

GSA Data Repository Item 2017397

Rooney, A.D., Austermann, J., Smith, E.F., Li, Y., Selby, D., Dehler, C.M., Schmitz, M.D., Karlstrom, K.E., Macdonald, F.A., 2017, Coupled Re-Os and U-Pb geochronology of the Tonian Chuar Group, Grand Canyon: GSA Bulletin, <https://doi.org/10.1130/B31768.1>.

DATA REPOSITORY

Table DR1. Zircon LA-ICPMS U-Pb geochronology

Table DR2. Zircon LA-ICPMS concentrations

PL 470	490	53	28	0.11	0.39	4.2	0.052	3.4	0.81	19.17	3.4	0.055	2.4	395	54	336	12	328	11	17
PL 471	499	55	29	0.11	0.39	5.3	0.053	4.4	0.83	18.96	4.4	0.054	2.9	365	66	336	15	331	14	9
PL 476	559	71	33	0.13	0.4	3.8	0.053	3.2	0.82	18.74	3.2	0.054	2.1	363	48	339	11	335	10	8
PL 477	538	65	31	0.12	0.39	4.1	0.053	2.7	0.63	18.98	2.7	0.053	3.1	343	71	332	12	331	9	4
PL 482	548	67	32	0.12	0.39	3.8	0.053	2.4	0.62	18.75	2.4	0.053	3	347	67	336	11	335	8	3
PL 483	534	65	31	0.12	0.39	3.4	0.053	2.4	0.69	19.04	2.4	0.054	2.4	360	55	334	10	330	8	8
PL 488	644	82	37	0.13	0.39	3.8	0.052	2.7	0.71	19.07	2.7	0.054	2.6	378	59	336	11	329	9	13
PL 489	644	79	37	0.12	0.38	3.9	0.052	3.2	0.82	19.15	3.2	0.052	2.2	303	49	325	11	328	10	-8
PL 494	597	72	35	0.12	0.39	2.8	0.053	2.3	0.79	18.88	2.3	0.053	1.7	318	38	331	8	333	7	-5
PL 495	620	75	36	0.12	0.39	3.5	0.053	2.4	0.69	19	2.4	0.053	2.5	339	56	332	10	331	8	3
PL 500	601	72	35	0.12	0.38	3.3	0.053	2.3	0.67	19.04	2.3	0.052	2.4	287	56	325	9	330	7	-15
PL 501	629	77	36	0.12	0.39	3.9	0.052	2.7	0.67	19.42	2.7	0.054	2.8	384	64	331	11	324	8	16
PL 506	548	68	33	0.12	0.4	4.3	0.055	3.2	0.74	18.19	3.2	0.053	2.9	336	65	344	13	345	11	-3
PL 507	532	66	32	0.12	0.4	3.3	0.055	2.6	0.77	18.36	2.6	0.053	2.1	314	47	338	10	342	9	-9

Notes:

Ablation using a 213 nm wavelength laser, spot size of 25 microns, repetition rate of 10 Hz, and fluence of ~5 J/cm².

Isotope ratios and ages are reported without initial common Pb correction as gas blank-corrected mass 204 signals were irresolvable from zero.

Isotope ratio and apparent age errors do NOT include systematic calibration errors of 0.25% for the ²⁰⁷Pb/²⁰⁶Pb ratio, and 0.56% for the ²⁰⁶Pb/²³⁸U ratio (1s).

