

APPENDIX 1

Chemical composition of carbonates from microprobe analyses (calculated to 100%)

Borehole	Age	Depth [m]	Type of rocks	Mg wt. %	Ca wt. %	Mn wt. %	Fe wt. %	MgCO ₃ mol. %	CaCO ₃ mol. %	MnCO ₃ mol. %	FeCO ₃ mol. %	Number of point of analysis and type of carbonate
Northeastern margin of the Holy Cross Mts.												
Gutwin	Bj2	201.6	sst	1.68	0.49	0.49	40.92	5.9	8.6	1.0	84.5	1 Sdp sp rb
				6.40	4.82	0.53	30.99	22.5	12.1	1.1	64.3	2 Pt sp rb
				7.07	22.55	0.27	8.35	25.0	56.9	0.6	17.5	3 Ak sp
Wąglany k/Opoczna	Bt3	267.7	scq	6.43	20.99	0.32	9.29	23.7	55.3	0.8	20.2	1 Ak sp
				3.97	3.39	0.29	31.48	15.8	9.6	0.7	73.9	2 Sdp sp
				6.45	22.58	0.36	7.28	23.8	59.4	0.9	15.9	3 Ak sp
	Bt1-2	395.2	cls	3.48	3.59	0.00	33.22	13.5	10.0	0.0	76.5	1 Sdp sp ooid
				3.48	2.22	0.00	36.79	13.0	5.9	0.0	81.3	2 Sdp sp ooid
				2.59	2.37	0.56	38.84	9.4	6.1	1.2	83.3	3 Sdp msp
				2.02	3.06	0.73	37.17	7.6	8.2	1.6	82.6	4 Sdp msp
	Aa1	597.2	cls	8.68	1.23	0.13	29.51	32.0	3.3	0.3	64.4	1 Pt sp rb ooid
				5.21	2.75	0.23	31.95	19.9	7.5	0.5	72.1	3 Sdp sp
				8.51	1.40	0.29	28.41	32.1	3.8	0.7	63.4	4 Pt sp
				3.31	1.51	0.21	35.74	12.9	4.2	0.5	82.4	5 Sdp mic
	Aa1	600.2	sst	1.04	0.98	1.17	41.16	3.9	2.6	2.6	90.9	6 Sdp mic
				6.10	0.94	0.35	27.72	26.3	2.9	0.9	69.9	1 Pt sp rb
				5.17	1.30	0.95	22.95	25.5	4.6	2.8	67.1	1a Pt sp rb
				5.14	0.64	0.56	30.55	21.4	1.9	1.4	75.3	2 Sdp ms
	Aa1	643.8	sst	5.94	1.15	1.29	27.80	24.0	3.5	3.2	69.3	3 Pt msp
				3.43	1.34	1.83	35.02	13.1	3.6	4.2	79.1	1 Sdp sp rb
				0.98	0.14	0.85	40.02	3.9	0.4	2.0	93.7	3 Sdp sp rb
				3.74	2.14	1.41	33.36	14.5	5.9	3.3	76.3	2 Sdp sp rb
					2.25	0.66	1.06	35.68	9.2	1.9	2.6	86.3
				1.85	0.67	1.54	36.92	7.6	2.8	3.4	86.2	5 Sdp Sph
Częstochowa region												
Biskupice 25BN	Bt1	134.7	sst	1.53	2.49	0.34	42.98	5.3	6.1	0.7	87.9	1 Sdp sp
				6.22	5.66	0.28	31.03	21.6	14.1	0.6	63.7	1a Pt sp rb
				1.76	4.35	0.23	38.98	6.3	11.1	0.5	82.1	2 Sdp mic
				0.29	37.77	0.37	2.03	1.0	94.0	0.8	4.2	3 Fe-Ka shell
				0.62	37.51	0.12	1.60	2.2	94.2	0.3	3.3	3a Fe-Ka shell
Łutowiec 135Ż	Bj1	178.9	cls	2.69	5.09	1.12	37.51	9.2	12.4	2.3	76.1	1 Sdp sp rb
				2.13	3.51	1.00	39.82	7.4	8.7	2.1	81.8	2 Sdp msp
Parkoszowice 58BN	Bj2	101.0	cls	0.61	36.34	0.38	2.66	2.1	91.6	0.8	5.5	1 Fe-Ka ooid
				1.04	38.48	0.23	0.97	3.5	94.0	0.5	2.0	2 Fe/Mn-Ka ooid
				5.56	23.34	0.88	9.39	19.5	58.3	1.8	19.4	2a Ak ooid
				5.75	23.61	0.52	9.18	20.3	59.5	1.1	19.1	3 Ak ooid
				2.03	3.65	0.00	40.54	7.1	9.1	0.0	83.8	4 Sdp msp ooid
				2.26	4.85	0.14	39.34	7.8	11.9	0.3	80.0	5 Sdp mic cement
	Bj2	102.3	cls	1.88	2.67	0.53	41.80	6.5	6.6	1.1	85.8	6 Sdp mic cement
				2.58	4.72	0.00	38.25	9.0	11.8	0.0	79.2	1 Sdp sp
	Bj2	104.1	cls	2.26	3.39	0.34	39.57	8.0	8.6	0.7	82.7	2 Sdp sp
				2.32	4.38	0.04	38.69	8.1	11.1	0.1	80.7	1 Sdp sp ooid
2.64				5.23	0.00	36.93	9.3	13.3	0.0	77.4	1a Sdp sp ooid	
Zrębnice 33BN	Bj2	372.7	sst	2.40	4.48	0.70	36.99	8.6	11.5	1.5	78.4	2 Sdp mic cement
				2.52	5.31	0.24	37.20	8.8	13.4	0.5	77.3	1 Sdp sp cement
				3.06	5.31	0.39	36.82	10.6	13.1	0.8	75.5	1a Sdp sp cement
				2.47	5.11	0.00	37.61	8.7	12.9	0.0	78.4	2 Sdp Sph
				4.27	5.72	0.47	34.15	14.8	14.2	1.0	70.0	2a Sdp Sph
				2.77	5.06	0.00	36.97	9.8	12.8	0.0	77.4	3 Sdp sp
				4.75	6.49	0.27	32.36	16.5	16.2	0.6	66.7	3a Sdp sp rb
				0.14	1.19	1.66	45.50	0.5	3.0	3.4	93.1	3b Sd msp

For explanations see Table 1