

Table DR1. U-Pb isotopic data

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Fraction	Weight ( $\mu\text{g}$ )	Concentrations				Isotopic ratios										Ages (Ma)			
		U (ppm)	Pb (ppm)	Th U	Pb <sub>c</sub> (pg)	$^{206}\text{Pb}$ $^{204}\text{Pb}$	$^{208}\text{Pb}$ $^{206}\text{Pb}$	$^{206}\text{Pb}$ $^{238}\text{U}$	$^{207}\text{Pb}$ $^{235}\text{U}$	$^{207}\text{Pb}$ $^{206}\text{Pb}$	corr. coef.	$^{206}\text{Pb}$ $^{238}\text{U}$	$^{207}\text{Pb}$ $^{235}\text{U}$	$^{207}\text{Pb}$ $^{206}\text{Pb}$	% disc.				
		(a) z6	(b) 10.7	(c) 87.7	(d) 15.9	(e) 0.22	(f) 1.1	(g) 10401.3	(h) 0.068	(i) 0.184	(j) .07	(k) 1.9370	(l) .14	(m) 0.0764	(n) .12	(o) 0.520	(p) <b>1088.5</b>	(q) <b>1094.0</b>	(r) <b>1104.8</b>
z27	0.5	154.3	28.9	0.48	1.3	743.8	0.149	0.178	.28	1.8551	.34	0.0756	.18	0.845	<b>1055.4</b>	<b>1065.2</b>	<b>1085.5</b>	2.78	
z7	3.0	159.5	27.5	0.54	1.2	4153.7	0.171	0.161	.10	1.6039	.23	0.0722	.21	0.419	<b>962.9</b>	<b>971.7</b>	<b>991.7</b>	2.90	
z30	0.4	294.3	34.3	0.78	1.7	482.5	0.243	0.104	.43	0.8725	.57	0.0609	.36	0.783	<b>637.1</b>	<b>636.9</b>	<b>636.3</b>	-0.11	
z28	0.4	363.1	41.7	0.73	1.7	560.1	0.226	0.104	.39	0.8708	.64	0.0609	.47	0.675	<b>635.8</b>	<b>636.0</b>	<b>636.7</b>	0.13	
z31	0.8	153.1	18.4	0.92	1.0	848.4	0.286	0.104	.26	0.8702	.56	0.0609	.46	0.574	<b>635.5</b>	<b>635.7</b>	<b>636.3</b>	0.14	
z19	0.6	313.4	37.0	0.84	0.5	2362.6	0.262	0.104	.12	0.8701	.17	0.0609	.11	0.744	<b>635.3</b>	<b>635.6</b>	<b>636.7</b>	0.23	
z32	0.7	260.0	30.5	0.81	1.2	993.0	0.253	0.104	.22	0.8698	.32	0.0609	.22	0.717	<b>635.7</b>	<b>635.5</b>	<b>634.8</b>	-0.14	
z22	0.1	544.9	65.6	0.94	1.5	365.7	0.292	0.103	.57	0.8669	.69	0.0608	.37	0.846	<b>634.2</b>	<b>633.9</b>	<b>632.7</b>	-0.24	
z18	0.2	379.5	46.9	1.07	0.6	736.5	0.335	0.103	.31	0.8627	.49	0.0608	.35	0.695	<b>631.1</b>	<b>631.6</b>	<b>633.3</b>	0.36	
z20	0.2	509.6	57.4	0.71	1.0	725.6	0.221	0.102	.34	0.8545	.56	0.0607	.42	0.672	<b>626.7</b>	<b>627.1</b>	<b>628.6</b>	0.30	
z1	1.3	261.4	30.4	0.87	1.1	2091.1	0.277	0.101	.12	0.8485	.16	0.0609	.11	0.753	<b>620.6</b>	<b>623.8</b>	<b>635.3</b>	2.31	
z4	0.9	354.0	39.1	0.68	1.5	1329.8	0.221	0.100	.22	0.8407	.40	0.0610	.32	0.600	<b>614.4</b>	<b>619.5</b>	<b>638.3</b>	3.75	
z10	1.6	152.67	18.1	0.99	1.2	1395.4	0.317	0.100	.17	0.8404	.40	0.0609	.34	0.532	<b>615.3</b>	<b>619.4</b>	<b>634.4</b>	3.02	
z8	1.2	155.16	18.1	0.94	1.2	1024.6	0.303	0.100	.31	0.8355	.35	0.0608	.16	0.889	<b>612.0</b>	<b>616.7</b>	<b>633.9</b>	3.45	
z9	1.5	285.93	30.8	0.62	1.1	2449.7	0.200	0.099	.14	0.8338	.22	0.0609	.16	0.695	<b>610.7</b>	<b>615.7</b>	<b>634.1</b>	3.70	
z14	1.2	138.24	16.1	0.94	1.7	632.6	0.302	0.099	.35	0.8321	.51	0.0608	.35	0.726	<b>610.5</b>	<b>614.8</b>	<b>630.5</b>	3.18	

(a) Fractions are composed of single zircon (z) grains.

(b) Sample weights are estimated to within 40% using measured grain dimensions and density.

(c) Model Th/U ratio calculated from radiogenic  $^{208}\text{Pb}/^{206}\text{Pb}$  ratio and  $^{207}\text{Pb}/^{206}\text{Pb}$  age.

(d) Total weight of common Pb (all of which is assigned to procedural blank).

(e) Measured ratio corrected for spike and fractionation only. Mass fractionation correction of  $0.20\%/\text{amu} \pm 0.04\%/\text{amu}$  (atomic mass unit) was applied to single-collector Daly analyses (based on daily analysis of NBS-981).(f) Corrected for fractionation, spike, and blank. All common Pb in the analyses was assigned as laboratory blank with a measured composition of  $^{206}\text{Pb}/^{204}\text{Pb} = 19.10 \pm 0.05$ ,  $^{207}\text{Pb}/^{204}\text{Pb} = 15.71 \pm 0.05$ ,  $^{208}\text{Pb}/^{204}\text{Pb} = 38.65 \pm 0.05$  (2 sigma). U blanks were  $<0.1\text{ pg}$ .

(g) Errors are 2 sigma, propagated using the algorithms of Ludwig (1980).

(h) Age calculations are based on the decay constants of Steiger and Jäger (1977); error in the  $^{207}\text{Pb}/^{206}\text{Pb}$  age reported at 2 sigma.(i) % discordance =  $100 - (100 \times (\text{206Pb}/^{238}\text{U age}) / (\text{207Pb}/^{206}\text{Pb age}))$ .