

Table 11s U-Pb data for GJ-1 Zircon by LA-MC (mixed collectors)-ICPMS

Analysis	Pb ^a [ppm]	U ^a [ppm]	Th/U	²⁰⁷ Pb ^b [cps]	²³⁸ U ^c [mV]	RATIOS						AGES [Ma]						
						²⁰⁷ Pb/ ²⁰⁶ Pb ^d	2s	²⁰⁷ Pb/ ²³⁵ U ^d	2s	²⁰⁶ Pb/ ²³⁸ U ^d	2s	rho ^e	²⁰⁷ Pb/ ²⁰⁶ Pb	2s	²⁰⁷ Pb/ ²³⁵ U	2s	²⁰⁶ Pb/ ²³⁸ U	2s
Date: 2016-7-25																		
GJ-1-1	22.8	304	0.031	524	1.54	0.0597	0.0027	0.7825	0.0579	0.0952	0.0066	0.9310	591	94	587	33	586	39
GJ-1-2	23.8	309	0.022	539	1.53	0.0594	0.0030	0.8041	0.0562	0.0989	0.0056	0.8163	589	105	599	32	608	33
GJ-1-3	22.3	298	0.027	479	1.45	0.0571	0.0034	0.7640	0.0649	0.0969	0.0055	0.6740	498	130	576	37	596	33
GJ-1-4	23.3	305	0.025	518	1.45	0.0613	0.0030	0.8371	0.0614	0.0988	0.0055	0.7526	650	106	618	34	608	32
GJ-1-5	23.0	308	0.023	519	1.44	0.0630	0.0035	0.8310	0.0617	0.0961	0.0066	0.9189	709	125	614	34	591	39
GJ-1-6	24.2	301	0.034	516	1.38	0.0617	0.0030	0.8711	0.0648	0.1026	0.0067	0.8829	665	99	636	35	629	39
GJ-1-7	23.8	310	0.028	558	1.56	0.0606	0.0031	0.8167	0.0572	0.0977	0.0054	0.7882	628	105	606	32	601	32
GJ-1-8	24.3	315	0.029	549	1.56	0.0589	0.0032	0.8028	0.0724	0.0989	0.0067	0.7563	565	120	598	41	608	40
GJ-1-9	22.3	299	0.023	494	1.45	0.0594	0.0031	0.7865	0.0543	0.0962	0.0050	0.7460	583	118	589	31	592	29
GJ-1-10	22.9	302	0.028	502	1.44	0.0608	0.0031	0.8195	0.0503	0.0980	0.0051	0.8482	632	108	608	28	603	30
GJ-1-11	23.3	302	0.029	511	1.41	0.0615	0.0031	0.8387	0.0642	0.0987	0.0053	0.7002	654	109	618	35	607	31
GJ-1-12	24.3	307	0.029	504	1.41	0.0592	0.0036	0.8296	0.0693	0.1015	0.0057	0.6750	574	131	613	38	623	33
GJ-1-13	23.2	316	0.035	515	1.59	0.0576	0.0028	0.7462	0.0576	0.0940	0.0058	0.7972	522	106	566	33	579	34
GJ-1-14	23.3	306	0.032	532	1.51	0.0600	0.0030	0.8023	0.0586	0.0973	0.0055	0.7787	611	106	598	33	599	32
GJ-1-15	22.3	296	0.023	495	1.43	0.0599	0.0028	0.8037	0.0558	0.0972	0.0052	0.7641	611	104	599	31	598	30
GJ-1-16	24.0	308	0.020	489	1.47	0.0560	0.0029	0.7828	0.0562	0.1012	0.0052	0.7221	454	117	587	32	621	31
GJ-1-17	23.5	311	0.026	498	1.45	0.0595	0.0034	0.7934	0.0585	0.0966	0.0048	0.6682	587	124	593	33	594	28
GJ-1-18	24.3	314	0.032	499	1.44	0.0589	0.0032	0.8077	0.0562	0.0995	0.0052	0.7445	565	117	601	32	612	30
GJ-1-19	23.3	310	0.027	528	1.55	0.0591	0.0026	0.7761	0.0540	0.0955	0.0053	0.7970	569	94	583	31	588	31
GJ-1-20	23.8	305	0.022	513	1.50	0.0560	0.0028	0.7807	0.0656	0.1010	0.0062	0.7255	450	111	586	37	620	36
GJ-1-21	22.7	293	0.034	495	1.41	0.0591	0.0035	0.8207	0.0653	0.1006	0.0056	0.6964	572	130	608	36	618	33
GJ-1-22	22.8	303	0.026	483	1.44	0.0578	0.0031	0.7812	0.0635	0.0975	0.0050	0.6359	524	120	586	36	600	30

GJ-1-23	23.2	305	0.028	510	1.42	0.0622	0.0036	0.8318	0.0610	0.0972	0.0054	0.7618	683	323	615	34	598	32
GJ-1-24	23.4	306	0.027	501	1.40	0.0612	0.0038	0.8365	0.0629	0.0991	0.0045	0.6083	656	135	617	35	609	27
GJ-1-25	22.9	301	0.025	522	1.50	0.0598	0.0030	0.7938	0.0594	0.0969	0.0060	0.8312	594	109	593	34	596	35
GJ-1-26	22.6	295	0.022	503	1.45	0.0583	0.0028	0.7947	0.0616	0.0990	0.0063	0.8265	543	106	594	35	609	37
GJ-1-27	22.7	302	0.024	500	1.45	0.0606	0.0031	0.8107	0.0571	0.0970	0.0055	0.7985	626	105	603	32	597	32
GJ-1-28	22.4	287	0.037	463	1.36	0.0567	0.0032	0.7897	0.0563	0.1011	0.0057	0.7950	480	131	591	32	621	34
GJ-1-29	22.8	296	0.032	484	1.37	0.0604	0.0033	0.8155	0.0641	0.0980	0.0061	0.7879	620	125	606	36	603	36
GJ-1-30	23.0	298	0.031	492	1.36	0.0615	0.0032	0.8502	0.0571	0.1005	0.0059	0.8784	657	111	625	31	618	35

^a U and Pb concentrations and Th/U ratios are calculated relative to NIST 610; laser ablated at fluence of 4 J/cm² and repetition of 4 Hz

^b Within-run background-corrected mean ²⁰⁷Pb and ²³⁸U signal in counts per second [cps] and millivolt [mV]

^c Mixed collectors (average ²³⁸U signal of 1.46 mV on H4 Faraday cup, about 91000 cps) applied in this session

^d Corrected for background and Pb/U fractionation and normalised to reference zircon GJ-1; ²⁰⁷Pb/²³⁵U calculated using (²⁰⁷Pb/²⁰⁶Pb)/(²³⁸U/²⁰⁶Pb * 1/137.818)

^e Rho is the error correlation defined as the quotient of the propagated relative errors of the ²⁰⁶Pb/²³⁸U and the ²⁰⁷Pb/²³⁵U ratio