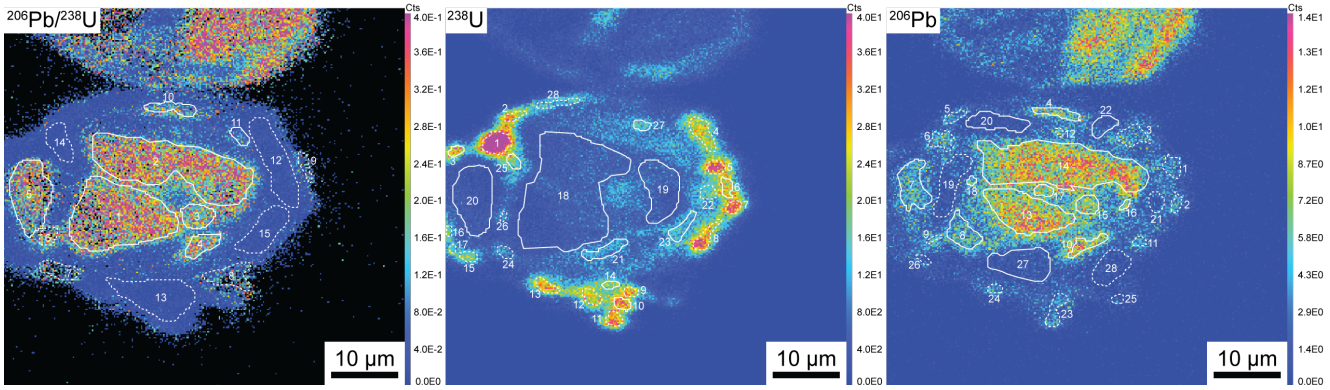
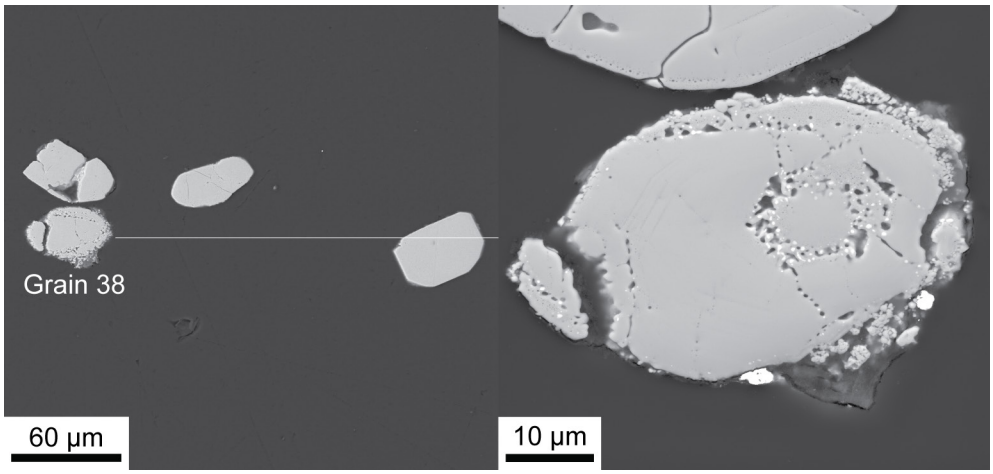
Item DR 4: SIMS ion imaging analyses - Clast-poor impact melt

Tables DR4 to DR6 only include ROIs where an ages is calculated. ROIs suffering from common Pb ($f^{206}Pb$ > 2%) and with ages with high uncertainties (absolute error exceeds age value) are excluded (these ROIs are marked by dotted lines in the U-Pb distribution maps).

Ion image 52 grain 38



Ion imaging. Solid white lines mark the regions of interests (RIOs) where an age is calculated. Dotted white lines mark the ROIs where it was not possible to calculate an age due to common Pb content higher than 2%, and high uncertainty, i.e., absolute error higher than age value.



BSE images. Left) HV = 15 kV, WD = 9.97 mm, View Field = 274.0 µm. Right) HV = 15 kV, WD = 9.00 mm, View Field = 56.8 µm; close-up of the grain from the left image. Right image shows the grain after a further polishing to remove Au coating of the SIMS ion imaging and U-Pb spot analyses.

		Measured ratios[2]								Uncorrected ratios						Corrected ratios[3]						Age [Ma]			
Area ID[1]	Area size [Pixel]	$^{204}Pb/^{206}Pb$	±σ [%]	$^{207}Pb/206Pb$	±σ [%]	$^{206}Pb/^{208}Pb$	±σ [%]	$^{206}Pb/^{238}U$	±σ [%]	$^{238}U/^{90}Zr$	±σ [%]	$^{238}U/^{206}Pb$	±σ [%]	$^{207}Pb/^{206}Pb$	±σ [%]	$f^{206}Pb$	±σ [%]	$^{238}U/^{206}Pb$	±σ [%]	$^{207}Pb/^{206}Pb$	±σ [%]	$f^{206}Pb$ [%][4]	$^{238}U/^{206}Pb$	± 1σ	$^{207}Pb/^{206}Pb$	± 1σ
$^{206}Pb/^{238}U$																										
1	2264	1.3906E-04	70.7	1.1243E-01	2.6	1.7334E-01	2.2	2.7326E-01	1.4	3.4135E+00	2.3	3.2153E+00	23.7	1.1243E-01	2.6	0.0026	0.0018	3.2069E+00	23.6	1.1055E-01	2.9	0.3	1749.7	299.7	1808.4	53.3
2	2663	1.8874E-04	50.0	1.1121E-01	2.2	1.5788E-01	1.9	2.6737E-01	1.1	3.4284E+00	1.8	3.8894E+00	12.5	1.1121E-01	2.2	0.0035	0.0018	3.8756E+00	12.5	1.0865E-01	2.5	0.4	1479.7	148.8	1776.9	46.1
3	261	6.2343E-04	100.0	1.0411E-01	8.1	1.9264E-01	6.2	1.8287E-01	3.6	4.6763E+00	6.2	5.4662E+00	23.0	1.0411E-01	8.1	0.0117	0.0117	5.4024E+00	23.6	9.5484E-02	12.9	1.2	1094.8	195.4	1537.6	242.5
4	225	0.0000E+00	0.0	9.9134E-02	8.0	3.2853E-02	13.5	2.0541E-01	3.6	3.5573E+00	5.7	5.1713E+00	19.0	9.9134E-02	8.0	0.0000	0.0000	5.1713E+00	19.0	9.9134E-02	8.0	0.0	1139.6	168.7	1607.9	148.9
5	947	9.1967E-04	57.8	1.1220E-01	5.5	1.1895E-01	5.4	1.8148E-01	2.5	3.6870E+00	4.0	5.4236E+00	38.0	1.1220E-01	5.5	0.0172	0.0099	5.3303E+00	37.7	9.9540E-02	9.9	1.7	1108.4	285.2	1615.5	184.2
10	196	0.0000E+00	0.0	8.8267E-02	11.5	1.3993E-02	27.9	1.3106E-01	4.4	4.9544E+00	7.1	7.3875E+00	22.9	8.8267E-02	11.5	0.0000	0.0000	7.3875E+00	22.9	8.8267E-02	11.5	0.0	818.4	144.6	1388.3	221.1
11	91	0.0000E+00	0.0	8.3087E-02	19.7	3.8576E-02	28.3	6.5711E-02	6.4	5.5039E+00	8.7	1.7198E+01	18.4	8.3087E-02	19.7	0.0000	0.0000	1.7198E+01	18.4	8.3087E-02	19.7	0.0	364.3	55.4	1271.3	383.8
^{238}U																										
3	46	0.0000E+00	0.0	1.6667E-01	28.9	3.0953E-01	22.4	1.1591E-02	11.3	3.6533E+01	17.6	7.0210E+01	81.3	1.6667E-01	28.9	0.0000	0.0000	7.0210E+01	81.3	1.6667E-01	28.9	0.0	91.2	40.7	2524.5	484.8
6	68	0.0000E+00	0.0	1.1640E-01	22.5	2.4868E-01	16.3	1.8355E-02	7.7	1.5860E+01	9.9	5.8897E+01	14.2	1.1640E-01	22.5	0.0000	0.0000	5.8897E+01	14.2	1.1640E-01	22.5	0.0	108.5	13.4	1901.7	404.9
10	69	0.0000E+00	0.0	1.5023E-01	19.0	3.7089E-01	13.2	1.7540E-02	7.2	3.7410E+01	13.8	4.7105E+01	38.2	1.5023E-01	19.0	0.0000	0.0000	4.7105E+01	38.2	1.5023E-01	19.0	0.0	135.4	37.2	2348.6	324.1
14	41	0.0000E+00	0.0	7.6924E-02	46.4	3.0770E-01	25.6	1.3495E-02	12.9	1.5117E+01	14.2	7.3742E+01	44.9	7.6924E-02	46.4	0.0000	0.0000	7.3742E+01	44.9	7.6924E-02	46.4	0.0	86.8	26.8	1119.2	925.8
18	3725	1.9820E-04	44.7	1.0782E-01	2.0	1.6011E-01	1.7	2.6997E-01	1.0	3.5027E+00	1.7	3.3687E+00	20.6	1.0782E-01	2.0	0.0037	0.0017	3.3562E+00	20.6	1.0511E-01	2.4	0.4	1681.2	257.4	1716.3	43.8
19	741	0.0000E+00	0.0	1.0847E-01	4.5	1.5123E-01	3.9	2.3272E-01	2.2	3.4476E+00	3.5	4.7705E+00	12.1	1.0847E-01	4.5	0.0000	0.0000	4.7705E+00	12.1	1.0847E-01	4.5	0.0	1226.8	121.9	1773.9	81.8
20	923	9.4220E-04	57.8	1.1778E-01	5.5	1.3191E-01	5.2	1.8289E-01	2.6	3.6800E+00	4.0	5.0325E+00	30.3	1.1778E-01	5.5	0.0176	0.0102	4.9438E+00	30.2	1.0490E-01	9.6	1.8	1187.5	256.8	1712.6	177.3
21	185	0.0000E+00	0.0	1.0069E-01	15.8	1.2357E-01	14.4	3.8114E-02	5.3	7.8170E+00	6.8	2.5377E+01	28.9	1.0069E-01	15.8	0.0000	0.0000	2.5377E+01	28.9	1.0069E-01	15.8	0.0	249.2	55.0	1636.8	293.8
23	130	0.0000E+00	0.0	7.4271E-02	19.6	6.1008E-02	21.5	3.9116E-02	5.7	5.9825E+00	6.6	2.9212E+01	16.8	7.4271E-02	19.6	0.0000	0.0000	2.9212E+01	16.8	7.4271E-02	19.6	0.0	217.0	30.8	1048.8	394.9
25	68	0.0000E+00	0.0	8.3334E-02	30.0	1.2500E-01	25.0	1.8463E-02	8.8	1.8804E+01	12.4	4.5117E+01	85.5	8.3334E-02	30.0	0.0000	0.0000	4.5117E+01	85.5	8.3334E-02	30.0	0.0	141.3	64.8	1277.0	585.9
27	56	0.0000E+00	0.0	9.3921E-02	25.4	4.9723E-02	34.2	4.0682E-02	8.3	7.4753E+00	10.7	2.7199E+01	29.5	9.3921E-02	25.4	0.0000	0.0000	2.7199E+01	29.5	9.3921E-02	25.4	0.0	232.8	52.3	1506.5	479.3
^{206}Pb																										
4	146	0.0000E+00	0.0	9.1970E-02	12.4	1.2953E-02	31.8	1.3348E-01	4.8	5.5615E+00	8.3	7.3454E+00	25.0	9.1970E-02	12.4	0.0000	0.0000	7.3454E+00	25.0	9.1970E-02	12.4	0.0	822.8	156.6	1466.8	235.5
7	438	0.0000E+00	0.0	1.1092E-01	7.5	1.1597E-01	7.3	2.2858E-01	3.7	3.4008E+00	5.8	3.2336E+00	48.3	1.1092E-01	7.5	0.0000	0.0000	3.2336E+00	48.3	1.1092E-01	7.5	0.0	1737.0	516.2	1814.6	136.0
8	304	7.8124E-04	100.0	1.2109E-01	8.5	1.8047E-01	7.2	2.3924E-01	4.4	3.0273E+00	6.7	3.3926E+00	45.5	1.2109E-01	8.5	0.0146	0.0146	3.3431E+00	45.1	1.1050E-01	13.7	1.5	1687.0	478.6	1807.6	248.5
10	150	0.0000E+00	0.0	1.0252E-01	9.5	3.1092E-02	16.7	2.1261E-01	4.4	3.5269E+00	7.0	5.2578E+00	19.9	1.0252E-01	9.5	0.0000	0.0000	5.2578E+00	19.9	1.0252E-01	9.5	0.0	1122.4	173.3	1670.2	175.9
13	1055	1.1031E-04	100.0	1.1583E-01	3.3	1.9272E-01	2.6	2.8848E-01	1.7	4.0648E+00	3.1	3.0525E+00	26.1	1.1583E-01	3.3	0.0021	0.0021	3.0462E+00	26.0	1.1434E-01	3.6	0.2	1830.0	337.6	1869.5	64.2
14	2543	1.8264E-04	50.0	1.0991E-01	2.2	1.5593E-01	1.8	2.5189E-01	1.1	3.6746E+00	1.8	4.0624E+00	13.0	1.0991E-01	2.2	0.0034	0.0017	4.0485E+00	13.0	1.0742E-01	2.5	0.3	1423.0	148.7	1756.1	45.7
15	151	0.0000E+00	0.0	1.0521E-01	10.3	1.8036E-01	8.1	1.6700E-01	4.5	4.2482E+00	7.3	6.8502E+00	19.5	1.0521E-01	10.3	0.0000	0.0000	6.8502E+00	19.5	1.0521E-01	10.3	0.0	878.4	135.5	1718.0	188.6
16	28	0.0000E+00	0.0	8.7719E-02	26.9	1.2281E-01	23.1	1.8838E-01	11.2	3.8720E+00	18.0	6.5087E+00	21.6	8.7719E-02	26.9	0.0000	0.0000	6.5087E+00	21.6	8.7719E-02	26.9	0.0	921.3	154.1	1376.3	517.8
17	72	0.0000E+00	0.0	1.1905E-01	14.3	1.6017E-01	12.5	1.5684E-01	6.5	4.2987E+00	10.4	5.8148E+00	37.5	1.1905E-01	14.3	0.0000	0.0000	5.8148E+00	37.5	1.1905E-01	14.3	0.0	1023.0	263.2	1942.0	255.0
18	28	0.0000E+00	0.0	8.0883E-02	31.4	8.0883E-02	31.4	2.2849E-01	13.2	4.7151E+00	24.0	3.5950E+00	89.8	8.0883E-02	31.4	0.0000	0.0000	3.5950E+00	89.8	8.0883E-02	31.4	0.0	1582.1	700.4	1218.6	616.4
20	337	0.0000E+00	0.0	1.1069E-01	19.6	2.4809E-01	13.9	2.3059E-02	6.6	5.6422E+00	5.9	3.4817E+01	40.6	1.1069E-01	19.6	0.0000	0.0000	3.4817E+01	40.6	1.1069E-01	19.6	0.0	182.5	52.2	1810.7	355.6
22	150	0.0000E+00	0.0	8.8236E-02	22.8	5.8824E-02	27.5	3.3266E-02	7.1	4.7606E+00	7.0	3.4119E+01	21.6	8.8236E-02	22.8	0.0000	0.0000	3.4119E+01	21.6	8.8236E-02	22.8	0.0	186.2	32.7	1387.6	436.9
27	635	0.0000E+00	0.0	1.0472E-01	12.5	1.7552E-01	9.9	2.2599E-02	4.1	6.9124E+00	4.0	3.9062E+01	24.0	1.0472E-01	12.5	0.0000	0.0000	3.9062E+01	24.0	1.0472E-01	12.5	0.0	163.0	31.2	1709.4	229.4

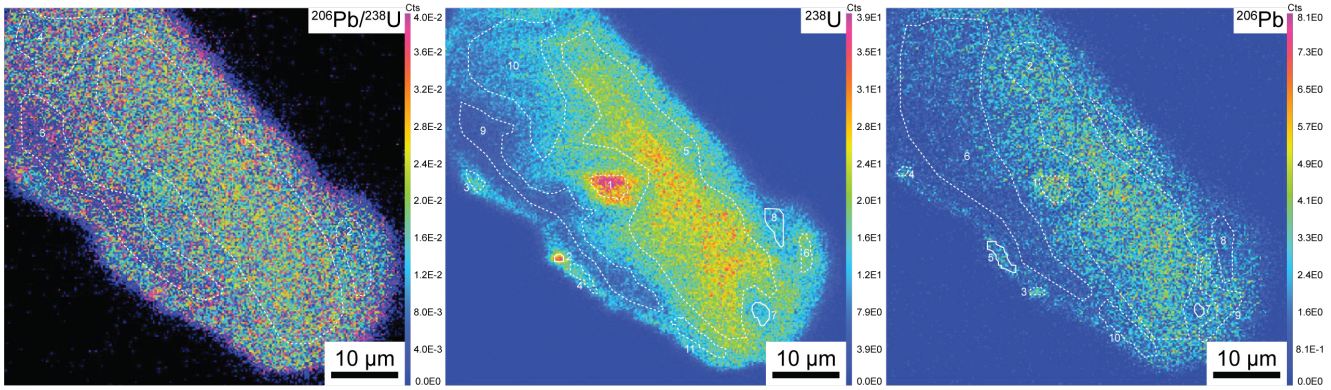
Area ID[1] corresponds to regions of interests (ROIs) used for calculation outlined in Figure above.

Measured ratios[2] are corrected fo detector gains. Uncertainties are counting statistic (Poisson) errors.

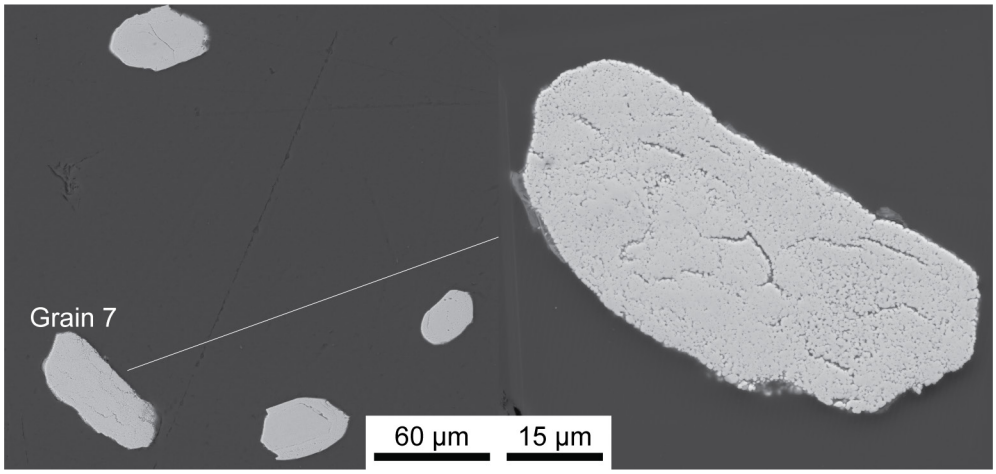
Corrected ratios[3] Values corrected for common Pb where ^{204}Pb exceeds detection limit.

^{206}Pb [%][4] Percentage of common Pb in measured ^{206}Pb, calculated from the ^{204}Pb assuming present-day Stacey & Kramers (1975) model terrestrial Pb isotope composition.

Ion image 53 grain 7



Ion imaging. Solid white lines mark the regions of interests (RIOs) where an age is calculated. Dotted white lines mark the ROIs where it was not possible to calculate an age due to common Pb content higher than 2%, and high uncertainty, i.e., absolute error higher than age value.



BSE images. Left) HV = 15 kV, WD = 9.97 mm, View Field = 261.0 µm. Right) HV = 15 kV, WD = 9.00 mm, View Field = 78.0 µm; close-up of the grain from the left image. Right image shows the grain after a further polishing to remove Au coating of the SIMS ion imaging and U-Pb spot analyses.

		Measured ratios[2]										Uncorrected ratios						Corrected ratios[3]					Age [Ma]			
Area ID[1]	Area size [Pixel]	$^{204}Pb/^{206}Pb$	±σ [%]	$^{207}Pb/^{206}Pb$	±σ [%]	$^{206}Pb/^{208}Pb$	±σ [%]	$^{206}Pb/^{238}U$	±σ [%]	$^{238}U/^{90}Zr$	±σ [%]	$^{238}U/^{206}Pb$	±σ [%]	$^{207}Pb/^{206}Pb$	±σ [%]	^{206}Pb	±σ [%]	$^{238}U/^{206}Pb$	±σ [%]	$^{207}Pb/^{206}Pb$	±σ [%]	^{206}Pb [%][4]	$^{238}U/^{206}Pb$	± 1σ	$^{207}Pb/^{206}Pb$	± 1σ
238U																										
2	25	0.0000E+00	0.0	1.7500E-01	41.0	9.4999E-01	22.6	8.9030E-03	16.2	2.0198E+01	16.8	6.7767E+01	78.8	1.7500E-01	41.0	0.0000	0.0000	6.7767E+01	78.8	1.7500E-01	41.0	0.0	94.4	41.5	2606.0	682.5
7	113	0.0000E+00	0.0	5.9072E-02	27.5	2.6160E-01	14.3	2.6139E-02	7.0	8.5217E+00	7.9	4.0687E+01	13.9	5.9072E-02	27.5	0.0000	0.0000	4.0687E+01	13.9	5.9072E-02	27.5	0.0	156.5	18.9	569.7	598.4
8	207	0.0000E+00	0.0	7.6191E-02	25.9	3.4286E-01	13.7	1.4775E-02	7.2	7.8813E+00	6.1	7.7244E+01	13.7	7.6191E-02	25.9	0.0000	0.0000	7.7244E+01	13.7	7.6191E-02	25.9	0.0	82.9	9.9	1100.1	518.7
206Pb																										
5	152	0.0000E+00	0.0	1.1236E-01	19.3	4.8315E-01	10.7	1.5667E-02	6.4	1.3829E+01	7.2	6.0387E+01	45.8	1.1236E-01	19.3	0.00000	0.00000	6.0387E+01	45.8	1.1236E-01	19.3	0.0	105.9	33.1	1837.9	348.8
7	36	0.0000E+00	0.0	3.2786E-02	71.9	3.1147E-01	26.3	2.2747E-02	13.6	9.1037E+00	15.1	4.7524E+01	34.7	3.2786E-02	71.9	0.00000	0.00000	4.7524E+01	34.7	3.2786E-02	71.9	0.0	134.2	34.3	-894.1	2081.0

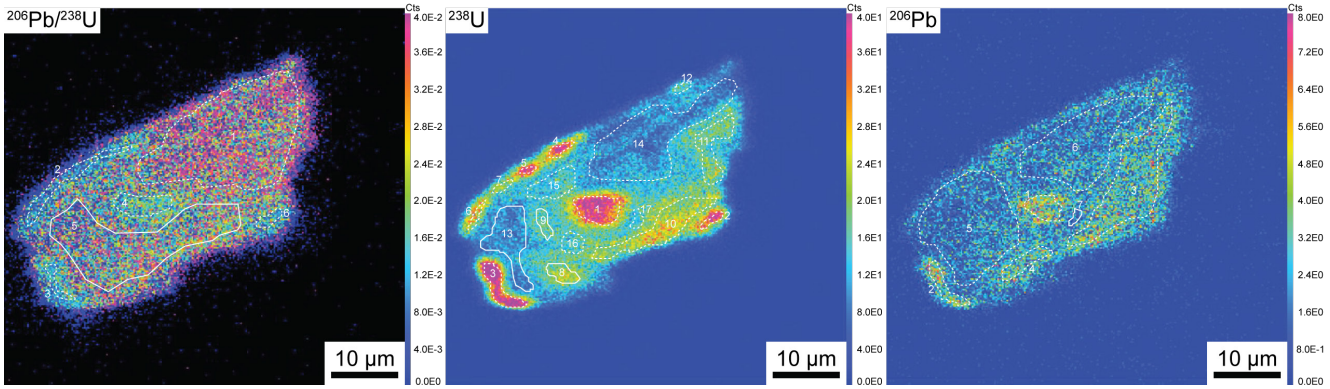
Area ID[1] corresponds to regions of interests (ROIs) used for calculation outlined in Figure above.

Measured ratios[2] are corrected fo detector gains. Uncertainties are counting statistic (Poisson) errors.

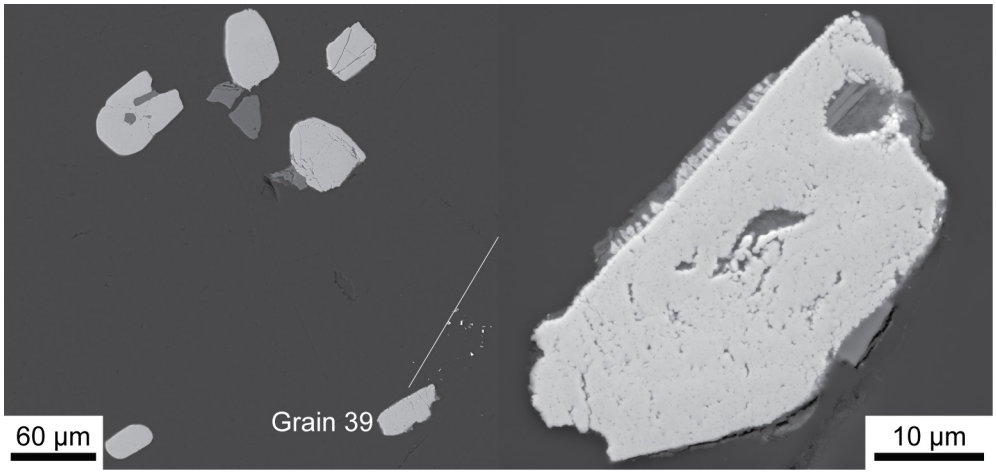
Corrected ratios[3] Values corrected for common Pb where ^{204}Pb exceeds detection limit.

^{206}Pb [%][4] Percentage of common Pb in measured ^{206}Pb, calculated from the ^{204}Pb assuming present-day Stacey & Kramers (1975) model terrestrial Pb isotope composition.

Ion image 54 grain 39



Ion imaging. Solid white lines mark the regions of interests (RIOs) where an age is calculated. Dotted white lines mark the ROIs where it was not possible to calculate an age due to common Pb content higher than 2%, and high uncertainty, i.e., absolute error higher than age value.



BSE images. Left) HV = 15 kV, WD = 9.97 mm, View Field = 353.0 µm. Right) HV = 15 kV, WD = 9.00 mm, View Field = 48.6 µm; close-up of the grain from the left image. Right image shows the grain after a further polishing to remove Au coating of the SIMS ion imaging and U-Pb spot analyses.

		Measured ratios[2]										Uncorrected ratios						Corrected ratios[3]				Age [Ma]			
Area ID[1]	Area size [Pixel]	$^{204}Pb/^{206}Pb$	±σ [%]	$^{207}Pb/^{206}Pb$	±σ [%]	$^{206}Pb/^{208}Pb$	±σ [%]	$^{206}Pb/^{238}U$	±σ [%]	$^{238}U/^{90}Zr$	±σ [%]	$^{238}U/^{206}Pb$	±σ [%]	$^{207}Pb/^{206}Pb$	±σ [%]	^{206}Pb	±σ [%]	$^{238}U/^{206}Pb$	±σ [%]	$^{207}Pb/^{206}Pb$	±σ [%]	^{206}Pb [%][4]	$^{238}U/^{206}Pb$	± 1σ	$^{207}Pb/^{206}Pb$	± 1σ
$^{206}Pb/^{238}U$																										
5	3477	9.8243E-04	35.4	6.4841E-02	4.5	2.0435E-01	2.7	2.3294E-02	1.2	1.2263E+01	1.5	4.0678E+01	15.5	6.4841E-02	4.5	0.0184	0.0065	3.9930E+01	30.9	5.0413E-02	12.0	1.8	159.5	37.3	214.1	278.9
^{238}U																										
8	189	0.0000E+00	0.0	5.5452E-02	18.8	9.6119E-02	14.5	2.2484E-02	4.6	1.3387E+01	6.0	3.6464E+01	51.9	5.5452E-02	18.8	0.0000	0.0000	3.6464E+01	51.9	5.5452E-02	18.8	0.0	174.4	59.1	430.5	418.1
9	120	0.0000E+00	0.0	7.2035E-02	25.1	2.7543E-01	14.0	1.9305E-02	6.9	1.3121E+01	8.3	5.0509E+01	61.3	7.2035E-02	25.1	0.0000	0.0000	5.0509E+01	61.3	7.2035E-02	25.1	0.0	126.4	47.7	986.9	511.0
13	826	9.6805E-04	100.1	8.0350E-02	11.4	1.5973E-01	8.4	2.1929E-02	3.3	8.6683E+00	3.5	3.8311E+01	23.6	8.0350E-02	11.4	0.0181	0.0181	3.7617E+01	74.4	6.6423E-02	25.9	1.8	169.1	71.6	819.7	541.1
^{206}Pb																										
7	43	0.0000E+00	0.0	7.6924E-02	46.4	2.9231E-01	26.1	1.9410E-02	13.1	1.5917E+01	17.4	5.6532E+01	35.1	7.6924E-02	46.4	0.0000	0.0000	5.6532E+01	35.1	7.6924E-02	46.4	0.0	113.0	29.2	1119.2	925.8

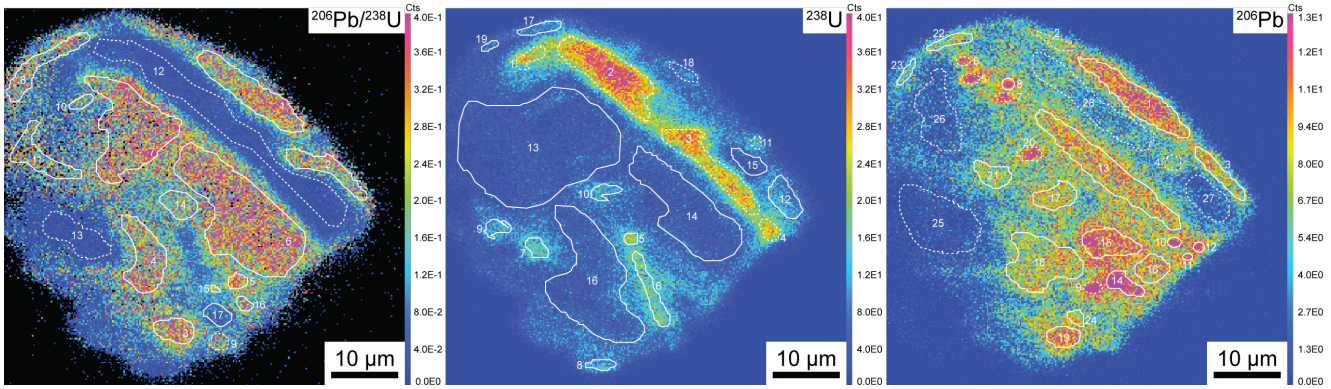
Area ID[1] corresponds to regions of interests (ROIs) used for calculation outlined in Figure above.

Measured ratios[2] are corrected fo detector gains. Uncertainties are counting statistic (Poisson) errors.

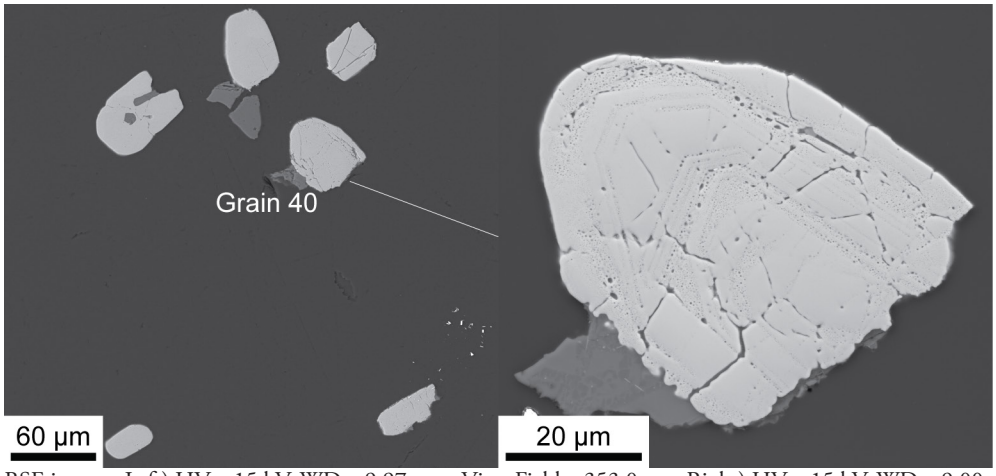
Corrected ratios[3] Values corrected for common Pb where ^{204}Pb exceeds detection limit.

^{206}Pb [%][4] Percentage of common Pb in measured ^{206}Pb, calculated from the ^{204}Pb assuming present-day Stacey & Kramers (1975) model terrestrial Pb isotope composition.

Ion image 55 grain 40



Ion imaging. Solid white lines mark the regions of interests (RIOs) where an age is calculated. Dotted white lines mark the ROIs where it was not possible to calculate an age due to common Pb content higher than 2%, and high uncertainty, i.e., absolute error higher than age value.



BSE images. Left) HV = 15 kV, WD = 9.97 mm, View Field = 353.0 µm. Right) HV = 15 kV, WD = 9.00 mm, View Field = 73.9 µm; close-up of the grain from the left image. Right image shows the grain after a further polishing to remove Au coating of the SIMS ion imaging and U-Pb spot analyses.

Area ID[1]	Area size [Pixel]	Measured ratios[2]								Uncorrected ratios								Corrected ratios[3]					Age [Ma]			
		$^{204}Pb/^{206}Pb$	±σ [%]	$^{207}Pb/^{206}Pb$	±σ [%]	$^{206}Pb/^{208}Pb$	±σ [%]	$^{206}Pb/^{238}U$	±σ [%]	$^{238}U/^{90}Zr$	±σ [%]	$^{238}U/^{206}Pb$	±σ [%]	$^{207}Pb/^{206}Pb$	±σ [%]	^{206}Pb	±σ [%]	$^{238}U/^{206}Pb$	±σ [%]	$^{207}Pb/^{206}Pb$	±σ [%]	^{206}Pb [%][4]	$^{238}U/^{206}Pb$	± 1σ	$^{207}Pb/^{206}Pb$	± 1σ
$^{206}Pb/^{238}U$																										
1	1138	4.2307E-04	44.7	1.0780E-01	3.0	3.0546E-02	5.3	2.5309E-01	1.5	5.3169E+00	2.8	4.3420E+00	4.6815	1.0780E-01	3.0	0.0079	0.0035	4.3076E+00	4.9	1.0199E-01	4.1	0.8	1345.7	56.9	1660.7	75.4
2	518	0.0000E+00	0.0	1.1289E-01	5.4	5.5280E-02	7.4	1.9885E-01	2.5	6.5643E+00	5.1	5.5944E+00	7.5686	1.1289E-01	5.4	0.0000	0.0000	5.5944E+00	7.6	1.1289E-01	5.4	0.0	1060.1	69.2	1846.4	97.0
3	328	3.1938E-04	100.0	1.1370E-01	5.6	5.0143E-02	8.2	2.8107E-01	2.9	4.1551E+00	5.3	3.3502E+00	16.0599	1.1370E-01	5.6	0.0060	0.0060	3.3302E+00	16.1	1.0936E-01	7.1	0.6	1692.7	209.7	1788.8	129.2
4	857	4.9439E-04	57.8	1.0514E-01	4.2	1.5705E-01	3.5	2.4577E-01	2.0	3.4085E+00	3.3	3.7095E+00	24.0022	1.0514E-01	4.2	0.0092	0.0053	3.6752E+00	23.9	9.8324E-02	6.1	0.9	1551.4	271.3	1592.6	113.3
5	95	0.0000E+00	0.0	9.6100E-02	7.7	1.7142E-01	6.0	3.1546E-01	3.9	6.0425E+00	8.3	3.5483E+00	11.7304	9.6100E-02	7.7	0.0000	0.0000	3.5483E+00	11.7	9.6100E-02	7.7	0.0	1600.5	150.5	1549.7	144.6
6	3521	1.8954E-04	40.8	1.1012E-01	1.8	1.3366E-01	1.6	3.0685E-01	0.9	2.5717E+00	1.4	3.6166E+00	8.8497	1.1012E-01	1.8	0.0035	0.0014	3.6038E+00	8.8	1.0754E-01	2.1	0.4	1578.7	114.7	1758.2	38.0
7	2162	2.5626E-04	50.0	1.1538E-01	2.5	1.4889E-01	2.2	2.8722E-01	1.3	2.9477E+00	2.1	3.2028E+00	23.9219	1.1538E-01	2.5	0.0048	0.0024	3.1874E+00	23.8	1.1191E-01	3.0	0.5	1759.1	303.2	1830.7	54.7
8	553	7.9050E-04	70.7	1.1146E-01	6.3	4.1106E-02	10.0	1.9629E-01	2.9	4.9982E+00	5.3	4.4703E+00	11.1589	1.1146E-01	6.3	0.0148	0.0105	4.4042E+00	12.0	1.0060E-01	10.6	1.5	1319.1	128.8	1635.1	196.5
10	88	0.0000E+00	0.0	8.1633E-02	19.6	1.1079E-01	17.1	1.6830E-01	7.7	3.8527E+00	12.0	5.4957E+00	41.9050	8.1633E-02	19.6	0.0000	0.0000	5.4957E+00	41.9	8.1633E-02	19.6	0.0	1077.7	299.9	1236.7	385.3
11	581	0.0000E+00	0.0	9.7020E-02	8.5	2.0926E-02	17.6	1.6572E-01	3.6	5.1398E+00	6.2	4.9592E+00	29.3109	9.7020E-02	8.5	0.0000	0.0000	4.9592E+00	29.3	9.7020E-02	8.5	0.0	1184.2	250.0	1567.6	158.7
14	311	8.2883E-04	70.7	1.0651E-01	6.6	1.3676E-01	5.9	1.6010E-01	2.8	3.8221E+00	4.4	6.2523E+00	25.8692	1.0651E-01	6.6	0.0155	0.0110	6.1553E+00	26.4	9.5025E-02	11.6	1.6	970.4	191.0	1528.6	217.6
15	15	0.0000E+00	0.0	1.0595E-01	18.6	2.3178E-01	13.3	2.1560E-01	8.7	9.3216E+00	21.0	5.8154E+00	65.4764	1.0595E-01	18.6	0.0000	0.0000	5.8154E+00	65.5	1.0595E-01	18.6	0.0	1022.9	385.6	1730.9	341.1
16	71	0.0000E+00	0.0	1.1346E-01	13.7	1.1731E-01	13.5	2.1679E-01	6.7	3.1668E+00	10.2	5.2139E+00	26.2177	1.1346E-01	13.7	0.0000	0.0000	5.2139E+00	26.2	1.1346E-01	13.7	0.0	1131.1	219.2	1855.6	248.3
17	172	0.0000E+00	0.0	8.5859E-02	11.3	2.6364E-01	7.0	6.1412E-02	3.7	9.0288E+00	6.1	1.7882E+01	18.3356	8.5859E-02	11.3	0.0000	0.0000	1.7882E+01	18.3	8.5859E-02	11.3	0.0	350.8	53.1	1335.0	218.5
^{238}U																										
5	48	0.0000E+00	0.0	9.0185E-02	17.9	2.0955E-01	12.4	6.8971E-02	6.1	9.8834E+00	10.9	1.1859E+01	41.8	9.0185E-02	17.9	0.0000	0.0000	1.1859E+01	41.8	9.0185E-02	17.9	0.0	521.9	149.4	1429.5	341.9
6	343	7.6568E-04	70.7	9.7626E-02	6.6	2.4732E-01	4.4	7.7156E-02	2.4	9.3548E+00	4.3	1.3475E+01	14.6	9.7626E-02	6.6	0.0143	0.0101	1.3282E+01	20.0	8.6904E-02	11.7	1.4	467.9	75.6	1358.4	225.3
7	135	0.0000E+00	0.0	5.7852E-02	27.5	2.6860E-01	14.0	2.0410E-02	6.8	1.3238E+01	8.5	5.5407E+01	45.6	5.7852E-02	27.5	0.0000	0.0000	5.5407E+01	45.6	5.7852E-02	27.5	0.0	115.3	35.9	524.2	602.9
8	94	0.0000E+00	0.0	6.6667E-02	31.1	1.3940E-01	22.3	2.5552E-02	8.4	1.0962E+01	10.6	3.8488E+01	39.7	6.6667E-02	31.1	0.0000	0.0000	3.8488E+01	39.7	6.6667E-02	31.1	0.0	165.4	46.5	827.4	649.6
9	121	0.0000E+00	0.0	1.0714E-01	27.2	1.3572E-01	24.5	1.7829E-02	8.9	2.1414E+01	13.1	5.5641E+01	46.0	1.0714E-01	27.2	0.0000	0.0000	5.5641E+01	46.0	1.0714E-01	27.2	0.0	114.8	36.0	1751.4	497.3
10	117	0.0000E+00	0.0	9.5642E-02	11.0	1.6472E-01	8.7	1.2246E-01	4.3	4.9739E+00	6.8	7.1222E+00	36.7	9.5642E-02	11.0	0.0000	0.0000	7.1222E+00	36.7	9.5642E-02	11.0	0.0	847.0	216.8	1540.8	207.4
12	343	0.0000E+00	0.0	1.0476E-01	10.6	8.1482E-02	11.9	4.3966E-02	3.7	1.0274E+01	5.6	2.4502E+01	10.0	1.0476E-01	10.6	0.0000	0.0000	2.4502E+01	10.0	1.0476E-01	10.6	0.0	257.9	23.1	1710.1	194.3
13	5579	2.4482E-04	40.8	1.0997E-01	2.0	1.2609E-01	1.9	1.9771E-01	0.9	3.6900E+00	1.5	4.4844E+00	21.9	1.0997E-01	2.0	0.0046	0.0019	4.4638E+00	21.8	1.0663E-01	2.5	0.5	1303.1	215.1	1742.6	45.2
14	2195	2.1295E-04	50.0	1.1308E-01	2.3	1.2676E-01	2.2	3.2405E-01	1.3	2.2774E+00	1.8	3.4255E+00	9.5	1.1308E-01	2.3	0.0040	0.0020	3.4119E+00	9.5	1.1019E-01	2.7	0.4	1657.0	128.2	1802.5	49.2
15	211	0.0000E+00	0.0	1.2190E-01	9.6	8.6224E-02	11.2	1.7197E-01	4.5	5.2475E+00	8.0	6.4029E+00	14.1	1.2190E-01	9.6	0.0000	0.0000	6.4029E+00	14.1	1.2190E-01	9.6	0.0	935.5	108.2	1984.3	170.0
16	2825	7.8509E-04	26.7	1.0677E-01	2.4	1.2506E-01	2.3	2.0310E-01	1.1	3.8356E+00	1.8	4.4681E+00	19.9	1.0677E-01	2.4	0.0147	0.0039	4.4025E+00	19.7	9.5912E-02	4.1	1.5	1319.5	199.1	1546.0	77.8
17	143	0.0000E+00	0.0	1.2681E-01	11.9	8.8282E-02	14.1	8.3842E-02	4.9	9.4359E+00	9.2	1.1094E+01	25.2	1.2681E-01	11.9	0.0000	0.0000	1.1094E+01	25.2	1.2681E-01	11.9	0.0	556.3	108.2	2054.1	210.8
19	43	0.0000E+00	0.0	1.5023E-01	19.0	6.5727E-02	27.6	1.2792E-01	9.1	8.3943E+00	18.4	8.8021E+00	55.6	1.5023E-01	19.0	0.0000	0.0000	8.8021E+00	55.6	1.5023E-01	19.0	0.0	693.7	239.4	2348.6	324.1
^{206}Pb																										
1	1048	3.5099E-04	50.0	1.0319E-01	3.1	2.6675E-02	5.8	2.4086E-01	1.5	5.3875E+00	2.8	4.6042E+00	4.5	1.0319E-01	3.1	0.0066	0.0033	4.5740E+00	4.7	9.8352E-02	4.1	0.7	1274.6	52.5	1593.1	76.2
3	306	0.0000E+00	0.0	1.0626E-01	6.6	4.9139E-02	9.5	1.7317E-01	2.9	7.7795E+00	6.2	6.4626E+00	8.6	1.0626E-01	6.6	0.0000	0.0000	6.4626E+00	8.6	1.0626E-01	6.6	0.0	927.5	69.0	1736.2	121.2
8	24	0.0000E+00	0.0	1.0320E-01	13.8	1.6904E-01	11.1	4.4726E-01	8.1	3.4840E+00	14.6	2.1701E+00	46.8	1.0320E-01	13.8	0.0000	0.0000	2.1701E+00	46.8	1.0320E-01	13.8	0.0	2443.2	683.6	1682.5	254.6
10	23	0.0000E+00	0.0	1.2382E-01	11.9	1.9749E-01	9.8	5.1268E-01	8.0	2.8754E+00	13.7	2.1145E+00	19.1	1.2382E-01	11.9	0.0000	0.0000	2.1145E+00	19.1	1.2382E-01	11.9	0.0	2496.4	340.8	2012.0	211.6

Area ID[1]	Area size [Pixel]	Measured ratios[2]								Uncorrected ratios								Corrected ratios[3]					Age [Ma]			
		$^{204}Pb/$ ^{206}Pb	±σ [%]	$^{207}Pb/$ ^{206}Pb	±σ [%]	$^{206}Pb/$ ^{208}Pb	±σ [%]	$^{206}Pb/$ ^{238}U	±σ [%]	$^{238}U/^{90}Zr$	±σ [%]	$^{238}U/$ ^{206}Pb	±σ [%]	$^{207}Pb/$ ^{206}Pb	±σ [%]	^{206}Pb	±σ [%]	$^{238}U/$ ^{206}Pb	±σ [%]	$^{207}Pb/$ ^{206}Pb	±σ [%]	^{206}Pb [%][4]	$^{238}U/$ ^{206}Pb	± 1σ	$^{207}Pb/$ ^{206}Pb	± 1σ
11	8	0.0000E+00	0.0	1.0227E-01	20.2	2.0833E-01	14.8	2.3996E-01	9.6	4.4635E+00	17.3	4.7585E+00	34.0	1.0227E-01	20.2	0.0000	0.0000	4.7585E+00	34.0	1.0227E-01	20.2	0.0	1229.6	290.2	1665.7	373.9
12	21	0.0000E+00	0.0	1.1304E-01	14.6	2.1956E-01	11.0	1.7629E-01	6.7	5.6372E+00	12.4	6.4161E+00	38.1	1.1304E-01	14.6	0.0000	0.0000	6.4161E+00	38.1	1.1304E-01	14.6	0.0	933.7	244.2	1848.9	264.6
13	1557	1.4182E-04	70.7	1.0729E-01	2.7	1.3182E-01	2.5	2.6848E-01	1.4	2.9340E+00	2.1	4.0535E+00	9.0	1.0729E-01	2.7	0.0027	0.0019	4.0427E+00	9.0	1.0535E-01	3.1	0.3	1424.8	106.9	1720.5	56.2
14	219	0.0000E+00	0.0	8.9996E-02	5.7	1.6675E-01	4.3	2.5484E-01	2.6	6.4069E+00	5.5	4.1472E+00	15.4	8.9996E-02	5.7	0.0000	0.0000	4.1472E+00	15.4	8.9996E-02	5.7	0.0	1392.6	169.0	1425.5	109.2
15	505	0.0000E+00	0.0	1.0730E-01	4.1	1.3974E-01	3.7	2.9371E-01	2.1	3.3599E+00	3.5	3.6650E+00	7.9	1.0730E-01	4.1	0.0000	0.0000	3.6650E+00	7.9	1.0730E-01	4.1	0.0	1555.3	102.5	1754.1	75.2
16	284	7.3419E-04	70.7	1.0316E-01	6.3	1.5198E-01	5.3	2.3587E-01	3.0	3.9288E+00	5.1	5.0545E+00	12.3	1.0316E-01	6.3	0.0137	0.0097	4.9851E+00	13.1	9.2958E-02	10.6	1.4	1178.5	126.1	1487.0	201.7
17	336	7.2567E-04	70.7	1.0014E-01	6.3	1.4369E-01	5.4	1.5492E-01	2.7	4.2765E+00	4.2	6.1995E+00	22.9	1.0014E-01	6.3	0.0136	0.0096	6.1153E+00	23.4	9.0025E-02	10.8	1.4	976.3	174.2	1426.1	206.9
18	1199	3.3123E-04	57.7	1.0522E-01	3.4	1.7025E-01	2.8	1.8981E-01	1.5	4.2631E+00	2.6	5.0457E+00	17.8	1.0522E-01	3.4	0.0062	0.0036	5.0144E+00	17.7	1.0067E-01	4.5	0.6	1172.2	163.5	1636.5	82.8
19	225	8.2506E-04	70.7	1.0561E-01	6.6	3.3828E-02	11.2	2.9432E-01	3.4	4.2551E+00	6.2	3.0843E+00	13.8	1.0561E-01	6.6	0.0154	0.0109	3.0367E+00	14.0	9.4167E-02	11.6	1.5	1835.0	199.5	1511.5	219.0
21	270	0.0000E+00	0.0	1.1517E-01	7.4	1.6348E-01	6.3	2.8859E-01	3.9	3.1866E+00	6.4	3.3949E+00	53.6	1.1517E-01	7.4	0.0000	0.0000	3.3949E+00	53.6	1.1517E-01	7.4	0.0	1664.3	533.6	1882.5	132.9
22	165	9.6804E-04	100.1	1.0939E-01	9.9	5.4211E-02	13.7	1.8456E-01	4.5	6.1259E+00	8.8	5.0432E+00	24.3	1.0939E-01	9.9	0.0181	0.0181	4.9519E+00	25.6	9.5999E-02	18.5	1.8	1185.7	224.6	1547.8	347.3
23	77	0.0000E+00	0.0	1.1346E-01	16.1	2.6385E-02	32.0	2.5018E-01	8.1	5.1432E+00	15.6	2.7486E+00	57.3	1.1346E-01	16.1	0.0000	0.0000	2.7486E+00	57.3	1.1346E-01	16.1	0.0	2000.3	659.1	1855.5	290.8
24	78	0.0000E+00	0.0	9.7643E-02	13.8	1.9360E-01	10.2	1.5559E-01	5.7	5.0405E+00	9.8	6.2998E+00	23.9	9.7643E-02	13.8	0.0000	0.0000	6.2998E+00	23.9	9.7643E-02	13.8	0.0	949.7	172.4	1579.6	257.4

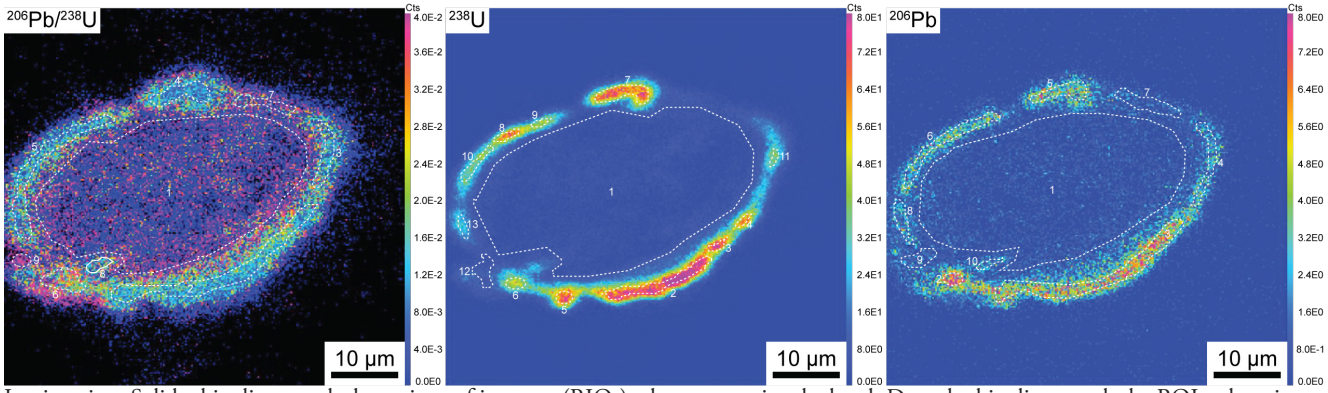
Area ID[1] corresponds to regions of interests (ROIs) used for calculation outlined in Figure above.

Measured ratios[2] are corrected fo detector gains. Uncertainties are counting statistic (Poisson) errors.

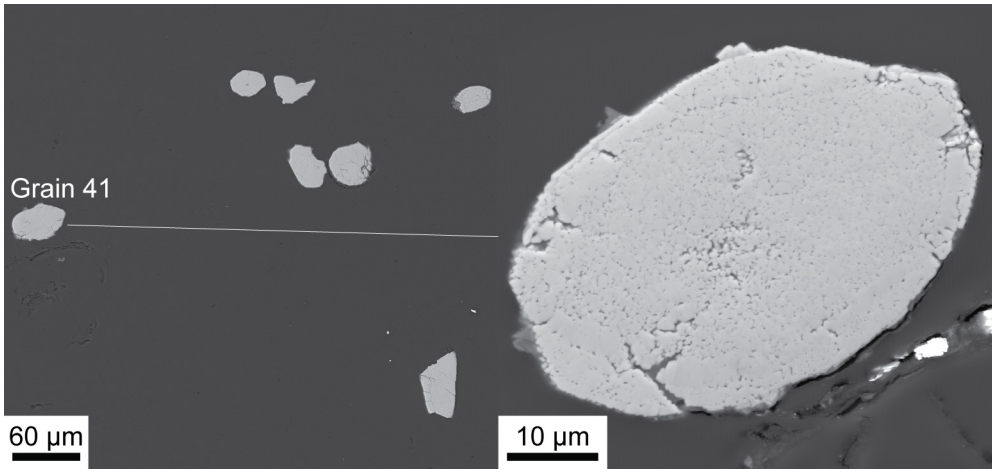
Corrected ratios[3] Values corrected for common Pb where ^{204}Pb exceeds detection limit.

^{206}Pb [%][4] Percentage of common Pb in measured ^{206}Pb, calculated from the ^{204}Pb assuming present-day Stacey & Kramers (1975) model terrestrial Pb isotope composition.

Ion image 56 grain 41



Ion imaging. Solid white lines mark the regions of interests (RIOs) where an age is calculated. Dotted white lines mark the ROIs where it was not possible to calculate an age due to common Pb content higher than 2%, and high uncertainty, i.e., absolute error higher than age value.



BSE images. Left) HV = 15 kV, WD = 9.97 mm, View Field = 444.0 µm. Right) HV = 15 kV, WD = 9.00 mm, View Field = 55.2 µm; close-up of the grain from the left image. Right image shows the grain after a further polishing to remove Au coating of the SIMS ion imaging and U-Pb spot analyses.

		Measured ratios[2]										Uncorrected ratios						Corrected ratios[3]					Age [Ma]			
Area ID[1]	Area size [Pix-el]	$^{204}Pb/^{206}Pb$	±σ [%]	$^{207}Pb/^{206}Pb$	±σ [%]	$^{206}Pb/^{208}Pb$	±σ [%]	$^{206}Pb/^{238}U$	±σ [%]	$^{238}U/^{90}Zr$	±σ [%]	$^{238}U/^{206}Pb$	±σ [%]	$^{207}Pb/^{206}Pb$	±σ [%]	^{206}Pb	±σ [%]	$^{238}U/^{206}Pb$	±σ [%]	$^{207}Pb/^{206}Pb$	±σ [%]	^{206}Pb [%][4]	$^{238}U/^{206}Pb$	± 1σ	$^{207}Pb/^{206}Pb$	± 1σ
$^{206}Pb/^{238}U$																										
8	96	0.0000E+00	0.0	2.0667E-01	19.7	5.2667E-01	13.9	1.4562E-02	8.5	2.0645E+01	11.2	6.3626E+01	74.6	2.0667E-01	19.7	0.0000	0.0000	6.3626E+01	74.6	2.0667E-01	19.7	0.0	100.5	42.8	2879.6	320.5

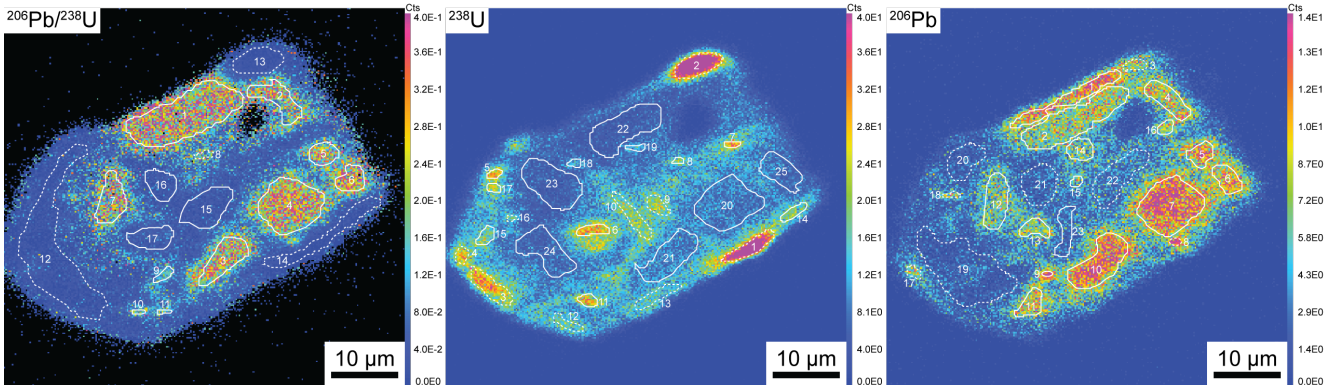
Area ID[1] corresponds to regions of interests (ROIs) used for calculation outlined in Figure above.

Measured ratios[2] are corrected fo detector gains. Uncertainties are counting statistic (Poisson) errors.

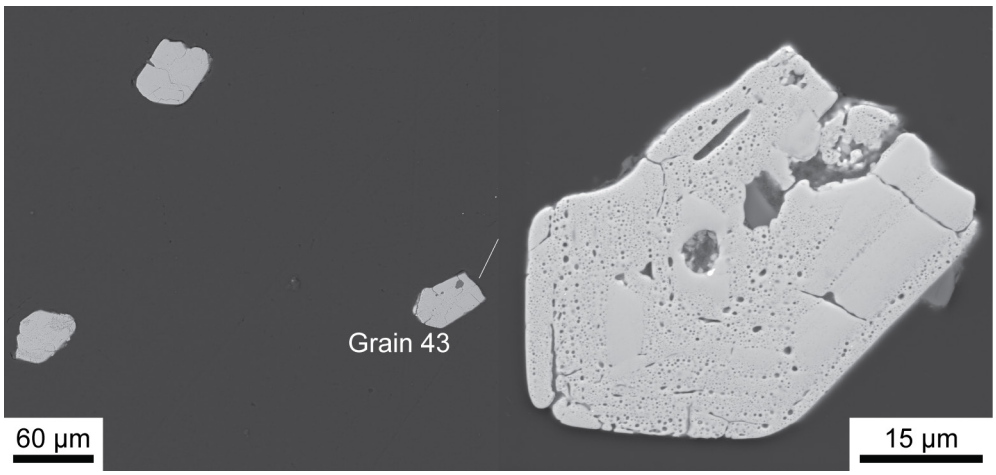
Corrected ratios[3] Values corrected for common Pb where ^{204}Pb exceeds detection limit.

^{206}Pb [%][4] Percentage of common Pb in measured ^{206}Pb, calculated from the ^{204}Pb assuming present-day Stacey & Kramers (1975) model terrestrial Pb isotope composition.

Ion image 57 grain 43



Ion imaging. Solid white lines mark the regions of interests (RIOs) where an age is calculated. Dotted white lines mark the ROIs where it was not possible to calculate an age due to common Pb content higher than 2%, and high uncertainty, i.e., absolute error higher than age value.



BSE images. Left) HV = 15 kV, WD = 9.97 mm, View Field = 373.0 µm. Right) HV = 15 kV, WD = 9.00 mm, View Field = 61.3 µm; close-up of the grain from the left image. Right image shows the grain after a further polishing to remove Au coating of the SIMS ion imaging and U-Pb spot analyses.

Area ID[1]	Area size [Pixel]	Measured ratios[2]								Uncorrected ratios							Corrected ratios[3]					Age [Ma]			
		$^{204}Pb/^{206}Pb$	±σ [%]	$^{207}Pb/^{206}Pb$	±σ [%]	$^{206}Pb/^{208}Pb$	±σ [%]	$^{206}Pb/^{238}U$	±σ [%]	$^{238}U/^{90}Zr$	±σ [%]	$^{238}U/^{206}Pb$	±σ [%]	$^{207}Pb/^{206}Pb$	±σ [%]	^{206}Pb	±σ [%]	$^{238}U/^{206}Pb$	±σ [%]	$^{207}Pb/^{206}Pb$	±σ [%]	^{206}Pb [%][4]	$^{238}U/^{206}Pb$	± 1σ	$^{207}Pb/^{206}Pb$	± 1σ
$^{206}Pb/^{238}U$																									
1	1713	7.3500E-05	100.0	8.9378E-02	3.0	1.1356E-01	2.7	2.4366E-01	1.4	4.9277E+00	2.5	4.1910E+00	14.1	8.9378E-02	3.0	0.0014	0.0014	4.1852E+00	14.0	8.8351E-02	3.2	0.1	1381.2	154.9	1390.1	62.3
2	426	6.0058E-04	70.7	1.0240E-01	5.7	1.3363E-01	5.1	1.9055E-01	2.5	5.4751E+00	4.7	5.8992E+00	7.2	1.0240E-01	5.7	0.0112	0.0079	5.8329E+00	8.6	9.4071E-02	9.0	1.1	1020.0	74.9	1509.5	169.2
3	496	0.0000E+00	0.0	9.3592E-02	4.3	1.0618E-01	4.1	2.2325E-01	1.9	5.1595E+00	3.7	4.8425E+00	10.3	9.3592E-02	4.3	0.0000	0.0000	4.8425E+00	10.3	9.3592E-02	4.3	0.0	1210.2	103.9	1499.9	82.1
4	1078	7.5515E-05	100.0	9.1147E-02	3.0	1.2875E-01	2.6	2.4930E-01	1.4	4.9781E+00	2.6	4.4932E+00	5.9	9.1147E-02	3.0	0.0014	0.0014	4.4868E+00	5.9	9.0094E-02	3.3	0.1	1297.0	66.0	1427.5	62.4
5	211	0.0000E+00	0.0	9.2842E-02	7.3	2.1603E-01	5.1	2.0761E-01	3.2	6.3874E+00	6.5	5.4664E+00	11.1	9.2842E-02	7.3	0.0000	0.0000	5.4664E+00	11.1	9.2842E-02	7.3	0.0	1083.0	100.6	1484.7	138.3
6	238	0.0000E+00	0.0	8.9697E-02	7.3	1.1412E-01	6.6	2.5007E-01	3.3	4.4323E+00	6.0	4.4264E+00	11.1	8.9697E-02	7.3	0.0000	0.0000	4.4264E+00	11.1	8.9697E-02	7.3	0.0	1313.1	119.6	1419.1	140.3
7	427	3.9872E-04	100.0	8.7719E-02	7.0	1.2560E-01	6.0	2.0481E-01	3.0	4.5069E+00	5.2	4.1948E+00	28.1	8.7719E-02	7.0	0.0075	0.0075	4.1635E+00	28.1	8.2100E-02	10.3	0.7	1387.6	279.7	1247.9	201.1
9	65	0.0000E+00	0.0	8.2757E-02	13.4	1.4483E-01	10.4	1.2254E-01	4.9	1.0471E+01	10.8	9.5123E+00	54.8	8.2757E-02	13.4	0.0000	0.0000	9.5123E+00	54.8	8.2757E-02	13.4	0.0	644.4	220.7	1263.5	262.3
10	21	0.0000E+00	0.0	5.9137E-02	31.0	1.7741E-01	18.9	1.4191E-01	10.0	9.4804E+00	21.9	3.3392E+00	91.7	5.9137E-02	31.0	0.0000	0.0000	3.3392E+00	91.7	5.9137E-02	31.0	0.0	1688.7	752.8	572.2	675.0
11	20	0.0000E+00	0.0	7.6433E-02	30.0	1.5923E-01	21.5	1.2677E-01	10.6	6.6443E+00	19.3	1.0547E+01	75.6	7.6433E-02	30.0	0.0000	0.0000	1.0547E+01	75.6	7.6433E-02	30.0	0.0	584.0	245.0	1106.4	598.6
15	589	0.0000E+00	0.0	6.6476E-02	9.6	2.7966E-01	5.1	2.8682E-02	2.6	1.0317E+01	3.3	3.6861E+01	15.6	6.6476E-02	9.6	0.0000	0.0000	3.6861E+01	15.6	6.6476E-02	9.6	0.0	172.6	23.0	821.4	200.3
16	296	0.0000E+00	0.0	8.5035E-02	14.7	3.2994E-01	8.3	2.7301E-02	4.4	8.8462E+00	5.2	3.2146E+01	29.5	8.5035E-02	14.7	0.0000	0.0000	3.2146E+01	29.5	8.5035E-02	14.7	0.0	197.5	44.5	1316.3	285.6
17	333	5.8513E-04	100.0	7.2557E-02	9.3	2.2001E-01	5.7	3.9454E-02	2.7	9.0071E+00	3.7	2.4170E+01	23.7	7.2557E-02	9.3	0.0109	0.0109	2.3905E+01	35.5	6.4113E-02	17.2	1.1	264.2	68.2	745.4	362.8
^{238}U																									
5	38	0.0000E+00	0.0	6.9565E-02	36.6	3.5652E-01	18.2	1.9453E-02	9.9	2.5214E+01	16.3	4.6526E+01	72.0	6.9565E-02	36.6	0.0000	0.0000	4.6526E+01	72.0	6.9565E-02	36.6	0.0	137.1	57.0	915.5	752.2
6	116	1.3387E-03	100.1	7.4965E-02	13.9	2.1285E-01	8.7	4.1307E-02	4.1	1.0979E+01	6.3	3.0183E+01	31.5	7.4965E-02	13.9	0.0250	0.0251	2.9427E+01	83.4	5.5432E-02	41.8	2.5	130.9	38.4	-306.5	986.8
7	34	0.0000E+00	0.0	4.0698E-02	38.6	2.9070E-01	16.1	3.0360E-02	8.3	1.8124E+01	14.3	4.8747E+01	41.9	4.0698E-02	38.6	0.0000	0.0000	4.8747E+01	41.9	4.0698E-02	38.6	0.0	227.8	79.8	2084.8	539.6
8	22	0.0000E+00	0.0	1.2903E-01	30.7	2.2581E-01	24.2	3.7356E-02	11.5	1.3805E+01	18.9	2.7801E+01	54.9	1.2903E-01	30.7	0.0000	0.0000	2.7801E+01	54.9	1.2903E-01	30.7	0.0	155.7	24.2	378.8	492.3
11	75	0.0000E+00	0.0	7.5539E-02	16.0	1.5827E-01	11.5	5.0245E-02	4.8	1.6734E+01	9.8	1.8920E+01	47.8	7.5539E-02	16.0	0.0000	0.0000	1.8920E+01	47.8	7.5539E-02	16.0	0.0	332.0	105.5	1082.9	320.9
14	94	0.0000E+00	0.0	8.3624E-02	21.3	2.0209E-01	14.4	2.8477E-02	6.4	1.4837E+01	9.7	4.2695E+01	29.7	8.3624E-02	21.3	0.0000	0.0000	4.2695E+01	29.7	8.3624E-02	21.3	0.0	149.2	33.9	1283.8	413.9
15	91	0.0000E+00	0.0	2.6191E-01	19.5	6.4287E-01	14.2	1.3105E-02	9.3	2.6219E+01	13.1	5.8910E+01	55.4	2.6191E-01	19.5	0.0000	0.0000	5.8910E+01	55.4	2.6191E-01	19.5	0.0	108.5	38.5	3258.2	307.7
17	40	0.0000E+00	0.0	4.2017E-02	45.7	2.3530E-01	21.0	2.3362E-02	9.8	1.9258E+01	15.5	3.0925E+01	94.1	4.2017E-02	45.7	0.0000	0.0000	3.0925E+01	94.1	4.2017E-02	45.7	0.0	205.2	98.7	-225.5	1149.6
18	39	0.0000E+00	0.0	1.6250E-01	29.9	2.3750E-01	25.5	3.1161E-02	12.2	1.4236E+01	18.9	3.0941E+01	38.9	1.6250E-01	29.9	0.0000	0.0000	3.0941E+01	38.9	1.6250E-01	29.9	0.0	205.0	56.8	2481.9	504.2
19	35	0.0000E+00	0.0	7.0796E-02	25.9	8.4070E-02	23.9	9.4681E-02	8.3	8.1039E+00	15.1	9.9251E+00	48.0	7.0796E-02	25.9	0.0000	0.0000	9.9251E+00	48.0	7.0796E-02	25.9	0.0	618.8	194.3	951.5	529.3
20	970	8.3595E-05	100.0	9.1621E-02	3.2	1.2673E-01	2.7	2.5100E-01	1.5	4.8698E+00	2.7	4.4565E+00	6.1	9.1621E-02	3.2	0.0016	0.0016	4.4495E+00	6.1	9.0456E-02	3.5	0.2	1306.9	68.7	1435.2	65.9
21	634	0.0000E+00	0.0	8.9903E-02	4.0	1.0393E-01	3.7	2.2062E-01	1.7	4.9061E+00	3.2	4.8790E+00	7.9	8.9903E-02	4.0	0.0000	0.0000	4.8790E+00	7.9	8.9903E-02	4.0	0.0	1201.9	80.7	1423.5	75.8
22	842	0.0000E+00	0.0	9.1896E-02	4.6	1.2377E-01	4.0	2.3628E-01	2.1	4.0797E+00	3.6	4.3035E+00	22.8	9.1896E-02	4.6	0.0000	0.0000	4.3035E+00	22.8	9.1896E-02	4.6	0.0	1346.9	229.6	1465.2	87.4
23	793	0.0000E+00	0.0	8.7301E-02	6.1	1.3374E-01	5.0	1.3709E-01	2.3	4.6595E+00	3.7	6.5725E+00	19.6	8.7301E-02	6.1	0.0000	0.0000	6.5725E+00	19.6	8.7301E-02	6.1	0.0	913.0	141.2	1367.2	116.5
24	610	8.6430E-04	100.0	7.8653E-02	10.9	1.9361E-01	7.3	4.9320E-02	3.3	7.9319E+00	4.8	1.7798E+01	31.1	7.8653E-02	10.9	0.0162	0.0162	1.7510E+01	42.3	6.6215E-02	23.4	1.6	358.0	104.4	813.2	490.3
25	394	0.0000E+00	0.0	8.9146E-02	5.8	1.5393E-01	4.6	2.0547E-01	2.5	5.4867E+00	4.7	5.5885E+00	5.8	8.9146E-02	5.8	0.0000	0.0000	5.5885E+00	5.8	8.9146E-02	5.8	0.0	1061.2	54.3	1407.3	111.4
^{206}Pb																									
1	483	1.9330E-04	100.0	8.7762E-02	4.9	1.2623E-01	4.2	1.7920E-01	2.0	9.5661E+00	4.7	5.6147E+00	12.0	8.7762E-02	4.9	0.0036	0.0036	5.5944E+00	1.2127E+01	8.5049E-02	6.0	0.4	1060.1	106.6	1316.7	116.3
2	1165	0.0000E+00	0.0	9.2734E-02	3.8	1.1544E-01	3.4	2.4195E-01	1.7	4.1661E+00	3.0	4.3685E+00	12.8	9.2734E-02	3.8	0.0000	0.0000	4.3685E+00	1.2843E+01	9.2734E-02	3.8	0.0	1328.8	138.1	1482.5	71.1

Area ID[1]	Area size [Pixel]	Measured ratios[2]										Uncorrected ratios						Corrected ratios[3]					Age [Ma]			
		$^{204}Pb/^{206}Pb$	±σ [%]	$^{207}Pb/^{206}Pb$	±σ [%]	$^{206}Pb/^{208}Pb$	±σ [%]	$^{206}Pb/^{238}U$	±σ [%]	$^{238}U/^{90}Zr$	±σ [%]	$^{238}U/^{206}Pb$	±σ [%]	$^{207}Pb/^{206}Pb$	±σ [%]	^{206}Pb	±σ [%]	$^{238}U/^{206}Pb$	±σ [%]	$^{207}Pb/^{206}Pb$	±σ [%]	^{206}Pb [%][4]	$^{238}U/^{206}Pb$	± 1σ	$^{207}Pb/^{206}Pb$	± 1σ
4	362	3.3669E-04	100.0	1.0471E-01	6.0	1.2458E-01	5.5	1.9420E-01	2.7	5.5795E+00	5.1	5.8319E+00	7.4	1.0471E-01	6.0	0.0063	0.0063	5.7951E+00	8.2179E+00	1.0008E-01	7.8	0.6	1026.2	72.4	1625.6	145.7
5	194	0.0000E+00	0.0	9.1656E-02	7.6	2.2405E-01	5.2	2.0187E-01	3.3	6.3645E+00	6.6	5.7092E+00	17.0	9.1656E-02	7.6	0.0000	0.0000	5.7092E+00	1.7023E+01	9.1656E-02	7.6	0.0	1040.5	141.3	1460.3	144.5
6	233	0.0000E+00	0.0	9.0988E-02	7.3	1.1540E-01	6.6	2.4366E-01	3.3	4.9145E+00	6.2	4.5490E+00	12.1	9.0988E-02	7.3	0.0000	0.0000	4.5490E+00	1.2113E+01	9.0988E-02	7.3	0.0	1281.0	126.8	1446.4	139.0
7	1100	7.3995E-05	100.0	9.1977E-02	3.0	1.2794E-01	2.5	2.4965E-01	1.4	4.9452E+00	2.6	4.5155E+00	5.4	9.1977E-02	3.0	0.0014	0.0014	4.5093E+00	5.3880E+00	9.0946E-02	3.2	0.1	1291.2	60.1	1445.5	61.1
9	10	0.0000E+00	0.0	7.4378E-02	20.0	1.4325E-01	14.8	1.3628E-01	7.1	1.2661E+01	17.6	6.7165E+00	61.4	7.4378E-02	20.0	0.0000	0.0000	6.7165E+00	6.1392E+01	7.4378E-02	20.0	0.0	894.7	325.9	1051.7	402.0
10	756	0.0000E+00	0.0	9.0876E-02	3.7	1.0708E-01	3.4	2.0665E-01	1.6	5.1219E+00	2.9	5.2925E+00	7.7	9.0876E-02	3.7	0.0000	0.0000	5.2925E+00	7.7020E+00	9.0876E-02	3.7	0.0	1115.7	73.7	1444.0	70.3
11	204	0.0000E+00	0.0	8.6305E-02	8.5	1.4614E-01	6.7	8.6403E-02	3.0	1.1343E+01	6.1	1.0626E+01	36.1	8.6305E-02	8.5	0.0000	0.0000	1.0626E+01	3.6127E+01	8.6305E-02	8.5	0.0	579.8	148.9	1345.0	164.3
12	446	3.8095E-04	100.0	8.8761E-02	6.8	1.2952E-01	5.8	1.9678E-01	2.9	4.6136E+00	5.0	4.0862E+00	27.2	8.8761E-02	6.8	0.0071	0.0071	4.0571E+00	2.7195E+01	8.3402E-02	9.8	0.7	1420.3	278.5	1278.6	191.3
13	165	9.1239E-04	100.1	8.4853E-02	10.8	1.9890E-01	7.4	4.5392E-02	3.4	1.0405E+01	5.3	2.1091E+01	16.5	8.4853E-02	10.8	0.0171	0.0171	2.0731E+01	4.0083E+01	7.1819E-02	22.8	1.7	303.7	85.4	980.8	465.2
14	194	8.7259E-04	100.0	8.4642E-02	10.6	1.3438E-01	8.6	1.1279E-01	3.8	6.6024E+00	6.7	9.0673E+00	24.0	8.4642E-02	10.6	0.0163	0.0163	8.9193E+00	2.7976E+01	7.2182E-02	21.8	1.6	685.0	143.7	991.1	444.3
15	44	0.0000E+00	0.0	1.1789E-01	19.6	1.2602E-01	19.1	1.0882E-01	8.2	5.6979E+00	13.4	1.0237E+01	46.8	1.1789E-01	19.6	0.0000	0.0000	1.0237E+01	4.6847E+01	1.1789E-01	19.6	0.0	600.8	185.7	1924.4	351.8
16	67	0.0000E+00	0.0	7.9769E-02	16.2	1.9066E-01	11.0	1.6072E-01	6.2	5.1650E+00	10.8	6.8473E+00	13.9	7.9769E-02	16.2	0.0000	0.0000	6.8473E+00	1.3863E+01	7.9769E-02	16.2	0.0	878.7	100.8	1191.3	320.4
23	242	0.0000E+00	0.0	5.5092E-02	17.9	2.7379E-01	8.8	2.9240E-02	4.4	1.0922E+01	5.9	3.2524E+01	28.6	5.5092E-02	17.9	0.0000	0.0000	3.2524E+01	2.8575E+01	5.5092E-02	17.9	0.0	195.2	42.9	415.9	399.5

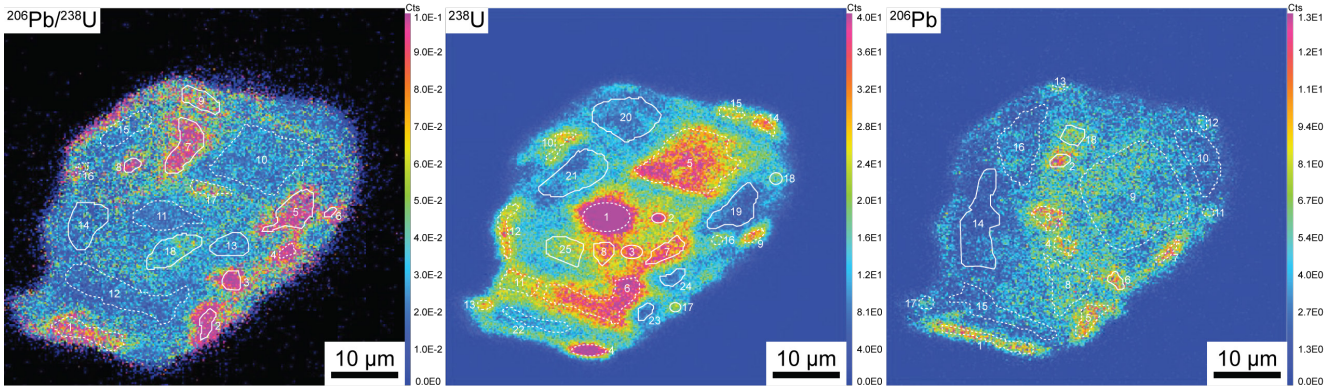
Area ID[1] corresponds to regions of interests (ROIs) used for calculation outlined in Figure above.

Measured ratios[2] are corrected fo detector gains. Uncertainties are counting statistic (Poisson) errors.

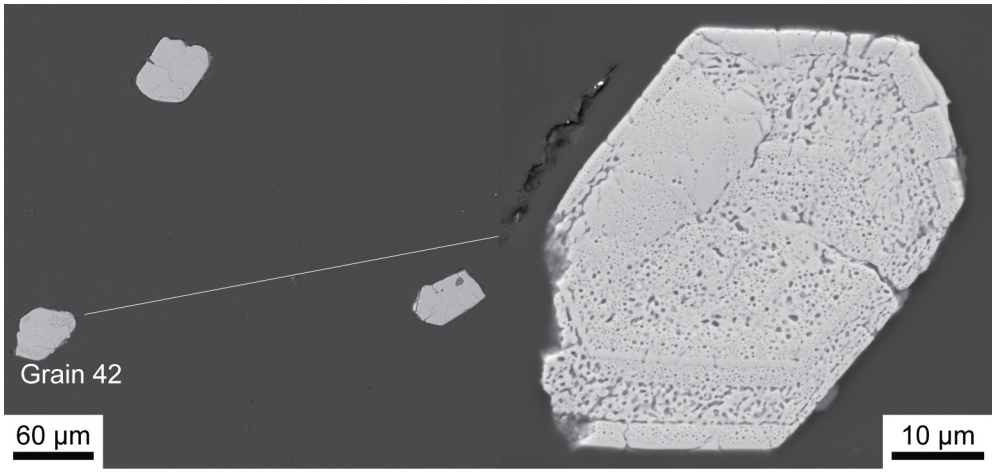
Corrected ratios[3] Values corrected for common Pb where ^{204}Pb exceeds detection limit.

^{206}Pb [%][4] Percentage of common Pb in measured ^{206}Pb, calculated from the ^{204}Pb assuming present-day Stacey & Kramers (1975) model terrestrial Pb isotope composition.

Ion image 58 grain 42



Ion imaging. Solid white lines mark the regions of interests (RIOs) where an age is calculated. Dotted white lines mark the ROIs where it was not possible to calculate an age due to common Pb content higher than 2%, and high uncertainty, i.e., absolute error higher than age value.



BSE images. Left) HV = 15 kV, WD = 9.97 mm, View Field = 373.0 µm. Right) HV = 15 kV, WD = 9.00 mm, View Field = 54.4 µm; close-up of the grain from the left image. Right image shows the grain after a further polishing to remove Au coating of the SIMS ion imaging and U-Pb spot analyses.

		Measured ratios[2]										Uncorrected ratios						Corrected ratios[3]					Age [Ma]			
Area ID[1]	Area size [Pixel]	$^{204}Pb/^{206}Pb$	±σ [%]	$^{207}Pb/^{206}Pb$	±σ [%]	$^{206}Pb/^{208}Pb$	±σ [%]	$^{206}Pb/^{238}U$	±σ [%]	$^{238}U/^{90}Zr$	±σ [%]	$^{238}U/^{206}Pb$	±σ [%]	$^{207}Pb/^{206}Pb$	±σ [%]	^{206}Pb	±σ [%]	$^{238}U/^{206}Pb$	±σ [%]	$^{207}Pb/^{206}Pb$	±σ [%]	^{206}Pb [%][4]	$^{238}U/^{206}Pb$	± 1σ	$^{207}Pb/^{206}Pb$	± 1σ
$^{206}Pb/^{238}U$																										
2	132	0.0000E+00	0.0	8.7402E-02	10.3	7.3694E-02	11.2	1.5897E-01	4.1	6.6370E+00	7.9	6.2149E+00	24.8	8.7402E-02	10.3	0.0000	0.0000	6.2149E+00	24.8	8.7402E-02	10.3	0.0	961.8	180.0	1369.4	198.8
3	121	0.0000E+00	0.0	1.0331E-01	10.4	7.9236E-02	11.7	1.4470E-01	4.3	5.2820E+00	7.4	7.2058E+00	22.9	1.0331E-01	10.4	0.0000	0.0000	7.2058E+00	22.9	1.0331E-01	10.4	0.0	837.7	147.9	1684.4	191.0
5	449	0.0000E+00	0.0	9.3347E-02	7.8	8.8189E-02	8.0	1.0952E-01	2.9	6.5162E+00	5.1	1.0349E+01	8.0	9.3347E-02	7.8	0.0000	0.0000	1.0349E+01	8.0	9.3347E-02	7.8	0.0	594.6	42.3	1494.9	147.0
6	34	0.0000E+00	0.0	1.1111E-01	26.4	1.8750E-01	21.0	1.1141E-01	10.8	8.2703E+00	20.8	1.0159E+01	35.0	1.1111E-01	26.4	0.0000	0.0000	1.0159E+01	35.0	1.1111E-01	26.4	0.0	605.2	151.6	1817.7	478.4
7	483	0.0000E+00	0.0	8.4621E-02	6.1	3.0930E-02	9.9	1.0809E-01	2.2	8.4520E+00	4.2	9.1849E+00	21.8	8.4621E-02	6.1	0.0000	0.0000	9.1849E+00	21.8	8.4621E-02	6.1	0.0	666.2	114.5	1306.9	118.8
8	66	0.0000E+00	0.0	4.9429E-02	28.4	3.8022E-02	32.2	1.0491E-01	7.9	5.7130E+00	12.7	9.4871E+00	42.9	4.9429E-02	28.4	0.0000	0.0000	9.4871E+00	42.9	4.9429E-02	28.4	0.0	646.0	187.4	168.2	663.6
9	240	0.0000E+00	0.0	8.3028E-02	12.6	4.6398E-02	16.6	6.3449E-02	4.1	9.4593E+00	7.0	1.6118E+01	14.4	8.3028E-02	12.6	0.0000	0.0000	1.6118E+01	14.4	8.3028E-02	12.6	0.0	388.0	47.6	1269.9	246.3
13	285	7.9301E-04	100.0	7.1371E-02	10.9	3.0293E-01	5.8	2.3548E-02	3.0	2.4677E+01	5.4	4.5976E+01	16.1	7.1371E-02	10.9	0.0148	0.0148	4.5294E+01	71.0	5.9866E-02	23.8	1.5	140.8	58.1	598.7	515.5
14	542	0.0000E+00	0.0	8.2001E-02	11.5	3.1900E-01	6.4	1.8836E-02	3.3	2.1230E+01	5.0	4.7331E+01	24.4	8.2001E-02	11.5	0.0000	0.0000	4.7331E+01	24.4	8.2001E-02	11.5	0.0	134.8	26.2	1245.5	225.0
18	467	3.5906E-04	100.0	6.3554E-02	7.8	2.8869E-01	4.0	3.3003E-02	2.1	2.2072E+01	4.1	2.9657E+01	23.4	6.3554E-02	7.8	0.0067	0.0067	2.9458E+01	30.7	5.8335E-02	12.4	0.7	215.2	49.9	542.3	271.8
^{238}U																										
2	23	0.0000E+00	0.0	5.5336E-02	27.5	2.2925E-01	14.6	2.4060E-02	6.7	2.3638E+01	11.9	4.3699E+01	31.4	5.5336E-02	27.5	0.0000	0.0000	4.3699E+01	31.4	5.5336E-02	27.5	0.0	145.9	34.6	425.8	612.5
3	64	0.0000E+00	0.0	7.1856E-02	14.9	2.8443E-01	8.2	3.2614E-02	4.2	2.3022E+01	8.4	3.4644E+01	26.8	7.1856E-02	14.9	0.0000	0.0000	3.4644E+01	26.8	7.1856E-02	14.9	0.0	183.4	38.3	981.9	304.2
7	220	9.4427E-04	100.1	7.1765E-02	11.9	2.6534E-01	6.7	2.2957E-02	3.3	2.8007E+01	6.2	4.7458E+01	15.5	7.1765E-02	11.9	0.0177	0.0177	4.6620E+01	86.7	5.8032E-02	28.7	1.8	136.8	63.2	531.0	629.4
8	149	0.0000E+00	0.0	8.0346E-02	12.9	2.9172E-01	7.4	2.7595E-02	3.8	2.4756E+01	7.3	3.5660E+01	30.1	8.0346E-02	12.9	0.0000	0.0000	3.5660E+01	30.1	8.0346E-02	12.9	0.0	178.3	40.8	1205.5	253.9
17	16	0.0000E+00	0.0	4.1283E-02	34.0	1.3302E-01	19.8	6.1658E-02	7.9	1.7295E+01	17.6	1.7759E+01	44.4	4.1283E-02	34.0	0.0000	0.0000	1.7759E+01	44.4	4.1283E-02	34.0	0.0	353.1	106.5	-270.1	864.1
18	24	0.0000E+00	0.0	6.0241E-02	46.0	2.7711E-01	23.6	1.9579E-02	11.6	2.4318E+01	19.0	5.9748E+01	35.8	6.0241E-02	46.0	0.0000	0.0000	5.9748E+01	35.8	6.0241E-02	46.0	0.0	107.0	28.0	612.2	995.0
19	535	0.0000E+00	0.0	9.1346E-02	7.2	9.0035E-02	7.3	1.0622E-01	2.7	7.0680E+00	4.7	1.0652E+01	6.9	9.1346E-02	7.2	0.0000	0.0000	1.0652E+01	6.9	9.1346E-02	7.2	0.0	578.5	35.8	1453.8	137.5
20	910	0.0000E+00	0.0	9.2655E-02	5.8	4.5198E-02	8.1	6.7920E-02	2.0	8.2890E+00	3.3	1.4948E+01	16.1	9.2655E-02	5.8	0.0000	0.0000	1.4948E+01	16.1	9.2655E-02	5.8	0.0	417.4	56.3	1480.8	109.4
21	783	4.3478E-04	100.0	9.5218E-02	7.1	8.4348E-02	7.5	4.2822E-02	2.3	1.0096E+01	3.5	2.1738E+01	23.6	9.5218E-02	7.1	0.0081	0.0081	2.1562E+01	29.4	8.9147E-02	10.3	0.8	292.3	65.3	1407.3	197.0
23	78	0.0000E+00	0.0	1.1111E-01	12.3	5.8558E-02	16.5	1.6887E-01	5.5	5.2072E+00	9.7	6.1498E+00	36.9	1.1111E-01	12.3	0.0000	0.0000	6.1498E+00	36.9	1.1111E-01	12.3	0.0	971.2	247.5	1817.6	222.4
24	114	0.0000E+00	0.0	9.4169E-02	11.4	8.5200E-02	11.9	1.3674E-01	4.5	5.9624E+00	8.0	7.7345E+00	13.8	9.4169E-02	11.4	0.0000	0.0000	7.7345E+00	13.8	9.4169E-02	11.4	0.0	783.8	90.3	1511.5	215.4
25	342	8.9685E-04	100.0	7.1749E-02	11.6	2.9148E-01	6.3	2.5943E-02	3.2	2.0139E+01	5.4	3.1292E+01	37.0	7.1749E-02	11.6	0.0168	0.0168	3.0767E+01	64.6	5.8717E-02	27.1	1.7	206.2	80.1	556.6	591.0
^{206}Pb																										
2	83	0.0000E+00	0.0	8.8528E-02	12.4	2.9925E-02	20.7	1.1333E-01	4.6	1.1656E+01	10.4	8.9810E+00	31.6	8.8528E-02	12.4	0.00000	0.00000	8.9810E+00	31.6	8.8528E-02	12.4	0.0	680.6	157.0	1394.0	237.5
6	73	0.0000E+00	0.0	9.3095E-02	13.7	9.1490E-02	13.8	1.4332E-01	5.5	5.8314E+00	9.7	8.2323E+00	18.1	9.3095E-02	13.7	0.00000	0.00000	8.2323E+00	18.1	9.3095E-02	13.7	0.0	739.0	108.2	1489.8	259.9
14	1077	5.1203E-04	100.0	7.6805E-02	8.5	2.2632E-01	5.3	2.2500E-02	2.4	1.6224E+01	3.5	4.1817E+01	18.9	7.6805E-02	8.5	0.00958	0.00958	4.1417E+01	44.6	6.9468E-02	14.3	1.0	153.8	47.0	912.7	295.0
18	154	0.0000E+00	0.0	9.5439E-02	11.0	2.0148E-02	23.2	1.1507E-01	4.2	6.6500E+00	7.5	8.6473E+00	23.9	9.5439E-02	11.0	0.00000	0.00000	8.6473E+00	23.9	9.5439E-02	11.0	0.0	705.4	130.0	1536.8	207.5

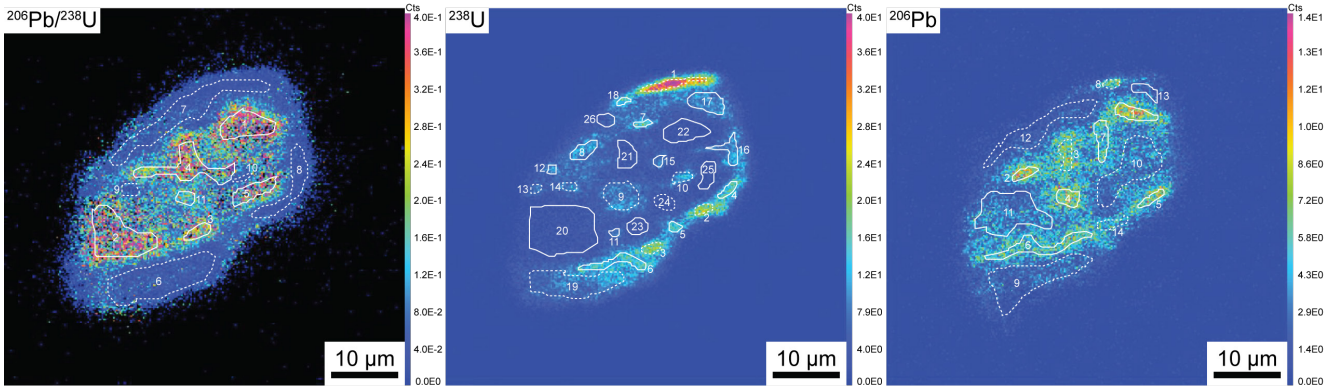
Area ID[1] corresponds to regions of interests (ROIs) used for calculation outlined in Figure above.

Measured ratios[2] are corrected fo detector gains. Uncertainties are counting statistic (Poisson) errors.

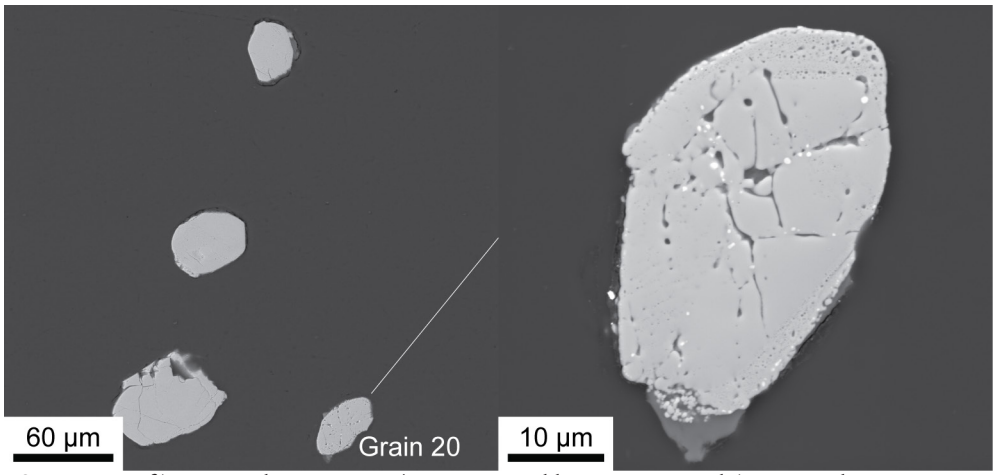
Corrected ratios[3] Values corrected for common Pb where ^{204}Pb exceeds detection limit.

^{206}Pb [%][4] Percentage of common Pb in measured ^{206}Pb, calculated from the ^{204}Pb assuming present-day Stacey & Kramers (1975) model terrestrial Pb isotope composition.

Ion image 59 grain 20



Ion imaging. Solid white lines mark the regions of interests (RIOs) where an age is calculated. Dotted white lines mark the ROIs where it was not possible to calculate an age due to common Pb content higher than 2%, and high uncertainty, i.e., absolute error higher than age value.



BSE images. Left) HV = 15 kV, WD = 9.94 mm, View Field = 301.0 µm. Right) HV = 15 kV, WD = 9.00 mm, View Field = 52.1 µm; close-up of the grain from the left image. Right image shows the grain after a further polishing to remove Au coating of the SIMS ion imaging and U-Pb spot analyses.

Area ID[1]	Area size [Pixel]	Measured ratios[2]								Uncorrected ratios							Corrected ratios[3]					Age [Ma]			
		$^{204}Pb/^{206}Pb$	±σ [%]	$^{207}Pb/^{206}Pb$	±σ [%]	$^{206}Pb/^{208}Pb$	±σ [%]	$^{206}Pb/^{238}U$	±σ [%]	$^{238}U/^{90}Zr$	±σ [%]	$^{238}U/^{206}Pb$	±σ [%]	$^{207}Pb/^{206}Pb$	±σ [%]	^{206}Pb	±σ [%]	$^{238}U/^{206}Pb$	±σ [%]	$^{207}Pb/^{206}Pb$	±σ [%]	^{206}Pb [%][4]	$^{238}U/^{206}Pb$	± 1σ	$^{207}Pb/^{206}Pb$	± 1σ
$^{206}Pb/^{238}U$																									
1	441	5.1519E-04	100.0	1.2004E-01	6.9	1.5765E-01	6.2	2.9897E-01	3.8	1.4754E+00	4.8	3.9080E+00	8.1	1.2004E-01	6.9	0.0096	0.0096	3.8703E+00	8.9	1.1308E-01	9.7	1.0	1481.5	109.1	1849.5	175.9
2	859	2.9257E-04	100.0	1.0767E-01	5.5	1.8110E-01	4.4	2.5962E-01	2.7	2.1556E+00	3.8	3.2959E+00	25.6	1.0767E-01	5.5	0.0055	0.0055	3.2779E+00	25.5	1.0366E-01	6.9	0.5	1716.4	314.0	1690.7	128.0
3	112	0.0000E+00	0.0	1.1913E-01	12.6	2.2148E-01	9.6	2.2948E-01	6.3	2.2859E+00	8.7	4.2577E+00	34.1	1.1913E-01	12.6	0.0000	0.0000	4.2577E+00	34.1	1.1913E-01	12.6	0.0	1360.0	319.7	1943.2	224.4
4	606	9.2164E-04	57.8	1.1091E-01	5.6	1.6590E-01	4.7	2.3228E-01	2.7	2.7297E+00	4.0	4.3733E+00	19.7	1.1091E-01	5.6	0.0172	0.0100	4.2979E+00	19.8	9.8194E-02	10.0	1.7	1348.5	204.6	1590.1	187.4
5	235	0.0000E+00	0.0	1.0579E-01	11.5	1.2091E-01	10.8	2.2088E-01	5.4	1.3499E+00	6.3	5.0159E+00	16.7	1.0579E-01	11.5	0.0000	0.0000	5.0159E+00	16.7	1.0579E-01	11.5	0.0	1171.9	155.4	1728.1	210.5
11	85	0.0000E+00	0.0	9.6344E-02	13.8	1.5947E-01	11.0	1.5035E-01	5.6	2.9867E+00	7.7	7.7017E+00	26.1	9.6344E-02	13.8	0.0000	0.0000	7.7017E+00	26.1	9.6344E-02	13.8	0.0	787.0	155.0	1554.5	258.1
^{238}U																									
4	62	0.0000E+00	0.0	1.0067E-01	19.1	1.0738E-01	18.6	5.4945E-02	6.7	1.1002E+01	11.5	1.9602E+01	19.8	1.0067E-01	19.1	0.0000	0.0000	1.9602E+01	19.8	1.0067E-01	19.1	0.0	320.8	52.0	1636.5	355.6
5	40	0.0000E+00	0.0	2.1374E-01	20.8	3.2061E-01	17.7	4.4464E-02	9.8	1.1398E+01	15.9	2.8114E+01	41.9	2.1374E-01	20.8	0.0000	0.0000	2.8114E+01	41.9	2.1374E-01	20.8	0.0	225.3	65.7	2934.1	336.6
6	181	9.7798E-03	50.2	1.4914E-01	13.7	2.0783E-01	11.9	2.9069E-02	5.4	8.9334E+00	6.5	3.3300E+01	29.3	1.4914E-01	13.7	0.1829	0.0919	2.7209E+01	375.3	-4.5324E-03	-2610.7	18.3	142.7	41.5	3158.6	457.2
7	32	0.0000E+00	0.0	2.4590E-01	28.8	2.9509E-01	26.8	2.2955E-02	13.7	9.8237E+00	15.6	4.4680E+01	41.5	2.4590E-01	28.8	0.0000	0.0000	4.4680E+01	41.5	2.4590E-01	28.8	0.0	271.3	72.6	1708.2	322.4
8	140	0.0000E+00	0.0	1.0465E-01	17.5	4.6512E-02	25.6	4.3810E-02	6.1	9.1345E+00	8.8	2.3265E+01	37.3	1.0465E-01	17.5	0.0000	0.0000	2.3265E+01	37.3	1.0465E-01	17.5	0.0	721.4	129.4	1812.2	128.4
11	27	0.0000E+00	0.0	1.3793E-01	26.7	1.5517E-01	25.3	9.1438E-02	11.6	4.1374E+00	15.6	1.0074E+01	52.9	1.3793E-01	26.7	0.0000	0.0000	1.0074E+01	52.9	1.3793E-01	26.7	0.0	610.1	204.6	2201.4	463.1
12	31	0.0000E+00	0.0	1.7391E-01	38.3	1.7391E-01	38.3	2.7623E-02	15.9	8.6571E+00	18.7	2.9874E+01	79.6	1.7391E-01	38.3	0.0000	0.0000	2.9874E+01	79.6	1.7391E-01	38.3	0.0	212.3	93.2	2595.7	638.8
15	41	0.0000E+00	0.0	1.1927E-01	20.8	2.2936E-01	15.7	1.2634E-01	9.0	3.7770E+00	12.9	9.7081E+00	32.8	1.1927E-01	20.8	0.0000	0.0000	9.7081E+00	32.8	1.1927E-01	20.8	0.0	632.0	150.6	1945.3	371.0
16	142	0.0000E+00	0.0	1.1333E-01	18.1	1.7667E-01	14.9	3.8503E-02	6.4	5.0434E+00	6.8	2.9453E+01	18.9	1.1333E-01	18.1	0.0000	0.0000	2.9453E+01	18.9	1.1333E-01	18.1	0.0	215.2	33.7	1853.5	327.2
17	260	0.0000E+00	0.0	9.7326E-02	11.0	1.2727E-01	9.7	6.7293E-02	3.9	5.5965E+00	5.3	1.7767E+01	10.2	9.7326E-02	11.0	0.0000	0.0000	1.7767E+01	10.2	9.7326E-02	11.0	0.0	353.0	31.8	1573.5	205.6
18	30	0.0000E+00	0.0	3.8096E-01	29.4	7.6191E-01	23.5	1.6791E-02	16.2	2.0805E+01	22.9	6.0098E+01	46.5	3.8096E-01	29.4	0.0000	0.0000	6.0098E+01	46.5	3.8096E-01	29.4	0.0	106.4	33.6	3835.6	443.8
20	1280	2.1786E-04	100.0	1.1133E-01	4.7	1.9041E-01	3.7	2.3186E-01	2.3	2.2101E+00	3.1	3.6004E+00	27.2	1.1133E-01	4.7	0.0041	0.0041	3.5857E+00	27.1	1.0837E-01	5.5	0.4	1585.7	306.9	1772.1	101.2
21	182	8.9284E-04	100.0	1.1250E-01	9.4	2.3482E-01	6.8	3.0591E-01	5.0	2.3335E+00	7.4	3.2111E+00	33.1	1.1250E-01	9.4	0.0167	0.0167	3.1575E+00	33.0	1.0022E-01	16.6	1.7	1773.6	396.6	1628.1	308.8
22	318	8.6955E-04	100.0	1.2522E-01	8.8	1.5826E-01	8.0	2.8133E-01	4.8	1.2409E+00	5.7	4.2573E+00	12.0	1.2522E-01	8.8	0.0163	0.0163	4.1881E+00	13.8	1.1347E-01	14.6	1.6	1380.3	152.1	1855.8	263.6
23	118	0.0000E+00	0.0	8.0000E-02	15.3	1.7392E-01	10.8	2.3215E-01	6.4	2.4821E+00	9.2	4.1032E+00	32.6	8.0000E-02	15.3	0.0000	0.0000	4.1032E+00	32.6	8.0000E-02	15.3	0.0	1406.0	318.1	1197.0	302.1
25	138	0.0000E+00	0.0	1.0098E-01	16.4	9.1133E-02	17.2	1.9864E-01	7.3	1.3386E+00	8.3	5.3700E+00	14.3	1.0098E-01	16.4	0.0000	0.0000	5.3700E+00	14.3	1.0098E-01	16.4	0.0	1100.9	127.6	1642.3	304.2
26	78	0.0000E+00	0.0	1.4131E-01	29.6	2.5000E-01	23.3	4.2508E-02	11.7	4.8654E+00	12.8	2.1948E+01	39.1	1.4131E-01	29.6	0.0000	0.0000	2.1948E+01	39.1	1.4131E-01	29.6	0.0	287.2	79.4	2243.3	512.2
^{206}Pb																									
1	186	7.2096E-04	100.0	1.1103E-01	8.5	1.4924E-01	7.4	2.9279E-01	4.5	2.7174E+00	6.9	3.9696E+00	17.3	1.1103E-01	8.5	0.0135	0.0135	3.9161E+00	17.9	1.0113E-01	13.8	1.3	1466.1	202.1	1644.9	256.1
2	80	0.0000E+00	0.0	1.0314E-01	12.6	2.6905E-02	23.9	2.0456E-01	5.8	6.6350E+00	11.9	4.7002E+00	37.2	1.0314E-01	12.6	0.0000	0.0000	4.7002E+00	37.2	1.0314E-01	12.6	0.0	1243.5	313.9	1681.3	233.4
4	137	0.0000E+00	0.0	1.0831E-01	10.4	1.8086E-01	8.3	1.4526E-01	4.4	3.0592E+00	6.1	7.6060E+00	28.0	1.0831E-01	10.4	0.0000	0.0000	7.6060E+00	28.0	1.0831E-01	10.4	0.0	796.3	165.9	1771.1	189.3
5	84	0.0000E+00	0.0	1.0427E-01	13.4	4.1025E-02	20.8	1.1681E-01	5.4	5.3751E+00	8.8	9.7530E+00	26.0	1.0427E-01	13.4	0.0000	0.0000	9.7530E+00	26.0	1.0427E-01	13.4	0.0	629.2	124.8	1701.5	247.7
6	391	9.6477E-04	70.7	1.1577E-01	6.8	1.7993E-01	5.6	1.9125E-01	3.2	2.8713E+00	4.6	4.4827E+00	21.7	1.1577E-01	6.8	0.0180	0.0128	4.4018E+00	22.1	1.0255E-01	12.3	1.8	1319.7	219.7	1670.7	227.2
7	179	0.0000E+00	0.0	9.6810E-02	11.2	1.4521E-01	9.3	2.1601E-01	5.0	2.5180E+00	7.1	5.3013E+00	18.2	9.6810E-02	11.2	0.0000	0.0000	5.3013E+00	18.2	9.6810E-02	11.2	0.0	1114.0	159.6	1563.5	209.2
11	977	3.6941E-04	100.0	1.1895E-01	5.9	2.0244E-01	4.7	1.4634E-01	2.6	2.8545E+00	3.5	5.7346E+00	25.4	1.1895E-01	5.9	0.0069	0.0069	5.6950E+00	25.5	1.1397E-01	7.6	0.7	1042.9	198.9	1863.6	137.5
13	100	0.0000E+00	0.0	1.6754E-01	19.1	2.9843E-01	15.1	2.6210E-02	7.8	7.6242E+00	8.4	4.6250E+01	15.6	1.6754E-01	19.1	0.0000	0.0000	4.6250E+01	15.6	1.6754E-01	19.1	0.0	137.9	18.4	2533.2	320.5

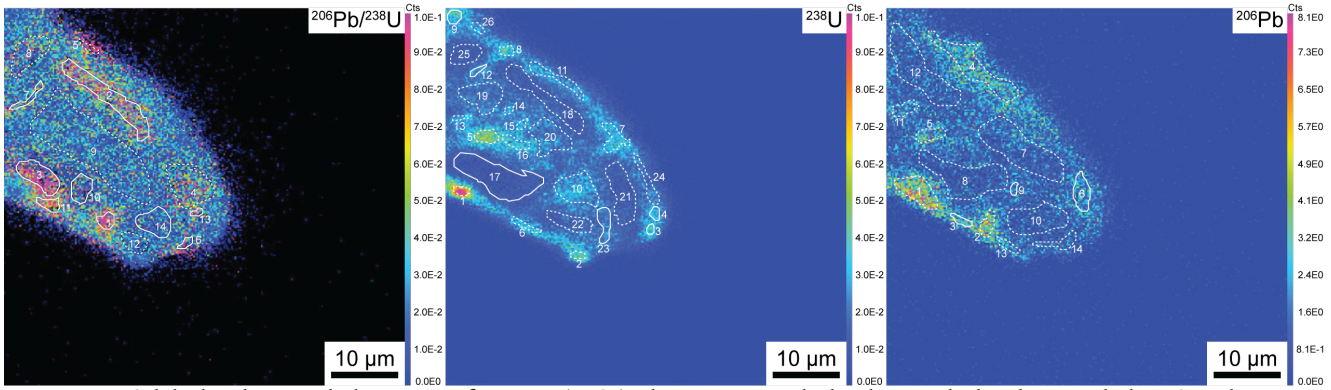
Area ID[1] corresponds to regions of interests (ROIs) used for calculation outlined in Figure above.

Measured ratios[2] are corrected fo detector gains. Uncertainties are counting statistic (Poisson) errors.

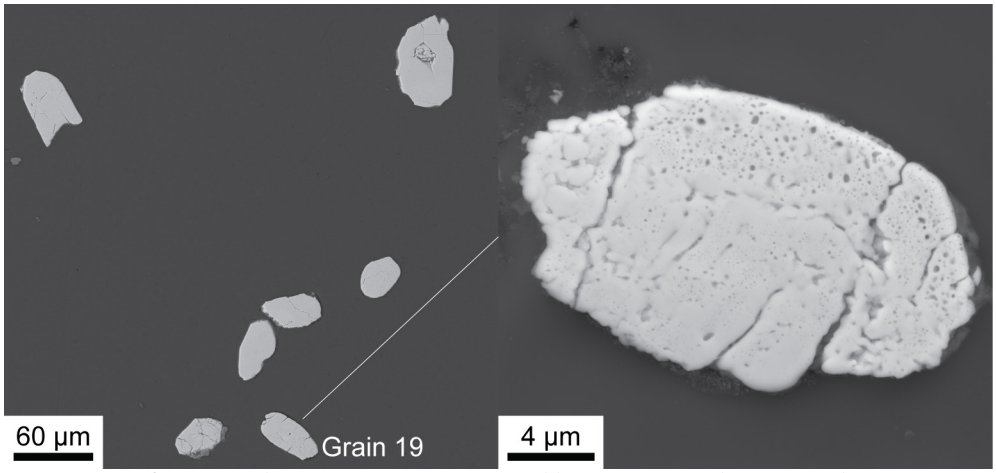
Corrected ratios[3] Values corrected for common Pb where ^{204}Pb exceeds detection limit.

^{206}Pb [%][4] Percentage of common Pb in measured ^{206}Pb, calculated from the ^{204}Pb assuming present-day Stacey & Kramers (1975) model terrestrial Pb isotope composition.

Ion image 60 grain 19



Ion imaging. Solid white lines mark the regions of interests (RIOs) where an age is calculated. Dotted white lines mark the ROIs where it was not possible to calculate an age due to common Pb content higher than 2%, and high uncertainty, i.e., absolute error higher than age value.



BSE images. Left) HV = 15 kV, WD = 9.94 mm, View Field = 379.0 µm. Right) HV = 15 kV, WD = 9.03 mm, View Field = 23.0 µm; close-up of the grain from the left image. Right image shows the grain after a further polishing to remove Au coating of the SIMS ion imaging and U-Pb spot analyses.

Area ID[1]	Area size [Pixel]	Measured ratios[2]										Uncorrected ratios						Corrected ratios[3]					Age [Ma]			
		$^{204}Pb/^{206}Pb$	±σ [%]	$^{207}Pb/^{206}Pb$	±σ [%]	$^{206}Pb/^{208}Pb$	±σ [%]	$^{206}Pb/^{238}U$	±σ [%]	$^{238}U/^{90}Zr$	±σ [%]	$^{238}U/^{206}Pb$	±σ [%]	$^{207}Pb/^{206}Pb$	±σ [%]	^{206}Pb	±σ [%]	$^{238}U/^{206}Pb$	±σ [%]	$^{207}Pb/^{206}Pb$	±σ [%]	^{206}Pb [%][4]	$^{238}U/^{206}Pb$	± 1σ	$^{207}Pb/^{206}Pb$	± 1σ
$^{206}Pb/^{238}U$																										
1	93	0.0000E+00	0.0	9.5376E-02	18.2	1.6763E-01	14.2	1.2246E-01	7.1	5.2224E+00	11.5	8.0315E+00	63.5	9.5376E-02	18.2	0.0000	0.0000	8.0315E+00	63.5	0.0954	1.8220E+01	0.0	756.5	283.3	1535.5	342.6
2	696	6.8212E-04	100.0	9.5498E-02	8.9	1.5621E-01	7.1	6.4752E-02	3.1	5.0827E+00	4.0	1.3509E+01	29.8	9.5498E-02	8.9	0.0128	0.0128	1.3336E+01	34.2	0.0859	1.5157E+01	1.3	466.1	115.6	1336.7	293.0
3	358	0.0000E+00	0.0	1.0296E-01	11.7	1.5058E-01	9.9	1.1210E-01	4.6	5.3138E+00	7.4	8.2889E+00	32.2	1.0296E-01	11.7	0.0000	0.0000	8.2889E+00	32.2	0.1030	1.1740E+01	0.0	734.3	171.4	1678.2	216.9
6	49	0.0000E+00	0.0	4.3397E-01	25.0	7.7361E-01	20.8	3.8498E-02	15.2	8.4823E+00	20.4	2.2442E+01	34.8	4.3397E-01	25.0	0.0000	0.0000	2.2442E+01	34.8	0.4340	2.4970E+01	0.0	281.0	71.4	4031.2	372.6
7	70	0.0000E+00	0.0	6.1855E-02	42.1	1.5464E-01	27.7	3.0501E-02	11.1	6.2983E+00	11.8	3.8104E+01	95.4	6.1855E-02	42.1	0.0000	0.0000	3.8104E+01	95.4	0.0619	4.2070E+01	0.0	167.0	81.0	669.1	900.4
10	196	0.0000E+00	0.0	1.2069E-01	23.1	1.6092E-01	20.4	3.3154E-02	8.3	6.9292E+00	9.5	2.8205E+01	24.3	1.2069E-01	23.1	0.0000	0.0000	2.8205E+01	24.3	0.1207	2.3100E+01	0.0	224.6	43.4	1966.4	412.0
11	95	0.0000E+00	0.0	7.9294E-02	17.3	8.8105E-02	16.5	7.9321E-02	5.7	5.7703E+00	8.4	1.0603E+01	72.7	7.9294E-02	17.3	0.0000	0.0000	1.0603E+01	72.7	0.0793	1.7310E+01	0.0	581.0	238.2	1179.5	342.3
13	31	0.0000E+00	0.0	3.3898E-02	71.9	1.0169E-01	42.8	5.5137E-02	15.0	6.3566E+00	20.3	2.1671E+01	36.7	3.3898E-02	71.9	0.0000	0.0000	2.1671E+01	36.7	0.0339	7.1900E+01	0.0	290.8	76.8	-798.5	2039.3
14	308	0.0000E+00	0.0	5.4475E-02	27.4	2.9183E-01	13.1	1.8473E-02	6.6	8.9355E+00	6.6	4.9679E+01	25.1	5.4475E-02	27.4	0.0000	0.0000	4.9679E+01	25.1	0.0545	2.7440E+01	0.0	128.5	25.6	390.7	615.8
^{238}U																										
3	26	0.0000E+00	0.0	1.3889E-01	47.7	1.6667E-01	44.1	1.6449E-02	17.5	4.5509E+01	35.7	6.2428E+01	76.3	1.3889E-01	47.7	0.0000	0.0000	6.2428E+01	76.3	1.3889E-01	4.7730E+01	0.0	102.4	44.1	2213.4	827.8
4	40	0.0000E+00	0.0	8.5715E-02	42.5	8.5715E-02	42.5	2.4254E-02	12.8	1.6556E+01	19.1	4.5164E+01	31.6	8.5715E-02	42.5	0.0000	0.0000	4.5164E+01	31.6	8.5715E-02	4.2540E+01	0.0	141.2	33.6	1331.8	823.0
9	66	0.0000E+00	0.0	3.2877E-01	23.5	5.2055E-01	20.0	1.2543E-02	12.1	6.0513E+01	25.2	8.2281E+01	57.4	3.2877E-01	23.5	0.0000	0.0000	8.2281E+01	57.4	3.2877E-01	2.3530E+01	0.0	77.9	28.3	3611.4	360.8
12	36	0.0000E+00	0.0	2.0588E-01	41.5	3.2353E-01	34.7	1.5579E-02	17.9	1.0675E+01	17.9	3.5835E+01	94.5	2.0588E-01	41.5	0.0000	0.0000	3.5835E+01	94.5	2.0588E-01	4.1510E+01	0.0	177.4	85.6	2873.4	674.6
17	924	0.0000E+00	0.0	1.1695E-01	9.0	1.6102E-01	7.8	5.8768E-02	3.4	6.1065E+00	4.6	1.5574E+01	11.4	1.1695E-01	9.0	0.0000	0.0000	1.5574E+01	11.4	1.1695E-01	9.0000E+00	0.0	401.2	40.0	1910.1	161.6
23	138	0.0000E+00	0.0	5.8824E-02	36.4	1.9118E-01	21.4	1.9568E-02	9.1	9.8817E+00	9.7	4.9570E+01	43.4	5.8824E-02	36.4	0.0000	0.0000	4.9570E+01	43.4	5.8824E-02	3.6380E+01	0.0	128.8	38.7	560.6	792.9
^{206}Pb																										
3	55	0.0000E+00	0.0	7.1429E-02	31.2	1.2987E-01	23.8	3.6591E-02	8.9	7.4476E+00	11.0	2.5180E+01	90.8	7.1429E-02	31.2	0.0000	0.0000	2.5180E+01	90.8	7.1429E-02	3.1210E+01	0.0	251.1	118.3	969.7	636.8
6	200	0.0000E+00	0.0	6.0526E-02	21.5	1.0526E-01	16.6	4.3863E-02	5.8	8.2823E+00	8.0	2.6645E+01	22.2	6.0526E-02	21.5	0.0000	0.0000	2.6645E+01	22.2	6.0526E-02	2.1470E+01	0.0	237.5	42.5	622.4	463.1
9	26	0.0000E+00	0.0	1.7500E-01	41.0	3.7500E-01	30.3	2.1253E-02	16.8	1.1596E+01	20.1	4.4826E+01	76.9	1.7500E-01	41.0	0.0000	0.0000	4.4826E+01	76.9	1.7500E-01	4.0970E+01	0.0	142.2	61.5	2606.1	682.5

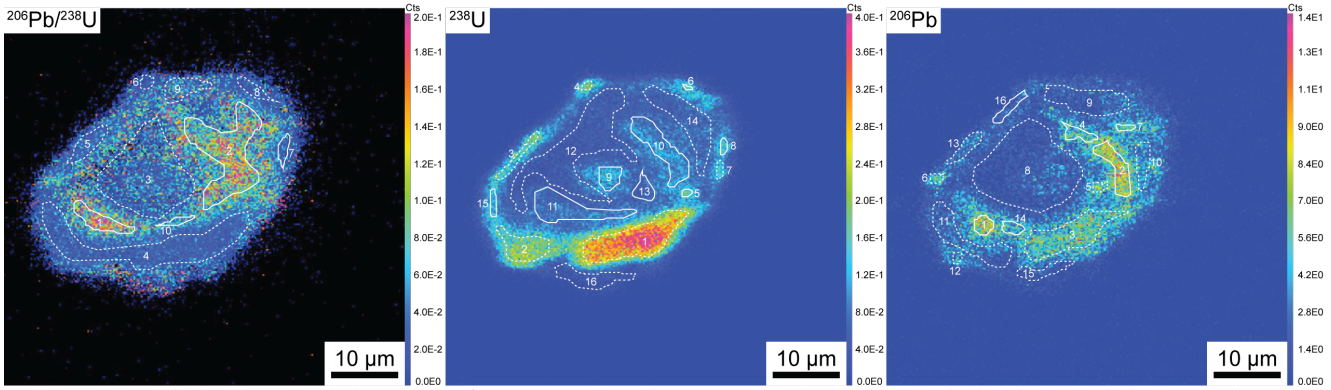
Area ID[1] corresponds to regions of interests (ROIs) used for calculation outlined in Figure above.

Measured ratios[2] are corrected fo detector gains. Uncertainties are counting statistic (Poisson) errors.

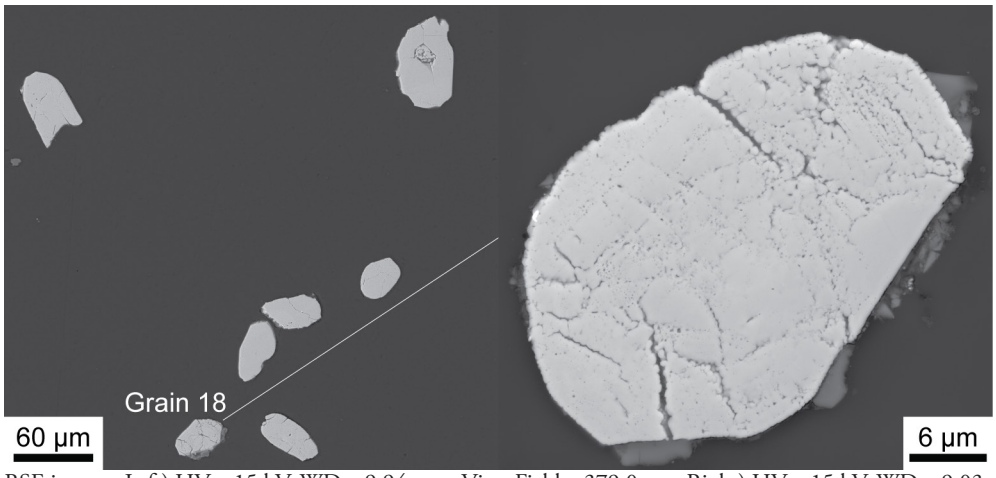
Corrected ratios[3] Values corrected for common Pb where ^{204}Pb exceeds detection limit.

^{206}Pb [%][4] Percentage of common Pb in measured ^{206}Pb, calculated from the ^{204}Pb assuming present-day Stacey & Kramers (1975) model terrestrial Pb isotope composition.

Ion image 61 grain 18



Ion imaging. Solid white lines mark the regions of interests (RIOs) where an age is calculated. Dotted white lines mark the ROIs where it was not possible to calculate an age due to common Pb content higher than 2%, and high uncertainty, i.e., absolute error higher than age value.



BSE images. Left) HV = 15 kV, WD = 9.94 mm, View Field = 379.0 µm. Right) HV = 15 kV, WD = 9.03 mm, View Field = 39.2 µm; close-up of the grain from the left image. Right image shows the grain after a further polishing to remove Au coating of the SIMS ion imaging and U-Pb spot analyses.

Area ID[1]	Area size [Pixel]	Measured ratios[2]										Uncorrected ratios						Corrected ratios[3]					Age [Ma]			
		$^{204}Pb/^{206}Pb$	±σ [%]	$^{207}Pb/^{206}Pb$	±σ [%]	$^{206}Pb/^{208}Pb$	±σ [%]	$^{206}Pb/^{238}U$	±σ [%]	$^{238}U/^{90}Zr$	±σ [%]	$^{238}U/^{206}Pb$	±σ [%]	$^{207}Pb/^{206}Pb$	±σ [%]	^{206}Pb	±σ [%]	$^{238}U/^{206}Pb$	±σ [%]	$^{207}Pb/^{206}Pb$	±σ [%]	^{206}Pb [%][4]	$^{238}U/^{206}Pb$	± 1σ	$^{207}Pb/^{206}Pb$	± 1σ
$^{206}Pb/^{238}U$																										
1	314	0.0000E+00	0.0	1.1222E-01	7.4	2.0111E-01	5.8	1.2983E-01	3.2	7.0749E+00	5.9	7.1028E+00	37.4	1.1222E-01	7.4	0.0000	0.0000	7.1028E+00	37.4	1.1222E-01	7.4	0.0	849.1	220.3	1835.7	134.4
2	1554	5.8403E-04	44.7	1.0583E-01	3.5	2.8092E-01	2.3	1.0734E-01	1.4	6.4252E+00	2.4	1.0545E+01	8.6	1.0583E-01	3.5	0.0109	0.0049	1.0430E+01	10.0	9.7768E-02	5.4	1.1	590.2	51.5	1582.0	100.4
7	98	0.0000E+00	0.0	1.1392E-01	24.9	3.9873E-01	14.9	2.4630E-02	8.5	2.1344E+01	14.5	4.8824E+01	25.3	1.1392E-01	24.9	0.0000	0.0000	4.8824E+01	25.3	1.1392E-01	24.9	0.0	130.7	26.2	1862.9	449.2
10	57	0.0000E+00	0.0	8.1632E-02	26.0	3.2143E-01	14.5	5.6500E-02	8.3	6.7098E+00	11.6	1.6930E+01	33.6	8.1632E-02	26.0	0.0000	0.0000	1.6930E+01	33.6	8.1632E-02	26.0	0.0	370.0	91.2	1236.7	509.8
^{238}U																										
5	26	0.0000E+00	0.0	1.0112E-01	24.7	2.5280E-01	16.7	7.2379E-02	9.0	1.4108E+01	19.2	1.6386E+01	38.6	1.0112E-01	24.7	0.0000	0.0000	1.6386E+01	38.6	1.0112E-01	24.7	0.0	381.9	104.0	1644.8	458.8
6	10	0.0000E+00	0.0	4.2858E-01	48.8	1.5714E+00	34.2	1.5020E-02	27.9	5.1686E+01	58.3	7.7382E+01	39.0	4.2858E-01	48.8	0.0000	0.0000	7.7382E+01	39.0	4.2858E-01	48.8	0.0	82.8	23.1	4012.5	729.0
8	35	0.0000E+00	0.0	1.2500E-01	37.5	1.8750E-01	31.5	2.4699E-02	13.4	1.9594E+01	21.9	5.9583E+01	44.2	1.2500E-01	37.5	0.0000	0.0000	5.9583E+01	44.2	1.2500E-01	37.5	0.0	107.3	32.7	2028.8	663.9
9	175	0.0000E+00	0.0	8.3336E-02	19.0	1.8611E-01	13.3	3.0881E-02	5.7	5.1032E+00	5.6	2.8065E+01	33.5	8.3336E-02	19.0	0.0000	0.0000	2.8065E+01	33.5	8.3336E-02	19.0	0.0	225.7	55.9	1277.1	370.4
10	611	2.5445E-04	100.0	9.9236E-02	5.3	3.0229E-01	3.3	1.1243E-01	2.1	6.7694E+00	3.7	9.6709E+00	13.0	9.9236E-02	5.3	0.0048	0.0048	9.6249E+00	13.7	9.5715E-02	6.7	0.5	637.2	73.7	1542.2	125.3
11	678	5.4495E-04	100.0	1.0572E-01	7.6	2.2398E-01	5.5	5.9279E-02	2.7	7.1621E+00	4.0	1.4077E+01	30.0	1.0572E-01	7.6	0.0102	0.0102	1.3934E+01	33.1	9.8207E-02	11.3	1.0	446.8	108.2	1590.3	211.8
13	146	0.0000E+00	0.0	1.0080E-01	17.0	2.6791E-01	11.2	8.0190E-02	6.3	4.3691E+00	8.3	1.4661E+01	14.9	1.0080E-01	17.0	0.0000	0.0000	1.4661E+01	14.9	1.0080E-01	17.0	0.0	425.4	53.6	1638.8	316.0
15	66	0.0000E+00	0.0	9.8214E-02	31.6	1.5179E-01	26.0	2.4005E-02	10.1	1.2320E+01	13.1	3.0561E+01	76.2	9.8214E-02	31.6	0.0000	0.0000	3.0561E+01	76.2	9.8214E-02	31.6	0.0	207.6	89.0	1590.5	590.4
^{206}Pb																										
1	119	0.0000E+00	0.0	1.0733E-01	10.5	1.8597E-01	8.2	1.3790E-01	4.4	7.9386E+00	8.9	6.0198E+00	44.8	1.0733E-01	10.5	0.0000	0.0000	6.0198E+00	44.8	1.0733E-01	10.5	0.0	990.7	290.4	1754.6	191.6
2	359	3.4940E-04	100.0	1.1181E-01	5.9	2.3515E-01	4.3	1.2554E-01	2.5	7.4802E+00	4.7	8.9614E+00	12.2	1.1181E-01	5.9	0.0065	0.0065	8.9028E+00	13.5	1.0705E-01	7.7	0.7	686.2	78.0	1749.7	140.2
4	121	0.0000E+00	0.0	1.1150E-01	13.2	4.0070E-01	7.8	8.5777E-02	5.1	6.9144E+00	8.4	1.1702E+01	25.3	1.1150E-01	13.2	0.0000	0.0000	1.1702E+01	25.3	1.1150E-01	13.2	0.0	528.6	103.2	1824.0	239.1
7	39	0.0000E+00	0.0	1.1905E-01	21.2	2.3334E-01	15.9	1.1526E-01	9.0	6.4481E+00	15.7	9.5079E+00	30.2	1.1905E-01	21.2	0.0000	0.0000	9.5079E+00	30.2	1.1905E-01	21.2	0.0	644.7	143.9	1942.0	378.4
14	95	0.0000E+00	0.0	1.2230E-01	14.8	2.6139E-01	10.8	1.0082E-01	6.2	5.5943E+00	9.8	9.0734E+00	55.4	1.2230E-01	14.8	0.0000	0.0000	9.0734E+00	55.4	1.2230E-01	14.8	0.0	674.0	232.3	1990.1	263.7
16	131	0.0000E+00	0.0	9.6774E-02	21.4	1.9355E-01	15.8	3.8479E-02	7.1	1.0830E+01	10.5	2.2748E+01	31.5	9.6774E-02	21.4	0.0000	0.0000	2.2748E+01	31.5	9.6774E-02	21.4	0.0	277.3	65.4	1562.9	400.9

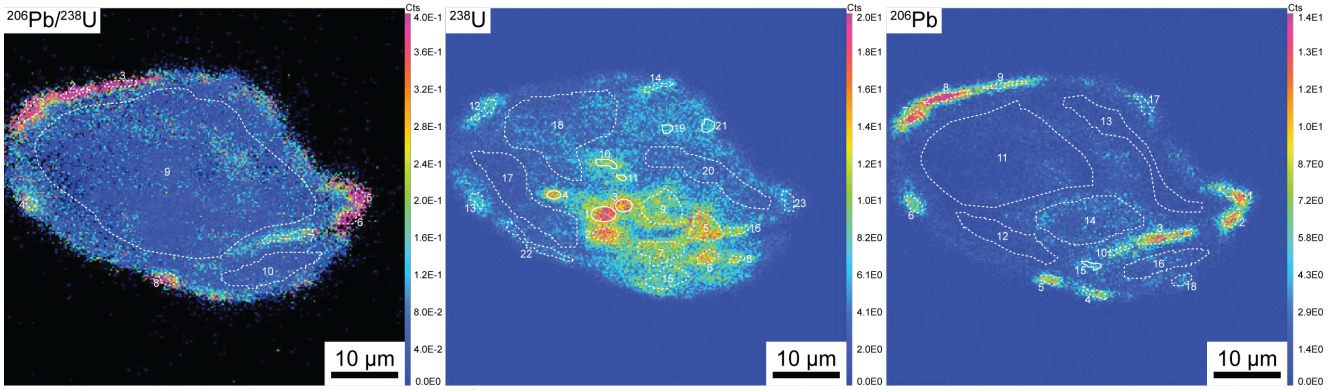
Area ID[1] corresponds to regions of interests (ROIs) used for calculation outlined in Figure above.

Measured ratios[2] are corrected fo detector gains. Uncertainties are counting statistic (Poisson) errors.

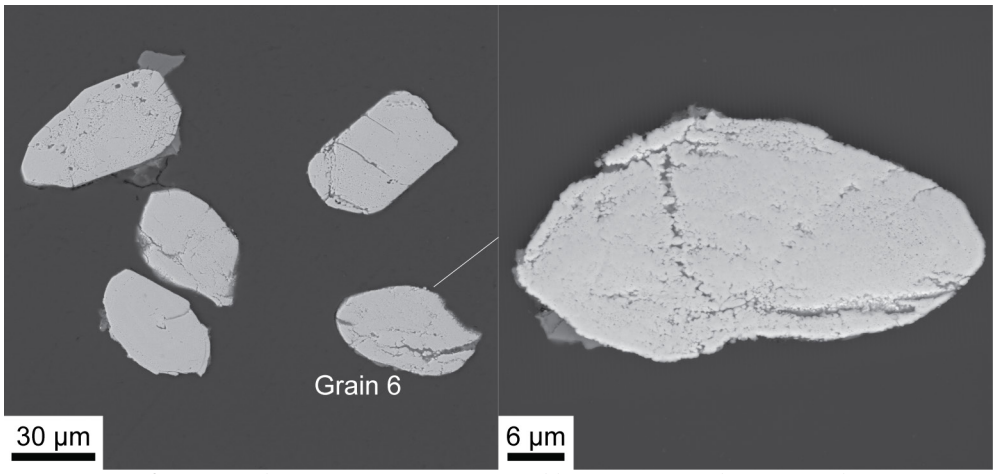
Corrected ratios[3] Values corrected for common Pb where ^{204}Pb exceeds detection limit.

^{206}Pb [%][4] Percentage of common Pb in measured ^{206}Pb, calculated from the ^{204}Pb assuming present-day Stacey & Kramers (1975) model terrestrial Pb isotope composition.

Ion image 62 grain 6



Ion imaging. Solid white lines mark the regions of interests (RIOs) where an age is calculated. Dotted white lines mark the ROIs where it was not possible to calculate an age due to common Pb content higher than 2%, and high uncertainty, i.e., absolute error higher than age value.



BSE images. Left) HV = 15 kV, WD = 9.94 mm, View Field = 179.0 µm. Right) HV = 15 kV, WD = 9.03 mm, View Field = 53.4 µm; close-up of the grain from the left image. Right image shows the grain after a further polishing to remove Au coating of the SIMS ion imaging and U-Pb spot analyses.

		Measured ratios[2]										Uncorrected ratios						Corrected ratios[3]				Age [Ma]			
Area ID[1]	Area size [Pix-el]	$^{204}Pb/^{206}Pb$	±σ [%]	$^{207}Pb/^{206}Pb$	±σ [%]	$^{206}Pb/^{208}Pb$	±σ [%]	$^{206}Pb/^{238}U$	±σ [%]	$^{238}U/^{90}Zr$	±σ [%]	$^{238}U/^{206}Pb$	±σ [%]	$^{207}Pb/^{206}Pb$	±σ [%]	^{206}Pb	±σ [%]	$^{238}U/^{206}Pb$	±σ [%]	$^{207}Pb/^{206}Pb$	±σ [%]	^{206}Pb [%][4]	$^{238}U/^{206}Pb$	± 1σ	$^{207}Pb/^{206}Pb$	± 1σ
^{238}U																										
1	**94**	**0.0000E+00**	**0.0**	**9.5093E-02**	**18.8**	**1.0246E+00**	**7.8**	**2.5205E-02**	**5.9**	**1.2884E+01**	**8.0**	**3.3559E+01**	**45.6**	**9.5093E-02**	**18.8**	**0.0000**	**0.0000**	**3.3559E+01**	**45.6**	**9.5093E-02**	**18.8**	**0.0**	**189.3**	**58.7**	**1529.9**	**354.0**
3	**43**	**0.0000E+00**	**0.0**	**5.9603E-02**	**34.3**	**7.2186E-01**	**12.6**	**2.5289E-02**	**8.7**	**1.1161E+01**	**11.1**	**3.9558E+01**	**43.7**	**5.9603E-02**	**34.3**	**0.0000**	**0.0000**	**3.9558E+01**	**43.7**	**5.9603E-02**	**34.3**	**0.0**	**160.9**	**48.6**	**589.2**	**744.2**
4	**20**	**0.0000E+00**	**0.0**	**3.3964E-01**	**27.3**	**1.3774E+00**	**18.0**	**1.8099E-02**	**14.5**	**1.4762E+01**	**18.0**	**4.6169E+01**	**86.6**	**3.3964E-01**	**27.3**	**0.0000**	**0.0000**	**4.6169E+01**	**86.6**	**3.3964E-01**	**27.3**	**0.0**	**138.1**	**63.7**	**3661.2**	**416.9**
10	**53**	**0.0000E+00**	**0.0**	**6.0241E-02**	**46.0**	**9.1567E-01**	**15.9**	**2.6550E-02**	**11.8**	**4.0950E+00**	**9.9**	**4.1009E+01**	**57.8**	**6.0241E-02**	**46.0**	**0.0000**	**0.0000**	**4.1009E+01**	**57.8**	**6.0241E-02**	**46.0**	**0.0**	**155.3**	**56.5**	**612.2**	**995.0**
11	**15**	**0.0000E+00**	**0.0**	**1.1765E-01**	**74.8**	**5.2942E-01**	**41.2**	**1.7136E-02**	**25.5**	**5.3236E+00**	**19.6**	**4.1293E+01**	**65.2**	**1.1765E-01**	**74.8**	**0.0000**	**0.0000**	**4.1293E+01**	**65.2**	**1.1765E-01**	**74.8**	**0.0**	**154.3**	**60.5**	**1920.8**	**1340.2**
19	**35**	**0.0000E+00**	**0.0**	**1.0526E-01**	**52.6**	**5.7897E-01**	**26.8**	**3.0243E-02**	**17.6**	**3.4263E+00**	**14.6**	**3.9580E+01**	**43.2**	**1.0526E-01**	**52.6**	**0.0000**	**0.0000**	**3.9580E+01**	**43.2**	**1.0526E-01**	**52.6**	**0.0**	**160.8**	**48.1**	**1718.9**	**966.1**
21	**56**	**0.0000E+00**	**0.0**	**4.0219E-01**	**19.5**	**1.7609E+00**	**13.1**	**4.2986E-02**	**11.7**	**5.8367E+00**	**13.9**	**2.5003E+01**	**21.7**	**4.0219E-01**	**19.5**	**0.0000**	**0.0000**	**2.5003E+01**	**21.7**	**4.0219E-01**	**19.5**	**0.0**	**252.8**	**44.3**	**3917.3**	**292.6**
^{206}Pb																										
15	**39**	**0.0000E+00**	**0.0**	**1.0448E-01**	**28.1**	**2.6866E-01**	**18.8**	**6.2782E-02**	**10.1**	**1.0145E+01**	**17.7**	**1.9030E+01**	**34.6**	**1.0448E-01**	**28.1**	**0.0000**	**0.0000**	**1.9030E+01**	**34.6**	**0.1**	**2.8090E+01**	**0.0**	**330.1**	**83.3**	**1705.1**	**517.1**

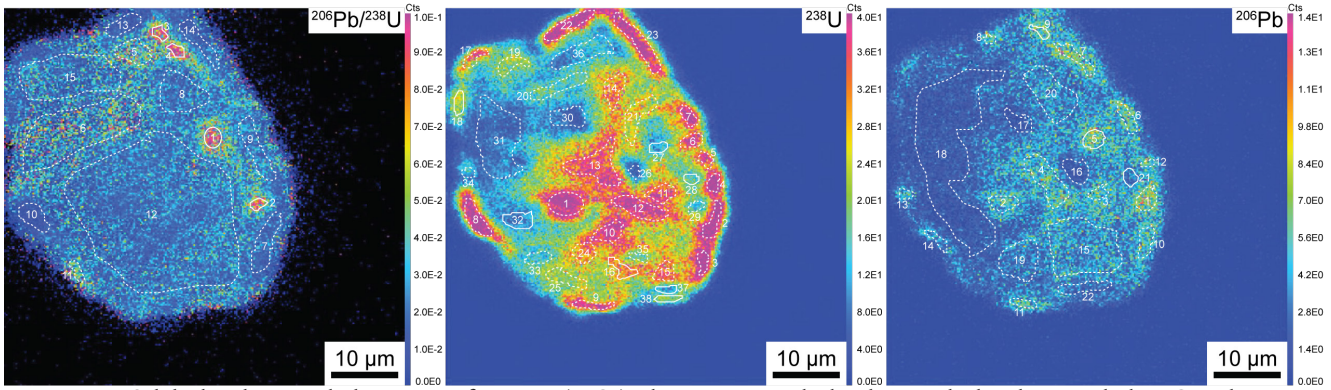
Area ID[1] corresponds to regions of interests (ROIs) used for calculation outlined in Figure above.

Measured ratios[2] are corrected fo detector gains. Uncertainties are counting statistic (Poisson) errors.

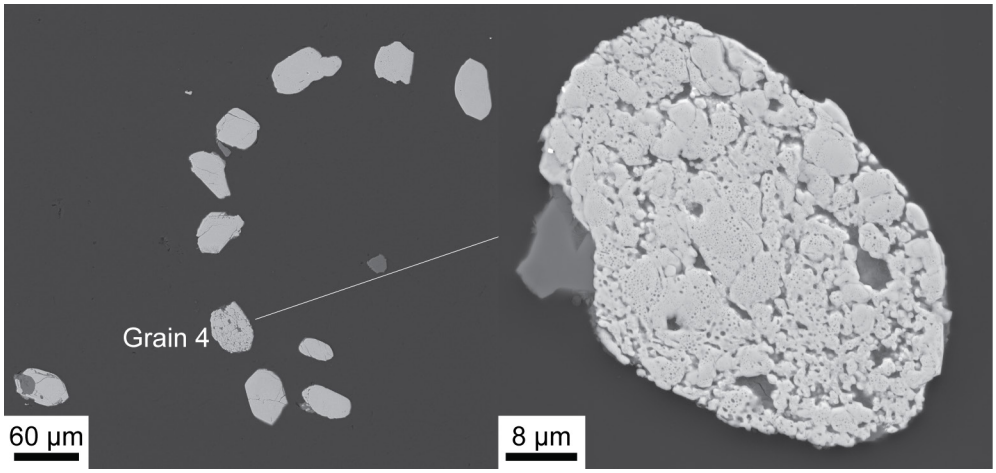
Corrected ratios[3] Values corrected for common Pb where ^{204}Pb exceeds detection limit.

^{206}Pb [%][4] Percentage of common Pb in measured ^{206}Pb, calculated from the ^{204}Pb assuming present-day Stacey & Kramers (1975) model terrestrial Pb isotope composition.

Ion image 64 grain 4



Ion imaging. Solid white lines mark the regions of interests (RIOs) where an age is calculated. Dotted white lines mark the ROIs where it was not possible to calculate an age due to common Pb content higher than 2%, and high uncertainty, i.e., absolute error higher than age value.



BSE images. Left) HV = 15 kV, WD = 9.94 mm, View Field = 462.0 µm. Right) HV = 15 kV, WD = 9.03 mm, View Field = 55.9 µm; close-up of the grain from the left image. Right image shows the grain after a further polishing to remove Au coating of the SIMS ion imaging and U-Pb spot analyses.

Area ID[1]	Area size [Pixel]	Measured ratios[2]								Uncorrected ratios								Corrected ratios[3]					Age [Ma]			
		$^{204}Pb/^{206}Pb$	±σ [%]	$^{207}Pb/^{206}Pb$	±σ [%]	$^{206}Pb/^{208}Pb$	±σ [%]	$^{206}Pb/^{238}U$	±σ [%]	$^{238}U/^{90}Zr$	±σ [%]	$^{238}U/^{206}Pb$	±σ [%]	$^{207}Pb/^{206}Pb$	±σ [%]	^{206}Pb	±σ [%]	$^{238}U/^{206}Pb$	±σ [%]	$^{207}Pb/^{206}Pb$	±σ [%]	^{206}Pb [%][4]	$^{238}U/^{206}Pb$	± 1σ	$^{207}Pb/^{206}Pb$	± 1σ
$^{206}Pb/^{238}U$																										
1	85	0.0000E+00	0.0	9.3749E-02	12.9	4.9715E-02	17.3	8.2635E-02	4.6	7.0158E+00	7.5	1.3413E+01	22.9	9.3749E-02	12.9	0.0000	0.0000	1.3413E+01	22.9	9.3749E-02	12.9	0.0	463.5	83.9	1503.1	243.2
2	58	0.0000E+00	0.0	8.8168E-02	16.9	8.3526E-02	17.4	8.6882E-02	5.9	8.2522E+00	10.6	1.3059E+01	32.8	8.8168E-02	16.9	0.0000	0.0000	1.3059E+01	32.8	8.8168E-02	16.9	0.0	475.6	114.2	1386.2	324.9
3	59	0.0000E+00	0.0	9.2697E-02	18.2	1.0674E-01	17.1	8.5688E-02	6.5	9.3398E+00	12.2	1.2232E+01	27.7	9.2697E-02	18.2	0.0000	0.0000	1.2232E+01	27.7	9.2697E-02	18.2	0.0	506.6	106.6	1481.7	345.0
4	61	0.0000E+00	0.0	8.7556E-02	16.9	8.7558E-02	16.9	1.0789E-01	6.2	8.0623E+00	11.6	9.7972E+00	27.3	8.7556E-02	16.9	0.0000	0.0000	9.7972E+00	27.3	8.7556E-02	16.9	0.0	626.5	129.5	1372.8	325.5
^{238}U																										
16	119	0.0000E+00	0.0	1.2128E-01	14.0	3.0638E-01	9.5	2.0838E-02	4.9	2.0503E+01	7.6	4.5156E+01	22.0	1.2128E-01	14.0	0.0000	0.0000	4.5156E+01	22.0	1.2128E-01	14.0	0.0	141.2	25.2	1975.1	250.0
18	84	0.0000E+00	0.0	1.3889E-01	21.3	3.4445E-01	14.7	1.5812E-02	7.8	4.0289E+01	14.8	5.5704E+01	75.4	1.3889E-01	21.3	0.0000	0.0000	5.5704E+01	75.4	1.3889E-01	21.3	0.0	114.7	49.1	2213.4	370.1
27	67	0.0000E+00	0.0	9.5360E-02	17.2	4.6391E-02	24.1	7.9082E-02	6.2	8.2440E+00	10.6	1.2778E+01	27.8	9.5360E-02	17.2	0.0000	0.0000	1.2778E+01	27.8	9.5360E-02	17.2	0.0	485.7	102.7	1535.2	323.9
28	56	0.0000E+00	0.0	9.4937E-02	27.0	1.3291E-01	23.2	2.9759E-02	8.6	9.3958E+00	10.9	4.1524E+01	25.7	9.4937E-02	27.0	0.0000	0.0000	4.1524E+01	25.7	9.4937E-02	27.0	0.0	153.4	31.0	1526.8	509.0
32	175	0.0000E+00	0.0	8.1396E-02	27.8	2.2093E-01	17.9	1.8004E-02	8.0	2.1771E+01	12.0	5.2754E+01	44.8	8.1396E-02	27.8	0.0000	0.0000	5.2754E+01	44.8	8.1396E-02	27.8	0.0	121.1	37.2	1231.0	545.4
37	51	0.0000E+00	0.0	1.8682E-01	26.4	3.0770E-01	21.6	2.5565E-02	11.3	1.9738E+01	18.7	4.4084E+01	27.3	1.8682E-01	26.4	0.0000	0.0000	4.4084E+01	27.3	1.8682E-01	26.4	0.0	144.6	30.7	2714.3	435.6
38	59	0.0000E+00	0.0	6.3291E-02	32.6	2.9747E-01	16.6	2.2061E-02	8.5	1.9857E+01	13.2	4.8402E+01	22.3	6.3291E-02	32.6	0.0000	0.0000	4.8402E+01	22.3	6.3291E-02	32.6	0.0	131.8	23.8	718.0	692.4
^{206}Pb																										
5	126	0.0000E+00	0.0	9.2009E-02	12.0	4.8426E-02	16.2	7.9273E-02	4.2	7.9872E+00	7.2	1.3042E+01	20.3	9.2009E-02	12.0	0.0000	0.0000	1.3042E+01	20.3	9.2009E-02	12.0	0.0	476.3	77.9	1467.6	227.7
9	55	0.0000E+00	0.0	1.0029E-01	18.0	1.1209E-01	17.1	7.8638E-02	6.6	9.1941E+00	11.9	1.1677E+01	38.8	1.0029E-01	18.0	0.0000	0.0000	1.1677E+01	38.8	1.0029E-01	18.0	0.0	529.7	143.9	1629.6	334.4
21	80	0.0000E+00	0.0	7.2581E-02	24.4	1.3710E-01	18.3	3.0371E-02	6.9	1.0369E+01	9.1	4.2196E+01	20.6	7.2581E-02	24.4	0.0000	0.0000	4.2196E+01	20.6	7.2581E-02	24.4	0.0	151.0	25.5	1002.3	495.6

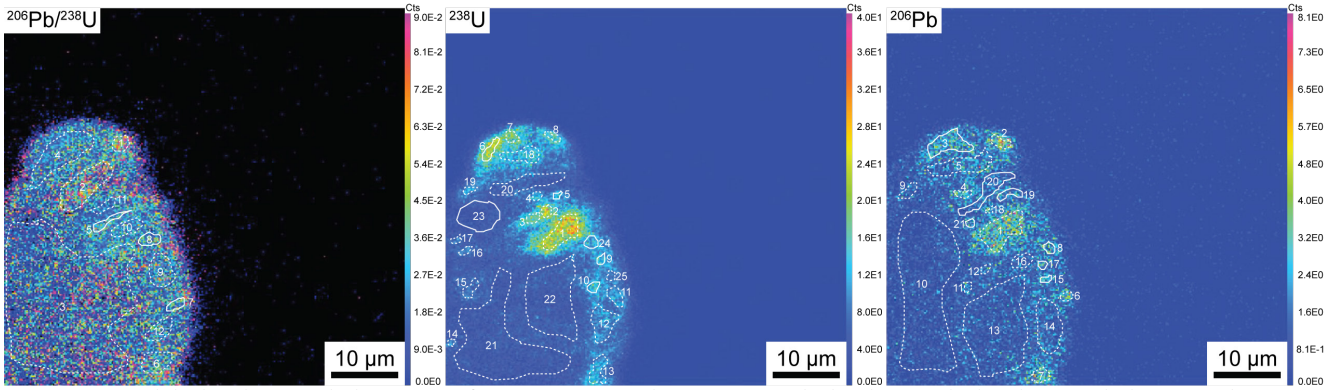
Area ID[1] corresponds to regions of interests (ROIs) used for calculation outlined in Figure above.

Measured ratios[2] are corrected fo detector gains. Uncertainties are counting statistic (Poisson) errors.

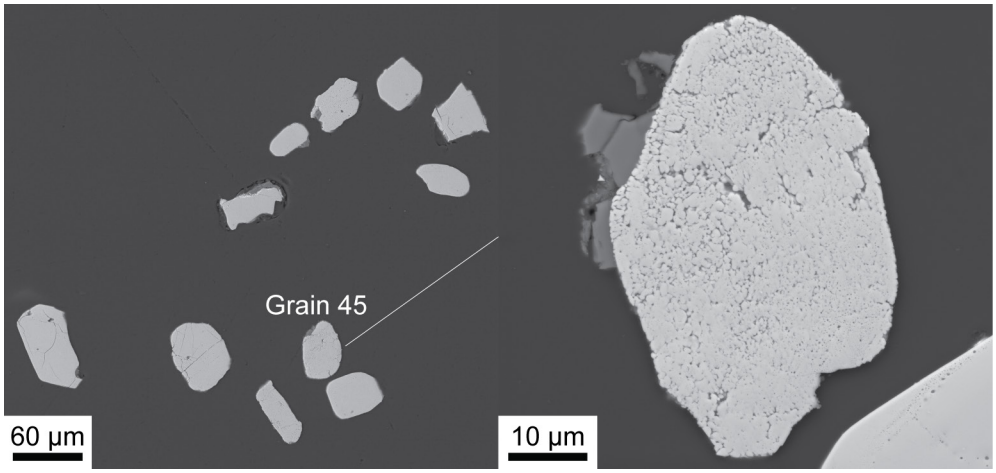
Corrected ratios[3] Values corrected for common Pb where ^{204}Pb exceeds detection limit.

^{206}Pb [%][4] Percentage of common Pb in measured ^{206}Pb, calculated from the ^{204}Pb assuming present-day Stacey & Kramers (1975) model terrestrial Pb isotope composition.

Ion image 65 grain 45



Ion imaging. Solid white lines mark the regions of interests (RIOs) where an age is calculated. Dotted white lines mark the ROIs where it was not possible to calculate an age due to common Pb content higher than 2%, and high uncertainty, i.e., absolute error higher than age value.



BSE images. Left) HV = 15 kV, WD = 9.94 mm, View Field = 427.0 µm. Right) HV = 15 kV, WD = 9.04 mm, View Field = 63.2 µm; close-up of the grain from the left image. Right image shows the grain after a further polishing to remove Au coating of the SIMS ion imaging and U-Pb spot analyses.

		Measured ratios[2]										Uncorrected ratios						Corrected ratios[3]				Age [Ma]			
Area ID[1]	Area size [Pixel]	$^{204}Pb/^{206}Pb$	±σ [%]	$^{207}Pb/^{206}Pb$	±σ [%]	$^{206}Pb/^{208}Pb$	±σ [%]	$^{206}Pb/^{238}U$	±σ [%]	$^{238}U/^{90}Zr$	±σ [%]	$^{238}U/^{206}Pb$	±σ [%]	$^{207}Pb/^{206}Pb$	±σ [%]	^{206}Pb	±σ [%]	$^{238}U/^{206}Pb$	±σ [%]	$^{207}Pb/^{206}Pb$	±σ [%]	^{206}Pb [%][4]	$^{238}U/^{206}Pb$	± 1σ	$^{207}Pb/^{206}Pb$	± 1σ
$^{206}Pb/^{238}U$																										
5	74	0.0000E+00	0.0	1.1735E-01	22.0	1.1224E-01	22.5	3.0072E-02	7.8	8.6052E+00	9.4	3.3110E+01	62.4	1.1735E-01	22.0	0.0000	0.0000	3.3110E+01	62.4	1.1735E-01	22.0	0.0	191.8	73.0	1916.2	395.4
7	59	0.0000E+00	0.0	2.2619E-01	25.4	5.4762E-01	18.3	2.8749E-02	11.8	5.6520E+00	11.7	3.1950E+01	47.0	2.2619E-01	25.4	0.0000	0.0000	3.1950E+01	47.0	2.2619E-01	25.4	0.0	198.7	62.9	3025.3	407.4
8	88	0.0000E+00	0.0	8.0248E-02	28.8	1.6050E-01	21.1	2.8305E-02	8.5	6.7047E+00	9.0	3.2853E+01	34.0	8.0248E-02	28.8	0.0000	0.0000	3.2853E+01	34.0	8.0248E-02	28.8	0.0	193.3	48.5	1203.1	568.1
^{238}U																										
5	21	0.0000E+00	0.0	1.2195E-01	47.4	7.3172E-02	59.8	2.8178E-02	16.9	7.1191E+00	18.3	2.8133E+01	97.8	1.2195E-01	47.4	0.0000	0.0000	2.8133E+01	97.8	1.2195E-01	47.4	0.0	225.2	110.3	1985.0	842.9
6	74	0.0000E+00	0.0	1.6848E-01	19.4	3.5870E-01	14.4	1.9378E-02	7.8	1.7950E+01	10.9	4.5265E+01	74.9	1.6848E-01	19.4	0.0000	0.0000	4.5265E+01	74.9	1.6848E-01	19.4	0.0	140.9	60.0	2542.6	325.4
9	28	0.0000E+00	0.0	5.7692E-02	59.4	1.1538E-01	43.1	2.5363E-02	14.9	7.7516E+00	16.0	4.4517E+01	53.1	5.7692E-02	59.4	0.0000	0.0000	4.4517E+01	53.1	5.7692E-02	59.4	0.0	143.2	49.3	518.1	1303.6
10	43	0.0000E+00	0.0	2.0000E-01	33.0	3.4546E-01	26.6	1.7763E-02	14.2	8.0481E+00	13.3	5.8775E+01	44.6	2.0000E-01	33.0	0.0000	0.0000	5.8775E+01	44.6	2.0000E-01	33.0	0.0	108.8	33.3	2826.2	539.1
23	419	0.0000E+00	0.0	1.0551E-01	21.9	2.2936E-01	15.7	2.2594E-02	7.2	3.2892E+00	5.2	4.3910E+01	45.9	1.0551E-01	21.9	0.0000	0.0000	4.3910E+01	45.9	1.0551E-01	21.9	0.0	145.2	45.3	1723.1	402.6
24	55	0.0000E+00	0.0	8.5107E-02	36.8	1.3830E-01	29.6	2.6189E-02	11.1	6.2846E+00	11.1	3.6718E+01	40.7	8.5107E-02	36.8	0.0000	0.0000	3.6718E+01	40.7	8.5107E-02	36.8	0.0	173.2	49.6	1318.0	713.9
^{206}Pb																										
3	285	0.0000E+00	0.0	1.2672E-01	11.6	1.8015E-01	10.0	2.1974E-02	4.2	1.5842E+01	5.8	4.1348E+01	47.2	1.2672E-01	11.6	0.0000	0.0000	4.1348E+01	47.2	1.2672E-01	11.6	0.0	154.1	49.0	2052.9	205.7
8	39	0.0000E+00	0.0	5.6180E-02	46.0	1.4607E-01	29.7	3.8055E-02	11.8	8.8412E+00	15.9	2.5476E+01	44.0	5.6180E-02	46.0	0.0000	0.0000	2.5476E+01	44.0	5.6180E-02	46.0	0.0	248.2	74.8	459.5	1019.2
15	26	0.0000E+00	0.0	5.0848E-02	59.2	6.7797E-02	51.7	3.7031E-02	14.4	8.5500E+00	19.0	2.2879E+01	59.6	5.0848E-02	59.2	0.0000	0.0000	2.2879E+01	59.6	5.0848E-02	59.2	0.0	275.8	101.6	233.9	1365.8
17	27	0.0000E+00	0.0	1.0417E-01	47.0	1.6667E-01	38.2	2.9567E-02	15.7	5.4009E+00	15.4	3.1075E+01	41.2	1.0417E-01	47.0	0.0000	0.0000	3.1075E+01	41.2	1.0417E-01	47.0	0.0	204.2	59.0	1699.6	865.7
19	69	0.0000E+00	0.0	8.6957E-02	30.1	7.2464E-02	32.8	3.7751E-02	9.4	5.5788E+00	10.4	2.1085E+01	37.7	8.6957E-02	30.1	0.0000	0.0000	2.1085E+01	37.7	8.6957E-02	30.1	0.0	298.7	80.5	1359.5	580.1
20	250	0.0000E+00	0.0	1.7906E-01	14.9	2.7365E-01	12.5	3.1261E-02	6.3	4.6055E+00	6.0	4.0192E+01	47.5	1.7906E-01	14.9	0.0000	0.0000	4.0192E+01	47.5	1.7906E-01	14.9	0.0	158.4	50.6	2644.1	247.6
21	23	0.0000E+00	0.0	1.4706E-01	47.9	2.3530E-01	39.3	1.6296E-02	18.0	9.6410E+00	17.5	5.3209E+01	97.9	1.4706E-01	47.9	0.0000	0.0000	5.3209E+01	97.9	1.4706E-01	47.9	0.0	120.0	59.1	2312.0	822.0

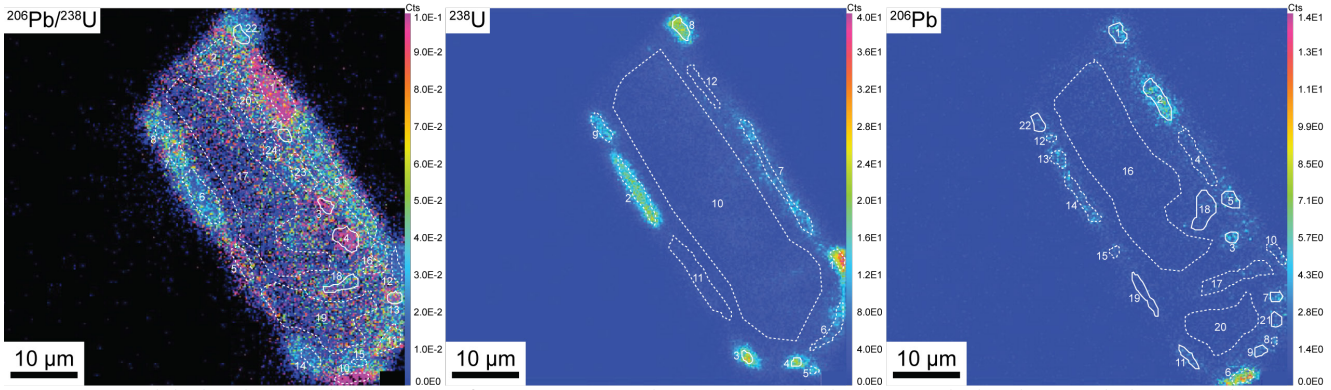
Area ID[1] corresponds to regions of interests (ROIs) used for calculation outlined in Figure above.

Measured ratios[2] are corrected fo detector gains. Uncertainties are counting statistic (Poisson) errors.

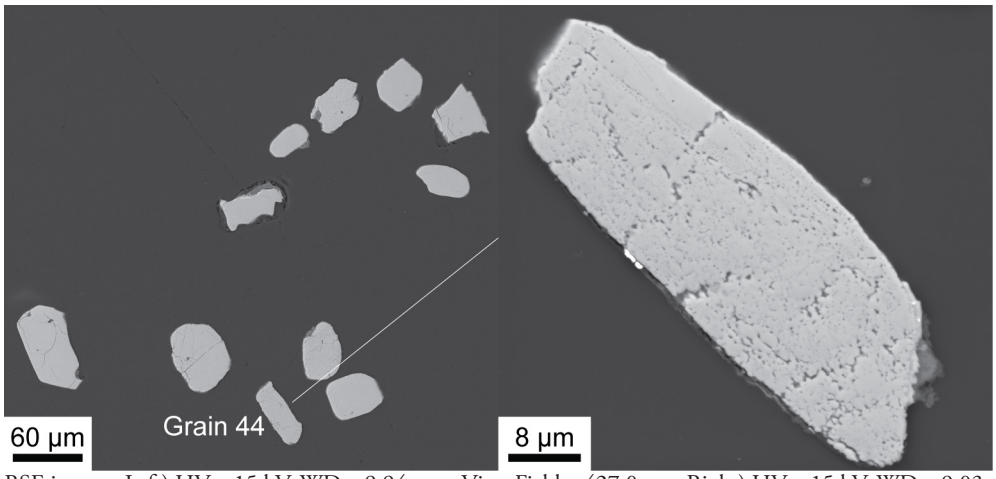
Corrected ratios[3] Values corrected for common Pb where ^{204}Pb exceeds detection limit.

^{206}Pb [%][4] Percentage of common Pb in measured ^{206}Pb, calculated from the ^{204}Pb assuming present-day Stacey & Kramers (1975) model terrestrial Pb isotope composition.

Ion image 66 grain 44



Ion imaging. Solid white lines mark the regions of interests (RIOs) where an age is calculated. Dotted white lines mark the ROIs where it was not possible to calculate an age due to common Pb content higher than 2%, and high uncertainty, i.e., absolute error higher than age value.



BSE images. Left) HV = 15 kV, WD = 9.94 mm, View Field = 427.0 µm. Right) HV = 15 kV, WD = 9.03 mm, View Field = 55.2 µm; close-up of the grain from the left image. Right image shows the grain after a further polishing to remove Au coating of the SIMS ion imaging and U-Pb spot analyses.

		Measured ratios[2]										Uncorrected ratios						Corrected ratios[3]					Age [Ma]			
Area ID[1]	Area size [Pixel]	$^{204}Pb/^{206}Pb$	±σ [%]	$^{207}Pb/^{206}Pb$	±σ [%]	$^{206}Pb/^{208}Pb$	±σ [%]	$^{206}Pb/^{238}U$	±σ [%]	$^{238}U/^{90}Zr$	±σ [%]	$^{238}U/^{206}Pb$	±σ [%]	$^{207}Pb/^{206}Pb$	±σ [%]	^{206}Pb	±σ [%]	$^{238}U/^{206}Pb$	±σ [%]	$^{207}Pb/^{206}Pb$	±σ [%]	^{206}Pb [%][4]	$^{238}U/^{206}Pb$	± 1σ	$^{207}Pb/^{206}Pb$	± 1σ
$^{206}Pb/^{238}U$																										
3	55	0.0000E+00	0.0	1.5476E-01	29.8	9.5239E-02	37.0	1.2150E-01	14.4	1.1059E+00	13.5	1.0421E+01	27.6	1.5476E-01	29.8	0.0000	0.0000	1.0421E+01	27.6	1.5476E-01	29.8	0.0	590.7	123.4	2399.2	506.8
4	176	0.0000E+00	0.0	1.1865E-01	16.3	1.9209E-01	13.2	1.5022E-01	7.3	1.4519E+00	7.9	8.0432E+00	11.8	1.1865E-01	16.3	0.0000	0.0000	8.0432E+00	11.8	1.1865E-01	16.3	0.0	755.4	75.5	1935.9	292.1
13	64	0.0000E+00	0.0	1.9375E-01	19.6	3.8751E-01	15.0	7.1159E-02	9.4	4.0218E+00	11.6	1.2418E+01	22.1	1.9375E-01	19.6	0.0000	0.0000	1.2418E+01	22.1	1.9375E-01	19.6	0.0	499.3	87.4	2774.3	321.7
18	123	0.0000E+00	0.0	2.1101E-01	23.0	5.8716E-01	15.8	3.7776E-02	10.6	2.4871E+00	8.5	2.8166E+01	21.3	2.1101E-01	23.0	0.0000	0.0000	2.8166E+01	21.3	2.1101E-01	23.0	0.0	224.9	38.9	2913.3	371.7
21	59	0.0000E+00	0.0	2.0270E-01	28.3	2.8378E-01	24.7	5.0244E-02	13.3	2.4749E+00	11.9	2.0199E+01	26.3	2.0270E-01	28.3	0.0000	0.0000	2.0199E+01	26.3	2.0270E-01	28.3	0.0	311.5	63.6	2848.1	461.3
22	81	0.0000E+00	0.0	9.7169E-02	21.4	9.3118E-02	21.8	2.6484E-02	6.8	1.9394E+01	11.5	4.5996E+01	17.0	9.7169E-02	21.4	0.0000	0.0000	4.5996E+01	17.0	9.7169E-02	21.4	0.0	138.6	20.0	1570.5	400.5
^{238}U																										
3	42	0.0000E+00	0.0	7.1438E-02	42.3	3.3334E-01	21.8	1.6609E-02	11.4	3.0048E+01	19.2	7.0651E+01	32.6	7.1438E-02	42.3	0.0000	0.0000	7.0651E+01	32.6	7.1438E-02	42.3	0.0	90.6	22.2	970.0	862.2
4	26	0.0000E+00	0.0	2.6230E-01	28.1	6.2296E-01	20.7	2.1402E-02	13.6	1.4368E+01	18.0	5.4278E+01	48.7	2.6230E-01	28.1	0.0000	0.0000	5.4278E+01	48.7	2.6230E-01	28.1	0.0	117.7	38.3	3260.6	442.1
8	96	0.0000E+00	0.0	1.0070E-01	19.5	1.0417E-01	19.2	2.6447E-02	6.3	2.1065E+01	11.0	4.4195E+01	18.6	1.0070E-01	19.5	0.0000	0.0000	4.4195E+01	18.6	1.0070E-01	19.5	0.0	144.2	22.4	1637.0	361.7
^{206}Pb																										
1	104	0.0000E+00	0.0	1.0443E-01	18.3	7.2785E-02	21.6	3.0661E-02	6.1	1.4169E+01	9.4	3.8150E+01	17.5	1.0443E-01	18.3	0.0000	0.0000	3.8150E+01	17.5	1.0443E-01	18.3	0.0	166.8	24.6	1704.3	336.7
2	220	0.0000E+00	0.0	1.0799E-01	10.7	2.5872E-02	21.1	1.4205E-01	4.6	3.2232E+00	6.4	8.2058E+00	12.3	1.0799E-01	10.7	0.0000	0.0000	8.2058E+00	12.3	1.0799E-01	10.7	0.0	741.3	77.3	1765.7	196.2
3	47	0.0000E+00	0.0	1.1613E-01	24.9	1.6774E-01	21.2	1.9834E-01	11.9	1.2264E+00	13.1	6.2334E+00	30.6	1.1613E-01	24.9	0.0000	0.0000	6.2334E+00	30.6	1.1613E-01	24.9	0.0	959.1	212.4	1897.5	447.7
5	98	0.0000E+00	0.0	1.1489E-01	20.3	3.4043E-02	36.0	4.6150E-02	7.4	4.8683E+00	8.3	2.3719E+01	33.8	1.1489E-01	20.3	0.0000	0.0000	2.3719E+01	33.8	1.1489E-01	20.3	0.0	266.2	66.2	1878.2	366.2
7	43	0.0000E+00	0.0	2.0635E-01	21.5	4.4444E-01	16.1	6.2371E-02	10.4	6.5896E+00	15.0	1.7967E+01	36.3	2.0635E-01	21.5	0.0000	0.0000	1.7967E+01	36.3	2.0635E-01	21.5	0.0	349.2	91.2	2877.1	350.0
9	40	0.0000E+00	0.0	1.6304E-01	27.9	1.5217E-01	28.7	6.6529E-02	12.3	3.5945E+00	14.1	1.9135E+01	38.1	1.6304E-01	27.9	0.0000	0.0000	1.9135E+01	38.1	1.6304E-01	27.9	0.0	328.4	88.9	2487.5	469.4
11	70	0.0000E+00	0.0	1.1853E-01	26.4	3.2593E-01	17.4	1.8524E-02	9.1	2.4248E+01	14.4	6.6690E+01	17.8	1.1853E-01	26.4	0.0000	0.0000	6.6690E+01	17.8	1.1853E-01	26.4	0.0	95.9	14.4	1934.1	473.3
18	252	0.0000E+00	0.0	8.5045E-02	19.3	1.2903E-01	16.0	8.4664E-02	6.7	1.4471E+00	6.0	1.3482E+01	16.9	8.5045E-02	19.3	0.0000	0.0000	1.3482E+01	16.9	8.5045E-02	19.3	0.0	461.2	64.7	1316.6	375.0
19	145	0.0000E+00	0.0	2.0721E-01	22.9	5.1352E-01	16.3	4.7714E-02	10.8	3.4864E+00	10.8	2.2589E+01	17.5	2.0721E-01	22.9	0.0000	0.0000	2.2589E+01	17.5	2.0721E-01	22.9	0.0	279.2	40.9	2883.8	372.0
21	57	0.0000E+00	0.0	7.0707E-02	39.1	1.2121E-01	30.6	2.9563E-02	10.9	7.3298E+00	12.2	3.5798E+01	26.8	7.0707E-02	39.1	0.0000	0.0000	3.5798E+01	26.8	7.0707E-02	39.1	0.0	177.6	37.1	949.0	800.5
22	72	0.0000E+00	0.0	1.0891E-01	31.8	3.7624E-01	19.0	2.3828E-02	10.6	1.3823E+01	14.5	4.0049E+01	37.5	1.0891E-01	31.8	0.0000	0.0000	4.0049E+01	37.5	1.0891E-01	31.8	0.0	159.0	43.0	1781.3	579.0

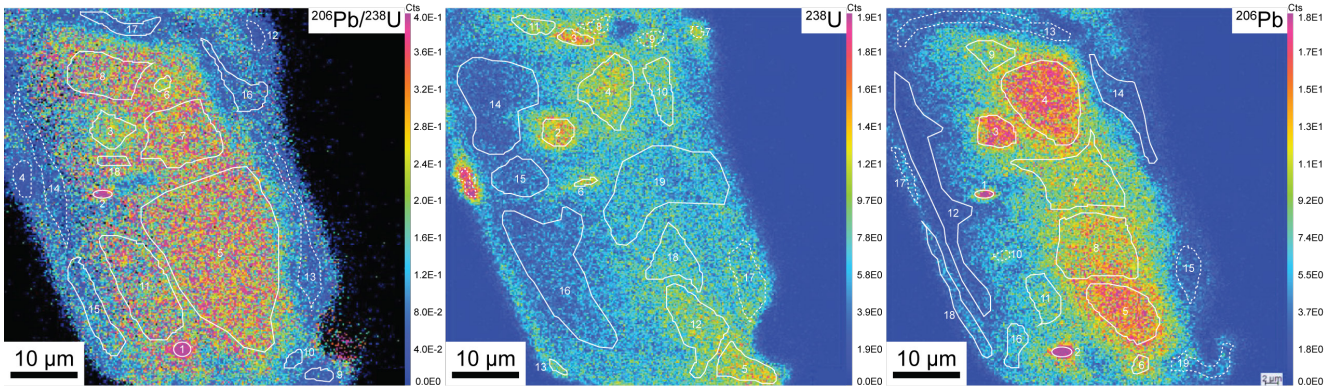
Area ID[1] corresponds to regions of interests (ROIs) used for calculation outlined in Figure above.

Measured ratios[2] are corrected fo detector gains. Uncertainties are counting statistic (Poisson) errors.

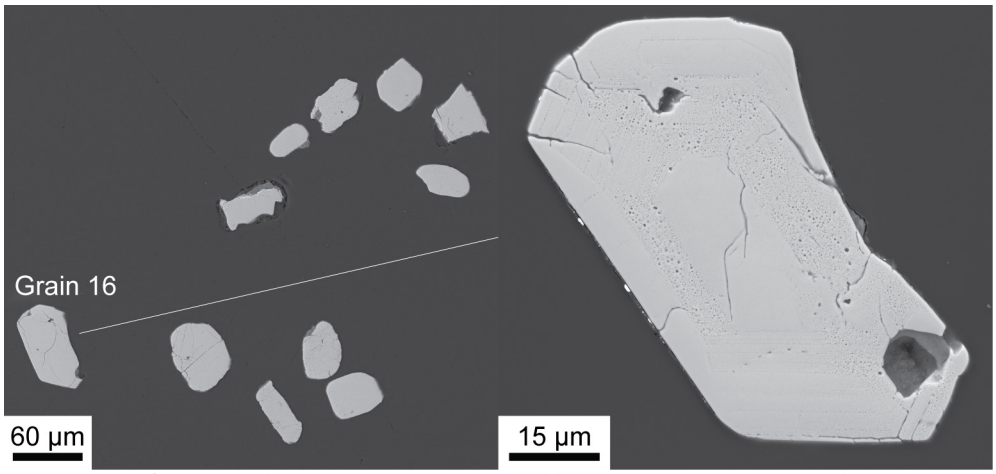
Corrected ratios[3] Values corrected for common Pb where ^{204}Pb exceeds detection limit.

^{206}Pb [%][4] Percentage of common Pb in measured ^{206}Pb, calculated from the ^{204}Pb assuming present-day Stacey & Kramers (1975) model terrestrial Pb isotope composition.

Ion image 67 grain 16



Ion imaging. Solid white lines mark the regions of interests (RIOs) where an age is calculated. Dotted white lines mark the ROIs where it was not possible to calculate an age due to common Pb content higher than 2%, and high uncertainty, i.e., absolute error higher than age value.



BSE images. Left) HV = 15 kV, WD = 9.94 mm, View Field = 427.0 µm. Right) HV = 15 kV, WD = 9.04 mm, View Field = 83.0 µm; close-up of the grain from the left image. Right image shows the grain after a further polishing to remove Au coating of the SIMS ion imaging and U-Pb spot analyses.

Area ID[1]	Area size [Pixel]	Measured ratios[2]						Uncorrected ratios										Corrected ratios[3]					Age [Ma]			
		$^{204}Pb/^{206}Pb$	±σ [%]	$^{207}Pb/^{206}Pb$	±σ [%]	$^{206}Pb/^{208}Pb$	±σ [%]	$^{206}Pb/^{238}U$	±σ [%]	$^{238}U/^{90}Zr$	±σ [%]	$^{238}U/^{206}Pb$	±σ [%]	$^{207}Pb/^{206}Pb$	±σ [%]	^{206}Pb	±σ [%]	$^{238}U/^{206}Pb$	±σ [%]	$^{207}Pb/^{206}Pb$	±σ [%]	^{206}Pb [%][4]	$^{238}U/^{206}Pb$	± 1σ	$^{207}Pb/^{206}Pb$	± 1σ
$^{206}Pb/^{238}U$																										
1	52	0.0000E+00	0.0	1.1209E-01	6.3	1.5539E-01	5.5	9.6496E-01	5.3	6.1744E+00	13.0	1.1786E+00	27.9	1.1209E-01	6.3	0.0000	0.0000	1.1786E+00	27.9	1.1209E-01	6.3	0.0	3960.4	680.1	1833.6	114.9
2	32	0.0000E+00	0.0	9.3385E-02	11.1	7.9744E-02	11.9	5.4109E-01	6.7	5.5285E+00	14.9	1.7033E+00	99.1	9.3385E-02	11.1	0.0000	0.0000	1.7033E+00	99.1	9.3385E-02	11.1	0.0	2977.7	1311.6	1495.7	209.6
3	455	0.0000E+00	0.0	9.4053E-02	4.2	1.5906E-01	3.3	2.0744E-01	1.8	5.9342E+00	3.6	4.3568E+00	33.3	9.4053E-02	4.2	0.0000	0.0000	4.3568E+00	33.3	9.4053E-02	4.2	0.0	1332.0	308.0	1509.2	78.9
5	7441	2.2649E-04	22.9	9.3030E-02	1.2	1.3306E-01	1.0	2.7847E-01	0.6	4.3463E+00	1.0	3.8518E+00	8.5	9.3030E-02	1.2	0.0042	0.0010	3.8355E+00	8.5	8.9871E-02	1.5	0.4	1493.5	105.3	1422.8	28.1
6	79	0.0000E+00	0.0	8.3733E-02	10.2	1.2399E-01	8.5	2.2429E-01	4.3	7.3110E+00	9.5	4.7212E+00	19.0	8.3733E-02	10.2	0.0000	0.0000	4.7212E+00	19.0	8.3733E-02	10.2	0.0	1238.5	182.3	1286.4	198.8
7	1697	0.0000E+00	0.0	9.0987E-02	2.4	1.3969E-01	2.0	2.7649E-01	1.1	4.5781E+00	2.1	3.6632E+00	17.7	9.0987E-02	2.4	0.0000	0.0000	3.6632E+00	17.7	9.0987E-02	2.4	0.0	1555.9	211.5	1446.3	46.1
8	1238	0.0000E+00	0.0	8.8358E-02	3.2	1.4114E-01	2.6	2.6424E-01	1.5	4.6288E+00	2.7	3.4080E+00	18.1	8.8358E-02	3.2	0.0000	0.0000	3.4080E+00	18.1	8.8358E-02	3.2	0.0	1658.6	228.5	1390.3	61.2
9	124	0.0000E+00	0.0	7.6062E-02	17.8	9.1722E-02	16.3	5.1307E-02	5.4	1.1323E+01	9.2	2.0197E+01	16.3	7.6062E-02	17.8	0.0000	0.0000	2.0197E+01	16.3	7.6062E-02	17.8	0.0	311.5	42.7	1096.7	356.1
10	95	0.0000E+00	0.0	7.7894E-02	17.1	1.6210E-01	12.3	7.9003E-02	5.6	6.7127E+00	8.8	1.4523E+01	12.2	7.7894E-02	17.1	0.0000	0.0000	1.4523E+01	12.2	7.7894E-02	17.1	0.0	429.3	45.2	1144.2	339.3
11	2116	1.5176E-04	70.7	9.2047E-02	3.0	1.3295E-01	2.5	2.3430E-01	1.4	4.3865E+00	2.4	3.7881E+00	20.7	9.2047E-02	3.0	0.0028	0.0020	3.7773E+00	20.6	8.9930E-02	3.5	0.3	1514.0	234.8	1424.0	67.0
15	861	6.4808E-04	70.7	1.0175E-01	5.9	1.2508E-01	5.4	1.1096E-01	2.3	6.6471E+00	4.1	7.4775E+00	26.6	1.0175E-01	5.9	0.0121	0.0086	7.3869E+00	27.1	9.2745E-02	9.6	1.2	818.5	165.8	1482.7	182.5
16	550	8.0450E-04	100.0	1.1344E-01	8.9	2.7434E-01	6.1	6.1097E-02	3.3	7.5042E+00	5.0	1.7933E+01	6.9	1.1344E-01	8.9	0.0150	0.0151	1.7663E+01	28.2	1.0240E-01	14.9	1.5	355.0	76.5	1668.1	276.4
17	388	0.0000E+00	0.0	1.0109E-01	8.4	1.8030E-01	6.5	6.5144E-02	3.0	8.8127E+00	5.0	1.4159E+01	18.1	1.0109E-01	8.4	0.0000	0.0000	1.4159E+01	18.1	1.0109E-01	8.4	0.0	439.9	65.4	1644.3	155.3
18	135	0.0000E+00	0.0	9.8801E-02	10.5	1.1277E-01	9.9	2.3983E-01	4.9	4.2123E+00	8.7	3.7648E+00	32.7	9.8801E-02	10.5	0.0000	0.0000	3.7648E+00	32.7	9.8801E-02	10.5	0.0	1518.5	342.1	1601.6	196.6
^{238}U																										
2	314	0.0000E+00	0.0	9.4096E-02	4.8	1.6168E-01	3.8	2.1010E-01	2.1	5.7728E+00	4.1	4.2565E+00	34.5	9.4096E-02	4.8	0.0000	0.0000	4.2565E+00	34.5	9.4096E-02	4.8	0.0	1360.3	322.5	1510.0	90.8
3	173	0.0000E+00	0.0	7.8801E-02	10.4	1.5366E-01	7.7	9.0119E-02	3.5	1.0895E+01	7.1	1.0712E+01	16.3	7.8801E-02	10.4	0.0000	0.0000	1.0712E+01	16.3	7.8801E-02	10.4	0.0	575.4	77.7	1167.1	205.8
4	1172	0.0000E+00	0.0	8.7224E-02	2.6	1.4081E-01	2.1	2.6429E-01	1.2	6.2479E+00	2.5	3.7264E+00	17.1	8.7224E-02	2.6	0.0000	0.0000	3.7264E+00	17.1	8.7224E-02	2.6	0.0	1532.5	202.4	1365.4	50.1
5	587	5.8223E-04	70.7	9.0538E-02	5.9	1.4818E-01	4.8	8.9102E-02	2.1	8.0770E+00	3.8	1.2633E+01	7.2	9.0538E-02	5.9	0.0109	0.0077	1.2495E+01	12.1	8.2335E-02	9.8	1.1	496.3	51.9	1253.5	190.9
6	52	0.0000E+00	0.0	8.2018E-02	20.4	5.3627E-02	24.9	9.2983E-02	7.0	8.2196E+00	12.8	9.7294E+00	52.8	8.2018E-02	20.4	0.0000	0.0000	9.7294E+00	52.8	8.2018E-02	20.4	0.0	630.7	211.0	1245.9	399.5
10	544	0.0000E+00	0.0	8.1056E-02	7.9	2.0982E-01	5.2	7.9945E-02	2.6	6.9652E+00	4.2	1.2854E+01	9.4	8.1056E-02	7.9	0.0000	0.0000	1.2854E+01	9.4	8.1056E-02	7.9	0.0	483.0	40.1	1222.8	154.4
11	235	1.0537E-03	100.1	9.9052E-02	10.8	2.0443E-01	7.9	7.2471E-02	3.9	8.5763E+00	6.6	1.3283E+01	20.7	9.9052E-02	10.8	0.0197	0.0197	1.3021E+01	33.6	8.4243E-02	22.4	2.0	477.0	116.6	1298.2	436.0
12	1276	5.5581E-05	100.0	9.5656E-02	2.5	1.4296E-01	2.1	2.6273E-01	1.2	5.4453E+00	2.4	4.1701E+00	8.2	9.5656E-02	2.5	0.0010	0.0010	4.1658E+00	8.2	9.4886E-02	2.7	0.1	1387.0	95.4	1525.8	50.3
13	55	0.0000E+00	0.0	8.0851E-02	23.9	1.7872E-01	16.8	9.4192E-02	8.2	7.6854E+00	14.5	7.8446E+00	56.4	8.0851E-02	23.9	0.0000	0.0000	7.8446E+00	56.4	8.0851E-02	23.9	0.0	773.5	268.3	1217.8	469.0
14	2362	1.2101E-04	100.0	8.3737E-02	4.0	1.3734E-01	3.2	1.8263E-01	1.6	4.2551E+00	2.6	4.4676E+00	15.5	8.3737E-02	4.0	0.0023	0.0023	4.4575E+00	15.5	8.2031E-02	4.6	0.2	1304.8	160.5	1246.3	89.3
15	715	0.0000E+00	0.0	8.2923E-02	7.0	1.2420E-01	5.8	1.6962E-01	2.8	4.5923E+00	4.7	5.1523E+00	29.5	8.2923E-02	7.0	0.0000	0.0000	5.1523E+00	29.5	8.2923E-02	7.0	0.0	1143.5	243.2	1267.4	137.3
16	3214	2.0381E-04	57.7	9.0903E-02	2.9	1.3269E-01	2.4	1.9927E-01	1.2	4.6491E+00	2.1	4.2455E+00	24.0	9.0903E-02	2.9	0.0038	0.0022	4.2293E+00	23.9	8.8053E-02	3.5	0.4	1368.2	242.5	1383.6	67.4
18	833	4.8641E-04	44.7	9.2711E-02	3.4	1.2550E-01	3.0	2.8975E-01	1.6	4.1915E+00	3.0	3.7583E+00	7.2	9.2711E-02	3.4	0.0091	0.0041	3.7241E+00	7.3	8.5891E-02	5.2	0.9	1533.3	93.5	1335.7	100.0
19	3101	1.8150E-04	44.7	9.5544E-02	2.0	1.4470E-01	1.7	2.4849E-01	0.9	4.3690E+00	1.7	4.3531E+00	10.8	9.5544E-02	2.0	0.0034	0.0015	4.3384E+00	10.7	9.3024E-02	2.4	0.3	1337.1	118.3	1488.4	46.0
^{206}Pb																										
1	32	0.0000E+00	0.0	8.9502E-02	11.2	8.3329E-02	11.6	5.3368E-01	6.6	5.6112E+00	14.8	1.5600E+00	50.0	8.9502E-02	11.2	0.0000	0.0000	1.5600E+00	50.0	8.9502E-02	11.2	0.0	3193.0	898.8	1414.9	214.0
2	39	0.0000E+00	0.0	1.1240E-01	6.8	1.5857E-01	5.8	9.9352E-01	5.7	5.9838E+00	13.9	1.2503E+00	33.0	1.1240E-01	6.8	0.0000	0.0000	1.2503E+00	33.0	1.1240E-01	6.8	0.0	3788.5	753.5	1838.5	123.0
3	421	0.0000E+00	0.0	9.5852E-02	4.2	1.5726E-01	3.3	2.0977E-01	1.9	5.8734E+00	3.6	4.2362E+00	30.9	9.5852E-02	4.2	0.0000	0.0000	4.2362E+00	30.9	9.5852E-02	4.2	0.0	1366.2	297.6	1544.9	78.4

		Measured ratios[2]								Uncorrected ratios							Corrected ratios[3]					Age [Ma]			
Area ID[1]	Area size [Pix-el]	$^{204}Pb/^{206}Pb$	±σ [%]	$^{207}Pb/^{206}Pb$	±σ [%]	$^{206}Pb/^{208}Pb$	±σ [%]	$^{206}Pb/^{238}U$	±σ [%]	$^{238}U/^{90}Zr$	±σ [%]	$^{238}U/^{206}Pb$	±σ [%]	$^{207}Pb/^{206}Pb$	±σ [%]	^{206}Pb	±σ [%]	$^{238}U/^{206}Pb$	±σ [%]	$^{207}Pb/^{206}Pb$	±σ [%]	^{206}Pb [%][4]	$^{238}U/^{206}Pb$	± 1σ	$^{207}Pb/^{206}Pb$	± 1σ
4	2057	3.2419E-05	100.0	8.8115E-02	2.0	1.4031E-01	1.6	2.7227E-01	0.9	5.7688E+00	1.9	3.6208E+00	16.4	8.8115E-02	2.0	0.0006	0.0006	3.6186E+00	16.4	8.7662E-02	2.1	0.1	1573.0	199.9	1375.1	39.9
5	1230	1.6707E-04	57.7	9.2501E-02	2.6	1.4106E-01	2.1	2.7650E-01	1.2	5.1840E+00	2.4	3.9176E+00	9.3	9.2501E-02	2.6	0.0031	0.0018	3.9053E+00	9.3	9.0172E-02	3.0	0.3	1469.7	113.0	1429.2	57.9
6	93	0.0000E+00	0.0	9.5889E-02	10.6	1.7416E-01	8.1	1.9562E-01	4.6	7.1825E+00	9.7	5.4564E+00	29.9	9.5889E-02	10.6	0.0000	0.0000	5.4564E+00	29.9	9.5889E-02	10.6	0.0	1084.8	233.8	1545.6	198.6
7	1806	2.7839E-04	44.7	9.3094E-02	2.6	1.3313E-01	2.2	2.7188E-01	1.2	3.9401E+00	2.1	3.9413E+00	13.9	9.3094E-02	2.6	0.0052	0.0023	3.9208E+00	13.8	8.9208E-02	3.3	0.5	1464.5	161.3	1408.6	63.7
8	1973	3.3999E-04	35.4	9.2395E-02	2.2	1.3013E-01	1.9	2.8844E-01	1.1	4.1755E+00	2.0	3.6460E+00	8.2	9.2395E-02	2.2	0.0064	0.0022	3.6228E+00	8.2	8.7638E-02	3.1	0.6	1571.3	106.7	1374.6	59.0
9	377	0.0000E+00	0.0	8.6698E-02	5.9	1.5165E-01	4.6	2.3410E-01	2.6	5.1882E+00	5.0	3.9311E+00	23.0	8.6698E-02	5.9	0.0000	0.0000	3.9311E+00	23.0	8.6698E-02	5.9	0.0	1461.0	249.0	1353.8	114.8
11	488	0.0000E+00	0.0	8.9478E-02	5.8	1.4316E-01	4.7	2.4286E-01	2.6	4.1754E+00	4.5	3.9292E+00	20.5	8.9478E-02	5.8	0.0000	0.0000	3.9292E+00	20.5	8.9478E-02	5.8	0.0	1461.7	226.5	1414.4	110.0
12	2086	5.7372E-04	70.7	8.0035E-02	6.2	1.5032E-01	4.7	8.1342E-02	2.1	5.8677E+00	3.1	9.6193E+00	20.7	8.0035E-02	6.2	0.0107	0.0076	9.5161E+00	21.7	7.1839E-02	10.8	1.1	644.1	110.4	981.4	220.3
14	834	1.0020E-03	70.8	1.0020E-01	7.4	2.5902E-01	4.9	6.3823E-02	2.6	7.5617E+00	4.1	1.7210E+01	6.4	1.0020E-01	7.4	0.0187	0.0133	1.6888E+01	24.1	8.6156E-02	14.9	1.9	370.8	70.3	1341.7	287.1
16	289	5.8927E-04	100.0	9.0159E-02	8.4	1.4319E-01	6.9	1.8142E-01	3.5	6.1505E+00	6.8	4.1626E+00	19.7	9.0159E-02	8.4	0.0110	0.0110	4.1167E+00	20.0	8.1851E-02	14.0	1.1	1401.8	213.8	1242.0	274.4
18	586	8.9445E-04	70.7	9.4812E-02	7.2	1.1896E-01	6.5	1.0593E-01	2.7	7.6836E+00	5.0	7.1930E+00	29.9	9.4812E-02	7.2	0.0167	0.0118	7.0726E+00	30.6	8.2208E-02	14.0	1.7	852.5	189.9	1250.5	274.7

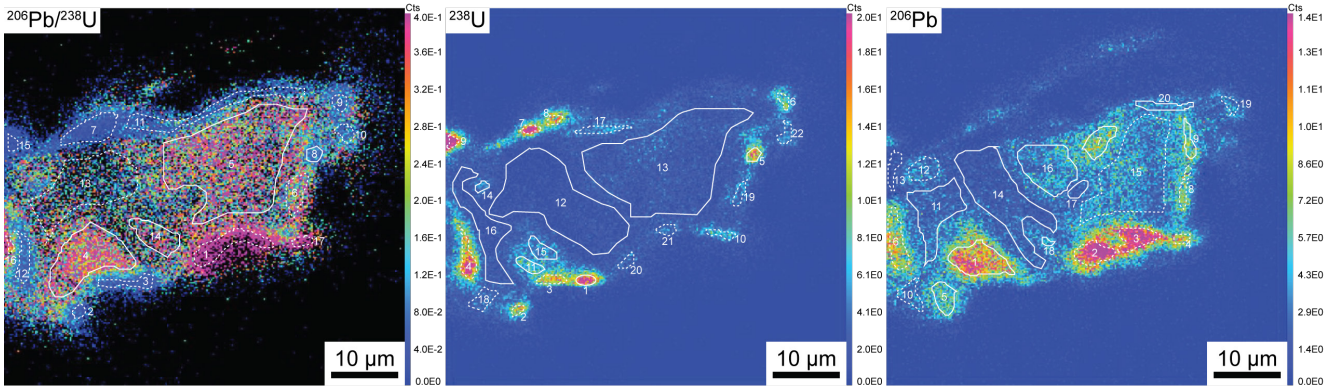
Area ID[1] corresponds to regions of interests (ROIs) used for calculation outlined in Figure above.

Measured ratios[2] are corrected fo detector gains. Uncertainties are counting statistic (Poisson) errors.

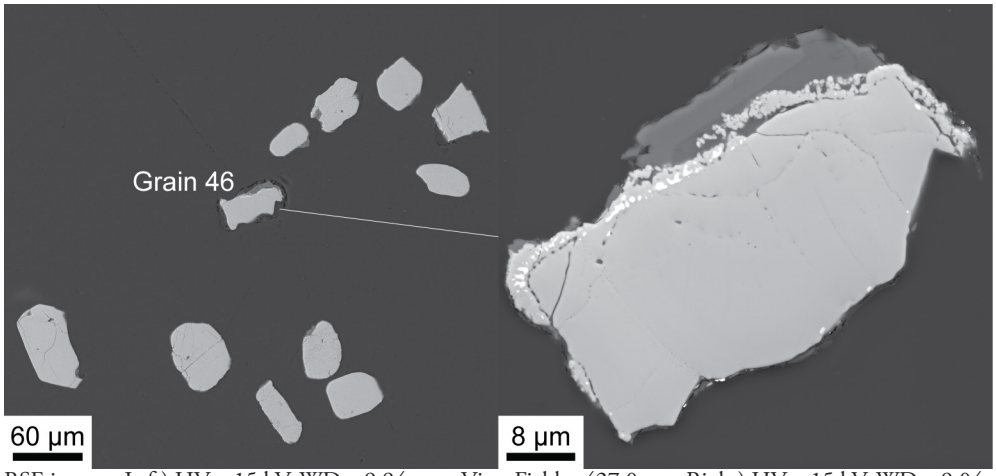
Corrected ratios[3] Values corrected for common Pb where ^{204}Pb exceeds detection limit.

^{206}Pb [%][4] Percentage of common Pb in measured ^{206}Pb, calculated from the ^{204}Pb assuming present-day Stacey & Kramers (1975) model terrestrial Pb isotope composition.

Ion image 68 grain 46



Ion imaging. Solid white lines mark the regions of interests (RIOs) where an age is calculated. Dotted white lines mark the ROIs where it was not possible to calculate an age due to common Pb content higher than 2%, and high uncertainty, i.e., absolute error higher than age value.



BSE images. Left) HV = 15 kV, WD = 9.94 mm, View Field = 427.0 µm. Right) HV = 15 kV, WD = 9.04 mm, View Field = 58.7 µm; close-up of the grain from the left image. Right image shows the grain after a further polishing to remove Au coating of the SIMS ion imaging and U-Pb spot analyses.

		Measured ratios[2]						Uncorrected ratios									Corrected ratios[3]					Age [Ma]			
Area ID[1]	Area size [Pixel]	$^{204}Pb/^{206}Pb$	±σ [%]	$^{207}Pb/^{206}Pb$	±σ [%]	$^{206}Pb/^{208}Pb$	±σ [%]	$^{206}Pb/^{238}U$	±σ [%]	$^{238}U/^{90}Zr$	±σ [%]	$^{238}U/^{206}Pb$	±σ [%]	$^{207}Pb/^{206}Pb$	±σ [%]	^{206}Pb	±σ [%]	$^{238}U/^{206}Pb$	±σ [%]	$^{207}Pb/^{206}Pb$	±σ [%]	^{206}Pb [%][4]	$^{238}U/^{206}Pb$	± 1σ	$^{207}Pb/^{206}Pb$	± 1σ
$^{206}Pb/^{238}U$																										
4	1438	1.7977E-04	70.7	1.0948E-01	3.0	1.7249E-01	2.5	3.5202E-01	1.7	2.6472E+00	2.6	2.4449E+00	25.8	1.0948E-01	3.0	0.0034	0.0024	2.4367E+00	25.7	1.0703E-01	3.5	0.3	2216.7	396.0	1749.5	64.1
5	4394	7.7708E-04	27.8	1.0598E-01	2.5	1.6749E-01	2.0	3.2434E-01	1.3	1.1090E+00	1.6	3.4225E+00	7.4	1.0598E-01	2.5	0.0145	0.0040	3.3727E+00	7.4	9.5223E-02	4.3	1.5	1673.9	102.1	1532.5	80.8
8	80	0.0000E+00	0.0	9.4594E-02	16.1	1.3513E-01	13.8	7.6209E-02	5.7	8.2839E+00	9.8	1.4260E+01	15.0	9.4594E-02	16.1	0.0000	0.0000	1.4260E+01	15.0	9.4594E-02	16.1	0.0	436.9	55.3	1520.0	304.3
14	463	7.8247E-04	100.0	1.1268E-01	8.8	1.4006E-01	8.0	3.3693E-01	4.9	8.1315E-01	5.4	2.7549E+00	23.3	1.1268E-01	8.8	0.0146	0.0146	2.7146E+00	23.3	1.0194E-01	14.7	1.5	2021.8	337.1	1659.7	271.5
^{238}U																										
1	39	0.0000E+00	0.0	8.8524E-02	20.1	1.0164E-01	18.9	4.2299E-02	6.4	1.3631E+01	11.0	2.1150E+01	42.2	8.8524E-02	20.1	0.0000	0.0000	2.1150E+01	42.2	8.8524E-02	20.1	0.0	297.8	86.9	1393.9	385.2
5	58	0.0000E+00	0.0	9.3749E-02	19.1	1.3437E-01	16.2	7.2412E-02	6.7	8.9654E+00	11.6	1.5337E+01	15.1	9.3749E-02	19.1	0.0000	0.0000	1.5337E+01	15.1	9.3749E-02	19.1	0.0	407.2	52.0	1503.1	360.8
11	115	0.0000E+00	0.0	1.0123E-01	8.4	1.7456E-01	6.6	3.2366E-01	4.4	5.1769E+00	8.8	2.5985E+00	62.0	1.0123E-01	8.4	0.0000	0.0000	2.5985E+00	62.0	1.0123E-01	8.4	0.0	2098.9	725.0	1646.8	155.8
12	3091	7.4349E-04	50.0	1.0353E-01	4.4	1.5837E-01	3.7	2.8322E-01	2.2	7.7413E-01	2.4	3.1291E+00	21.6	1.0353E-01	4.4	0.0139	0.0070	3.0856E+00	21.4	9.3208E-02	7.6	1.4	1809.6	284.1	1492.1	143.6
13	4702	7.5022E-04	27.8	1.0682E-01	2.5	1.6696E-01	2.0	3.1833E-01	1.3	1.1147E+00	1.5	3.4684E+00	8.4	1.0682E-01	2.5	0.0140	0.0039	3.4198E+00	8.4	9.6450E-02	4.1	1.4	1653.6	114.2	1556.5	77.4
14	43	0.0000E+00	0.0	1.2150E-01	29.4	6.5421E-02	39.0	1.0056E-01	12.3	4.3169E+00	17.3	9.6974E+00	85.0	1.2150E-01	29.4	0.0000	0.0000	9.6974E+00	85.0	1.2150E-01	29.4	0.0	632.7	282.9	1978.3	523.0
15	161	0.0000E+00	0.0	1.2032E-01	7.6	1.7082E-01	6.5	3.6400E-01	4.5	2.9090E+00	7.3	2.7248E+00	39.8	1.2032E-01	7.6	0.0000	0.0000	2.7248E+00	39.8	1.2032E-01	7.6	0.0	2015.3	512.5	1961.0	136.0
^{206}Pb																										
1	611	0.0000E+00	0.0	1.0966E-01	3.9	1.6634E-01	3.2	3.1572E-01	2.1	3.8783E+00	3.7	2.5759E+00	30.3	1.0966E-01	3.9	0.0000	0.0000	2.5759E+00	30.3	1.0966E-01	3.9	0.0	2114.5	433.0	1793.8	70.5
5	231	7.8615E-04	100.0	1.2500E-01	8.4	1.8003E-01	7.2	2.2438E-01	4.3	3.3204E+00	6.8	4.1975E+00	71.3	1.2500E-01	8.4	0.0147	0.0147	4.1358E+00	70.6	1.1440E-01	13.4	1.5	1396.0	541.4	1870.4	240.8
7	271	6.1311E-04	100.0	1.1159E-01	7.8	1.6861E-01	6.5	3.4918E-01	4.4	1.7229E+00	5.9	3.2741E+00	15.2	1.1159E-01	7.8	0.0115	0.0115	3.2366E+00	15.5	1.0319E-01	11.9	1.1	1735.6	208.0	1682.2	220.5
9	118	0.0000E+00	0.0	1.0444E-01	12.3	1.9742E-01	9.3	1.2692E-01	5.0	4.4257E+00	7.7	8.1843E+00	9.2	1.0444E-01	12.3	0.0000	0.0000	8.1843E+00	9.2	1.0444E-01	12.3	0.0	743.1	59.5	1704.4	226.5
11	930	9.9949E-04	70.8	1.0945E-01	7.1	1.8491E-01	5.7	2.8820E-01	3.7	1.2977E+00	4.5	2.9283E+00	29.1	1.0945E-01	7.1	0.0187	0.0132	2.8735E+00	28.8	9.5612E-02	13.5	1.9	1925.1	383.6	1540.2	253.7
14	1906	1.0359E-03	57.8	1.0774E-01	6.0	1.6609E-01	4.9	2.6239E-01	3.0	7.6885E-01	3.1	3.3405E+00	25.7	1.0774E-01	6.0	0.0194	0.0112	3.2758E+00	25.5	9.3354E-02	11.6	1.9	1717.4	313.4	1495.1	219.7
16	944	6.2519E-04	70.7	9.7531E-02	5.9	1.5474E-01	4.8	2.8749E-01	2.9	1.1144E+00	3.4	3.3206E+00	23.1	9.7531E-02	5.9	0.0117	0.0083	3.2818E+00	23.0	8.8798E-02	9.7	1.2	1714.6	287.8	1399.8	186.0
17	91	0.0000E+00	0.0	1.2209E-01	23.1	1.6279E-01	20.4	2.3453E-01	11.8	1.1845E+00	13.4	4.7791E+00	22.3	1.2209E-01	23.1	0.0000	0.0000	4.7791E+00	22.3	1.2209E-01	23.1	0.0	1224.8	207.0	1987.0	411.3
18	30	0.0000E+00	0.0	8.2645E-02	32.9	8.2645E-02	32.9	3.5945E-01	16.2	1.3333E+00	20.4	3.2630E+00	52.6	8.2645E-02	32.9	0.0000	0.0000	3.2630E+00	52.6	8.2645E-02	32.9	0.0	1723.3	543.3	1260.8	642.9
20	160	0.0000E+00	0.0	1.2348E-01	13.6	2.4899E-01	10.1	3.4675E-01	7.9	9.3674E-01	9.0	3.3576E+00	15.8	1.2348E-01	13.6	0.0000	0.0000	3.3576E+00	15.8	1.2348E-01	13.6	0.0	1680.5	205.6	2007.1	240.9

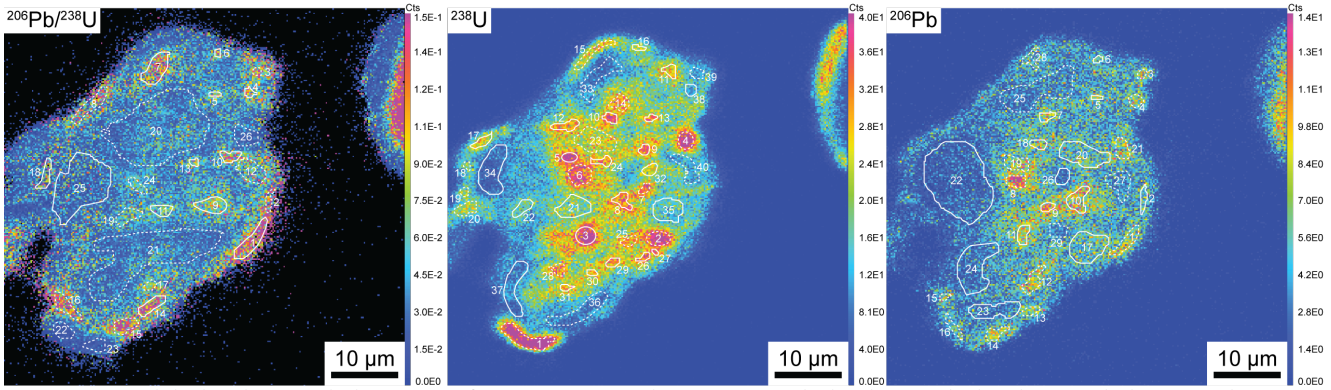
Area ID[1] corresponds to regions of interests (ROIs) used for calculation outlined in Figure above.

Measured ratios[2] are corrected fo detector gains. Uncertainties are counting statistic (Poisson) errors.

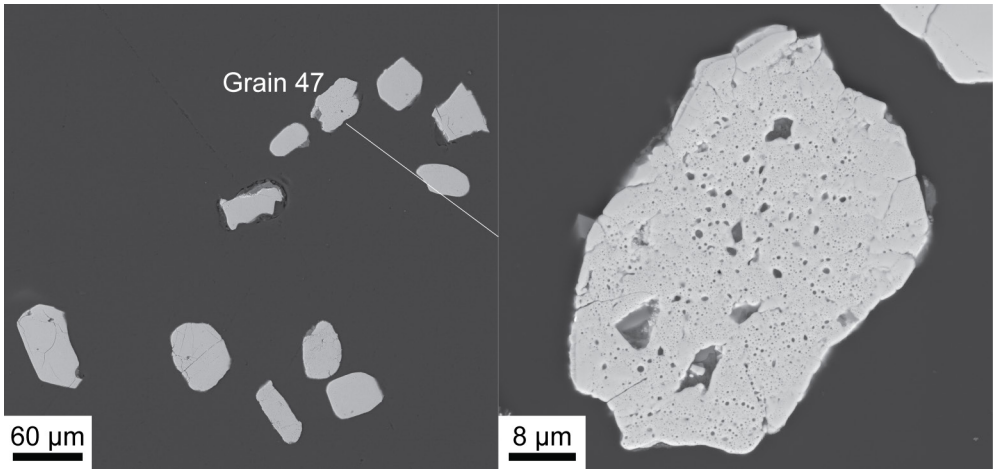
Corrected ratios[3] Values corrected for common Pb where ^{204}Pb exceeds detection limit.

^{206}Pb [%][4] Percentage of common Pb in measured ^{206}Pb, calculated from the ^{204}Pb assuming present-day Stacey & Kramers (1975) model terrestrial Pb isotope composition.

Ion image 69 grain 47



Ion imaging. Solid white lines mark the regions of interests (RIOs) where an age is calculated. Dotted white lines mark the ROIs where it was not possible to calculate an age due to common Pb content higher than 2%, and high uncertainty, i.e., absolute error higher than age value.



BSE images. Left) HV = 15 kV, WD = 9.94 mm, View Field = 427.0 µm. Right) HV = 15 kV, WD = 9.04 mm, View Field = 59.7 µm; close-up of the grain from the left image. Right image shows the grain after a further polishing to remove Au coating of the SIMS ion imaging and U-Pb spot analyses.

Area ID[1]	Area size [Pixel]	Measured ratios[2]						Uncorrected ratios								Corrected ratios[3]						Age [Ma]			
		$^{204}Pb/^{206}Pb$	±σ [%]	$^{207}Pb/^{206}Pb$	±σ [%]	$^{206}Pb/^{208}Pb$	±σ [%]	$^{206}Pb/^{238}U$	±σ [%]	$^{238}U/^{90}Zr$	±σ [%]	$^{238}U/^{206}Pb$	±σ [%]	$^{207}Pb/^{206}Pb$	±σ [%]	^{206}Pb	±σ [%]	$^{238}U/^{206}Pb$	±σ [%]	$^{207}Pb/^{206}Pb$	±σ [%]	^{206}Pb [%][4]	$^{238}U/^{206}Pb$	± 1σ	$^{207}Pb/^{206}Pb$	± 1σ
$^{206}Pb/^{238}U$																										
1	210	4.2735E-03	44.8	1.2906E-01	8.6	1.2308E-01	8.8	1.4362E-01	4.0	6.8098E+00	7.6	8.1139E+00	9.6	1.2906E-01	8.6	0.0799	0.0358	7.4653E+00	32.8	6.7680E-02	51.3	8.0	577.0	102.0	936.3	588.4
4	34	0.0000E+00	0.0	1.4660E-01	20.2	1.9895E-01	17.8	8.0020E-02	8.8	6.4041E+00	13.7	1.3609E+01	30.5	1.4660E-01	20.2	0.0000	0.0000	1.3609E+01	30.5	1.4660E-01	20.2	0.0	457.1	103.9	2306.6	347.5
5	21	0.0000E+00	0.0	9.4935E-02	27.0	3.1645E-02	45.4	8.1857E-02	9.7	8.2335E+00	17.0	1.3031E+01	34.4	9.4935E-02	27.0	0.0000	0.0000	1.3031E+01	34.4	9.4935E-02	27.0	0.0	476.6	118.6	1526.8	509.0
6	16	0.0000E+00	0.0	2.4692E-02	71.6	4.9383E-02	51.2	8.7483E-02	13.7	1.1002E+01	27.9	1.1714E+01	63.9	2.4692E-02	71.6	0.0000	0.0000	1.1714E+01	63.9	2.4692E-02	71.6	0.0	528.1	200.9	#NUM!	#NUM!
7	225	0.0000E+00	0.0	9.8305E-02	11.2	5.6497E-02	14.5	9.1720E-02	4.2	5.5733E+00	6.4	1.0722E+01	17.7	9.8305E-02	11.2	0.0000	0.0000	1.0722E+01	17.7	9.8305E-02	11.2	0.0	574.8	83.1	1592.2	209.9
9	157	0.0000E+00	0.0	8.6079E-02	10.8	3.9377E-02	15.6	7.0201E-02	3.6	7.7941E+00	5.8	1.6313E+01	16.4	8.6079E-02	10.8	0.0000	0.0000	1.6313E+01	16.4	8.6079E-02	10.8	0.0	383.5	52.6	1340.0	207.7
10	72	0.0000E+00	0.0	7.2234E-02	18.3	5.8691E-02	20.2	8.6374E-02	5.9	5.4689E+00	8.7	1.2273E+01	23.9	7.2234E-02	18.3	0.0000	0.0000	1.2273E+01	23.9	7.2234E-02	18.3	0.0	505.0	94.5	992.6	372.3
11	84	0.0000E+00	0.0	8.9572E-02	12.8	6.5507E-02	14.8	6.0763E-02	4.3	1.3472E+01	8.4	1.4303E+01	53.1	8.9572E-02	12.8	0.0000	0.0000	1.4303E+01	53.1	8.9572E-02	12.8	0.0	435.6	147.8	1416.4	243.8
13	24	0.0000E+00	0.0	8.0744E-02	28.8	3.7266E-02	41.6	7.4582E-02	9.5	7.1824E+00	15.1	1.6161E+01	49.9	8.0744E-02	28.8	0.0000	0.0000	1.6161E+01	49.9	8.0744E-02	28.8	0.0	387.0	126.2	1215.2	567.1
14	116	0.0000E+00	0.0	9.5999E-02	13.5	2.8800E-02	23.9	1.1707E-01	5.2	4.7491E+00	8.1	7.6431E+00	33.1	9.5999E-02	13.5	0.0000	0.0000	7.6431E+00	33.1	9.5999E-02	13.5	0.0	792.6	188.1	1547.8	254.0
18	88	0.0000E+00	0.0	5.4054E-02	36.3	6.7568E-02	32.7	5.6722E-02	9.5	5.4941E+00	12.2	1.5427E+01	74.2	5.4054E-02	36.3	0.0000	0.0000	1.5427E+01	74.2	5.4054E-02	36.3	0.0	404.9	169.3	373.3	817.2
25	1087	9.1074E-04	70.7	8.8798E-02	7.5	5.7378E-02	9.2	2.6644E-02	2.3	1.3095E+01	3.2	3.4670E+01	12.2	8.8798E-02	7.5	0.0170	0.0120	3.4079E+01	44.2	7.5856E-02	15.3	1.7	186.4	56.5	1091.3	307.2
^{238}U																										
3	78	0.0000E+00	0.0	8.1471E-02	13.2	6.0447E-02	15.2	2.6507E-02	3.9	2.8427E+01	7.8	3.4559E+01	35.6	8.1471E-02	13.2	0.0000	0.0000	3.4559E+01	35.6	8.1471E-02	13.2	0.0	183.9	47.8	1232.8	259.2
5	28	0.0000E+00	0.0	5.4237E-02	25.7	4.7457E-02	27.4	2.2936E-02	6.2	3.1935E+01	12.4	4.6551E+01	68.4	5.4237E-02	25.7	0.0000	0.0000	4.6551E+01	68.4	5.4237E-02	25.7	0.0	137.0	55.3	380.9	577.1
8	75	0.0000E+00	0.0	7.6642E-02	16.0	4.1970E-02	21.3	3.7556E-02	4.7	2.4272E+01	10.2	3.0393E+01	20.5	7.6642E-02	16.0	0.0000	0.0000	3.0393E+01	20.5	7.6642E-02	16.0	0.0	208.7	35.0	1111.9	319.7
9	37	0.0000E+00	0.0	7.6470E-02	28.8	6.4706E-02	31.1	2.2794E-02	8.2	1.9088E+01	12.7	5.4371E+01	51.9	7.6470E-02	28.8	0.0000	0.0000	5.4371E+01	51.9	7.6470E-02	28.8	0.0	117.5	39.9	1107.4	575.1
10	49	0.0000E+00	0.0	8.4110E-02	20.0	6.2304E-02	23.0	3.1134E-02	6.1	1.9712E+01	11.0	3.0690E+01	32.5	8.4110E-02	20.0	0.0000	0.0000	3.0690E+01	32.5	8.4110E-02	20.0	0.0	206.7	50.1	1295.1	389.7
11	53	0.0000E+00	0.0	7.4349E-02	23.2	2.9740E-02	35.9	3.1145E-02	6.6	1.9157E+01	11.8	3.1199E+01	31.8	7.4349E-02	23.2	0.0000	0.0000	3.1199E+01	31.8	7.4349E-02	23.2	0.0	203.4	48.5	1051.0	467.1
12	79	0.0000E+00	0.0	3.6364E-02	29.4	7.5758E-02	20.7	2.2832E-02	5.9	2.8284E+01	11.0	3.6490E+01	38.7	3.6364E-02	29.4	0.0000	0.0000	3.6490E+01	38.7	3.6364E-02	29.4	0.0	174.3	48.2	-603.5	799.6
13	26	0.0000E+00	0.0	1.0078E-01	29.1	4.6512E-02	41.8	2.5656E-02	9.5	1.8184E+01	15.1	4.5427E+01	39.2	1.0078E-01	29.1	0.0000	0.0000	4.5427E+01	39.2	1.0078E-01	29.1	0.0	140.4	39.2	1638.5	540.3
16	26	0.0000E+00	0.0	8.8495E-02	33.0	7.9645E-02	34.6	3.0605E-02	10.2	2.1177E+01	19.0	4.0309E+01	40.8	8.8495E-02	33.0	0.0000	0.0000	4.0309E+01	40.8	8.8495E-02	33.0	0.0	158.0	45.3	1393.2	632.8
17	59	0.0000E+00	0.0	1.4660E-01	20.2	2.2513E-01	16.9	2.1533E-02	7.7	2.7327E+01	13.9	2.7877E+01	88.0	1.4660E-01	20.2	0.0000	0.0000	2.7877E+01	88.0	1.4660E-01	20.2	0.0	227.2	105.3	2306.6	347.5
21	228	8.1498E-04	100.0	6.5199E-02	11.5	5.0529E-02	13.0	4.7786E-02	3.2	1.4628E+01	6.1	1.6158E+01	36.1	6.5199E-02	11.5	0.0152	0.0152	1.5912E+01	43.5	5.3274E-02	27.2	1.5	392.9	116.5	340.5	615.5
22	82	0.0000E+00	0.0	5.3098E-02	29.6	4.4248E-02	32.3	2.8218E-02	7.2	1.7303E+01	11.7	3.9606E+01	71.4	5.3098E-02	29.6	0.0000	0.0000	3.9606E+01	71.4	5.3098E-02	29.6	0.0	160.7	66.5	333.0	671.6
24	55	0.0000E+00	0.0	9.2592E-02	19.1	4.3210E-02	27.3	3.3049E-02	6.1	1.6472E+01	10.4	3.4788E+01	27.9	9.2592E-02	19.1	0.0000	0.0000	3.4788E+01	27.9	9.2592E-02	19.1	0.0	182.7	39.4	1479.6	361.7
26	32	0.0000E+00	0.0	9.6152E-02	27.0	7.6922E-02	30.0	2.3554E-02	8.6	2.0787E+01	14.1	4.1666E+01	31.8	9.6152E-02	27.0	0.0000	0.0000	4.1666E+01	31.8	9.6152E-02	27.0	0.0	152.9	36.6	1550.7	507.6
27	12	0.0000E+00	0.0	8.8233E-02	42.6	5.8822E-02	51.5	2.6171E-02	13.1	1.8794E+01	21.4	3.4507E+01	53.4	8.8233E-02	42.6	0.0000	0.0000	3.4507E+01	53.4	8.8233E-02	42.6	0.0	184.2	63.5	1387.6	817.6
29	42	0.0000E+00	0.0	5.7034E-02	26.5	6.0836E-02	25.8	3.3896E-02	6.8	2.0168E+01	12.8	2.7892E+01	59.2	5.7034E-02	26.5	0.0000	0.0000	2.7892E+01	59.2	5.7034E-02	26.5	0.0	227.1	83.5	492.9	585.4
30	22	0.0000E+00	0.0	6.9620E-02	31.2	1.2658E-02	71.2	4.3001E-02	8.9	1.5673E+01	16.5	2.3447E+01	81.6	6.9620E-02	31.2	0.0000	0.0000	2.3447E+01	81.6	6.9620E-02	31.2	0.0	269.2	119.6	917.2	641.3
31	23	0.0000E+00	0.0	3.8461E-02	51.0	4.8076E-02	45.8	2.5206E-02	10.5	2.5422E+01	19.6	3.2248E+01	70.3	3.8461E-02	51.0	0.0000	0.0000	3.2248E+01	70.3	3.8461E-02	51.0	0.0	196.9	80.5	-453.3	1343.4
32	53	0.0000E+00	0.0	1.0811E-01	18.6	1.1486E-01	18.1	3.9406E-02	6.5	1.1788E+01	10.1	2.8139E+01	27.9	1.0811E-01	18.6	0.0000	0.0000	2.8139E+01	27.9	1.0811E-01	18.6	0.0	225.1	48.4	1767.7	339.9
34	391	0.0000E+00	0.0	6.9768E-02	16.0	5.6479E-02	17.6	3.7843E-02	4.5	8.1424E+00	5.9	2.3701E+01	48.4	6.9768E-02	16.0	0.0000	0.0000	2.3701E+01	48.4	6.9768E-02	16.0	0.0	266.4	85.7	921.5	328.1

Area ID[1]	Area size [Pixel]	Measured ratios[2]										Uncorrected ratios						Corrected ratios[3]				Age [Ma]			
		$^{204}Pb/^{206}Pb$	±σ [%]	$^{207}Pb/^{206}Pb$	±σ [%]	$^{206}Pb/^{208}Pb$	±σ [%]	$^{206}Pb/^{238}U$	±σ [%]	$^{238}U/^{90}Zr$	±σ [%]	$^{238}U/^{206}Pb$	±σ [%]	$^{207}Pb/^{206}Pb$	±σ [%]	^{206}Pb	±σ [%]	$^{238}U/^{206}Pb$	±σ [%]	$^{207}Pb/^{206}Pb$	±σ [%]	^{206}Pb [%][4]	$^{238}U/^{206}Pb$	± 1σ	$^{207}Pb/^{206}Pb$	± 1σ
35	243	7.5585E-04	100.0	7.5586E-02	10.4	4.6863E-02	13.0	5.9627E-02	3.2	7.1669E+00	4.7	1.7787E+01	17.0	7.5586E-02	10.4	0.0141	0.0141	1.7536E+01	30.6	6.4687E-02	21.3	1.4	357.5	81.9	764.2	447.9
37	295	1.0204E-03	100.1	1.1837E-01	9.8	1.1837E-01	9.8	6.4658E-02	3.8	8.4326E+00	6.1	1.1623E+01	63.5	1.1837E-01	9.8	0.0191	0.0191	1.1402E+01	66.3	1.0441E-01	17.9	1.9	542.0	210.7	1704.0	330.4
38	45	0.0000E+00	0.0	1.0480E-01	21.5	1.3974E-01	18.9	6.9251E-02	7.9	6.6279E+00	11.8	1.6532E+01	22.4	1.0480E-01	21.5	0.0000	0.0000	1.6532E+01	22.4	1.0480E-01	21.5	0.0	378.6	67.7	1710.9	394.8
2	53	0.0000E+00	0.0	1.1154E-01	19.6	9.2308E-02	21.3	6.1774E-02	7.3	8.1408E+00	11.4	1.9248E+01	26.9	1.1154E-01	19.6	0.0000	0.0000	1.9248E+01	26.9	1.1154E-01	19.6	0.0	326.5	67.8	1824.6	355.1
5	16	0.0000E+00	0.0	1.1017E-01	29.2	1.6949E-02	71.3	8.1092E-02	11.2	8.6456E+00	20.0	1.2324E+01	35.2	1.1017E-01	29.2	0.0000	0.0000	1.2324E+01	35.2	1.1017E-01	29.2	0.0	502.9	127.1	1802.2	531.5
6	21	0.0000E+00	0.0	8.2645E-02	32.9	4.9587E-02	41.8	6.0985E-02	10.6	1.3753E+01	21.1	1.6470E+01	34.5	8.2645E-02	32.9	0.0000	0.0000	1.6470E+01	34.5	8.2645E-02	32.9	0.0	380.0	95.3	1260.8	642.9
7	47	0.0000E+00	0.0	7.6293E-02	19.6	6.2669E-02	21.5	3.9212E-02	5.8	1.9960E+01	11.6	2.2362E+01	29.9	7.6293E-02	19.6	0.0000	0.0000	2.2362E+01	29.9	7.6293E-02	19.6	0.0	282.0	63.8	1102.8	392.1
9	40	0.0000E+00	0.0	1.0024E-01	16.2	6.9211E-02	19.2	6.1925E-02	5.7	1.5209E+01	12.0	2.1718E+01	89.8	1.0024E-01	16.2	0.0000	0.0000	2.1718E+01	89.8	1.0024E-01	16.2	0.0	290.2	135.7	1628.5	301.0
10	152	7.7759E-04	100.0	7.3872E-02	10.6	4.2768E-02	13.8	5.1390E-02	3.2	1.2929E+01	5.8	2.2206E+01	31.0	7.3872E-02	10.6	0.0145	0.0145	2.1883E+01	44.8	6.2630E-02	22.4	1.5	288.1	87.7	695.7	478.3
11	80	0.0000E+00	0.0	7.3529E-02	15.4	4.5751E-02	19.3	2.9342E-02	4.4	2.7981E+01	9.1	3.6292E+01	44.8	7.3529E-02	15.4	0.0000	0.0000	3.6292E+01	44.8	7.3529E-02	15.4	0.0	175.2	53.7	1028.6	312.4
17	385	9.8861E-04	70.8	8.5022E-02	7.9	6.1789E-02	9.2	2.7191E-02	2.4	1.7359E+01	3.8	3.6646E+01	15.3	8.5022E-02	7.9	0.0185	0.0131	3.5969E+01	51.1	7.0881E-02	17.6	1.8	176.8	59.2	954.0	359.4
18	52	0.0000E+00	0.0	5.1282E-02	24.2	5.9829E-02	22.5	4.4117E-02	6.0	1.4871E+01	10.9	1.9636E+01	44.3	5.1282E-02	24.2	0.0000	0.0000	1.9636E+01	44.3	5.1282E-02	24.2	0.0	320.2	96.6	253.5	555.9
20	367	5.2246E-04	100.0	7.6802E-02	8.6	6.5308E-02	9.2	3.8106E-02	2.5	1.2622E+01	4.0	2.7970E+01	18.2	7.6802E-02	8.6	0.0098	0.0098	2.7697E+01	33.0	6.9314E-02	14.6	1.0	228.6	56.0	908.1	300.8
22	1710	8.6654E-04	57.8	7.6257E-02	6.4	5.8348E-02	7.2	2.9889E-02	1.9	1.1649E+01	2.6	2.9323E+01	16.2	7.6257E-02	6.4	0.0162	0.0094	2.8848E+01	32.1	6.3747E-02	14.0	1.6	219.7	52.7	733.2	297.5
23	275	0.0000E+00	0.0	8.8165E-02	12.2	8.2126E-02	12.6	3.8114E-02	3.8	9.0118E+00	5.3	2.5606E+01	35.6	8.8165E-02	12.2	0.0000	0.0000	2.5606E+01	35.6	8.8165E-02	12.2	0.0	247.0	64.0	1386.1	234.5
24	557	0.0000E+00	0.0	7.5950E-02	9.7	5.3298E-02	11.5	2.8672E-02	2.8	1.3095E+01	4.0	3.2146E+01	33.2	7.5950E-02	9.7	0.0000	0.0000	3.2146E+01	33.2	7.5950E-02	9.7	0.0	197.5	48.7	1093.7	194.6
26	77	0.0000E+00	0.0	9.2897E-02	25.4	6.5574E-02	29.8	2.9040E-02	8.0	1.7768E+01	13.4	3.3504E+01	28.7	9.2897E-02	25.4	0.0000	0.0000	3.3504E+01	28.7	9.2897E-02	25.4	0.0	189.6	41.7	1485.8	480.4

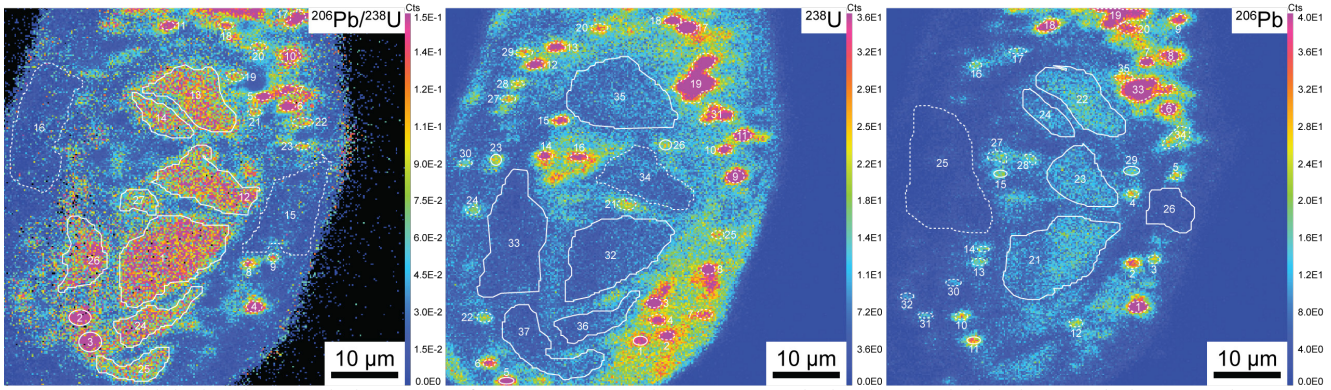
Area ID[1] corresponds to regions of interests (ROIs) used for calculation outlined in Figure above.

Measured ratios[2] are corrected fo detector gains. Uncertainties are counting statistic (Poisson) errors.

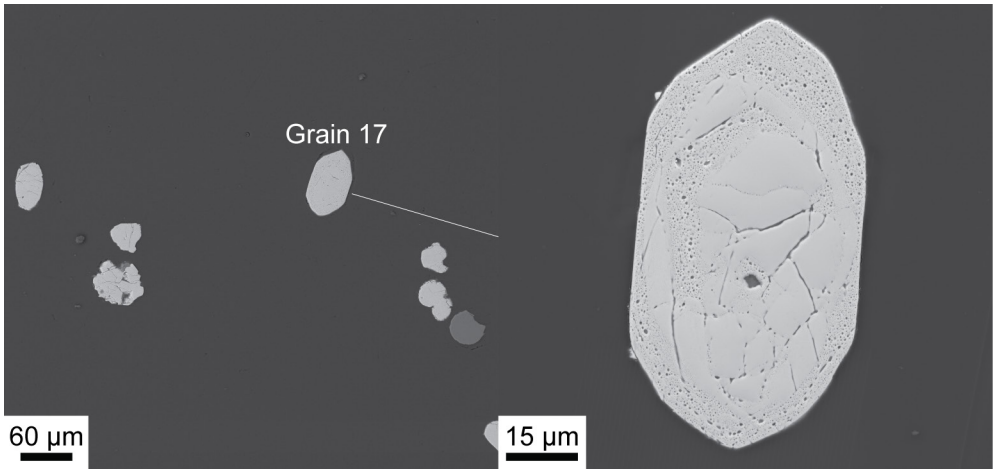
Corrected ratios[3] Values corrected for common Pb where ^{204}Pb exceeds detection limit.

^{206}Pb [%][4] Percentage of common Pb in measured ^{206}Pb, calculated from the ^{204}Pb assuming present-day Stacey & Kramers (1975) model terrestrial Pb isotope composition.

Ion image 70 grain 17



Ion imaging. Solid white lines mark the regions of interests (RIOs) where an age is calculated. Dotted white lines mark the ROIs where it was not possible to calculate an age due to common Pb content higher than 2%, and high uncertainty, i.e., absolute error higher than age value.



BSE images. Left) HV = 15 kV, WD = 9.94 mm, View Field = 583.0 µm. Right) HV = 15 kV, WD = 9.04 mm, View Field = 104.0 µm; close-up of the grain from the left image. Right image shows the grain after a further polishing to remove Au coating of the SIMS ion imaging and U-Pb spot analyses.

Area ID[1]	Area size [Pixel]	Measured ratios[2]						Uncorrected ratios										Corrected ratios[3]					Age [Ma]			
		$^{204}Pb/^{206}Pb$	±σ [%]	$^{207}Pb/^{206}Pb$	±σ [%]	$^{206}Pb/^{208}Pb$	±σ [%]	$^{206}Pb/^{238}U$	±σ [%]	$^{238}U/^{90}Zr$	±σ [%]	$^{238}U/^{206}Pb$	±σ [%]	$^{207}Pb/^{206}Pb$	±σ [%]	^{206}Pb	±σ [%]	$^{238}U/^{206}Pb$	±σ [%]	$^{207}Pb/^{206}Pb$	±σ [%]	^{206}Pb [%][4]	$^{238}U/^{206}Pb$	± 1σ	$^{207}Pb/^{206}Pb$	± 1σ
$^{206}Pb/^{238}U$																										
1	2669	2.7014E-04	37.8	1.1049E-01	2.0	1.5460E-01	1.7	3.0667E-01	1.0	3.0450E+00	1.7	3.1135E+00	14.4	1.1049E-01	2.0	0.0051	0.0019	3.0978E+00	14.4	1.0681E-01	2.4	0.5	1803.4	200.5	1745.6	44.6
2	84	0.0000E+00	0.0	1.3325E-01	7.1	7.4358E-02	9.3	6.3699E-01	5.4	3.2521E+00	9.8	1.5216E+00	56.1	1.3325E-01	7.1	0.0000	0.0000	1.5216E+00	56.1	1.3325E-01	7.1	0.0	3256.2	991.1	2141.2	124.3
3	124	7.6389E-04	70.7	1.1803E-01	6.0	7.1807E-02	7.6	6.2039E-01	4.3	3.8364E+00	8.3	1.5114E+00	30.8	1.1803E-01	6.0	0.0143	0.0101	1.4899E+00	30.4	1.0762E-01	9.7	1.4	3310.5	633.1	1759.6	177.6
12	1518	9.1692E-04	26.7	1.1252E-01	2.5	1.0676E-01	2.6	2.5708E-01	1.3	3.5888E+00	2.2	4.1389E+00	14.1	1.1252E-01	2.5	0.0171	0.0046	4.0679E+00	14.0	9.9904E-02	4.5	1.7	1416.9	158.0	1622.3	84.6
13	1388	2.4973E-04	50.0	1.1182E-01	2.5	5.3816E-02	3.5	2.5669E-01	1.3	4.7946E+00	2.4	4.1349E+00	11.1	1.1182E-01	2.5	0.0047	0.0023	4.1156E+00	11.1	1.0842E-01	3.0	0.5	1402.2	127.2	1773.0	55.2
14	562	2.1454E-04	100.0	1.0770E-01	4.7	5.9643E-02	6.2	2.0825E-01	2.2	4.7613E+00	3.9	4.4543E+00	23.0	1.0770E-01	4.7	0.0040	0.0040	4.4364E+00	23.0	1.0477E-01	5.6	0.4	1310.4	225.3	1710.3	103.3
24	769	1.5188E-04	100.0	1.1239E-01	3.9	1.6373E-01	3.3	2.3507E-01	1.9	3.8254E+00	3.2	3.9619E+00	24.3	1.1239E-01	3.9	0.0028	0.0028	3.9507E+00	24.2	1.1033E-01	4.4	0.3	1454.5	259.2	1804.9	79.8
25	564	0.0000E+00	0.0	1.0807E-01	4.4	5.3658E-02	6.1	2.0117E-01	2.0	5.3948E+00	3.8	4.3719E+00	14.3	1.0807E-01	4.4	0.0000	0.0000	4.3719E+00	14.3	1.0807E-01	4.4	0.0	1327.9	152.4	1767.1	80.2
26	962	4.9276E-04	57.8	1.1301E-01	4.0	4.4842E-02	6.2	2.5900E-01	2.0	4.1117E+00	3.6	3.2690E+00	28.8	1.1301E-01	4.0	0.0092	0.0053	3.2389E+00	28.6	1.0629E-01	5.7	0.9	1734.5	347.0	1736.7	104.5
27	301	0.0000E+00	0.0	1.0979E-01	5.9	1.2780E-01	5.5	1.6862E-01	2.6	4.8213E+00	4.5	5.3274E+00	21.7	1.0979E-01	5.9	0.0000	0.0000	5.3274E+00	21.7	1.0979E-01	5.9	0.0	1108.9	184.6	1795.9	106.7
^{238}U																										
1	20	0.0000E+00	0.0	1.1780E-01	15.8	7.5914E-02	19.3	4.5429E-02	5.8	2.1195E+01	12.6	2.3268E+01	38.4	1.1780E-01	15.8	0.0000	0.0000	2.3268E+01	38.4	1.1780E-01	15.8	0.0	271.3	74.1	1923.1	282.5
5	20	0.0000E+00	0.0	7.9617E-02	20.8	7.6432E-02	21.2	2.6940E-02	6.1	8.4306E+01	21.0	4.7171E+01	85.9	7.9617E-02	20.8	0.0000	0.0000	4.7171E+01	85.9	7.9617E-02	20.8	0.0	135.2	62.1	1187.5	410.4
23	20	0.0000E+00	0.0	8.2759E-02	30.0	9.6552E-02	28.0	3.4106E-02	9.1	3.5363E+01	22.7	1.2177E+01	94.4	8.2759E-02	30.0	0.0000	0.0000	1.2177E+01	94.4	8.2759E-02	30.0	0.0	508.8	242.1	1263.5	586.8
26	22	0.0000E+00	0.0	1.0256E-01	21.4	1.0684E-01	21.0	5.9145E-02	7.6	7.3130E+00	11.2	1.8304E+01	35.3	1.0256E-01	21.4	0.0000	0.0000	1.8304E+01	35.3	1.0256E-01	21.4	0.0	342.9	87.7	1671.0	396.2
32	2488	8.1613E-05	70.7	1.1104E-01	2.0	1.5368E-01	1.8	3.2101E-01	1.1	2.9267E+00	1.8	2.9903E+00	15.0	1.1104E-01	2.0	0.0015	0.0011	2.9858E+00	15.0	1.0993E-01	2.2	0.2	1862.2	214.3	1798.2	39.4
33	2491	4.8533E-04	44.7	1.1153E-01	3.1	4.7563E-02	4.6	1.6872E-01	1.4	5.0111E+00	2.4	5.1237E+00	16.2	1.1153E-01	3.1	0.0091	0.0041	5.0772E+00	16.2	1.0490E-01	4.4	0.9	1159.0	149.4	1712.5	81.1
35	2446	4.2234E-04	31.6	1.1057E-01	2.1	5.4524E-02	2.9	2.2532E-01	1.0	4.9423E+00	1.8	4.5265E+00	12.8	1.1057E-01	2.1	0.0079	0.0025	4.4908E+00	12.8	1.0480E-01	2.8	0.8	1296.0	134.2	1710.7	51.8
36	715	3.1765E-04	70.7	1.1309E-01	4.0	1.6280E-01	3.4	2.4159E-01	2.0	3.7995E+00	3.3	3.9372E+00	25.5	1.1309E-01	4.0	0.0059	0.0042	3.9138E+00	25.4	1.0877E-01	5.0	0.6	1466.8	271.0	1778.9	91.5
37	1301	4.9442E-04	40.8	1.1454E-01	2.8	5.9249E-02	3.8	2.7400E-01	1.5	4.7169E+00	2.8	3.0316E+00	20.4	1.1454E-01	2.8	0.0092	0.0038	3.0036E+00	20.2	1.0781E-01	4.0	0.9	1852.6	276.6	1762.8	73.0
^{206}Pb																										
11	17	0.0000E+00	0.0	1.1558E-01	10.1	9.1192E-02	11.3	1.1286E+00	9.1	3.3098E+00	17.6	1.3029E+00	83.2	1.1558E-01	10.1	0.0000	0.0000	1.3029E+00	83.2	1.1558E-01	10.1	0.0	3671.7	1415.8	1889.0	182.1
15	17	0.0000E+00	0.0	1.0439E-01	13.9	1.7215E-01	11.2	1.0834E-01	5.5	2.2064E+01	16.6	6.0219E+00	68.2	1.0439E-01	13.9	0.0000	0.0000	6.0219E+00	68.2	1.0439E-01	13.9	0.0	990.4	383.4	1703.6	256.3
21	2600	1.5321E-04	50.0	1.1058E-01	2.0	1.5475E-01	1.7	3.0801E-01	1.0	3.0639E+00	1.7	3.1375E+00	14.3	1.1058E-01	2.0	0.0029	0.0014	3.1285E+00	14.3	1.0850E-01	2.2	0.3	1788.0	198.0	1774.3	40.6
22	1370	2.5245E-04	50.0	1.1127E-01	2.5	5.3457E-02	3.5	2.6099E-01	1.3	4.7437E+00	2.4	4.0586E+00	10.8	1.1127E-01	2.5	0.0047	0.0024	4.0394E+00	10.8	1.0783E-01	3.1	0.5	1425.9	125.4	1763.1	55.9
23	1168	7.6593E-04	33.3	1.1166E-01	2.9	1.0732E-01	3.0	2.4303E-01	1.5	3.8798E+00	2.5	4.3063E+00	16.9	1.1166E-01	2.9	0.0143	0.0048	4.2446E+00	16.8	1.0114E-01	4.8	1.4	1363.7	178.9	1645.1	89.7
24	501	4.6947E-04	70.7	1.0892E-01	4.9	5.8215E-02	6.5	2.1816E-01	2.3	4.7770E+00	4.2	4.2310E+00	22.0	1.0892E-01	4.9	0.0088	0.0062	4.1938E+00	21.9	1.0248E-01	6.9	0.9	1378.6	227.4	1669.5	128.0
26	671	0.0000E+00	0.0	1.1408E-01	6.7	8.9236E-02	7.5	4.5561E-02	2.4	9.0405E+00	3.6	2.4212E+01	9.3	1.1408E-01	6.7	0.0000	0.0000	2.4212E+01	9.3	1.1408E-01	6.7	0.0	260.9	21.7	1865.3	120.9
29	24	0.0000E+00	0.0	1.3333E-01	11.9	9.6664E-02	13.8	2.5922E-01	6.5	4.5841E+00	12.0	4.9275E+00	37.7	1.3333E-01	11.9	0.0000	0.0000	4.9275E+00	37.7	1.3333E-01	11.9	0.0	1191.1	304.9	2142.3	208.0

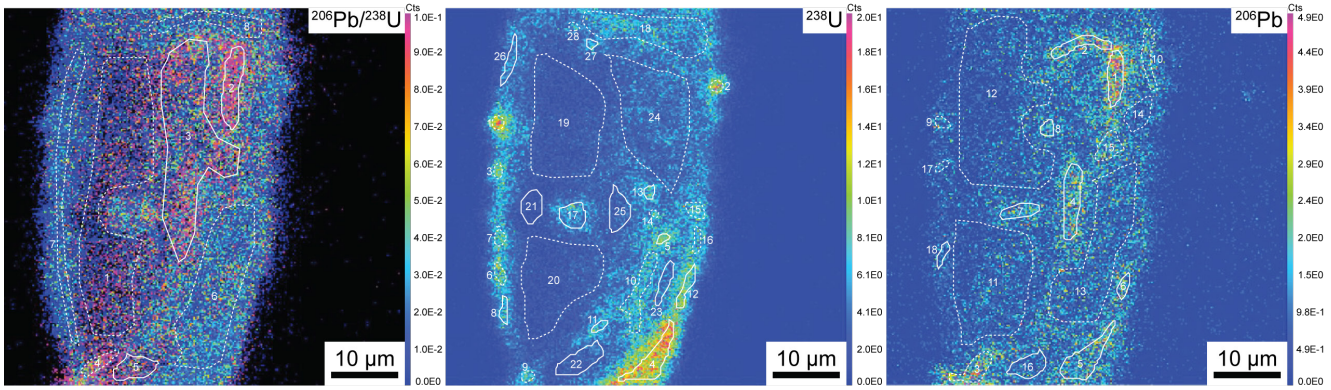
Area ID[1] corresponds to regions of interests (ROIs) used for calculation outlined in Figure above.

Measured ratios[2] are corrected fo detector gains. Uncertainties are counting statistic (Poisson) errors.

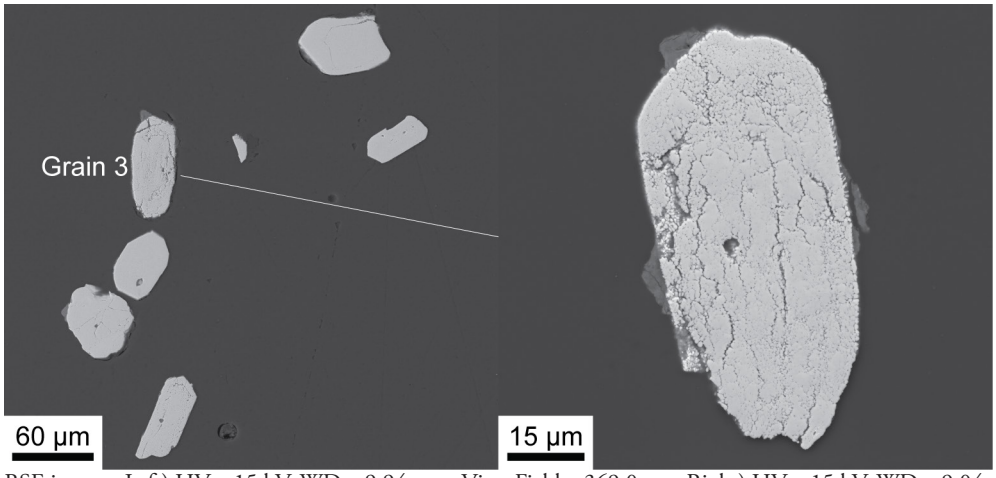
Corrected ratios[3] Values corrected for common Pb where ^{204}Pb exceeds detection limit.

^{206}Pb [%][4] Percentage of common Pb in measured ^{206}Pb, calculated from the ^{204}Pb assuming present-day Stacey & Kramers (1975) model terrestrial Pb isotope composition.

Ion image 71 grain 3



Ion imaging. Solid white lines mark the regions of interests (RIOs) where an age is calculated. Dotted white lines mark the ROIs where it was not possible to calculate an age due to common Pb content higher than 2%, and high uncertainty, i.e., absolute error higher than age value.



BSE images. Left) HV = 15 kV, WD = 9.94 mm, View Field = 369.0 µm. Right) HV = 15 kV, WD = 9.04 mm, View Field = 97.2 µm; close-up of the grain from the left image. Right image shows the grain after a further polishing to remove Au coating of the SIMS ion imaging and U-Pb spot analyses.

Area ID[1]	Area size [Pixel]	Measured ratios[2] $^{204}Pb/^{206}Pb$	±σ [%]	$^{207}Pb/^{206}Pb$	±σ [%]	$^{206}Pb/^{208}Pb$	±σ [%]	$^{206}Pb/^{238}U$	±σ [%]	Uncorrected ratios $^{238}U/^{90}Zr$	±σ [%]	$^{238}U/^{206}Pb$	±σ [%]	$^{207}Pb/^{206}Pb$	±σ [%]	Corrected ratios[3] ^{206}Pb	±σ [%]	$^{238}U/^{206}Pb$	±σ [%]	$^{207}Pb/^{206}Pb$	±σ [%]	^{206}Pb [%][4]	Age [Ma] $^{238}U/^{206}Pb$	± 1σ	$^{207}Pb/^{206}Pb$	± 1σ
$^{206}Pb/^{238}U$																										
2	538	8.0710E-04	100.0	1.0008E-01	9.4	2.0985E-01	6.8	1.0553E-01	3.6	2.5104E+00	4.2	1.0197E+01	9.3	1.0008E-01	9.4	0.0151	0.0151	1.0043E+01	18.1	8.8808E-02	17.0	1.5	603.1	49.0	1625.6	175.2
3	3863	4.7858E-04	70.7	1.0984E-01	4.9	2.2182E-01	3.6	5.8743E-02	1.8	1.8240E+00	1.5	1.7547E+01	14.0	1.0984E-01	4.9	0.0090	0.0063	1.7390E+01	17.8	1.0328E-01	7.0	0.9	357.3	42.7	1796.7	89.5
5	323	0.0000E+00	0.0	1.1930E-01	18.1	1.7895E-01	15.2	6.5755E-02	7.0	1.8924E+00	6.3	1.2703E+01	23.1	1.1930E-01	18.1	0.0000	0.0000	1.2703E+01	23.1	1.1930E-01	18.1	0.0	488.5	89.0	1945.7	324.3
^{238}U																										
4	439	0.0000E+00	0.0	6.0030E-02	16.1	1.2152E-01	11.6	1.9953E-02	4.1	7.4240E+00	3.8	5.0243E+01	11.5	6.0030E-02	16.1	0.0000	0.0000	5.0243E+01	11.5	6.0030E-02	16.1	0.0	127.0	13.0	604.6	347.9
5	34	0.0000E+00	0.0	9.3751E-02	60.4	3.1250E-01	36.2	1.7509E-02	18.6	4.5375E+00	13.5	7.0824E+01	42.3	9.3751E-02	60.4	0.0000	0.0000	7.0824E+01	42.3	9.3751E-02	60.4	0.0	90.4	26.7	1503.1	1141.1
8	66	0.0000E+00	0.0	1.4286E-01	61.7	5.2382E-01	37.2	9.4153E-03	22.4	8.0661E+00	15.6	9.6493E+01	91.4	1.4286E-01	61.7	0.0000	0.0000	9.6493E+01	91.4	1.4286E-01	61.7	0.0	66.5	31.7	2262.1	1064.8
11	47	0.0000E+00	0.0	5.3572E-02	59.3	3.9286E-01	25.2	3.3386E-02	14.6	3.0663E+00	12.1	2.6855E+01	56.7	5.3572E-02	59.3	0.0000	0.0000	2.6855E+01	56.7	5.3572E-02	59.3	0.0	235.7	84.3	353.1	1338.8
12	137	0.0000E+00	0.0	8.0645E-02	26.8	1.0215E-01	24.1	2.5696E-02	7.9	5.2810E+00	7.2	3.9471E+01	20.9	8.0645E-02	26.8	0.0000	0.0000	3.9471E+01	20.9	8.0645E-02	26.8	0.0	161.3	27.6	1212.8	528.1
13	46	0.0000E+00	0.0	2.4529E-01	31.0	3.7736E-01	26.2	3.0296E-02	14.9	4.0418E+00	13.2	4.3283E+01	32.8	2.4529E-01	31.0	0.0000	0.0000	4.3283E+01	32.8	2.4529E-01	31.0	0.0	147.2	36.1	3154.6	491.2
17	242	0.0000E+00	0.0	1.2500E-01	18.8	2.1875E-01	14.8	3.6179E-02	6.9	1.7942E+00	4.9	2.3244E+01	41.2	1.2500E-01	18.8	0.0000	0.0000	2.3244E+01	41.2	1.2500E-01	18.8	0.0	271.5	78.1	2028.8	332.0
21	234	0.0000E+00	0.0	1.0714E-01	35.1	1.3095E-01	32.1	4.7692E-02	12.4	1.7134E+00	9.6	1.9174E+01	35.6	1.0714E-01	35.1	0.0000	0.0000	1.9174E+01	35.6	1.0714E-01	35.1	0.0	327.7	84.4	1751.4	641.9
22	369	0.0000E+00	0.0	1.3937E-01	16.9	1.9513E-01	14.6	5.0255E-02	6.7	1.9270E+00	5.6	1.7151E+01	18.6	1.3937E-01	16.9	0.0000	0.0000	1.7151E+01	18.6	1.3937E-01	16.9	0.0	365.3	55.9	2219.4	292.6
23	150	0.0000E+00	0.0	1.0257E-01	30.3	1.9659E-01	22.8	3.2820E-02	10.1	2.4009E+00	7.6	3.5723E+01	19.9	1.0257E-01	30.3	0.0000	0.0000	3.5723E+01	19.9	1.0257E-01	30.3	0.0	178.0	29.2	1671.1	560.4
25	292	0.0000E+00	0.0	9.1176E-02	18.8	2.0294E-01	13.2	7.3168E-02	6.5	1.4210E+00	5.6	1.3193E+01	27.3	9.1176E-02	18.8	0.0000	0.0000	1.3193E+01	27.3	9.1176E-02	18.8	0.0	471.0	98.1	1450.3	357.1
26	146	0.0000E+00	0.0	1.3637E-01	43.5	2.0455E-01	36.6	1.2384E-02	15.6	5.9701E+00	10.9	9.1078E+01	29.9	1.3637E-01	43.5	0.0000	0.0000	9.1078E+01	29.9	1.3637E-01	43.5	0.0	70.4	16.1	2181.5	757.4
27	34	0.0000E+00	0.0	1.4286E-01	61.7	1.4286E-01	61.7	1.8482E-02	23.0	5.3999E+00	18.4	5.7803E+01	57.5	1.4286E-01	61.7	0.0000	0.0000	5.7803E+01	57.5	1.4286E-01	61.7	0.0	110.6	40.2	2262.1	1064.8
^{206}Pb																										
1	300	0.0000E+00	0.0	1.2300E-01	10.6	2.1894E-01	8.3	1.1915E-01	4.6	2.6397E+00	5.7	9.1816E+00	10.9	1.2300E-01	10.6	0.0000	0.0000	9.1816E+00	10.9	1.2300E-01	10.6	0.0	666.4	62.5	2000.2	188.3
2	236	0.0000E+00	0.0	1.0246E-01	14.9	2.2951E-01	10.5	7.8813E-02	5.5	3.4799E+00	6.6	1.3718E+01	13.8	1.0246E-01	14.9	0.0000	0.0000	1.3718E+01	13.8	1.0246E-01	14.9	0.0	453.6	53.2	1669.2	274.6
4	451	0.0000E+00	0.0	1.1851E-01	11.2	2.4101E-01	8.3	7.1143E-02	4.4	2.0348E+00	4.2	1.4834E+01	23.8	1.1851E-01	11.2	0.0000	0.0000	1.4834E+01	23.8	1.1851E-01	11.2	0.0	420.5	78.8	1933.9	200.7
5	479	0.0000E+00	0.0	5.6579E-02	15.7	1.2369E-01	10.9	2.1084E-02	3.8	7.1811E+00	3.7	4.7041E+01	12.9	5.6579E-02	15.7	0.0000	0.0000	4.7041E+01	12.9	5.6579E-02	15.7	0.0	135.6	15.3	475.2	346.8
6	84	0.0000E+00	0.0	5.5556E-02	38.8	9.5238E-02	30.2	3.0200E-02	9.7	4.8533E+00	9.2	3.9539E+01	29.2	5.5556E-02	38.8	0.0000	0.0000	3.9539E+01	29.2	5.5556E-02	38.8	0.0	161.0	36.0	434.6	864.8
7	184	0.0000E+00	0.0	1.0788E-01	20.6	2.0332E-01	15.7	4.4691E-02	7.3	1.9332E+00	5.7	1.8273E+01	34.9	1.0788E-01	20.6	0.0000	0.0000	1.8273E+01	34.9	1.0788E-01	20.6	0.0	343.5	87.0	1764.0	377.2
8	72	0.0000E+00	0.0	6.0000E-02	42.0	2.1000E-01	24.0	1.0206E-01	12.7	1.5672E+00	12.6	1.1338E+01	48.3	6.0000E-02	42.0	0.0000	0.0000	1.1338E+01	48.3	6.0000E-02	42.0	0.0	544.9	172.6	603.6	909.4
16	282	0.0000E+00	0.0	1.2315E-01	21.2	1.6749E-01	18.5	4.2316E-02	7.9	2.0462E+00	6.2	2.2079E+01	17.5	1.2315E-01	21.2	0.0000	0.0000	2.2079E+01	17.5	1.2315E-01	21.2	0.0	285.5	41.7	2002.4	376.5
18	68	0.0000E+00	0.0	1.1765E-01	43.2	4.9022E-01	24.4	1.7454E-02	14.7	6.9435E+00	12.8	3.3558E+01	95.7	1.1765E-01	43.2	0.0000	0.0000	3.3558E+01	95.7	1.1765E-01	43.2	0.0	189.3	91.9	1920.8	773.8

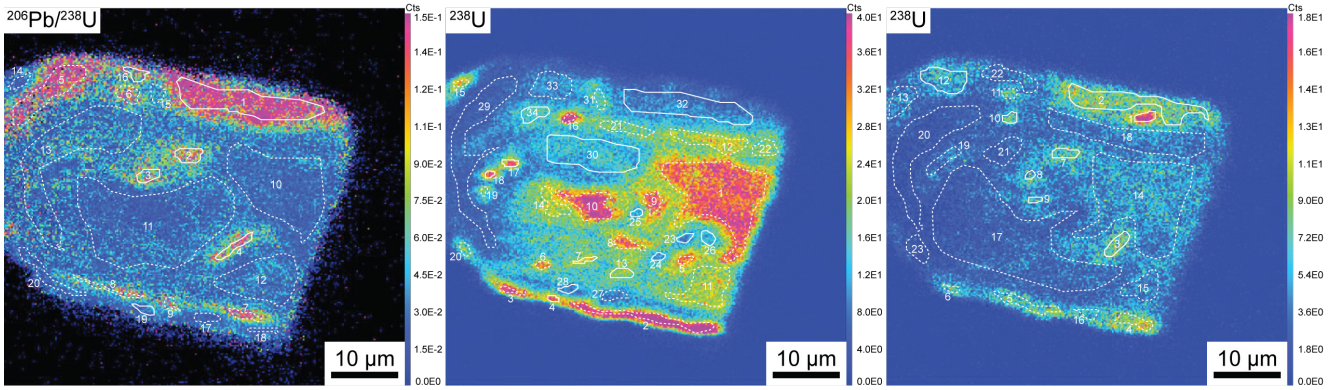
Area ID[1] corresponds to regions of interests (ROIs) used for calculation outlined in Figure above.

Measured ratios[2] are corrected fo detector gains. Uncertainties are counting statistic (Poisson) errors.

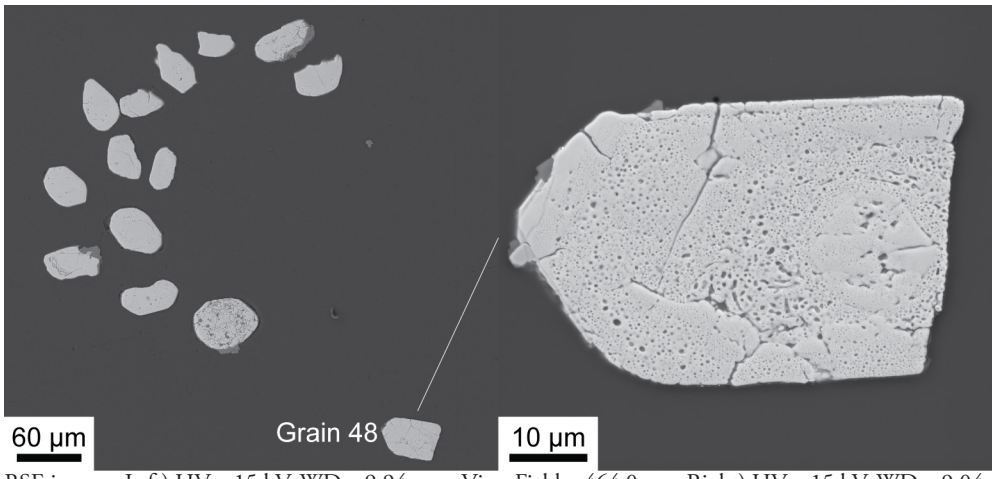
Corrected ratios[3] Values corrected for common Pb where ^{204}Pb exceeds detection limit.

^{206}Pb [%][4] Percentage of common Pb in measured ^{206}Pb, calculated from the ^{204}Pb assuming present-day Stacey & Kramers (1975) model terrestrial Pb isotope composition.

Ion image 72 grain 48



Ion imaging. Solid white lines mark the regions of interests (RIOs) where an age is calculated. Dotted white lines mark the ROIs where it was not possible to calculate an age due to common Pb content higher than 2%, and high uncertainty, i.e., absolute error higher than age value.



BSE images. Left) HV = 15 kV, WD = 9.94 mm, View Field = 464.0 µm. Right) HV = 15 kV, WD = 9.04 mm, View Field = 64.3 µm; close-up of the grain from the left image. Right image shows the grain after a further polishing to remove Au coating of the SIMS ion imaging and U-Pb spot analyses.

Area ID[1]	Area size [Pixel]	Measured ratios[2]						Uncorrected ratios										Corrected ratios[3]					Age [Ma]			
		$^{204}Pb/^{206}Pb$	±σ [%]	$^{207}Pb/^{206}Pb$	±σ [%]	$^{206}Pb/^{208}Pb$	±σ [%]	$^{206}Pb/^{238}U$	±σ [%]	$^{238}U/^{90}Zr$	±σ [%]	$^{238}U/^{206}Pb$	±σ [%]	$^{207}Pb/^{206}Pb$	±σ [%]	^{206}Pb	±σ [%]	$^{238}U/^{206}Pb$	±σ [%]	$^{207}Pb/^{206}Pb$	±σ [%]	^{206}Pb [%][4]	$^{238}U/^{206}Pb$	± 1σ	$^{207}Pb/^{206}Pb$	± 1σ
$^{206}Pb/^{238}U$																										
1	1295	3.4703E-04	50.0	9.9686E-02	3.1	3.1060E-02	5.4	1.7421E-01	1.3	5.5559E+00	2.4	6.4580E+00	7.1	9.9686E-02	3.1	0.0065	0.0032	6.4161E+00	7.3	9.4878E-02	4.2	0.6	933.7	59.6	1525.7	78.3
2	136	0.0000E+00	0.0	9.7118E-02	11.0	3.8422E-02	17.0	9.3598E-02	4.1	7.5696E+00	7.2	1.0635E+01	30.7	9.7118E-02	11.0	0.0000	0.0000	1.0635E+01	30.7	9.7118E-02	11.0	0.0	579.3	131.4	1569.5	205.7
3	97	0.0000E+00	0.0	8.8541E-02	14.6	5.7291E-02	17.9	8.8219E-02	5.2	8.0453E+00	9.1	1.0821E+01	48.0	8.8541E-02	14.6	0.0000	0.0000	1.0821E+01	48.0	8.8541E-02	14.6	0.0	569.8	179.4	1394.2	280.2
4	114	0.0000E+00	0.0	8.0136E-02	12.3	6.6592E-02	13.4	1.1146E-01	4.3	7.2658E+00	7.9	9.8289E+00	26.6	8.0136E-02	12.3	0.0000	0.0000	9.8289E+00	26.6	8.0136E-02	12.3	0.0	624.6	126.5	1200.3	243.1
16	78	0.0000E+00	0.0	7.5099E-02	23.8	1.3834E-01	18.0	6.9442E-02	7.5	6.7344E+00	11.3	1.4437E+01	47.3	7.5099E-02	23.8	0.0000	0.0000	1.4437E+01	47.3	7.5099E-02	23.8	0.0	431.7	135.5	1071.2	478.0
19	62	0.0000E+00	0.0	1.7647E-01	14.4	3.2508E-01	11.2	2.4609E-02	6.0	5.3256E+01	15.8	3.8586E+01	51.7	1.7647E-01	14.4	0.0000	0.0000	3.8586E+01	51.7	1.7647E-01	14.4	0.0	164.9	55.8	2620.0	239.1
^{238}U																										
4	22	0.0000E+00	0.0	8.9552E-02	30.1	1.1194E-01	27.2	3.0225E-02	9.4	3.6876E+01	22.7	3.5625E+01	98.6	8.9552E-02	30.1	0.0000	0.0000	3.5625E+01	98.6	8.9552E-02	30.1	0.0	178.5	88.0	1416.0	576.2
7	32	0.0000E+00	0.0	5.3571E-02	41.9	1.4286E-01	26.7	2.2654E-02	10.1	1.6785E+01	14.7	3.0224E+01	68.5	5.3571E-02	41.9	0.0000	0.0000	3.0224E+01	68.5	5.3571E-02	41.9	0.0	209.8	84.5	353.1	946.6
13	80	0.0000E+00	0.0	7.6924E-02	24.5	1.6667E-01	17.3	2.4833E-02	7.0	1.2058E+01	9.1	4.4440E+01	25.7	7.6924E-02	24.5	0.0000	0.0000	4.4440E+01	25.7	7.6924E-02	24.5	0.0	143.5	29.1	1119.2	487.9
17	34	0.0000E+00	0.0	9.0909E-02	33.0	7.2727E-02	36.6	1.6372E-02	10.0	3.3866E+01	17.7	5.2363E+01	97.3	9.0909E-02	33.0	0.0000	0.0000	5.2363E+01	97.3	9.0909E-02	33.0	0.0	121.9	59.9	1444.7	629.2
18	25	0.0000E+00	0.0	5.0000E-02	45.8	4.0000E-02	51.0	2.0225E-02	10.6	4.3290E+01	23.2	3.8849E+01	81.9	5.0000E-02	45.8	0.0000	0.0000	3.8849E+01	81.9	5.0000E-02	45.8	0.0	163.8	73.2	195.0	1065.3
23	43	0.0000E+00	0.0	7.6272E-02	20.0	6.7796E-02	21.1	1.4052E-01	7.2	5.3049E+00	12.3	8.3189E+00	23.6	7.6272E-02	20.0	0.0000	0.0000	8.3189E+00	23.6	7.6272E-02	20.0	0.0	731.8	133.3	1102.2	399.4
24	33	0.0000E+00	0.0	9.4594E-02	22.8	5.4057E-02	29.6	1.0489E-01	8.6	7.0420E+00	15.1	1.0132E+01	50.5	9.4594E-02	22.8	0.0000	0.0000	1.0132E+01	50.5	9.4594E-02	22.8	0.0	606.8	197.4	1520.0	430.5
25	35	0.0000E+00	0.0	8.3334E-02	46.5	2.0000E-01	31.6	2.2077E-02	13.7	1.7389E+01	20.2	5.2851E+01	38.4	8.3334E-02	46.5	0.0000	0.0000	5.2851E+01	38.4	8.3334E-02	46.5	0.0	120.8	33.3	1277.1	907.6
26	62	0.0000E+00	0.0	7.6272E-02	24.5	2.1187E-02	45.2	4.7983E-02	7.4	7.4379E+00	10.2	2.8006E+01	30.8	7.6272E-02	24.5	0.0000	0.0000	2.8006E+01	30.8	7.6272E-02	24.5	0.0	226.2	52.5	1102.2	489.0
28	49	0.0000E+00	0.0	8.0460E-02	27.8	5.7472E-02	32.5	5.7882E-02	8.8	9.6169E+00	14.6	1.2193E+01	59.6	8.0460E-02	27.8	0.0000	0.0000	1.2193E+01	59.6	8.0460E-02	27.8	0.0	508.1	185.1	1208.3	547.0
30	1099	4.4923E-04	70.7	8.7376E-02	5.3	6.5813E-02	6.0	5.3071E-02	1.7	8.4885E+00	2.6	1.7919E+01	20.5	8.7376E-02	5.3	0.0084	0.0059	1.7769E+01	23.0	8.1036E-02	8.0	0.8	353.0	64.4	1222.3	158.1
32	1104	4.1510E-04	50.0	1.0035E-01	3.4	3.3416E-02	5.7	1.7270E-01	1.5	5.3840E+00	2.6	6.4954E+00	8.1	1.0035E-01	3.4	0.0078	0.0039	6.4449E+00	8.4	9.4598E-02	4.7	0.8	929.8	67.5	1520.1	89.5
34	143	0.0000E+00	0.0	7.6923E-02	20.8	1.1693E-01	17.1	2.4908E-02	5.9	1.3482E+01	8.2	3.2454E+01	48.8	7.6923E-02	20.8	0.0000	0.0000	3.2454E+01	48.8	7.6923E-02	20.8	0.0	195.6	63.5	1119.2	413.9
^{206}Pb																										
1	71	0.0000E+00	0.0	9.8092E-02	9.1	2.0497E-02	19.1	2.9507E-01	4.5	6.1613E+00	9.6	4.1955E+00	34.6	9.8092E-02	9.1	0.0000	0.0000	4.1955E+00	34.6	9.8092E-02	9.1	0.0	1378.1	327.3	1588.2	169.1
2	868	2.7620E-04	70.7	1.0081E-01	3.9	3.4249E-02	6.5	1.6547E-01	1.7	5.5613E+00	3.0	6.8193E+00	7.0	1.0081E-01	3.9	0.0052	0.0037	6.7841E+00	7.4	9.6998E-02	4.9	0.5	886.4	57.4	1567.2	92.4
3	129	0.0000E+00	0.0	8.9469E-02	10.6	7.4557E-02	11.6	9.5783E-02	3.8	8.8321E+00	7.3	1.1273E+01	14.6	8.9469E-02	10.6	0.0000	0.0000	1.1273E+01	14.6	8.9469E-02	10.6	0.0	547.9	67.4	1414.2	203.7
7	87	0.0000E+00	0.0	9.5315E-02	13.6	4.2004E-02	20.0	9.7675E-02	5.1	8.1097E+00	9.3	1.0479E+01	35.8	9.5315E-02	13.6	0.0000	0.0000	1.0479E+01	35.8	9.5315E-02	13.6	0.0	587.6	149.7	1534.3	256.5
8	29	0.0000E+00	0.0	9.2591E-02	23.4	7.4073E-02	25.9	1.2389E-01	9.0	7.0734E+00	16.7	7.8342E+00	73.1	9.2591E-02	23.4	0.0000	0.0000	7.8342E+00	73.1	9.2591E-02	23.4	0.0	774.4	315.8	1479.5	443.1
9	33	0.0000E+00	0.0	1.0430E-01	25.5	1.5337E-01	21.5	1.8394E-02	8.3	2.9483E+01	14.4	7.7078E+01	56.5	1.0430E-01	25.5	0.0000	0.0000	7.7078E+01	56.5	1.0430E-01	25.5	0.0	83.1	29.9	1702.0	469.4
10	53	0.0000E+00	0.0	6.0172E-02	22.5	4.5845E-02	25.6	2.8704E-02	5.8	3.2104E+01	12.8	2.5484E+01	64.1	6.0172E-02	22.5	0.0000	0.0000	2.5484E+01	64.1	6.0172E-02	22.5	0.0	248.1	95.8	609.8	485.7
12	380	0.0000E+00	0.0	9.1503E-02	7.7	3.3685E-02	12.4	1.5526E-01	3.1	5.1230E+00	5.4	5.3904E+00	24.0	9.1503E-02	7.7	0.0000	0.0000	5.3904E+00	24.0	9.1503E-02	7.7	0.0	1097.0	198.1	1457.1	147.2

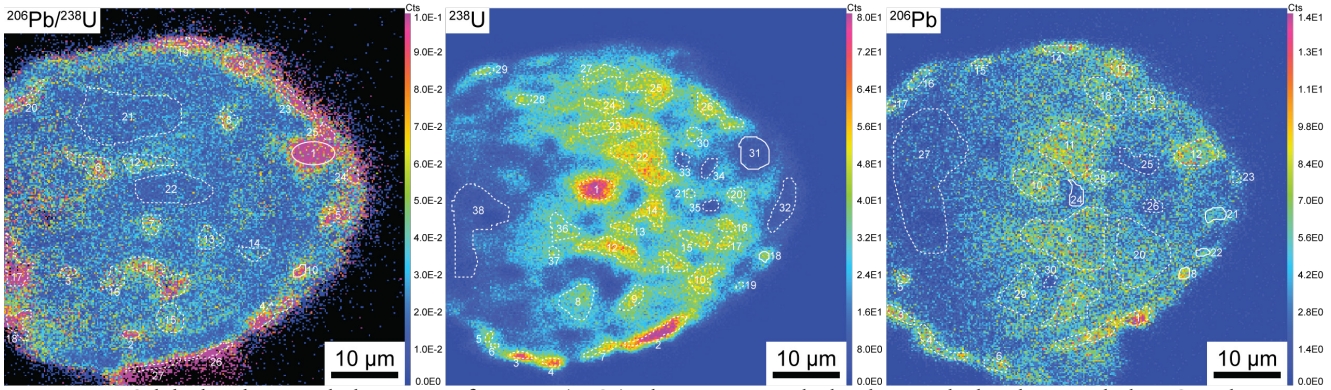
Area ID[1] corresponds to regions of interests (ROIs) used for calculation outlined in Figure above.

Measured ratios[2] are corrected fo detector gains. Uncertainties are counting statistic (Poisson) errors.

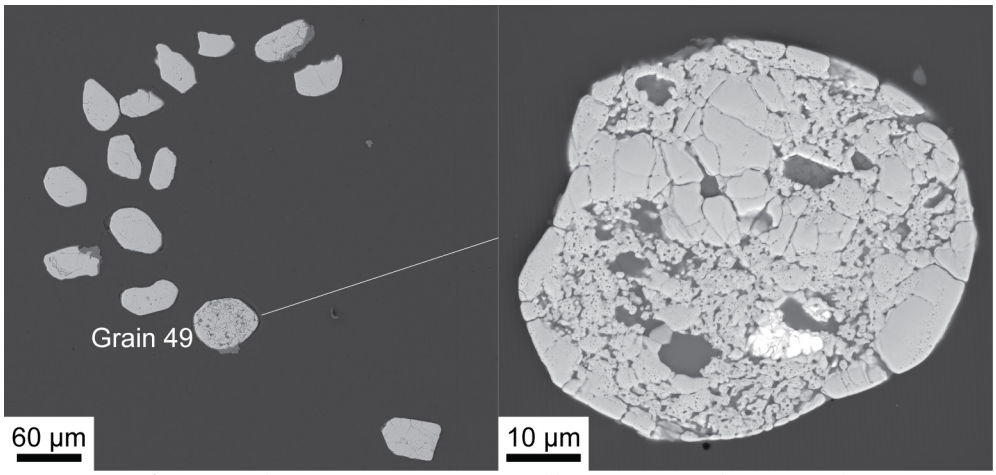
Corrected ratios[3] Values corrected for common Pb where ^{204}Pb exceeds detection limit.

^{206}Pb [%][4] Percentage of common Pb in measured ^{206}Pb, calculated from the ^{204}Pb assuming present-day Stacey & Kramers (1975) model terrestrial Pb isotope composition.

Ion image 73 grain 49



Ion imaging. Solid white lines mark the regions of interests (RIOs) where an age is calculated. Dotted white lines mark the ROIs where it was not possible to calculate an age due to common Pb content higher than 2%, and high uncertainty, i.e., absolute error higher than age value.



BSE images. Left) HV = 15 kV, WD = 9.94 mm, View Field = 464.0 µm. Right) HV = 15 kV, WD = 9.04 mm, View Field = 67.6 µm; close-up of the grain from the left image. Right image shows the grain after a further polishing to remove Au coating of the SIMS ion imaging and U-Pb spot analyses.

Area ID[1]	Area size [Pixel]	Measured ratios[2]										Uncorrected ratios						Corrected ratios[3]					Age [Ma]			
		$^{204}Pb/^{206}Pb$	±σ [%]	$^{207}Pb/^{206}Pb$	±σ [%]	$^{206}Pb/^{208}Pb$	±σ [%]	$^{206}Pb/^{238}U$	±σ [%]	$^{238}U/^{90}Zr$	±σ [%]	$^{238}U/^{206}Pb$	±σ [%]	$^{207}Pb/^{206}Pb$	±σ [%]	^{206}Pb	±σ [%]	$^{238}U/^{206}Pb$	±σ [%]	$^{207}Pb/^{206}Pb$	±σ [%]	^{206}Pb [%][4]	$^{238}U/^{206}Pb$	± 1σ	$^{207}Pb/^{206}Pb$	± 1σ
$^{206}Pb/^{238}U$																										
1	270	9.5922E-04	70.7	1.1799E-01	6.7	6.1870E-02	9.1	1.3067E-01	2.9	7.6059E+00	5.7	8.5534E+00	8.0	1.1799E-01	6.7	0.0179	0.0127	8.3999E+00	13.6	1.0488E-01	12.0	1.8	725.1	82.5	1712.1	220.5
10	49	0.0000E+00	0.0	9.0669E-02	17.9	6.9332E-02	20.3	8.7596E-02	6.4	1.2718E+01	13.9	1.3469E+01	26.9	9.0669E-02	17.9	0.0000	0.0000	1.3469E+01	26.9	9.0669E-02	17.9	0.0	461.7	95.2	1439.7	341.4
^{238}U																										
18	32	0.0000E+00	0.0	5.0633E-02	36.2	2.2152E-01	18.7	2.2375E-02	8.5	2.9368E+01	16.1	4.6506E+01	27.9	5.0633E-02	36.2	0.0000	0.0000	4.6506E+01	27.9	5.0633E-02	36.2	0.0	137.1	29.7	224.2	837.9
31	342	4.7686E-04	100.0	1.2160E-01	6.6	6.2947E-02	9.0	1.2483E-01	2.9	7.6983E+00	5.6	8.9846E+00	8.4	1.2160E-01	6.6	0.0089	0.0089	8.9045E+00	11.6	1.1518E-01	9.1	0.9	686.1	68.2	1882.7	163.3
^{206}Pb																										
8	43	0.0000E+00	0.0	1.0703E-01	17.8	7.3393E-02	21.1	8.4450E-02	6.8	1.3706E+01	15.1	1.4173E+01	22.7	1.0703E-01	17.8	0.0000	0.0000	1.4173E+01	22.7	1.0703E-01	17.8	0.0	439.5	79.2	1749.5	325.5
21	99	0.0000E+00	0.0	9.3025E-02	16.5	5.8139E-02	20.6	6.9640E-02	5.7	9.4234E+00	10.1	1.5228E+01	13.8	9.3025E-02	16.5	0.0000	0.0000	1.5228E+01	13.8	9.3025E-02	16.5	0.0	410.0	48.4	1488.4	313.0
22	34	0.0000E+00	0.0	1.3173E-01	22.7	1.6766E-01	20.4	2.6803E-02	8.3	2.3558E+01	15.4	4.2741E+01	34.1	1.3173E-01	22.7	0.0000	0.0000	4.2741E+01	34.1	1.3173E-01	22.7	0.0	149.1	37.6	2121.2	397.4
24	116	0.0000E+00	0.0	2.5641E-01	15.9	6.8206E-01	11.3	1.3799E-02	7.4	3.5084E+01	12.4	8.6672E+01	29.0	2.5641E-01	15.9	0.0000	0.0000	8.6672E+01	29.0	2.5641E-01	15.9	0.0	74.0	16.6	3224.8	250.1

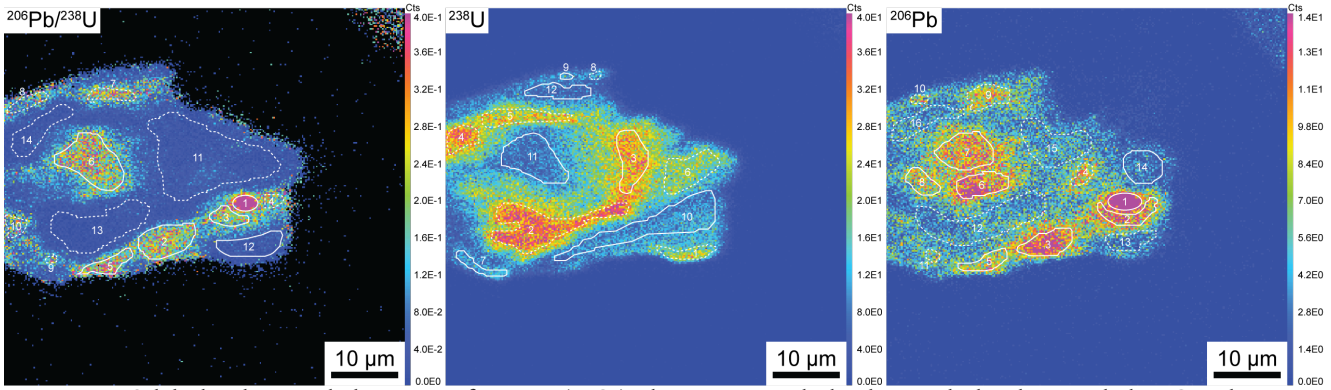
Area ID[1] corresponds to regions of interests (ROIs) used for calculation outlined in Figure above.

Measured ratios[2] are corrected fo detector gains. Uncertainties are counting statistic (Poisson) errors.

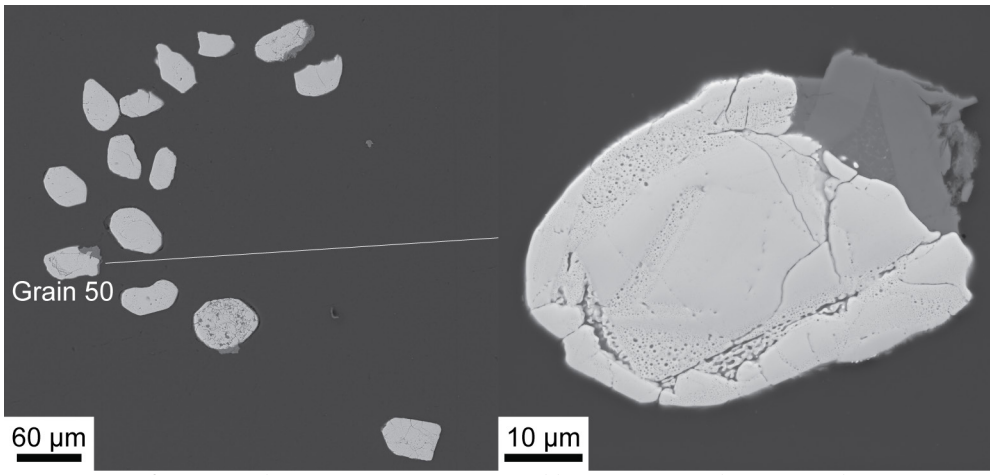
Corrected ratios[3] Values corrected for common Pb where ^{204}Pb exceeds detection limit.

^{206}Pb [%][4] Percentage of common Pb in measured ^{206}Pb, calculated from the ^{204}Pb assuming present-day Stacey & Kramers (1975) model terrestrial Pb isotope composition.

Ion image 74 grain 50



Ion imaging. Solid white lines mark the regions of interests (RIOs) where an age is calculated. Dotted white lines mark the ROIs where it was not possible to calculate an age due to common Pb content higher than 2%, and high uncertainty, i.e., absolute error higher than age value.



BSE images. Left) HV = 15 kV, WD = 9.94 mm, View Field = 464.0 µm. Right) HV = 15 kV, WD = 9.04 mm, View Field = 63.9 µm; close-up of the grain from the left image. Right image shows the grain after a further polishing to remove Au coating of the SIMS ion imaging and U-Pb spot analyses.

Area ID[1]	Area size [Pixel]	Measured ratios[2]								Uncorrected ratios							Corrected ratios[3]					Age [Ma]			
		$^{204}Pb/^{206}Pb$	±σ [%]	$^{207}Pb/^{206}Pb$	±σ [%]	$^{206}Pb/^{208}Pb$	±σ [%]	$^{206}Pb/^{238}U$	±σ [%]	$^{238}U/^{90}Zr$	±σ [%]	$^{238}U/^{206}Pb$	±σ [%]	$^{207}Pb/^{206}Pb$	±σ [%]	^{206}Pb	±σ [%]	$^{238}U/^{206}Pb$	±σ [%]	$^{207}Pb/^{206}Pb$	±σ [%]	^{206}Pb [%][4]	$^{238}U/^{206}Pb$	± 1σ	$^{207}Pb/^{206}Pb$	± 1σ
$^{206}Pb/^{238}U$																									
1	94	6.9388E-04	57.8	1.2074E-01	4.6	4.9729E-02	7.0	6.4376E-01	3.4	6.0390E+00	7.9	1.8079E+00	24.9	1.2074E-01	4.6	0.0130	0.0075	1.7844E+00	24.6	1.1134E-01	7.1	1.3	2868.3	474.3	1821.4	129.5
2	624	2.8208E-04	70.7	1.0451E-01	3.9	3.2298E-02	6.7	1.9403E-01	1.8	6.7244E+00	3.6	4.7201E+00	24.0	1.0451E-01	3.9	0.0053	0.0037	4.6952E+00	23.9	1.0063E-01	4.9	0.5	1244.7	222.2	1635.8	90.7
3	208	0.0000E+00	0.0	1.0560E-01	6.7	3.4629E-02	11.3	1.9156E-01	3.0	6.4281E+00	6.1	5.5774E+00	17.8	1.0560E-01	6.7	0.0000	0.0000	5.5774E+00	17.8	1.0560E-01	6.7	0.0	1063.1	149.9	1724.8	122.9
5	244	0.0000E+00	0.0	1.3052E-01	6.7	5.9095E-02	9.6	2.2217E-01	3.5	4.8250E+00	6.3	3.2233E+00	35.0	1.3052E-01	6.7	0.0000	0.0000	3.2233E+00	35.0	1.3052E-01	6.7	0.0	1741.9	408.7	2105.0	117.1
6	1009	3.9638E-04	50.0	1.0544E-01	3.2	2.0394E-01	2.4	2.0323E-01	1.5	5.6460E+00	2.8	4.2488E+00	27.3	1.0544E-01	3.2	0.0074	0.0037	4.2173E+00	27.2	9.9985E-02	4.4	0.7	1371.7	269.4	1623.8	81.9
12	477	7.2463E-04	100.0	1.0435E-01	8.8	8.0435E-02	9.9	3.1725E-02	2.9	1.3133E+01	4.4	3.4777E+01	14.4	1.0435E-01	8.8	0.0136	0.0136	3.4305E+01	49.9	9.4301E-02	14.7	1.4	185.2	61.0	1514.1	277.7
^{238}U																									
3	570	3.4059E-04	100.0	8.0722E-02	6.8	2.1458E-01	4.4	3.0438E-02	2.0	1.8486E+01	3.5	3.2510E+01	22.5	8.0722E-02	6.8	0.0064	0.0064	3.2303E+01	30.5	7.5882E-02	9.7	0.6	196.5	45.4	1092.0	194.2
7	166	0.0000E+00	0.0	8.2126E-02	14.6	4.6699E-02	19.0	5.9190E-02	4.7	9.9168E+00	7.9	1.8091E+01	61.6	8.2126E-02	14.6	0.0000	0.0000	1.8091E+01	61.6	8.2126E-02	14.6	0.0	346.8	130.0	1248.5	285.2
9	27	0.0000E+00	0.0	1.3699E-01	33.7	3.2877E-01	23.5	4.3991E-02	13.2	1.4529E+01	23.7	2.2933E+01	59.0	1.3699E-01	33.7	0.0000	0.0000	2.2933E+01	59.0	1.3699E-01	33.7	0.0	275.1	100.7	2189.4	586.3
10	1337	5.2309E-04	35.4	1.0534E-01	2.6	4.0671E-02	4.1	1.9303E-01	1.2	6.9625E+00	2.5	5.3859E+00	10.0	1.0534E-01	2.6	0.0098	0.0035	5.3332E+00	10.1	9.8123E-02	3.9	1.0	1107.8	93.7	1588.8	72.6
11	893	4.5650E-04	50.0	1.0739E-01	3.4	2.0874E-01	2.6	1.9756E-01	1.6	5.7866E+00	3.0	4.5613E+00	28.4	1.0739E-01	3.4	0.0085	0.0043	4.5224E+00	28.2	1.0112E-01	4.8	0.9	1287.8	262.0	1644.8	89.8
12	319	9.1406E-04	70.7	1.0512E-01	6.9	4.2047E-02	10.6	1.6880E-01	3.0	6.7382E+00	6.0	5.5866E+00	26.7	1.0512E-01	6.9	0.0171	0.0121	5.4911E+00	27.1	9.2413E-02	12.9	1.7	1078.5	215.4	1475.9	244.1
^{206}Pb																									
1	150	7.0539E-04	50.0	1.2310E-01	4.0	5.0789E-02	6.0	5.1008E-01	2.7	6.3333E+00	6.3	2.2642E+00	20.09	1.2310E-01	4.0	0.0132	0.0066	2.2343E+00	19.9	1.1357E-01	6.2	1.3	2384.4	339.4	1857.3	111.3
2	295	3.2019E-04	100.0	9.8621E-02	6.0	3.8744E-02	9.3	1.6937E-01	2.5	6.5127E+00	4.9	6.1804E+00	15.13	9.8621E-02	6.0	0.0060	0.0060	6.1434E+00	15.5	9.4181E-02	7.9	0.6	972.2	122.2	1511.7	149.0
3	432	3.7756E-04	70.7	1.0307E-01	4.5	3.1904E-02	7.8	2.1174E-01	2.1	6.4322E+00	4.2	4.2537E+00	25.21	1.0307E-01	4.5	0.0071	0.0050	4.2236E+00	25.1	9.7865E-02	6.1	0.7	1369.8	252.7	1583.8	114.1
5	242	0.0000E+00	0.0	1.1559E-01	7.3	6.2158E-02	9.6	1.8115E-01	3.4	5.5584E+00	6.2	4.7112E+00	35.54	1.1559E-01	7.3	0.0000	0.0000	4.7112E+00	35.5	1.1559E-01	7.3	0.0	1240.8	303.0	1889.1	130.5
6	430	1.8743E-04	100.0	9.7092E-02	4.6	1.9250E-01	3.4	1.5693E-01	1.9	8.3166E+00	4.1	6.2461E+00	33.20	9.7092E-02	4.6	0.0035	0.0035	6.2242E+00	33.2	9.4494E-02	5.5	0.4	960.5	226.1	1518.0	103.6
7	692	2.9607E-04	70.7	1.0437E-01	4.0	1.9733E-01	3.0	2.0726E-01	1.8	5.7192E+00	3.5	3.9780E+00	36.42	1.0437E-01	4.0	0.0055	0.0039	3.9560E+00	36.3	1.0029E-01	5.1	0.6	1452.8	355.7	1629.5	94.0
8	252	0.0000E+00	0.0	9.2986E-02	7.8	1.8909E-01	5.7	7.9458E-02	2.8	7.8714E+00	4.7	1.5171E+01	75.14	9.2986E-02	7.8	0.0000	0.0000	1.5171E+01	75.1	9.2986E-02	7.8	0.0	411.5	173.3	1487.6	147.9
14	455	8.1366E-04	100.0	7.6485E-02	10.7	6.0212E-02	12.0	2.4995E-02	3.1	1.4401E+01	4.3	4.5041E+01	9.91	7.6485E-02	10.7	0.0152	0.0152	4.4356E+01	70.3	6.4754E-02	22.7	1.5	143.7	58.9	766.3	477.6

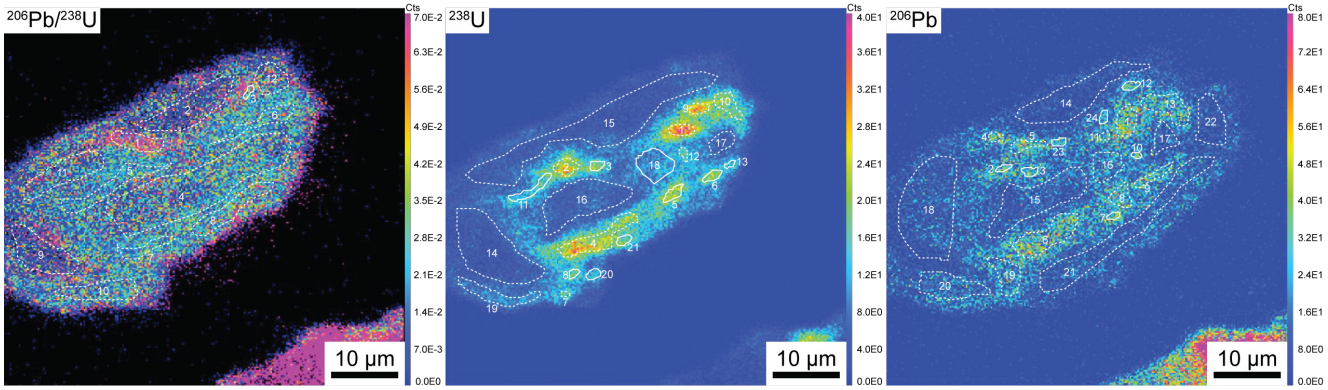
Area ID[1] corresponds to regions of interests (ROIs) used for calculation outlined in Figure above.

Measured ratios[2] are corrected fo detector gains. Uncertainties are counting statistic (Poisson) errors.

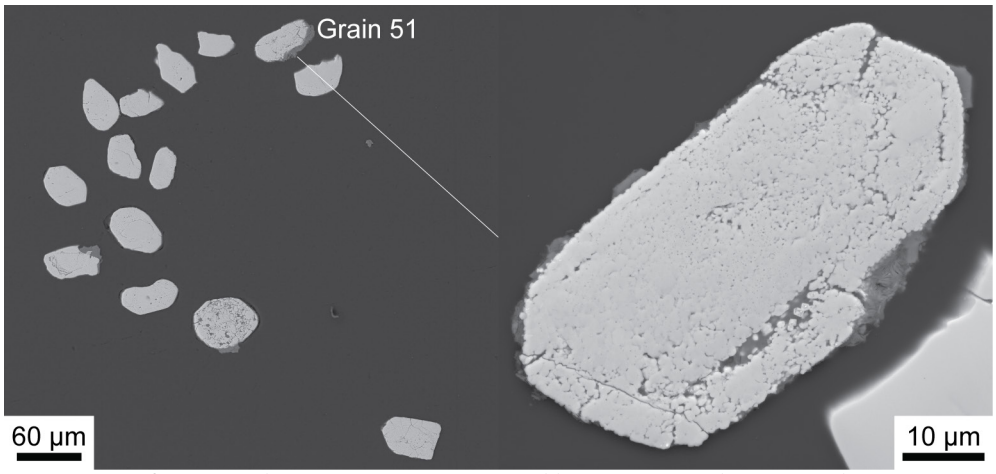
Corrected ratios[3] Values corrected for common Pb where ^{204}Pb exceeds detection limit.

^{206}Pb [%][4] Percentage of common Pb in measured ^{206}Pb, calculated from the ^{204}Pb assuming present-day Stacey & Kramers (1975) model terrestrial Pb isotope composition.

Ion image 75 grain 51



Ion imaging. Solid white lines mark the regions of interests (RIOs) where an age is calculated. Dotted white lines mark the ROIs where it was not possible to calculate an age due to common Pb content higher than 2%, and high uncertainty, i.e., absolute error higher than age value.



BSE images. Left) HV = 15 kV, WD = 9.94 mm, View Field = 464.0 µm. Right) HV = 15 kV, WD = 9.04 mm, View Field = 61.0 µm; close-up of the grain from the left image. Right image shows the grain after a further polishing to remove Au coating of the SIMS ion imaging and U-Pb spot analyses.

Area ID[1]	Area size [Pixel]	Measured ratios[2]						Uncorrected ratios								Corrected ratios[3]					Age [Ma]			
		$^{204}Pb/^{206}Pb$	±σ [%]	$^{207}Pb/^{206}Pb$	±σ [%]	$^{206}Pb/^{208}Pb$	±σ [%]	$^{206}Pb/^{238}U$	±σ [%]	$^{238}U/^{90}Zr$	±σ [%]	$^{238}U/^{206}Pb$	±σ [%]	$^{207}Pb/^{206}Pb$	±σ [%]	^{206}Pb	±σ [%]	$^{238}U/^{206}Pb$	±σ [%]	$^{207}Pb/^{206}Pb$	±σ [%]	^{206}Pb [%][4]	$^{238}U/^{206}Pb$	± 1σ	$^{207}Pb/^{206}Pb$	± 1σ
$^{206}Pb/^{238}U$																										
3	**26**	**0.0000E+00**	**0.0**	**1.5152E-01**	**33.9**	**2.4242E-01**	**27.9**	**8.6450E-02**	**15.2**	**3.1751E+00**	**18.1**	**1.3730E+01**	**34.8**	**1.5152E-01**	**33.9**	**0.0000**	**0.0000**	**1.3730E+01**	**34.8**	**1.5152E-01**	**33.9**	**0.0**	**453.2**	**114.0**	**2363.1**	**579.2**
^{238}U																										
3	**48**	**0.0000E+00**	**0.0**	**8.7302E-02**	**31.4**	**1.2698E-01**	**26.5**	**2.2652E-02**	**9.5**	**1.7459E+01**	**14.1**	**4.9120E+01**	**38.4**	**8.7302E-02**	**31.4**	**0.0000**	**0.0000**	**4.9120E+01**	**38.4**	**8.7302E-02**	**31.4**	**0.0**	**129.9**	**35.8**	**1367.2**	**605.3**
5	**75**	**0.0000E+00**	**0.0**	**1.0909E-01**	**21.5**	**1.6818E-01**	**17.8**	**2.2681E-02**	**7.2**	**1.6299E+01**	**10.4**	**5.0493E+01**	**28.3**	**1.0909E-01**	**21.5**	**0.0000**	**0.0000**	**5.0493E+01**	**28.3**	**1.0909E-01**	**21.5**	**0.0**	**126.4**	**27.7**	**1784.3**	**391.9**
6	**61**	**0.0000E+00**	**0.0**	**4.1916E-02**	**38.6**	**1.4970E-01**	**21.4**	**2.4384E-02**	**8.3**	**1.3404E+01**	**11.2**	**4.3446E+01**	**17.7**	**4.1916E-02**	**38.6**	**0.0000**	**0.0000**	**4.3446E+01**	**17.7**	**4.1916E-02**	**38.6**	**0.0**	**146.7**	**21.9**	**-231.6**	**972.7**
8	**34**	**0.0000E+00**	**0.0**	**8.9745E-02**	**39.5**	**1.7949E-01**	**29.0**	**2.3978E-02**	**12.1**	**8.7277E+00**	**13.4**	**5.1613E+01**	**60.4**	**8.9745E-02**	**39.5**	**0.0000**	**0.0000**	**5.1613E+01**	**60.4**	**8.9745E-02**	**39.5**	**0.0**	**123.7**	**46.3**	**1420.1**	**754.2**
11	**134**	**0.0000E+00**	**0.0**	**1.0606E-01**	**23.0**	**1.6667E-01**	**18.8**	**1.7240E-02**	**7.5**	**1.6759E+01**	**9.6**	**6.2703E+01**	**50.7**	**1.0606E-01**	**23.0**	**0.0000**	**0.0000**	**6.2703E+01**	**50.7**	**1.0606E-01**	**23.0**	**0.0**	**102.0**	**34.1**	**1732.8**	**421.0**
13	**21**	**0.0000E+00**	**0.0**	**1.7073E-01**	**40.9**	**2.4391E-01**	**35.3**	**2.3925E-02**	**16.7**	**1.2395E+01**	**21.7**	**6.6548E+01**	**52.0**	**1.7073E-01**	**40.9**	**0.0000**	**0.0000**	**6.6548E+01**	**52.0**	**1.7073E-01**	**40.9**	**0.0**	**96.1**	**32.8**	**2564.8**	**684.1**
18	**369**	**0.0000E+00**	**0.0**	**1.3533E-01**	**12.1**	**4.0422E-01**	**7.8**	**2.6629E-02**	**4.5**	**6.1499E+00**	**4.5**	**4.2082E+01**	**15.3**	**1.3533E-01**	**12.1**	**0.0000**	**0.0000**	**4.2082E+01**	**15.3**	**1.3533E-01**	**12.1**	**0.0**	**151.4**	**19.9**	**2168.2**	**211.6**
20	**48**	**0.0000E+00**	**0.0**	**1.3433E-01**	**35.5**	**4.9254E-01**	**21.3**	**1.9687E-02**	**12.9**	**9.1313E+00**	**13.4**	**4.4742E+01**	**51.0**	**1.3433E-01**	**35.5**	**0.0000**	**0.0000**	**4.4742E+01**	**51.0**	**1.3433E-01**	**35.5**	**0.0**	**142.5**	**47.8**	**2155.3**	**619.6**
21	**47**	**0.0000E+00**	**0.0**	**1.2281E-01**	**28.3**	**2.0176E-01**	**22.9**	**2.5180E-02**	**10.1**	**1.0042E+01**	**12.1**	**4.3506E+01**	**50.1**	**1.2281E-01**	**28.3**	**0.0000**	**0.0000**	**4.3506E+01**	**50.1**	**1.2281E-01**	**28.3**	**0.0**	**146.5**	**48.5**	**1997.4**	**503.2**
^{206}Pb																										
2	**37**	**0.0000E+00**	**0.0**	**4.7619E-02**	**41.8**	**1.2698E-01**	**26.5**	**2.0785E-02**	**9.4**	**2.5859E+01**	**16.3**	**3.5446E+01**	**80.0**	**4.7619E-02**	**41.8**	**0.0000**	**0.0000**	**3.5446E+01**	**80.0**	**4.7619E-02**	**41.8**	**0.0**	**179.3**	**79.1**	**80.4**	**992.2**
3	**46**	**0.0000E+00**	**0.0**	**4.4643E-02**	**45.7**	**9.8215E-02**	**31.6**	**2.8970E-02**	**10.2**	**1.1484E+01**	**13.9**	**3.5219E+01**	**61.5**	**4.4643E-02**	**45.7**	**0.0000**	**0.0000**	**3.5219E+01**	**61.5**	**4.4643E-02**	**45.7**	**0.0**	**180.5**	**68.1**	**-75.1**	**1117.8**
7	**32**	**0.0000E+00**	**0.0**	**1.8269E-01**	**25.0**	**4.4231E-01**	**17.7**	**5.0428E-02**	**11.2**	**7.0018E+00**	**15.3**	**2.0823E+01**	**52.9**	**1.8269E-01**	**25.0**	**0.0000**	**0.0000**	**2.0823E+01**	**52.9**	**1.8269E-01**	**25.0**	**0.0**	**302.4**	**103.1**	**2677.5**	**412.8**
10	**21**	**0.0000E+00**	**0.0**	**1.9355E-01**	**31.5**	**4.1935E-01**	**23.4**	**4.6451E-02**	**14.4**	**7.9302E+00**	**20.0**	**2.2111E+01**	**37.4**	**1.9355E-01**	**31.5**	**0.0000**	**0.0000**	**2.2111E+01**	**37.4**	**1.9355E-01**	**31.5**	**0.0**	**285.1**	**76.4**	**2772.5**	**517.3**
12	**49**	**0.0000E+00**	**0.0**	**1.1565E-01**	**25.6**	**1.7007E-01**	**21.6**	**7.6415E-02**	**10.0**	**6.0381E+00**	**14.8**	**1.6428E+01**	**23.0**	**1.1565E-01**	**25.6**	**0.0000**	**0.0000**	**1.6428E+01**	**23.0**	**1.1565E-01**	**25.6**	**0.0**	**380.9**	**69.5**	**1890.0**	**461.0**
23	**39**	**0.0000E+00**	**0.0**	**1.8269E-01**	**25.0**	**3.4615E-01**	**19.3**	**6.0914E-02**	**11.5**	**5.9173E+00**	**15.6**	**1.8582E+01**	**37.8**	**1.8269E-01**	**25.0**	**0.0000**	**0.0000**	**1.8582E+01**	**37.8**	**1.8269E-01**	**25.0**	**0.0**	**337.9**	**91.0**	**2677.4**	**412.8**
24	**37**	**0.0000E+00**	**0.0**	**6.0241E-02**	**46.0**	**1.8072E-01**	**28.1**	**3.2329E-02**	**12.0**	**7.1182E+00**	**13.8**	**3.1162E+01**	**28.9**	**6.0241E-02**	**46.0**	**0.0000**	**0.0000**	**3.1162E+01**	**28.9**	**6.0241E-02**	**46.0**	**0.0**	**203.6**	**45.1**	**612.2**	**995.0**

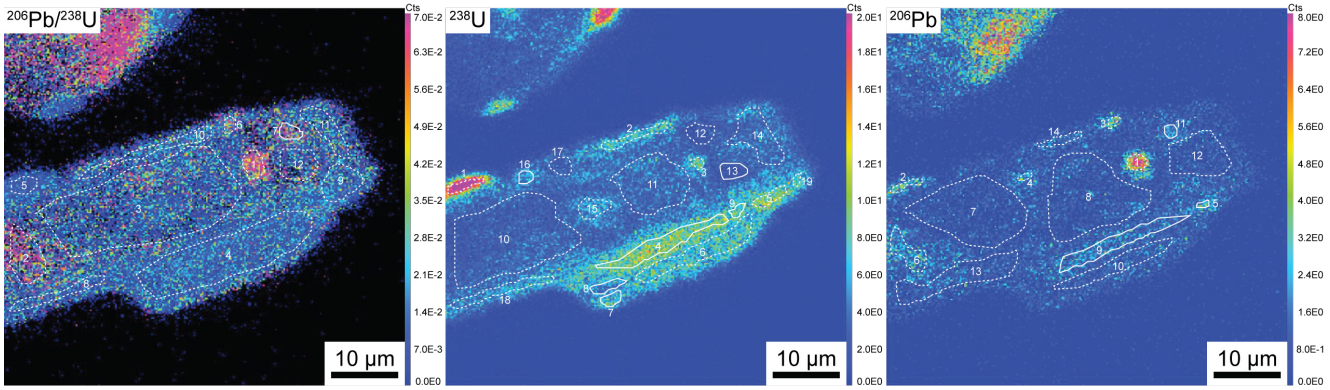
Area ID[1] corresponds to regions of interests (ROIs) used for calculation outlined in Figure above.

Measured ratios[2] are corrected fo detector gains. Uncertainties are counting statistic (Poisson) errors.

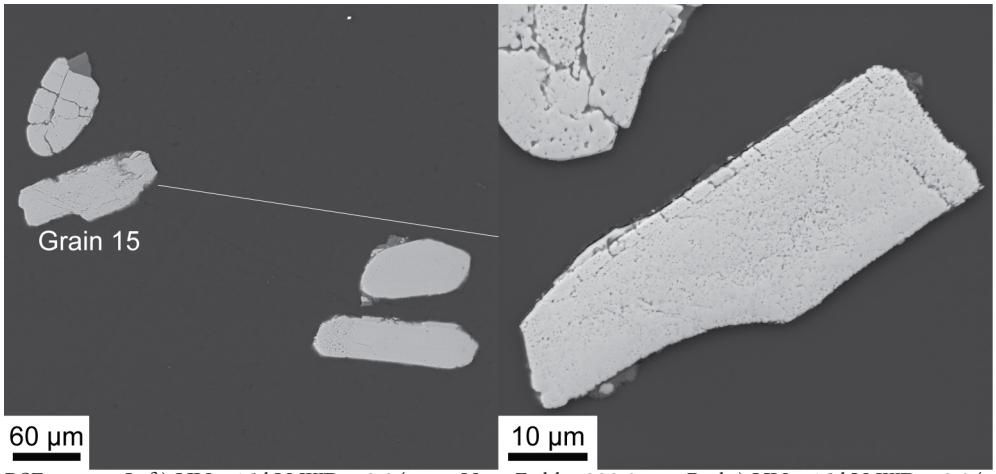
Corrected ratios[3] Values corrected for common Pb where ^{204}Pb exceeds detection limit.

^{206}Pb [%][4] Percentage of common Pb in measured ^{206}Pb, calculated from the ^{204}Pb assuming present-day Stacey & Kramers (1975) model terrestrial Pb isotope composition.

Ion image 76 grain 15



Ion imaging. Solid white lines mark the regions of interests (RIOs) where an age is calculated. Dotted white lines mark the ROIs where it was not possible to calculate an age due to common Pb content higher than 2%, and high uncertainty, i.e., absolute error higher than age value.



BSE images. Left) HV = 15 kV, WD = 9.94 mm, View Field = 222.0 µm. Right) HV = 15 kV, WD = 9.04 mm, View Field = 62.7 µm; close-up of the grain from the left image. Right image shows the grain after a further polishing to remove Au coating of the SIMS ion imaging and U-Pb spot analyses.

Area ID[1]	Area size [Pixel]	Measured ratios[2]								Uncorrected ratios								Corrected ratios[3]					Age [Ma]			
		$^{204}Pb/^{206}Pb$	±σ [%]	$^{207}Pb/^{206}Pb$	±σ [%]	$^{206}Pb/^{208}Pb$	±σ [%]	$^{206}Pb/^{238}U$	±σ [%]	$^{238}U/^{90}Zr$	±σ [%]	$^{238}U/^{206}Pb$	±σ [%]	$^{207}Pb/^{206}Pb$	±σ [%]	^{206}Pb	±σ [%]	$^{238}U/^{206}Pb$	±σ [%]	$^{207}Pb/^{206}Pb$	±σ [%]	^{206}Pb [%][4]	$^{238}U/^{206}Pb$	± 1σ	$^{207}Pb/^{206}Pb$	± 1σ
$^{206}Pb/^{238}U$																										
7	111	0.0000E+00	0.0	1.7544E-01	19.8	3.6257E-01	14.8	9.9808E-02	9.7	2.3172E+00	10.8	1.1989E+01	15.4	1.7544E-01	19.8	0.0000	0.0000	1.1989E+01	15.4	1.7544E-01	19.8	0.0	516.4	66.7	2610.2	329.5
^{238}U																										
4	644	0.0000E+00	0.0	8.7720E-02	11.3	4.2106E-01	5.9	2.6617E-02	3.5	5.3878E+00	3.3	4.0559E+01	9.9	8.7720E-02	11.3	0.0000	0.0000	4.0559E+01	9.9	8.7720E-02	11.3	0.0	157.0	14.0	1376.3	217.5
7	90	0.0000E+00	0.0	2.0001E-01	31.6	7.0001E-01	20.1	1.6945E-02	13.6	4.4625E+00	9.6	4.9483E+01	38.0	2.0001E-01	31.6	0.0000	0.0000	4.9483E+01	38.0	2.0001E-01	31.6	0.0	129.0	35.3	2826.3	516.1
8	113	0.0000E+00	0.0	8.7510E-02	39.4	4.1250E-01	20.7	2.6561E-02	12.0	3.1512E+00	9.1	3.8815E+01	39.5	8.7510E-02	39.4	0.0000	0.0000	3.8815E+01	39.5	8.7510E-02	39.4	0.0	164.0	46.0	1371.8	758.4
9	52	0.0000E+00	0.0	9.8362E-02	42.8	5.0820E-01	22.1	2.6017E-02	13.8	3.8236E+00	11.1	4.4473E+01	23.5	9.8362E-02	42.8	0.0000	0.0000	4.4473E+01	23.5	9.8362E-02	42.8	0.0	143.3	27.1	1593.3	799.1
13	156	0.0000E+00	0.0	2.7660E-01	22.2	8.5107E-01	15.2	6.2797E-02	12.1	1.7915E+00	10.6	1.9063E+01	23.6	2.7660E-01	22.2	0.0000	0.0000	1.9063E+01	23.6	2.7660E-01	22.2	0.0	329.6	61.6	3343.8	346.5
16	63	0.0000E+00	0.0	1.0526E-01	52.6	6.5790E-01	25.8	2.0861E-02	17.2	5.8275E+00	15.0	4.6673E+01	60.4	1.0526E-01	52.6	0.0000	0.0000	4.6673E+01	60.4	1.0526E-01	52.6	0.0	136.7	51.1	1718.9	966.1
^{206}Pb																										
5	29	0.0000E+00	0.0	1.4706E-01	33.9	4.5588E-01	21.7	3.8468E-02	13.5	5.5480E+00	14.9	3.4983E+01	33.1	1.4706E-01	33.9	0.0000	0.0000	3.4983E+01	33.1	1.4706E-01	33.9	0.0	181.7	44.7	2312.0	581.2
9	680	0.0000E+00	0.0	8.7539E-02	11.3	4.6447E-01	5.7	2.6036E-02	3.5	5.2308E+00	3.2	4.2389E+01	7.3	8.7539E-02	11.3	0.0000	0.0000	4.2389E+01	7.3	8.7539E-02	11.3	0.0	150.3	10.1	1372.4	217.6
11	61	0.0000E+00	0.0	1.6000E-01	26.9	3.8000E-01	19.1	1.1472E-01	13.0	2.3017E+00	15.1	1.0458E+01	18.4	1.6000E-01	26.9	0.0000	0.0000	1.0458E+01	18.4	1.6000E-01	26.9	0.0	588.7	88.1	2455.7	455.3

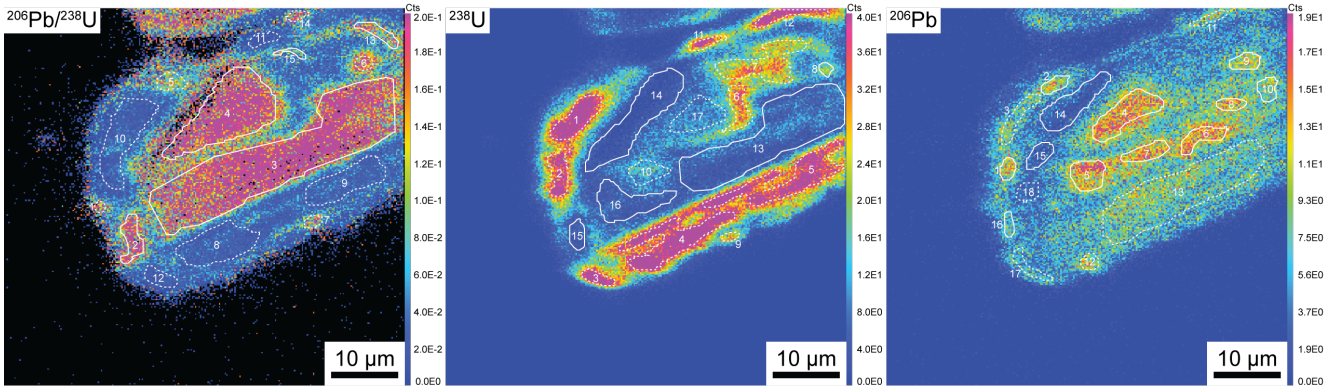
Area ID[1] corresponds to regions of interests (ROIs) used for calculation outlined in Figure above.

Measured ratios[2] are corrected fo detector gains. Uncertainties are counting statistic (Poisson) errors.

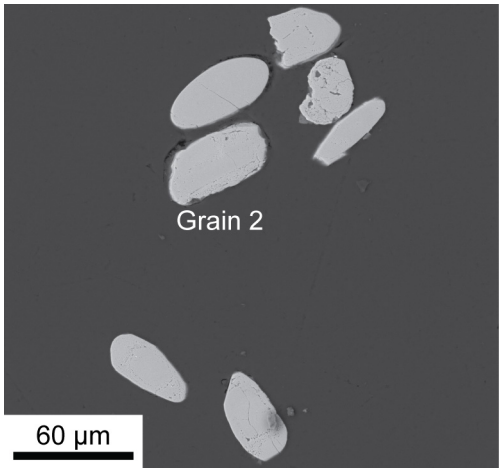
Corrected ratios[3] Values corrected for common Pb where ^{204}Pb exceeds detection limit.

^{206}Pb [%][4] Percentage of common Pb in measured ^{206}Pb, calculated from the ^{204}Pb assuming present-day Stacey & Kramers (1975) model terrestrial Pb isotope composition.

Ion image 77 grain 2



Ion imaging. Solid white lines mark the regions of interests (RIOs) where an age is calculated. Dotted white lines mark the ROIs where it was not possible to calculate an age due to common Pb content higher than 2%, and high uncertainty, i.e., absolute error higher than age value.



BSE images. HV = 15 kV, WD = 9.04 mm, View Field = 251.0 µm; close-up of the grain from the left image. Right image shows the grain after a further polishing to remove Au coating of the SIMS ion imaging and U-Pb spot analyses.

Area ID[1]	Area size [Pixel]	Measured ratios[2]						Uncorrected ratios									Corrected ratios[3]					Age [Ma]			
		$^{204}Pb/^{206}Pb$	±σ [%]	$^{207}Pb/^{206}Pb$	±σ [%]	$^{206}Pb/^{208}Pb$	±σ [%]	$^{206}Pb/^{238}U$	±σ [%]	$^{238}U/^{90}Zr$	±σ [%]	$^{238}U/^{206}Pb$	±σ [%]	$^{207}Pb/^{206}Pb$	±σ [%]	^{206}Pb	±σ [%]	$^{238}U/^{206}Pb$	±σ [%]	$^{207}Pb/^{206}Pb$	±σ [%]	^{206}Pb [%][4]	$^{238}U/^{206}Pb$	± 1σ	$^{207}Pb/^{206}Pb$	± 1σ
$^{206}Pb/^{238}U$																										
2	275	0.0000E+00	0.0	1.1815E-01	7.9	1.8416E-01	6.5	1.9475E-01	3.8	3.6454E+00	6.0	4.4599E+00	45.1	1.1815E-01	7.9	0.0000	0.0000	4.4599E+00	45.1	1.1815E-01	7.9	0.0	1304.1	377.8	1928.5	141.5
3	5684	3.0204E-04	25.8	1.1071E-01	1.4	2.1634E-01	1.1	2.3604E-01	0.7	3.8592E+00	1.2	4.7100E+00	4.5	1.1071E-01	1.4	0.0056	0.0015	4.6834E+00	4.6	1.0659E-01	1.8	0.6	1247.5	49.7	1741.9	32.9
4	2151	5.8073E-04	30.2	1.0881E-01	2.3	3.7220E-02	3.8	2.4146E-01	1.1	5.0055E+00	2.2	4.5456E+00	6.9	1.0881E-01	2.3	0.0109	0.0033	4.4963E+00	7.0	1.0083E-01	3.5	1.1	1294.6	76.8	1639.4	65.3
13	185	1.0183E-03	100.1	1.0794E-01	10.2	1.1711E-01	9.9	1.1134E-01	4.1	8.1964E+00	7.9	1.0226E+01	29.4	1.0794E-01	10.2	0.0190	0.0191	1.0031E+01	35.0	9.3814E-02	19.7	1.9	612.6	153.3	1504.4	372.6
15	58	0.0000E+00	0.0	8.3032E-02	21.7	7.5812E-02	22.6	6.6571E-02	7.1	1.0332E+01	12.8	1.7397E+01	28.7	8.3032E-02	21.7	0.0000	0.0000	1.7397E+01	28.7	8.3032E-02	21.7	0.0	360.3	78.7	1270.0	423.5
^{238}U																										
8	58	0.0000E+00	0.0	1.1846E-01	16.1	1.4325E-01	14.8	5.6681E-02	6.1	1.6911E+01	13.0	2.0427E+01	31.6	1.1846E-01	16.1	0.0000	0.0000	2.0427E+01	31.6	1.1846E-01	16.1	0.0	308.1	72.6	1933.1	288.8
13	3086	2.4658E-04	37.8	1.1258E-01	1.9	2.3083E-01	1.4	2.6877E-01	1.0	3.4157E+00	1.6	4.1866E+00	5.4	1.1258E-01	1.9	0.0046	0.0017	4.1673E+00	5.4	1.0923E-01	2.3	0.5	1386.5	64.2	1786.6	41.2
14	1398	0.0000E+00	0.0	1.1225E-01	4.3	5.4360E-02	6.0	2.2172E-01	2.1	2.7344E+00	3.0	4.7136E+00	12.2	1.1225E-01	4.3	0.0000	0.0000	4.7136E+00	12.2	1.1225E-01	4.3	0.0	1240.3	123.8	1836.1	77.7
15	152	0.0000E+00	0.0	1.2300E-01	10.6	1.8327E-01	8.9	2.1032E-01	5.3	3.2809E+00	8.2	4.4128E+00	52.2	1.2300E-01	10.6	0.0000	0.0000	4.4128E+00	52.2	1.2300E-01	10.6	0.0	1316.7	422.2	2000.2	188.3
16	728	0.0000E+00	0.0	1.0970E-01	5.2	1.7223E-01	4.3	1.8596E-01	2.4	4.5257E+00	4.1	5.5482E+00	17.8	1.0970E-01	5.2	0.0000	0.0000	5.5482E+00	17.8	1.0970E-01	5.2	0.0	1068.3	150.5	1794.4	94.3
^{206}Pb																										
1	113	8.4671E-04	100.0	9.8219E-02	9.7	7.1124E-02	11.3	5.1724E-02	3.3	1.3913E+01	6.3	1.8338E+01	38.7	9.8219E-02	9.7	0.0158	0.0158	1.8048E+01	48.2	8.6354E-02	18.1	1.6	347.6	111.0	1346.1	349.6
2	137	7.5243E-04	100.0	1.3318E-01	8.0	9.3302E-02	9.4	9.0542E-02	3.4	1.7196E+01	8.6	1.1392E+01	18.4	1.3318E-01	8.0	0.0141	0.0141	1.1232E+01	24.4	1.2316E-01	12.1	1.4	549.8	104.1	2002.5	215.5
4	719	5.3054E-04	44.7	1.1035E-01	3.3	3.1302E-02	5.9	2.6796E-01	1.7	6.5371E+00	3.6	4.2386E+00	5.2	1.1035E-01	3.3	0.0099	0.0044	4.1965E+00	5.5	1.0309E-01	4.8	1.0	1377.8	64.8	1680.4	88.3
5	364	0.0000E+00	0.0	1.0703E-01	4.6	2.2339E-01	3.3	2.0698E-01	2.1	4.4250E+00	3.7	5.3530E+00	20.8	1.0703E-01	4.6	0.0000	0.0000	5.3530E+00	20.8	1.0703E-01	4.6	0.0	1104.1	177.4	1749.5	83.8
6	269	2.6616E-04	100.0	9.9811E-02	5.4	2.9225E-01	3.4	3.0738E-01	2.8	4.3634E+00	5.1	3.8127E+00	8.8	9.9811E-02	5.4	0.0050	0.0050	3.7937E+00	8.9	9.6130E-02	6.9	0.5	1508.2	111.3	1550.3	128.7
7	251	0.0000E+00	0.0	1.1299E-01	5.6	2.9514E-01	3.7	2.8299E-01	2.9	4.6838E+00	5.5	4.0341E+00	8.3	1.1299E-01	5.6	0.0000	0.0000	4.0341E+00	8.3	1.1299E-01	5.6	0.0	1427.6	98.6	1848.0	100.4
8	120	0.0000E+00	0.0	1.1088E-01	8.3	2.1205E-01	6.3	3.0732E-01	4.4	4.7628E+00	8.6	3.4995E+00	12.3	1.1088E-01	8.3	0.0000	0.0000	3.4995E+00	12.3	1.1088E-01	8.3	0.0	1620.3	158.6	1813.8	151.3
9	174	5.7305E-04	100.0	1.0258E-01	7.8	4.8137E-02	11.2	1.5258E-01	3.3	7.1793E+00	6.6	7.4161E+00	22.9	1.0258E-01	7.8	0.0107	0.0107	7.3366E+00	24.1	9.4636E-02	12.1	1.1	823.7	151.8	1520.8	229.0
10	156	0.0000E+00	0.0	1.0648E-01	8.9	1.8827E-01	7.0	1.9043E-01	4.1	4.6591E+00	7.1	6.3867E+00	27.7	1.0648E-01	8.9	0.0000	0.0000	6.3867E+00	27.7	1.0648E-01	8.9	0.0	937.7	192.0	1740.0	164.0
14	694	0.0000E+00	0.0	1.0932E-01	8.3	5.1643E-02	11.7	8.2609E-02	3.2	4.1876E+00	4.2	1.2351E+01	15.9	1.0932E-01	8.3	0.0000	0.0000	1.2351E+01	15.9	1.0932E-01	8.3	0.0	501.9	66.7	1788.2	150.3
15	195	0.0000E+00	0.0	1.2874E-01	14.2	6.6667E-02	19.2	1.3014E-01	6.4	3.2140E+00	8.7	7.8328E+00	26.3	1.2874E-01	14.2	0.0000	0.0000	7.8328E+00	26.3	1.2874E-01	14.2	0.0	774.6	153.7	2080.8	249.9
16	82	0.0000E+00	0.0	9.8880E-02	14.4	1.8097E-01	11.0	1.5724E-01	6.0	4.6865E+00	10.0	5.6498E+00	73.3	9.8880E-02	14.4	0.0000	0.0000	5.6498E+00	73.3	9.8880E-02	14.4	0.0	1050.5	423.5	1603.1	268.6

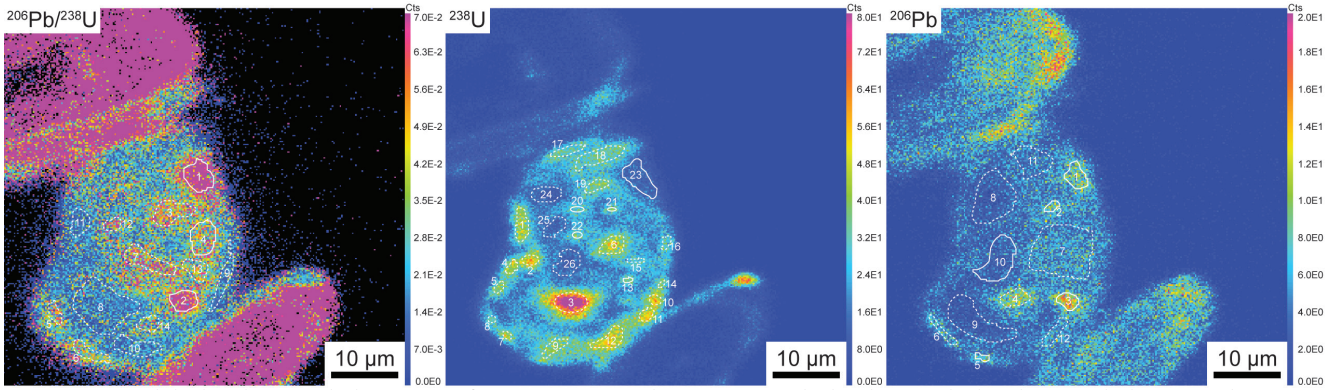
Area ID[1] corresponds to regions of interests (ROIs) used for calculation outlined in Figure above.

Measured ratios[2] are corrected fo detector gains. Uncertainties are counting statistic (Poisson) errors.

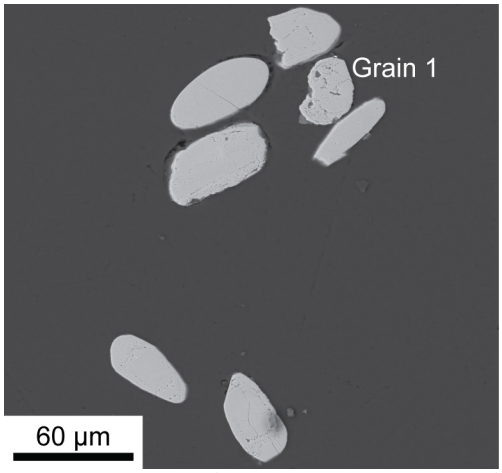
Corrected ratios[3] Values corrected for common Pb where ^{204}Pb exceeds detection limit.

^{206}Pb [%][4] Percentage of common Pb in measured ^{206}Pb, calculated from the ^{204}Pb assuming present-day Stacey & Kramers (1975) model terrestrial Pb isotope composition.

Ion image 78 grain 1



Ion imaging. Solid white lines mark the regions of interests (RIOs) where an age is calculated. Dotted white lines mark the ROIs where it was not possible to calculate an age due to common Pb content higher than 2%, and high uncertainty, i.e., absolute error higher than age value.



BSE images. HV = 15 kV, WD = 9.04 mm, View Field = 251.0 µm; close-up of the grain from the left image. Right image shows the grain after a further polishing to remove Au coating of the SIMS ion imaging and U-Pb spot analyses.

Area ID[1]	Area size [Pixel]	Measured ratios[2]										Uncorrected ratios						Corrected ratios[3]					Age [Ma]			
		$^{204}Pb/^{206}Pb$	±σ [%]	$^{207}Pb/^{206}Pb$	±σ [%]	$^{206}Pb/^{208}Pb$	±σ [%]	$^{206}Pb/^{238}U$	±σ [%]	$^{238}U/^{90}Zr$	±σ [%]	$^{238}U/^{206}Pb$	±σ [%]	$^{207}Pb/^{206}Pb$	±σ [%]	^{206}Pb	±σ [%]	$^{238}U/^{206}Pb$	±σ [%]	$^{207}Pb/^{206}Pb$	±σ [%]	^{206}Pb [%][4]	$^{238}U/^{206}Pb$	± 1σ	$^{207}Pb/^{206}Pb$	± 1σ
$^{206}Pb/^{238}U$																										
1	292	4.5330E-04	100.0	1.0063E-01	7.0	5.6210E-02	9.2	9.9565E-02	2.7	7.6628E+00	4.8	1.0851E+01	23.53	1.0063E-01	7.0	0.0085	0.0085	1.0759E+01	25.1	9.4348E-02	10.2	0.8	573.0	111.0	1515.1	191.8
2	194	4.9552E-04	100.0	8.6718E-02	7.9	2.0119E-01	5.4	7.9159E-02	2.7	1.2328E+01	5.6	1.2523E+01	29.48	8.6718E-02	7.9	0.0093	0.0093	1.2407E+01	31.5	7.9712E-02	12.5	0.9	499.7	116.1	1189.9	245.9
4	298	7.0521E-04	100.0	7.4048E-02	10.1	2.5529E-01	5.9	3.8267E-02	3.0	1.0949E+01	4.4	2.5803E+01	16.81	7.4048E-02	10.1	0.0132	0.0132	2.5462E+01	38.3	6.3868E-02	20.2	1.3	248.3	67.8	737.3	428.1
^{238}U																										
13	16	0.0000E+00	0.0	1.9512E-01	27.3	2.0731E-01	26.6	2.4347E-02	11.8	1.7509E+01	18.2	6.0335E+01	79.5	1.9512E-01	27.3	0.0000	0.0000	6.0335E+01	79.5	1.9512E-01	27.3	0.0	106.0	46.7	2785.8	447.7
20	10	0.0000E+00	0.0	1.4000E-01	28.5	4.9000E-01	17.4	2.2377E-02	10.6	3.0976E+01	20.7	3.6654E+01	94.0	1.4000E-01	28.5	0.0000	0.0000	3.6654E+01	94.0	1.4000E-01	28.5	0.0	173.5	83.5	2227.2	494.2
21	4	0.0000E+00	0.0	9.0089E-02	33.0	2.1622E-01	22.5	3.6251E-02	10.5	2.3154E+01	21.8	2.6997E+01	83.5	9.0089E-02	33.0	0.0000	0.0000	2.6997E+01	83.5	9.0089E-02	33.0	0.0	234.5	105.6	1427.4	630.5
22	11	0.0000E+00	0.0	1.3095E-01	32.1	6.0717E-01	17.8	1.9424E-02	11.5	1.8447E+01	16.4	5.5467E+01	75.0	1.3095E-01	32.1	0.0000	0.0000	5.5467E+01	75.0	1.3095E-01	32.1	0.0	115.2	49.1	2110.8	562.4
23	293	4.5640E-04	100.0	9.5845E-02	7.2	5.5682E-02	9.3	9.7511E-02	2.7	7.7389E+00	4.8	1.1258E+01	20.9	9.5845E-02	7.2	0.0085	0.0085	1.1162E+01	22.9	8.9476E-02	10.6	0.9	553.1	99.6	1414.4	203.6
^{206}Pb																										
1	170	0.0000E+00	0.0	9.2685E-02	9.2	5.2860E-02	12.0	1.0426E-01	3.4	7.4696E+00	6.2	1.0639E+01	30.8	9.2685E-02	9.2	0.0000	0.0000	1.0639E+01	30.8	9.2685E-02	9.2	0.0	579.1	131.7	1481.5	175.1
2	44	0.0000E+00	0.0	9.0140E-02	18.5	2.3944E-01	12.1	4.4078E-02	6.0	2.0934E+01	12.8	2.6661E+01	47.5	9.0140E-02	18.5	0.0000	0.0000	2.6661E+01	47.5	9.0140E-02	18.5	0.0	237.4	75.5	1428.5	352.4
3	113	7.2990E-04	100.0	8.1020E-02	9.9	1.9562E-01	6.7	8.1794E-02	3.3	1.2274E+01	6.9	1.2316E+01	24.1	8.1020E-02	9.9	0.0137	0.0137	1.2148E+01	29.2	7.0576E-02	19.1	1.4	509.9	111.9	945.2	390.5
5	33	0.0000E+00	0.0	1.6736E-01	17.1	1.0042E+00	9.1	3.6489E-02	7.1	4.1909E+01	19.8	2.7218E+01	84.0	1.6736E-01	17.1	0.0000	0.0000	2.7218E+01	84.0	1.6736E-01	17.1	0.0	232.6	105.1	2531.4	286.6
10	469	7.5585E-04	100.0	9.5995E-02	9.3	3.0915E-01	5.7	2.8109E-02	3.0	1.4159E+01	4.4	2.6421E+01	41.3	9.5995E-02	9.3	0.0141	0.0141	2.6048E+01	55.7	8.5389E-02	16.6	1.4	242.9	85.8	1324.4	321.6

Area ID[1] corresponds to regions of interests (ROIs) used for calculation outlined in Figure above.

Measured ratios[2] are corrected fo detector gains. Uncertainties are counting statistic (Poisson) errors.

Corrected ratios[3] Values corrected for common Pb where ^{204}Pb exceeds detection limit.

^{206}Pb [%][4] Percentage of common Pb in measured ^{206}Pb, calculated from the ^{204}Pb assuming present-day Stacey & Kramers (1975) model terrestrial Pb isotope composition.