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ESI Data Table 1: Analytical results for the U-Pb age of zircon crystals

Date	Standard	Sample	Conditions	No.	$^{207}Pb/^{235}U$	1SD	$^{206}Pb/^{238}U$	1SD	Error correlation	$^{207}Pb/^{235}U$	2SD	$^{206}Pb/^{238}U$	2SD	$^{207}Pb/^{206}Pb$	2SD
			Dia./Rep./WL.		Ratio		Ratio			Age (Ma)		Age (Ma)		Age (Ma)	
20140320	91500	TEMORA2	50µm/2Hz/266nm	1	0.5164	0.0137	0.0675	0.0014	0.7869	422.8	27.6	421.1	18.1	431.7	14.1
20140320	91500	TEMORA2	50µm/2Hz/266nm	2	0.5143	0.0146	0.0672	0.0015	0.7754	421.3	29.4	419.1	19.0	433.2	15.5
20140320	91500	TEMORA2	50µm/2Hz/266nm	3	0.5196	0.0169	0.0680	0.0015	0.6583	424.9	34.1	423.8	18.8	430.6	21.1
20140320	91500	TEMORA2	50µm/2Hz/266nm	4	0.4964	0.0163	0.0655	0.0016	0.7557	409.2	32.8	409.0	20.9	410.7	17.6
20140320	91500	TEMORA2	50µm/2Hz/266nm	5	0.5125	0.0124	0.0672	0.0013	0.7844	420.1	25.0	419.2	16.4	425.4	12.8
20140403	91500	TEMORA2	50µm/2Hz/266nm	6	0.5069	0.0222	0.0663	0.0027	0.9218	416.4	44.5	413.9	34.4	429.9	14.6
20140403	91500	TEMORA2	50µm/2Hz/266nm	7	0.5031	0.0222	0.0662	0.0028	0.9614	413.8	44.5	413.5	36.1	415.4	10.1
20140403	91500	TEMORA2	50µm/2Hz/266nm	8	0.5079	0.0238	0.0668	0.0030	0.9563	417.0	47.8	416.7	38.5	418.8	11.5
20140403	91500	TEMORA2	50µm/2Hz/266nm	9	0.5096	0.0177	0.0664	0.0021	0.8937	418.2	35.6	414.6	26.6	437.6	13.6
20140403	91500	TEMORA2	50µm/2Hz/266nm	10	0.5044	0.0183	0.0658	0.0021	0.8870	414.7	36.9	410.9	27.3	435.8	14.6
20140421	91500	TEMORA2	50µm/2Hz/266nm	11	0.4992	0.0184	0.0660	0.0021	0.8853	411.1	37.0	411.8	27.7	407.5	14.0
20140421	91500	TEMORA2	50µm/2Hz/266nm	12	0.5083	0.0188	0.0666	0.0021	0.8527	417.3	37.8	415.7	27.0	426.0	16.4
20140421	91500	TEMORA2	50µm/2Hz/266nm	13	0.5119	0.0218	0.0666	0.0022	0.7662	419.7	43.7	415.7	28.0	442.0	24.2
20140421	91500	TEMORA2	50µm/2Hz/266nm	14	0.5116	0.0189	0.0676	0.0020	0.8059	419.5	38.0	421.4	25.9	409.1	17.9
20140421	91500	TEMORA2	50µm/2Hz/266nm	15	0.5120	0.0223	0.0673	0.0025	0.8585	419.8	44.9	419.7	32.4	420.5	18.8
20140421	91500	TEMORA2	50µm/2Hz/266nm	16	0.5088	0.0176	0.0677	0.0020	0.8430	417.6	35.5	422.3	25.5	392.0	14.6
20140422	91500	TEMORA2	50µm/2Hz/266nm	17	0.5092	0.0162	0.0672	0.0019	0.8960	417.9	32.6	419.5	24.7	409.3	11.6
20140422	91500	TEMORA2	50µm/2Hz/266nm	18	0.4802	0.0152	0.0634	0.0018	0.9125	398.2	30.7	396.4	23.6	409.1	10.6
20140422	91500	TEMORA2	50µm/2Hz/266nm	19	0.4814	0.0141	0.0628	0.0013	0.7323	399.0	28.5	392.8	17.4	435.2	17.4
20140422	91500	TEMORA2	50µm/2Hz/266nm	20	0.4846	0.0142	0.0641	0.0017	0.9142	401.2	28.7	400.3	22.2	406.7	9.7
20140422	91500	TEMORA2	50µm/2Hz/266nm	21	0.5257	0.0169	0.0684	0.0016	0.7318	428.9	34.0	426.6	20.7	441.2	19.3
20140422	91500	TEMORA2	50µm/2Hz/266nm	22	0.5306	0.0178	0.0685	0.0019	0.8149	432.2	35.9	427.0	24.2	460.1	17.9
20140422	91500	TEMORA2	50µm/2Hz/266nm	23	0.5254	0.0136	0.0688	0.0016	0.8913	428.8	27.4	428.7	20.4	429.2	10.1
20140422	91500	TEMORA2	50µm/2Hz/266nm	24	0.5158	0.0152	0.0680	0.0018	0.8966	422.4	30.7	424.2	23.2	412.2	10.8
20140422	91500	TEMORA2	50µm/2Hz/266nm	25	0.5235	0.0172	0.0682	0.0019	0.8609	427.5	34.6	425.4	24.8	438.6	14.6
20140422	91500	TEMORA2	50µm/2Hz/266nm	26	0.5141	0.0140	0.0677	0.0017	0.9037	421.2	28.2	422.2	21.4	415.4	9.7
20140422	91500	TEMORA2	50µm/2Hz/266nm	27	0.5212	0.0151	0.0682	0.0018	0.8899	425.9	30.5	425.4	22.7	428.9	11.4
20140422	91500	TEMORA2	50µm/2Hz/266nm	28	0.5309	0.0133	0.0691	0.0014	0.8324	432.4	26.9	430.6	18.6	442.2	12.3
20140620	91500	TEMORA2	50µm/2Hz/266nm	29	0.5316	0.0197	0.0683	0.0020	0.8059	432.9	39.6	425.8	26.2	470.8	20.6
20140620	91500	TEMORA2	50µm/2Hz/266nm	30	0.5103	0.0233	0.0674	0.0029	0.9535	418.6	46.8	420.3	37.8	409.4	11.3
20140620	91500	TEMORA2	50µm/2Hz/266nm	31	0.5148	0.0167	0.0678	0.0020	0.9070	421.6	33.6	422.9	25.7	414.5	11.3
20140620	91500	TEMORA2	50µm/2Hz/266nm	32	0.5157	0.0232	0.0665	0.0022	0.7507	422.3	46.5	414.9	28.9	462.7	27.5
20140620	91500	TEMORA2	50µm/2Hz/266nm	33	0.5194	0.0249	0.0671	0.0023	0.7077	424.8	49.9	418.7	29.3	458.0	31.0
20140620	91500	TEMORA2	50µm/2Hz/266nm	34	0.5045	0.0166	0.0655	0.0017	0.7732	414.7	33.5	409.0	21.5	446.6	18.7
20140620	91500	TEMORA2	50µm/2Hz/266nm	35	0.4947	0.0190	0.0641	0.0021	0.8486	408.1	38.2	400.3	26.9	452.5	18.4
20140620	91500	TEMORA2	50µm/2Hz/266nm	36	-	-	-	-	-	-	-	-	-	-	-
20140620	91500	TEMORA2	50µm/2Hz/266nm	37	0.5024	0.0193	0.0654	0.0018	0.7349	413.3	38.8	408.5	23.7	440.3	22.9
20140620	91500	TEMORA2	50µm/2Hz/266nm	38	0.5020	0.0179	0.0660	0.0021	0.9067	413.1	36.1	411.8	27.5	420.2	12.7
		Reference age: 416.78 ± 0.33 Ma (ID-TIMS), Black et al. (2004)							**Weighted mean =**	**418.7**	**5.6**	**417.0**	**3.9**	**423.5**	**2.3**
20140620	91500	TEMORA2	30µm/10Hz/266nm	1	0.5183	0.0235	0.0682	0.0027	0.8801	424.0	47.3	425.0	35.1	418.3	18.0
20140620	91500	TEMORA2	30µm/10Hz/266nm	2	0.5027	0.0213	0.0662	0.0023	0.8219	413.5	42.7	413.2	29.6	415.3	20.0
20140620	91500	TEMORA2	30µm/10Hz/266nm	3	0.5117	0.0225	0.0669	0.0025	0.8624	419.6	45.2	417.3	32.7	432.2	19.2
20140620	91500	TEMORA2	30µm/10Hz/266nm	4	0.5227	0.0227	0.0683	0.0026	0.8774	427.0	45.7	426.1	33.6	431.8	18.0
20140620	91500	TEMORA2	30µm/10Hz/266nm	5	0.5210	0.0283	0.0684	0.0034	0.9028	425.9	56.7	426.5	43.2	422.2	19.7
20140620	91500	TEMORA2	30µm/10Hz/266nm	6	0.5059	0.0239	0.0665	0.0028	0.8927	415.7	48.1	415.1	36.2	418.9	17.9
20140620	91500	TEMORA2	30µm/10Hz/266nm	7	0.5079	0.0256	0.0664	0.0027	0.7956	417.1	51.3	414.2	34.3	433.0	26.4
20140620	91500	TEMORA2	30µm/10Hz/266nm	8	0.5129	0.0227	0.0671	0.0024	0.8017	420.4	45.6	418.7	30.7	429.4	22.7
20140620	91500	TEMORA2	30µm/10Hz/266nm	9	0.5138	0.0243	0.0669	0.0025	0.8044	421.0	48.8	417.2	32.8	442.1	24.9
20140620	91500	TEMORA2	30µm/10Hz/266nm	10	0.5186	0.0266	0.0674	0.0029	0.8425	424.2	53.3	420.3	37.4	445.6	24.6
20140630	91500	TEMORA2	30µm/10Hz/266nm	11	0.4829	0.0280	0.0634	0.0033	0.9049	400.1	56.1	396.5	42.8	420.6	20.8
20140630	91500	TEMORA2	30µm/10Hz/266nm	12	-	-	-	-	-	-	-	-	-	-	-
20140630	91500	TEMORA2	30µm/10Hz/266nm	13	0.5230	0.0294	0.0686	0.0035	0.9052	427.2	58.8	427.9	44.9	423.3	20.2
20140630	91500	TEMORA2	30µm/10Hz/266nm	14	0.5168	0.0311	0.0681	0.0039	0.9519	423.0	62.3	424.5	50.3	414.7	15.3
20140630	91500	TEMORA2	30µm/10Hz/266nm	15	0.5079	0.0260	0.0664	0.0030	0.8689	417.0	52.1	414.2	38.0	432.6	21.9
20140630	91500	TEMORA2	30µm/10Hz/266nm	16	-	-	-	-	-	-	-	-	-	-	-
20140630	91500	TEMORA2	30µm/10Hz/266nm	17	0.5233	0.0287	0.0689	0.0033	0.8792	427.4	57.5	429.6	42.8	415.0	21.7
20140630	91500	TEMORA2	30µm/10Hz/266nm	18	0.5114	0.0189	0.0671	0.0023	0.9300	419.4	38.0	419.0	29.7	421.8	11.4
20140630	91500	TEMORA2	30µm/10Hz/266nm	19	0.5123	0.0284	0.0668	0.0032	0.8529	420.0	56.9	416.9	40.7	437.3	25.3
20140630	91500	TEMORA2	30µm/10Hz/266nm	20	0.5124	0.0257	0.0668	0.0030	0.8893	420.0	51.4	416.8	38.3	437.6	20.0
		Reference age: 416.78 ± 0.33 Ma (ID-TIMS), Black et al. (2004)							**Weighted mean =**	**420.0**	**11.7**	**418.5**	**8.5**	**425.4**	**4.5**
20140708	91500	TEMORA2	30µmRR/25Hz/200nn	1	0.5090	0.0176	0.0670	0.0019	0.8305	417.8	35.5	418.3	24.8	414.8	16.0
20140708	91500	TEMORA2	30µmRR/25Hz/200nn	2	0.5144	0.0174	0.0675	0.0018	0.7749	421.4	35.0	421.0	22.8	423.4	18.1
20140708	91500	TEMORA2	30µmRR/25Hz/200nn	3	0.5103	0.0164	0.0670	0.0018	0.8415	418.6	33.0	418.0	23.3	421.9	14.6
20140708	91500	TEMORA2	30µmRR/25Hz/200nn	4	0.5133	0.0166	0.0670	0.0015	0.7151	420.7	33.5	417.8	20.0	436.4	19.7
20140708	91500	TEMORA2	30µmRR/25Hz/200nn	5	0.5155	0.0249	0.0670	0.0018	0.5473	422.2	50.0	418.0	22.8	445.2	36.0
20140708	91500	TEMORA2	30µmRR/25Hz/200nn	6	0.5119	0.0186	0.0668	0.0016	0.6502	419.8	37.4	416.6	20.3	436.9	24.1
20140708	91500	TEMORA2	30µmRR/25Hz/200nn	7	0.5083	0.0180	0.0664	0.0018	0.7441	417.3	36.3	414.7	22.6	432.0	20.5
20140708	91500	TEMORA2	30µmRR/25Hz/200nn	8	0.5084	0.0201	0.0669	0.0018	0.6802	417.4	40.5	417.4	23.2	417.1	24.2
20140708	91500	TEMORA2	30µmRR/25Hz/200nn	9	0.5061	0.0180	0.0662	0.0015	0.6529	415.8	36.3	412.9	19.8	431.8	23.3
20140708	91500	TEMORA2	30µmRR/25Hz/200nn	10	0.5209	0.0174	0.0682	0.0015	0.6718	425.7	35.0	425.4	19.7	427.8	21.1
20140708	91500	TEMORA2	30µmRR/25Hz/200nn	11	0.5083	0.0202	0.0665	0.0014	0.5127	417.3	40.7	415.1	17.5	429.4	29.3
20140708	91500	TEMORA2	30µmRR/25Hz/200nn	12	0.5106	0.0136	0.0669	0.0013	0.7154	418.9	27.5	417.2	16.4	428.1	16.0
20140708	91500	TEMORA2	30µmRR/25Hz/200nn	13	0.5108	0.0122	0.0670	0.0013	0.7976	419.0	24.6	418.2	16.5	423.3	12.2
20140708	91500	TEMORA2	30µmRR/25Hz/200nn	14	0.5064	0.0167	0.0667	0.0015	0.6870	416.1	33.6	416.1	19.4	415.6	19.9
20140708	91500	TEMORA2	30µmRR/25Hz/200nn	15	0.5124	0.0169	0.0671	0.0014	0.6126	420.1	34.0	418.6	17.5	428.4	22.3
20140708	91500	TEMORA2	30µmRR/25Hz/200nn	16	0.5055	0.0173	0.0669	0.0019	0.8342	415.4	34.7	417.7	24.6	402.5	15.1
20140708	91500	TEMORA2	30µmRR/25Hz/200nn	17	0.5055	0.0179	0.0672	0.0019	0.7761	415.4	36.1	419.1	23.8	394.6	17.7
20140708	91500	TEMORA2	30µmRR/25Hz/200nn	18	0.5096	0.0162	0.0669	0.0015	0.7030	418.2	32.7	417.7	19.3	420.7	19.1
20140708	91500	TEMORA2	30µmRR/25Hz/200nn	19	0.5061	0.0141	0.0668	0.0015	0.7960	415.8	28.5	416.7	19.1	410.7	13.9
20140708	91500	TEMORA2	30µmRR/25Hz/200nn	20	0.5094	0.0145	0.0668	0.0015	0.7877	418.1	29.2	417.0	19.3	424.0	14.8
		Reference age: 416.78 ± 0.33 Ma (ID-TIMS), Black et al. (2004)							**Weighted mean =**	**418.5**	**7.5**	**417.6**	**4.5**	**420.7**	**4.0**
20140422	91500	Prešovice	50µm/2Hz/266nm	1	0.3876	0.0093	0.0533	0.0010	0.7643	332.6	18.8	334.5	12.6	319.2	9.9
20140422	91500	Prešovice	50µm/2Hz/266nm	2	0.3801	0.0108	0.0522	0.0011	0.7472	327.1	21.8	328.1	14.3	319.9	12.1
20140422	91500	Prešovice	50µm/2Hz/266nm	3	0.3890	0.0097	0.0531	0.0011	0.8050	333.6	19.5	333.4	13.7	335.1	9.9
20140422	91500	Prešovice	50µm/2Hz/266nm	4	0.3868	0.0101	0.0532	0.0011	0.7784	332.0	20.5	334.2	14.0	317.0	10.4
20140422	91500	Prešovice	50µm/2Hz/266nm	5	0.3894	0.0112	0.0533	0.0014	0.9410	333.9	22.7	334.8	18.6	327.7	6.4
20140422	91500	Prešovice	50µm/2Hz/266nm	6	0.3885	0.0078	0.0533	0.0010	0.9069	333.3	15.8	334.5	12.5	324.2	5.5
20140422	91500	Prešovice	50µm/2Hz/266nm	7	0.3913	0.0098	0.0536	0.0013	0.9380	335.3	19.9	336.7	16.3	326.1	5.7
20140422	91500	Prešovice	50µm/2Hz/266nm	8	0.3892	0.0086	0.0534	0.0011	0.9236	333.8	17.4	335.4	14.0	322.6	5.5
20140422	91500	Prešovice	50µm/2Hz/266nm	9	0.3922	0.0107	0.0537	0.0013	0.9140	336.0	21.7	337.0	17.3	328.9	7.3
20140422	91500	Prešovice	50µm/2Hz/266nm	10	0.3901	0.0092	0.0533	0.0012	0.9192	334.4	18.6	334.5	14.9	333.7	6.2
20140422	91500	Prešovice	50µm/2Hz/266nm	11	0.3958	0.0086	0.0539	0.0011	0.9056	338.6	17.3	338.6	13.6	339.0	6.2
20140422	91500	Prešovice	50µm/2Hz/266nm	12	0.3954	0.0090	0.0540	0.0011	0.9265	338.3	18.3	338.8	14.7	334.7	5.8
20140422	91500	Prešovice	50µm/2Hz/266nm	13	0.3951	0.0097	0.0539	0.0012	0.9233	338.1	19.6	338.6	15.7	334.5	6.3
20140422	91500	Prešovice	50µm/2Hz/266nm	14	0.3944	0.0083	0.0539	0.0010	0.8936	337.5	16.8	338.4	13.1	331.5	6.3
20140422	91500	Prešovice	50µm/2Hz/266nm	15	0.3929	0.0107	0.0537	0.0014	0.9536	336.5	21.7	337.1	18.0	332.2	5.5
20140422	91500	Prešovice	50µm/2Hz/266nm	16	0.3973	0.0108	0.0543	0.0014	0.9457	339.7	21.8	340.9	18.0	331.6	5.9
20140630	91500	Prešovice	50µm/2Hz/266nm	17	0.3937	0.0160	0.0538	0.0019	0.8527	337.1	32.2	337.5	23.9	333.8	14.1
20140630	91500	Prešovice	50µm/2Hz/266nm	18	0.3894	0.0140	0.0533	0.0016	0.8431	333.9	28.3	334.4	20.8	330.0	12.8
20140630	91500	Prešovice	50µm/2Hz/266nm	19	0.3999	0.0159	0.0534	0.0018	0.8504	341.6	32.0	335.6	23.3	382.1	16.0
20140630	91500	Prešovice	50µm/2Hz/266nm	20	0.4017	0.0150	0.0544	0.0018	0.8710	342.9	30.3	341.8	22.8	350.4	12.9
20140630	91500	Prešovice	50µm/2Hz/266nm	21	0.3980	0.0148	0.0542	0.0016	0.8107	340.2	29.9	340.4	21.1	339.3	14.8
20140630	91500	Prešovice	50µm/2Hz/266nm	22	0.4099	0.0162	0.0558	0.0020	0.8919	348.8	32.5	350.2	25.3	339.2	12.1
20140630	91500	Prešovice	50µm/2Hz/266nm	23	-	-	-	-	-	-	-	-	-	-	-
20140630	91500	Prešovice	50µm/2Hz/266nm	24	0.4089	0.0134	0.0554	0.0015	0.8370	348.1	27.0	347.4	19.6	352.9	12.7
20140630	91500	Prešovice	50µm/2Hz/266nm	25	0.4064	0.0154	0.0553	0.0019	0.9000	346.3	30.9	346.7	24.2	343.5	11.3
20140630	91500	Prešovice	50µm/2Hz/266nm	26	-	-	-	-	-	-	-	-	-	-	-
20140630	91500	Prešovice	50µm/2Hz/266nm	27	0.3959	0.0130	0.0542	0.0015	0.8437	338.7	26.3	340.1	19.4	328.6	11.6
		Reference age: 337.13 ± 0.37 Ma (ID-TIMS), Black et al. (2005)							**Weighted mean =**	**336.4**	**4.3**	**336.9**	**3.3**	**331.4**	**1.5**
20140711	91500	Prešovice	30µmRR/25Hz/200nn	1	0.3843	0.0158	0.0526	0.0020	0.9048	330.2	31.9	330.4	25.3	329.0	11.6
20140711	91500	Prešovice	30µmRR/25Hz/200nn	2	0.3899	0.0163	0.0531	0.0020	0.8908	334.3	32.8	333.6	25.5	339.1	12.9
20140711	91500	Prešovice	30µmRR/25Hz/200nn	3	0.3899	0.0163	0.0534	0.0021	0.9356	334.3	32.8	335.5	26.9	326.2	9.6
20140711	91500	Prešovice	30µmRR/25Hz/200nn	4	0.3858	0.0137	0.0527	0.0017	0.9157	331.3	27.7	331.0	22.1	333.3	9.5
20140711	91500	Prešovice	30µmRR/25Hz/200nn	5	0.3907	0.0132	0.0533	0.0016	0.9113	334.8	26.6	334.5	21.1	337.2	9.4

ESI Table 1. continue

Date	Standard	Sample	Conditions	No.	$^{207}Pb/^{235}U$	1SD	$^{206}Pb/^{238}U$	1SD	Error correlation	$^{207}Pb/^{235}U$	2SD	$^{206}Pb/^{238}U$	2SD	$^{207}Pb/^{206}Pb$	2SD
			Dia./Rep./WL.		Ratio		Ratio			Age (Ma)		Age (Ma)		Age (Ma)	
20140711	91500	Prešovice	30µmRR/25Hz/200nn	6	0.3918	0.0128	0.0536	0.0015	0.8581	335.7	25.8	336.6	19.4	328.9	11.0
20140711	91500	Prešovice	30µmRR/25Hz/200nn	7	0.3884	0.0130	0.0533	0.0016	0.8822	333.2	26.2	334.8	20.3	322.1	10.2
20140711	91500	Prešovice	30µmRR/25Hz/200nn	8	0.3882	0.0113	0.0532	0.0014	0.8851	333.1	22.9	334.4	17.7	323.8	8.8
20140711	91500	Prešovice	30µmRR/25Hz/200nn	9	0.3903	0.0116	0.0533	0.0014	0.8917	334.6	23.4	334.5	18.2	335.0	9.0
20140711	91500	Prešovice	30µmRR/25Hz/200nn	10	0.3873	0.0112	0.0530	0.0014	0.9063	332.4	22.6	332.9	17.9	328.7	8.0
20140711	91500	Prešovice	30µmRR/25Hz/200nn	11	0.3883	0.0107	0.0532	0.0014	0.9213	333.2	21.7	334.2	17.4	325.9	7.0
20140711	91500	Prešovice	30µmRR/25Hz/200nn	12	0.3898	0.0124	0.0533	0.0016	0.9233	334.2	25.0	334.5	20.1	332.5	8.1
20140711	91500	Prešovice	30µmRR/25Hz/200nn	13	0.3890	0.0117	0.0532	0.0015	0.9074	333.6	23.6	334.3	18.7	329.0	8.3
20140711	91500	Prešovice	30µmRR/25Hz/200nn	14	0.3903	0.0151	0.0534	0.0019	0.9351	334.6	30.4	335.1	24.8	331.0	9.1
20140711	91500	Prešovice	30µmRR/25Hz/200nn	15	0.3913	0.0086	0.0535	0.0010	0.8606	335.3	17.5	335.8	13.1	331.7	7.5
20140711	91500	Prešovice	30µmRR/25Hz/200nn	16	0.3883	0.0107	0.0531	0.0013	0.9075	333.2	21.6	333.6	17.1	330.1	7.7
20140711	91500	Prešovice	30µmRR/25Hz/200nn	17	0.3921	0.0113	0.0535	0.0014	0.9166	335.9	22.8	336.1	18.2	334.7	7.7
20140711	91500	Prešovice	30µmRR/25Hz/200nn	18	0.3906	0.0116	0.0534	0.0015	0.9224	334.8	23.5	335.6	18.9	329.1	7.6
20140711	91500	Prešovice	30µmRR/25Hz/200nn	19	0.3926	0.0133	0.0537	0.0017	0.9205	336.3	26.8	336.9	21.5	331.7	8.8
20140711	91500	Prešovice	30µmRR/25Hz/200nn	20	0.3912	0.0097	0.0534	0.0012	0.8700	335.3	19.6	335.1	14.8	336.1	8.2
20140711	91500	Prešovice	30µmRR/25Hz/200nn	21	0.3913	0.0096	0.0535	0.0011	0.8641	335.3	19.3	335.7	14.5	332.4	8.2
20140711	91500	Prešovice	30µmRR/25Hz/200nn	22	0.3884	0.0108	0.0531	0.0013	0.9005	333.2	21.8	333.3	17.1	332.7	8.0
20140711	91500	Prešovice	30µmRR/25Hz/200nn	23	0.3888	0.0093	0.0532	0.0011	0.8713	333.5	18.7	334.2	14.2	328.4	7.7
20140711	91500	Prešovice	30µmRR/25Hz/200nn	24	0.3900	0.0139	0.0533	0.0018	0.9477	334.4	28.1	334.7	23.3	332.0	7.6
20140711	91500	Prešovice	30µmRR/25Hz/200nn	25	0.3915	0.0111	0.0533	0.0014	0.9333	335.4	22.4	334.8	18.2	339.8	6.9
20140711	91500	Prešovice	30µmRR/25Hz/200nn	26	0.3921	0.0105	0.0531	0.0012	0.8750	335.9	21.2	333.6	16.1	351.8	9.1
20140711	91500	Prešovice	30µmRR/25Hz/200nn	27	0.3948	0.0102	0.0532	0.0012	0.8907	337.9	20.5	334.3	15.7	362.2	8.5
20140711	91500	Prešovice	30µmRR/25Hz/200nn	28	0.3908	0.0092	0.0534	0.0011	0.8870	334.9	18.6	335.5	14.4	331.1	7.2
20140711	91500	Prešovice	30µmRR/25Hz/200nn	29	0.3914	0.0091	0.0534	0.0011	0.9040	335.4	18.4	335.5	14.5	334.7	6.7
20140711	91500	Prešovice	30µmRR/25Hz/200nn	30	0.3907	0.0092	0.0534	0.0011	0.8880	334.8	18.7	335.4	14.5	330.8	7.2
		Reference age: 337.13 ± 0.37 Ma (ID-TIMS), Black et al. (2005)							**Weighted mean =**	**334.5**	**4.1**	**334.7**	**3.2**	**333.1**	**1.5**
20140421	91500	OD3	50µm/4Hz/266nm	1	0.0398	0.0048	0.0051	0.0001	0.2048	39.6	9.7	32.8	1.6	472.8	111.6
20140421	91500	OD3	50µm/4Hz/266nm	2	0.0412	0.0062	0.0051	0.0001	0.1649	41.0	12.5	32.8	1.6	549.3	162.7
20140421	91500	OD3	50µm/4Hz/266nm	3	0.0406	0.0060	0.0052	0.0001	0.1665	40.4	12.1	33.4	1.6	480.2	139.1
20140421	91500	OD3	50µm/4Hz/266nm	4	-	-	-	-	-	-	-	-	-	-	-
20140421	91500	OD3	50µm/4Hz/266nm	5	0.0413	0.0058	0.0052	0.0002	0.2378	41.1	11.8	33.2	2.2	528.9	145.1
20140421	91500	OD3	50µm/4Hz/266nm	6	0.0386	0.0061	0.0052	0.0001	0.1260	38.4	12.3	33.1	1.3	381.5	119.0
20140421	91500	OD3	50µm/4Hz/266nm	7	0.0387	0.0041	0.0053	0.0002	0.3178	38.6	8.3	33.9	2.3	341.7	68.9
20140421	91500	OD3	50µm/4Hz/266nm	8	0.0386	0.0042	0.0052	0.0001	0.2221	38.5	8.4	33.6	1.6	353.9	74.4
20140421	91500	OD3	50µm/4Hz/266nm	9	0.0379	0.0062	0.0052	0.0001	0.1443	37.7	12.6	33.3	1.6	331.2	107.8
20140421	91500	OD3	50µm/4Hz/266nm	10	0.0369	0.0037	0.0052	0.0001	0.1870	36.8	7.6	33.6	1.3	249.0	49.4
20140421	91500	OD3	50µm/4Hz/266nm	11	0.0377	0.0025	0.0051	0.0001	0.3421	37.6	5.1	33.1	1.5	336.2	42.5
20140421	91500	OD3	50µm/4Hz/266nm	12	0.0357	0.0020	0.0051	0.0001	0.3959	35.7	4.1	33.0	1.5	217.6	22.5
20140421	91500	OD3	50µm/4Hz/266nm	13	0.0426	0.0075	0.0052	0.0001	0.1594	42.3	15.1	33.5	1.9	575.6	198.9
20140421	91500	OD3	50µm/4Hz/266nm	14	0.0385	0.0049	0.0052	0.0001	0.1576	38.4	10.0	33.6	1.4	346.2	87.4
20140421	91500	OD3	50µm/4Hz/266nm	15	0.0404	0.0050	0.0052	0.0001	0.2101	40.2	10.1	33.6	1.7	452.4	109.1
20140630	91500	OD3	50µm/4Hz/266nm	16	-	-	-	-	-	-	-	-	-	-	-
20140630	91500	OD3	50µm/4Hz/266nm	17	0.0383	0.0031	0.0051	0.0002	0.4481	38.1	6.2	32.8	2.4	386.2	55.1
20140630	91500	OD3	50µm/4Hz/266nm	18	0.0430	0.0055	0.0053	0.0003	0.4790	42.8	11.1	34.3	4.2	548.9	122.2
20140630	91500	OD3	50µm/4Hz/266nm	19	0.0420	0.0040	0.0051	0.0002	0.3621	41.8	8.1	32.7	2.3	597.8	106.1
20140630	91500	OD3	50µm/4Hz/266nm	20	0.0407	0.0038	0.0052	0.0002	0.4388	40.5	7.8	33.5	2.8	477.7	81.0
20140630	91500	OD3	50µm/4Hz/266nm	21	0.0417	0.0034	0.0052	0.0002	0.5260	41.5	6.9	33.3	2.8	546.3	75.3
20140630	91500	OD3	50µm/4Hz/266nm	22	0.0409	0.0044	0.0052	0.0002	0.3019	40.7	9.0	33.8	2.2	474.1	97.7
20140630	91500	OD3	50µm/4Hz/266nm	23	0.0421	0.0053	0.0052	0.0002	0.3274	41.8	10.8	33.6	2.8	541.5	129.7
20140630	91500	OD3	50µm/4Hz/266nm	24	0.0390	0.0051	0.0051	0.0002	0.3117	38.9	10.2	33.0	2.7	413.9	101.9
20140630	91500	OD3	50µm/4Hz/266nm	25	0.0422	0.0061	0.0053	0.0003	0.3633	42.0	12.4	33.9	3.6	531.0	143.2
		Reference age: 33.0 ± 0.1 Ma (average of SHRIMP and LA-ICP-MS); Iwano et al. (2013)							**Weighted mean =**	**38.9**	**1.7**	**33.3**	**0.4**	**345.1**	**14.0**
20140711	91500	Prešovice	30µmRR/25Hz/200nn	1	0.0362	0.0089	0.0052	0.0002	0.1270	36.1	18.1	33.1	2.1	237.0	116.2
20140711	91500	Prešovice	30µmRR/25Hz/200nn	2	0.0337	0.0062	0.0051	0.0001	0.1568	33.6	12.6	33.1	1.9	70.8	25.8
20140711	91500	Prešovice	30µmRR/25Hz/200nn	3	0.0353	0.0063	0.0051	0.0001	0.1387	35.2	12.8	33.0	1.7	188.1	66.9
20140711	91500	Prešovice	30µmRR/25Hz/200nn	4	0.0342	0.0041	0.0051	0.0001	0.2414	34.2	8.4	32.8	1.9	132.0	30.9
20140711	91500	Prešovice	30µmRR/25Hz/200nn	5	0.0331	0.0043	0.0051	0.0001	0.1931	33.1	8.7	32.9	1.7	46.7	11.9
20140711	91500	Prešovice	30µmRR/25Hz/200nn	6	0.0345	0.0036	0.0051	0.0001	0.2768	34.4	7.2	33.0	1.9	136.6	27.1
20140711	91500	Prešovice	30µmRR/25Hz/200nn	7	0.0343	0.0028	0.0051	0.0001	0.3174	34.3	5.7	33.0	1.7	126.5	19.8
20140711	91500	Prešovice	30µmRR/25Hz/200nn	8	0.0338	0.0026	0.0051	0.0001	0.3450	33.8	5.2	32.7	1.7	112.4	16.0
20140711	91500	Prešovice	30µmRR/25Hz/200nn	9	0.0339	0.0027	0.0051	0.0001	0.3451	33.9	5.5	32.7	1.8	115.8	17.3
20140711	91500	Prešovice	30µmRR/25Hz/200nn	10	0.0342	0.0024	0.0051	0.0001	0.3377	34.1	4.9	32.9	1.6	116.8	15.6
20140711	91500	Prešovice	30µmRR/25Hz/200nn	11	0.0352	0.0031	0.0051	0.0001	0.2148	35.1	6.3	32.9	1.2	190.7	32.9
20140711	91500	Prešovice	30µmRR/25Hz/200nn	12	0.0344	0.0055	0.0051	0.0001	0.1445	34.3	11.2	32.8	1.5	146.4	46.5
20140711	91500	Prešovice	30µmRR/25Hz/200nn	13	0.0336	0.0062	0.0051	0.0001	0.1222	33.5	12.5	32.8	1.5	89.7	32.6
20140711	91500	Prešovice	30µmRR/25Hz/200nn	14	0.0336	0.0036	0.0051	0.0001	0.2202	33.5	7.4	32.7	1.6	94.7	20.0
20140711	91500	Prešovice	30µmRR/25Hz/200nn	15	0.0345	0.0037	0.0051	0.0001	0.2342	34.4	7.5	32.9	1.7	145.0	30.1
		Reference age: 33.0 ± 0.1 Ma (average of SHRIMP and LA-ICP-MS); Iwano et al. (2013)							**Weighted mean =**	**34.1**	**1.9**	**32.9**	**0.4**	**108.5**	**5.7**

Note: Dia.: diameter; Rep.: repetition rate; WL.: wavelength, 1SD: 1-standard deviation; 2SD: 2-standard deviation; bold face: weighted average and error; Ma: million years ago

Decay constant used for the age calculations were 9.8485×10^{-10} yr^{-1} for ^{235}U and 1.55125×10^{-10} yr^{-1} for ^{238}U.

Weighted mean was calculated by the following equation: $x \pm \sigma = [\Sigma(xi/\sigma i)^2]^{1/2}[\Sigma\ (1/\sigma i)^2]^{-1/2} \pm [\Sigma\ (1/\sigma i)^2]^{-1/2}$.