

Supplementary material for the article:

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Table S1a. Mean metal concentrations with standard deviation, minimum and maximum values for each technique and SE steps (mg kg⁻¹, dry weight)

BCR step		Al	Ba	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	
I	CSE	Average	26	16	29,498	0.14	0.26	0.073	25.7	16.30	286	3,004
		StDev	±21	±5	±9,844	±0.08	±0.20	±0.162	±102.1	±19.19	±311	±1,751
		Min	6	5	6,977	0.08	0.01	0.005	0.1	1.76	14	735
		Max	101	30	51,609	0.48	1.06	0.829	559.9	89.52	1,178	8,400
	MWSE	Average	159	21	15,986	0.10	0.29	0.080	10.3	67.22	259	838
		StDev	±205	±17	±9,278	±0.06	±0.33	±0.135	±34.7	±124.18	±316	±646
		Min	8	2	3,174	0.03	0.03	0.004	0.1	4.88	6	82
		Max	729	65	41,999	0.29	1.15	0.758	213.3	601.97	1,175	2,207
	USSE	Average	80	12	14,516	0.09	0.25	0.146	23.8	54.95	201	841
		StDev	±117	±8	±7,483	±0.08	±0.31	±0.413	±94.0	±109.96	±210	±723
		Min	7	3	3,679	0.02	0.03	0.005	0.1	0.02	10	145
		Max	428	42	35,568	0.36	1.59	2.206	554.5	573.60	850	4,579
II	CSE	Average	1,358	50	3,745	0.17	3.31	1.64	26.2	2,753	171	1,056
		StDev	±658	±39	±2,154	±0.12	±1.57	±1.76	±78.7	±1,064	±159	±663
		Min	248	5	455	0.04	0.61	0.66	1.0	1,373	9	246
		Max	2,675	196	9,918	0.70	6.17	9.20	393.4	6,431	553	2,901
	MWSE	Average	257	23	6,773	0.15	1.98	0.24	29.0	343	82	813
		StDev	±141	±15	±3,543	±0.18	±1.34	±0.46	±100.2	±252	±78	±520
		Min	30	4	1,124	0.04	0.28	0.01	0.4	99	4	205
		Max	662	62	17,161	1.05	4.53	2.58	469.3	1,099	318	2,618
	USSE	Average	317	26	8,933	0.16	1.66	0.45	23.2	633	116	1,090
		StDev	±153	±17	±4,422	±0.14	±1.03	±0.92	±88.3	±491	±138	±658
		Min	81	3	725	0.04	0.28	0.04	0.4	194	6	355
		Max	650	70	22,008	0.85	4.49	5.14	485.1	1,902	627	3,342
III	CSE	Average	1,141	10	190	0.07	1.22	3.78	4.42	992	121	974
		StDev	±808	±18	150	±0.11	±1.15	±2.96	±6.35	±1,185	±97	±400
		Min	117	1	49	0.01	0.21	0.96	0.02	85	5	344
		Max	4,296	87	826	0.73	7.95	14.11	31.37	6,886	365	1,949
	MWSE	Average	695	12	4,983	0.07	0.62	2.85	15.15	548	61	1,173
		StDev	±784	±9	±3,589	±0.11	±0.62	±3.05	±50.43	±864	±54	±611
		Min	29	2	236	0.01	0.13	0.03	0.09	47	5	255
		Max	2,807	43	18,461	0.75	3.19	13.62	238.78	5,496	169	2,915
	USSE	Average	606	19	4,307	0.09	0.81	2.69	7.84	533	60	1,327
		StDev	±711	±27	±2,310	±0.10	±0.68	±2.97	±19.58	±834	±53	±765
		Min	48	1	16	0.02	0.19	0.48	0.05	87	6	275
		Max	3,252	127	9,086	0.68	2.86	13.56	119.79	5,226	201	3,606
IV	CSE	Average	8,071	18	201.49	0.22	3.19	19.9	14.7	13,502	812	3,102
		StDev	±4,603	±20	±99.78	±0.10	±1.40	±66.4	±9.2	±5,337	±593	±1,428
		Min	1,027	2	0.01	0.07	0.58	4.0	0.8	4,649	63	472
		Max	16,393	108	388.97	0.38	5.36	434.3	28.8	22,589	1,730	5,702
	MWSE	Average	10,376	45	1,676.58	0.25	5.01	21.8	28.6	14,966	1,060	5,115
		StDev	±5,506	±99	±1,894.87	±0.13	±1.43	±65.6	±33.6	±5,477	±721	±1,609
		Min	1,623	3	18.61	0.08	1.06	5.2	2.0	5,858	112	1,276
		Max	18,734	581	8,386.78	0.47	6.94	430.8	205.9	24,051	2,126	8,513
	USSE	Average	8,747	27	610.62	0.20	3.97	18.5	19.7	13,332	952	3,623
		StDev	±5,079	±53	±678.65	±0.09	±1.49	±56.3	±12.5	±5,173	±711	±1,533
		Min	1,161	2	0.01	0.06	0.59	2.6	3.1	4,459	88	759
		Max	16,280	348	3,652.72	0.48	6.74	369.6	68.1	22,843	2,273	6,468

Table S1b. Mean metal concentrations with standard deviation, minimum and maximum values for each technique and SE steps (mg kg⁻¹, dry weight)

BCR step		Mn	Na	Ni	Pb	Si	Sn	Sr	V	Zn	
I	CSE	Average	127	17.7	1.8	1.65	226	0.080	38	0.095	50.57
		StDev	±49	±28.3	±0.8	±4.10	±109	±0.091	±15	±0.113	±131.09
		Min	45	2.2	0.6	0.24	48	0.005	15	0.004	0.48
		Max	376	167.3	4.3	25.42	437	0.397	73	0.422	534.89
	MWSE	Average	69	11.3	1.8	1.67	126	0.628	25	0.941	24.50
		StDev	±56	±21.8	±2.2	±2.04	±101	±1.129	±12	±1.330	±40.89
		Min	11	0.2	0.2	0.02	18	0.049	3	0.047	0.71
		Max	211	131.4	9.2	9.99	345	5.473	52	4.946	189.10
	USSE	Average	56	15.5	1.0	3.97	113	0.520	22	0.332	41.29
		StDev	±31	±26.1	±0.8	±13.16	±77	±1.046	±11	±0.548	±121.81
		Min	16	0.2	0.1	0.02	17	0.004	8	0.005	0.01
		Max	154	150.7	3.5	80.03	334	5.525	54	2.933	595.80
II	CSE	Average	252	2.6	9.6	33.5	1,175	22.6	8	6.7	72
		StDev	±175	±2.3	±4.2	±63.6	±491	±10.0	±5	±3.5	±118
		Min	33	0.5	2.8	8.8	241	8.9	1	0.9	9
		Max	589	9.1	21.8	345.4	2,144	60.1	24	17.3	578
	MWSE	Average	247	2.7	3.7	12.1	160	3.2	11	1.8	49
		StDev	±148	±3.8	±2.2	±17.3	±78	±2.4	±8	±1.5	±123
		Min	46	0.5	1.0	2.2	26	0.8	3	0.2	2
		Max	580	24.6	10.3	97.2	360	10.2	45	9.0	538
	USSE	Average	222	3.0	3.8	13.0	232	5.9	14	2.4	45
		StDev	±130	±3.0	±2.6	±20.1	±113	±4.9	±9	±1.8	±98
		Min	25	0.4	1.1	2.3	47	1.3	3	0.4	2
		Max	496	17.2	13.0	78.2	502	19.2	47	10.4	546
III	CSE	Average	29	5.3	7.34	25.6	1,764	9.9	1.2	5.2	11.61
		StDev	±13	±4.3	±3.20	±53.5	±913	±12.1	±1.1	±4.8	±12.73
		Min	6	0.4	1.14	0.6	401	0.6	0.3	0.8	1.15
		Max	64	16.1	18.54	275.7	4,587	70.8	5.2	30.1	64.52
	MWSE	Average	38	1.7	3.71	13.7	727	5.3	6.1	6.0	28.17
		StDev	±24	±1.4	±4.63	±33.8	±698	±8.6	±4.1	±5.7	±71.94
		Min	10	0.2	0.02	0.5	58	0.4	1.0	0.4	0.22
		Max	127	5.8	24.82	196.9	2,789	55.0	18.8	35.3	383.06
	USSE	Average	50	2.6	4.40	14.7	649	5.2	5.7	5.6	14.45
		StDev	±43	±2.4	±4.27	±25.8	±572	±8.4	±3.0	±5.4	±32.21
		Min	8	0.1	0.80	1.3	80	0.9	1.3	0.5	0.01
		Max	152	10.1	22.69	111.1	2,565	52.8	13.4	31.8	176.66
IV	CSE	Average	119	2.75	14.1	14.2	234	156	2.31	17	43
		StDev	±105	±1.40	±5.2	±16.8	±44	±68	±1.13	±9	±34
		Min	27	0.02	3.1	2.9	147	48	0.01	4	8
		Max	717	5.75	24.8	94.1	344	278	3.90	37	229
	MWSE	Average	152	10.99	23.4	25.8	270	193	3.31	21	75
		StDev	±48	±8.78	±5.8	±47.1	±74	±75	±1.66	±10	±65
		Min	45	0.01	8.4	6.3	166	73	0.74	5	26
		Max	227	39.11	39.5	203.7	503	310	10.61	44	421
	USSE	Average	115	3.45	28.3	16.3	248	159	3.19	18	64
		StDev	±46	±1.77	±62.8	±12.1	±93	±74	±1.74	±9	±70
		Min	24	0.45	4.1	5.6	96	45	0.46	4	15
		Max	190	9.06	419.2	32.6	551	336	8.05	36	437