Single zircon U-Pb ages and geochemistry of granitoid gneisses from SW Poland: evidence for an Avalonian affinity of the Brunian microcontinent

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Table A1. SHRIMP U-Th-Pb data for gneisses from the eastern Fore-Sudetic Block

Sample locations: S3 = N50° 30′ 32.3′′, E16° 56′ 42.1′′; S4 = N50° 46′ 26.7′′, E17° 05′ 21.0′′; S6 = N50° 39′ 16.9′′, E17° 02′ 49.7′′;
S8 = N50° 30′ 00.4′′, E17° 09′ 25.7′′

Spot	U (ppm)	Th (ppm)	$^{232}Th/^{238}U$	206Pb* (ppm)	$^{206}Pb_c$ %	$^{207}Pb/^{206}Pb^*$	±%	$^{207}Pb/^{235}U$	±%	$^{206}Pb/^{238}U$	±%	Error corr	$^{206}Pb/^{238}U$ Age (Ma)		$^{207}Pb/^{206}Pb$ Age (Ma)		Discordant %
Sample S6 - migimatitic Nowolesie gneiss. Error in standard calibration was 0.54%																	
1.1	1613	77	0.05	130.0	0.02	0.0590	0.7	0.763	1.8	0.0938	1.6	0.91	577.9	9	569	16	-2
1.2	258	79	0.32	44.2	0.05	0.0802	1.2	2.204	2.1	0.1994	1.7	0.83	1172	18	1202	23	3
2.1	479	38	0.08	43.5	0.16	0.0620	1.8	0.901	2.4	0.1054	1.6	0.68	645.8	10	675	38	4
3.1	154	38	0.25	34.9	0.09	0.1073	1.1	3.888	2.1	0.2628	1.8	0.86	1504	24	1754	19	17
3.2	412	32	0.08	27.6	0.31	0.0574	2.0	0.615	2.6	0.0777	1.7	0.65	482.7	7.8	507	43	5
4.1	951	48	0.05	65.2	0.12	0.0581	1.1	0.639	2.5	0.0798	2.2	0.90	495	11	532	24	8
4.2	205	37	0.18	15.0	0.19	0.0592	2.9	0.692	3.3	0.0848	1.7	0.51	525	8.5	574	62	9
5.1	817	98	0.12	64.0	0.18	0.0586	1.3	0.735	2.1	0.0910	1.6	0.79	561.7	8.9	552	28	-2
6.1	78	59	0.78	15.6	0.13	0.0943	1.6	3.013	2.5	0.2318	1.9	0.77	1344	23	1514	30	13
7.1	323	93	0.30	25.9	0.11	0.0596	2.0	0.764	2.6	0.0931	1.7	0.65	573.8	9.3	587	42	2
8.1	180	90	0.52	36.1	0.18	0.0858	1.5	2.757	2.3	0.2330	1.8	0.77	1350	21	1334	28	-1
8.2	522	36	0.07	44.5	--	0.0598	1.2	0.820	2,0	0.0995	1.6	0.80	611.3	9.5	596	26	-3
9.1	183	39	0.22	40.0	--	0.0996	0.9	3.500	1.9	0.2549	1.7	0.88	1464	22	1616	17	10
9.2	1380	89	0.07	106.0	0.11	0.0591	0.9	0.730	1.8	0.0896	1.6	0.88	553.1	8.6	569	19	3
10.1	109	46	0.43	23.4	0.00	0.0941	1.5	3.247	2.3	0.2503	1.7	0.74	1440	22	1510	29	5
11.1	501	40	0.08	36.4	0.16	0.0585	1.4	0.680	2.2	0.0844	1.7	0.76	522.2	8.4	547	31	5
12.1	615	77	0.13	49.6	0.12	0.0589	1.2	0.761	2.1	0.0938	1.6	0.80	578	9.1	562	27	-3
13.1	451	55	0.13	93.4	0.01	0.0985	0.6	3.271	1.7	0.2408	1.6	0.93	1391	20	1596	11	15
13.2	506	34	0.07	38.4	0.23	0.0588	1.6	0.714	2.3	0.0881	1.6	0.71	544.3	8.3	558	35	2
14.1	1303	90	0.07	111.0	--	0.0594	1.3	0.814	2.1	0.0994	1.6	0.77	610.7	9.2	581	29	-5
15.1	1379	46	0.03	102.0	0.00	0.0598	1.2	0.709	2,0	0.0860	1.6	0.79	531.8	8.1	595	27	12
15.2	488	81	0.17	40.0	0.35	0.0608	1.9	0.797	3.2	0.0950	2.6	0.80	585	14	633	42	8
16.1	485	82	0.18	37.1	0.02	0.0591	1.1	0.725	1.9	0.0889	1.6	0.82	549.1	8.5	572	24	4
17.1	472	89	0.20	59.8	0.21	0.0807	1.1	1.637	2.3	0.1471	2.0	0.87	885	16	1214	22	37

Sample S8 - Maciejowice augen gneiss. Error in standard calibration was 0.87%

1.1	151	47	0.32	37.4	0.19	0.1045	1.2	4.130	3.1	0.2868	2.8	0.92	1625.3	40.5	1705	23	5
2.1	578	162	0.29	46.0	0.00	0.0590	0.9	0.753	2.9	0.0926	2.8	0.95	570.8	15.1	568	19	-1
2.2	142	158	1.15	20.0	0.16	0.0890	1.6	2.016	3.3	0.1643	2.8	0.87	980.6	25.8	1404	31	43
3.1	333	193	0.60	23.7	0.23	0.0581	2.1	0.663	3.5	0.0827	2.8	0.79	512.3	13.7	535	47	4
3.2	565	119	0.22	198.5	0.01	0.1528	0.4	8.620	2.8	0.4092	2.7	0.99	2211.1	51.3	2377	7	8
4.1	753	34	0.05	57.5	0.13	0.0582	0.9	0.711	2.9	0.0887	2.7	0.95	547.8	14.4	536	20	-2
5.1	1470	288	0.20	116.7	0.07	0.0593	0.6	0.755	2.8	0.0923	2.7	0.98	569.4	14.9	578	13	1
6.1	228	61	0.28	17.5	0.27	0.0590	2.8	0.723	3.9	0.0888	2.8	0.71	548.6	14.7	569	61	4
7.1	920	226	0.25	76.0	0.09	0.0593	0.9	0.785	3.1	0.0960	3.0	0.96	591.0	16.8	578	19	-2
7.2	228	73	0.33	42.9	0.21	0.0849	0.9	2.564	2.9	0.2189	2.8	0.95	1276.0	31.9	1314	18	3
8.1	349	33	0.10	27.9	0.42	0.0600	2.0	0.767	3.4	0.0927	2.8	0.80	571.7	15.1	602	44	5
9.1	1141	414	0.37	213.7	0.05	0.0917	0.6	2.753	2.8	0.2178	2.7	0.98	1270.3	31.4	1460	10	15
10.1	392	15	0.04	30.8	0.21	0.0580	1.4	0.730	3.1	0.0913	2.8	0.89	563.1	14.9	531	30	-6
11.1	1533	169	0.11	117.5	2.52	0.0595	2.3	0.714	3.5	0.0870	2.7	0.77	537.8	14.1	586	49	9
12.1	1327	188	0.15	121.9	0.46	0.0672	0.8	0.986	2.9	0.1064	2.7	0.96	651.9	16.9	843	18	29
13.1	1555	245	0.16	128.1	0.33	0.0599	2.0	0.790	3.4	0.0956	2.7	0.81	588.4	15.4	601	44	2
13.2	303	97	0.33	74.1	0.06	0.0962	0.6	3.772	2.8	0.2844	2.8	0.98	1613.4	39.4	1552	12	-4
14.1	1442	662	0.47	110.6	5.60	0.0609	7.8	0.707	8.2	0.0843	2.8	0.34	521.7	13.9	634	167	22
15.1	996	38	0.04	84.1	0.11	0.0595	0.9	0.805	2.9	0.0981	2.7	0.95	603.5	15.8	584	19	-3
16.1	656	59	0.09	50.9	0.46	0.0582	0.7	0.722	2.2	0.0900	2.1	0.95	555.5	11	536	16	-3
16.2	38	5	0.12	10.4	0.05	0.1215	0.7	5.278	2.2	0.3150	2.1	0.95	1765.1	32.6	1979	12	12
16.3	983	73	0.08	76.5	0.40	0.0588	1.1	0.731	2.3	0.0901	2.1	0.88	556.4	11	561	24	1

Sample S4 - Gościęcice augen gneiss. Error in standard calibration was 1.07%

1.1	154	21	0.14	12.7	0.06	0.0582	0.9	0.770	3.1	0.0960	3.0	0.95	591	17	538	20	-9
2.1	120	26	0.22	8.8	0.17	0.0555	2.4	0.654	3.8	0.0854	3.0	0.78	528	15	433	52	-18
3.1	141	15	0.11	9.8	0.30	0.0554	2.2	0.616	3.8	0.0806	3.1	0.81	500	15	427	50	-15
3.2	103	11	0.10	12.5	1.12	0.1008	2.2	1.925	3.7	0.1385	3.0	0.81	836	24	1640	41	96
4.1	173	86	0.51	14.2	--	0.0598	1.0	0.790	3.1	0.0957	3.0	0.95	589	17	598	21	1
4.2	98	22	0.23	6.8	0.47	0.0556	3.8	0.614	4.8	0.0802	3.0	0.62	497	14	435	85	-12
5.1	184	16	0.09	12.9	0.19	0.0555	3.1	0.623	4.3	0.0814	3.0	0.69	504	14	434	68	-14
6.1	379	30	0.08	23.6	0.11	0.0563	1.1	0.563	3.3	0.0726	3.1	0.94	452	14	462	25	2
7.1	168	55	0.34	68.9	0.01	0.2109	0.7	13.840	3.0	0.4760	2.9	0.97	2510	61	2912	11	16
7.2	252	8	0.03	17.9	0.11	0.0567	1.2	0.646	3.2	0.0827	2.9	0.92	512	15	479	27	-7
8.1	409	25	0.06	82.5	0.03	0.1117	2.8	3.620	4.7	0.2350	3.8	0.80	1361	46	1828	51	34
8.2	185	11	0.06	13.4	2.35	0.0632	8.9	0.714	9.4	0.0819	3.0	0.32	508	15	715	190	41
9.1	74	39	0.54	15.9	0.00	0.1081	0.4	3.720	3.0	0.2496	3.0	0.99	1436	39	1767	8	23
10.1	191	21	0.11	11.8	0.40	0.0554	2.3	0.548	3.8	0.0717	3.0	0.79	447	13	429	52	-4
11.1	301	151	0.52	21.1	1.52	0.0575	2.3	0.636	3.8	0.0803	3.0	0.79	498	14	509	51	2
12.1	319	176	0.57	20.5	0.70	0.0558	2.2	0.570	3.7	0.0742	3.0	0.81	461	13	443	48	-4
13.1	168	42	0.26	12.9	0.13	0.0565	1.5	0.697	3.3	0.0894	3.0	0.90	552	16	472	32	-14
14.1	238	65	0.28	17.1	0.21	0.0550	1.5	0.635	3.4	0.0837	3.1	0.90	518	15	412	33	-20
15.1	106	2	0.02	8.2	0.25	0.0558	2.5	0.696	3.9	0.0905	3.0	0.77	558	16	443	56	-21
16.1	161	34	0.22	11.2	0.31	0.0547	1.8	0.608	3.5	0.0807	3.0	0.85	500	14	400	41	-20

Sample S3 - Doboszowice metagranite. Error in standard calibration was 0.54%

1.1	462	85	0.19	35.9	0.11	0.0580	1.5	0.723	2.3	0.0903	1.7	0.74	557.4	8.9	531	34	-5
2.1	193	101	0.54	14.4	0.48	0.0572	4.9	0.683	5.2	0.0866	1.8	0.34	535.4	9.1	500	110	-7
3.1	474	92	0.20	32.9	0.14	0.0568	1.9	0.632	2.7	0.0806	1.9	0.72	499.9	9.3	484	41	-3
4.1	317	77	0.25	20.5	0.30	0.0568	2.4	0.588	3.0	0.0752	1.7	0.58	467.3	7.7	482	53	3
5.1	276	92	0.35	18.4	0.12	0.0577	2.0	0.616	2.6	0.0774	1.7	0.65	480.6	7.9	519	44	8
6.1	195	85	0.45	12.7	0.11	0.0565	2.3	0.588	2.9	0.0754	1.7	0.60	468.9	7.8	473	50	1
7.1	1061	93	0.09	69.1	0.01	0.0566	0.8	0.591	2.0	0.0758	1.9	0.91	471.1	8.5	474	19	1
8.1	382	78	0.21	25.4	0.12	0.0569	1.7	0.607	2.8	0.0773	2.2	0.79	480	10	489	37	2
9.1	382	80	0.22	24.9	0.14	0.0566	2.0	0.591	2.7	0.0758	1.7	0.66	471.2	7.9	475	44	1
10.1	245	86	0.36	13.3	0.92	0.0566	5.0	0.488	5.3	0.0625	1.8	0.33	390.9	6.7	477	110	22
11.1	238	87	0.38	16.6	0.27	0.0571	3.6	0.637	4.0	0.0809	1.7	0.44	501.4	8.4	495	79	-1
12.1	1574	75	0.05	107.0	0.05	0.0569	0.9	0.623	1.8	0.0794	1.6	0.88	492.3	7.6	488	19	-1
13.1	195	88	0.47	38.2	0.09	0.1238	2.1	3.890	4.6	0.2277	4.1	0.89	1322	49	2012	37	52
13.2	585	97	0.17	35.2	0.26	0.0560	2.1	0.539	3.2	0.0697	2.5	0.77	435	10	454	46	4
14.1	605	98	0.17	40.3	0.15	0.0573	1.8	0.612	2.4	0.0774	1.7	0.69	480.8	7.7	505	39	5
15.1	304	95	0.32	21.3	--	0.0572	1.7	0.644	2.5	0.0816	1.8	0.72	505.9	8.7	500	38	-1
15.2	3598	62	0.02	139.0	1.35	0.0518	3.7	0.316	4.1	0.0443	1.6	0.40	279.1	4.4	275	85	-2
16.1	1096	93	0.09	73.7	0.01	0.0570	1.0	0.616	1.9	0.0783	1.6	0.86	485.8	7.6	493	21	1
17.1	345	95	0.28	24.1	0.18	0.0571	1.9	0.638	2.5	0.0811	1.7	0.66	502.8	8.0	494	41	-2
18.1	329	95	0.30	23.7	0.12	0.0573	1.7	0.661	2.4	0.0836	1.6	0.69	517.9	8.2	502	38	-3

Errors are 1-sigma; Pb_c and Pb^* indicate the common and radiogenic portions, respectively. Common Pb corrected using measured ^{204}Pb. GPS coordinates are given in WGS 84.

Table A2. Isotopic data from single zircon evaporation of granitoid gneisses from the Orlica-Śnieżnik Massif

Sample locations[1]: **PL 26** = N50° 14′ 59.4′′, E16° 51′ 56.5′′; **PL 27** = N50° 13′ 55.0′′, E16° 24′ 14.2′′
PL 27a = N50° 13′ 19.2′′, E16° 46′ 36.3′′

Sample number	Zircon colour and morphology	Grain no.	Mass scans[2]	Evaporation temp. in °C	Mean $^{207}Pb/^{206}Pb$ ratio[3] and 2σ error	$^{207}Pb/^{206}Pb$ age and 2σ error
PL 26	clear to light grey,	1	132	1597	0.057204 ± 22	499.4 ± 0.8
	long-prismatic	2	77	1600	0.057234 ± 30	500.6 ± 1.2
	idiomorphic	3	121	1597	0.057242 ± 20	500.9 ± 0.8
mean of 3 analyses		1-3	330		0.057225 ± 13	***500.2 ± 1.0**
PL 27	clear to yellow,	1	90	1598	0.057289 ± 36	502.7 ± 1.4
	long-prismatic	2	88	1596	0.057315 ± 28	503.6 ± 1.1
	idiomorphic	3	158	1592	0.057321 ± 15	503.9 ± 0.6
mean of 3 analyses		1-3	336		0.057311 ± 14	***503.5 ± 1.0**
PL 27a	clear to light grey,	1	97	1596	0.057231 ± 37	500.4 ± 1.4
	long-prismatic	2	115	1598	0.057244 ± 24	500.9 ± 0.9
	idiomorphic	3	131	1595	0.057254 ± 22	501.3 ± 0.8
		4	77	1599	0.057260 ± 15	501.6 ± 0.6
		5	110	1599	0.057247 ± 15	501.1 ± 0.6
mean of 5 analyses		1-5	530		0.057246 ± 13	***501.0 ± 1.0**

[1]GPS coordinates are given in WGS 84. [2]Number of $^{207}Pb/^{206}Pb$ ratios evaluated for age assessment. [3]Observed mean ratio corrected for non-radiogenic Pb where necessary. Errors based on uncertainties in counting statistics. *