

Appendix 3. U-Pb isotopic data for zircons from granitoid cobbles and two eastern Bogda Shan granitoids

Sample-site#	U ppm	Th ppm	Th/U	$^{238}\text{U}/^{206}\text{Pb}^*$	$^{238}\text{U}/^{206}\text{Pb}^{\dagger}$	$f_{206}(\%)$	$f_{206}(\%)$	Age (Ma) [†]	+/- Age (Ma)
96-ZB-403-1	226	145	0.64	15.49	0.91	0.63	0.3900	400	22
96-ZB-403-2	272	198	0.73	16.85	0.75	0.00	0.0000	371	16
96-ZB-403-3	127	55	0.44	15.34	0.39	0.02	0.0200	407	9
96-ZB-403-4	272	148	0.55	16.84	0.45	0.65	0.4200	369	9
96-ZB-403-5	440	393	0.89	15.75	0.37	0.10	0.1200	396	9
96-ZB-403-6	332	162	0.49	10.83	0.39	24.08	1.2100	436	16
96-ZB-403-7	220	101	0.46	16.92	0.27	0.02	0.0200	370	5
96-ZB-403-8	430	363	0.84	16.89	0.53	0.13	0.0700	370	11
96-ZB-403-9	235	171	0.73	12.76	0.30	0.29	0.2200	485	10
96-ZB-403-10	354	182	0.52	16.57	0.55	0.00	0.0000	378	12
96-ZB-403-11	537	410	0.76	15.83	0.50	0.03	0.0200	394	11
96-ZB-403-12	288	164	0.57	16.03	1.03	0.25	0.1300	389	24
96-ZB-403-13	608	380	0.63	16.06	0.26	0.50	0.2200	387	6
96-ZB-403-14	641	361	0.56	15.52	0.26	0.98	0.1800	398	6
96-ZB-403-15	409	210	0.51	17.11	0.77	1.17	0.3500	361	15
96-ZB-403-16	1840	1236	0.67	20.80	0.23	0.22	0.0022	302.6	3.3
96-ZB-403-17	2194	2594	1.18	19.91	0.23	0.04	0.0007	315.9	3.6
96-ZB-403-18	493	201	0.41	17.72	0.28	0.00	0.0020	353.9	5.5
96-ZB-403-19	683	402	0.59	17.70	0.27	0.02	0.0014	354.2	5.2
96-ZB-403-20	628	197	0.31	18.24	0.31	0.02	0.0015	344.2	5.7
96-ZB-403-21	248	179	0.72	17.01	0.31	0.00	0.0016	368.2	6.5
96-ZB-403-22	1007	380	0.38	17.19	0.20	0.00	0.0007	364.4	4.2
96-ZB-403-23	599	343	0.57	17.50	0.25	0.03	0.0021	358.3	4.9
96-ZB-403-24	1963	813	0.41	17.34	0.21	0.00	0.0006	361.5	4.2
96-ZB-403-25	225	146	0.65	17.17	0.29	0.01	0.0014	364.9	5.9
96-ZB-403-26	1030	488	0.47	18.78	0.22	0.03	0.0009	334.4	3.8
96-ZB-403-27	399	353	0.88	19.21	0.31	0.14	0.0029	327.2	5.1
96-ZB-403-28	404	348	0.86	18.86	0.25	0.01	0.0019	333.1	4.3
96-ZB-403-29	2946	1612	0.55	22.95	0.25	0.05	0.0011	275	2.9
96-ZB-403-30	919	188	0.20	14.67	0.17	0.00	0.0011	425	4.9
98-TS-2A-1	3798	5432	1.43	23.30	0.32	0.05	0.0011	270.9	3.7
98-TS-2A-2	1859	1241	0.67	24.80	0.28	0.03	0.0009	254.8	2.8
98-TS-2A-3	3046	2111	0.69	24.35	0.30	0.02	0.0007	259.5	3.2
98-TS-2A-4	815	380	0.47	24.98	0.33	0.01	0.0012	253.1	3.3
98-TS-2A-5	945	794	0.84	26.30	0.37	0.05	0.0019	240.6	3.3
98-TS-2A-6	2300	1215	0.53	25.29	0.29	0.01	0.0008	250	2.8
98-TS-2A-7	1638	865	0.53	24.49	0.30	0.00	0.0012	258	3.1
98-TS-2A-8	1702	1064	0.63	26.86	0.37	0.01	0.0011	235.6	3.2
98-TS-2A-9	882	639	0.73	25.63	0.37	0.22	0.0046	246.8	3.5

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98-TS-2A-10	1408	670	0.48	27.55	0.39	0.00	0.0013	229.9	3.2
98-TS-2A-11	1496	770	0.51	26.93	0.34	0.01	0.0011	235	2.9
98-TS-2A-12	1493	972	0.65	28.99	0.47	0.01	0.0019	218.6	3.5
98-TS-2A-13	713	452	0.63	24.18	0.36	0.01	0.0013	261.2	3.8
98-TS-2A-14	1203	735	0.61	25.57	0.33	0.00	0.0012	247.3	3.1
98-TS-2A-15	711	356	0.50	29.12	0.55	0.00	0.0020	217.7	4.1
98-TS-2A-16	5764	3291	0.57	28.19	0.36	0.09	0.0028	224.7	2.8
98-TS-2A-17	1611	932	0.58	27.02	0.37	0.07	0.0016	234.3	3.2
98-TS-14-2	17223	8218	0.48	19.06	0.20	0.00	0.000	329.6	3.3
98-TS-14-3	17604	8917	0.51	18.40	0.19	0.00	0.000	341.1	3.4
98-TS-14-4	18118	18161	1.00	21.01	0.26	0.00	0.0005	299.8	3.6
98-TS-14-5	14194	10056	0.71	17.75	0.18	0.00	0.0005	353.3	3.5
98-TS-14-6	18566	6514	0.35	19.95	0.21	0.00	0.0003	315.2	3.3
98-TS-14-7	4869	669	0.14	20.71	0.22	0.00	0.0005	304	3.1
98-TS-14-8	7177	1902	0.26	19.18	0.23	0.01	0.0007	327.6	3.9
98-TS-14-9	21717	7045	0.32	19.93	0.20	0.00	0.0003	315.7	3.1
98-TS-14-10	21212	10325	0.49	21.68	0.23	0.00	0.0003	290.7	3
98-TS-14-11	9730	4255	0.44	19.95	0.83	0.03	0.0003	315.3	12.9
98-TS-14-12	19431	10002	0.51	18.61	0.20	0.00	0.0003	337.5	3.6
98-TS-14-13	19791	16702	0.84	19.36	0.20	0.01	0.0004	324.6	3.3
98-TS-14-14	2862	3887	1.36	17.39	0.43	0.00	0.0013	360.4	8.6
98-TS-14-15	6038	2525	0.42	20.13	0.22	0.02	0.0008	312.5	3.4

All errors are 1σ . All Pb isotope ratios are uncorrected for common Pb.

*f206 is the percentage of common Pb relative to total measured Pb based on the $^{204}\text{Pb}/^{206}\text{Pb}$ ratio.

†Age is the $^{206}\text{Pb}/^{238}\text{U}$ age after correction for common Pb as given as f206. $^{206}\text{Pb}/^{238}\text{U}$ ages are referenced to the 1099 Ma Duluth gabbroic anorthosite (Paces and Miller 1993).

U and Th concentrations were normalized to the ANU SL13 zircon standard (238 ppm U, and 21 ppm Th; Claué-Long et al. 1995). Common Pb was determined from the measured $^{204}\text{Pb}/^{206}\text{Pb}$ of the zircon and $^{206}\text{Pb}/^{204}\text{Pb}$, $^{207}\text{Pb}/^{204}\text{Pb}$ composition based on the Pb growth