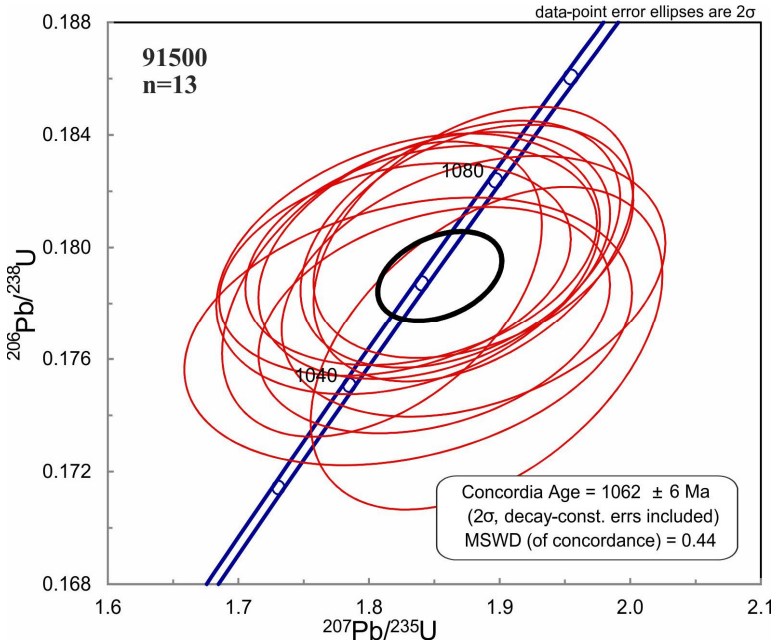
Zircon U-Pb isotope data for the rocks of Semeitau and Delbegetei massifs

1. Semeitau massif. Porphyry monzonite, sample K21-18.

N an	Th/U	Isotope ratios		Rho	Age, Ma		D, %
		$^{207}Pb / ^{235}U$	$^{206}Pb / ^{238}U$		$^{207}Pb / ^{235}U$	$^{206}Pb / ^{238}U$	
Zircons of 1st group							
K21-18_01	1.63	12.50 ± 1.40	0.132 ± 0.012	0.81	2510 ± 120	788 ± 66	218.5
K21-18_03	1.85	17.30 ± 1.70	0.178 ± 0.017	0.97	2820 ± 110	1042 ± 92	170.6
K21-18_15	1.80	17.20 ± 2.50	0.166 ± 0.023	0.95	2830 ± 150	970 ± 120	191.8
K21-18_22	1.92	13.40 ± 2.00	0.140 ± 0.015	0.72	2610 ± 130	845 ± 87	208.9
K21-18_23	1.79	15.00 ± 1.70	0.159 ± 0.015	0.83	2720 ± 110	945 ± 82	187.8
K21-18_25	1.79	13.60 ± 1.30	0.145 ± 0.012	0.87	2640 ± 100	870 ± 68	203.4
K21-18_29	1.74	13.70 ± 1.60	0.161 ± 0.013	0.69	2630 ± 120	965 ± 74	172.5
K21-18_38	1.69	13.50 ± 1.20	0.143 ± 0.011	0.87	2632 ± 87	864 ± 66	204.6
K21-18_39	1.85	11.09 ± 0.97	0.134 ± 0.011	0.94	2450 ± 100	799 ± 64	206.6
K21-18_40	1.66	13.90 ± 1.50	0.154 ± 0.012	0.72	2630 ± 110	914 ± 64	187.7
K21-18_41	1.87	16.50 ± 2.70	0.177 ± 0.024	0.83	2820 ± 140	1060 ± 140	166.0
K21-18_42	2.39	10.30 ± 1.30	0.122 ± 0.011	0.71	2340 ± 120	736 ± 64	217.9
K21-18_44	1.58	18.10 ± 1.80	0.182 ± 0.016	0.88	2890 ± 100	1066 ± 86	171.1
K21-18_46	1.53	15.10 ± 1.90	0.179 ± 0.018	0.80	2700 ± 130	1044 ± 98	158.6
K21-18_47	1.83	16.40 ± 2.10	0.168 ± 0.019	0.88	2810 ± 130	990 ± 100	183.8
K21-18_48	1.79	13.60 ± 1.40	0.155 ± 0.015	0.94	2620 ± 100	918 ± 81	185.4
K21-18_49	1.68	18.10 ± 1.90	0.167 ± 0.017	0.97	2890 ± 110	992 ± 93	191.3
Zircons of 2nd group							
K21-18_09	0.91	0.266 ± 0.019	0.0388 ± 0.0009	0.33	237 ± 15	246 ± 6	-3.5
K21-18_10	0.64	0.291 ± 0.043	0.0398 ± 0.0012	0.20	250 ± 33	252 ± 7	-0.7
K21-18_28	0.82	0.283 ± 0.024	0.0401 ± 0.0009	0.27	248 ± 19	254 ± 6	-2.2
K21-18_33	0.77	0.282 ± 0.032	0.0396 ± 0.0012	0.27	252 ± 27	251 ± 8	0.6
K21-18_34	0.65	0.313 ± 0.036	0.0397 ± 0.0009	0.20	267 ± 27	251 ± 6	6.5
K21-18_36	0.54	0.293 ± 0.040	0.0392 ± 0.0015	0.28	248 ± 31	248 ± 9	0.1
K21-18_37	0.65	0.328 ± 0.048	0.0392 ± 0.0014	0.24	278 ± 36	248 ± 9	12.3
K21-18_50	0.60	0.292 ± 0.029	0.0383 ± 0.0009	0.24	253 ± 23	242 ± 6	4.4

Zircon standards used in the measurement							
N an	**Th/U**	**Isotope ratios**		**Rho**	**Age, Ma**		**D, %**
		^{207}Pb / ^{235}U	^{206}Pb / ^{238}U		^{207}Pb / ^{235}U	^{206}Pb / ^{238}U	
Plesovice	0.09	0.4030 ± 0.0180	0.0535 ± 0.0007	0.28	343 ± 13	336 ± 4	2.2
Plesovice	0.12	0.3820 ± 0.0160	0.0539 ± 0.0007	0.31	326 ± 11	339 ± 4	-3.7
Plesovice	0.10	0.4060 ± 0.0200	0.0537 ± 0.0008	0.28	343 ± 15	337 ± 5	1.8
Plesovice	0.10	0.4100 ± 0.0220	0.0537 ± 0.0009	0.30	346 ± 16	337 ± 5	2.7
Plesovice	0.11	0.3820 ± 0.0160	0.0537 ± 0.0008	0.33	327 ± 12	337 ± 5	-3.0
Plesovice	0.10	0.3890 ± 0.0180	0.0537 ± 0.0007	0.28	331 ± 13	337 ± 4	-1.8
Plesovice	0.10	0.3900 ± 0.0150	0.0537 ± 0.0007	0.35	333 ± 11	337 ± 4	-1.2
Plesovice	0.10	0.4080 ± 0.0180	0.0537 ± 0.0005	0.23	345 ± 13	337 ± 3	2.3
Plesovice	0.10	0.3950 ± 0.0180	0.0537 ± 0.0007	0.29	336 ± 13	337 ± 4	-0.3
Plesovice	0.10	0.4000 ± 0.0170	0.0537 ± 0.0007	0.28	340 ± 12	337 ± 4	0.9
Plesovice	0.10	0.3910 ± 0.0180	0.0537 ± 0.0007	0.27	333 ± 13	337 ± 4	-1.2
Plesovice	0.11	0.3990 ± 0.0160	0.0537 ± 0.0006	0.28	339 ± 12	337 ± 4	0.6
Plesovice	0.10	0.3850 ± 0.0160	0.0537 ± 0.0007	0.31	329 ± 11	337 ± 4	-2.4
91500	0.36	1.8400 ± 0.1100	0.1797 ± 0.0032	0.30	1040 ± 39	1065 ± 18	-2.3
91500	0.37	1.8300 ± 0.1200	0.1794 ± 0.0038	0.32	1036 ± 44	1063 ± 21	-2.5
91500	0.41	1.8200 ± 0.1100	0.1792 ± 0.0031	0.29	1030 ± 41	1062 ± 17	-3.0
91500	0.41	1.8800 ± 0.1000	0.1801 ± 0.0040	0.42	1061 ± 37	1067 ± 22	-0.6
91500	0.38	1.8700 ± 0.1000	0.1801 ± 0.0036	0.37	1060 ± 38	1067 ± 19	-0.7
91500	0.34	1.8500 ± 0.1100	0.1797 ± 0.0036	0.34	1049 ± 39	1065 ± 20	-1.5
91500	0.32	1.8100 ± 0.1000	0.1785 ± 0.0043	0.44	1040 ± 37	1058 ± 24	-1.7
91500	0.32	1.8800 ± 0.1000	0.1802 ± 0.0034	0.35	1061 ± 36	1070 ± 20	-0.8
91500	0.32	1.8500 ± 0.1100	0.1774 ± 0.0033	0.31	1042 ± 40	1052 ± 18	-1.0
91500	0.33	1.8800 ± 0.1200	0.1786 ± 0.0038	0.33	1063 ± 41	1059 ± 21	0.4
91500	0.30	1.8900 ± 0.1100	0.1764 ± 0.0047	0.46	1066 ± 40	1046 ± 25	1.9
91500	0.30	1.8300 ± 0.1400	0.1770 ± 0.0039	0.29	1039 ± 51	1050 ± 21	-1.0

Concordia diagrams of standard zircons 91500 while dating Semeitau massif zircons



2. Delbegetei massif. Quartz monzonite, sample X-1001.

N an	Th/U	Isotope ratios		Rho	Age, Ma		D, %
		^{207}Pb / ^{235}U	^{206}Pb / ^{238}U		^{207}Pb / ^{235}U	^{206}Pb / ^{238}U	
X-1001_01	0.44	0.2860 ± 0.0380	0.0398 ± 0.0016	0.30	249 ± 30	251 ± 10	-0.9
X-1001_03	0.38	0.3100 ± 0.0500	0.0396 ± 0.0016	0.25	266 ± 40	250 ± 10	6.4
X-1001_04	0.32	0.3150 ± 0.0460	0.0394 ± 0.0022	0.38	267 ± 36	249 ± 14	7.2
X-1001_05	0.34	0.3190 ± 0.0620	0.0397 ± 0.0017	0.22	266 ± 47	251 ± 11	6.0
X-1001_06	0.35	0.2890 ± 0.0400	0.0400 ± 0.0016	0.29	247 ± 32	253 ± 10	-2.4
X-1001_07	0.38	0.2680 ± 0.0440	0.0394 ± 0.0019	0.29	235 ± 36	249 ± 12	-5.6
X-1001_08	0.32	0.2430 ± 0.0400	0.0398 ± 0.0018	0.27	216 ± 34	251 ± 11	-13.9
X-1001_09	0.32	0.2870 ± 0.0510	0.0395 ± 0.0016	0.23	242 ± 39	250 ± 10	-3.1
X-1001_10	0.30	0.3040 ± 0.0330	0.0392 ± 0.0014	0.33	263 ± 26	248 ± 8	6.2
X-1001_11	0.39	0.2540 ± 0.0350	0.0397 ± 0.0018	0.33	222 ± 28	251 ± 11	-11.6
X-1001_12	0.32	0.3050 ± 0.0320	0.0396 ± 0.0014	0.34	263 ± 24	250 ± 8	5.1
X-1001_13	0.30	0.2570 ± 0.0530	0.0390 ± 0.0020	0.25	222 ± 42	246 ± 12	-9.8
X-1001_14	0.26	0.2940 ± 0.0380	0.0397 ± 0.0019	0.37	254 ± 29	251 ± 12	1.2
X-1001_15	0.28	0.2700 ± 0.0390	0.0385 ± 0.0014	0.25	237 ± 31	243 ± 9	-2.6
X-1001_16	0.30	0.2380 ± 0.0300	0.0390 ± 0.0018	0.37	211 ± 25	246 ± 11	-14.2
X-1001_17	0.43	0.2910 ± 0.0470	0.0388 ± 0.0016	0.26	248 ± 35	245 ± 10	1.2
X-1001_19	0.41	0.3110 ± 0.0400	0.0389 ± 0.0016	0.32	266 ± 30	246 ± 10	8.1
X-1001_20	0.31	0.2860 ± 0.0380	0.0407 ± 0.0014	0.26	247 ± 30	257 ± 9	-4.0
X-1001_22	0.31	0.2700 ± 0.0390	0.0390 ± 0.0015	0.27	246 ± 34	246 ± 10	-0.2
X-1001_23	0.27	0.2550 ± 0.0430	0.0412 ± 0.0023	0.33	227 ± 36	260 ± 14	-12.7
X-1001_24	0.32	0.2950 ± 0.0420	0.0384 ± 0.0017	0.31	254 ± 32	243 ± 10	4.5
X-1001_25	0.35	0.3030 ± 0.0310	0.0398 ± 0.0013	0.32	266 ± 25	252 ± 8	5.7
X-1001_26	0.51	0.3030 ± 0.0400	0.0388 ± 0.0013	0.25	261 ± 31	245 ± 8	6.5
X-1001_27	0.41	0.2680 ± 0.0310	0.0399 ± 0.0017	0.37	234 ± 25	252 ± 10	-7.1
X-1001_28	0.49	0.3000 ± 0.0370	0.0391 ± 0.0014	0.29	258 ± 29	247 ± 9	4.5
X-1001_29	0.40	0.3000 ± 0.0320	0.0399 ± 0.0015	0.35	259 ± 25	252 ± 9	2.7
X-1001_30	0.40	0.2610 ± 0.0440	0.0388 ± 0.0017	0.26	223 ± 35	245 ± 10	-9.0
X-1001_31	0.38	0.2940 ± 0.0480	0.0396 ± 0.0017	0.26	256 ± 38	250 ± 11	2.4
X-1001_34	0.33	0.3050 ± 0.0430	0.0389 ± 0.0017	0.31	259 ± 33	246 ± 10	5.3
X-1001_35	0.31	0.3110 ± 0.0410	0.0401 ± 0.0017	0.32	272 ± 32	253 ± 11	7.5
X-1001_36	0.43	0.2700 ± 0.0380	0.0396 ± 0.0018	0.32	235 ± 30	250 ± 11	-6.0
X-1001_37	0.44	0.2660 ± 0.0420	0.0379 ± 0.0018	0.30	232 ± 33	240 ± 11	-3.3
X-1001_38	0.42	0.2720 ± 0.0360	0.0404 ± 0.0015	0.28	237 ± 28	256 ± 9	-7.2
X-1001_39	0.47	0.2550 ± 0.0380	0.0392 ± 0.0017	0.29	227 ± 32	248 ± 11	-8.5
X-1001_40	0.35	0.3160 ± 0.0520	0.0389 ± 0.0017	0.27	266 ± 39	248 ± 11	7.3
X-1001_41	0.30	0.2860 ± 0.0520	0.0394 ± 0.0016	0.22	247 ± 42	249 ± 10	-0.7
X-1001_42	0.50	0.2980 ± 0.0310	0.0385 ± 0.0019	0.47	265 ± 25	243 ± 12	9.1
X-1001_43	0.32	0.2570 ± 0.0400	0.0400 ± 0.0018	0.29	227 ± 34	252 ± 11	-9.9
X-1001_44	0.32	0.2880 ± 0.0480	0.0409 ± 0.0016	0.23	243 ± 36	259 ± 10	-6.0
X-1001_45	0.52	0.2650 ± 0.0250	0.0396 ± 0.0015	0.40	234 ± 20	280 ± 9	-6.4
X-1001_47	0.37	0.2780 ± 0.0400	0.0383 ± 0.0016	0.29	238 ± 32	242 ± 10	-1.7
X-1001_48	0.45	0.2710 ± 0.0340	0.0384 ± 0.0013	0.27	237 ± 27	243 ± 8	-2.3
X-1001_50	0.36	0.2660 ± 0.0330	0.0377 ± 0.0014	0.30	231 ± 26	238 ± 9	-3.0
X-1001_51	0.27	0.3060 ± 0.0410	0.0388 ± 0.0022	0.42	267 ± 32	245 ± 13	9.0

Zircon standards used in the measurement							
N an	**Th/U**	**Isotope ratios**		**Rho**	**Age, Ma**		**D, %**
		^{207}Pb / ^{235}U	^{206}Pb / ^{238}U		^{207}Pb / ^{235}U	^{206}Pb / ^{238}U	
Plesovice	0.10	0.3940 ± 0.0200	0.0534 ± 0.0014	0.52	335 ± 15	335 ± 9	-0.1
Plesovice	0.10	0.3950 ± 0.0190	0.0539 ± 0.0013	0.50	338 ± 14	339 ± 8	-0.4
Plesovice	0.10	0.3930 ± 0.0250	0.0545 ± 0.0016	0.46	332 ± 18	342 ± 10	-2.9
Plesovice	0.10	0.3940 ± 0.0180	0.0534 ± 0.0013	0.53	335 ± 13	335 ± 8	0.0
Plesovice	0.10	0.3940 ± 0.0180	0.0537 ± 0.0013	0.53	335 ± 13	337 ± 8	-0.7
Plesovice	0.10	0.3860 ± 0.0220	0.0526 ± 0.0013	0.43	328 ± 16	331 ± 8	-0.8
Plesovice	0.10	0.4060 ± 0.0240	0.0539 ± 0.0015	0.47	343 ± 17	338 ± 9	1.4
Plesovice	0.11	0.3910 ± 0.0210	0.0542 ± 0.0012	0.41	332 ± 15	340 ± 8	-2.4
91500	0.29	1.8700 ± 0.1400	0.1813 ± 0.0064	0.47	1046 ± 50	1072 ± 35	-2.4
91500	0.27	1.8900 ± 0.1900	0.1739 ± 0.0060	0.34	1042 ± 65	1032 ± 33	1.0
91500	0.28	1.8900 ± 0.1600	0.1774 ± 0.0067	0.45	1056 ± 55	1050 ± 37	0.6
91500	0.28	1.9200 ± 0.1800	0.1746 ± 0.0065	0.40	1067 ± 63	1035 ± 36	3.1
91500	0.29	1.8600 ± 0.1400	0.1806 ± 0.0046	0.34	1037 ± 52	1072 ± 26	-3.3
91500	0.27	1.9700 ± 0.1900	0.1798 ± 0.0073	0.42	1073 ± 65	1064 ± 39	0.8
91500	0.29	1.8000 ± 0.1600	0.1782 ± 0.0075	0.47	1021 ± 57	1055 ± 41	-3.2
91500	0.27	1.9700 ± 0.1900	0.1834 ± 0.0081	0.46	1083 ± 65	1082 ± 44	0.1

Concordia diagrams of standard zircons 91500 while dating Delbegetei massif zircons