**Supplementary Material**

**An Upper Ediacaran Glacial Period in Cadomia: The Granville tillite (Armorican Massif) - Sedimentology, Geochronology, and Provenance**

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**Method description for U-Th-Pb isotope analysis of detrital zircon**

Zircon concentrates were separated from 2 to 4kg whole rock material at the Senckenberg Naturhistorische Sammlungen Dresden (Museum für Mineralogie und Geologie, Sektion Geochronologie, GeoPlasmaLab). After crushing up of the fresh sample in a jaw crusher, material was sieved for the fraction from 36 to 400 μm. Heavy mineral separation was achieved from this fraction using LST (lithium heteropolytungstate in water) prior to magnetic separation in the Frantz isomagnetic separator. Final selection of the zircon grains for U-Pb dating was achieved by hand-picking under a binocular microscope. When possible, at least 150 zircon grains of all grain sizes and morphological types were selected (Fedo *et al.* 2003; Link *et al.* 2005), mounted in resin blocks, and polished to half their thickness. Cathodoluminescence (CL)-imaging was performed using a ZEISS SEM EVO 50 coupled to a HONOLD CL detector operating with a spot size of 550 nm at 20 kV.

Zircons were analyzed for U, Th, and Pb isotopes by LA ICP-MS techniques at the Museum für Mineralogie und Geologie (GeoPlasma Lab, Senckenberg Naturhistorische Sammlungen Dresden), using a Thermo-Scientific Element 2 XR sector field ICP-MS (single-collector) coupled to a RESOlution 193nm excimer laser. Each analysis consisted of approximately 15 s background acquisition followed by 30 s data acquisition, using a laser spot-size of 25 and 35μm, respectively. A common-Pb correction based on the interference- and background-corrected 204Pb signal and a model Pb composition (Stacey & Kramers 1975) was carried out if necessary. The necessity of the correction is judged on whether the corrected 207Pb/206Pb lies outside of the internal errors of the measured ratios (Frei & Gerdes 2009). Discordant analyses were generally interpreted with care. Raw data were corrected for background signal, common Pb, laser-induced elemental fractionation, instrumental mass discrimination, and time-dependant elemental fractionation of Pb/Th and Pb/U using an Excel ® spreadsheet program developed by Albert Richard Roper and Axel Gerdes (FIERCE, Institute of Geosciences, Johann Wolfgang Goethe-University Frankfurt, Frankfurt am Main, Germany). Reported uncertainties were propagated by quadratic addition of the external reproducibility obtained from the standard zircon GJ-1 (~0.6% and 0.5-1% for the 207Pb/206Pb and 206Pb/238U, respectively; Jackson *et al.* 2004) during individual analytical sessions and within-run precision of each analysis. In order to test the accuracy of the measurements and data reduction, we included the Plesovice zircon as a secondary standard in our analyses and which gave reproducibly ages of c. 337 Ma, fitting with the results of Sláma *et al.* (2008). Concordia ages (95% confidence level) were produced using Isoplot/Ex 4.15 (Ludwig 2008). Kernel density estimation plots were produced using the detzrcr package for the statistic program R 3.6.1. by Andersen *et al.* (2018). The 207Pb-206Pb age was taken for interpretation for all zircons > 1.5 Ga (Puetz 2018), and the 206Pb-238U ages for younger grains. For further details on analytical protocol and data processing see Gerdes & Zeh (2006). Zircon grains showing a degree of concordance in the range of 90-110% in this paper were used for the Kernel density estimation plots. U and Pb content and Th/U ratio were calculated relative to the GJ-1 zircon standard and are accurate to approximately 10%. Analytical results of U-Th-Pb isotopes and calculated U-Pb ages are given in Table 1.

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| **Table 1: U-Th-Pb data and U-Pb ages of detrital zircon grains** | | | | | | | | | | | | | | | | | | | | | | | | | |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Sample GV2, thin-bedded quartzite, upper Granville Formation, member 1, upper Ediacaran, Granville, Rue de Cap Lihou, Normandy, France, co-ordinates N 48° 50´1.31"; 1° 36´36.82"; elev. 20 m above sea level.** | | | | | | | | | | | | | | | | | | | | | | | | | |
| **GV2** | 207Pba | Ub | Pbb | Thb | 206Pbc | 206Pbc | 2 s | 207Pbc | 2 s | 207Pbc | 2 s | rhod | 206Pb | 2 s | 207Pb | 2 s | 207Pb | 2 s |  |  |  |  |  |  |  |
| Number | (cps) | (ppm) | (ppm) | U | 204Pb | 238U | % | 235U | % | 206Pb | % |  | 238U | (Ma) | 235U | (Ma) | 206Pb | (Ma) | conc % |  |  |  |  |  |  |
| a1 | 5162 | 4 | 3 | 3.20 | 36 | 0.18656 | 3.3 | 13.74475 | 5.6 | 0.53433 | 4.5 | 0.60 | 1103 | 34 | 2732 | 54 | 4339 | 66 | 25 |  |  |  |  |  |  |
| a2 | 1941 | 24 | 3 | 0.48 | 1167 | 0.11921 | 2.3 | 1.04593 | 5.2 | 0.06363 | 4.6 | 0.45 | 726 | 16 | 727 | 27 | 729 | 98 | 100 |  |  |  |  |  |  |
| a3 | 44086 | 676 | 75 | 0.19 | 3738 | 0.10990 | 2.0 | 0.94412 | 2.3 | 0.06231 | 1.1 | 0.88 | 672 | 13 | 675 | 11 | 685 | 23 | 98 |  |  |  |  |  |  |
| a4 | 19606 | 285 | 29 | 0.30 | 1336 | 0.10375 | 2.0 | 0.87599 | 3.6 | 0.06123 | 3.0 | 0.56 | 636 | 12 | 639 | 17 | 647 | 65 | 98 |  |  |  |  |  |  |
| a5 | 31698 | 372 | 35 | 0.20 | 369 | 0.08230 | 2.3 | 1.31729 | 5.7 | 0.11608 | 5.2 | 0.40 | 510 | 11 | 853 | 34 | 1897 | 94 | 27 |  |  |  |  |  |  |
| a6 | 16591 | 306 | 30 | 0.34 | 3693 | 0.09232 | 2.0 | 0.75215 | 3.1 | 0.05909 | 2.4 | 0.63 | 569 | 11 | 569 | 14 | 570 | 53 | 100 |  |  |  |  |  |  |
| a7 | 16619 | 350 | 29 | 0.00 | 3024 | 0.09107 | 1.8 | 0.73982 | 2.8 | 0.05892 | 2.2 | 0.64 | 562 | 10 | 562 | 12 | 564 | 47 | 100 |  |  |  |  |  |  |
| a8 | 26746 | 412 | 39 | 0.20 | 4655 | 0.09301 | 2.1 | 0.76112 | 2.7 | 0.05935 | 1.7 | 0.78 | 573 | 11 | 575 | 12 | 580 | 36 | 99 |  |  |  |  |  |  |
| a9 | 22762 | 359 | 34 | 0.25 | 834 | 0.09114 | 1.9 | 0.74100 | 4.6 | 0.05897 | 4.2 | 0.41 | 562 | 10 | 563 | 20 | 566 | 92 | 99 |  |  |  |  |  |  |
| a10 | 8572 | 80 | 10 | 0.33 | 466 | 0.11974 | 1.9 | 1.05532 | 5.8 | 0.06392 | 5.5 | 0.33 | 729 | 13 | 732 | 31 | 739 | 115 | 99 |  |  |  |  |  |  |
| a11 | 18323 | 236 | 24 | 0.29 | 259 | 0.09335 | 2.3 | 0.77331 | 5.9 | 0.06008 | 5.4 | 0.38 | 575 | 13 | 582 | 26 | 607 | 118 | 95 |  |  |  |  |  |  |
| a12 | 6485 | 119 | 12 | 0.33 | 10946 | 0.09376 | 2.0 | 0.77311 | 2.8 | 0.05980 | 2.0 | 0.71 | 578 | 11 | 582 | 13 | 596 | 43 | 97 |  |  |  |  |  |  |
| a13 | 6737 | 118 | 11 | 0.35 | 11523 | 0.09077 | 2.0 | 0.73814 | 2.8 | 0.05898 | 1.9 | 0.74 | 560 | 11 | 561 | 12 | 566 | 41 | 99 |  |  |  |  |  |  |
| a14 | 16432 | 283 | 26 | 0.05 | 27632 | 0.09651 | 2.1 | 0.79950 | 2.9 | 0.06008 | 2.0 | 0.72 | 594 | 12 | 597 | 13 | 606 | 44 | 98 |  |  |  |  |  |  |
| a15 | 19721 | 335 | 25 | 0.46 | 1274 | 0.06975 | 2.3 | 0.76957 | 3.4 | 0.08002 | 2.4 | 0.68 | 435 | 10 | 580 | 15 | 1197 | 48 | 36 |  |  |  |  |  |  |
| a16 | 14236 | 208 | 20 | 0.17 | 2613 | 0.09323 | 1.8 | 0.76052 | 3.3 | 0.05917 | 2.7 | 0.56 | 575 | 10 | 574 | 14 | 573 | 59 | 100 |  |  |  |  |  |  |
| a17 | 6149 | 101 | 10 | 0.36 | 10441 | 0.09321 | 1.7 | 0.76424 | 4.4 | 0.05947 | 4.0 | 0.40 | 574 | 10 | 576 | 20 | 584 | 88 | 98 |  |  |  |  |  |  |
| a18 | 163693 | 552 | 90 | 0.38 | 114 | 0.09769 | 3.1 | 0.80927 | 10.9 | 0.06008 | 10.5 | 0.28 | 601 | 18 | 602 | 51 | 607 | 227 | 99 |  |  |  |  |  |  |
| a19 | 35902 | 66 | 22 | 0.17 | 7643 | 0.32645 | 2.7 | 5.30261 | 3.3 | 0.11781 | 1.8 | 0.82 | 1821 | 43 | 1869 | 28 | 1923 | 33 | 95 |  |  |  |  |  |  |
| a20 | 38667 | 349 | 42 | 0.30 | 622 | 0.10712 | 2.0 | 0.90168 | 3.6 | 0.06105 | 3.0 | 0.55 | 656 | 13 | 653 | 18 | 641 | 65 | 102 |  |  |  |  |  |  |
| a21 | 29016 | 483 | 52 | 0.39 | 1116 | 0.09878 | 1.7 | 0.82092 | 3.3 | 0.06027 | 2.9 | 0.51 | 607 | 10 | 609 | 15 | 613 | 62 | 99 |  |  |  |  |  |  |
| a22 | 38036 | 254 | 29 | 0.56 | 150 | 0.07656 | 3.4 | 1.69102 | 4.2 | 0.16020 | 2.5 | 0.80 | 476 | 15 | 1005 | 27 | 2458 | 43 | 19 |  |  |  |  |  |  |
| a23 | 43461 | 335 | 38 | 0.28 | 122 | 0.09446 | 3.6 | 0.77719 | 7.1 | 0.05967 | 6.1 | 0.51 | 582 | 20 | 584 | 32 | 592 | 133 | 98 |  |  |  |  |  |  |
| a24 | 5820 | 61 | 9 | 0.33 | 8571 | 0.14518 | 2.3 | 1.36920 | 4.4 | 0.06840 | 3.7 | 0.53 | 874 | 19 | 876 | 26 | 881 | 77 | 99 |  |  |  |  |  |  |
| a25 | 91847 | 402 | 55 | 0.49 | 123 | 0.09159 | 2.5 | 0.74415 | 5.5 | 0.05893 | 4.9 | 0.45 | 565 | 13 | 565 | 24 | 564 | 107 | 100 |  |  |  |  |  |  |
| a27 | 9094 | 11 | 9 | 0.18 | 93 | 0.61522 | 1.6 | 22.13741 | 3.6 | 0.26097 | 3.2 | 0.45 | 3091 | 39 | 3190 | 35 | 3253 | 50 | 95 |  |  |  |  |  |  |
| a28 | 271176 | 325 | 194 | 0.52 | 155198 | 0.49716 | 1.8 | 12.08652 | 2.0 | 0.17632 | 0.7 | 0.94 | 2602 | 39 | 2611 | 18 | 2619 | 11 | 99 |  |  |  |  |  |  |
| a29 | 39766 | 342 | 47 | 0.34 | 176 | 0.12239 | 2.1 | 1.08545 | 6.4 | 0.06432 | 6.1 | 0.33 | 744 | 15 | 746 | 34 | 752 | 128 | 99 |  |  |  |  |  |  |
| a30 | 36123 | 390 | 40 | 0.31 | 595 | 0.09164 | 1.6 | 0.74774 | 3.2 | 0.05918 | 2.8 | 0.50 | 565 | 9 | 567 | 14 | 574 | 61 | 99 |  |  |  |  |  |  |
| a31 | 25759 | 238 | 12 | 0.15 | 17785 | 0.04482 | 23.5 | 0.48655 | 25.7 | 0.07873 | 10.3 | 0.92 | 283 | 65 | 403 | 89 | 1165 | 204 | 24 |  |  |  |  |  |  |
| a32 | 105941 | 116 | 64 | 0.22 | 58501 | 0.49855 | 2.0 | 12.56214 | 2.3 | 0.18275 | 1.2 | 0.85 | 2608 | 43 | 2647 | 22 | 2678 | 20 | 97 |  |  |  |  |  |  |
| a33 | 1442 | 10 | 1 | 0.65 | 219 | 0.10716 | 2.7 | 2.50709 | 6.1 | 0.16968 | 5.5 | 0.43 | 656 | 17 | 1274 | 46 | 2554 | 93 | 26 |  |  |  |  |  |  |
| a34 | 9866 | 184 | 19 | 0.34 | 16454 | 0.09866 | 2.0 | 0.82181 | 3.0 | 0.06041 | 2.2 | 0.67 | 607 | 12 | 609 | 14 | 618 | 48 | 98 |  |  |  |  |  |  |
| a35 | 2998 | 17 | 3 | 0.37 | 97 | 0.10390 | 3.3 | 2.78379 | 5.7 | 0.19432 | 4.6 | 0.59 | 637 | 20 | 1351 | 44 | 2779 | 76 | 23 |  |  |  |  |  |  |
| a37 | 10489 | 164 | 20 | 0.48 | 11511 | 0.10699 | 2.0 | 0.90659 | 2.8 | 0.06145 | 2.0 | 0.71 | 655 | 13 | 655 | 14 | 655 | 43 | 100 |  |  |  |  |  |  |
| a38 | 2848 | 50 | 5 | 0.21 | 4778 | 0.09787 | 2.5 | 0.81480 | 5.3 | 0.06038 | 4.7 | 0.47 | 602 | 14 | 605 | 24 | 617 | 101 | 98 |  |  |  |  |  |  |
| a39 | 5236 | 103 | 11 | 0.85 | 1033 | 0.09125 | 2.1 | 0.74220 | 4.3 | 0.05899 | 3.8 | 0.49 | 563 | 12 | 564 | 19 | 567 | 82 | 99 |  |  |  |  |  |  |
| a40 | 78335 | 191 | 88 | 0.84 | 64886 | 0.36065 | 1.8 | 6.05870 | 2.0 | 0.12184 | 0.8 | 0.91 | 1985 | 31 | 1984 | 17 | 1983 | 15 | 100 |  |  |  |  |  |  |
| a41 | 4721 | 7 | 3 | 1.61 | 41 | 0.11403 | 5.1 | 7.81420 | 9.6 | 0.49703 | 8.1 | 0.53 | 696 | 34 | 2210 | 90 | 4232 | 120 | 16 |  |  |  |  |  |  |
| a43 | 3529 | 2 | 2 | 2.79 | 26 | 0.30632 | 6.9 | 26.32394 | 9.3 | 0.62327 | 6.2 | 0.74 | 1723 | 105 | 3359 | 95 | 4563 | 90 | 38 |  |  |  |  |  |  |
| a44 | 9179 | 101 | 13 | 0.71 | 14884 | 0.11160 | 2.1 | 0.96052 | 2.9 | 0.06242 | 2.0 | 0.72 | 682 | 14 | 684 | 15 | 689 | 43 | 99 |  |  |  |  |  |  |
| a45 | 21608 | 419 | 40 | 0.27 | 4422 | 0.09296 | 1.8 | 0.75793 | 3.8 | 0.05914 | 3.3 | 0.48 | 573 | 10 | 573 | 17 | 572 | 72 | 100 |  |  |  |  |  |  |
| a46 | 12767 | 205 | 13 | 0.10 | 21119 | 0.06008 | 5.5 | 0.50509 | 6.2 | 0.06097 | 2.8 | 0.89 | 376 | 20 | 415 | 21 | 638 | 61 | 59 |  |  |  |  |  |  |
| a47 | 28789 | 312 | 41 | 0.55 | 349 | 0.11231 | 2.9 | 0.97480 | 5.0 | 0.06295 | 4.1 | 0.58 | 686 | 19 | 691 | 25 | 707 | 87 | 97 |  |  |  |  |  |  |
| a49 | 5946 | 8 | 4 | 0.84 | 35 | 0.17893 | 2.9 | 12.15568 | 4.9 | 0.49270 | 4.0 | 0.59 | 1061 | 29 | 2616 | 47 | 4220 | 59 | 25 |  |  |  |  |  |  |
| a50 | 9638 | 208 | 21 | 0.54 | 4788 | 0.09023 | 2.3 | 0.73520 | 3.2 | 0.05910 | 2.3 | 0.70 | 557 | 12 | 560 | 14 | 571 | 50 | 98 |  |  |  |  |  |  |
| a51 | 8800 | 150 | 15 | 0.44 | 1149 | 0.09027 | 2.1 | 0.73307 | 5.5 | 0.05890 | 5.1 | 0.37 | 557 | 11 | 558 | 24 | 563 | 112 | 99 |  |  |  |  |  |  |
| a52 | 7048 | 130 | 15 | 0.52 | 3124 | 0.10233 | 1.9 | 0.85878 | 2.8 | 0.06086 | 2.1 | 0.66 | 628 | 11 | 629 | 13 | 634 | 46 | 99 |  |  |  |  |  |  |
| a53 | 73149 | 636 | 67 | 0.31 | 119 | 0.08169 | 2.6 | 0.74783 | 5.2 | 0.06640 | 4.5 | 0.50 | 506 | 13 | 567 | 23 | 819 | 95 | 62 |  |  |  |  |  |  |
| a54 | 6925 | 145 | 14 | 0.30 | 11652 | 0.09491 | 1.7 | 0.78550 | 3.2 | 0.06002 | 2.7 | 0.54 | 585 | 10 | 589 | 14 | 604 | 58 | 97 |  |  |  |  |  |  |
| a55 | 642039 | 1194 | 350 | 0.07 | 30 | 0.10149 | 2.3 | 7.62488 | 5.6 | 0.54488 | 5.0 | 0.42 | 623 | 14 | 2188 | 51 | 4367 | 74 | 14 |  |  |  |  |  |  |
| a56 | 31136 | 345 | 39 | 0.50 | 303 | 0.09228 | 1.9 | 0.75385 | 5.5 | 0.05925 | 5.2 | 0.35 | 569 | 11 | 570 | 24 | 576 | 112 | 99 |  |  |  |  |  |  |
| a57 | 9959 | 206 | 20 | 0.27 | 16908 | 0.09433 | 2.2 | 0.77324 | 2.8 | 0.05945 | 1.8 | 0.77 | 581 | 12 | 582 | 12 | 584 | 38 | 100 |  |  |  |  |  |  |
| a58 | 50832 | 147 | 66 | 0.90 | 33777 | 0.34325 | 1.9 | 5.50974 | 2.3 | 0.11642 | 1.3 | 0.82 | 1902 | 31 | 1902 | 20 | 1902 | 23 | 100 |  |  |  |  |  |  |
| a61 | 8629 | 238 | 26 | 0.59 | 14692 | 0.09343 | 1.9 | 0.76385 | 2.3 | 0.05929 | 1.4 | 0.81 | 576 | 10 | 576 | 10 | 578 | 30 | 100 |  |  |  |  |  |  |
| a62 | 22780 | 65 | 27 | 0.67 | 12307 | 0.34136 | 1.8 | 5.45086 | 2.4 | 0.11581 | 1.6 | 0.76 | 1893 | 30 | 1893 | 21 | 1893 | 28 | 100 |  |  |  |  |  |  |
| a63 | 30354 | 505 | 51 | 0.47 | 1547 | 0.09220 | 1.6 | 0.75521 | 4.7 | 0.05941 | 4.4 | 0.33 | 569 | 9 | 571 | 21 | 582 | 96 | 98 |  |  |  |  |  |  |
| a64 | 3804 | 68 | 9 | 0.42 | 2970 | 0.11779 | 2.7 | 1.03172 | 4.7 | 0.06353 | 3.9 | 0.57 | 718 | 18 | 720 | 25 | 726 | 82 | 99 |  |  |  |  |  |  |
| a65 | 9282 | 9 | 5 | 1.61 | 32 | 0.18478 | 3.5 | 14.88950 | 5.0 | 0.58441 | 3.5 | 0.71 | 1093 | 36 | 2808 | 49 | 4470 | 51 | 24 |  |  |  |  |  |  |
| a66 | 90740 | 1061 | 79 | 0.02 | 118 | 0.06119 | 2.9 | 0.54611 | 6.0 | 0.06473 | 5.2 | 0.49 | 383 | 11 | 442 | 22 | 765 | 110 | 50 |  |  |  |  |  |  |
| a67 | 7791 | 189 | 20 | 0.65 | 1917 | 0.09097 | 2.0 | 0.73900 | 4.5 | 0.05892 | 4.0 | 0.44 | 561 | 11 | 562 | 20 | 564 | 88 | 100 |  |  |  |  |  |  |
| a68 | 9633 | 185 | 21 | 0.44 | 6838 | 0.10560 | 1.9 | 0.89259 | 4.5 | 0.06130 | 4.1 | 0.42 | 647 | 12 | 648 | 22 | 650 | 88 | 100 |  |  |  |  |  |  |
| a69 | 25372 | 59 | 34 | 1.23 | 18794 | 0.40201 | 2.1 | 7.54465 | 2.6 | 0.13611 | 1.6 | 0.79 | 2178 | 38 | 2178 | 24 | 2178 | 28 | 100 |  |  |  |  |  |  |
| a70 | 25715 | 598 | 56 | 0.19 | 1100 | 0.09419 | 2.4 | 0.77768 | 8.4 | 0.05988 | 8.1 | 0.29 | 580 | 13 | 584 | 38 | 599 | 175 | 97 |  |  |  |  |  |  |
| a71 | 25549 | 276 | 21 | 0.74 | 176 | 0.04124 | 2.0 | 0.74445 | 7.6 | 0.13093 | 7.3 | 0.27 | 261 | 5 | 565 | 33 | 2110 | 128 | 12 |  |  |  |  |  |  |
| a72 | 12764 | 308 | 32 | 0.56 | 21837 | 0.09111 | 1.9 | 0.74082 | 2.6 | 0.05897 | 1.8 | 0.72 | 562 | 10 | 563 | 11 | 566 | 39 | 99 |  |  |  |  |  |  |
| a73 | 11224 | 41 | 8 | 0.01 | 42 | 0.08855 | 2.0 | 5.12371 | 3.4 | 0.41964 | 2.7 | 0.60 | 547 | 11 | 1840 | 29 | 3981 | 41 | 14 |  |  |  |  |  |  |
| a74 | 6462 | 159 | 15 | 0.34 | 6255 | 0.09109 | 2.0 | 0.74212 | 3.9 | 0.05909 | 3.3 | 0.53 | 562 | 11 | 564 | 17 | 570 | 72 | 99 |  |  |  |  |  |  |
| a75 | 25925 | 532 | 55 | 0.34 | 650 | 0.08603 | 3.6 | 0.72171 | 5.2 | 0.06084 | 3.7 | 0.69 | 532 | 18 | 552 | 22 | 634 | 80 | 84 |  |  |  |  |  |  |
| a76 | 32812 | 357 | 49 | 0.31 | 1924 | 0.13021 | 1.6 | 1.17183 | 3.1 | 0.06527 | 2.7 | 0.53 | 789 | 12 | 787 | 17 | 783 | 56 | 101 |  |  |  |  |  |  |
| a78 | 5347 | 116 | 12 | 0.31 | 8897 | 0.10024 | 1.8 | 0.83902 | 3.6 | 0.06070 | 3.0 | 0.51 | 616 | 11 | 619 | 17 | 629 | 66 | 98 |  |  |  |  |  |  |
| a79 | 104125 | 150 | 37 | 0.30 | 50976 | 0.18180 | 13.7 | 5.18257 | 19.8 | 0.20675 | 14.3 | 0.69 | 1077 | 137 | 1850 | 184 | 2880 | 232 | 37 |  |  |  |  |  |  |
| a80 | 4140 | 6 | 3 | 5.19 | 51 | 0.13672 | 5.1 | 9.34727 | 8.7 | 0.49585 | 7.1 | 0.59 | 826 | 40 | 2373 | 84 | 4229 | 105 | 20 |  |  |  |  |  |  |
| a81 | 11704 | 283 | 27 | 0.24 | 3578 | 0.09515 | 2.3 | 0.78447 | 3.0 | 0.05980 | 1.9 | 0.77 | 586 | 13 | 588 | 13 | 596 | 41 | 98 |  |  |  |  |  |  |
| a82 | 40854 | 138 | 51 | 0.24 | 5807 | 0.36971 | 1.9 | 6.40517 | 2.3 | 0.12565 | 1.3 | 0.82 | 2028 | 32 | 2033 | 20 | 2038 | 23 | 100 |  |  |  |  |  |  |
| a83 | 46669 | 560 | 60 | 0.28 | 231 | 0.09642 | 2.3 | 0.79435 | 7.5 | 0.05975 | 7.1 | 0.31 | 593 | 13 | 594 | 34 | 595 | 155 | 100 |  |  |  |  |  |  |
| a84 | 17724 | 173 | 35 | 0.51 | 6021 | 0.17772 | 1.8 | 1.82070 | 2.4 | 0.07430 | 1.5 | 0.76 | 1055 | 18 | 1053 | 16 | 1050 | 31 | 100 |  |  |  |  |  |  |
| a85 | 26054 | 593 | 54 | 0.07 | 5089 | 0.09649 | 2.1 | 0.79658 | 2.9 | 0.05987 | 2.0 | 0.73 | 594 | 12 | 595 | 13 | 599 | 42 | 99 |  |  |  |  |  |  |
| a86 | 49240 | 82 | 48 | 0.43 | 3126 | 0.49838 | 1.5 | 12.62326 | 3.1 | 0.18370 | 2.6 | 0.50 | 2607 | 33 | 2652 | 29 | 2687 | 44 | 97 |  |  |  |  |  |  |
| a87 | 19192 | 370 | 40 | 0.05 | 8466 | 0.11442 | 2.0 | 0.99228 | 2.6 | 0.06289 | 1.6 | 0.79 | 698 | 13 | 700 | 13 | 705 | 34 | 99 |  |  |  |  |  |  |
| a88 | 23940 | 523 | 54 | 0.33 | 4153 | 0.09883 | 1.7 | 0.82034 | 2.7 | 0.06020 | 2.2 | 0.61 | 608 | 10 | 608 | 13 | 611 | 47 | 99 |  |  |  |  |  |  |
| a89 | 8291 | 84 | 10 | 0.08 | 180 | 0.09550 | 2.0 | 2.01713 | 8.5 | 0.15319 | 8.2 | 0.24 | 588 | 11 | 1121 | 59 | 2382 | 140 | 25 |  |  |  |  |  |  |
| a90 | 42416 | 515 | 56 | 0.24 | 151 | 0.08554 | 1.8 | 1.81157 | 4.0 | 0.15359 | 3.5 | 0.47 | 529 | 9 | 1050 | 26 | 2386 | 60 | 22 |  |  |  |  |  |  |
| a91 | 35535 | 402 | 48 | 0.32 | 426 | 0.10205 | 1.8 | 0.85854 | 6.8 | 0.06102 | 6.6 | 0.27 | 626 | 11 | 629 | 32 | 640 | 141 | 98 |  |  |  |  |  |  |
| a92 | 30186 | 416 | 38 | 0.25 | 343 | 0.07760 | 5.6 | 0.70256 | 7.7 | 0.06566 | 5.2 | 0.73 | 482 | 26 | 540 | 33 | 796 | 110 | 61 |  |  |  |  |  |  |
| a93 | 104083 | 273 | 119 | 0.35 | 31560 | 0.39489 | 2.0 | 7.40365 | 2.3 | 0.13598 | 1.0 | 0.89 | 2145 | 37 | 2161 | 21 | 2177 | 18 | 99 |  |  |  |  |  |  |
| a94 | 5385 | 15 | 5 | 1.81 | 53 | 0.11214 | 2.6 | 6.27644 | 4.9 | 0.40592 | 4.1 | 0.54 | 685 | 17 | 2015 | 44 | 3931 | 62 | 17 |  |  |  |  |  |  |
| a95 | 15759 | 247 | 36 | 0.81 | 524 | 0.11377 | 2.7 | 0.96638 | 7.5 | 0.06161 | 7.0 | 0.36 | 695 | 18 | 687 | 38 | 660 | 150 | 105 |  |  |  |  |  |  |
| a96 | 20806 | 406 | 49 | 0.34 | 5165 | 0.11215 | 1.8 | 0.97593 | 4.9 | 0.06311 | 4.5 | 0.37 | 685 | 12 | 692 | 25 | 712 | 96 | 96 |  |  |  |  |  |  |
| a98 | 101838 | 137 | 87 | 0.36 | 4508 | 0.53491 | 2.0 | 14.27064 | 2.2 | 0.19349 | 0.9 | 0.91 | 2762 | 46 | 2768 | 22 | 2772 | 15 | 100 |  |  |  |  |  |  |
| a99 | 4856 | 21 | 5 | 0.92 | 73 | 0.11437 | 3.2 | 4.91433 | 6.0 | 0.31164 | 5.1 | 0.53 | 698 | 21 | 1805 | 52 | 3529 | 78 | 20 |  |  |  |  |  |  |
| a100 | 51376 | 122 | 62 | 0.37 | 16328 | 0.45301 | 1.8 | 9.89957 | 3.2 | 0.15849 | 2.6 | 0.58 | 2409 | 37 | 2425 | 30 | 2440 | 43 | 99 |  |  |  |  |  |  |
| a101 | 122997 | 939 | 138 | 0.14 | 111 | 0.12000 | 1.8 | 1.07007 | 5.7 | 0.06468 | 5.4 | 0.31 | 731 | 12 | 739 | 31 | 764 | 115 | 96 |  |  |  |  |  |  |
| a102 | 10316 | 213 | 26 | 0.52 | 907 | 0.10551 | 2.2 | 0.89314 | 5.9 | 0.06139 | 5.5 | 0.37 | 647 | 13 | 648 | 29 | 653 | 119 | 99 |  |  |  |  |  |  |
| a103 | 54081 | 197 | 89 | 0.83 | 43117 | 0.35460 | 1.7 | 5.99799 | 2.0 | 0.12268 | 1.1 | 0.83 | 1957 | 28 | 1976 | 18 | 1996 | 20 | 98 |  |  |  |  |  |  |
| a104 | 3536 | 101 | 11 | 0.48 | 5858 | 0.09969 | 1.9 | 0.83528 | 4.4 | 0.06077 | 3.9 | 0.43 | 613 | 11 | 617 | 20 | 631 | 85 | 97 |  |  |  |  |  |  |
| a105 | 5211 | 22 | 5 | 0.28 | 82 | 0.12335 | 2.7 | 5.26807 | 5.3 | 0.30975 | 4.5 | 0.52 | 750 | 19 | 1864 | 46 | 3520 | 70 | 21 |  |  |  |  |  |  |
| a106 | 9292 | 225 | 27 | 0.54 | 3545 | 0.10491 | 2.0 | 0.89799 | 3.6 | 0.06208 | 3.1 | 0.54 | 643 | 12 | 651 | 18 | 677 | 65 | 95 |  |  |  |  |  |  |
| a107 | 17415 | 87 | 17 | 0.38 | 2771 | 0.15235 | 10.6 | 2.43939 | 11.6 | 0.11613 | 4.7 | 0.91 | 914 | 91 | 1254 | 87 | 1897 | 85 | 48 |  |  |  |  |  |  |
| a108 | 5744 | 163 | 15 | 0.12 | 9625 | 0.09446 | 2.1 | 0.78452 | 3.2 | 0.06024 | 2.5 | 0.65 | 582 | 12 | 588 | 14 | 612 | 53 | 95 |  |  |  |  |  |  |
| a109 | 21056 | 446 | 46 | 0.58 | 532 | 0.09164 | 2.4 | 0.74391 | 5.7 | 0.05887 | 5.1 | 0.43 | 565 | 13 | 565 | 25 | 562 | 112 | 100 |  |  |  |  |  |  |
| a110 | 5761 | 10 | 5 | 3.39 | 41 | 0.11434 | 7.5 | 8.42069 | 10.3 | 0.53414 | 7.1 | 0.72 | 698 | 50 | 2277 | 98 | 4338 | 104 | 16 |  |  |  |  |  |  |
| a111 | 58726 | 121 | 59 | 0.15 | 42913 | 0.45742 | 5.7 | 10.00317 | 8.2 | 0.15861 | 5.9 | 0.69 | 2428 | 115 | 2435 | 78 | 2441 | 100 | 99 |  |  |  |  |  |  |
| a112 | 16335 | 356 | 38 | 0.51 | 4079 | 0.09517 | 2.3 | 0.78321 | 3.6 | 0.05969 | 2.7 | 0.64 | 586 | 13 | 587 | 16 | 592 | 60 | 99 |  |  |  |  |  |  |
| a114 | 8334 | 181 | 33 | 0.11 | 722 | 0.18838 | 1.8 | 2.03148 | 5.8 | 0.07821 | 5.5 | 0.31 | 1113 | 18 | 1126 | 40 | 1152 | 109 | 97 |  |  |  |  |  |  |
| a115 | 10084 | 253 | 27 | 0.32 | 16718 | 0.09981 | 2.0 | 0.83889 | 2.9 | 0.06096 | 2.1 | 0.69 | 613 | 12 | 619 | 13 | 638 | 45 | 96 |  |  |  |  |  |  |
| a116 | 2495 | 10 | 3 | 0.83 | 86 | 0.13287 | 3.9 | 5.98406 | 6.3 | 0.32665 | 5.0 | 0.62 | 804 | 30 | 1974 | 56 | 3601 | 76 | 22 |  |  |  |  |  |  |
| a117 | 81301 | 367 | 121 | 0.11 | 4097 | 0.32779 | 2.3 | 5.09523 | 2.5 | 0.11274 | 1.0 | 0.92 | 1828 | 37 | 1835 | 21 | 1844 | 18 | 99 |  |  |  |  |  |  |
| a118 | 37855 | 848 | 87 | 0.29 | 1824 | 0.09782 | 1.8 | 0.81326 | 3.0 | 0.06030 | 2.5 | 0.58 | 602 | 10 | 604 | 14 | 614 | 53 | 98 |  |  |  |  |  |  |
| a119 | 9921 | 209 | 22 | 0.39 | 3548 | 0.10010 | 2.1 | 0.85092 | 3.0 | 0.06165 | 2.1 | 0.69 | 615 | 12 | 625 | 14 | 662 | 46 | 93 |  |  |  |  |  |  |
| a120 | 11597 | 237 | 24 | 0.34 | 5481 | 0.09852 | 2.1 | 0.82524 | 3.0 | 0.06075 | 2.2 | 0.69 | 606 | 12 | 611 | 14 | 630 | 47 | 96 |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Sample GV6, diamictite matrix (greywacke), upper Granville Formation, member 2, upper Ediacaran, Granville, Rue de Cap Lihou, Normandy, France, co-ordinates N 48° 50´0.94"; 1° 36´41.23"; elev. 22 m above sea level.** | | | | | | | | | | | | | | | | | | | | | | | | | |
| **GV6** | 207Pba | Ub | Pbb | Thb | 206Pbc | 206Pbc | 2 s | 207Pbc | 2 s | 207Pbc | 2 s | rhod | 206Pb | 2 s | 207Pb | 2 s | 207Pb | 2 s |  |  |  |  |  |  |  |
| Number | (cps) | (ppm) | (ppm) | U | 204Pb | 238U | % | 235U | % | 206Pb | % |  | 238U | (Ma) | 235U | (Ma) | 206Pb | (Ma) | conc % |  |  |  |  |  |  |
| a1 | 16888 | 314 | 31 | 0.47 | 28716 | 0.09436 | 7.0 | 0.77096 | 7.6 | 0.05926 | 2.9 | 0.92 | 581 | 39 | 580 | 34 | 577 | 63 | 101 |  |  |  |  |  |  |
| a2 | 6666 | 114 | 12 | 0.47 | 4702 | 0.10159 | 2.7 | 0.83836 | 4.3 | 0.05985 | 3.4 | 0.63 | 624 | 16 | 618 | 20 | 598 | 73 | 104 |  |  |  |  |  |  |
| a3 | 1216 | 16 | 2 | 0.83 | 1915 | 0.11776 | 3.8 | 1.03758 | 8.3 | 0.06390 | 7.3 | 0.46 | 718 | 26 | 723 | 44 | 738 | 155 | 97 |  |  |  |  |  |  |
| a4 | 4118 | 68 | 9 | 1.13 | 2180 | 0.10524 | 2.9 | 0.89717 | 4.7 | 0.06183 | 3.6 | 0.62 | 645 | 18 | 650 | 23 | 668 | 78 | 97 |  |  |  |  |  |  |
| a5 | 4242 | 37 | 7 | 0.52 | 3763 | 0.17521 | 2.8 | 1.77211 | 3.4 | 0.07336 | 1.9 | 0.83 | 1041 | 27 | 1035 | 22 | 1024 | 38 | 102 |  |  |  |  |  |  |
| a6 | 4242 | 37 | 7 | 0.52 | 3763 | 0.17519 | 2.8 | 1.77198 | 3.4 | 0.07336 | 1.9 | 0.83 | 1041 | 27 | 1035 | 22 | 1024 | 38 | 102 |  |  |  |  |  |  |
| a7 | 26646 | 54 | 25 | 1.14 | 21115 | 0.37822 | 2.8 | 6.63534 | 3.4 | 0.12724 | 1.9 | 0.84 | 2068 | 50 | 2064 | 30 | 2060 | 33 | 100 |  |  |  |  |  |  |
| a8 | 5207 | 95 | 10 | 0.51 | 5091 | 0.09728 | 3.3 | 0.79946 | 4.5 | 0.05960 | 3.0 | 0.74 | 598 | 19 | 597 | 20 | 589 | 66 | 102 |  |  |  |  |  |  |
| a9 | 17585 | 38 | 17 | 0.75 | 13942 | 0.39044 | 3.0 | 6.85746 | 3.4 | 0.12738 | 1.6 | 0.88 | 2125 | 54 | 2093 | 31 | 2062 | 29 | 103 |  |  |  |  |  |  |
| a11 | 12335 | 244 | 24 | 0.75 | 12277 | 0.09069 | 2.7 | 0.73633 | 3.3 | 0.05889 | 2.0 | 0.80 | 560 | 14 | 560 | 14 | 563 | 43 | 99 |  |  |  |  |  |  |
| a12 | 18767 | 36 | 17 | 0.70 | 6060 | 0.40287 | 3.1 | 7.27231 | 3.5 | 0.13092 | 1.7 | 0.88 | 2182 | 57 | 2145 | 32 | 2110 | 30 | 103 |  |  |  |  |  |  |
| a13 | 15973 | 138 | 25 | 0.76 | 2919 | 0.16232 | 3.2 | 1.61647 | 5.2 | 0.07223 | 4.1 | 0.62 | 970 | 29 | 977 | 33 | 992 | 84 | 98 |  |  |  |  |  |  |
| a14 | 15730 | 242 | 24 | 0.26 | 1025 | 0.09785 | 3.3 | 0.80924 | 4.4 | 0.05998 | 3.0 | 0.74 | 602 | 19 | 602 | 20 | 603 | 64 | 100 |  |  |  |  |  |  |
| a15 | 18545 | 214 | 26 | 1.22 | 515 | 0.09910 | 3.2 | 0.83731 | 6.3 | 0.06128 | 5.4 | 0.50 | 609 | 18 | 618 | 30 | 649 | 117 | 94 |  |  |  |  |  |  |
| a16 | 5703 | 101 | 11 | 0.63 | 9478 | 0.09903 | 3.0 | 0.82817 | 3.9 | 0.06066 | 2.6 | 0.76 | 609 | 17 | 613 | 18 | 627 | 55 | 97 |  |  |  |  |  |  |
| a17 | 6554 | 115 | 14 | 1.16 | 5049 | 0.10586 | 3.1 | 0.89392 | 3.9 | 0.06124 | 2.4 | 0.79 | 649 | 19 | 648 | 19 | 648 | 52 | 100 |  |  |  |  |  |  |
| a18 | 37748 | 320 | 43 | 0.14 | 1111 | 0.13164 | 3.3 | 1.79465 | 4.0 | 0.09888 | 2.4 | 0.81 | 797 | 25 | 1044 | 27 | 1603 | 44 | 50 |  |  |  |  |  |  |
| a19 | 8758 | 170 | 17 | 0.43 | 5250 | 0.09536 | 2.6 | 0.79191 | 3.6 | 0.06023 | 2.5 | 0.73 | 587 | 15 | 592 | 16 | 612 | 54 | 96 |  |  |  |  |  |  |
| a20 | 18927 | 52 | 16 | 0.65 | 14463 | 0.26078 | 3.3 | 4.74199 | 4.0 | 0.13188 | 2.3 | 0.81 | 1494 | 44 | 1775 | 35 | 2123 | 41 | 70 |  |  |  |  |  |  |
| a21 | 44925 | 104 | 53 | 1.87 | 6172 | 0.37004 | 2.9 | 6.36179 | 3.5 | 0.12469 | 1.9 | 0.84 | 2030 | 51 | 2027 | 31 | 2024 | 34 | 100 |  |  |  |  |  |  |
| a22 | 52336 | 121 | 52 | 0.90 | 16063 | 0.36405 | 2.8 | 6.35795 | 3.1 | 0.12667 | 1.3 | 0.91 | 2001 | 49 | 2026 | 27 | 2052 | 22 | 98 |  |  |  |  |  |  |
| a23 | 6268 | 108 | 13 | 0.80 | 10323 | 0.10676 | 3.0 | 0.90245 | 4.0 | 0.06131 | 2.7 | 0.75 | 654 | 19 | 653 | 20 | 650 | 57 | 101 |  |  |  |  |  |  |
| a24 | 6071 | 68 | 10 | 0.22 | 3192 | 0.14408 | 2.6 | 1.38400 | 4.0 | 0.06967 | 3.0 | 0.66 | 868 | 22 | 882 | 24 | 919 | 62 | 94 |  |  |  |  |  |  |
| a25 | 17868 | 52 | 21 | 1.20 | 16502 | 0.34754 | 2.4 | 5.22466 | 3.4 | 0.10903 | 2.3 | 0.72 | 1923 | 40 | 1857 | 29 | 1783 | 43 | 108 |  |  |  |  |  |  |
| a26 | 3905 | 73 | 9 | 1.44 | 2167 | 0.10160 | 2.8 | 0.87252 | 5.0 | 0.06228 | 4.2 | 0.56 | 624 | 17 | 637 | 24 | 684 | 89 | 91 |  |  |  |  |  |  |
| a27 | 99433 | 162 | 95 | 2.11 | 73637 | 0.41693 | 3.1 | 7.82628 | 3.2 | 0.13614 | 1.0 | 0.95 | 2247 | 59 | 2211 | 30 | 2179 | 18 | 103 |  |  |  |  |  |  |
| a28 | 34522 | 44 | 24 | 0.42 | 19778 | 0.49752 | 2.9 | 12.06266 | 3.5 | 0.17585 | 1.8 | 0.85 | 2603 | 63 | 2609 | 33 | 2614 | 31 | 100 |  |  |  |  |  |  |
| a29 | 61021 | 73 | 47 | 0.77 | 5334 | 0.55499 | 2.7 | 14.08146 | 3.4 | 0.18402 | 2.0 | 0.81 | 2846 | 63 | 2755 | 33 | 2689 | 33 | 106 |  |  |  |  |  |  |
| a30 | 7338 | 136 | 16 | 0.83 | 12019 | 0.10382 | 2.9 | 0.88081 | 4.1 | 0.06153 | 2.8 | 0.72 | 637 | 18 | 641 | 20 | 658 | 60 | 97 |  |  |  |  |  |  |
| a31 | 14119 | 35 | 17 | 1.34 | 4756 | 0.37427 | 3.2 | 6.64088 | 3.8 | 0.12869 | 2.0 | 0.84 | 2049 | 57 | 2065 | 34 | 2080 | 36 | 99 |  |  |  |  |  |  |
| a32 | 5677 | 103 | 11 | 0.51 | 7576 | 0.10526 | 2.9 | 0.89029 | 4.1 | 0.06135 | 2.9 | 0.71 | 645 | 18 | 647 | 20 | 651 | 62 | 99 |  |  |  |  |  |  |
| a33 | 14258 | 131 | 19 | 0.22 | 8047 | 0.14410 | 4.4 | 1.60613 | 6.2 | 0.08084 | 4.4 | 0.70 | 868 | 36 | 973 | 40 | 1218 | 87 | 71 |  |  |  |  |  |  |
| a34 | 44881 | 444 | 52 | 0.36 | 250 | 0.10059 | 3.5 | 1.63755 | 5.3 | 0.11807 | 4.0 | 0.65 | 618 | 20 | 985 | 34 | 1927 | 72 | 32 |  |  |  |  |  |  |
| a35 | 2993 | 62 | 7 | 0.74 | 2703 | 0.09921 | 2.9 | 0.83304 | 4.5 | 0.06090 | 3.4 | 0.64 | 610 | 17 | 615 | 21 | 636 | 74 | 96 |  |  |  |  |  |  |
| a36 | 7410 | 126 | 17 | 1.52 | 3966 | 0.10980 | 2.8 | 0.95756 | 4.3 | 0.06325 | 3.2 | 0.67 | 672 | 18 | 682 | 21 | 717 | 68 | 94 |  |  |  |  |  |  |
| a37 | 6264 | 118 | 16 | 1.63 | 10090 | 0.10380 | 2.7 | 0.89624 | 4.5 | 0.06262 | 3.7 | 0.59 | 637 | 16 | 650 | 22 | 695 | 78 | 92 |  |  |  |  |  |  |
| a38 | 4634 | 88 | 8 | 0.40 | 4682 | 0.09264 | 2.8 | 0.76866 | 4.4 | 0.06018 | 3.5 | 0.63 | 571 | 15 | 579 | 20 | 610 | 75 | 94 |  |  |  |  |  |  |
| a39 | 11565 | 254 | 25 | 0.64 | 19572 | 0.09181 | 3.0 | 0.75356 | 4.2 | 0.05953 | 3.0 | 0.70 | 566 | 16 | 570 | 19 | 587 | 65 | 97 |  |  |  |  |  |  |
| a40 | 96075 | 49 | 45 | 0.73 | 31957 | 0.71749 | 3.0 | 29.96604 | 3.2 | 0.30291 | 1.2 | 0.93 | 3487 | 81 | 3486 | 32 | 3485 | 19 | 100 |  |  |  |  |  |  |
| a41 | 16012 | 135 | 21 | 1.40 | 204 | 0.11484 | 3.0 | 2.10282 | 13.5 | 0.13280 | 13.1 | 0.22 | 701 | 20 | 1150 | 97 | 2135 | 230 | 33 |  |  |  |  |  |  |
| a42 | 10100 | 222 | 22 | 0.39 | 17246 | 0.09754 | 2.9 | 0.79581 | 5.6 | 0.05917 | 4.8 | 0.51 | 600 | 16 | 594 | 25 | 574 | 104 | 105 |  |  |  |  |  |  |
| a43 | 23096 | 69 | 27 | 0.73 | 9711 | 0.34897 | 2.9 | 5.59998 | 3.4 | 0.11638 | 1.6 | 0.87 | 1930 | 49 | 1916 | 29 | 1901 | 30 | 101 |  |  |  |  |  |  |
| a44 | 16208 | 301 | 32 | 0.66 | 2270 | 0.09763 | 3.4 | 0.80664 | 4.1 | 0.05992 | 2.4 | 0.82 | 601 | 19 | 601 | 19 | 601 | 51 | 100 |  |  |  |  |  |  |
| a45 | 12445 | 260 | 27 | 0.35 | 8060 | 0.10266 | 3.1 | 0.87170 | 4.3 | 0.06158 | 3.0 | 0.72 | 630 | 18 | 636 | 20 | 660 | 63 | 96 |  |  |  |  |  |  |
| a46 | 13347 | 284 | 29 | 0.69 | 22597 | 0.09357 | 2.7 | 0.76821 | 3.3 | 0.05954 | 1.8 | 0.84 | 577 | 15 | 579 | 15 | 587 | 39 | 98 |  |  |  |  |  |  |
| a47 | 32488 | 78 | 35 | 0.80 | 25331 | 0.38700 | 2.8 | 6.90285 | 3.3 | 0.12937 | 1.6 | 0.87 | 2109 | 51 | 2099 | 29 | 2089 | 28 | 101 |  |  |  |  |  |  |
| a48 | 31991 | 78 | 35 | 0.80 | 24782 | 0.38697 | 2.8 | 6.94537 | 3.2 | 0.13017 | 1.4 | 0.89 | 2109 | 51 | 2104 | 29 | 2100 | 25 | 100 |  |  |  |  |  |  |
| a49 | 7206 | 152 | 15 | 0.47 | 12150 | 0.09507 | 3.2 | 0.78179 | 4.3 | 0.05964 | 2.9 | 0.74 | 585 | 18 | 587 | 20 | 591 | 64 | 99 |  |  |  |  |  |  |
| a50 | 41817 | 508 | 90 | 1.10 | 3026 | 0.15643 | 2.9 | 1.53110 | 4.1 | 0.07099 | 3.0 | 0.70 | 937 | 25 | 943 | 26 | 957 | 61 | 98 |  |  |  |  |  |  |
| a51 | 14661 | 192 | 21 | 0.50 | 370 | 0.09713 | 2.8 | 0.81003 | 5.5 | 0.06048 | 4.8 | 0.50 | 598 | 16 | 602 | 25 | 621 | 103 | 96 |  |  |  |  |  |  |
| a52 | 149537 | 132 | 97 | 0.83 | 25512 | 0.59707 | 3.1 | 18.52335 | 3.3 | 0.22501 | 1.1 | 0.94 | 3018 | 75 | 3017 | 32 | 3017 | 17 | 100 |  |  |  |  |  |  |
| a53 | 3876 | 75 | 10 | 1.80 | 4917 | 0.10362 | 3.2 | 0.86746 | 4.7 | 0.06072 | 3.4 | 0.69 | 636 | 20 | 634 | 22 | 629 | 73 | 101 |  |  |  |  |  |  |
| a54 | 415 | 8 | 1 | 0.39 | 599 | 0.09432 | 3.5 | 0.92224 | 12.4 | 0.07091 | 11.9 | 0.28 | 581 | 20 | 664 | 62 | 955 | 243 | 61 |  |  |  |  |  |  |
| a55 | 24515 | 239 | 33 | 0.55 | 257 | 0.11467 | 3.0 | 1.85798 | 6.1 | 0.11751 | 5.3 | 0.50 | 700 | 20 | 1066 | 41 | 1919 | 95 | 36 |  |  |  |  |  |  |
| a56 | 308368 | 532 | 284 | 0.20 | 1462 | 0.50303 | 2.9 | 12.67895 | 3.5 | 0.18281 | 2.0 | 0.82 | 2627 | 63 | 2656 | 34 | 2678 | 33 | 98 |  |  |  |  |  |  |
| a57 | 9786 | 196 | 21 | 0.83 | 15061 | 0.09612 | 3.3 | 0.79439 | 3.9 | 0.05994 | 2.1 | 0.85 | 592 | 19 | 594 | 18 | 601 | 45 | 98 |  |  |  |  |  |  |
| a58 | 5138 | 111 | 13 | 1.09 | 6814 | 0.09782 | 3.0 | 0.81694 | 7.2 | 0.06057 | 6.6 | 0.41 | 602 | 17 | 606 | 34 | 624 | 143 | 96 |  |  |  |  |  |  |
| a59 | 7931 | 152 | 21 | 1.39 | 12832 | 0.11165 | 2.8 | 0.95860 | 3.6 | 0.06227 | 2.3 | 0.77 | 682 | 18 | 683 | 18 | 683 | 50 | 100 |  |  |  |  |  |  |
| a60 | 5975 | 129 | 14 | 0.79 | 2573 | 0.09708 | 2.8 | 0.80203 | 4.7 | 0.05992 | 3.8 | 0.58 | 597 | 16 | 598 | 22 | 601 | 83 | 99 |  |  |  |  |  |  |
| a61 | 2477 | 50 | 7 | 1.41 | 3215 | 0.10450 | 2.8 | 0.88033 | 4.3 | 0.06110 | 3.3 | 0.64 | 641 | 17 | 641 | 21 | 643 | 71 | 100 |  |  |  |  |  |  |
| a62 | 5075 | 75 | 10 | 0.91 | 616 | 0.10920 | 3.1 | 0.93478 | 7.1 | 0.06209 | 6.4 | 0.44 | 668 | 20 | 670 | 36 | 677 | 137 | 99 |  |  |  |  |  |  |
| a63 | 10120 | 181 | 25 | 2.18 | 1021 | 0.09868 | 2.8 | 0.81944 | 5.5 | 0.06023 | 4.8 | 0.51 | 607 | 16 | 608 | 26 | 612 | 103 | 99 |  |  |  |  |  |  |
| a64 | 9634 | 226 | 22 | 0.42 | 9493 | 0.09783 | 2.8 | 0.81710 | 4.0 | 0.06058 | 2.9 | 0.70 | 602 | 16 | 606 | 19 | 624 | 62 | 96 |  |  |  |  |  |  |
| a65 | 22767 | 444 | 44 | 0.66 | 1430 | 0.09124 | 2.9 | 0.74692 | 3.7 | 0.05937 | 2.3 | 0.77 | 563 | 15 | 566 | 16 | 581 | 51 | 97 |  |  |  |  |  |  |
| a66 | 14135 | 275 | 27 | 0.04 | 3310 | 0.10456 | 3.0 | 0.87967 | 4.2 | 0.06102 | 3.0 | 0.71 | 641 | 18 | 641 | 20 | 640 | 63 | 100 |  |  |  |  |  |  |
| a67 | 16601 | 273 | 31 | 0.74 | 788 | 0.10313 | 3.0 | 0.86380 | 6.9 | 0.06075 | 6.2 | 0.44 | 633 | 18 | 632 | 33 | 630 | 133 | 100 |  |  |  |  |  |  |
| a68 | 34110 | 484 | 57 | 0.64 | 415 | 0.10319 | 2.7 | 0.87134 | 4.3 | 0.06125 | 3.4 | 0.63 | 633 | 16 | 636 | 21 | 648 | 72 | 98 |  |  |  |  |  |  |
| a69 | 46471 | 118 | 48 | 0.35 | 15627 | 0.38261 | 3.2 | 6.91145 | 3.5 | 0.13101 | 1.3 | 0.93 | 2088 | 58 | 2100 | 31 | 2112 | 22 | 99 |  |  |  |  |  |  |
| a70 | 62212 | 176 | 71 | 0.44 | 37700 | 0.37902 | 3.1 | 6.84055 | 3.4 | 0.13090 | 1.4 | 0.91 | 2072 | 55 | 2091 | 30 | 2110 | 25 | 98 |  |  |  |  |  |  |
| a71 | 14438 | 303 | 31 | 0.18 | 23680 | 0.10666 | 3.4 | 0.90356 | 4.1 | 0.06144 | 2.4 | 0.81 | 653 | 21 | 654 | 20 | 655 | 52 | 100 |  |  |  |  |  |  |
| a72 | 7669 | 189 | 18 | 0.41 | 12505 | 0.09645 | 3.3 | 0.79308 | 4.3 | 0.05963 | 2.7 | 0.77 | 594 | 19 | 593 | 19 | 590 | 59 | 101 |  |  |  |  |  |  |
| a73 | 14250 | 315 | 37 | 1.30 | 2683 | 0.09537 | 3.0 | 0.78712 | 4.3 | 0.05986 | 3.1 | 0.69 | 587 | 17 | 590 | 19 | 598 | 68 | 98 |  |  |  |  |  |  |
| a74 | 2966 | 74 | 8 | 1.16 | 4967 | 0.09681 | 2.8 | 0.80171 | 4.6 | 0.06006 | 3.7 | 0.61 | 596 | 16 | 598 | 21 | 606 | 79 | 98 |  |  |  |  |  |  |
| a75 | 4657 | 73 | 11 | 0.58 | 2366 | 0.13555 | 3.2 | 1.24815 | 4.4 | 0.06679 | 3.0 | 0.74 | 819 | 25 | 823 | 25 | 831 | 62 | 99 |  |  |  |  |  |  |
| a76 | 5548 | 131 | 14 | 0.64 | 9107 | 0.09978 | 3.0 | 0.84466 | 4.2 | 0.06140 | 3.0 | 0.71 | 613 | 18 | 622 | 20 | 653 | 64 | 94 |  |  |  |  |  |  |
| a77 | 167032 | 374 | 185 | 0.39 | 1362 | 0.45744 | 2.9 | 10.65789 | 3.0 | 0.16898 | 1.0 | 0.94 | 2428 | 58 | 2494 | 29 | 2548 | 18 | 95 |  |  |  |  |  |  |
| a78 | 59090 | 101 | 54 | 0.40 | 3188 | 0.47837 | 2.5 | 10.86456 | 3.6 | 0.16472 | 2.6 | 0.70 | 2520 | 53 | 2512 | 34 | 2505 | 43 | 101 |  |  |  |  |  |  |
| a79 | 29400 | 434 | 42 | 0.45 | 331 | 0.08370 | 3.6 | 1.11669 | 8.7 | 0.09676 | 7.9 | 0.41 | 518 | 18 | 761 | 48 | 1563 | 148 | 33 |  |  |  |  |  |  |
| a80 | 19617 | 51 | 22 | 0.64 | 8041 | 0.38703 | 3.3 | 7.11250 | 3.8 | 0.13328 | 1.9 | 0.86 | 2109 | 59 | 2126 | 34 | 2142 | 34 | 98 |  |  |  |  |  |  |
| a81 | 31586 | 534 | 56 | 0.45 | 434 | 0.09675 | 2.9 | 0.80747 | 4.0 | 0.06053 | 2.8 | 0.71 | 595 | 16 | 601 | 18 | 623 | 61 | 96 |  |  |  |  |  |  |
| a82 | 19224 | 366 | 39 | 0.72 | 740 | 0.09528 | 2.9 | 0.78250 | 4.8 | 0.05956 | 3.9 | 0.60 | 587 | 16 | 587 | 22 | 588 | 84 | 100 |  |  |  |  |  |  |
| a83 | 6654 | 165 | 17 | 0.85 | 11175 | 0.09388 | 3.2 | 0.77522 | 3.9 | 0.05989 | 2.3 | 0.81 | 578 | 17 | 583 | 17 | 600 | 50 | 96 |  |  |  |  |  |  |
| a84 | 5331 | 142 | 16 | 0.91 | 8879 | 0.10056 | 2.5 | 0.83774 | 4.5 | 0.06042 | 3.8 | 0.56 | 618 | 15 | 618 | 21 | 619 | 81 | 100 |  |  |  |  |  |  |
| a85 | 41086 | 125 | 50 | 0.42 | 19801 | 0.37099 | 2.9 | 6.59877 | 4.2 | 0.12900 | 3.0 | 0.68 | 2034 | 50 | 2059 | 38 | 2084 | 54 | 98 |  |  |  |  |  |  |
| a86 | 14122 | 318 | 31 | 0.06 | 23340 | 0.10405 | 2.7 | 0.87520 | 3.3 | 0.06101 | 1.9 | 0.81 | 638 | 16 | 638 | 16 | 639 | 41 | 100 |  |  |  |  |  |  |
| a87 | 24069 | 500 | 52 | 0.08 | 38826 | 0.11165 | 3.0 | 0.96111 | 3.3 | 0.06243 | 1.3 | 0.91 | 682 | 19 | 684 | 17 | 689 | 29 | 99 |  |  |  |  |  |  |
| a88 | 20835 | 510 | 55 | 0.82 | 2360 | 0.09701 | 3.1 | 0.80340 | 4.1 | 0.06007 | 2.6 | 0.76 | 597 | 18 | 599 | 19 | 606 | 57 | 98 |  |  |  |  |  |  |
| a89 | 24865 | 235 | 50 | 1.12 | 1123 | 0.17526 | 2.7 | 1.78403 | 4.3 | 0.07383 | 3.4 | 0.62 | 1041 | 26 | 1040 | 28 | 1037 | 68 | 100 |  |  |  |  |  |  |
| a90 | 18421 | 379 | 41 | 0.44 | 2432 | 0.10494 | 3.0 | 0.88514 | 5.0 | 0.06118 | 4.1 | 0.59 | 643 | 18 | 644 | 24 | 645 | 88 | 100 |  |  |  |  |  |  |
| a91 | 21853 | 484 | 52 | 0.72 | 1085 | 0.09678 | 2.7 | 0.80092 | 4.4 | 0.06002 | 3.5 | 0.62 | 595 | 16 | 597 | 20 | 604 | 75 | 99 |  |  |  |  |  |  |
| a92 | 4623 | 120 | 13 | 1.12 | 7836 | 0.09398 | 3.1 | 0.76846 | 4.6 | 0.05930 | 3.3 | 0.68 | 579 | 17 | 579 | 20 | 578 | 73 | 100 |  |  |  |  |  |  |
| a93 | 8529 | 203 | 26 | 1.36 | 14082 | 0.10417 | 2.9 | 0.87579 | 3.8 | 0.06098 | 2.5 | 0.76 | 639 | 18 | 639 | 18 | 638 | 53 | 100 |  |  |  |  |  |  |
| a94 | 3332 | 83 | 11 | 1.39 | 5451 | 0.10436 | 3.1 | 0.88537 | 4.4 | 0.06153 | 3.1 | 0.71 | 640 | 19 | 644 | 21 | 658 | 66 | 97 |  |  |  |  |  |  |
| a95 | 11529 | 266 | 29 | 0.29 | 18298 | 0.11077 | 2.8 | 0.97024 | 3.8 | 0.06353 | 2.6 | 0.73 | 677 | 18 | 689 | 19 | 726 | 55 | 93 |  |  |  |  |  |  |
| a96 | 6824 | 113 | 16 | 1.16 | 591 | 0.12041 | 3.2 | 1.06142 | 13.6 | 0.06393 | 13.2 | 0.23 | 733 | 22 | 735 | 74 | 739 | 280 | 99 |  |  |  |  |  |  |
| a97 | 13772 | 336 | 41 | 0.84 | 7718 | 0.11099 | 2.6 | 0.94955 | 3.4 | 0.06205 | 2.2 | 0.77 | 678 | 17 | 678 | 17 | 676 | 46 | 100 |  |  |  |  |  |  |
| a98 | 12993 | 361 | 35 | 0.45 | 21736 | 0.09374 | 2.7 | 0.77725 | 3.6 | 0.06014 | 2.4 | 0.74 | 578 | 15 | 584 | 16 | 608 | 52 | 95 |  |  |  |  |  |  |
| a99 | 11108 | 299 | 31 | 0.44 | 18329 | 0.10091 | 2.8 | 0.84970 | 3.8 | 0.06107 | 2.6 | 0.74 | 620 | 17 | 624 | 18 | 642 | 55 | 97 |  |  |  |  |  |  |
| a100 | 11510 | 322 | 32 | 0.48 | 19477 | 0.09542 | 2.8 | 0.78461 | 3.7 | 0.05963 | 2.3 | 0.78 | 588 | 16 | 588 | 16 | 590 | 50 | 100 |  |  |  |  |  |  |
| a101 | 9730 | 249 | 30 | 0.79 | 13034 | 0.10997 | 2.8 | 0.92618 | 3.8 | 0.06108 | 2.6 | 0.73 | 673 | 18 | 666 | 19 | 642 | 57 | 105 |  |  |  |  |  |  |
| a102 | 18954 | 411 | 45 | 0.29 | 1417 | 0.10987 | 2.6 | 0.92609 | 4.1 | 0.06113 | 3.2 | 0.63 | 672 | 16 | 666 | 20 | 644 | 69 | 104 |  |  |  |  |  |  |
| a103 | 4573 | 127 | 13 | 0.53 | 3197 | 0.09752 | 2.8 | 0.80840 | 5.1 | 0.06012 | 4.2 | 0.55 | 600 | 16 | 602 | 23 | 608 | 92 | 99 |  |  |  |  |  |  |
| a104 | 125174 | 252 | 149 | 0.48 | 67597 | 0.52209 | 2.4 | 13.42938 | 2.6 | 0.18656 | 1.0 | 0.92 | 2708 | 53 | 2710 | 25 | 2712 | 17 | 100 |  |  |  |  |  |  |
| a105 | 13554 | 308 | 42 | 1.16 | 9938 | 0.11465 | 2.8 | 1.01118 | 3.5 | 0.06397 | 2.1 | 0.80 | 700 | 19 | 709 | 18 | 740 | 45 | 94 |  |  |  |  |  |  |
| a106 | 43973 | 67 | 43 | 0.38 | 20741 | 0.57622 | 2.7 | 16.96939 | 3.1 | 0.21359 | 1.3 | 0.90 | 2933 | 65 | 2933 | 30 | 2933 | 21 | 100 |  |  |  |  |  |  |
| a107 | 376853 | 376 | 275 | 0.32 | 30845 | 0.63413 | 2.7 | 22.81055 | 2.8 | 0.26089 | 0.7 | 0.97 | 3166 | 69 | 3219 | 28 | 3252 | 11 | 97 |  |  |  |  |  |  |
| a108 | 6113 | 178 | 20 | 1.00 | 3302 | 0.09900 | 2.8 | 0.82614 | 4.0 | 0.06052 | 2.8 | 0.71 | 609 | 17 | 611 | 19 | 622 | 61 | 98 |  |  |  |  |  |  |
| a109 | 24365 | 365 | 57 | 1.55 | 319 | 0.10403 | 2.9 | 0.88561 | 8.8 | 0.06174 | 8.3 | 0.33 | 638 | 18 | 644 | 43 | 665 | 179 | 96 |  |  |  |  |  |  |
| a110 | 2838 | 74 | 9 | 0.74 | 1548 | 0.10924 | 3.7 | 0.95382 | 5.7 | 0.06333 | 4.2 | 0.66 | 668 | 24 | 680 | 28 | 719 | 90 | 93 |  |  |  |  |  |  |
| a111 | 2312 | 68 | 8 | 0.85 | 3882 | 0.09949 | 3.1 | 0.82419 | 6.0 | 0.06008 | 5.2 | 0.51 | 611 | 18 | 610 | 28 | 606 | 113 | 101 |  |  |  |  |  |  |
| a112 | 10263 | 318 | 38 | 1.57 | 17441 | 0.09458 | 2.7 | 0.77269 | 3.4 | 0.05925 | 2.2 | 0.78 | 583 | 15 | 581 | 15 | 576 | 47 | 101 |  |  |  |  |  |  |
| a113 | 8643 | 225 | 27 | 0.90 | 13963 | 0.10447 | 2.8 | 0.89778 | 4.6 | 0.06233 | 3.6 | 0.62 | 641 | 17 | 651 | 22 | 685 | 76 | 93 |  |  |  |  |  |  |
| a114 | 8028 | 235 | 25 | 0.59 | 8288 | 0.10020 | 2.8 | 0.82736 | 3.9 | 0.05989 | 2.6 | 0.73 | 616 | 17 | 612 | 18 | 599 | 57 | 103 |  |  |  |  |  |  |
| a115 | 90950 | 88 | 79 | 1.06 | 33305 | 0.68061 | 2.8 | 25.85014 | 3.0 | 0.27546 | 1.1 | 0.93 | 3347 | 72 | 3341 | 29 | 3337 | 17 | 100 |  |  |  |  |  |  |
| a116 | 12702 | 328 | 36 | 0.60 | 2268 | 0.10314 | 2.7 | 0.86395 | 6.4 | 0.06075 | 5.8 | 0.43 | 633 | 17 | 632 | 31 | 630 | 125 | 100 |  |  |  |  |  |  |
| a117 | 64786 | 214 | 82 | 0.25 | 1484 | 0.37895 | 4.6 | 6.94197 | 5.1 | 0.13286 | 2.3 | 0.90 | 2071 | 82 | 2104 | 47 | 2136 | 39 | 97 |  |  |  |  |  |  |
| a118 | 9417 | 272 | 29 | 0.81 | 4170 | 0.09550 | 3.0 | 0.79628 | 4.2 | 0.06047 | 3.0 | 0.71 | 588 | 17 | 595 | 19 | 620 | 64 | 95 |  |  |  |  |  |  |
| a119 | 7562 | 186 | 26 | 1.28 | 5128 | 0.11807 | 2.7 | 1.02725 | 4.3 | 0.06310 | 3.4 | 0.62 | 719 | 18 | 718 | 22 | 712 | 72 | 101 |  |  |  |  |  |  |
| a120 | 24771 | 349 | 44 | 0.96 | 230 | 0.10219 | 3.2 | 0.85349 | 8.3 | 0.06057 | 7.7 | 0.38 | 627 | 19 | 627 | 40 | 624 | 166 | 100 |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Sample GV16, conglomerate (marker horizon), upper Granville Formation, member 2, upper Ediacaran, Granville, Rue de Cap Lihou, Normandy, France, co-ordinates N 48° 50´1.28"; 1° 36´42.63"; elev. 23 m above sea level.** | | | | | | | | | | | | | | | | | | | | | | | | | |
| **GV16** | 207Pba | Ub | Pbb | Thb | 206Pbc | 206Pbc | 2 s | 207Pbc | 2 s | 207Pbc | 2 s | rhod | 206Pb | 2 s | 207Pb | 2 s | 207Pb | 2 s |  |  |  |  |  |  |  |
| Number | (cps) | (ppm) | (ppm) | U | 204Pb | 238U | % | 235U | % | 206Pb | % |  | 238U | (Ma) | 235U | (Ma) | 206Pb | (Ma) | conc % |  |  |  |  |  |  |
| a121 | 4447 | 11 | 5 | 1.03 | 54 | 0.20681 | 6.1 | 11.19854 | 9.8 | 0.39273 | 7.7 | 0.62 | 1212 | 68 | 2540 | 96 | 3881 | 116 | 31 |  |  |  |  |  |  |
| a122 | 12892 | 325 | 29 | 0.16 | 2815 | 0.09059 | 2.6 | 0.73895 | 4.9 | 0.05916 | 4.1 | 0.54 | 559 | 14 | 562 | 21 | 573 | 89 | 98 |  |  |  |  |  |  |
| a123 | 42742 | 119 | 45 | 0.25 | 6218 | 0.35116 | 2.0 | 5.83568 | 3.0 | 0.12053 | 2.1 | 0.69 | 1940 | 34 | 1952 | 26 | 1964 | 38 | 99 |  |  |  |  |  |  |
| a124 | 25071 | 278 | 49 | 0.18 | 2084 | 0.17250 | 1.8 | 1.74444 | 2.6 | 0.07334 | 1.9 | 0.69 | 1026 | 17 | 1025 | 17 | 1023 | 39 | 100 |  |  |  |  |  |  |
| a125 | 16543 | 263 | 30 | 0.47 | 348 | 0.09570 | 2.3 | 0.78471 | 7.4 | 0.05947 | 7.0 | 0.31 | 589 | 13 | 588 | 34 | 584 | 153 | 101 |  |  |  |  |  |  |
| a126 | 6886 | 168 | 20 | 0.48 | 11094 | 0.10656 | 1.8 | 0.91942 | 3.3 | 0.06258 | 2.7 | 0.55 | 653 | 11 | 662 | 16 | 694 | 59 | 94 |  |  |  |  |  |  |
| a127 | 12820 | 7 | 9 | 1.20 | 22 | 0.34306 | 6.6 | 35.26912 | 7.0 | 0.74562 | 2.5 | 0.93 | 1901 | 109 | 3646 | 72 | 4821 | 36 | 39 |  |  |  |  |  |  |
| a129 | 7891 | 165 | 22 | 0.45 | 6118 | 0.11998 | 2.0 | 1.08297 | 2.6 | 0.06547 | 1.6 | 0.76 | 730 | 14 | 745 | 14 | 789 | 35 | 93 |  |  |  |  |  |  |
| a130 | 11441 | 287 | 31 | 0.41 | 15604 | 0.09829 | 1.9 | 0.82049 | 2.7 | 0.06054 | 1.9 | 0.70 | 604 | 11 | 608 | 13 | 623 | 42 | 97 |  |  |  |  |  |  |
| a131 | 4185 | 102 | 10 | 0.52 | 4323 | 0.08769 | 2.4 | 0.86021 | 4.6 | 0.07115 | 3.9 | 0.53 | 542 | 13 | 630 | 22 | 962 | 80 | 56 |  |  |  |  |  |  |
| a132 | 8054 | 245 | 24 | 0.27 | 4500 | 0.09741 | 2.6 | 0.80574 | 3.6 | 0.05999 | 2.5 | 0.72 | 599 | 15 | 600 | 16 | 603 | 54 | 99 |  |  |  |  |  |  |
| a133 | 39048 | 117 | 47 | 0.19 | 18675 | 0.38315 | 2.1 | 6.94817 | 2.4 | 0.13152 | 1.3 | 0.84 | 2091 | 37 | 2105 | 22 | 2118 | 23 | 99 |  |  |  |  |  |  |
| a134 | 4699 | 3 | 6 | 9.25 | 55 | 0.55945 | 10.1 | 48.46881 | 13.2 | 0.62835 | 8.6 | 0.76 | 2864 | 238 | 3961 | 141 | 4575 | 124 | 63 |  |  |  |  |  |  |
| a135 | 9194 | 273 | 27 | 0.33 | 9239 | 0.09377 | 1.9 | 0.77447 | 3.1 | 0.05990 | 2.4 | 0.63 | 578 | 11 | 582 | 14 | 600 | 52 | 96 |  |  |  |  |  |  |
| a136 | 10747 | 297 | 28 | 0.12 | 3198 | 0.09727 | 1.8 | 0.80944 | 5.1 | 0.06035 | 4.7 | 0.36 | 598 | 11 | 602 | 23 | 616 | 102 | 97 |  |  |  |  |  |  |
| a138 | 126185 | 890 | 130 | 0.52 | 87 | 0.09114 | 1.9 | 0.74229 | 6.8 | 0.05907 | 6.5 | 0.28 | 562 | 10 | 564 | 30 | 570 | 142 | 99 |  |  |  |  |  |  |
| a139 | 9646 | 302 | 32 | 0.33 | 15772 | 0.10005 | 2.0 | 0.85146 | 3.1 | 0.06172 | 2.4 | 0.64 | 615 | 12 | 625 | 15 | 665 | 52 | 93 |  |  |  |  |  |  |
| a140 | 12940 | 300 | 17 | 0.64 | 338 | 0.04203 | 3.5 | 0.57571 | 9.8 | 0.09933 | 9.2 | 0.36 | 265 | 9 | 462 | 37 | 1612 | 171 | 16 |  |  |  |  |  |  |
| a141 | 86092 | 339 | 64 | 0.32 | 3863 | 0.15278 | 3.9 | 3.41022 | 4.2 | 0.16188 | 1.7 | 0.92 | 917 | 33 | 1507 | 34 | 2475 | 28 | 37 |  |  |  |  |  |  |
| a142 | 9938 | 309 | 32 | 0.32 | 4961 | 0.09862 | 2.2 | 0.82142 | 3.8 | 0.06041 | 3.1 | 0.59 | 606 | 13 | 609 | 18 | 618 | 66 | 98 |  |  |  |  |  |  |
| a143 | 28814 | 636 | 69 | 0.44 | 737 | 0.09254 | 3.4 | 0.76770 | 4.6 | 0.06017 | 3.1 | 0.74 | 571 | 19 | 578 | 20 | 610 | 66 | 94 |  |  |  |  |  |  |
| a144 | 3743 | 98 | 11 | 0.29 | 6072 | 0.11177 | 2.4 | 0.95957 | 4.4 | 0.06227 | 3.7 | 0.54 | 683 | 15 | 683 | 22 | 683 | 80 | 100 |  |  |  |  |  |  |
| a145 | 13778 | 438 | 42 | 0.13 | 5728 | 0.09835 | 1.8 | 0.81620 | 4.8 | 0.06019 | 4.4 | 0.38 | 605 | 11 | 606 | 22 | 611 | 95 | 99 |  |  |  |  |  |  |
| a146 | 5615 | 177 | 21 | 0.68 | 4803 | 0.09747 | 2.1 | 0.80977 | 3.4 | 0.06025 | 2.7 | 0.61 | 600 | 12 | 602 | 16 | 613 | 58 | 98 |  |  |  |  |  |  |
| a147 | 6988 | 224 | 27 | 1.06 | 4329 | 0.09124 | 2.0 | 0.74173 | 2.9 | 0.05896 | 2.1 | 0.69 | 563 | 11 | 563 | 13 | 566 | 46 | 100 |  |  |  |  |  |  |
| a148 | 115779 | 262 | 140 | 0.26 | 1142 | 0.49551 | 1.9 | 12.17628 | 2.1 | 0.17822 | 0.9 | 0.91 | 2594 | 40 | 2618 | 20 | 2636 | 14 | 98 |  |  |  |  |  |  |
| a149 | 14066 | 394 | 48 | 0.55 | 3964 | 0.10706 | 2.3 | 0.91622 | 3.4 | 0.06207 | 2.5 | 0.67 | 656 | 14 | 660 | 17 | 676 | 54 | 97 |  |  |  |  |  |  |
| a150 | 7069 | 220 | 20 | 0.19 | 3639 | 0.09067 | 2.1 | 0.73511 | 4.4 | 0.05880 | 3.9 | 0.48 | 560 | 11 | 560 | 19 | 560 | 84 | 100 |  |  |  |  |  |  |
| a151 | 13134 | 370 | 45 | 0.51 | 21467 | 0.10829 | 2.1 | 0.92297 | 2.7 | 0.06182 | 1.7 | 0.77 | 663 | 13 | 664 | 13 | 668 | 37 | 99 |  |  |  |  |  |  |
| a152 | 100542 | 331 | 148 | 0.18 | 10336 | 0.42697 | 1.9 | 8.55225 | 2.3 | 0.14527 | 1.2 | 0.85 | 2292 | 37 | 2291 | 21 | 2291 | 21 | 100 |  |  |  |  |  |  |
| a153 | 18857 | 513 | 56 | 0.41 | 844 | 0.09952 | 1.8 | 0.83680 | 4.8 | 0.06098 | 4.4 | 0.38 | 612 | 11 | 617 | 22 | 639 | 95 | 96 |  |  |  |  |  |  |
| a154 | 16193 | 73 | 52 | 2.09 | 582 | 0.44008 | 2.0 | 8.87863 | 4.6 | 0.14632 | 4.2 | 0.42 | 2351 | 39 | 2326 | 43 | 2303 | 72 | 102 |  |  |  |  |  |  |
| a155 | 8189 | 200 | 21 | 0.29 | 11436 | 0.10041 | 2.0 | 0.85618 | 3.5 | 0.06185 | 2.8 | 0.59 | 617 | 12 | 628 | 16 | 669 | 60 | 92 |  |  |  |  |  |  |
| a156 | 4732 | 151 | 16 | 0.35 | 1591 | 0.10019 | 2.1 | 0.83806 | 3.4 | 0.06067 | 2.7 | 0.60 | 616 | 12 | 618 | 16 | 627 | 59 | 98 |  |  |  |  |  |  |
| a157 | 9254 | 342 | 31 | 0.19 | 3505 | 0.09148 | 1.9 | 0.74456 | 40.1 | 0.05903 | 40.0 | 0.05 | 564 | 10 | 565 | 190 | 568 | 871 | 99 |  |  |  |  |  |  |
| a158 | 51653 | 784 | 102 | 0.59 | 230 | 0.09760 | 2.0 | 0.82057 | 5.8 | 0.06098 | 5.5 | 0.34 | 600 | 11 | 608 | 27 | 638 | 118 | 94 |  |  |  |  |  |  |
| a159 | 21892 | 482 | 53 | 0.31 | 467 | 0.09739 | 2.1 | 0.81359 | 4.9 | 0.06059 | 4.4 | 0.43 | 599 | 12 | 604 | 23 | 625 | 95 | 96 |  |  |  |  |  |  |
| a160 | 29722 | 154 | 77 | 1.32 | 17395 | 0.34443 | 1.9 | 5.58432 | 2.3 | 0.11759 | 1.3 | 0.83 | 1908 | 31 | 1914 | 20 | 1920 | 23 | 99 |  |  |  |  |  |  |
| a161 | 18039 | 662 | 71 | 0.44 | 30117 | 0.09859 | 2.0 | 0.82181 | 2.4 | 0.06046 | 1.3 | 0.83 | 606 | 11 | 609 | 11 | 620 | 28 | 98 |  |  |  |  |  |  |
| a162 | 110046 | 1461 | 180 | 0.39 | 103 | 0.09436 | 2.3 | 0.77950 | 7.4 | 0.05991 | 7.1 | 0.30 | 581 | 13 | 585 | 34 | 600 | 154 | 97 |  |  |  |  |  |  |
| a163 | 50596 | 149 | 73 | 0.39 | 35097 | 0.42876 | 1.7 | 8.72298 | 4.1 | 0.14755 | 3.7 | 0.42 | 2300 | 33 | 2309 | 38 | 2318 | 64 | 99 |  |  |  |  |  |  |
| a164 | 7733 | 132 | 18 | 0.73 | 209 | 0.09971 | 2.9 | 2.13259 | 21.5 | 0.15511 | 21.3 | 0.13 | 613 | 17 | 1159 | 161 | 2403 | 362 | 25 |  |  |  |  |  |  |
| a166 | 27491 | 510 | 63 | 0.31 | 255 | 0.10710 | 2.2 | 0.90792 | 5.4 | 0.06148 | 5.0 | 0.41 | 656 | 14 | 656 | 27 | 656 | 106 | 100 |  |  |  |  |  |  |
| a167 | 8176 | 277 | 35 | 1.16 | 3316 | 0.09014 | 2.4 | 0.73364 | 5.1 | 0.05903 | 4.5 | 0.47 | 556 | 13 | 559 | 22 | 568 | 98 | 98 |  |  |  |  |  |  |
| a168 | 5888 | 250 | 26 | 0.19 | 2827 | 0.10309 | 2.2 | 0.87971 | 4.2 | 0.06189 | 3.5 | 0.52 | 632 | 13 | 641 | 20 | 670 | 76 | 94 |  |  |  |  |  |  |
| a169 | 48678 | 1300 | 158 | 0.38 | 301 | 0.10554 | 4.1 | 0.90558 | 5.3 | 0.06223 | 3.5 | 0.76 | 647 | 25 | 655 | 26 | 682 | 74 | 95 |  |  |  |  |  |  |
| a170 | 4794 | 41 | 7 | 0.53 | 73 | 0.09868 | 3.2 | 3.31843 | 6.3 | 0.24389 | 5.4 | 0.52 | 607 | 19 | 1485 | 50 | 3146 | 86 | 19 |  |  |  |  |  |  |
| a171 | 6577 | 250 | 24 | 0.13 | 3547 | 0.09783 | 2.1 | 0.81902 | 7.7 | 0.06072 | 7.4 | 0.27 | 602 | 12 | 608 | 36 | 629 | 159 | 96 |  |  |  |  |  |  |
| a172 | 14423 | 533 | 65 | 0.69 | 15353 | 0.10304 | 2.1 | 0.88766 | 3.0 | 0.06248 | 2.1 | 0.72 | 632 | 13 | 645 | 14 | 691 | 44 | 92 |  |  |  |  |  |  |
| a173 | 4893 | 216 | 23 | 0.51 | 2613 | 0.09352 | 1.9 | 0.77181 | 3.8 | 0.05986 | 3.2 | 0.51 | 576 | 11 | 581 | 17 | 598 | 70 | 96 |  |  |  |  |  |  |
| a174 | 6422 | 250 | 26 | 0.41 | 3508 | 0.09567 | 2.0 | 0.78944 | 3.9 | 0.05984 | 3.3 | 0.52 | 589 | 11 | 591 | 18 | 598 | 72 | 99 |  |  |  |  |  |  |
| a175 | 22518 | 141 | 50 | 0.34 | 19401 | 0.32202 | 2.3 | 5.15647 | 3.5 | 0.11614 | 2.6 | 0.65 | 1800 | 35 | 1845 | 30 | 1898 | 47 | 95 |  |  |  |  |  |  |
| a176 | 12485 | 526 | 50 | 0.24 | 12533 | 0.09131 | 1.8 | 0.74344 | 3.0 | 0.05905 | 2.5 | 0.58 | 563 | 10 | 564 | 13 | 569 | 54 | 99 |  |  |  |  |  |  |
| a177 | 36163 | 179 | 77 | 0.37 | 2174 | 0.38441 | 1.6 | 6.99328 | 2.2 | 0.13194 | 1.5 | 0.75 | 2097 | 29 | 2111 | 20 | 2124 | 26 | 99 |  |  |  |  |  |  |
| a178 | 5810 | 130 | 21 | 0.28 | 2987 | 0.15193 | 1.8 | 1.50393 | 6.0 | 0.07179 | 5.7 | 0.31 | 912 | 16 | 932 | 37 | 980 | 116 | 93 |  |  |  |  |  |  |
| a179 | 156642 | 373 | 219 | 0.38 | 82858 | 0.49975 | 1.8 | 13.16994 | 2.1 | 0.19113 | 1.0 | 0.88 | 2613 | 39 | 2692 | 20 | 2752 | 16 | 95 |  |  |  |  |  |  |
| a180 | 5950 | 167 | 20 | 0.71 | 486 | 0.09670 | 2.1 | 0.81764 | 12.4 | 0.06132 | 12.2 | 0.17 | 595 | 12 | 607 | 58 | 651 | 261 | 91 |  |  |  |  |  |  |
| a181 | 7131 | 41 | 17 | 0.40 | 3361 | 0.37108 | 2.8 | 6.42053 | 4.2 | 0.12549 | 3.2 | 0.65 | 2034 | 48 | 2035 | 38 | 2036 | 57 | 100 |  |  |  |  |  |  |
| a182 | 19392 | 907 | 99 | 0.91 | 1357 | 0.09070 | 2.0 | 0.73657 | 4.7 | 0.05890 | 4.2 | 0.42 | 560 | 11 | 560 | 20 | 563 | 92 | 99 |  |  |  |  |  |  |
| a183 | 5252 | 180 | 18 | 0.21 | 1557 | 0.09892 | 2.1 | 0.82954 | 6.8 | 0.06082 | 6.5 | 0.31 | 608 | 12 | 613 | 32 | 633 | 140 | 96 |  |  |  |  |  |  |
| a184 | 20376 | 810 | 81 | 0.42 | 810 | 0.09097 | 3.4 | 0.74057 | 3.6 | 0.05905 | 1.1 | 0.95 | 561 | 18 | 563 | 16 | 569 | 24 | 99 |  |  |  |  |  |  |
| a185 | 8058 | 372 | 41 | 0.70 | 2360 | 0.09249 | 1.9 | 0.76153 | 3.3 | 0.05971 | 2.7 | 0.57 | 570 | 10 | 575 | 14 | 593 | 58 | 96 |  |  |  |  |  |  |
| a186 | 1425 | 64 | 8 | 0.95 | 2367 | 0.10062 | 2.9 | 0.84301 | 7.0 | 0.06077 | 6.4 | 0.41 | 618 | 17 | 621 | 33 | 631 | 138 | 98 |  |  |  |  |  |  |
| a187 | 4505 | 145 | 27 | 0.41 | 5954 | 0.17341 | 2.0 | 1.83081 | 4.4 | 0.07657 | 4.0 | 0.44 | 1031 | 19 | 1057 | 30 | 1110 | 79 | 93 |  |  |  |  |  |  |
| a188 | 11635 | 507 | 56 | 0.42 | 19240 | 0.10071 | 2.1 | 0.84887 | 3.4 | 0.06113 | 2.7 | 0.61 | 619 | 12 | 624 | 16 | 644 | 59 | 96 |  |  |  |  |  |  |
| a189 | 3862 | 209 | 20 | 0.40 | 6641 | 0.09052 | 2.0 | 0.73597 | 4.6 | 0.05896 | 4.1 | 0.44 | 559 | 11 | 560 | 20 | 566 | 89 | 99 |  |  |  |  |  |  |
| a190 | 8842 | 386 | 47 | 0.62 | 14335 | 0.10487 | 2.0 | 0.90108 | 3.3 | 0.06232 | 2.6 | 0.61 | 643 | 12 | 652 | 16 | 685 | 56 | 94 |  |  |  |  |  |  |
| a191 | 3060 | 132 | 22 | 0.29 | 4257 | 0.16260 | 2.9 | 1.62987 | 6.0 | 0.07270 | 5.2 | 0.49 | 971 | 27 | 982 | 38 | 1006 | 106 | 97 |  |  |  |  |  |  |
| a192 | 18508 | 749 | 79 | 0.19 | 1280 | 0.10357 | 2.0 | 0.86813 | 4.6 | 0.06079 | 4.2 | 0.43 | 635 | 12 | 635 | 22 | 632 | 90 | 101 |  |  |  |  |  |  |
| a193 | 26049 | 657 | 119 | 0.47 | 14966 | 0.16443 | 1.8 | 1.63846 | 2.8 | 0.07227 | 2.1 | 0.66 | 981 | 17 | 985 | 18 | 994 | 42 | 99 |  |  |  |  |  |  |
| a194 | 41617 | 308 | 136 | 0.87 | 8350 | 0.34432 | 1.8 | 5.58301 | 2.4 | 0.11760 | 1.6 | 0.76 | 1907 | 30 | 1913 | 21 | 1920 | 28 | 99 |  |  |  |  |  |  |
| a196 | 12532 | 627 | 70 | 0.46 | 14974 | 0.10222 | 1.8 | 0.87567 | 3.2 | 0.06213 | 2.7 | 0.55 | 627 | 11 | 639 | 15 | 679 | 57 | 92 |  |  |  |  |  |  |
| a197 | 53898 | 2019 | 199 | 0.18 | 264 | 0.09133 | 8.6 | 0.80765 | 15.9 | 0.06414 | 13.4 | 0.54 | 563 | 47 | 601 | 75 | 746 | 283 | 76 |  |  |  |  |  |  |
| a198 | 6745 | 333 | 40 | 0.88 | 2898 | 0.09249 | 2.2 | 0.75244 | 8.5 | 0.05900 | 8.3 | 0.26 | 570 | 12 | 570 | 38 | 567 | 180 | 101 |  |  |  |  |  |  |
| a199 | 3481 | 49 | 8 | 0.60 | 79 | 0.10775 | 2.4 | 3.35924 | 5.5 | 0.22611 | 5.0 | 0.43 | 660 | 15 | 1495 | 44 | 3025 | 80 | 22 |  |  |  |  |  |  |
| a200 | 12418 | 711 | 71 | 0.20 | 20783 | 0.10003 | 2.3 | 0.83274 | 3.1 | 0.06038 | 2.1 | 0.74 | 615 | 14 | 615 | 14 | 617 | 45 | 100 |  |  |  |  |  |  |
| a201 | 47797 | 382 | 199 | 1.24 | 38737 | 0.37123 | 1.6 | 6.37220 | 2.0 | 0.12449 | 1.3 | 0.78 | 2035 | 27 | 2028 | 18 | 2022 | 22 | 101 |  |  |  |  |  |  |
| a202 | 5739 | 392 | 36 | 0.22 | 3627 | 0.09050 | 2.0 | 0.73649 | 3.2 | 0.05902 | 2.6 | 0.61 | 558 | 11 | 560 | 14 | 568 | 56 | 98 |  |  |  |  |  |  |
| a203 | 41865 | 1176 | 177 | 0.09 | 27926 | 0.15626 | 2.0 | 1.52874 | 2.4 | 0.07095 | 1.2 | 0.87 | 936 | 18 | 942 | 15 | 956 | 24 | 98 |  |  |  |  |  |  |
| a204 | 71313 | 424 | 204 | 0.45 | 44232 | 0.41163 | 2.3 | 7.82897 | 2.8 | 0.13794 | 1.5 | 0.84 | 2222 | 44 | 2212 | 25 | 2202 | 26 | 101 |  |  |  |  |  |  |
| a205 | 18572 | 901 | 84 | 0.15 | 707 | 0.09093 | 2.1 | 0.74311 | 4.6 | 0.05927 | 4.1 | 0.45 | 561 | 11 | 564 | 20 | 577 | 89 | 97 |  |  |  |  |  |  |
| a206 | 91460 | 273 | 157 | 0.65 | 53813 | 0.46142 | 1.7 | 10.96478 | 3.8 | 0.17235 | 3.4 | 0.46 | 2446 | 36 | 2520 | 36 | 2581 | 56 | 95 |  |  |  |  |  |  |
| a207 | 148443 | 846 | 384 | 0.05 | 67154 | 0.44666 | 1.8 | 9.14740 | 4.4 | 0.14853 | 4.1 | 0.39 | 2380 | 35 | 2353 | 42 | 2329 | 70 | 102 |  |  |  |  |  |  |
| a208 | 8105 | 467 | 45 | 0.29 | 1502 | 0.09050 | 1.9 | 0.73469 | 9.0 | 0.05888 | 8.7 | 0.21 | 558 | 10 | 559 | 39 | 563 | 191 | 99 |  |  |  |  |  |  |
| a209 | 90070 | 1500 | 228 | 0.40 | 97 | 0.11143 | 2.0 | 0.94800 | 4.1 | 0.06171 | 3.5 | 0.49 | 681 | 13 | 677 | 20 | 664 | 76 | 103 |  |  |  |  |  |  |
| a210 | 6139 | 340 | 42 | 0.63 | 7296 | 0.10531 | 2.3 | 0.90453 | 8.4 | 0.06229 | 8.1 | 0.27 | 645 | 14 | 654 | 41 | 684 | 173 | 94 |  |  |  |  |  |  |
| a211 | 11929 | 803 | 81 | 0.40 | 10521 | 0.09383 | 1.8 | 0.77027 | 2.9 | 0.05954 | 2.2 | 0.63 | 578 | 10 | 580 | 13 | 587 | 49 | 99 |  |  |  |  |  |  |
| a212 | 13532 | 558 | 67 | 0.67 | 459 | 0.09529 | 2.1 | 0.78798 | 5.9 | 0.05997 | 5.5 | 0.35 | 587 | 12 | 590 | 27 | 603 | 119 | 97 |  |  |  |  |  |  |
| a213 | 3451 | 222 | 28 | 0.86 | 5678 | 0.09957 | 2.5 | 0.84345 | 4.6 | 0.06144 | 3.9 | 0.53 | 612 | 14 | 621 | 22 | 655 | 84 | 93 |  |  |  |  |  |  |
| a214 | 11011 | 780 | 77 | 0.22 | 15578 | 0.09781 | 1.8 | 0.80738 | 2.8 | 0.05987 | 2.1 | 0.66 | 602 | 11 | 601 | 13 | 599 | 45 | 100 |  |  |  |  |  |  |
| a215 | 27044 | 986 | 102 | 0.49 | 270 | 0.07821 | 2.5 | 1.24635 | 5.5 | 0.11557 | 4.9 | 0.46 | 485 | 12 | 822 | 31 | 1889 | 87 | 26 |  |  |  |  |  |  |
| a216 | 8366 | 547 | 63 | 0.71 | 2693 | 0.09585 | 2.0 | 0.80862 | 7.8 | 0.06119 | 7.5 | 0.26 | 590 | 11 | 602 | 36 | 646 | 161 | 91 |  |  |  |  |  |  |
| a217 | 24357 | 1016 | 130 | 0.32 | 2751 | 0.11728 | 2.7 | 1.02199 | 6.1 | 0.06320 | 5.4 | 0.45 | 715 | 18 | 715 | 32 | 715 | 116 | 100 |  |  |  |  |  |  |
| a218 | 12678 | 1054 | 93 | 0.11 | 9557 | 0.09126 | 2.1 | 0.74161 | 2.8 | 0.05894 | 1.8 | 0.77 | 563 | 12 | 563 | 12 | 565 | 39 | 100 |  |  |  |  |  |  |
| a219 | 12058 | 659 | 69 | 0.42 | 1154 | 0.09285 | 2.2 | 0.76646 | 5.0 | 0.05987 | 4.5 | 0.43 | 572 | 12 | 578 | 22 | 599 | 98 | 96 |  |  |  |  |  |  |
| a220 | 15357 | 986 | 94 | 0.29 | 914 | 0.08669 | 1.9 | 0.91770 | 4.2 | 0.07678 | 3.7 | 0.45 | 536 | 10 | 661 | 21 | 1115 | 75 | 48 |  |  |  |  |  |  |
| a221 | 4991 | 321 | 38 | 0.49 | 1225 | 0.10546 | 2.3 | 0.90246 | 8.0 | 0.06207 | 7.6 | 0.29 | 646 | 14 | 653 | 39 | 676 | 163 | 96 |  |  |  |  |  |  |
| a222 | 6306 | 267 | 31 | 0.70 | 315 | 0.08748 | 2.6 | 1.51693 | 12.1 | 0.12577 | 11.8 | 0.21 | 541 | 13 | 937 | 77 | 2040 | 208 | 27 |  |  |  |  |  |  |
| a223 | 10598 | 871 | 90 | 0.52 | 5304 | 0.09367 | 1.9 | 0.77319 | 5.0 | 0.05987 | 4.6 | 0.39 | 577 | 11 | 582 | 22 | 599 | 99 | 96 |  |  |  |  |  |  |
| a224 | 6208 | 581 | 67 | 0.35 | 3300 | 0.10875 | 2.3 | 0.94574 | 3.6 | 0.06307 | 2.7 | 0.64 | 665 | 14 | 676 | 18 | 711 | 58 | 94 |  |  |  |  |  |  |
| a225 | 10063 | 819 | 77 | 0.00 | 7809 | 0.10207 | 2.5 | 0.85971 | 4.5 | 0.06109 | 3.7 | 0.55 | 627 | 15 | 630 | 21 | 642 | 80 | 98 |  |  |  |  |  |  |
| a226 | 105465 | 936 | 392 | 0.33 | 2640 | 0.38806 | 2.0 | 7.36522 | 2.4 | 0.13765 | 1.3 | 0.83 | 2114 | 36 | 2157 | 22 | 2198 | 23 | 96 |  |  |  |  |  |  |
| a227 | 20045 | 1083 | 126 | 0.34 | 229 | 0.10098 | 2.2 | 0.86568 | 8.4 | 0.06218 | 8.1 | 0.27 | 620 | 13 | 633 | 40 | 680 | 172 | 91 |  |  |  |  |  |  |
| a228 | 13032 | 633 | 68 | 0.41 | 443 | 0.09097 | 2.7 | 0.74334 | 8.8 | 0.05926 | 8.3 | 0.31 | 561 | 14 | 564 | 39 | 577 | 181 | 97 |  |  |  |  |  |  |
| a229 | 1933 | 21 | 7 | 1.55 | 89 | 0.14525 | 4.0 | 7.26450 | 7.0 | 0.36275 | 5.8 | 0.57 | 874 | 33 | 2144 | 65 | 3761 | 88 | 23 |  |  |  |  |  |  |
| a230 | 18667 | 1794 | 165 | 0.03 | 31079 | 0.09909 | 1.6 | 0.82820 | 2.3 | 0.06062 | 1.7 | 0.69 | 609 | 9 | 613 | 11 | 626 | 36 | 97 |  |  |  |  |  |  |
| a231 | 56340 | 2840 | 380 | 0.40 | 280 | 0.11204 | 6.1 | 0.97804 | 9.4 | 0.06331 | 7.1 | 0.65 | 685 | 40 | 693 | 48 | 719 | 151 | 95 |  |  |  |  |  |  |
| a232 | 15360 | 950 | 96 | 0.27 | 5590 | 0.09960 | 1.8 | 0.83466 | 4.6 | 0.06078 | 4.2 | 0.40 | 612 | 11 | 616 | 21 | 631 | 90 | 97 |  |  |  |  |  |  |
| a233 | 13592 | 1015 | 103 | 0.28 | 658 | 0.09349 | 1.9 | 0.76142 | 3.6 | 0.05907 | 3.1 | 0.52 | 576 | 10 | 575 | 16 | 570 | 67 | 101 |  |  |  |  |  |  |
| a234 | 83253 | 634 | 291 | 0.19 | 51176 | 0.42710 | 3.7 | 9.43815 | 7.9 | 0.16027 | 7.0 | 0.47 | 2293 | 72 | 2382 | 76 | 2459 | 119 | 93 |  |  |  |  |  |  |
| a235 | 6614 | 706 | 68 | 0.32 | 6800 | 0.09218 | 2.3 | 0.75217 | 3.4 | 0.05918 | 2.5 | 0.68 | 568 | 13 | 569 | 15 | 574 | 54 | 99 |  |  |  |  |  |  |
| a236 | 9095 | 966 | 92 | 0.08 | 6802 | 0.09997 | 1.7 | 0.85381 | 4.4 | 0.06194 | 4.0 | 0.39 | 614 | 10 | 627 | 21 | 672 | 86 | 91 |  |  |  |  |  |  |
| a237 | 14494 | 1572 | 151 | 0.17 | 2030 | 0.09504 | 1.7 | 0.79368 | 3.3 | 0.06057 | 2.8 | 0.53 | 585 | 10 | 593 | 15 | 624 | 61 | 94 |  |  |  |  |  |  |
| a238 | 6211 | 653 | 55 | 0.17 | 3425 | 0.08334 | 2.1 | 0.78018 | 4.1 | 0.06790 | 3.5 | 0.52 | 516 | 11 | 586 | 19 | 865 | 73 | 60 |  |  |  |  |  |  |
| a239 | 42468 | 1680 | 206 | 0.25 | 220 | 0.10335 | 2.5 | 1.00358 | 4.5 | 0.07043 | 3.7 | 0.55 | 634 | 15 | 706 | 23 | 941 | 77 | 67 |  |  |  |  |  |  |
| a240 | 8723 | 1179 | 118 | 0.25 | 3725 | 0.09700 | 2.0 | 0.81418 | 5.3 | 0.06088 | 4.9 | 0.37 | 597 | 11 | 605 | 24 | 635 | 105 | 94 |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| a within-run background-corrected mean 207Pb signal in counts per second | | | | | | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| b U and Pb content and Th/U ratio were calculated relative to GJ-1 and are accurate to approximately 10%. | | | | | | | | | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| c corrected for background, mass bias, laser induced U-Pb fractionation and common Pb (if detectable, see analytical method) using Stacey & Kramers (1975) model Pb composition. | | | | | | | | | | | | | | | | | | | |  |  |  |  |  |  |
| 207Pb/235U calculated using 207Pb/206Pb/(238U/206Pb × 1/137.88). Errors are propagated by quadratic addition of within-run errors (2SE) and the reproducibility of GJ-1 (2SD). | | | | | | | | | | | | | | | | | | | |  |  |  |  |  |  |
| d Rho is the error correlation defined as err206Pb/238U/err207Pb/235U. | | | | | | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |