

formation	member or informal unit	centrofacies	sample	analyst	locality	NCE(neov.)	CF	Cl+NCI	Eq(including chert)	Ff-neov.	Lf-neov.	Um+CFmet	Lw-neov.	Ls+CEsC
Lorano	...	L	63	Cibin	Lorano	95.6	0.0	4.4	50.8	46.2	3.1	—	—	—
Lorano	...	L	1578	Cibin	Lorano	98.5	0.0	1.5	50.4	47.3	2.3	—	—	—
Lorano	...	L	1579	Cibin	Lorano	96.2	0.0	3.8	50.0	48.4	1.6	—	—	—
Lorano	...	L	1582A	Cibin	Lorano	99.2	0.0	0.8	55.8	39.8	4.4	—	—	—
Lorano	...	L	1582B	Cibin	Lorano	96.9	0.0	3.1	53.1	42.9	4.1	—	—	—
Lorano	...	L	10	Cibin	Lorano	97.4	0.0	2.6	45.9	46.8	7.2	—	—	—
Lorano	...	L	11	Cibin	Lorano	100.0	0.0	0.0	43.7	51.9	4.4	—	—	—
Lorano	...	L	52 II	Cibin	Savena valley	99.6	0.0	0.4	60.0	39.2	0.8	—	—	—
Lorano	...	L	55	Cibin	Savena valley	97.6	0.0	2.4	62.1	35.0	2.9	—	—	—
Lorano	...	L	57	Cibin	Savena valley	99.3	0.4	0.4	53.6	45.2	1.1	—	—	—
Lorano	...	L	1569	Cibin	Savena valley	97.3	2.7	0.0	49.0	43.4	7.6	—	—	—
Lorano	...	L	1571	Cibin	Savena valley	98.1	1.1	0.8	52.1	44.0	3.9	—	—	—
Lorano	...	L	1574	Cibin	Savena valley	98.8	0.4	0.8	55.1	41.7	3.2	—	—	—
Lorano	...	L	1575	Cibin	Savena valley	99.2	0.0	0.8	51.7	44.8	3.5	—	—	—
Lorano	...	L	60	Cibin	Savena valley	99.2	0.4	0.4	60.9	36.4	2.7	—	—	—
Lorano	...	L	61	Cibin	Savena valley	99.2	0.0	0.8	60.8	37.1	2.1	—	—	—
Lorano	...	L	37	Cibin	Setta valley	98.9	0.0	1.1	57.6	40.8	1.5	—	—	—
Lorano	...	L	38	Cibin	Setta valley	98.1	0.8	1.1	56.6	38.3	5.1	—	—	—
Lorano	...	L	1563	Cibin	Setta valley	97.7	1.1	1.1	58.0	38.0	3.9	—	—	—
Lorano	...	L	1564	Cibin	Setta valley	98.0	0.8	1.2	50.2	44.9	4.9	—	—	—
Lorano	...	L	1565	Cibin	Setta valley	99.6	0.0	0.4	57.6	39.3	3.1	—	—	—
Lorano	...	L	1566	Cibin	Setta valley	98.1	1.2	0.8	52.2	43.0	4.8	—	—	—
Lorano	...	L	40	Cibin	Setta valley	98.6	0.7	0.7	53.3	40.7	5.9	—	—	—
Lorano	...	L	47	Cibin	Setta valley	98.9	1.1	0.0	55.0	41.2	3.8	—	—	—
Lorano	...	L	52 I	Cibin	Setta valley	98.6	1.4	0.0	53.4	44.1	2.5	—	—	—
Ronzano	Pizzo d'Oca Mb	R1	162	Cibin	Zermagnone (Parma valley)	98.9	1.1	0.0	28.9	23.9	47.2	96.9	0.6	2.5
Ronzano	Pizzo d'Oca Mb	R1	173	Cibin	Zermagnone (Parma valley)	99.7	0.3	0.0	30.3	32.0	37.6	—	11.9	1.5
Ronzano	Pizzo d'Oca Mb	R1	164	Cibin	Zermagnone (Parma valley)	95.7	0.0	4.3	35.3	25.2	39.5	81.5	17.7	0.8
Ronzano	Pizzo d'Oca Mb	R1	141	Cibin	Zappello-Foldation (M. Bongiago)	97.6	0.3	2.2	36.5	25.7	33.7	86.6	12.6	3.7
Ronzano	Pizzo d'Oca Mb	R1	142	Cibin	Zappello-Foldation (M. Bongiago)	96.4	0.3	3.3	36.3	32.0	31.7	91.7	4.6	0.8
Ronzano	Pizzo d'Oca Mb	R1	136	Cibin	Pizzo di oca (M. Bongiago)	99.7	0.0	0.3	32.0	32.2	35.8	81.0	18.2	0.8
Ronzano	Pizzo d'Oca Mb	R1	135	Cibin	Pizzo di oca (M. Bongiago)	97.3	0.3	2.4	41.4	25.8	32.8	89.4	6.2	4.4
Ronzano	Pizzo d'Oca Mb	R1	134	Cibin	Pizzo di oca (M. Bongiago)	98.9	0.3	0.8	30.9	34.5	34.5	93.5	4.0	2.4
Ronzano	Pizzo d'Oca Mb	R1	204	Cibin	Chiarone	99.5	0.5	0.0	31.1	22.6	46.3	96.6	2.3	1.1
Ronzano	Pizzo d'Oca Mb	R1	203	Cibin	Chiarone	100.0	0.0	0.0	38.5	27.6	33.9	100.0	0.0	0.0
Ronzano	Pizzo d'Oca Mb	R1	202	Cibin	Chiarone	100.0	0.0	0.0	33.5	29.4	37.1	97.3	2.7	0.0
Ronzano	Pizzo d'Oca Mb	R1	200	Cibin	Chiarone	100.0	0.0	0.0	31.8	24.5	43.8	96.8	1.2	0.0
Ronzano	Pizzo d'Oca Mb	R1	95	Cibin	Rio Molinetto (Pessola valley)	98.6	1.4	0.0	30.9	19.2	49.8	94.6	2.4	3.0
Ronzano	Pizzo d'Oca Mb	R1	96	Cibin	Rio Molinetto (Pessola valley)	99.5	0.0	0.5	28.6	38.9	32.5	88.6	8.9	2.4
Ronzano	Val Pessola Mb	R2	229	Cibin	Velucciona (sx V. Secchia)	97.9	1.7	0.3	29.3	20.7	50.0	44.3	51.4	4.3
Ronzano	Val Pessola Mb	R2	231	Cibin	Velucciona (sx V. Secchia)	93.7	5.2	1.1	25.2	20.0	54.8	51.8	37.2	10.9
Ronzano	Val Pessola Mb	R2	233	Cibin	Velucciona (sx V. Secchia)	94.0	5.6	0.4	24.4	18.0	57.6	41.0	45.8	13.2
Ronzano	Val Pessola Mb	R2	236	Cibin	Velucciona (sx V. Secchia)	88.7	11.3	0.0	21.7	17.9	60.4	33.8	37.3	28.9
Ronzano	Val Pessola Mb	R2	238	Cibin	Velucciona (sx V. Secchia)	90.9	8.7	0.4	20.1	21.7	58.2	33.1	46.9	20.0
Ronzano	Val Pessola Mb	R2	175	Cibin	Zermagnone (Parma valley)	98.8	1.2	0.0	18.1	24.2	57.7	53.9	44.0	2.1
Ronzano	Val Pessola Mb	R2	166	Cibin	Zermagnone (Parma valley)	96.9	3.1	0.0	14.1	18.2	67.7	57.0	36.5	6.4
Ronzano	Val Pessola Mb	R2	177	Cibin	Zermagnone (Parma valley)	95.8	2.9	1.3	26.8	26.8	46.5	66.1	25.5	8.5
Ronzano	Val Pessola Mb	R2	120	Cibin	M. Bongiago	98.1	1.6	0.3	28.3	19.1	52.6	48.4	44.6	7.1
Ronzano	Val Pessola Mb	R2	121	Cibin	M. Bongiago	91.9	4.7	3.4	26.3	19.8	54.0	61.2	25.7	13.1

Cibin

formation	member of informal unit	settlement	sample	analyst	locality	NCE(neov)	CE	Ct+NCt	Q(including chert)	f(neov)	(f-neov)+CE	Um+CEmet	Uv(neov)	Uv(Cfbed)
Ranzano	Val Pessola Mb	R2	123	Cibin	M. Bargazzo	97.7	1.4	0.8	30.7	22.0	47.3	55.3	37.7	6.9
Ranzano	Val Pessola Mb	R2	124	Cibin	M. Bargazzo	98.2	1.4	0.5	32.6	28.4	39.0	66.1	28.3	6.6
Ranzano	Val Pessola Mb	R2	125	Cibin	M. Bargazzo	96.8	1.9	1.4	33.4	22.9	43.7	56.9	35.3	7.8
Ranzano	Val Pessola Mb	R2	105	Cibin	M. Bargazzo	97.4	1.9	0.8	30.5	22.9	46.6	50.3	43.9	5.8
Ranzano	Val Pessola Mb	R2	126	Cibin	M. Bargazzo	97.8	0.8	1.4	32.6	22.5	44.9	51.3	43.8	5.0
Ranzano	Val Pessola Mb	R2	127	Cibin	M. Bargazzo	91.4	7.0	1.6	25.8	21.4	52.8	29.1	47.8	23.1
Ranzano	Val Pessola Mb	R2	143	Cibin	Zappello-Faladon (M. Bargazzo)	98.7	0.8	0.5	28.6	19.6	51.7	53.3	40.0	6.7
Ranzano	Val Pessola Mb	R2	133	Cibin	Pizzo di Oca (M. Bargazzo)	95.5	3.1	1.4	15.7	13.9	70.3	39.7	47.7	12.7
Ranzano	Val Pessola Mb	R2	129	Cibin	Pizzo di Oca (M. Bargazzo)	91.1	8.3	0.5	10.4	7.7	81.8	17.8	53.1	29.1
Ranzano	Val Pessola Mb	R2	196	Cibin	Charone	95.6	2.5	2.0	13.3	10.8	75.9	38.5	58.1	3.4
Ranzano	Val Pessola Mb	R2	207	Cibin	Charone	97.0	2.0	1.0	16.2	12.6	71.2	57.4	39.0	3.7
Ranzano	Val Pessola Mb	R2	97	Cibin	Rio Malinetto (Pessola valley)	98.9	1.1	0.0	21.1	18.6	60.3	61.6	33.6	4.7
Ranzano	Val Pessola Mb	R2	0-41	Cibin	Pessola valley	88.0	10.1	1.7	14.3	14.3	71.3	38.8	41.6	19.6
Ranzano	Val Pessola Mb	R2	0-42	Cibin	Pessola valley	89.2	8.4	2.4	15.8	21.8	62.4	40.3	42.2	17.5
Ranzano	Val Pessola Mb	R2	0-43	Cibin	Pessola valley	90.8	7.8	1.4	14.4	21.9	63.8	33.3	52.5	14.2
Ranzano	Val Pessola Mb	R2	0-52	Cibin	Pessola valley	90.6	7.8	1.6	18.2	19.4	62.5	33.8	47.4	18.8
Ranzano	Val Pessola Mb	R2	0-53	Cibin	Pessola valley	93.1	5.5	1.3	21.0	19.0	60.1	37.4	47.6	15.0
Ranzano	Val Pessola Mb	R2	0-54	Cibin	Pessola valley	93.9	4.6	1.5	24.9	27.0	48.1	35.3	51.1	13.7
Ranzano	Val Pessola Mb	R2	0-55	Cibin	Pessola valley	92.3	6.3	1.5	22.3	26.0	51.7	31.1	51.7	17.2
Ranzano	Val Pessola Mb	R2	0-56	Cibin	Pessola valley	90.9	8.0	1.1	20.3	21.5	58.2	31.5	51.9	16.6
Ranzano	Val Pessola Mb	R2	148	Cibin	Pessola valley	94.1	5.1	0.8	16.5	21.4	62.1	49.1	40.8	10.1
Ranzano	Val Pessola Mb	R2	150	Cibin	Pessola valley	93.5	4.7	1.8	22.0	19.7	58.3	41.5	44.3	14.2
Ranzano	Val Pessola Mb	R2	151	Cibin	Pessola valley	92.4	6.5	1.1	16.1	18.2	65.7	47.3	33.0	19.6
Ranzano	Varano Melegari Mb	R3a	168	Cibin	Zermagnone (Parma valley)	61.6	33.0	5.5	10.6	4.7	84.7	18.6	5.0	76.4
Ranzano	Varano Melegari Mb	R3a	179	Cibin	Zermagnone (Parma valley)	58.9	37.3	3.8	4.5	4.1	91.5	12.9	6.2	80.9
Ranzano	Varano Melegari Mb	R3a	155	Cibin	Ceno valley	81.3	17.5	1.2	15.7	11.7	72.5	41.3	26.8	31.9
Ranzano	Varano Melegari Mb	R3a	158	Cibin	Ceno valley	81.3	18.3	0.5	16.4	12.0	71.6	33.5	30.2	36.3
Ranzano	Varano Melegari Mb	R3a	157	Cibin	Ceno valley	81.4	17.4	1.1	13.5	8.7	77.7	40.9	24.3	34.8
Ranzano	Varano Melegari Mb	R3a	257	Cibin	Varano de' Melegari	84.2	15.4	0.3	10.8	5.6	83.6	27.8	34.9	37.3
Ranzano	Varano Melegari Mb	R3a	258	Cibin	Varano de' Melegari	81.6	18.4	0.0	10.8	12.8	76.4	28.8	27.2	44.0
Ranzano	Varano Melegari Mb	R3a	259	Cibin	Varano de' Melegari	72.3	27.4	0.3	12.0	6.4	81.6	25.0	15.2	59.8
Ranzano	Varano Melegari Mb	R3a	209	Cibin	M. Roccone	74.0	24.2	1.8	23.6	17.2	59.2	20.9	13.5	65.5
Ranzano	Varano Melegari Mb	R3a	210	Cibin	M. Roccone	66.2	33.2	0.5	12.8	11.2	76.0	9.5	3.7	86.8
Ranzano	Varano Melegari Mb	R3a	214	Cibin	M. Roccone	80.3	18.8	0.9	15.6	10.7	73.7	36.2	22.1	41.7
Ranzano	Albergana Mb	R3b	245	Cibin	Albergana (Setta valley)	95.1	2.7	2.3	51.0	33.7	15.2	16.0	38.0	46.0
Ranzano	Albergana Mb	R3b	246	Cibin	Albergana (Setta valley)	96.7	2.5	0.7	46.1	40.7	13.2	29.1	40.5	30.4
Ranzano	Albergana Mb	R3b	248	Cibin	Albergana (Setta valley)	98.1	1.1	0.8	47.3	37.9	14.8	24.4	38.5	37.2
Ranzano	Logimone	A1?	181	Cibin	Logimone	82.8	16.9	0.3	10.7	0.8	88.4	71.7	4.2	24.1
Ranzano	Logimone	A1?	169	Cibin	Logimone	84.1	15.9	0.0	5.7	3.0	90.7	71.8	7.7	20.5
Ranzano	Logimone	A1?	G237	Cibin	Logimone	80.7	19.0	0.3	13.5	7.5	79.0	63.1	6.7	30.2
Ranzano	Logimone	A1?	367	Cibin	Enza valley	59.6	40.4	0.0	9.6	1.2	89.2	62.9	5.0	32.1
Ranzano	Logimone	A1?	368	Cibin	Enza valley	72.7	26.9	0.4	14.8	10.4	74.8	59.2	1.7	39.1
Antognola	pre-P La Torre	A1	347	Cibin	Enza valley	70.6	29.4	0.0	11.2	1.5	87.3	61.8	6.5	31.8
Antognola	P La Torre	A1	369	Cibin	Enza valley	21.2	0.0	14.4	6.4	6.4	79.2	80.1	3.1	16.8
Antognola	P La Torre	A1	370	Cibin	Enza valley	14.6	0.4	29.2	16.0	54.8	67.5	0.8	31.7	30.9
Antognola	P La Torre	A1	349	Cibin	Enza valley	17.1	0.4	24.8	11.6	63.6	61.1	8.1	7.4	20.8
Antognola	P La Torre	A1	346	Cibin	Enza valley	92.4	6.9	0.7	29.6	49.6	71.9	36.5	37.2	20.7

terrane	member or informal unit	sample	analyst	locality	NCE(neo)	CE	CH+NCI	Q(including chert)	F(neo)	U(neo)	Lm+CEmet	Lv(neo)	Ls+CEsed	
Antigoria	post P. La Torre	A1	Cibin	Enza valley	76.5	22.8	0.7	16.8	10.0	73.2	49.7	13.3	37.0	
Antigoria	post P. La Torre	A1	Cibin	Enza valley	81.2	18.8	0.0	22.2	11.7	66.2	64.8	0.6	34.5	
Antigoria	post P. La Torre	A1	Cibin	Enza valley	81.9	18.1	0.0	23.2	11.2	65.6	57.1	5.8	37.2	
Antigoria	post P. La Torre	A1	Cibin	Enza valley	92.2	7.1	0.8	21.6	19.6	58.8	60.1	12.6	27.3	
Antigoria	post P. La Torre	A1	Cibin	Enza valley	76.0	24.0	0.0	15.2	6.4	78.4	61.1	2.7	36.2	
Antigoria latica		A4	Cibin	lattica (sx Secchia valley)	99.3	0.0	0.7	34.8	38.9	26.3	54.0	26.0	20.0	
Antigoria latica		A4	Cibin	lattica (sx Secchia valley)	100.0	0.0	0.0	31.6	46.0	22.4	56.4	20.9	22.7	
Antigoria latica		A4	Cibin	Pontone (sx Secchia valley)	97.3	1.2	1.6	38.0	38.4	23.6	48.7	35.9	15.4	
Antigoria latica		A4	Cibin	Pontone (sx Secchia valley)	98.0	2.0	0.0	32.8	44.0	23.2	44.0	34.0	22.0	
Antigoria latica		A4	Cibin	Pontone (sx Secchia valley)	99.2	0.8	0.0	36.4	38.8	24.8	70.0	21.0	9.0	
Antigoria M. Salso	A2	261	Cibin	Pellegrino Parmense	96.9	2.1	1.0	25.6	15.2	59.2	93.9	2.7	3.4	
Antigoria M. Salso	A2	GZ54	Cibin	Pellegrino Parmense	97.8	2.2	0.0	22.8	12.8	64.4	91.9	3.7	4.3	
Antigoria Carpineti	A2	364	Cibin	Enza valley	93.4	5.9	0.7	43.2	10.8	46.0	76.4	7.5	16.0	
Antigoria Carpineti	A2	340	Cibin	Villapiana	87.8	9.9	2.3	30.0	12.4	57.6	73.6	6.9	19.4	
Antigoria Carpineti	A2	339	Cibin	Villapiana	91.5	8.5	0.0	37.2	16.0	46.8	64.1	12.8	23.1	
Antigoria Carpineti	A2	334	Cibin	Castello Carpineti	91.6	8.0	0.4	32.3	11.6	56.2	75.2	7.8	17.0	
Antigoria Carpineti	A2	335	Cibin	Castello Carpineti	92.0	6.9	1.1	29.2	7.9	62.8	75.5	10.1	14.5	
Antigoria Carpineti	A2	337	Cibin	Castello Carpineti	93.6	5.7	0.7	38.0	8.0	54.0	85.2	5.2	9.6	
Antigoria Carpineti	A2	329	Cibin	Castello Carpineti	94.5	4.8	0.7	36.8	7.2	58.0	85.7	5.0	9.3	
Antigoria Carpineti	A2	330	Cibin	Castello Carpineti	95.4	3.5	1.1	40.8	4.6	54.6	85.9	7.0	12.1	
Antigoria Carpineti	A2	331	Cibin	Castello Carpineti	93.8	5.1	1.2	28.0	6.0	68.0	75.2	12.7	12.1	
Antigoria Carpineti	A2	332	Cibin	Castello Carpineti	94.7	3.4	1.9	32.4	10.0	57.6	81.9	7.6	10.4	
Antigoria Ancocella	A3	62	Cibin	Savena valley	100.0	0.0	0.0	49.6	40.2	10.2	—	—	—	
Antigoria Ancocella	A3	18	Cibin	Savena valley	99.3	0.7	0.0	61.6	32.2	6.2	—	—	—	
Antigoria Ancocella	A3	50	Cibin	Furcolo (Savena valley)	100.0	0.0	0.0	54.2	38.5	7.3	—	—	—	
Antigoria Ancocella	A3	49	Cibin	Furculo (Savena valley)	99.2	0.0	0.8	50.0	41.2	6.8	—	—	—	
Antigoria Ancocella	A3	42	Cibin	Lama di Setta	100.0	0.0	0.0	53.7	40.7	5.6	—	—	—	
Antigoria Ancocella	A3	41	Cibin	Lama di Setta	100.0	0.0	0.0	46.8	46.6	7.6	—	—	—	
Q(not including chert)														
Pantano	Sequence S1	B1	68	Spadafora Reno valley	48.7	2.5	28.8	55.8	22.7	21.5	59.4	13.9	26.7	
Pantano	Sequence S1	B1	71	Spadafora Reno valley	56.3	2.6	41.1	56.3	27.0	16.7	57.0	17.0	26.0	
Pantano	Sequence S1	B1	73	Spadafora Reno valley	48.0	0.9	31.1	45.7	31.1	23.3	74.8	9.7	—	
Pantano	Sequence S1	B1	74	Spadafora Reno valley	81.9	2.2	15.9	51.5	27.1	21.4	65.0	15.0	19.0	
Pantano	Sequence S1	B1	75	Spadafora Reno valley	66.9	1.9	31.2	49.2	26.1	24.6	62.9	24.8	12.4	
Pantano	Sequence S1	B1	65	Spadafora Reno valley	64.4	2.7	32.9	57.5	25.8	16.7	59.2	11.7	29.1	
Pantano	Sequence S1	B1	108	Spadafora Castel d'Alano	67.1	1.3	31.6	61.4	24.8	13.9	76.0	18.0	6.0	
Pantano	Sequence S1	B1	109	Spadafora Castel d'Alano	69.5	0.9	29.6	56.9	22.8	20.3	75.0	21.0	4.0	
Q(not including chert)														
Pantano	Sequence S2	B1	1	Spadafora Reno valley	60.6	2.6	36.8	50.8	33.5	15.7	64.0	15.0	21.0	
Pantano	Sequence S2	B1	3	Spadafora Reno valley	39.8	4.2	56.0	53.6	28.2	18.2	58.0	26.0	16.0	
Pantano	Sequence S2	B1	24	Spadafora Zena valley	37.5	0.3	62.2	61.5	22.1	16.4	82.0	16.0	2.0	
Pantano	Sequence S2	B1	34	Spadafora Ialce valley	59.0	1.3	39.7	46.6	33.5	19.9	70.3	18.8	10.9	
Pantano	Sequence S2	B1	35	Spadafora Ialce valley	78.2	1.2	20.6	51.7	32.0	16.2	59.0	28.0	13.0	
Pantano	Sequence S2	B1	36	Spadafora Ialce valley	61.9	2.8	35.3	56.9	24.5	24.5	58.4	22.8	18.8	

formation	member or informal unit	petrofacies	sample	ondolyst	locality	NICE(-neov)	CE	C1+NCI	$\delta^{13}\text{C}$ (excluding chert)	$\delta^{13}\text{C}(\text{neov})$	$\text{U}(\text{neov})+\text{CE}$	$\text{Um}+\text{CEmet}$	$\text{Ly}(\text{neov})$	$\text{Ls}+\text{CEsed}$
Pantano	Sequence S2	B1	38a	Spadafora	Idice valley	55.1	1.4	43.5	52.3	29.1	18.6	71.0	17.0	12.0
Pantano	Sequence S2	B1	39	Spadafora	Idice valley	75.7	0.3	24.1	47.8	36.3	13.8	81.0	15.0	4.0
Pantano	Sequence S2	B1	40	Spadafora	Idice valley	73.8	0.9	25.3	49.0	33.2	17.8	69.5	15.7	14.7
Pantano	Sequence S2	B1	105	Spadafora	Castel d'Alno	80.1	3.4	16.5	58.0	24.3	17.7	66.0	19.0	15.0
Pantano	Sequence S2	B1	81	Spadafora	Reno valley	65.7	1.2	42.1	57.3	25.3	17.4	63.0	24.0	13.0
Pantano	Pietra di Bismontova Mb	B1	25 vc	Spadafora	Enza valley	24.0	0.9	75.1	30.8	30.8	38.5	54.5	38.4	9.1
Pantano	Pietra di Bismontova Mb	B1	26 vc	Spadafora	Enza valley	14.9	0.0	85.1	43.6	32.7	23.6	68.0	16.0	16.0
Pantano	Pietra di Bismontova Mb	B1	30 vc	Spadafora	Enza valley	51.6	2.3	46.1	54.4	15.4	30.2	67.3	14.4	18.3
Pantano	Pietra di Bismontova Mb	B1	31 vc	Spadafora	Enza valley	62.4	1.8	35.8	47.3	18.3	34.4	63.0	19.0	18.0
Pantano	Pietra di Bismontova Mb	B1	32 vc	Spadafora	Enza valley	62.6	0.5	36.9	52.5	19.1	28.4	79.0	14.0	7.0
Pantano	M. Castelletto Mb	B1	27 vc	Spadafora	Enza valley	19.3	0.0	80.7	49.2	30.3	20.0	44.7	35.0	20.4
Pantano	M. Castelletto Mb	B1	28 vc	Spadafora	Enza valley	45.5	2.0	52.5	46.6	27.3	26.1	49.0	16.0	35.0
Pantano	Pantano Mb	B1	8 vc	Spadafora	Enza valley	91.7	4.8	3.5	54.5	28.3	17.2	50.0	14.0	36.0
Pantano	Pantano Mb	B1	13 vc	Spadafora	Enza valley	29.4	2.6	67.9	40.2	28.0	31.7	61.0	25.0	14.0
Pantano	Pantano Mb	B1	14 vc	Spadafora	Enza valley	36.1	0.0	63.9	58.3	32.1	9.5	60.0	12.0	28.0
Pantano	Pantano Mb	B1	33 vc	Spadafora	Enza valley	35.6	1.9	62.5	37.2	12.4	50.4	51.0	20.0	29.0
Pantano	Pantano Mb	B1	34 vc	Spadafora	Enza valley	23.1	0.0	76.9	49.1	22.8	28.1	60.0	19.0	21.0
Pantano	Pantano Mb	B1	35 vc	Spadafora	Enza valley	40.7	1.2	58.1	37.1	31.8	31.1	46.6	37.9	15.5
Pantano	Pantano Mb	B1	37 vc	Spadafora	Enza valley	27.6	0.0	72.4	42.9	22.1	35.1	76.0	7.0	17.0
Cigarello	Vetro Mb	B2a	1750 vc	Spadafora	Enza valley	59.9	7.2	32.8	52.3	18.1	29.6	20.8	4.0	75.2
Cigarello	Vetro Mb	B2a	1751 vc	Spadafora	Enza valley	59.1	7.0	33.8	46.4	20.9	32.7	14.0	5.0	81.0
Cigarello	Vetro Mb	B2a	1752 vc	Spadafora	Enza valley	49.6	9.8	40.6	44.4	20.2	35.4	10.9	1.8	87.3
Cigarello	Vetro Mb	B2a	1753 vc	Spadafora	Enza valley	64.6	13.1	22.3	45.2	18.8	36.0	12.0	6.0	62.0
Cigarello	Vetro Mb	B2a	23 vc	Spadafora	Enza valley	56.4	15.1	28.6	40.1	20.6	39.3	14.0	6.0	80.0
Cigarello	Vetro Mb	B2a	24 vc	Spadafora	Enza valley	76.2	9.7	14.1	58.8	18.9	22.3	22.0	4.0	74.0
Cigarello	Vetro Mb	B2a	1757 vc	Spadafora	Enza valley	87.8	4.7	7.6	57.1	30.8	12.1	8.0	6.0	86.0
Cigarello	Vetro Mb	B2a	1758 vc	Spadafora	Enza valley	83.3	8.5	8.2	56.6	19.6	23.8	11.9	7.9	80.2
Cigarello	Vetro Mb	B2a	1760 vc	Spadafora	Enza valley	76.0	15.6	8.4	46.2	20.8	33.0	8.0	4.0	88.0
Cigarello	Vetro Mb	B2a	1777 vc	Spadafora	Enza valley	63.9	13.2	22.9	43.8	23.6	32.6	7.0	7.0	86.0
Cigarello	Vetro Mb	B2a	1778 vc	Spadafora	Enza valley	72.3	15.4	12.3	43.9	29.5	26.7	8.9	1.0	90.1
Cigarello	Vetro Mb	B2a	1779 vc	Spadafora	Enza valley	73.8	7.4	18.8	52.9	28.3	18.9	21.0	3.0	76.0
Cigarello	Vetro Mb	B2a	1780 vc	Spadafora	Enza valley	65.6	10.9	23.5	56.7	20.1	23.2	5.0	7.0	88.0
Cigarello	Vetro Mb	B2a	1762 vc	Spadafora	Enza valley	72.3	16.0	11.7	45.5	19.2	35.4	13.8	0.9	85.3
Cigarello	Vetro Mb	B2a	1763 vc	Spadafora	Enza valley	64.0	12.7	23.3	44.3	14.3	41.4	20.0	7.0	73.0
Cigarello	Vetro Mb	B2a	V.A. vc	Spadafora	Enza valley	63.8	16.6	19.6	34.0	15.3	50.7	15.1	2.8	82.1
Cigarello	Vetro Mb	B2a	VAG vc	Spadafora	Enza valley	64.7	19.8	15.5	28.9	13.8	57.3	10.5	6.0	83.5
Cigarello	Marola Mb	B2b	9 vc	Spadafora	Enza valley	88.3	4.6	7.2	58.2	27.6	14.2	4.9	9.7	65.4
Cigarello	Marola Mb	B2b	10 vc	Spadafora	Enza valley	84.7	8.4	6.9	52.8	25.6	21.6	6.9	1.0	92.1
Cigarello	Marola Mb	B2b	11 vc	Spadafora	Enza valley	81.4	9.1	9.5	60.3	21.6	18.1	10.0	2.0	88.0
Cigarello	Marola Mb	B2b	1765 vc	Spadafora	Enza valley	71.5	5.7	22.8	51.7	29.4	19.0	2.0	5.9	92.2
Cigarello	Marola Mb	B2b	1766 vc	Spadafora	Enza valley	92.6	3.6	3.9	61.6	28.8	9.7	16.0	5.0	79.0
Cigarello	Marola Mb	B2b	1767 vc	Spadafora	Enza valley	89.7	5.3	5.0	49.6	34.7	15.7	9.0	9.0	82.0
Cigarello	Marola Mb	B2b	1768 vc	Spadafora	Enza valley	91.5	2.9	5.6	59.0	32.2	8.8	12.9	12.9	74.3
Cigarello	Marola Mb	B2b	1770 vc	Spadafora	Enza valley	92.0	4.4	3.6	53.0	33.0	11.0	6.0	7.0	87.0
Cigarello	Marola Mb	B2b	1772 vc	Spadafora	Enza valley	86.8	2.2	11.0	56.4	37.9	5.7	14.0	7.0	78.2
Cigarello	Marola Mb	B2b	1773 vc	Spadafora	Enza valley	81.9	4.0	14.1	56.7	29.9	13.4	2.9	3.8	93.3

formation	member or informal unit	petrofacies	sample	analyst	locality	NCE(neo)	CE	Ci+NCi	E(including chert)	F(neo)+CE	L(neo)+CE	Um+CEnat	Ly(neo)	Ly+CEsd
Cigarello	Mariola Mb	B2b	1775 vc	Spadafora	Enza valley	90.3	6.1	3.6	54.4	27.5	18.1	2.0	7.0	91.0
Cigarello	Mariola Mb	B2b	1776 vc	Spadafora	Enza valley	87.2	3.6	9.2	58.6	29.3	12.2	1.8	3.6	94.6
Cigarello	Sequence S3	B2c	6.2	Spadafora	Enza valley	92.3	0.3	7.4	57.8	31.8	10.5	54.0	21.0	25.0
Cigarello	Sequence S3	B2c	63	Spadafora	Enza valley	93.6	5.2	1.2	54.6	21.3	24.1	54.5	23.8	21.8
Cigarello	Sequence S3	B2c	48	Spadafora	Enza valley	90.5	3.9	5.7	61.5	26.4	12.2	56.4	14.9	28.7
Cigarello	Sequence S3	B2c	52	Spadafora	Enza valley	81.4	0.8	17.7	67.7	13.1	19.2	74.0	8.0	8.0
Cigarello	Sequence S3	B2c	56	Spadafora	Enza valley	86.6	2.3	11.1	51.5	30.5	18.0	76.0	9.0	15.0
Cigarello	Sequence S3	B2c	580	Spadafora	Enza valley	95.1	1.4	3.5	56.6	28.5	14.9	61.4	12.9	25.7
Cigarello	Sequence S3	B2c	80	Spadafora	Enza valley	89.6	2.7	7.7	56.6	30.3	13.1	62.0	19.0	19.0
Cigarello	Sequence S3	B2c	61	Spadafora	Enza valley	92.5	2.1	5.4	55.2	33.8	11.0	62.5	18.3	19.2
Cigarello	Sequence S3	B2c	112	Spadafora	Castel d'Alano	88.1	2.4	9.5	47.3	34.1	18.6	67.0	6.0	27.0
Cigarello	Sequence S3	B2c	113	Spadafora	Castel d'Alano	89.3	3.2	7.5	55.0	32.1	12.9	69.0	12.0	19.0
Cigarello	Sequence S3	B2c	14	Spadafora	Enza valley	84.7	3.7	11.6	58.6	29.1	12.3	59.0	26.0	15.0
Cigarello	Sequence S3	B2c	5	Spadafora	Reno valley	79.1	2.4	18.5	52.5	34.2	13.3	64.0	20.0	16.0
Cigarello	Sequence S3	B2c	6	Spadafora	Reno valley	82.7	9.2	8.2	44.5	34.3	21.1	45.0	23.0	32.0
Cigarello	Sequence S3	B2c	7	Spadafora	Reno valley	81.8	2.3	16.0	53.0	33.5	13.5	62.1	17.5	17.5
Cigarello	Sequence S3	B2c	15	Spadafora	Reno valley	83.4	4.8	11.8	58.8	22.2	19.0	47.0	22.0	31.0
Cigarello	Sequence S3	B2c	16	Spadafora	Reno valley	84.8	5.1	10.1	48.4	29.9	21.7	45.0	19.0	36.0
Cigarello	Sequence S3	B2c	17	Spadafora	Reno valley	79.8	4.7	15.5	50.2	28.3	21.5	50.0	21.0	29.0
Cigarello	Sequence S3	B2c	18	Spadafora	Reno valley	79.3	3.4	17.4	53.4	35.1	11.6	49.0	13.0	38.0
Cigarello	Sequence S3	B2c	19	Spadafora	Reno valley	79.3	7.6	13.0	49.7	26.6	23.7	36.0	21.0	43.0
Cigarello	Sequence S3	B2c	54	Spadafora	Reno valley	87.4	2.7	9.9	50.5	37.0	12.5	48.6	15.2	36.2
Cigarello	Sequence S3	B2c	59	Spadafora	Reno valley	86.6	2.3	11.1	56.6	28.8	14.6	55.0	20.0	25.0
Cigarello	Sequence S3	B2c	46b	Spadafora	Idice valley	96.0	2.0	2.0	53.3	35.2	11.5	70.6	12.7	16.7
Termino	Sequence S4	B2d	27	Spadafora	Zena valley	88.7	10.2	1.1	44.4	23.6	32.0	24.3	7.2	68.5
Termino	Sequence S4	B2d	29	Spadafora	Zena valley	92.9	5.4	1.7	48.4	29.7	21.9	17.0	8.0	75.0
Termino	Sequence S4	B2d	8	Spadafora	Reno valley	93.4	4.1	2.5	54.9	23.3	21.8	21.0	6.0	73.0
Termino	Sequence S4	B2d	9	Spadafora	Reno valley	78.8	10.6	10.6	46.0	21.4	32.6	30.0	1.0	69.0
Termino	Sequence S4	B2d	11	Spadafora	Reno valley	79.9	14.2	6.0	45.6	24.3	30.1	26.0	7.0	67.0
Termino	Sequence S4	B2d	12	Spadafora	Reno valley	81.9	11.6	6.5	38.9	30.2	30.9	31.0	3.0	66.0
Termino	Sequence S4	B2d	30	Spadafora	Zena valley	90.5	6.0	3.6	50.0	20.2	20.8	20.0	6.0	74.0
Termino	Sequence S4	B2d	31	Spadafora	Zena valley	87.5	8.2	4.2	44.1	20.5	35.4	16.7	5.6	77.8
Termino	Sequence S4	B2d	32	Spadafora	Zena valley	91.9	4.7	3.5	42.2	27.4	30.4	19.0	6.0	75.0
Termino	Sequence S4	B2d	86	Spadafora	Reno valley	87.5	7.8	4.8	46.7	21.5	31.9	11.9	4.0	84.2
Termino	Sequence S4	B2d	87	Spadafora	Reno valley	90.7	6.5	2.8	47.8	22.0	30.1	4.8	11.5	83.7
Termino	Sequence S4	B2d	90	Spadafora	Reno valley	90.1	8.6	1.3	49.5	22.3	12.0	5.0	12.0	83.0
Termino	Sequence S4	B2d	94	Spadafora	Reno valley	88.0	6.6	5.4	49.2	18.7	32.1	10.9	4.0	85.1
Termino	Sequence S4	B2d	98	Spadafora	Reno valley	91.9	4.4	3.7	56.6	19.6	23.8	5.0	8.0	87.0

KEYS FOR PETROGRAPHIC PARAMETERS:

NCE: Non-Carbonate Extrabasinal

CE: Carbonate Extrabasinal

Cl: Carbonate Intrabasinal

Q: Quartz

F: Feldspars

L: fine-grained lithics

Um: metamorphic lithics

Lv: volcanic lithics

formation	member or informal unit	ostrotocite	sample	analyst	locality	NCE(-neov)	CE	Cl+NCI	Q(including chert)	F(neov)	Q(neov)+CE	Um+CEmet	Lv(-neov)	Ls+CEsed
Ls: sedimentary lithics														
CEmet: metamorphic Carbonate Extrabasinal														
CEsed: sedimentary Carbonate Extrabasinal (-neov); neovalcanic excluded														