

| Dates (Ma) | | | | | | | | | | Composition | | | | | | | | | | Isotopic Ratios | | | | | | | | | | Correlation Coefficients | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------|-----------------------------|------------|-----------------------------|------------|-----------------------------|------------|------------------------------|------------|----------------|---------------------|------------------------------|------------|------------------------------|------------|-----------------------------|------------|------------------------------|------------|--------------|-----------------|-------------|------------|-------------------|--------------|-----------------------------|-------------|-------------------|-------------------------|--------------------------|--------------------------|----------------------------------|----------------------|---------------------|--------------------------|------------------------------|------------------------------|-----------------------------|------------------|----------------------------|------------------|------------------------------|------------------|-------------------------------|-------------------|------------------------------|-------------------|------------------------------|-------------------|-------------------------------|-------------------|-------------------------------|-------------------|----------------|--|--|--|--|---|---|---|---|---|----------|
| Fraction | 206Pb/ 238U ^a | ±2σ abs | 206Pb/ 238U ^b | ±2σ abs | 207Pb/ 235U ^c | ±2σ abs | 207Pb/ 206Pb ^d | ±2σ abs | Corr. coef. | % disc ^e | 208Pb/ 232Th ^f | ±2σ abs | 207Pb/ 206Pb ^g | ±2σ abs | 207Pb/ 235U ^h | ±2σ abs | 207Pb/ 206Pb ⁱ | ±2σ abs | best date | ±2σ abs | Mass (g) | Muss Tj | Tj/g ^j | F2 14 | conc U(ppm) ^k | Th (ppm) | Tj/U ^l | Pb ^m (pg) | Pbc ⁿ (pg) | total mass Pb(pg) | conc Pb ^p (ppm) | conc Pbc (ppm) | conc Pb (ppm) | Pb/P ^q Pbc | 204Pb/ 206Pb ^r | 206Pb/ 208Pb ^s | 206Pb/ 238U ^t | ±2σ ^v | 235U/ 238U ^w | ±2σ ^x | 206Pb/ 207Pb ^y | ±2σ ^z | 208Pb/ 232Th ^{aa} | ±2σ ^{ab} | 206Pb/ 238U ^{ac} | ±2σ ^{ad} | 206Pb/ 235U ^{ae} | ±2σ ^{af} | 207Pb/ 206Pb ^{ag} | ±2σ ^{ah} | 207Pb/ 206Pb ^{ai} | ±2σ ^{aj} | Corr. coef. | 206Pb/238U 207Pb/235U ^{ak} | 206Pb/238U 207Pb/235U ^{al} | 206Pb/238U 207Pb/235U ^{am} | 206Pb/238U 207Pb/235U ^{an} | 207Pb/206Pb 238U/206Pb ^{ao} | 207Pb/206Pb 238U/206Pb ^{ap} | 207Pb/206Pb 238U/206Pb ^{aq} | 207Pb/206Pb 238U/206Pb ^{ar} | 207Pb/206Pb 238U/206Pb ^{as} | Fraction |
| R56-99::R56-99 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| z1 | 180.2 | 1.2 | 180.3 | 1.2 | 185 | 14 | 240 | 180 | 0.700 | 24.87 | 0 | 0 | 239 | 180 | 185 | 14 | 240 | 180 | 239 | 180 | 0 | 0 | 0.00010 | 0.000183475 | 1.83475 | 0 | 0.83 | 5.89 | 4.37 | 10.2560 | 0.0588742 | 0 | 0.102560 | 1 | 93 | 0.264 | 0.02835 | 0.68 | 0.199 | 8.3 | 0.0510 | 7.8 | 0 | 0 | 0.028363 | 0.68 | 0.199266 | 8.3 | 0.050955 | 7.8 | 0.050978 | 7.8 | 0.050953 | 7.8 | 0.700 | 0.70 | 0.70 | 0.70 | -0.65 | -0.65 | -0.65 | -0.65 | z1 |
| z3 | 180.88 | 0.37 | 180.96 | 0.37 | 182.0 | 4.5 | 197 | 59 | 0.712 | 8.30 | 0 | 0 | 196 | 59 | 182.0 | 4.5 | 197 | 59 | 196 | 59 | 0 | 0 | 0.00010 | 0.000144474 | 1.44474 | 0 | 1.03 | 4.88 | 0.84 | 5.71570 | 0.0487701 | 0 | 0.0571570 | 6 | 325 | 0.327 | 0.028456 | 0.21 | 0.1964 | 2.7 | 0.0500 | 2.5 | 0 | 0 | 0.028468 | 0.21 | 0.196361 | 2.7 | 0.050027 | 2.5 | 0.050047 | 2.5 | 0.050025 | 2.5 | 0.712 | 0.71 | 0.71 | 0.71 | -0.67 | -0.67 | -0.67 | -0.67 | z3 |
| z4 | 180.08 | 0.51 | 180.16 | 0.51 | 182.4 | 4.5 | 213 | 58 | 0.687 | 15.50 | 0 | 0 | 212 | 58 | 182.4 | 4.5 | 213 | 58 | 212 | 58 | 0 | 0 | 0.00010 | 0.000174678 | 1.74678 | 0 | 0.75 | 5.49 | 1.14 | 6.63661 | 0.0549479 | 0 | 0.0663661 | 5 | 289 | 0.240 | 0.028328 | 0.28 | 0.1968 | 2.7 | 0.0504 | 2.5 | 0 | 0 | 0.028342 | 0.28 | 0.196821 | 2.7 | 0.050367 | 2.5 | 0.050366 | 2.5 | 0.687 | 0.69 | 0.69 | 0.69 | -0.62 | -0.62 | -0.62 | -0.62 | z4 | | |
| z13 | 186.9 | 1.4 | 187.0 | 1.4 | 190 | 17 | 227 | 210 | 0.806 | 17.66 | 0 | 0 | 226 | 210 | 190 | 17 | 227 | 210 | 226 | 210 | 0 | 0 | 0.00010 | 0.0000282345 | 0.282345 | 0 | 0.90 | 0.956 | 0.80 | 0.050678 | 0.00956251 | 0 | 0.0175403 | 1 | 83 | 0.286 | 0.02942 | 0.74 | 0.206 | 9.8 | 0.0507 | 9.2 | 0 | 0 | 0.029429 | 0.74 | 0.205629 | 9.8 | 0.050697 | 9.2 | 0.050677 | 9.2 | 0.806 | 0.81 | 0.81 | 0.81 | -0.78 | -0.78 | -0.78 | -0.78 | z13 | | |
| z16 | 181.2 | 1.0 | 181.2 | 1.0 | 186 | 13 | 251 | 170 | 0.783 | 27.86 | 0 | 0 | 250 | 170 | 186 | 13 | 251 | 170 | 250 | 170 | 0 | 0 | 0.00010 | 0.0000742773 | 0.742773 | 0 | 0.71 | 2.32 | 1.60 | 3.92021 | 0.0232382 | 0 | 0.0392021 | 1 | 101 | 0.224 | 0.02850 | 0.56 | 0.201 | 7.6 | 0.0512 | 7.2 | 0 | 0 | 0.028514 | 0.56 | 0.201303 | 7.6 | 0.051203 | 7.2 | 0.051227 | 7.2 | 0.051202 | 7.2 | 0.783 | 0.78 | 0.78 | 0.78 | -0.75 | -0.75 | -0.75 | -0.75 | z16 |
| z19 | 180.65 | 0.71 | 180.74 | 0.71 | 184.4 | 9.3 | 231 | 120 | 0.773 | 22.32 | 0 | 0 | 231 | 120 | 184.4 | 9.3 | 232 | 120 | 231 | 120 | 0 | 0 | 0.00010 | 0.000109013 | 1.09013 | 0 | 0.52 | 2.32 | 1.64 | 4.88366 | 0.0232428 | 0 | 0.0488366 | 2 | 136 | 0.165 | 0.02842 | 0.40 | 0.199 | 5.5 | 0.0508 | 5.2 | 0 | 0 | 0.028434 | 0.40 | 0.199122 | 5.5 | 0.050791 | 5.2 | 0.050790 | 5.2 | 0.773 | 0.77 | 0.77 | 0.77 | -0.74 | -0.74 | -0.74 | -0.74 | z19 | | |
| z20 | 180.74 | 0.57 | 180.83 | 0.57 | 182.6 | 7.5 | 206 | 99 | 0.782 | 12.36 | 0 | 0 | 205 | 99 | 182.6 | 7.5 | 206 | 99 | 205 | 99 | 0 | 0 | 0.00010 | 0.0000682598 | 0.682598 | 0 | 0.63 | 2.09 | 0.85 | 2.93693 | 0.0208739 | 0 | 0.0293693 | 2 | 161 | 0.199 | 0.028435 | 0.32 | 0.1970 | 4.5 | 0.0502 | 4.2 | 0 | 0 | 0.028449 | 0.32 | 0.196975 | 4.5 | 0.050217 | 4.2 | 0.050241 | 4.2 | 0.050216 | 4.3 | 0.782 | 0.78 | 0.78 | 0.78 | -0.75 | -0.75 | -0.75 | -0.75 | z20 |
| R56-28::R56-28 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| z4 | 182.74 | 0.66 | 182.83 | 0.66 | 183.2 | 5.5 | 189 | 72 | 0.549 | 3.35 | 0 | 0 | 188 | 72 | 183.2 | 5.5 | 189 | 72 | 188 | 72 | 0 | 0 | 0.00010 | 0.000194848 | 1.94848 | 0 | 0.58 | 5.95 | 1.63 | 7.57754 | 0.0595167 | 0 | 0.0757754 | 4 | 234 | 0.185 | 0.02875 | 0.37 | 0.1977 | 3.3 | 0.0499 | 3.1 | 0 | 0 | 0.028768 | 0.37 | 0.197718 | 3.3 | 0.049848 | 3.1 | 0.049872 | 3.1 | 0.049847 | 3.1 | 0.549 | 0.55 | 0.55 | 0.55 | -0.46 | -0.46 | -0.46 | -0.46 | z4 |
| z6 | 182.19 | 0.93 | 182.28 | 0.93 | 188 | 12 | 267 | 150 | 0.782 | 31.68 | 0 | 0 | 266 | 150 | 188 | 12 | 267 | 150 | 266 | 150 | 0 | 0 | 0.00010 | 0.000220457 | 2.20457 | 0 | 0.74 | 7.00 | 4.72 | 11.8110 | 0.0699594 | 0 | 0.118110 | 1 | 100 | 0.234 | 0.02867 | 0.52 | 0.204 | 7.1 | 0.0516 | 6.8 | 0 | 0 | 0.028680 | 0.52 | 0.203852 | 7.1 | 0.051552 | 6.8 | 0.051576 | 6.8 | 0.582 | 0.78 | 0.78 | 0.78 | -0.75 | -0.75 | -0.75 | -0.75 | z6 | | |
| z7 | 181.89 | 0.62 | 181.97 | 0.62 | 183.4 | 6.4 | 203 | 84 | 0.650 | 10.30 | 0 | 0 | 202 | 84 | 183.4 | 6.4 | 203 | 84 | 202 | 84 | 0 | 0 | 0.00010 | 0.000162240 | 1.62240 | 0 | 0.80 | 5.21 | 1.86 | 6.97318 | 0.0520821 | 0 | 0.0697318 | 3 | 183 | 0.253 | 0.028617 | 0.34 | 0.1979 | 3.8 | 0.0502 | 3.6 | 0 | 0 | 0.028631 | 0.34 | 0.197944 | 3.8 | 0.050144 | 3.6 | 0.050167 | 3.6 | 0.580 | 0.65 | 0.65 | 0.65 | -0.59 | -0.59 | -0.59 | -0.59 | z7 | | |
| z8 | 182.01 | 0.29 | 182.10 | 0.29 | 179.4 | 3.6 | 145 | 50 | 0.571 | -25.94 | 0 | 0 | 143 | 50 | 179.4 | 3.6 | 144 | 50 | 143 | 50 | 0 | 0 | 0.00010 | 0.000179366 | 1.79366 | 0 | 0.70 | 5.62 | 1.00 | 6.62230 | 0.0561921 | 0 | 0.0662230 | 6 | 339 | 0.222 | 0.028637 | 0.16 | 0.1932 | 2.2 | 0.0489 | 2.1 | 0 | 0 | 0.028651 | 0.16 | 0.193195 | 2.2 | 0.048907 | 2.1 | 0.048906 | 2.1 | 0.571 | 0.57 | 0.57 | 0.57 | -0.52 | -0.52 | -0.52 | -0.52 | z8 | | |
| z9 | 182.28 | 0.28 | 182.32 | 0.28 | 184.0 | 3.4 | 206 | 45 | 0.732 | 11.72 | 0 | 0 | 205 | 45 | 184.0 | 3.4 | 206 | 45 | 205 | 45 | 0 | 0 | 0.00010 | 0.000322312 | 3.22312 | 0 | 0.58 | 9.82 | 1.90 | 11.7136 | 0.0981620 | 0 | 0.117136 | 5 | 323 | 0.184 | 0.028679 | 0.16 | 0.1987 | 2.0 | 0.05025 | 1.9 | 0 | 0 | 0.028694 | 0.16 | 0.198692 | 2.0 | 0.050223 | 1.9 | 0.050241 | 1.9 | 0.572 | 0.73 | 0.73 | 0.73 | -0.69 | -0.69 | -0.69 | -0.69 | z9 | | |
| z10 | 182.04 | 0.14 | 182.13 | 0.14 | 182.7 | 1.5 | 192 | 19 | 0.702 | 4.94 | 0 | 0 | 190 | 19 | 182.7 | 1.5 | 191 | 19 | 190 | 19 | 0 | 0 | 0.00010 | 0.000200832 | 20.0832 | 0 | 0.43 | 58.6 | 5.17 | 63.8126 | 0.586391 | 0 | 0.638126 | 11 | 714 | 0.135 | 0.028641 | 0.076 | 0.1972 | 0.88 | 0.04993 | 0.83 | 0 | 0 | 0.028656 | 0.076 | 0.197153 | 0.88 | 0.049899 | 0.83 | 0.049924 | 0.83 | 0.049897 | 0.83 | 0.702 | 0.70 | 0.70 | 0.70 | -0.65 | -0.65 | -0.65 | -0.65 | z10 |
| z11 | 184.94 | 0.67 | 185.02 | 0.67 | 184.1 | 8.3 | 174 | 110 | 0.771 | -6.48 | 0 | 0 | 173 | 110 | 184.1 | 8.3 | 174 | 110 | 173 | 110 | 0 | 0 | 0.00010 | 0.000557663 | 5.57663 | 0 | 0.69 | 1.83 | 0.97 | 0.085436 | 0.0262173 | 2 | 152 | 0.218 | 0.02910 | 0.37 | 0.1988 | 5.0 | 0.0495 | 4.7 | 0 | 0 | 0.029118 | 0.37 | 0.198808 | 5.0 | 0.049543 | 4.7 | 0.049520 | 4.7 | 0.771 | 0.77 | 0.77 | 0.77 | -0.74 | -0.74 | -0.74 | -0.74 | z11 | | | | |
| z12 | 182.33 | 0.34 | 182.43 | 0.34 | 182.59 | 0.91 | 186 | 11 | 0.511 | 1.98 | 0 | 0 | 185 | 11 | 182.59 | 0.91 | 186 | 11 | 185 | 11 | 0 | 0 | 0.00010 | 0.00147826 | 14.7826 | 0 | 0.34 | 42.2 | 1.99 | 44.2191 | 0.422244 | 0 | 0.442191 | 21 | 1348 | 0.108 | 0.028688 | 0.19 | 0.1970 | 0.54 | 0.04981 | 0.48 | 0 | 0 | 0.028703 | 0.19 | 0.197006 | 0.54 | 0.049780 | 0.48 | 0.049806 | 0.48 | 0.049779 | 0.48 | 0.511 | 0.51 | 0.51 | 0.51 | -0.19 | -0.19 | -0.19 | -0.19 | z12 |
| z13 | 182.00 | 0.12 | 182.09 | 0.12 | 182.7 | 1.2 | 192 | 15 | 0.651 | 5.14 | 0 | 0 | 191 | 15 | 182.7 | 1.2 | 192 | 15 | 191 | 15 | 0 | 0 | 0.00010 | 0.000906389 | 9.06389 | 0 | 0.45 | 26.7 | 1.83 | 28.4846 | 0.266579 | 0 | 0.284846 | 15 | 907 | 0.144 | 0.028634 | 0.067 | 0.1971 | 0.70 | 0.04993 | 0.65 | 0 | 0 | 0.028649 | 0.067 | 0.197134 | 0.70 | 0.049906 | 0.65 | 0.049931 | 0.65 | 0.049905 | 0.65 | 0.651 | 0.65 | 0.65 | 0.65 | -0.59 | -0.59 | -0.59 | -0.59 | z13 |
| R56-22::R56-22 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| z1b | 182.41 | 0.34 | 182.50 | 0.34 | 183.4 | 2.8 | 196 | 36 | 0.539 | 6.84 | 0 | 0 | 195 | 36 | 183.4 | 2.8 | 196 | 36 | 195 | 36 | 0 | 0 | 0.00010 | 0.000317953 | 3.17953 | 0 | 0.45 | 9.36 | 1.47 | 10.8308 | 0.0936425 | 0 | 0.108308 | 6 | 407 | 0.143 | 0.028700 | 0.19 | 0.1979 | 1.7 | 0.05002 | 1.6 | 0 | 0 | 0.028715 | 0.19 | 0.197921 | 1.7 | 0.049991 | 1.6 | 0.050016 | 1.6 | 0.539 | 0.54 | 0.54 | 0.54 | -0.45 | -0.45 | -0.45 | -0.45 | z1b | | |
| z1t | 184.5 | 1.1 | 184.6 | 1.1 | 184.7 | 1.9 | 188 | 21 | 0.572 | 1.73 | 0 | 0 | 187 | 21 | 184.7 | 1.9 | 188 | 21 | 187 | 21 | 0 | 0 | 0.00010 | 0.000689565 | 6.89565 | 0 | 0.50 | 20.8 | 1.63 | 22.4656 | 0.208345 | 0 | 0.224656 | 13 | 786 | 0.160 | 0.02903 | 0.59 | 0.1995 | 1.1 | 0.04984 | 0.92 | 0 | 0 | 0.029050 | 0.59 | 0.199540 | 1.1 | 0.049819 | 0.92 | 0.049848 | 0.92 | 0.572 | 0.57 | 0.57 | 0.57 | -0.057 | -0.057 | -0.057 | -0.057 | z1t | | |
| z2b | 185.20 | 0.64 | 185.29 | 0.64 | 186.5 | 5.8 | 202 | 74 | 0.631 | 8.49 | 0 | 0 | 201 | 74 | 186.5 | 5.8 | 202 | 74 | 201 | 74 | 0 | 0 | 0.00010 | 0.000280416 | 2.80416 | 0 | 0.83 | 9.25 | 2.60 | 11.8495 | 0.0924514 | 0 | 0.118495 | 4 | 215 | 0.264 | 0.02915 | 0.35 | 0.2016 | 3.4 | 0.0502 | 3.2 | 0 | 0 | 0.029160 | 0.35 | 0.201569 | 3.4 | 0.050136 | 3.2 | 0.050158 | 3.2 | 0.631 | 0.63 | 0.63 | 0.63 | -0.56 | -0.56 | -0.56 | -0.56 | z2b | | |
| z3t | 181.89 | 0.14 | 181.98 | 0.14 | 182.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |