | 0.82 | 2053 | -0.97 |
| 08 | 444.7 | 3 | 0.01356 | 0.000398 | 0.282259 | 0.000018 | -18.15 | 0.64 | -8.48 | 0.65 | 1955 | -0.99 |
| 09 | 444.7 | 3 | 0.02081 | 0.000585 | 0.282338 | 0.000019 | -15.35 | 0.68 | -5.74 | 0.69 | 1783 | -0.98 |
| 10 | 444.7 | 3 | 0.01339 | 0.000385 | 0.282316 | 0.000019 | -16.14 | 0.69 | -6.47 | 0.70 | 1829 | -0.99 |
| 11 | 444.7 | 3 | 0.01901 | 0.000577 | 0.282299 | 0.000017 | -16.71 | 0.59 | -7.10 | 0.60 | 1869 | -0.98 |
| 12 | 444.7 | 3 | 0.03443 | 0.000997 | 0.282270 | 0.000020 | -17.74 | 0.71 | -8.26 | 0.72 | 1941 | -0.97 |
| 13 | 444.7 | 3 | 0.01913 | 0.000542 | 0.282319 | 0.000021 | -16.01 | 0.76 | -6.39 | 0.77 | 1824 | -0.98 |
| 14 | 444.7 | 3 | 0.02855 | 0.000794 | 0.282370 | 0.000024 | -14.20 | 0.85 | -4.65 | 0.86 | 1715 | -0.98 |
| JX36 | | | | | | |  |  |  |  |  |  |
| 01 | 442 | 4 | 0.01910 | 0.000570 | 0.282335 | 0.000018 | -15.44 | 0.65 | -5.88 | 0.67 | 1790 | -0.98 |
| 02 | 442 | 4 | 0.04066 | 0.001122 | 0.282368 | 0.000021 | -14.30 | 0.73 | -4.90 | 0.75 | 1728 | -0.97 |
| 03 | 442 | 4 | 0.02475 | 0.000714 | 0.282357 | 0.000021 | -14.68 | 0.76 | -5.17 | 0.77 | 1745 | -0.98 |

Table 5-4(Continued).

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| spot | t/Ma | 2σ | 176Yb  177Hf | 176Lu  177Hf | 176Hf  177Hf | 2σ | εHf(0) | 2σ | εHf(t) | 2σ | TDM2/Ma | fLu/Hf |
| JX36 | |  |  |  |  |  |  |  |  |  |  |  |
| 04 | 442 | 4 | 0.01311 | 0.000380 | 0.282317 | 0.000018 | -16.10 | 0.62 | -6.49 | 0.64 | 1828 | -0.99 |
| 05 | 442 | 4 | 0.01727 | 0.000484 | 0.282342 | 0.000018 | -15.20 | 0.62 | -5.62 | 0.64 | 1774 | -0.99 |
| 06 | 442 | 4 | 0.01515 | 0.000436 | 0.282284 | 0.000018 | -17.27 | 0.63 | -7.67 | 0.65 | 1903 | -0.99 |
| 07 | 442 | 4 | 0.01209 | 0.000341 | 0.282290 | 0.000021 | -17.06 | 0.74 | -7.43 | 0.76 | 1888 | -0.99 |
| 08 | 442 | 4 | 0.01494 | 0.000411 | 0.282263 | 0.000023 | -17.99 | 0.82 | -8.39 | 0.83 | 1948 | -0.99 |
| 09 | 478 | 10 | 0.02807 | 0.000801 | 0.282341 | 0.000022 | -15.25 | 0.77 | -4.99 | 0.88 | 1782 | -0.98 |
| 10 | 442 | 4 | 0.01805 | 0.000531 | 0.282376 | 0.000021 | -13.99 | 0.76 | -4.42 | 0.77 | 1698 | -0.98 |
| 11 | 477 | 18 | 0.01601 | 0.000474 | 0.282272 | 0.000022 | -17.70 | 0.79 | -7.35 | 1.06 | 1930 | -0.99 |
| 12 | 442 | 4 | 0.00991 | 0.000280 | 0.282283 | 0.000022 | -17.29 | 0.77 | -7.65 | 0.79 | 1901 | -0.99 |
| 13 | 442 | 4 | 0.01494 | 0.000435 | 0.282337 | 0.000019 | -15.38 | 0.67 | -5.79 | 0.69 | 1784 | -0.99 |
| JX39 | | | | | | |  |  |  |  |  |  |
| 01 | 443.4 | 4 | 0.01475 | 0.000437 | 0.282277 | 0.000027 | -17.50 | 0.94 | -7.87 | 0.96 | 1916 | -0.99 |
| 02 | 443.4 | 4 | 0.03456 | 0.001042 | 0.282156 | 0.000018 | -21.79 | 0.63 | -12.35 | 0.66 | 2196 | -0.97 |
| 03 | 443.4 | 4 | 0.03143 | 0.000996 | 0.282209 | 0.000020 | -19.91 | 0.70 | -10.45 | 0.73 | 2078 | -0.97 |
| 04 | 443.4 | 4 | 0.07802 | 0.002122 | 0.282293 | 0.000021 | -16.94 | 0.73 | -7.81 | 0.74 | 1912 | -0.94 |
| 05 | 443.4 | 4 | 0.05203 | 0.001537 | 0.282352 | 0.000019 | -14.84 | 0.68 | -5.54 | 0.71 | 1769 | -0.95 |
| 06 | 443.4 | 4 | 0.06272 | 0.001825 | 0.282304 | 0.000018 | -16.54 | 0.63 | -7.32 | 0.66 | 1881 | -0.95 |
| 07 | 443.4 | 4 | 0.06110 | 0.001744 | 0.282258 | 0.000017 | -18.17 | 0.60 | -8.93 | 0.62 | 1982 | -0.95 |
| 08 | 443.4 | 4 | 0.05751 | 0.001587 | 0.282290 | 0.000021 | -17.03 | 0.73 | -7.75 | 0.75 | 1908 | -0.95 |
| 09 | 443.4 | 4 | 0.02070 | 0.000554 | 0.282287 | 0.000020 | -17.14 | 0.69 | -7.55 | 0.71 | 1896 | -0.98 |
| 10 | 443.4 | 4 | 0.03810 | 0.001200 | 0.282356 | 0.000025 | -14.71 | 0.88 | -5.31 | 0.90 | 1755 | -0.96 |
| 11 | 443.4 | 4 | 0.03448 | 0.000951 | 0.282262 | 0.000020 | -18.02 | 0.71 | -8.55 | 0.73 | 1959 | -0.97 |
| JX66-5 | | | | | | |  |  |  |  |  |  |
| 01 | 442.6 | 2 | 0.02000 | 0.000585 | 0.282363 | 0.000021 | -14.45 | 0.75 | -4.89 | 0.76 | 1728 | -0.98 |
| 02 | 442.6 | 2 | 0.00687 | 0.000150 | 0.282259 | 0.000021 | -18.15 | 0.74 | -8.46 | 0.74 | 1952 | -1.00 |
| 03 | 442.6 | 2 | 0.04926 | 0.001418 | 0.282478 | 0.000032 | -10.41 | 1.12 | -1.09 | 1.13 | 1488 | -0.96 |
| 04 | 442.6 | 2 | 0.00569 | 0.000131 | 0.282327 | 0.000020 | -15.74 | 0.72 | -6.05 | 0.73 | 1801 | -1.00 |
| 05 | 442.6 | 2 | 0.01392 | 0.000374 | 0.282364 | 0.000020 | -14.42 | 0.71 | -4.79 | 0.71 | 1722 | -0.99 |
| 06 | 442.6 | 2 | 0.00756 | 0.000173 | 0.282352 | 0.000022 | -14.86 | 0.76 | -5.17 | 0.77 | 1746 | -0.99 |
| 07 | 442.6 | 2 | 0.02280 | 0.000596 | 0.282330 | 0.000023 | -15.62 | 0.81 | -6.06 | 0.82 | 1802 | -0.98 |
| 08 | 442.6 | 2 | 0.03571 | 0.000942 | 0.282357 | 0.000021 | -14.69 | 0.76 | -5.23 | 0.76 | 1750 | -0.97 |
| 09 | 442.6 | 2 | 0.02643 | 0.000795 | 0.282380 | 0.000028 | -13.88 | 1.00 | -4.37 | 1.01 | 1696 | -0.98 |
| 10 | 442.6 | 2 | 0.00762 | 0.000177 | 0.282331 | 0.000022 | -15.60 | 0.76 | -5.92 | 0.77 | 1793 | -0.99 |
| 11 | 442.6 | 2 | 0.00368 | 0.000078 | 0.282298 | 0.000021 | -16.76 | 0.75 | -7.04 | 0.76 | 1864 | -1.00 |
| 12 | 442.6 | 2 | 0.00749 | 0.000165 | 0.282393 | 0.000022 | -13.40 | 0.76 | -3.71 | 0.77 | 1654 | -1.00 |
| 13 | 442.6 | 2 | 0.01675 | 0.000326 | 0.282229 | 0.000020 | -19.20 | 0.70 | -9.56 | 0.70 | 2022 | -0.99 |
| 14 | 442.6 | 2 | 0.00865 | 0.000189 | 0.282346 | 0.000021 | -15.06 | 0.75 | -5.38 | 0.76 | 1759 | -0.99 |
| 15 | 442.6 | 2 | 0.01478 | 0.000404 | 0.282363 | 0.000021 | -14.46 | 0.74 | -4.84 | 0.74 | 1725 | -0.99 |
| 16 | 442.6 | 2 | 0.01847 | 0.000500 | 0.282326 | 0.000025 | -15.78 | 0.87 | -6.19 | 0.88 | 1810 | -0.98 |
| CQ3-2 | | | | | | |  |  |  |  |  |  |
| 01 | 442.7 | 3 | 0.00821 | 0.000190 | 0.282278 | 0.000010 | -17.48 | 0.34 | -7.80 | 0.37 | 1911 | -0.99 |
| 02 | 442.7 | 3 | 0.03066 | 0.000992 | 0.282310 | 0.000010 | -16.35 | 0.36 | -6.90 | 0.38 | 1855 | -0.97 |
| 03 | 442.7 | 3 | 0.02896 | 0.000866 | 0.282385 | 0.000012 | -13.69 | 0.41 | -4.20 | 0.43 | 1685 | -0.97 |
| 04 | 442.7 | 3 | 0.02822 | 0.000874 | 0.282326 | 0.000012 | -15.79 | 0.41 | -6.31 | 0.43 | 1817 | -0.97 |
| 05 | 442.7 | 3 | 0.04996 | 0.001544 | 0.282401 | 0.000024 | -13.12 | 0.84 | -3.83 | 0.85 | 1662 | -0.95 |
| 06 | 442.7 | 3 | 0.02186 | 0.000691 | 0.282379 | 0.000020 | -13.90 | 0.69 | -4.37 | 0.71 | 1695 | -0.98 |
| 07 | 442.7 | 3 | 0.04143 | 0.001301 | 0.282422 | 0.000015 | -12.37 | 0.52 | -3.01 | 0.54 | 1610 | -0.96 |
| 08 | 442.7 | 3 | 0.02377 | 0.000747 | 0.282316 | 0.000018 | -16.12 | 0.65 | -6.60 | 0.66 | 1836 | -0.98 |
| 09 | 442.7 | 3 | 0.04383 | 0.001337 | 0.282339 | 0.000016 | -15.30 | 0.58 | -5.95 | 0.59 | 1795 | -0.96 |

Table 5-4(Continued).

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| spot | t/Ma | 2σ | 176Yb  177Hf | 176Lu  177Hf | 176Hf  177Hf | 2σ | εHf(0) | 2σ | εHf(t) | 2σ | TDM2/Ma | fLu/Hf |
| CQ3-2 | |  |  |  |  |  |  |  |  |  |  |  |
| 10 | 442.7 | 3 | 0.02232 | 0.000667 | 0.282362 | 0.000020 | -14.51 | 0.70 | -4.96 | 0.71 | 1733 | -0.98 |
| 11 | 442.7 | 3 | 0.04082 | 0.001196 | 0.282360 | 0.000017 | -14.58 | 0.61 | -5.19 | 0.62 | 1747 | -0.96 |
| 12 | 442.7 | 3 | 0.04406 | 0.001294 | 0.282334 | 0.000013 | -15.51 | 0.45 | -6.15 | 0.47 | 1807 | -0.96 |
| 13 | 442.7 | 3 | 0.03327 | 0.001017 | 0.282364 | 0.000015 | -14.43 | 0.55 | -4.99 | 0.56 | 1734 | -0.97 |
| 14 | 442.7 | 3 | 0.04114 | 0.001185 | 0.282377 | 0.000015 | -13.98 | 0.54 | -4.59 | 0.55 | 1709 | -0.96 |
| JX62 | | | | | | |  |  |  |  |  |  |
| 01 | 453.1 | 4 | 0.03478 | 0.001008 | 0.282327 | 0.000020 | -15.74 | 0.70 | -6.07 | 0.72 | 1810 | -0.97 |
| 02 | 453.1 | 4 | 0.03929 | 0.001181 | 0.282335 | 0.000020 | -15.46 | 0.71 | -5.85 | 0.73 | 1796 | -0.96 |
| 03 | 453.1 | 4 | 0.04756 | 0.001376 | 0.282378 | 0.000020 | -13.95 | 0.71 | -4.39 | 0.73 | 1704 | -0.96 |
| 04 | 453.1 | 4 | 0.04155 | 0.001212 | 0.282374 | 0.000017 | -14.06 | 0.62 | -4.46 | 0.64 | 1709 | -0.96 |
| 05 | 453.1 | 4 | 0.05106 | 0.001471 | 0.282421 | 0.000023 | -12.43 | 0.81 | -2.90 | 0.83 | 1610 | -0.96 |
| 06 | 453.1 | 4 | 0.03268 | 0.001006 | 0.282290 | 0.000020 | -17.05 | 0.70 | -7.39 | 0.72 | 1893 | -0.97 |
| 07 | 453.1 | 4 | 0.03910 | 0.001180 | 0.282338 | 0.000020 | -15.35 | 0.69 | -5.74 | 0.71 | 1789 | -0.96 |
| 08 | 453.1 | 4 | 0.03167 | 0.000923 | 0.282380 | 0.000019 | -13.85 | 0.68 | -4.16 | 0.70 | 1690 | -0.97 |
| 09 | 453.1 | 4 | 0.03119 | 0.000969 | 0.282324 | 0.000020 | -15.83 | 0.71 | -6.15 | 0.73 | 1815 | -0.97 |
| 10 | 453.1 | 4 | 0.02889 | 0.000919 | 0.282408 | 0.000018 | -12.87 | 0.64 | -3.17 | 0.66 | 1628 | -0.97 |
| 11 | 453.1 | 4 | 0.04044 | 0.001221 | 0.282338 | 0.000018 | -15.35 | 0.63 | -5.75 | 0.65 | 1790 | -0.96 |
| 12 | 453.1 | 4 | 0.06860 | 0.001842 | 0.282302 | 0.000021 | -16.62 | 0.74 | -7.21 | 0.76 | 1882 | -0.94 |
| 13 | 517 | 8 | 0.02344 | 0.000646 | 0.281800 | 0.000026 | -34.39 | 0.92 | -23.25 | 0.98 | 2930 | -0.98 |
| 14 | 453.1 | 4 | 0.01919 | 0.000614 | 0.282375 | 0.000018 | -14.03 | 0.64 | -4.25 | 0.66 | 1696 | -0.98 |
| 15 | 453.1 | 4 | 0.06212 | 0.001861 | 0.282449 | 0.000025 | -11.41 | 0.90 | -2.00 | 0.91 | 1554 | -0.94 |
| 16 | 453.1 | 4 | 0.03450 | 0.000993 | 0.282404 | 0.000023 | -13.01 | 0.83 | -3.33 | 0.84 | 1638 | -0.97 |