

Table S2: Additional set of zircon U–Pb isotopic data for age calculation diagrams.

Sample/Spot Zircon	U (ppm)	Th/U	f206 (%)	207Pb/235U	$\pm\sigma$ (%)	206Pb/238U	$\pm\sigma$ (%)	q	207Pb/235U age (Ma)	$\pm\sigma$ (Ma)	206Pb/238U age (Ma)	$\pm\sigma$ (Ma)
DOL-1/12	2049.4	1.166	0.11	0.3728	1.95	0.0510	1.50	0.77	321.7	5.4	320.7	4.7
DOL-1/16	749.1	0.737	0.04	0.3873	2.17	0.0524	1.51	0.69	332.4	6.2	329.2	4.8
DOL-1/18	1466.5	0.235	0.07	0.3871	1.77	0.0530	1.50	0.85	332.2	5.0	333.2	4.9
DOL-1/22	391.9	0.375	0.01	0.4360	2.21	0.0582	1.50	0.68	367.4	6.8	364.7	5.3
DOL-1/27	620.4	0.496	0.13	0.4601	2.30	0.0604	1.54	0.67	384.4	7.4	378.1	5.6
DOL-1/11	486.9	0.434	0.15	0.5075	1.96	0.0664	1.55	0.79	416.8	6.7	414.2	6.2
DOL-1/07	605.3	0.296	0.13	0.5459	1.82	0.0691	1.56	0.86	442.3	6.6	430.8	6.5
DOL-1/19	452.0	0.312	0.05	0.5388	2.08	0.0700	1.52	0.73	437.6	7.4	436.0	6.4
DOL-1/17	1223.0	0.650	0.00	0.5419	1.75	0.0721	1.53	0.88	439.7	6.3	448.8	6.7
DOL-1/04	1207.7	0.382	0.01	0.6378	1.58	0.0802	1.50	0.95	501.0	6.3	497.2	7.2
DOL-1/30	917.7	0.267	1.45	0.6581	2.88	0.0840	1.50	0.52	513.4	11.7	519.8	7.5
DOL-1/08	531.3	0.374	0.10	0.6838	2.02	0.0844	1.55	0.77	529.1	8.3	522.3	7.8
DOL-1/25	791.7	0.375	0.08	0.6940	1.81	0.0860	1.51	0.83	535.2	7.5	531.8	7.7
DOL-1/28	192.8	0.933	0.24	0.6952	2.93	0.0860	1.50	0.51	535.9	12.3	532.0	7.7
DOL-1/13	1210.1	0.104	0.61	0.7347	1.91	0.0908	1.52	0.79	559.3	8.2	560.4	8.2
DOL-1/15	801.7	0.139	0.00	0.7405	1.71	0.0921	1.52	0.89	562.7	7.4	568.1	8.3
DOL-1/23	706.4	0.128	0.15	0.7660	1.78	0.0962	1.50	0.84	577.5	7.9	592.4	8.5
DOL-1/20	439.8	0.433	0.01	0.8158	2.27	0.0971	1.50	0.66	605.7	10.4	597.2	8.6
DOL-1/32	1487.1	0.120	1.98	0.9198	4.96	0.1090	1.52	0.31	662.3	24.4	666.8	9.6
JAK-1/07	1438.2	0.072	0.06	0.4455	2.01	0.0594	1.97	0.98	374.1	6.3	371.8	7.1
JAK-1/10	999.4	0.085	0.05	0.6643	1.57	0.0851	1.50	0.95	517.2	6.4	526.6	7.6
JAK-1/24	332.5	0.701	0.05	0.9477	1.61	0.1100	1.50	0.93	676.9	8.0	672.5	9.6
JAK-1/11	391.6	1.203	0.12	0.9436	1.63	0.1121	1.54	0.94	674.8	8.1	684.7	10.0
JAK-1/09	495.1	0.043	0.08	0.5633	1.64	0.0734	1.54	0.94	453.7	6.0	456.7	6.8
JAK-1/15	290.6	0.742	0.10	0.8367	1.80	0.0999	1.66	0.92	617.3	8.3	614.0	9.7
JAK-1/04	307.5	0.107	0.17	0.5658	1.69	0.0729	1.53	0.91	455.3	6.2	453.4	6.7
JAK-1/01	292.8	0.117	0.09	0.5696	1.97	0.0736	1.81	0.92	457.7	7.3	457.8	8.0
JAK-1/18	521.7	0.335	0.11	0.3378	1.72	0.0472	1.51	0.88	295.5	4.4	297.5	4.4
JAK-1/14	320.3	0.711	0.22	0.7867	1.67	0.0948	1.51	0.91	589.3	7.5	583.6	8.4
JAK-1/22	524.5	0.380	0.21	0.3397	1.68	0.0472	1.52	0.91	296.9	4.3	297.5	4.4
JAK-1/19	1241.4	0.506	0.07	0.3616	2.05	0.0504	1.91	0.93	313.4	5.5	316.8	5.9
JAK-1/12	353.6	0.451	0.21	1.2652	1.82	0.1365	1.61	0.89	830.2	10.4	825.1	12.5
JAK-1/23	293.1	0.779	0.80	0.2558	2.81	0.0379	1.50	0.53	231.3	5.8	239.8	3.5
JAK-1/13	119.4	0.346	2.05	1.2137	7.97	0.1335	1.53	0.19	806.9	45.4	808.0	11.7
JAK-1/26	426.6	0.182	4.76	0.8465	10.18	0.1054	1.66	0.16	622.7	48.5	645.8	10.2
JAK-5A/03	152.5	0.789	0.16	0.7526	3.07	0.0906	1.50	0.49	569.7	13.5	559.1	8.0
JAK-5A/04	674.4	0.323	0.08	0.6057	2.66	0.0781	1.61	0.60	480.8	10.2	484.8	7.5
JAK-5A/05	438.6	1.586	0.16	0.7805	2.11	0.0952	1.50	0.71	585.7	9.4	586.4	8.4
JAK-5A/09	872.1	0.214	0.35	0.5828	2.27	0.0759	1.51	0.66	466.2	8.5	471.8	6.9
JAK-5A/12	151.8	0.380	0.26	0.7680	3.00	0.0916	1.60	0.53	578.6	13.3	564.9	8.7
JAK-5A/13	744.4	0.871	0.25	0.4734	2.87	0.0620	2.08	0.72	393.6	9.4	387.8	7.8
JAK-5A/15	500.4	0.321	0.07	3.4782	2.10	0.2336	1.57	0.75	1522.3	16.7	1353.4	19.2
JAK-5A/16	651.0	0.204	0.25	0.5496	2.17	0.0731	1.51	0.70	444.8	7.8	454.9	6.6
JAK-5A/17	1140.1	0.447	0.17	0.6670	2.16	0.0825	1.50	0.69	518.9	8.8	511.3	7.4
JAK-5A/19	688.7	0.444	0.19	0.5727	2.09	0.0751	1.50	0.72	459.8	7.7	466.6	6.8
JAK-5A/20	239.1	0.593	0.36	1.0190	3.55	0.1215	1.52	0.43	713.4	18.3	739.3	10.6
JAK-5/24	1699.8	0.221	0.02	7.6727	1.78	0.3749	1.56	0.88	2193.4	16.1	2052.3	27.5
JAK-5/1.1	283.5	0.372	0.46	0.2740	6.80	0.0386	2.60	0.38	260	140	244.1	6.2
JAK-5/2.1	331.8	0.516	0.00	0.6780	3.80	0.0824	2.40	0.65	593	62	511.0	12.0
JAK-5/2.2	795.8	0.020	0.75	0.4060	5.20	0.0567	2.40	0.46	279	110	355.8	8.2
JAK-5/3.1	88.0	0.422	0.00	0.2740	6.60	0.0389	2.80	0.43	245	140	246.1	6.9
JAK-5/4.1	358.4	0.468	0.25	0.8020	3.70	0.0973	2.40	0.66	596	59	599.0	14.0
JAK-5/5.1	244.5	0.418	0.00	0.2880	5.00	0.039	2.60	0.53	349	95	246.7	6.4
JAK-5/6.1	130.8	0.474	0.00	0.2900	6.40	0.0379	2.90	0.46	430	130	239.8	6.9
JAK-5/7.1	201.4	0.773	0.97	0.2760	9.00	0.0376	2.70	0.30	337	190	238.1	6.3
JAK-5/8.1	398.3	0.297	0.32	0.2730	5.40	0.03952	2.50	0.46	201	110	249.8	6.0
JAK-5/8.2	828.3	0.123	0.58	0.2870	4.90	0.04138	2.40	0.48	211	100	261.4	6.1
JAK-5/9.1	280.5	0.376	0.67	0.2660	6.90	0.03848	2.50	0.37	203	150	243.4	6.1
JAK-5/10.1	382.6	0.230	0.48	0.5670	5.40	0.0754	2.40	0.45	395	110	468.0	11.0
JAK-5/11.1	548.5	0.403	0.00	0.2716	3.40	0.03958	2.40	0.70	184	56	250.2	5.9
JAK-5/12.1	327.7	0.285	0.83	0.2640	8.10	0.03953	2.50	0.31	117	180	249.9	6.2
JAK-5/13.1	64.5	0.385	0.00	1.8100	6.10	0.1686	3.00	0.49	1143	100	1004.0	28.0