

Supplementary Data Table 1. Ar-Ar analytical data of the Sample G2, Bufa Formation (ignimbrite).

Long. W Lat. N
20.9864° 101.2498°

Sample G2. Laser step-heating experiments with feldspar concentrate

Pwr	$^{39}\text{Ar} \times 10^{-6}$	% ^{39}Ar	$^{40}\text{Ar}^*/^{39}\text{Ar}_K$	1 σ	Age (Ma)	1 σ		% $^{40}\text{Ar}^*$	$^{40}\text{Ar}/^{36}\text{Ar}$	$^{37}\text{Ar}_{Ca}/^{39}\text{Ar}_K$
1.00	26.291	11.69	5.42	0.36	33.03	2.17	a	35.90	461.03	0.381
2.50	48.879	21.73	4.92	0.23	30.03	1.39	b	77.10	1290.47	0.822
4.00	20.820	9.25	5.47	0.59	33.33	3.54	c	95.67	6825.13	1.681
6.00	23.898	10.62	5.14	0.53	31.36	3.18	d	91.86	3630.94	1.810
11.00	31.793	14.13	5.79	0.50	35.24	3.03	e	96.78	9190.78	1.752
13.00	73.351	32.59	5.35	0.13	32.58	0.79	f	87.02	2277.36	1.956
0.81	18.034	5.16	6.01	0.87	36.56	5.22	g	36.40	464.63	0.950
1.50	58.663	16.79	5.67	0.21	34.50	1.25	h	93.56	4584.98	1.417
2.15	48.326	13.83	5.49	0.21	33.42	1.29	i	97.25	10747.01	1.749
2.50	38.471	11.01	5.39	0.31	32.83	1.86	j	93.37	4459.36	1.948
4.00	38.403	10.99	5.51	0.19	33.55	1.14	k	95.85	7124.14	1.748
6.00	24.975	7.15	6.15	0.40	37.43	2.42	l	99.79	140952.81	1.721
9.80	22.208	6.36	5.55	0.44	33.80	2.67	m	88.22	2508.25	1.799
12.00	2.862	0.82	----	----	----	----	n ‡	----	----	----
13.00	97.476	27.89	5.40	0.12	32.87	0.73	o	84.52	1908.95	2.017

Integrated results

$^{39}\text{Ar} \times 10^{-6}$	$^{40}\text{Ar}^*/^{39}\text{Ar}_K$	1 σ	Age (Ma)	1 σ	% $^{40}\text{Ar}^*$	$^{40}\text{Ar}/^{36}\text{Ar}$	$^{37}\text{Ar}_{Ca}/^{39}\text{Ar}_K$
224.8	5.32	0.13	32.39	0.81	74.62	1164.51	1.456
349.0	5.53	0.10	33.67	0.60	84.41	1895.45	1.738

CIC 71 RIII $J = 0.003408 \pm 0.000016$

$t_p = 33.53 \pm 0.48$ Ma; weighted mean of fractions g to m and o, representing 99.18% of ^{39}Ar released in 8 fractions, MSWD = 0.64

$t_c = 33.00 \pm 0.46$ Ma; $(^{40}\text{Ar}/^{36}\text{Ar})_i = 297 \pm 11$, MSWD = 0.95 for n = 14

‡ fraction ignored in the isochron given in the figure

Note: The integrated results for the second experiment are given for comparison. It is necessary to take in account that these results are not accurate since for fraction 'n' was very close in size to the blank, therefore for this fraction mass 36 is not reliable and no age information can be reported. However, since this is a very small fraction with only ~0.82% of the ^{39}Ar released, it has very little effect in the integrated results.

Supplementary Data Table 2. Ar-Ar analytical data of the Sample G5, Calderones Formation (ignimbrite)

Long. W Lat. N
20.9837° 101.2414°

Sample G5. Laser step-heating experiments with plagioclase concentrate

Pwr	$^{39}\text{Ar} \times 10^{-6}$	% ^{39}Ar	$^{40}\text{Ar}^*/^{39}\text{Ar}_K$	1 σ	Age (Ma)	1 σ			% $^{40}\text{Ar}^*$	$^{40}\text{Ar}/^{36}\text{Ar}$	$^{37}\text{Ar}_{Ca}/^{39}\text{Ar}_K$
0.40	3.485	0.31	-2.84	7.32	-18.69	48.38	a	‡	-4.93	281.61	0.023
1.40	5.794	0.52	-5.33	5.57	-35.22	37.15	b	‡	-1.72	290.51	0.140
2.20	11.279	1.01	10.54	2.93	67.70	18.47	c		15.84	351.13	0.175
5.20	24.334	2.18	4.41	0.59	28.65	3.78	d		24.46	391.20	0.809
7.80	178.322	15.98	4.51	0.13	29.27	0.84	e		62.80	794.39	0.907
10.80	51.489	4.62	4.93	0.22	31.97	1.42	f		93.04	4246.68	1.050
11.00	397.833	35.66	4.82	0.05	31.28	0.32	g		88.26	2516.89	0.939
11.50	134.235	12.03	4.84	0.09	31.39	0.60	h		91.26	3381.94	1.229
12.20	308.872	27.68	4.65	0.03	30.15	0.22	i		87.66	2394.80	1.110
1.50	102.918	3.90	7.06	0.55	45.61	3.48	j		13.41	341.26	0.360
6.00	1014.918	38.45	5.13	0.06	33.27	0.40	k		76.10	1236.34	0.612
8.00	387.801	14.69	4.80	0.04	31.16	0.23	l		86.57	2200.73	0.576
10.50	249.733	9.46	5.34	0.13	34.63	0.85	m	‡	96.06	7496.46	0.621
11.00	335.659	12.71	4.87	0.04	31.58	0.29	n		81.42	1590.05	0.855
11.50	548.629	20.78	5.00	0.07	32.45	0.45	o		89.53	2823.08	0.919

Integrated results

$^{39}\text{Ar} \times 10^{-6}$	$^{40}\text{Ar}^*/^{39}\text{Ar}_K$	1 σ	Age (Ma)	1 σ	% $^{40}\text{Ar}^*$	$^{40}\text{Ar}/^{36}\text{Ar}$	$^{37}\text{Ar}_{Ca}/^{39}\text{Ar}_K$
1115.0	4.70	0.06	30.51	0.41	56.62	681.19	1.004
2638.0	5.12	0.04	33.19	0.28	64.72	837.53	0.692

CIC 71 B $J = 0.003627 \pm 0.000012$

$t_p = 31.33 \pm 0.29$ Ma; weighted mean of fractions f to h representing 52.31% of ^{39}Ar released in 3 consecutive fractions, MSWD = 0.13

$t_c = 30.88 \pm 0.35$ Ma; $(^{40}\text{Ar}/^{36}\text{Ar})_i = 313 \pm 8$, MSWD = 6 for n = 12

‡ fraction ignored in the isochron given in the figure.

Supplementary Data Table 3. Zircon U/Pb ICPMS Laser Ablation analytical data of the dated samples.

SAMPLE	CORRECTED RATIOS												CORRECTED AGES									
	U	Th	T/U	²⁰⁷ Pb/ ²⁰⁶ Pb	±1σ	²⁰⁷ Pb/ ²³⁵ U	±1σ	²⁰⁶ Pb/ ²³⁸ U	±1σ	²⁰⁸ Pb/ ²³² Th	±1σ	Rho	²⁰⁸ Pb/ ²³² Th	±1σ	²⁰⁶ Pb/ ²³⁸ U	±1σ	²⁰⁷ Pb/ ²³⁵ U	±1σ	²⁰⁷ Pb/ ²⁰⁶ Pb	±1σ	Best Age	±1σ
G-1																						
Zircon_G01-32_043_045	1352	690	0.47	0.04706	0.00141	0.03604	0.00126	0.0055	0.0001	0.00194	0.00006	0.5	39.0	1.0	35.4	0.6	36	1	52	64	35.4	0.6
Zircon_G01-24_033_035	639	479	0.69	0.04769	0.00138	0.03451	0.00107	0.0053	0.00006	0.00176	0.00004	0.4	35.5	0.8	33.9	0.4	34	1	84	68	33.9	0.4
Zircon_G01-3_008_010	307	126	0.38	0.05199	0.00259	0.03778	0.00206	0.0053	0.00007	0.00166	0.00002	0.3	33.4	0.4	33.9	0.4	38	2	285	120	33.9	0.4
Zircon_G01-13_020_022	322	82	0.24	0.04694	0.00159	0.03314	0.00125	0.0051	0.00006	0.00163	0.00007	0.3	33.0	2.0	32.9	0.4	33	1	46	75	32.9	0.4
Zircon_G01-14_021_023	362	128	0.33	0.04875	0.00210	0.03438	0.00151	0.0051	0.00005	0.00183	0.00007	0.2	37.0	1.0	32.9	0.3	34	1	136	103	32.9	0.3
Zircon_G01-20_028_030	317	150	0.44	0.04775	0.00193	0.03365	0.00155	0.0051	0.00007	0.00162	0.00004	0.3	32.8	0.7	32.9	0.4	34	2	87	94	32.9	0.4
Zircon_G01-36_048_050	222	122	0.51	0.04721	0.00362	0.03329	0.00273	0.0051	0.00007	0.00163	0.00008	0.3	33.0	2.0	32.9	0.5	33	3	60	171	32.9	0.5
Zircon_G01-40_052_054	620	323	0.48	0.04936	0.00123	0.03497	0.00093	0.0051	0.00005	0.00167	0.00004	0.4	33.7	0.8	32.9	0.3	35	0.9	165	59	32.9	0.3
Zircon_G01-17_025_027	423	214	0.47	0.05207	0.00198	0.03636	0.00143	0.0051	0.00005	0.00167	0.00004	0.3	33.7	0.8	32.7	0.3	36	1	288	92	32.7	0.3
Zircon_G01-22_031_033	515	195	0.35	0.04763	0.00167	0.03316	0.00122	0.0051	0.00006	0.0017	0.00004	0.3	34.3	0.8	32.7	0.4	33	1	81	82	32.7	0.4
Zircon_G01-5_010_012	478	311	0.60	0.04607	0.00084	0.03233	0.00072	0.0051	0.00006	0.00184	0.00012	0.4	37.0	3.0	32.7	0.4	32	0.7	1	36	32.7	0.4
Zircon_G01-15_022_024	607	276	0.42	0.04866	0.00146	0.03395	0.00106	0.0051	0.00004	0.00162	0.00003	0.3	32.7	0.6	32.6	0.3	34	1	131	73	32.6	0.3
Zircon_G01-35_046_048	374	144	0.36	0.05254	0.00221	0.03660	0.00161	0.0051	0.00007	0.00165	0.00004	0.3	33.3	0.8	32.5	0.4	36	2	309	98	32.5	0.4
Zircon_G01-6_012_014	555	368	0.61	0.05034	0.00285	0.03509	0.00208	0.0051	0.00004	0.00159	0.00002	0.2	32.2	0.4	32.5	0.3	35	2	211	131	32.5	0.3
Zircon_G01-12_019_021	619	421	0.63	0.04735	0.00156	0.03280	0.00114	0.0050	0.00006	0.00159	0.00004	0.3	32.1	0.8	32.3	0.4	33	1	67	76	32.3	0.4
Zircon_G01-29_039_041	592	327	0.51	0.04690	0.00131	0.03253	0.00102	0.0050	0.00007	0.00166	0.00004	0.5	33.5	0.8	32.3	0.4	33	1	44	62	32.3	0.4
Zircon_G01-16_024_026	775	450	0.54	0.04616	0.00111	0.03186	0.00094	0.0050	0.00006	0.00161	0.00004	0.4	32.4	0.7	32.2	0.4	32	0.9	6	49	32.2	0.4
Zircon_G01-39_051_053	608	364	0.55	0.04934	0.00148	0.03416	0.00110	0.0050	0.00006	0.0016	0.00004	0.4	32.3	0.8	32.2	0.4	34	1	164	71	32.2	0.4
Zircon_G01-23_032_034	466	174	0.34	0.05037	0.00196	0.03463	0.00139	0.0050	0.00004	0.00163	0.00004	0.3	32.9	0.8	32.0	0.3	35	1	212	94	32.0	0.3
Zircon_G01-30_040_042	802	803	0.93	0.04973	0.00134	0.03421	0.00097	0.0050	0.00005	0.00158	0.00003	0.3	31.9	0.6	32.0	0.3	34	1	182	66	32.0	0.3
Zircon_G01-37_049_051	501	283	0.52	0.05128	0.00179	0.03515	0.00129	0.0050	0.00005	0.00163	0.00004	0.3	32.9	0.8	32.0	0.3	35	1	253	82	32.0	0.3
Zircon_G01-4_009_011	472	273	0.53	0.04823	0.00183	0.03295	0.00150	0.0050	0.00007	0.00157	0.00002	0.5	31.7	0.5	31.9	0.4	33	1	111	87	31.9	0.4
Zircon_G01-1_006_008	844	481	0.53	0.04695	0.00131	0.03166	0.00100	0.0049	0.00004	0.00156	0.00002	0.3	31.4	0.5	31.5	0.2	32	1	47	63	31.5	0.2
Zircon_G01-8_014_016	642	351	0.51	0.05052	0.00234	0.03378	0.00168	0.0049	0.00005	0.00153	0.00002	0.3	30.9	0.4	31.2	0.3	34	2	219	108	31.2	0.3
Zircon_G01-27_037_039	921	549	0.55	0.04860	0.00131	0.03116	0.00089	0.0046	0.00004	0.00156	0.00004	0.3	31.5	0.8	29.8	0.3	31	0.9	129	65	29.8	0.3
Zircon_G01-38_050_052	1791	1830	0.94	0.04679	0.00084	0.02790	0.00054	0.0043	0.00003	0.0013	0.00002	0.4	26.3	0.4	27.8	0.2	28	0.5	39	40	27.8	0.2
CED-4																						
Zircon_10_018	257	173	0.63	0.05990	0.00234	0.04242	0.00170	0.0052	0.00005	0.00168	0.00004	0.2	33.9	0.8	33.3	0.3	42	2	600	85	33.3	0.3
Zircon_11_020	245	132	0.50	0.05512	0.00270	0.03870	0.00211	0.0051	0.00006	0.00159	0.00002	0.4	32.1	0.3	32.7	0.4	39	2	417	111	32.7	0.4
Zircon_13_022	210	114	0.50	0.05899	0.00248	0.04196	0.00181	0.0052	0.00005	0.00166	0.00004	0.2	33.5	0.8	33.3	0.3	42	2	567	92	33.3	0.3
Zircon_14_023	275	137	0.46	0.05248	0.00239	0.03795	0.00189	0.0052	0.00006	0.00165	0.00002	0.3	33.2	0.3	33.7	0.4	38	2	306	105	33.7	0.4
Zircon_15_024	239	80	0.31	0.05102	0.00245	0.03574	0.00177	0.0051	0.00006	0.00167	0.00005	0.2	34.0	1.0	32.9	0.4	36	2	242	111	32.9	0.4
Zircon_16_026	415	263	0.59	0.05422	0.00195	0.03897	0.00159	0.0053	0.0001	0.00166	0.00003	0.5	33.5	0.6	33.8	0.6	39	2	380	82	33.8	0.6
Zircon_18_027	257	113	0.41	0.05568	0.00272	0.04036	0.00209	0.0053	0.00005	0.00164	0.00002	0.3	33.1	0.3	33.8	0.3	40	2	440	110	33.8	0.3
Zircon_19_028	113	34	0.28	0.05944	0.00376	0.04436	0.00295	0.0054	0.00007	0.00167	0.00002	0.2	33.8	0.5	34.8	0.5	44	3	583	139	34.8	0.5
Zircon_20_029	326	179	0.51	0.05396	0.00294	0.03862	0.00226	0.0052	0.00006	0.00162	0.00002	0.2	32.8	0.4	33.4	0.4	38	2	369	124	33.4	0.4
Zircon_22_032	465	344	0.69	0.04949	0.00148	0.03580	0.00113	0.0053	0.00005	0.00164	0.00005	0.3	33.0	1.0	33.8	0.3	36	1	171	71	33.8	0.3
Zircon_23_033	329	171	0.48	0.05364	0.00196	0.03736	0.00150	0.0051	0.00005	0.00158	0.00001	0.3	31.9	0.3	32.5	0.3	37	1	356	83	32.5	0.3
Zircon_24_034	301	175	0.54	0.05314	0.00175	0.03670	0.00126	0.0051	0.00005	0.00158	0.00003	0.3	31.9	0.6	32.5	0.3	37	1	335	75	32.5	0.3
Zircon_25_035	286	149	0.48	0.05784	0.00208	0.04050	0.00151	0.0051	0.00005	0.00166	0.00004	0.3	33.5	0.8	32.9	0.3	40	1	524	80	32.9	0.3
Zircon_26_037	191	110	0.54	0.05449	0.00277	0.03892	0.00216	0.0052	0.00006	0.00162	0.00002	0.3	32.7	0.4	33.3	0.4	39	2	391	115	33.3	0.4
Zircon_27_038	188	94	0.46	0.05576	0.00279	0.04019	0.00206	0.0053	0.00006	0.00169	0.00005	0.2	34.0	1.0	33.9	0.4	40	2	443	96	33.9	0.4
Zircon_28_039	106	60	0.52	0.06223	0.00408	0.04478	0.00319	0.0052	0.00008	0.0016	0.00002	0.3	32.4	0.5	33.6	0.5	44	3	682	121	33.6	0.5

	U	Th	T/U	CORRECTED RATIOS									CORRECTED AGES									
				²⁰⁷ Pb/ ²⁰⁶ Pb	±1σ	²⁰⁷ Pb/ ²³⁵ U	±1σ	²⁰⁶ Pb/ ²³⁸ U	±1σ	²⁰⁸ Pb/ ²³² Th	±1σ	Rho	²⁰⁸ Pb/ ²³² Th	±1σ	²⁰⁶ Pb/ ²³⁸ U	±1σ	²⁰⁷ Pb/ ²³⁵ U	±1σ	²⁰⁷ Pb/ ²⁰⁶ Pb	±1σ	Best Age	±1σ
CED-4 cont.																						
Zircon_3_010	209	74	0.33	0.05356	0.00386	0.03740	0.00274	0.0051	0.00007	0.00172	0.00010	0.2	35.0	2.0	32.7	0.4	37	3	353	140	32.7	0.4
Zircon_30_041	199	104	0.48	0.06057	0.00248	0.04319	0.00182	0.0052	0.00005	0.00166	0.00005	0.2	34.0	1.0	33.3	0.3	43	2	624	76	33.3	0.3
Zircon_33_045	239	125	0.49	0.05743	0.00212	0.04159	0.00161	0.0053	0.00006	0.00171	0.00005	0.3	35.0	1.0	33.9	0.4	41	2	508	70	33.9	0.4
Zircon_34_046	168	260	1.44	0.05730	0.00241	0.04261	0.00186	0.0054	0.00007	0.00171	0.00004	0.3	34.5	0.8	34.8	0.4	42	2	503	80	34.8	0.4
Zircon_35_047	227	92	0.37	0.05093	0.00204	0.03588	0.00150	0.0052	0.00006	0.0015	0.00005	0.3	30.0	1.0	33.2	0.4	36	1	238	80	33.2	0.4
Zircon_36_049	393	356	0.84	0.05291	0.00180	0.03752	0.00132	0.0052	0.00004	0.00159	0.00003	0.3	32.1	0.6	33.1	0.3	37	1	325	67	33.1	0.3
Zircon_37_050	256	97	0.35	0.05310	0.00243	0.03843	0.00188	0.0053	0.00005	0.00164	0.00002	0.3	33.2	0.3	33.7	0.3	38	2	333	89	33.7	0.3
Zircon_38_051	177	60	0.32	0.05296	0.00267	0.03698	0.00197	0.0051	0.00005	0.00159	0.00002	0.2	32.1	0.3	32.6	0.3	37	2	327	99	32.6	0.3
Zircon_39_052	347	168	0.45	0.05549	0.00205	0.03987	0.00154	0.0052	0.00006	0.00164	0.00004	0.3	33.1	0.8	33.6	0.4	40	2	432	71	33.6	0.4
Zircon_4_011	279	169	0.56	0.05047	0.00211	0.03620	0.00170	0.0052	0.00006	0.00164	0.00002	0.3	33.1	0.4	33.4	0.4	36	2	217	83	33.4	0.4
Zircon_40_053	251	115	0.42	0.05555	0.00250	0.03936	0.00195	0.0051	0.00006	0.0016	0.00002	0.3	32.3	0.3	33.0	0.4	39	2	434	86	33.0	0.4
Zircon_5_012	420	255	0.56	0.05451	0.00174	0.03702	0.00123	0.0050	0.00004	0.00162	0.00003	0.3	32.7	0.6	32.1	0.3	37	1	392	62	32.1	0.3
Zircon_6_014	213	126	0.55	0.05880	0.00358	0.04044	0.00269	0.0050	0.00007	0.00154	0.00002	0.3	31.2	0.4	32.1	0.4	40	3	560	115	32.1	0.4
Zircon_7_015	161	70	0.40	0.06117	0.00349	0.04351	0.00254	0.0052	0.00007	0.00167	0.00006	0.2	34.0	1.0	33.2	0.4	43	2	645	106	33.2	0.4
Zircon_2_009	237	101	0.39	0.05105	0.00314	0.03668	0.00238	0.0052	0.00006	0.00164	0.00003	0.2	33.1	0.5	33.5	0.4	37	2	243	121	33.5	0.4
Zircon_8_016	167	65	0.36	0.05371	0.00252	0.04010	0.00199	0.0054	0.00009	-0.0046	-0.00013	0.3	-92.8	-2.6	34.9	0.6	40	2	359	91	34.9	0.6
Zircon_9_017	246	127	0.48	0.05538	0.00380	0.03946	0.00305	0.0052	0.0001	0.00161	0.00003	0.3	32.5	0.6	33.2	0.6	39	3	428	132	33.2	0.6
CED-5B																						
Zircon_8_015	203	56	0.25	0.05106	0.00296	0.03735	0.00232	0.0053	0.00007	0.00167	0.00003	0.3	33.7	0.6	34.1	0.4	37	2	244	122	34.1	0.4
Zircon_14_022	173	79	0.42	0.05554	0.00267	0.04055	0.00210	0.0053	0.00006	0.00165	0.00002	0.2	33.3	0.4	34.0	0.4	40	2	434	111	34.0	0.4
Zircon_23_033	165	77	0.43	0.04974	0.00272	0.03604	0.00216	0.0053	0.00007	0.00166	0.00003	0.3	33.5	0.6	33.8	0.5	36	2	183	126	33.8	0.5
Zircon_24_034	288	121	0.39	0.05514	0.00232	0.03972	0.00172	0.0053	0.00006	0.00166	0.00004	0.2	33.5	0.8	33.8	0.4	40	2	418	97	33.8	0.4
Zircon_21_031	294	168	0.53	0.04721	0.00212	0.03386	0.00157	0.0052	0.00006	0.00176	0.00004	0.3	35.5	0.8	33.7	0.4	34	2	60	99	33.7	0.4
Zircon_32_044	291	110	0.35	0.05350	0.00256	0.03868	0.00194	0.0052	0.00004	0.00164	0.00001	0.2	33.1	0.3	33.7	0.3	39	2	350	99	33.7	0.3
Zircon_20_029	215	95	0.41	0.05859	0.00389	0.04219	0.00298	0.0052	0.00007	0.00162	0.00003	0.3	32.7	0.5	33.6	0.5	42	3	552	151	33.6	0.5
Zircon_3_009	180	73	0.37	0.05584	0.00290	0.04052	0.00215	0.0052	0.00006	0.0017	0.00006	0.2	34.0	1.0	33.6	0.4	40	2	446	119	33.6	0.4
Zircon_10_017	235	91	0.36	0.05712	0.00257	0.04061	0.00189	0.0052	0.00006	0.00166	0.00006	0.3	34.0	1.0	33.5	0.4	40	2	496	102	33.5	0.4
Zircon_15_023	257	89	0.32	0.05358	0.00278	0.03851	0.00212	0.0052	0.00006	0.00163	0.00002	0.2	33.0	0.4	33.5	0.4	38	2	353	121	33.5	0.4
Zircon_30_041	183	67	0.34	0.05170	0.00411	0.03712	0.00314	0.0052	0.00007	0.00164	0.00004	0.3	33.1	0.8	33.5	0.5	37	3	272	163	33.5	0.5
Zircon_27_038	308	161	0.49	0.05356	0.00428	0.03836	0.00329	0.0052	0.00008	0.00163	0.00003	0.3	32.8	0.6	33.4	0.5	38	3	353	185	33.4	0.5
Zircon_5_011	205	76	0.34	0.05359	0.00379	0.03839	0.00289	0.0052	0.00007	0.00163	0.00002	0.3	32.8	0.5	33.4	0.5	38	3	354	147	33.4	0.5
Zircon_12_020	259	115	0.41	0.05861	0.00270	0.04159	0.00199	0.0052	0.00007	0.00164	0.00005	0.3	33.0	1.0	33.2	0.4	41	2	553	104	33.2	0.4
Zircon_19_028	227	82	0.34	0.05801	0.00233	0.04135	0.00188	0.0052	0.00007	0.0016	0.00002	0.4	32.4	0.5	33.2	0.5	41	2	530	90	33.2	0.5
Zircon_25_035	262	96	0.34	0.05475	0.00241	0.03895	0.00187	0.0052	0.00006	0.00161	0.00002	0.3	32.5	0.4	33.2	0.4	39	2	402	102	33.2	0.4
Zircon_39_052	276	142	0.47	0.04993	0.00175	0.03549	0.00131	0.0052	0.00006	0.00168	0.00004	0.3	33.9	0.8	33.2	0.4	35	1	192	74	33.2	0.4
Zircon_22_032	241	81	0.31	0.05221	0.00226	0.03704	0.00174	0.0052	0.00006	0.00162	0.00002	0.3	32.6	0.4	33.1	0.4	37	2	295	102	33.1	0.4
Zircon_33_045	284	133	0.43	0.05497	0.00250	0.03871	0.00191	0.0051	0.00005	0.00159	0.00002	0.3	32.2	0.3	32.8	0.3	39	2	411	93	32.8	0.3
Zircon_1_008	344	201	0.54	0.05044	0.00330	0.03543	0.00249	0.0051	0.00006	0.00161	0.00003	0.3	32.4	0.5	32.8	0.4	35	2	215	135	32.8	0.4
Zircon_18_027	284	139	0.45	0.04856	0.00228	0.03386	0.00163	0.0051	0.00006	0.00161	0.00004	0.2	32.5	0.8	32.7	0.4	34	2	127	107	32.7	0.4
Zircon_34_046	319	149	0.43	0.04801	0.00216	0.03342	0.00153	0.0051	0.00004	0.00166	0.00004	0.2	33.5	0.8	32.7	0.3	33	2	100	91	32.7	0.3
Zircon_4_010	170	72	0.39	0.05643	0.00384	0.03959	0.00283	0.0051	0.00006	0.00158	0.00002	0.2	32.0	0.4	32.7	0.4	39	3	469	138	32.7	0.4
Zircon_11_019	239	116	0.45	0.05644	0.00249	0.03948	0.00191	0.0051	0.00006	0.00158	0.00002	0.3	31.9	0.4	32.6	0.4	39	2	470	101	32.6	0.4
Zircon_9_016	437	308	0.65	0.05269	0.00292	0.03684	0.00229	0.0051	0.00006	0.00159	0.00002	0.4	32.1	0.4	32.6	0.4	37	2	316	115	32.6	0.4
Zircon_35_047	288	111	0.36	0.05229	0.00345	0.03646	0.00256	0.0051	0.00006	0.00159	0.00002	0.3	32.1	0.5	32.5	0.4	36	3	298	138	32.5	0.4

	U	Th	T/U	CORRECTED RATIOS									CORRECTED AGES									
				²⁰⁷ Pb/ ²⁰⁶ Pb	±1σ	²⁰⁷ Pb/ ²³⁵ U	±1σ	²⁰⁶ Pb/ ²³⁸ U	±1σ	²⁰⁸ Pb/ ²³² Th	±1σ	Rho	²⁰⁸ Pb/ ²³² Th	±1σ	²⁰⁶ Pb/ ²³⁸ U	±1σ	²⁰⁷ Pb/ ²³⁵ U	±1σ	²⁰⁷ Pb/ ²⁰⁶ Pb	±1σ	Best Age	±1σ
CED-5B cont.																						
Zircon_6_013	258	98	0.35	0.05073	0.00401	0.03537	0.00293	0.0051	0.00006	0.00159	0.00005	0.2	32.2	0.9	32.5	0.4	35	3	229	162	32.5	0.4
Zircon_7_014	306	132	0.40	0.05945	0.00333	0.04132	0.00237	0.0051	0.00006	0.00168	0.00006	0.2	34.0	1.0	32.5	0.4	41	2	584	112	32.5	0.4
Zircon_28_039	269	119	0.41	0.05086	0.00218	0.03537	0.00166	0.0050	0.00006	0.00159	0.00002	0.2	32.1	0.4	32.4	0.4	35	2	234	101	32.4	0.4
Zircon_37_050	286	125	0.40	0.05148	0.00273	0.03576	0.00202	0.0050	0.00005	0.00158	0.00002	0.2	32.0	0.4	32.4	0.3	36	2	262	111	32.4	0.3
Zircon_38_051	198	137	0.64	0.05575	0.00329	0.03820	0.00232	0.0050	0.00007	0.00157	0.00005	0.2	32.0	1.0	32.3	0.4	38	2	442	121	32.3	0.4
Zircon_13_021	217	85	0.36	0.05482	0.00214	0.03750	0.00152	0.0050	0.00006	0.00158	0.00005	0.3	32.0	1.0	32.2	0.4	37	1	405	90	32.2	0.4
Zircon_16_025	274	106	0.36	0.05405	0.00224	0.03736	0.00167	0.0050	0.00005	0.00157	0.00002	0.3	31.7	0.3	32.2	0.3	37	2	373	96	32.2	0.3
JBCAL-1																						
Zircon_17_027	87	81	0.82	0.07394	0.00192	1.73180	0.04737	0.1701	0.00145	0.05098	0.00122	0.3	1005.0	23.0	1012.0	8	1020	18	1040	51	1040.0	51
Zircon_18_028	149	45	0.26	0.07298	0.00244	1.59343	0.05677	0.1584	0.0013	0.04783	0.00042	0.3	944.0	8.0	948.0	7	968	22	1013	64	948.0	7
Zircon_06_014	173	67	0.34	0.07352	0.00147	1.48930	0.03236	0.1471	0.00125	0.04571	0.00119	0.4	903.0	23.0	885.0	7	926	13	1028	40	885.0	7
Zircon_04_011	178	115	0.57	0.05999	0.00174	0.64449	0.01918	0.0780	0.00052	0.02502	0.00063	0.2	499.0	12.0	484.0	3	505	12	603	63	484.0	3
Zircon_75_096	142	87	0.54	0.06019	0.00211	0.64215	0.02324	0.0778	0.00072	0.02499	0.00070	0.3	499.0	14.0	483.0	4	504	14	610	71	483.0	4
Zircon_32_045	85	42	0.44	0.05560	0.00607	0.17919	0.02077	0.0234	0.00044	0.00728	0.00022	0.3	147.0	4.0	149.0	3	167	18	437	239	149.0	3
Zircon_48_064	116	61	0.46	0.05623	0.00539	0.17506	0.01806	0.0226	0.00044	0.00703	0.00015	0.3	142.0	3.0	144.0	3	164	16	461	219	144.0	3
Zircon_12_021	92	56	0.54	0.05822	0.00992	0.05339	0.01001	0.0067	0.00025	0.00206	0.00015	0.3	42.0	3.0	43.0	2	53	10	538	368	43.0	2
Zircon_47_063	90	45	0.45	0.05667	0.00963	0.04928	0.00848	0.0064	0.00017	0.00259	0.00021	0.2	52.0	4.0	41.0	1	49	8	479	358	41.0	1
Zircon_53_070	93	47	0.45	0.11129	0.01892	0.09412	0.01642	0.0064	0.00025	0.00204	0.00035	0.2	41.0	7.0	41.0	2	91	15	1821	344	41.0	2
Zircon_11_020	86	45	0.46	0.03558	0.01566	0.03452	0.01526	0.0063	0.00026	0.00211	0.00017	0.1	43.0	3.0	40.0	2	34	15	-50	618	40.0	2
Zircon_13_022	83	45	0.48	0.05447	0.01519	0.04660	0.01392	0.0062	0.00023	0.00194	0.00044	0.3	39.0	9.0	40.0	1	46	14	391	518	40.0	1
Zircon_23_034	75	40	0.47	0.11753	0.01949	0.10068	0.01784	0.0062	0.00025	0.00178	0.00007	0.3	36.0	1.0	40.0	2	97	16	1919	304	40.0	2
Zircon_20_030	102	70	0.61	0.08193	0.01311	0.06801	0.01110	0.0061	0.0002	0.00215	0.00026	0.2	43.0	5.0	39.0	1	67	11	1244	321	39.0	1
Zircon_21_032	115	100	0.76	0.07035	0.02264	0.05840	0.01997	0.0060	0.00023	0.00183	0.00022	0.3	37.0	4.0	39.0	1	58	19	939	659	39.0	1
Zircon_61_080	81	39	0.42	0.05815	0.01944	0.04906	0.01809	0.0061	0.00032	0.0019	0.00066	0.4	38.0	13.0	39.0	2	49	18	535	595	39.0	2
Zircon_34_047	94	50	0.47	0.10299	0.03399	0.08427	0.03064	0.0059	0.00036	0.00173	0.00022	0.4	35.0	5.0	38.0	2	82	29	1679	691	38.0	2
Zircon_35_048	116	76	0.58	0.08972	0.01585	0.07272	0.01351	0.0059	0.00019	0.00174	0.00006	0.3	35.0	1.0	38.0	1	71	13	1420	349	38.0	1
Zircon_43_058	74	40	0.47	0.11589	0.01622	0.08865	0.01293	0.0059	0.00024	0.00191	0.00030	0.3	39.0	6.0	38.0	2	86	12	1894	272	38.0	2
Zircon_49_065	86	46	0.47	0.08564	0.03444	0.06983	0.02920	0.0059	0.00029	0.00176	0.00031	0.2	35.0	6.0	38.0	2	69	28	1330	943	38.0	2
Zircon_54_071	146	95	0.57	0.08977	0.01403	0.07375	0.01241	0.0060	0.00019	0.00176	0.00006	0.3	36.0	1.0	38.0	1	72	12	1421	330	38.0	1
Zircon_76_098	97	53	0.48	0.07025	0.01737	0.05683	0.01547	0.0059	0.00024	0.00178	0.00022	0.5	36.0	4.0	38.0	2	56	15	936	484	38.0	2
Zircon_57_075	172	57	0.29	0.04376	0.00744	0.03179	0.00544	0.0058	0.00012	0.00202	0.00022	0.1	41.0	4.0	37.3	0.8	32	5	-83	261	37.3	0.8
Zircon_19_029	109	81	0.66	0.06838	0.01231	0.05366	0.00977	0.0058	0.00016	0.00212	0.00015	0.2	43.0	3.0	37.0	1	53	9	880	380	37.0	1
Zircon_55_072	91	48	0.47	0.07174	0.02039	0.05693	0.01731	0.0058	0.00023	0.00174	0.00017	0.3	35.0	4.0	37.0	1	56	17	978	606	37.0	1
Zircon_64_083	86	49	0.50	0.11878	0.01792	0.09516	0.01505	0.0058	0.00019	0.00167	0.00006	0.3	34.0	1.0	37.0	1	92	14	1938	257	37.0	1
Zircon_65_084	139	92	0.58	0.07231	0.01085	0.05445	0.00831	0.0057	0.00016	0.00186	0.00018	0.2	38.0	4.0	37.0	1	54	8	995	291	37.0	1
Zircon_68_088	155	57	0.32	0.10490	0.01678	0.07741	0.01256	0.0058	0.00016	0.00204	0.00020	0.2	41.0	4.0	37.0	1	76	12	1713	281	37.0	1
Zircon_31_044	141	103	0.64	0.04333	0.01213	0.03143	0.00884	0.0056	0.00015	0.00232	0.00017	0.1	47.0	3.0	36.3	1	31	9	-106	400	36.3	1
Zircon_39_053	168	129	0.67	0.05402	0.00976	0.04185	0.00801	0.0056	0.00015	0.00176	0.00011	0.2	35.0	2.0	36.1	1	42	8	372	353	36.1	1
Zircon_01_008	129	88	0.60	0.06679	0.02134	0.05200	0.01814	0.0057	0.00021	0.00172	0.00028	0.3	35.0	6.0	36.0	1	51	18	831	659	36.0	1
Zircon_15_024	93	52	0.49	0.09910	0.02904	0.07705	0.02281	0.0056	0.00022	0.00165	0.00012	0.2	33.0	2.0	36.0	1	75	22	1607	600	36.0	1
Zircon_59_077	130	40	0.27	0.10337	0.01757	0.07269	0.01260	0.0056	0.00019	0.00521	0.00046	0.2	105.0	9.0	36.0	1	71	12	1685	301	36.0	1
Zircon_60_078	105	58	0.49	0.05490	0.00934	0.04203	0.00760	0.0056	0.00019	0.00173	0.00020	0.3	35.0	4.0	36.0	1	42	7	408	337	36.0	1
Zircon_03_010	300	149	0.44	0.05863	0.00761	0.04490	0.00611	0.0056	0.00011	0.00172	0.00007	0.2	35.0	1.0	35.7	0.7	45	6	554	289	35.7	0.7
Zircon_66_086	544	267	0.43	0.05116	0.00445	0.03890	0.00366	0.0055	0.0001	0.00174	0.00008	0.3	35.0	2.0	35.5	0.6	39	4	248	182	35.5	0.6

	U	Th	T/U	CORRECTED RATIOS									CORRECTED AGES									
				²⁰⁷ Pb/ ²⁰⁶ Pb	±1σ	²⁰⁷ Pb/ ²³⁵ U	±1σ	²⁰⁶ Pb/ ²³⁸ U	±1σ	²⁰⁸ Pb/ ²³² Th	±1σ	Rho	²⁰⁸ Pb/ ²³² Th	±1σ	²⁰⁶ Pb/ ²³⁸ U	±1σ	²⁰⁷ Pb/ ²³⁵ U	±1σ	²⁰⁷ Pb/ ²⁰⁶ Pb	±1σ	Best Age	±1σ
JBCAL-1 cont.																						
Zircon_78_100	244	96	0.35	0.06208	0.00807	0.04507	0.00593	0.0055	0.00012	0.00159	0.00017	0.2	32.0	3.0	35.5	0.8	45	6	677	262	35.5	0.8
Zircon_28_040	89	50	0.50	0.10838	0.01993	0.08202	0.01568	0.0055	0.00019	0.00159	0.00006	0.2	32.0	1.0	35.0	1	80	15	1772	348	35.0	1
Zircon_40_054	261	163	0.55	0.07719	0.02565	0.05745	0.02061	0.0054	0.00021	0.00162	0.00020	0.3	33.0	4.0	35.0	1	57	20	1126	740	35.0	1
Zircon_44_059	206	101	0.43	0.07460	0.01674	0.05600	0.01354	0.0054	0.0002	0.00164	0.00009	0.3	33.0	2.0	35.0	1	55	13	1058	484	35.0	1
Zircon_62_081	97	50	0.46	0.08401	0.01310	0.06326	0.01078	0.0055	0.0002	0.00162	0.00006	0.3	33.0	1.0	35.0	1	62	10	1293	290	35.0	1
Zircon_69_089	117	62	0.47	0.09501	0.01728	0.07032	0.01362	0.0054	0.00017	0.00158	0.00006	0.3	32.0	1.0	35.0	1	69	13	1528	331	35.0	1
Zircon_79_101	959	289	0.27	0.05096	0.00271	0.03788	0.00209	0.0054	0.00006	0.0017	0.00004	0.2	34.3	0.8	34.7	0.4	38	2	239	113	34.7	0.4
Zircon_02_009	308	115	0.33	0.04607	0.00105	0.03423	0.00092	0.0054	0.00007	0.00198	0.00022	0.2	40.0	4.0	34.6	0.4	34	0.9	1	44	34.6	0.4
Zircon_58_076	119	70	0.52	0.07346	0.01275	0.05455	0.01003	0.0054	0.00015	0.00163	0.00005	0.2	32.8	1.0	34.6	1	54	10	1027	387	34.6	1
Zircon_36_050	108	58	0.47	0.07923	0.01850	0.05774	0.01418	0.0053	0.0002	0.00158	0.00010	0.3	32.0	2.0	34.0	1	57	14	1178	488	34.0	1
Zircon_70_090	118	82	0.61	0.08391	0.01176	0.06192	0.00934	0.0054	0.00017	0.00159	0.00005	0.3	32.0	1.0	34.0	1	61	9	1291	259	34.0	1
Zircon_38_052	341	329	0.85	0.04948	0.00616	0.03599	0.00479	0.0053	0.00011	0.00167	0.00009	0.2	34.0	2.0	33.9	0.7	36	5	171	251	33.9	0.7
Zircon_45_060	172	141	0.72	0.07492	0.01351	0.05445	0.01026	0.0053	0.00014	0.00159	0.00005	0.2	32.1	1.0	33.9	0.9	54	10	1066	403	33.9	0.9
Zircon_33_046	275	222	0.71	0.05759	0.00781	0.04121	0.00580	0.0052	0.0001	0.00161	0.00005	0.2	33.0	1.0	33.4	0.7	41	6	514	296	33.4	0.7
Zircon_63_082	201	138	0.61	0.05973	0.00906	0.04282	0.00682	0.0052	0.00013	0.00161	0.00009	0.2	32.0	2.0	33.4	0.8	43	7	594	311	33.4	0.8
Zircon_73_094	101	50	0.44	0.04608	0.00860	0.03274	0.00642	0.0052	0.00016	0.00174	0.00044	0.2	35.0	9.0	33.0	1	33	6	2	308	33.0	1
Zircon_41_056	1590	3474	1.92	0.05214	0.00472	0.03663	0.00363	0.0051	0.00006	0.0016	0.00002	0.2	32.3	0.4	32.8	0.4	37	4	291	208	32.8	0.4
Zircon_08_016	408	387	0.84	0.05117	0.00997	0.03593	0.00766	0.0051	0.00011	0.0016	0.00013	0.4	32.0	3.0	32.7	0.7	36	8	248	378	32.7	0.7
Zircon_37_051	389	248	0.56	0.06094	0.01145	0.04269	0.00854	0.0051	0.00012	0.00157	0.00009	0.3	32.0	2.0	32.7	0.8	42	8	637	390	32.7	0.8
Zircon_29_041	929	745	0.71	0.05868	0.01154	0.04106	0.00858	0.0051	0.00012	0.00157	0.00010	0.3	32.0	2.0	32.6	0.8	41	8	555	401	32.6	0.8
Zircon_25_036	377	96	0.22	0.07232	0.01200	0.04980	0.00865	0.0050	0.00013	0.00151	0.00007	0.3	30.0	1.0	32.1	0.8	49	8	995	346	32.1	0.8
Zircon_77_099	325	186	0.50	0.05642	0.00633	0.03830	0.00458	0.0049	0.0001	0.00153	0.00006	0.3	31.0	1.0	31.7	0.6	38	4	469	232	31.7	0.6
Zircon_05_012	332	156	0.41	0.07181	0.02006	0.04766	0.01452	0.0048	0.00017	0.00146	0.00022	0.4	29.0	4.0	31.0	1	47	14	981	587	31.0	1
Zircon_24_035	474	205	0.38	0.05499	0.00651	0.03582	0.00437	0.0047	0.00007	0.00147	0.00006	0.2	30.0	1.0	30.4	0.5	36	4	412	260	30.4	0.5
RCHI-2																						
Zircon_12_021	903	420	0.01	0.06121	0.00416	0.06888	0.00477	0.0082	0.00011	0.00255	0.00013	0.2	51.0	3.0	52.6	0.7	68	5	647	136	52.6	0.7
Zircon_23_034	616	203	0.00	0.11162	0.00751	0.08381	0.00583	0.0055	0.0001	0.00157	0.00004	0.3	31.8	0.8	35.0	0.6	82	5	1826	113	35.0	0.6
Zircon_07_015	520	239	0.01	0.06397	0.00832	0.04662	0.00615	0.0053	0.00012	0.00158	0.00012	0.2	32.0	2.0	34.1	0.8	46	6	741	264	34.1	0.8
Zircon_34_047	576	272	0.01	0.06986	0.00758	0.05114	0.00565	0.0053	0.00013	0.00161	0.00004	0.2	32.5	0.9	34.1	0.8	51	5	924	211	34.1	0.8
Zircon_02_009	923	271	0.00	0.08975	0.00576	0.06493	0.00426	0.0053	0.00008	0.00155	0.00003	0.2	31.3	0.6	33.7	0.5	64	4	1420	113	33.7	0.5
Zircon_16_026	634	398	0.01	0.06587	0.00501	0.04675	0.00367	0.0052	0.00011	0.00157	0.00004	0.3	31.8	0.7	33.1	0.7	46	4	802	148	33.1	0.7
Zircon_36_050	3118	957	0.00	0.09352	0.00434	0.06598	0.00315	0.0051	0.00006	0.0015	0.00003	0.3	30.4	0.5	32.9	0.4	65	3	1498	81	32.9	0.4
Zircon_27_039	2305	586	0.00	0.07866	0.00357	0.05518	0.00259	0.0051	0.00007	0.00152	0.00003	0.3	30.8	0.5	32.7	0.4	55	2	1164	83	32.7	0.4
Zircon_08_016	2037	526	0.00	0.05222	0.00282	0.03587	0.00198	0.0050	0.00005	0.00162	0.00008	0.2	33.0	2.0	32.2	0.3	36	2	295	113	32.2	0.3
Zircon_21_032	711	190	0.00	0.05726	0.00687	0.03780	0.00463	0.0050	0.00012	0.00181	0.00012	0.2	37.0	2.0	32.1	0.8	38	5	502	248	32.1	0.8
Zircon_13_022	1231	366	0.00	0.05572	0.00423	0.03778	0.00291	0.0049	0.00006	0.00173	0.00009	0.2	35.0	2.0	31.8	0.4	38	3	441	157	31.8	0.4
Zircon_15_024	779	485	0.01	0.06792	0.00569	0.04625	0.00393	0.0049	0.00008	0.0015	0.00003	0.2	30.4	0.6	31.8	0.5	46	4	866	162	31.8	0.5
Zircon_19_029	532	185	0.00	0.06992	0.00633	0.04762	0.00442	0.0049	0.00011	0.0015	0.00004	0.2	30.3	0.7	31.8	0.7	47	4	926	175	31.8	0.7
Zircon_26_038	635	498	0.01	0.07429	0.00659	0.05070	0.00462	0.0050	0.00011	0.00149	0.00004	0.3	30.1	0.7	31.8	0.7	50	4	1049	168	31.8	0.7
Zircon_31_044	700	410	0.01	0.05111	0.00394	0.03433	0.00275	0.0050	0.00011	0.00169	0.00010	0.3	34.0	2.0	31.8	0.7	34	3	246	161	31.8	0.7
Zircon_29_041	1066	421	0.00	0.05481	0.00422	0.03703	0.00290	0.0049	0.00007	0.00163	0.00011	0.2	33.0	2.0	31.7	0.4	37	3	404	160	31.7	0.4
Zircon_04_011	661	291	0.00	0.06223	0.00517	0.04187	0.00354	0.0049	0.00008	0.00149	0.00010	0.2	30.0	2.0	31.6	0.5	42	3	682	166	31.6	0.5
Zircon_06_014	1787	548	0.00	0.07386	0.00503	0.04968	0.00342	0.0049	0.00006	0.00147	0.00002	0.2	29.7	0.5	31.4	0.4	49	3	1038	128	31.4	0.4
Zircon_14_023	789	465	0.01	0.05930	0.00712	0.03901	0.00475	0.0049	0.0001	0.00164	0.00009	0.2	33.0	2.0	31.4	0.6	39	5	578	247	31.4	0.6

	U	Th	T/U	CORRECTED RATIOS									CORRECTED AGES										
				²⁰⁷ Pb/ ²⁰⁶ Pb	±1σ	²⁰⁷ Pb/ ²³⁵ U	±1σ	²⁰⁶ Pb/ ²³⁸ U	±1σ	²⁰⁸ Pb/ ²³² Th	±1σ	Rho	²⁰⁸ Pb/ ²³² Th	±1σ	²⁰⁶ Pb/ ²³⁸ U	±1σ	²⁰⁷ Pb/ ²³⁵ U	±1σ	²⁰⁷ Pb/ ²⁰⁶ Pb	±1σ	Best Age	±1σ	
RCHI-2 cont.																							
Zircon_18_028	876	460	0.01	0.06161	0.00534	0.04145	0.00363	0.0049	0.00007	0.0015	0.00003	0.2	30.3	0.5	31.4	0.4	41	4	661	174	31.4	0.4	
Zircon_33_046	938	619	0.01	0.06763	0.00643	0.04539	0.00440	0.0049	0.00009	0.00166	0.00009	0.2	34.0	2.0	31.4	0.6	45	4	857	186	31.4	0.6	
Zircon_37_051	685	397	0.01	0.05481	0.00521	0.03645	0.00354	0.0049	0.0001	0.00169	0.00009	0.2	34.0	2.0	31.2	0.6	36	3	404	197	31.2	0.6	
Zircon_22_033	1535	738	0.01	0.06948	0.00396	0.04626	0.00273	0.0048	0.00008	0.00147	0.00003	0.3	29.6	0.5	31.1	0.5	46	3	913	108	31.1	0.5	
Zircon_11_020	905	518	0.01	0.05780	0.00497	0.03773	0.00329	0.0048	0.00007	0.0016	0.00008	0.2	32.0	2.0	31.0	0.4	38	3	522	177	31.0	0.4	
Zircon_05_012	1421	501	0.00	0.04919	0.00290	0.03242	0.00195	0.0048	0.00006	0.00147	0.00007	0.2	30.0	1.0	30.7	0.4	32	2	157	121	30.7	0.4	
Zircon_20_030	920	573	0.01	0.04813	0.00347	0.03186	0.00235	0.0048	0.00008	0.00151	0.00009	0.2	30.0	2.0	30.7	0.5	32	2	106	145	30.7	0.5	
Zircon_30_042	2557	1075	0.00	0.05994	0.00407	0.03950	0.00274	0.0048	0.00007	0.00148	0.00002	0.2	29.8	0.5	30.7	0.4	39	3	601	136	30.7	0.4	
Zircon_10_018	2559	639	0.00	0.06044	0.00309	0.03966	0.00209	0.0048	0.00006	0.00147	0.00002	0.3	29.7	0.4	30.6	0.4	39	2	619	102	30.6	0.4	
Zircon_35_048	1923	1491	0.01	0.04909	0.00304	0.03181	0.00202	0.0047	0.00007	0.00143	0.00006	0.2	29.0	1.0	30.5	0.4	32	2	152	126	30.5	0.4	
Zircon_01_008	949	346	0.00	0.08239	0.00518	0.05372	0.00346	0.0047	0.00008	0.00141	0.00003	0.3	28.5	0.6	30.4	0.5	53	3	1255	124	30.4	0.5	
Zircon_24_035	1125	665	0.01	0.05505	0.00391	0.03596	0.00261	0.0047	0.00007	0.00157	0.00008	0.2	32.0	2.0	30.4	0.4	36	3	414	147	30.4	0.4	
Zircon_28_040	896	528	0.01	0.07751	0.00650	0.04936	0.00422	0.0046	0.00009	0.00139	0.00003	0.2	28.0	0.6	29.7	0.6	49	4	1134	156	29.7	0.6	
Zircon_39_053	3641	1216	0.00	0.05383	0.00275	0.03393	0.00177	0.0046	0.00005	0.00157	0.00008	0.2	32.0	2.0	29.4	0.3	34	2	364	106	29.4	0.3	
M-1																							
Zircon_M01-15_022_024	77	72	0.86	0.05398	0.00893	0.03949	0.00722	0.0053	0.00014	0.00166	0.00008	0.2	34.0	2.0	34.1	0.9	39	7	370	348	34.1	0.9	
Zircon_M01-20_028_030	429	408	0.87	0.05102	0.00316	0.03616	0.00228	0.0051	0.00006	0.00179	0.00005	0.2	36.0	1.0	33.0	0.4	36	2	242	136	33.0	0.4	
Zircon_M01-19_027_029	161	116	0.66	0.05296	0.00334	0.03609	0.00234	0.0050	0.00007	0.0016	0.00006	0.2	32.0	1.0	32.1	0.4	36	2	327	145	32.1	0.4	
Zircon_M01-4_009_011	170	137	0.74	0.04970	0.00268	0.03351	0.00204	0.0050	0.00014	0.00177	0.00005	0.5	36.0	1.0	32.0	0.9	33	2	181	118	32.0	0.9	
Zircon_M01-37_049_051	140	120	0.79	0.04633	0.00315	0.03127	0.00220	0.0049	0.00009	0.00154	0.00006	0.3	31.0	1.0	31.5	0.6	31	2	15	138	31.5	0.6	
Zircon_M01-24_033_035	127	107	0.77	0.05146	0.00314	0.03382	0.00219	0.0048	0.00011	0.00145	0.00006	0.3	29.0	1.0	30.9	0.7	34	2	261	141	30.9	0.7	
Zircon_M01-14_021_023	343	293	0.78	0.04947	0.00198	0.03260	0.00134	0.0048	0.00004	0.00145	0.00003	0.2	29.3	0.6	30.8	0.3	33	1	170	92	30.8	0.3	
Zircon_M01-30_040_042	216	164	0.70	0.04949	0.00252	0.03256	0.00171	0.0048	0.00006	0.00149	0.00004	0.2	30.1	0.8	30.8	0.4	33	2	171	117	30.8	0.4	
Zircon_M01-13_020_022	147	138	0.86	0.05329	0.00410	0.03457	0.00271	0.0048	0.00007	0.00151	0.00004	0.2	30.5	0.8	30.7	0.4	35	3	341	177	30.7	0.4	
Zircon_M01-16_024_026	597	336	0.52	0.04822	0.00159	0.03168	0.00109	0.0048	0.00005	0.00148	0.00003	0.3	29.9	0.6	30.7	0.3	32	1	110	76	30.7	0.3	
Zircon_M01-10_016_018	414	346	0.77	0.04614	0.00243	0.03018	0.00180	0.0047	0.00006	0.00152	0.00005	0.2	30.8	1.0	30.5	0.4	30	2	5	111	30.5	0.4	
Zircon_M01-33_044_046	189	113	0.55	0.05205	0.00323	0.03374	0.00240	0.0047	0.00008	0.00148	0.00002	0.4	29.8	0.5	30.2	0.5	34	2	288	136	30.2	0.5	
Zircon_M01-5_010_012	323	192	0.54	0.04966	0.00218	0.03191	0.00146	0.0047	0.00006	0.00151	0.00004	0.3	30.5	0.8	30.1	0.4	32	1	179	97	30.1	0.4	
Zircon_M01-7_013_015	347	133	0.35	0.04664	0.00238	0.02968	0.00155	0.0047	0.00005	0.0016	0.00006	0.2	32.0	1.0	30.0	0.3	30	2	31	104	30.0	0.3	
Zircon_M01-1_006_008	311	236	0.70	0.04611	0.00240	0.02921	0.00157	0.0046	0.00006	0.00145	0.00004	0.3	29.3	0.8	29.8	0.4	29	2	3	110	29.8	0.4	
Zircon_M01-23_032_034	405	224	0.51	0.05122	0.00256	0.03263	0.00166	0.0046	0.00005	0.00148	0.00004	0.2	29.9	0.8	29.8	0.3	33	2	251	115	29.8	0.3	
Zircon_M01-40_052_054	267	263	0.90	0.05132	0.00226	0.03265	0.00147	0.0046	0.00005	0.00145	0.00003	0.2	29.3	0.6	29.7	0.3	33	1	255	98	29.7	0.3	
Zircon_M01-17_025_027	433	349	0.74	0.04864	0.00208	0.03089	0.00154	0.0046	0.00005	0.00146	0.00002	0.3	29.5	0.3	29.6	0.3	31	2	130	97	29.6	0.3	
Zircon_M01-18_026_028	339	247	0.67	0.05394	0.00205	0.03413	0.00137	0.0046	0.00006	0.00148	0.00004	0.3	29.9	0.8	29.6	0.4	34	1	369	87	29.6	0.4	
Zircon_M01-12_019_021	352	349	0.91	0.04876	0.00340	0.03088	0.00242	0.0046	0.00006	0.00145	0.00003	0.2	29.4	0.6	29.5	0.4	31	2	136	155	29.5	0.4	
Zircon_M01-21_030_032	403	171	0.39	0.04957	0.00255	0.03133	0.00180	0.0046	0.00006	0.00145	0.00002	0.3	29.3	0.5	29.5	0.4	31	2	175	118	29.5	0.4	
Zircon_M01-25_034_036	278	171	0.56	0.05013	0.00211	0.03164	0.00137	0.0046	0.00005	0.00148	0.00004	0.2	29.9	0.8	29.5	0.3	32	1	201	97	29.5	0.3	
Zircon_M01-34_045_047	596	778	1.20	0.05109	0.00158	0.03223	0.00104	0.0046	0.00004	0.00141	0.00002	0.3	28.5	0.4	29.5	0.3	32	1	245	69	29.5	0.3	
Zircon_M01-32_043_045	400	221	0.51	0.05028	0.00231	0.03150	0.00159	0.0045	0.00005	0.00143	0.00002	0.3	29.0	0.3	29.2	0.3	31	2	208	101	29.2	0.3	
Zircon_M01-3_008_010	413	252	0.56	0.04675	0.00182	0.02912	0.00119	0.0045	0.00005	0.00148	0.00003	0.3	29.9	0.6	29.1	0.3	29	1	36	82	29.1	0.3	
Zircon_M01-6_012_014	258	293	1.04	0.05215	0.00240	0.03167	0.00151	0.0044	0.00006	0.00164	0.00020	0.3	33.0	4.0	28.5	0.4	32	1	292	102	28.5	0.4	
Zircon_M01-9_015_017	146	114	0.72	0.04924	0.00480	0.02998	0.00348	0.0044	0.00013	0.0014	0.00005	0.4	28.0	1.0	28.4	0.9	30	3	159	207	28.4	0.9	
Zircon_M01-11_018_020	2828	1346	0.44	0.04712	0.00090	0.02693	0.00055	0.0042	0.00003	0.00147	0.00002	0.4	29.7	0.4	26.7	0.2	27	0.5	55	44	26.7	0.2	
Zircon_M01-27_037_039	7629	8792	1.06	0.04974	0.00065	0.02763	0.00041	0.0040	0.00003	0.00123	0.00002	0.5	24.8	0.4	25.9	0.2	28	0.4	183	31	25.9	0.2	

Supplementary Data Table 4. K-Ar isotopic data of adularia sample obtained from the Valenciana mine.

Sample	Mineral	%K	⁴⁰Ar*(moles/g)	%⁴⁰Ar*	Age (Ma)	± (1σ)
Val-1	Adularia	12.78	6.661E-10	95.7	29.8	0.8

K (%) percentage by weight of K

⁴⁰Ar* radiogenic Ar concentration in moles/g

⁴⁰Ar* (%) radiogenic Ar percentage

The K was obtained following Solé and Enrique (2001); the Argon was measured by isotope dilution (³⁸Ar tracer) with VG1200B noble gas mass spectrometer following Solé (2009)

The analysis was carried out in the Geochronology Laboratory of K–Ar, University Laboratory of Isotope Geochemistry (LUGIS) at the Universidad Nacional Autónoma de México