

Appendix 8a – Summary statistics for BRAVO monitoring data

Table 1. Statistics for fine 24-hour high sensitivity particulate data collected at K-Bar (ng/m³). Data are from the 19 May 2003 data set. The “P” in front of some elements signifies that the original analysis was done with PIXE. LRNC is absorption expressed as an equivalent concentration of black carbon.

Species	mean	se.mean	median	sd	max	min	nvalid	nmiss	nbdl
AG	0	0	0	0	0	0	111	14	111
AS	0.01	0	0	0.04	0.15	0	111	14	100
AU	0	0	0	0	0	0	111	14	111
BR	1.37	0.06	1.34	0.63	3.13	0	111	14	7
CA.ION	91	7.35	70.83	78.1	453.47	-15.22	113	12	0
CD	0	0	0	0	0	0	111	14	111
CL.ION	-63.16	10.01	-41.33	106.44	169.27	-663.96	113	12	0
CO	0	0	0	0	0	0	111	14	111
CU	0.22	0.02	0.19	0.18	1.07	0	111	14	11
E1	305.53	18.43	274.36	195.91	1481.21	-2.63	113	12	0
E2	104.67	8.86	66.17	94.18	622.79	9.64	113	12	0
E3	18.18	3.17	6.4	33.71	246.58	-11.94	113	12	8
FE	70.18	8.39	30.16	88.37	389.42	0.62	111	14	0
GA	0.04	0.01	0	0.06	0.3	0	111	14	60
H	304.8	19.34	248.44	203.78	1054.51	0	111	14	1
HG	0.03	0.01	0	0.06	0.41	0	111	14	85
K.ION	28.84	2.2	24.21	23.4	189.33	-4.23	113	12	0
LRNC	2.57	0.12	2.44	1.26	6.98	0.11	113	12	0
MASS	6472.85	371.08	6315.79	3944.63	17058.42	33.29	113	12	0
MG.ION	15.49	1.53	10.86	16.22	66.49	-14.12	113	12	0
NA.ION	92.14	7.67	79.32	81.49	438.88	-3.71	113	12	0
NH4	803.13	57.9	633.97	615.49	3036.12	-5.24	113	12	0
NI	0.2	0.02	0.14	0.19	0.95	0	111	14	19
NO2	9.36	4.64	-2.9	49.31	402.42	-86.84	113	12	0
NO3	206.14	12.79	168.63	136	671.99	-18.19	113	12	0
O1	85.84	13.02	46.92	138.36	786.19	-68.24	113	12	1
O2	242.81	16.73	205.45	177.88	1143.87	45.2	113	12	0
O3	132.11	11.12	109.82	118.2	517.33	-432.88	113	12	0
O4	183.98	12.04	151.49	128.02	694.76	11.33	113	12	0
OP	283.14	18.73	236.63	199.08	1629.65	0	113	12	2
PAL	110.83	13.85	49.86	145.89	722.5	0	111	14	3
PB	0.71	0.04	0.64	0.47	3.13	0	111	14	5
PBA	0	0	0	0	0	0	111	14	111
PCA	75.48	6.54	55.38	68.89	454.05	0.45	111	14	0
PCL	2.2	1.38	0	14.5	131.37	0	111	14	97
PCR	0.06	0.01	0.03	0.08	0.4	0	111	14	35
PK	41.71	2.98	32.12	31.44	138.71	0.39	111	14	0
PMG	6.69	1.09	2.31	11.53	71.22	0	111	14	55
PMN	1.35	0.14	0.67	1.46	6.22	0.03	111	14	0
PNA	77.68	7.15	63.2	75.28	370.73	0	111	14	24

PP	0	0	0	0.03	0.27	0	111	14	110
PS	802.37	58.59	539.27	617.34	3102.24	0.63	111	14	0
PSI	272.66	29.72	149.12	313.11	1486.89	1.74	111	14	0
PTI	8.63	1.09	3.22	11.53	50.23	0.04	111	14	0
Species	mean	se.mean	median	sd	max	min	nvalid	nmiss	nbdl
PV	0.72	0.06	0.52	0.64	2.98	0	111	14	2
RB	0.21	0.02	0.14	0.19	0.91	0	111	14	11
SE	0.27	0.02	0.23	0.17	0.83	0	111	14	5
SO2	737.38	91.44	491.52	807.61	3909.65	27.69	78	47	0
SO4	2536.84	182.95	1885.13	1944.8	9672.11	24.28	113	12	0
SR	0.57	0.05	0.4	0.54	2.45	0	111	14	8
Y	0.09	0.01	0.07	0.08	0.42	0	111	14	33
ZN	1.54	0.11	1.23	1.14	6.16	0	111	14	5
ZR	0.05	0.01	0	0.09	0.51	0	111	14	67

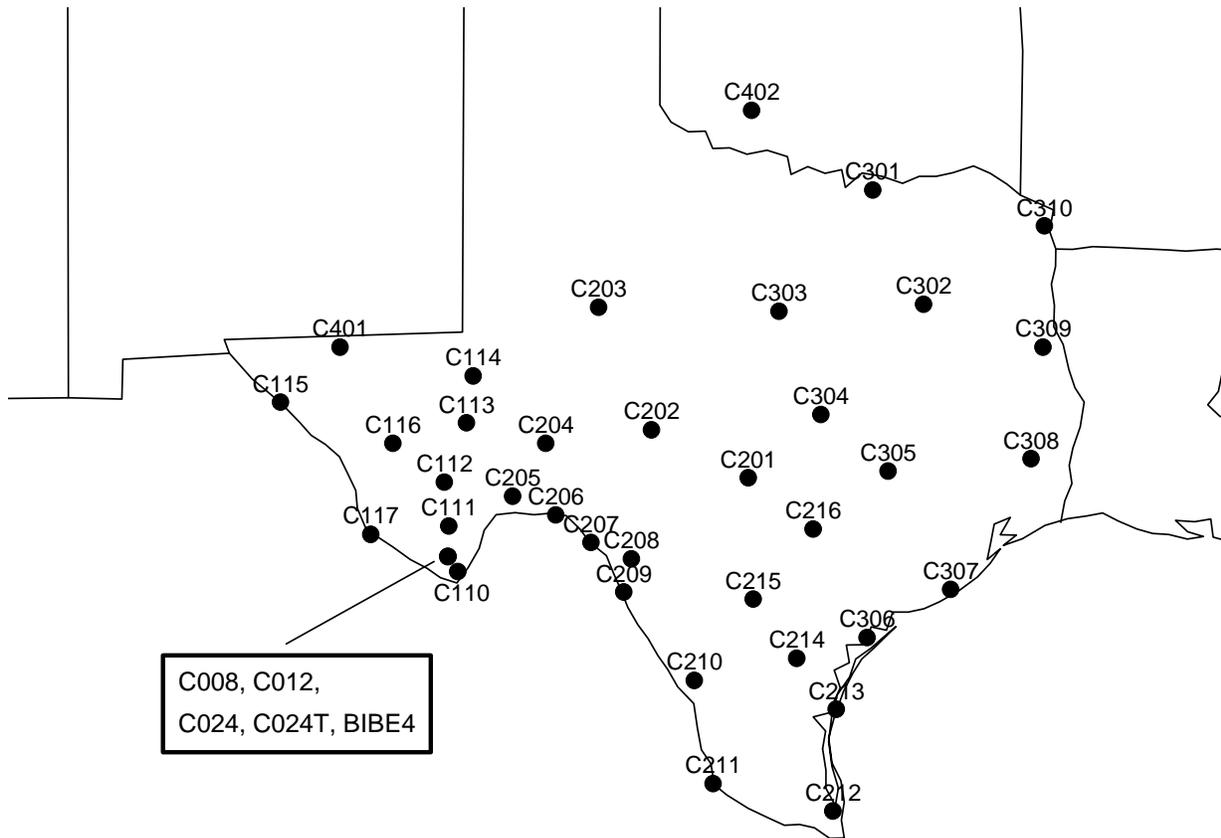


Figure 1. Map of BRAVO monitoring locations by site code.

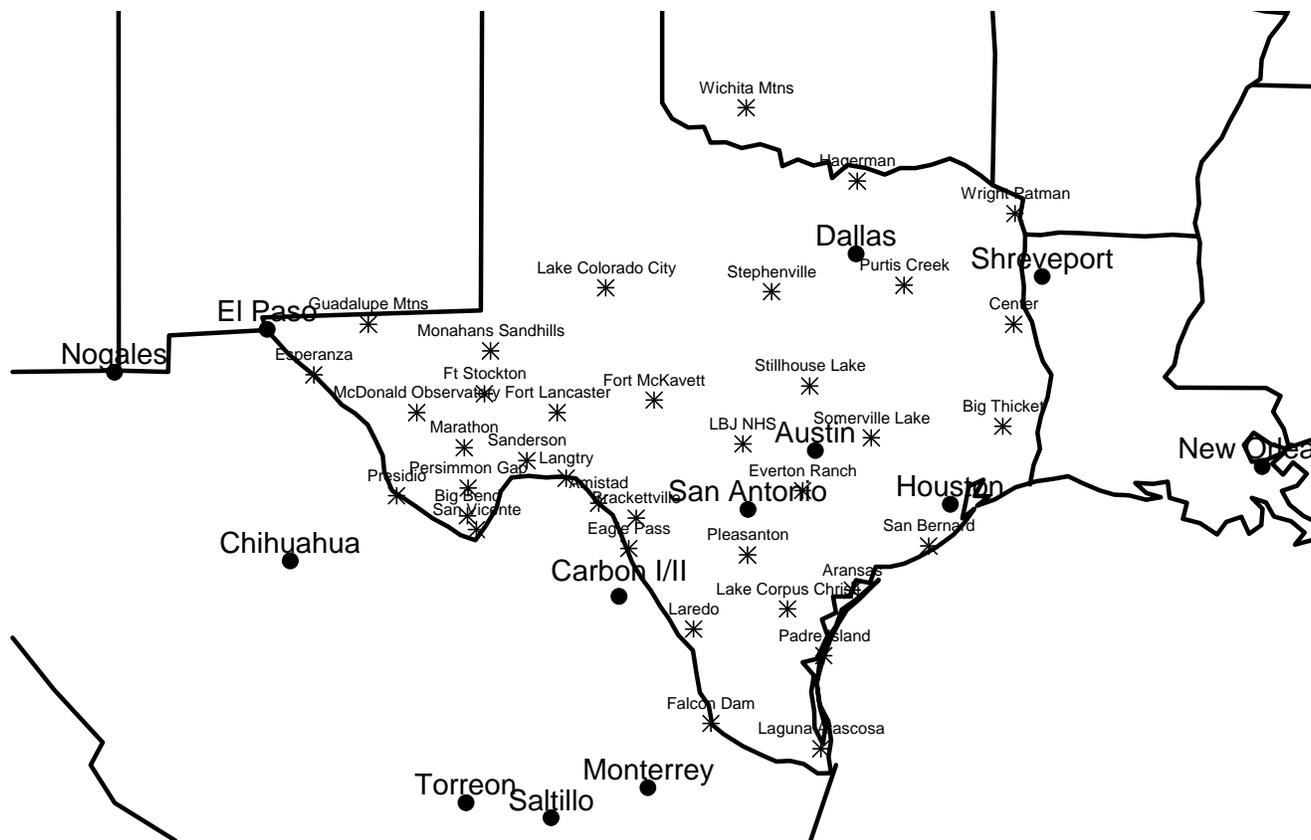


Figure 2. BRAVO monitoring site locations (small font) and some major cities and the Carbón I/II power plants (larger font).

The following tables are sorted alphabetically by species name. Species for which all or nearly all concentrations were below detectable limits are not shown. Unique sites are

BIBE4 – original IMPROVE location of IMPROVE monitor at Big Bend National Park. This monitor was later moved to K-Bar and rename C024.

C024T – K-Bar, speciated 24-hour PM10 data.

C008, C110, C111, C112, C113, C114 – 6-hour duration sites. C008 is at K-Bar.

C012 – K-Bar 12-hour duration site.

Note: - These statistics are for the entire monitoring period of BRAVO, not the truncated time period used for Empirical Orthogonal Function (EOF) analysis as discussed in Section 8.1.

Table 2. Statistics for aluminum by site (ng/m³).

Site	mean	semean	median	sd	max	min	n	n.bdl
BIBE4	218.71	29.09	238.12	119.96	457.21	32.28	17	0
C008	85.14	11.87	0	232.38	2086	0	383	254
C012	102.53	15.27	30.9	197.35	1021.32	0	167	59
C024T	281.25	31.76	200.52	302.95	2255.28	0	91	4
C110	88.25	10.12	0	200.59	1160.6	0	393	258
C111	60.89	7.45	0	149.08	978.1	0	400	274
C112	71.91	8.5	0	173.68	1157.55	0	417	280
C113	89.29	9.61	0	197.19	1404.69	0	421	260
C114	97.91	10.34	0	209.64	1321.81	0	411	226
C115	78.21	12.27	16.4	119.56	514.02	0	95	45
C116	89.31	14.85	34.21	146.28	757.02	0	97	15
C117	124.03	13.68	72.12	132.62	747.98	0	94	3
C201	181	28.42	43.39	308.67	1624.88	0	118	16
C202	176.91	27.83	49.62	301.05	1742.16	0	117	19
C203	107.77	24.47	39.58	244.7	1389.26	0	100	41
C204	164.36	29.94	67.08	294.84	2036.11	0	97	2
C205	194.16	32.35	64.88	357.33	3214.22	0	122	9
C206	223.39	31.7	74.05	335.49	1842.84	0	112	7
C207	238.43	31.82	68.04	348.58	1633.41	0	120	7
C208	197.18	33.09	49.54	345.5	1551.38	0	109	22
C209	311.75	41.04	103.59	420.5	1683.71	0	105	6
C210	229.63	39.31	53.06	419.74	1846.91	0	114	28
C211	172.16	41.56	0	409.3	1938.91	0	97	49
C212	248.37	39.17	43.37	420.02	2064.24	0	115	24
C213	164.8	44.03	45.94	357.72	1775.4	0	66	22
C214	153.01	45.15	39.88	403.84	1937.15	0	80	23
C215	300.75	49.11	79.69	508	2336.93	0	107	10
C216	109.63	30.96	0	288.75	1932.97	0	87	46
C301	29.65	6.11	0	59.9	340.71	0	96	64
C302	42.72	11.19	0	107.37	720.87	0	92	63
C303	113.1	13.33	72.16	130.62	735.02	0	96	12
C304	178.69	35.17	46.28	368.87	2140.2	0	110	47
C305	136.24	30.38	35.14	318.67	1937.8	0	110	43
C306	170.77	45.93	0	433.32	2931.11	0	89	53
C307	86.24	22.58	0	225.77	1489.83	0	100	65
C308	53.04	13.37	0	127.53	885.46	0	91	55
C309	59.28	14.4	0	143.31	926.98	0	99	58
C310	37.89	11.81	0	117.49	772.66	0	99	73
C401	34.12	9.86	0	80.74	434.56	0	67	41
C402	6.23	2.92	0	17.79	97.2	0	37	30

Table 3. Statistics for arsenic by site (ng/m³).

Site	mean	semean	median	sd	max	min	n	n.bdl
BIBE4	0.18	0.04	0.11	0.16	0.53	0	17	2
C008	0.1	0.01	0	0.22	1.27	0	383	287
C012	0.11	0.01	0	0.15	0.62	0	167	95
C024T	0.22	0.02	0.16	0.23	1.04	0	91	29
C110	0.12	0.01	0	0.21	1.15	0	393	269
C111	0.09	0.01	0	0.18	1.53	0	400	282
C112	0.13	0.01	0	0.23	1.5	0	417	267
C113	0.27	0.01	0.26	0.28	1.58	0	421	152
C114	0.28	0.01	0.27	0.25	1.91	0	411	114
C115	0.44	0.04	0.3	0.44	2.9	0	95	4
C116	0.17	0.02	0.15	0.23	1.89	0	97	32
C117	0.14	0.02	0.11	0.17	0.86	0	94	37
C201	0.18	0.02	0.16	0.17	0.88	0	118	38
C202	0.13	0.01	0.11	0.13	0.69	0	117	39
C203	0.29	0.01	0.27	0.15	0.93	0	100	2
C204	0.14	0.02	0.13	0.15	0.92	0	97	35
C205	0.11	0.01	0.1	0.12	0.49	0	122	49
C206	0.15	0.01	0.15	0.15	0.67	0	112	38
C207	0.15	0.01	0.14	0.15	0.67	0	120	47
C208	0.18	0.02	0.14	0.18	0.7	0	109	40
C209	0.14	0.02	0.08	0.17	0.6	0	105	52
C210	0.18	0.02	0.16	0.17	1.04	0	114	33
C211	0.34	0.02	0.31	0.19	0.81	0	97	5
C212	0.27	0.02	0.24	0.2	0.89	0	115	18
C213	0.43	0.06	0.32	0.49	2.48	0	66	13
C214	0.49	0.05	0.42	0.45	1.93	0	80	15
C215	0.26	0.02	0.24	0.2	0.96	0	107	18
C216	0.38	0.02	0.39	0.22	1.39	0	87	8
C301	0.48	0.03	0.49	0.26	1.31	0	96	8
C302	0.46	0.04	0.37	0.38	2.2	0	92	12
C303	0.19	0.02	0.17	0.19	1	0	96	36
C304	0.24	0.04	0.18	0.42	3.9	0	110	42
C305	0.27	0.02	0.24	0.24	1.21	0	110	31
C306	0.45	0.03	0.41	0.24	1.12	0	89	4
C307	0.6	0.03	0.56	0.33	1.96	0	100	1
C308	0.64	0.03	0.6	0.28	1.38	0	91	2
C309	0.73	0.04	0.68	0.39	2.61	0	99	5
C310	0.65	0.04	0.59	0.38	2.47	0	99	5
C401	0.18	0.03	0.11	0.26	1.31	0	67	23
C402	0.25	0.05	0.22	0.32	1.57	0	37	14

Table 4. Statistics for bromine by site (ng/m³).

Species	mean	semean	median	sd	max	min	n	n.bdl
BIBE4	1.25	0.11	1.25	0.47	2.12	0.52	17	0
C008	1.4	0.03	1.36	0.61	3.74	0	383	8
C012	1.25	0.04	1.19	0.55	3.18	0	167	3
C024T	1.8	0.08	1.81	0.81	3.68	0	91	2
C110	1.46	0.03	1.37	0.66	4.65	0	393	7
C111	1.39	0.03	1.34	0.57	3.81	0	400	8
C112	1.44	0.03	1.36	0.59	3.4	0	417	7
C113	1.58	0.04	1.49	0.8	5.24	0	421	19
C114	1.59	0.04	1.51	0.79	8.67	0	411	17
C115	1.53	0.06	1.42	0.63	4.04	0.12	95	0
C116	1.4	0.06	1.32	0.61	5.36	0.47	97	0
C117	1.5	0.07	1.5	0.63	2.93	0.23	94	0
C201	1.68	0.08	1.4	0.9	4.6	0	118	2
C202	1.45	0.06	1.27	0.62	3.5	0.37	117	0
C203	1.7	0.06	1.62	0.58	3.03	0.59	100	0
C204	1.67	0.08	1.54	0.77	4.1	0	97	1
C205	1.78	0.08	1.68	0.93	7.59	0	122	2
C206	1.89	0.08	1.77	0.88	4.5	0	112	2
C207	1.98	0.09	1.72	0.98	4.97	0.58	120	0
C208	1.99	0.11	1.65	1.15	8.2	0	109	1
C209	2.15	0.1	1.96	1.05	5.1	0.36	105	0
C210	1.82	0.12	1.51	1.23	6.38	0	114	3
C211	2.06	0.13	1.6	1.3	6.84	0.57	97	0
C212	1.77	0.13	1.32	1.36	6.98	0.37	115	0
C213	4.6	0.52	3.08	4.2	19.28	0.78	66	0
C214	2.23	0.16	1.85	1.44	8.29	0	80	1
C215	2.03	0.12	1.57	1.22	6.97	0.22	107	0
C216	1.97	0.12	1.69	1.09	6.27	0.37	87	0
C301	2.21	0.09	2.12	0.87	4.51	0.62	96	0
C302	2.06	0.11	1.72	1.07	6.1	0	92	1
C303	2.2	0.08	2.18	0.79	4.59	0.66	96	0
C304	1.93	0.08	1.74	0.85	5.75	0.61	110	0
C305	1.85	0.09	1.64	0.96	5.86	0.56	110	0
C306	2.16	0.16	1.67	1.54	6.69	0.28	89	0
C307	2.98	0.31	2.12	3.13	24.11	0	100	1
C308	2.19	0.14	1.86	1.35	9.33	0.54	91	0
C309	2.65	0.14	2.33	1.36	7.94	0.82	99	0
C310	2.19	0.14	1.73	1.44	9.4	0.64	99	0
C401	1.63	0.07	1.63	0.54	3.13	0	67	1
C402	1.22	0.18	1.16	1.11	3.84	0	37	12

Table 5. Statistics for calcium by site (ng/m³).

Site	mean	semean	median	sd	max	min	n	n.bdl
BIBE4	76.96	8.8	85.64	36.28	143.48	21.6	17	0
C008	84.78	3.94	63.49	77.11	674.34	0	383	8
C012	72.82	5.1	56.63	65.87	383.89	0	167	1
C024T	403.71	31.7	347.54	302.43	2198.76	0	91	2
C110	122.58	5.15	97.49	102.1	931.61	0	393	3
C111	70	2.8	52.5	55.97	486.27	0	400	2
C112	170.55	7.73	124.77	157.83	1314.91	2.32	417	0
C113	178.93	8.71	130.29	178.73	1618.66	14.09	421	0
C114	132.92	4.33	112.9	87.74	805.6	6.37	411	0
C115	174.38	17.68	110.5	172.35	966.56	16.04	95	0
C116	62.56	6.05	43.02	59.59	402.07	9.05	97	0
C117	147.28	13.9	100.06	134.76	776.46	12.06	94	0
C201	98.86	7	78.92	76.07	462.56	0	118	1
C202	106.78	7.97	79.53	86.26	522.64	17.91	117	0
C203	103.46	7.41	89.84	74.12	450	16.96	100	0
C204	132.86	9.6	105.43	94.52	626.9	20.84	97	0
C205	130.32	13.08	96.7	144.49	1092.67	0	122	1
C206	128.28	8.61	101.62	91.16	551.21	6.54	112	0
C207	152.64	9.32	114.21	102.08	479.54	20.81	120	0
C208	172.07	15.77	127.48	164.6	872.24	0	109	3
C209	250.83	24.43	179.87	250.34	1727	20.56	105	0
C210	102.91	9.44	74.03	100.77	503.51	0	114	1
C211	101.94	9.8	68.24	96.52	452.08	18.72	97	0
C212	92.58	9.92	43.7	106.34	522	15	115	0
C213	105.33	11.94	63.73	96.98	415.76	12.72	66	0
C214	73.46	9	51.51	80.53	375.66	0	80	1
C215	252.66	24.4	141.92	252.43	1209.89	15.81	107	0
C216	110.54	11.39	77.9	106.22	590.4	0	87	4
C301	146.87	9.27	134.72	90.84	506.73	6.22	96	0
C302	60.99	3.63	55.58	34.81	218.57	0	92	1
C303	181.92	11.09	168.25	108.63	564.41	14	96	0
C304	130.43	8.42	107.78	88.33	571.35	25.28	110	0
C305	75.24	7.94	51.8	83.26	556.7	14.12	110	0
C306	86.89	9.16	57.55	86.38	577.79	19.88	89	0
C307	261.69	34.97	112.7	349.72	1863.29	16.27	100	0
C308	43.3	3.39	34.3	32.38	234.73	12.67	91	0
C309	58.21	3.76	49.75	37.42	237.38	16.54	99	0
C310	52.56	3.68	42.72	36.58	216.13	13.53	99	0
C401	66.4	6.16	52.28	50.41	256.81	14.48	67	0
C402	84.41	13.79	59.62	83.85	484.24	0	37	1

Table 6. Statistics for chlorine by site (ng/m³).

Site	mean	semean	median	sd	max	min	n	n.bdl
BIBE4	3.86	3.86	0	15.93	65.68	0	17	16
C008	0.7	0.34	0	6.68	117.42	0	383	374
C012	0.07	0.04	0	0.57	5.39	0	167	164
C024T	5.43	2.17	0	20.72	116.54	0	91	82
C110	1.26	0.55	0	10.91	158.18	0	393	380
C111	0.54	0.29	0	5.76	108.56	0	400	391
C112	0.16	0.09	0	1.8	28.06	0	417	413
C113	0.96	0.53	0	10.9	179.65	0	421	414
C114	1.04	0.53	0	10.67	186.26	0	411	398
C115	0	0	0	0	0	0	95	95
C116	0.04	0.04	0	0.44	4.33	0	97	96
C117	0.05	0.03	0	0.34	2.58	0	94	92
C201	3.09	2.13	0	23.15	210.29	0	118	114
C202	3.64	2.27	0	24.51	227.61	0	117	113
C203	0	0	0	0	0	0	100	100
C204	0.02	0.02	0	0.19	1.83	0	97	96
C205	0.1	0.06	0	0.62	4.41	0	122	119
C206	7.16	4.06	0	42.93	395.35	0	112	106
C207	14.07	6.33	0	69.35	534.03	0	120	111
C208	2.58	1.14	0	11.92	77.39	0	109	101
C209	4.67	3.64	0	37.26	360.4	0	105	103
C210	16.17	6.71	0	71.61	629.75	0	114	97
C211	5.69	3.39	0	33.36	282.03	0	97	93
C212	134.04	25.06	0	268.73	1796.15	0	115	73
C213	319.04	60.22	102.24	489.2	1963.42	0	66	31
C214	15.3	5.28	0	47.21	221.16	0	80	70
C215	83.99	25.66	0	265.42	1834.2	0	107	85
C216	3.69	3.69	0	34.45	321.35	0	87	86
C301	0	0	0	0	0	0	96	96
C302	0	0	0	0	0	0	92	92
C303	0	0	0	0	0	0	96	96
C304	0.98	0.98	0	10.33	108.33	0	110	109
C305	16.3	9.25	0	97.04	851.78	0	110	105
C306	109.72	32.99	0	311.21	2085.12	0	89	74
C307	38.69	12.62	0	126.2	714.59	0	100	88
C308	0	0	0	0	0	0	91	91
C309	0	0	0	0	0	0	99	99
C310	0	0	0	0	0	0	99	99
C401	0	0	0	0	0	0	67	67
C402	0	0	0	0	0	0	37	37

Table 7. Statistics for chromium by site (ng/m³).

Site	mean	semean	median	sd	max	min	n	n.bdl
BIBE4	0.36	0.14	0	0.59	1.64	0	17	12
C008	1.54	0.2	0	3.92	40.75	0	383	291
C012	0.52	0.1	0	1.28	10.77	0	167	132
C024T	1	0.17	0	1.58	9.97	0	91	57
C110	1.54	0.24	0	4.81	79.76	0	393	281
C111	1.46	0.14	0	2.7	23.55	0	400	276
C112	1.37	0.13	0	2.55	24.18	0	417	293
C113	1.37	0.11	0	2.33	9.63	0	421	293
C114	1.52	0.12	0	2.44	13.63	0	411	269
C115	0.25	0.06	0	0.57	2.77	0	95	77
C116	0.59	0.09	0	0.89	6.03	0	97	53
C117	0.6	0.1	0	0.95	4.86	0	94	56
C201	0.57	0.07	0	0.81	4.09	0	118	69
C202	0.46	0.08	0	0.86	4.64	0	117	81
C203	0.22	0.05	0	0.45	1.99	0	100	79
C204	0.66	0.09	0	0.93	6.22	0	97	50
C205	0.53	0.08	0	0.85	5.33	0	122	78
C206	0.54	0.08	0	0.89	3.7	0	112	74
C207	0.55	0.09	0	0.93	3.75	0	120	82
C208	0.72	0.11	0	1.11	6.23	0	109	65
C209	1.11	0.22	0	2.28	18.92	0	105	60
C210	0.62	0.08	0	0.84	4.1	0	114	68
C211	0.23	0.05	0	0.51	2.3	0	97	78
C212	0.44	0.07	0	0.77	3.19	0	115	81
C213	0.5	0.13	0	1.06	4.61	0	66	49
C214	0.64	0.08	0	0.74	2.5	0	80	41
C215	0.74	0.12	0	1.2	5.36	0	107	67
C216	0.33	0.06	0	0.56	2.07	0	87	62
C301	0.44	0.08	0	0.74	3.34	0	96	67
C302	0.53	0.2	0	1.9	17.38	0	92	70
C303	0.35	0.07	0	0.68	2.61	0	96	74
C304	0.35	0.07	0	0.76	4.08	0	110	86
C305	0.33	0.07	0	0.71	3.76	0	110	84
C306	0.27	0.07	0	0.65	3.61	0	89	73
C307	0.49	0.11	0	1.1	7.48	0	100	77
C308	0.78	0.26	0	2.44	22.5	0	91	59
C309	0.62	0.12	0	1.23	8.3	0	99	68
C310	0.5	0.08	0	0.83	4.38	0	99	67
C401	0.47	0.1	0	0.84	3.58	0	67	48
C402	0.43	0.13	0	0.8	2.59	0	37	27

Table 8. Statistics for copper by site (ng/m³).

Site	mean	semean	median	sd	max	min	n	n.bdl
BIBE4	0.2	0.15	0	0.61	2.41	0	17	15
C008	0.6	0.04	0	0.85	7.17	0	383	203
C012	0.39	0.04	0.28	0.52	3.84	0	167	78
C024T	0.2	0.06	0	0.61	5.03	0	91	67
C110	0.48	0.04	0	0.84	11.41	0	393	227
C111	0.49	0.04	0	0.71	5.82	0	400	213
C112	0.53	0.05	0.13	1.07	17.54	0	417	205
C113	0.31	0.04	0	0.89	14.04	0	421	287
C114	0.23	0.03	0	0.54	5.99	0	411	301
C115	0.97	0.25	0.23	2.46	22.37	0	95	30
C116	0.34	0.05	0.18	0.53	3.12	0	97	40
C117	0.18	0.03	0	0.29	1.5	0	94	48
C201	0.35	0.03	0.34	0.34	1.69	0	118	36
C202	0.27	0.03	0.2	0.33	2.08	0	117	42
C203	0.1	0.02	0	0.21	1.38	0	100	66
C204	0.47	0.14	0.27	1.36	13.26	0	97	27
C205	0.34	0.04	0.26	0.46	3.85	0	122	35
C206	0.41	0.05	0.27	0.48	2.41	0	112	34
C207	0.54	0.09	0.29	1.01	8.6	0	120	29
C208	0.48	0.13	0.32	1.34	13.61	0	109	30
C209	0.55	0.1	0.42	1.02	10.17	0	105	21
C210	0.25	0.03	0.16	0.32	1.8	0	114	46
C211	0.16	0.03	0	0.32	1.96	0	97	60
C212	0.27	0.05	0.07	0.56	4.51	0	115	57
C213	0.61	0.11	0.32	0.9	4.72	0	66	17
C214	0.38	0.05	0.27	0.49	2.21	0	80	34
C215	0.32	0.07	0.14	0.7	6.6	0	107	49
C216	0.33	0.05	0.17	0.44	2.38	0	87	36
C301	1.49	0.15	1.15	1.45	8.95	0	96	9
C302	1.07	0.43	0.24	4.09	34.99	0	92	32
C303	0.54	0.05	0.48	0.48	2.52	0	96	18
C304	0.63	0.06	0.45	0.65	3.5	0	110	23
C305	0.9	0.21	0.55	2.21	21.3	0	110	25
C306	0.22	0.04	0	0.4	2.1	0	89	51
C307	0.58	0.21	0.03	2.09	20.42	0	100	50
C308	0.61	0.06	0.55	0.56	3.44	0	91	17
C309	0.64	0.08	0.52	0.76	6.03	0	99	22
C310	1.18	0.27	0.77	2.73	26.83	0	99	18
C401	0.78	0.13	0.36	1.08	4.92	0	67	19
C402	0.44	0.11	0	0.65	2.89	0	37	19

Table 9. Statistics for iron by site (ng/m³).

Site	mean	semean	median	sd	max	min	n	n.bdl
BIBE4	126.38	16.58	134.79	68.37	252.31	25.08	17	0
C008	69.89	6.36	30.11	124.46	1102.67	0	383	2
C012	65.9	8.2	26.06	105.91	575.81	0	167	1
C024T	153.03	15.18	107.57	144.82	1067.74	3.27	91	0
C110	82.05	5.47	42.55	108.5	707.46	0.56	393	0
C111	59.25	4.55	25.4	90.95	672.67	0	400	1
C112	104.25	5.29	67.16	108.08	649.79	1.38	417	0
C113	86.29	5.48	45.08	112.45	815.05	6.17	421	0
C114	84.29	5.35	50.05	108.42	736.14	0	411	1
C115	69.97	6.18	51.36	60.23	298.78	10.39	95	0
C116	53.6	7.87	23.25	77.52	402.96	5.59	97	0
C117	70.81	7	46.84	67.83	382.05	4.44	94	0
C201	111.59	15.2	37.8	165.14	852.87	2.11	118	0
C202	104.42	14.2	34.94	153.63	875.89	7.63	117	0
C203	80.71	12.41	41.6	124.08	713.19	14.04	100	0
C204	92.86	15.98	41.92	157.36	1060.36	13.77	97	0
C205	123.79	16.28	66.74	179.81	1593.67	0.75	122	0
C206	128.97	15.63	63.3	165.46	812.56	2.48	112	0
C207	139.82	16.7	52.3	182.9	773.68	14.71	120	0
C208	123.67	17.4	40.42	181.67	788.32	0.16	109	0
C209	178.05	20.95	71.95	214.64	790.77	10.84	105	0
C210	134.57	19.73	41.82	210.62	864.98	0	114	1
C211	105.07	20.25	28.59	199.4	906.17	8.29	97	0
C212	139.75	20.19	30.66	216.49	1099.55	5.98	115	0
C213	106.2	22.18	38.86	180.23	838.8	4.05	66	0
C214	95.34	23.13	31.94	206.88	1008.06	0.88	80	0
C215	181.2	30.36	51.65	314.05	1939.36	8.59	107	0
C216	82.46	16.25	41.06	151.53	1078.9	10.73	87	0
C301	69.74	3.51	66.57	34.4	201.09	9.28	96	0
C302	57.75	5.42	47.5	52.02	362.58	0.26	92	0
C303	76.75	6.93	57.62	67.91	368.61	12.25	96	0
C304	116.12	16.07	53.58	168.51	907.22	14.57	110	0
C305	104.46	17.61	46.93	184.75	1086.81	9.98	110	0
C306	119.06	22.47	44.86	212.01	1244.95	7.22	89	0
C307	76.7	11.83	40.96	118.31	743.57	7.46	100	0
C308	58.53	8.23	37.59	78.5	597.83	7.14	91	0
C309	97.01	8.39	73.9	83.5	538.69	15.11	99	0
C310	79.65	6.99	62.66	69.54	529.69	13.36	99	0
C401	35.49	5.15	23.76	42.16	240.74	3.93	67	0
C402	21.12	3.12	19.04	19	60.7	0	37	12

Table 10. Statistics for hydrogen by site (ng/m³).

Sites	mean	semean	median	sd	max	min	n	n.bdl
BIBE4	221.17	45.44	159.73	187.36	870.06	76.44	17	0
C008	424.32	12.11	350.31	237.09	1286.43	0	383	6
C012	348.06	15.53	288.2	200.75	1049.63	0	167	4
C024T	377.43	23.22	295.4	221.54	996.1	0	91	2
C110	404.22	11.89	339.84	235.71	1394.46	0	393	3
C111	391.39	11.02	320.64	220.35	1169.45	0	400	1
C112	386.77	9.61	332.88	196.3	1269.63	0	417	1
C113	375.05	9.39	318.73	192.74	1224.93	118.88	421	0
C114	359.8	9.2	309	186.43	1355.01	0	411	2
C115	261.87	10.89	244.69	106.11	727.97	37.88	95	0
C116	262.64	13.38	227.63	131.78	656.25	76.95	97	0
C117	319.08	18.92	262.37	183.42	837.03	0	94	2
C201	449.97	25.89	369.3	281.2	1408.54	0	118	2
C202	344.85	21.13	260.34	228.56	1239.5	0	117	2
C203	377.62	21.83	301.66	218.27	1139.59	94.15	100	0
C204	388.52	20.38	345.33	200.73	817.99	30.72	97	0
C205	366.11	18.98	306.63	209.65	971.63	0	122	2
C206	436.79	24.14	375.55	255.52	1567.31	0	112	2
C207	401.23	22.46	318.47	246.05	1236.7	93.72	120	0
C208	363.41	22.98	289.79	239.96	1164.24	0	109	4
C209	364.25	19.14	317.91	196.15	987.77	0	105	1
C210	335.11	23.67	264.32	252.67	1401.34	0	114	6
C211	390.85	21.08	351.78	207.65	1008.33	97.59	97	0
C212	303.12	19.15	230.15	205.37	1102.1	0	115	1
C213	429.02	47.81	331.56	388.4	2602.79	76.28	66	0
C214	379.12	26.48	354.51	236.81	1023.46	0	80	3
C215	375.39	23.18	312.02	239.75	1229.86	0	107	2
C216	508.65	36.8	437.64	343.23	1721.71	0	87	3
C301	646.84	38.62	531.19	378.37	1932.02	163.79	96	0
C302	603.67	32.49	560.12	311.6	1595.8	0	92	1
C303	498.69	30.5	410.16	298.81	1571.44	109.65	96	0
C304	497.5	27.55	417.04	288.93	1450.54	145.33	110	0
C305	503.17	26.81	446.37	281.23	1452.58	138.71	110	0
C306	472.39	30.22	387.86	285.14	1338.15	77.12	89	0
C307	525.29	34.68	460.61	346.85	1581.41	82.81	100	0
C308	705.9	35.42	657.78	337.85	1686.69	203.8	91	0
C309	709.27	36.34	622.05	361.53	1909.23	166.37	99	0
C310	793.83	44.66	711.93	444.33	2525.73	174.34	99	0
C401	278.71	16.69	240.83	136.65	751.27	94.67	67	0
C402	494.52	52.11	417.03	316.96	1573.88	0	37	1

Table 11. Statistics for lead by site (ng/m³).

Site	mean	semean	median	sd	max	min	n	n.bdl
BIBE4	0.26	0.08	0.13	0.32	0.9	0	17	7
C008	0.76	0.03	0.75	0.56	3.13	0	383	88
C012	0.61	0.04	0.57	0.5	3.31	0	167	28
C024	0.33	0.05	0.2	0.48	3.41	0	113	41
C024T	0.43	0.05	0.32	0.49	2.19	0	91	29
C110	0.72	0.04	0.71	0.76	9.76	0	393	104
C111	0.67	0.03	0.69	0.54	3.8	0	400	99
C112	0.58	0.03	0.62	0.51	2.56	0	417	143
C113	0.4	0.04	0	0.77	6.36	0	421	270
C114	0.13	0.01	0	0.29	1.68	0	411	328
C115	0.53	0.14	0.22	1.33	12.21	0	95	30
C116	0.37	0.04	0.32	0.4	1.97	0	97	35
C117	0.51	0.04	0.47	0.38	1.56	0	94	18
C201	0.88	0.05	0.79	0.58	3.75	0	118	7
C202	0.59	0.03	0.57	0.37	1.56	0	117	15
C203	0.24	0.03	0.18	0.27	1.22	0	100	39
C204	0.58	0.05	0.51	0.48	2.22	0	97	18
C205	0.68	0.07	0.56	0.74	6.01	0	122	14
C206	0.71	0.05	0.6	0.56	3.19	0	112	15
C207	0.86	0.06	0.73	0.7	5.28	0	120	9
C208	0.72	0.05	0.67	0.52	2.12	0	109	16
C209	2.04	0.22	1.44	2.23	17.81	0	105	6
C210	0.87	0.11	0.6	1.2	9.21	0	114	17
C211	0.44	0.05	0.36	0.46	2.23	0	97	26
C212	0.67	0.06	0.53	0.61	4.28	0	115	16
C213	1.08	0.14	0.88	1.12	6.06	0	66	10
C214	0.91	0.08	0.76	0.71	2.88	0	80	7
C215	0.75	0.06	0.62	0.64	3.83	0	107	16
C216	0.57	0.07	0.45	0.65	4.06	0	87	28
C301	1.15	0.09	0.94	0.85	4.33	0	96	6
C302	1.73	0.24	1.04	2.35	14.18	0	92	9
C303	1.16	0.08	1.12	0.79	3.95	0	96	9
C304	1.31	0.1	1.07	1.04	7.94	0	110	5
C305	1.3	0.11	1.06	1.15	7.53	0	110	4
C306	0.53	0.08	0.23	0.75	4.61	0	89	39
C307	0.54	0.06	0.4	0.59	3.42	0	100	28
C308	1.21	0.08	1.19	0.79	3.54	0	91	6
C309	1.78	0.16	1.49	1.59	8.59	0	99	6
C310	1.33	0.17	1	1.73	14.98	0	99	15
C401	0.52	0.06	0.46	0.52	2.53	0	67	14
C402	0.4	0.1	0	0.6	1.99	0	37	21

Table 12. Statistics for LRNC (absorption in equivalent concentration of EC) by site (ng/m³).

Site	mean	semean	median	sd	max	min	n	n.bdl
BIBE4	1.98	0.23	1.63	0.94	4.08	0.82	17	0
C008	4.19	0.08	3.98	1.64	13.27	-0.1	383	0
C012	3.26	0.11	3.21	1.44	10.57	0.08	168	0
C024T	3.01	0.15	3	1.42	6.52	-0.23	91	0
C110	4.05	0.12	3.74	2.38	30.89	-0.53	393	0
C111	3.52	0.08	3.41	1.6	12.34	0.06	399	0
C112	5.2	0.13	4.91	2.68	33.65	-0.32	417	0
C113	3.79	0.1	3.51	2.01	13.57	-6.82	382	0
C114	5.55	0.11	5.42	2.25	14.46	-0.43	413	0
C115	3.41	0.18	3.01	1.74	9.88	0.15	95	0
C116	2.25	0.1	2.17	0.99	7.07	0.78	97	0
C117	2.78	0.11	2.8	1.09	5.76	0.42	94	0
C201	3.41	0.12	3.26	1.25	8.1	0.06	118	0
C202	2.97	0.1	2.8	1.03	5.53	1.03	117	0
C203	2.87	0.1	2.84	0.99	5.76	0.97	100	0
C204	3.09	0.11	3.02	1.11	6.52	-0.06	97	0
C205	3.28	0.14	3.17	1.57	13.79	0.38	122	0
C206	3.5	0.11	3.5	1.18	6.09	0.37	112	0
C207	3.74	0.11	3.61	1.23	7.24	1.21	120	0
C208	3.76	0.16	3.52	1.65	9.54	0.01	110	0
C209	3.83	0.16	3.76	1.64	10.4	0.87	105	0
C210	3.34	0.16	3.17	1.72	13.81	-0.02	114	0
C211	3.22	0.13	3.12	1.26	6.89	0.77	97	0
C212	2.63	0.1	2.46	1.06	5.8	0.84	114	0
C213	3.98	0.3	3.3	2.52	11.42	0.03	69	0
C214	3.47	0.16	3.52	1.42	6.67	-0.03	80	0
C215	3.21	0.13	3.18	1.32	7.25	1.03	107	0
C216	3.49	0.16	3.51	1.52	10.99	0.91	87	0
C301	5.34	0.17	5.14	1.67	12.11	2.29	96	0
C302	4.47	0.19	4.22	1.85	14.69	-0.23	92	0
C303	4.25	0.14	4.11	1.35	7.78	1.19	96	0
C304	4.83	0.15	4.53	1.57	8.66	2.03	114	0
C305	4.05	0.12	4.04	1.28	7.7	1.44	110	0
C306	3.37	0.19	3.02	1.81	13.76	0.23	89	0
C307	3.75	0.24	3.29	2.43	17.87	0.68	100	0
C308	3.7	0.12	3.66	1.19	7.56	1.56	91	0
C309	5.4	0.21	5.27	2.08	16.95	2.03	99	0
C310	6.39	0.25	6.1	2.45	21	2.2	99	0
C401	2.24	0.09	2.17	0.77	4.67	1.12	67	0
C402	3.79	0.23	3.81	1.72	7.68	-0.05	57	0

Table 13. Statistics for manganese by site (ng/m³).

Site	mean	semean	median	sd	max	min	n	n.bdl
BIBE4	3.06	0.45	2.44	1.87	7.79	0	17	1
C008	2.19	0.24	0	4.72	57.71	0	383	264
C012	2.84	0.28	2.33	3.6	26.59	0	167	64
C024T	4.49	0.39	3.82	3.77	15.62	0	91	16
C110	1.87	0.16	0	3.1	14.37	0	393	264
C111	1.7	0.17	0	3.45	31.88	0	400	286
C112	2	0.16	0	3.23	13.42	0	417	285
C113	1.91	0.16	0	3.25	15.43	0	421	290
C114	2.57	0.17	0	3.51	20.16	0	411	231
C115	1.42	0.2	0	1.94	8.54	0	95	51
C116	1.88	0.21	1.51	2.05	14.07	0	97	23
C117	2.3	0.18	2.2	1.75	8.75	0	94	17
C201	2.4	0.25	1.72	2.71	13.35	0	118	37
C202	2.52	0.23	2.18	2.49	19.9	0	117	22
C203	2.13	0.75	0	7.5	71.67	0	100	60
C204	2.49	0.2	2.11	2.01	10.58	0	97	18
C205	2.96	0.3	2.38	3.27	30.06	0	122	18
C206	3.23	0.25	2.64	2.68	13.9	0	112	17
C207	3.28	0.23	2.6	2.47	10.38	0	120	13
C208	3.09	0.27	2.43	2.84	14.78	0	109	22
C209	3.88	0.32	3.08	3.23	17.2	0	105	17
C210	2.83	0.27	2.17	2.83	12.05	0	114	27
C211	1.91	0.33	0	3.22	13.84	0	97	54
C212	3.04	0.28	2.11	3.05	17.12	0	115	16
C213	2.81	0.37	2.41	2.98	13.5	0	66	16
C214	2.32	0.25	2.01	2.24	10.79	0	80	15
C215	4.04	0.39	2.89	4.06	20.08	0	107	20
C216	1.26	0.25	0	2.29	13	0	87	49
C301	1.62	0.21	0.55	2.05	9.17	0	96	48
C302	1.27	0.19	0	1.82	9.95	0	92	49
C303	3.59	0.22	3.36	2.19	10.47	0	96	11
C304	2.22	0.26	1.76	2.74	12.5	0	110	45
C305	2.36	0.23	2.06	2.45	14.67	0	110	28
C306	1.57	0.28	0	2.63	14.79	0	89	53
C307	1.29	0.26	0	2.57	13.29	0	100	67
C308	1.5	0.45	0	4.26	38.59	0	91	58
C309	1.86	0.31	1.43	3.05	24.82	0	99	47
C310	1.66	0.22	0	2.18	11.61	0	99	52
C401	0.85	0.2	0	1.62	7.82	0	67	45
C402	1.55	0.32	0.92	1.92	7.15	0	37	18

Table 14. Statistics for mass by site (ng/m³). All are PM2.5 except CO24T is PM10.

Site	mean	semean	median	sd	max	min	n	n.bdl
BIBE4	6411.23	938.86	5194.18	3871	17807.75	1781.84	17	0
CO24T	10143.66	616.3	9227.94	5879.12	35382.23	-37.01	91	1
C110	6355.3	707.17	6389.03	3316.93	12169.56	125.14	22	0
C111	8485.57	799.61	8175.89	3834.77	18683.48	3299.17	23	0
C112	7059.08	981.25	6445.98	4602.48	21262	110.97	22	0
C113	7984.52	582.65	7677.72	2670.03	12828.81	3945.92	21	0
C114	7247.19	476.78	7565.84	2286.56	11514.09	3505.61	23	0
C115	6535.15	282.94	6116.87	2757.74	21322.56	881.33	95	0
C116	5332.57	321.45	4427.35	3165.93	16524.7	-1342.52	97	0
C117	6858.29	323.4	6559.79	3118.74	14380.32	809.19	93	0
C201	9356.58	525.86	8163.76	5712.29	27152.36	-1745.81	118	0
C202	7657.41	398.47	6093.55	4291.63	20639.42	1432.32	116	0
C203	7817.1	408	6958.33	4059.55	21529.48	1900.97	99	0
C204	8709.68	464.05	7845.7	4546.79	25794.01	614.81	96	0
C205	8570.94	465.17	7751.62	5116.83	41772.84	-90.6	121	0
C206	10063.74	522.4	8661.61	5503.88	35192.7	1837.89	111	0
C207	9306.63	438.22	7896.76	4800.49	23039.43	239.05	120	0
C208	9649.11	517.47	8059.66	5427.3	22675.95	1582.28	110	0
C209	11095.06	532.19	9884.26	5479.19	24173.43	2013.42	106	0
C210	9716.56	624.5	8104.42	6609.05	43057.94	-94.11	112	0
C211	9243.22	517.04	7850.37	5092.26	24234.17	1437.05	97	0
C212	9000.29	470.41	7410.16	5022.56	25366.37	2471	114	0
C213	14119.6	1284.28	10576.05	10745.05	63396.51	1598.84	70	0
C214	10064.83	614.61	8675.27	5497.22	23047.66	666.16	80	0
C215	11384.34	675.6	9174.94	6955.72	34431.34	-30.66	106	0
C216	10665.15	804.8	8762.97	7463.42	52811.16	2482.65	86	0
C301	11874.84	652.44	10330.94	6392.58	34424.94	1494.44	96	0
C302	11443.8	584.22	10384.1	5603.66	29198.66	-536.43	92	0
C303	10524.32	589.35	9256.36	5774.43	30338.63	1344.09	96	0
C304	11017.82	513.44	9855.66	5457.99	28927.71	3500.84	113	0
C305	11012.46	621.93	9560.38	6493.15	33526.93	3032.87	109	0
C306	11646.52	717.11	9704.48	6765.25	39578.02	2486.56	89	0
C307	11621.6	700.52	9278.95	6970.13	34566.35	2196.84	99	0
C308	13107.96	631.65	11967.75	5992.41	30179.42	3742.38	90	0
C309	14363.53	716.44	12413.56	7092.39	34635.68	4643.74	98	0
C310	14797.78	768.45	13597.26	7607.29	36545.45	2969.39	98	0
C401	5668.96	314.98	5448.66	2578.22	13539.42	1420.78	67	0
C402	8872.63	749.76	7315.56	5610.69	29423.22	63.11	56	0

Table 15. Statistics for nickel by site (ng/m³).

Site	mean	semean	median	sd	max	min	n	n.bdl
BIBE4	0.38	0.38	0	1.56	6.45	0	17	16
C008	0.12	0.1	0	2.01	39.33	0	383	374
C012	0	0	0	0.02	0.22	0	167	166
C024T	0	0	0	0.03	0.23	0	91	89
C110	0.09	0.03	0	0.63	8.04	0	393	378
C111	0.03	0.01	0	0.27	5.1	0	400	385
C112	0.14	0.08	0	1.63	22.43	0	417	409
C113	0.07	0.02	0	0.41	3.81	0	421	398
C114	0.03	0.01	0	0.2	2.46	0	411	394
C115	0	0	0	0	0	0	95	95
C116	0.02	0.01	0	0.09	0.74	0	97	88
C117	0.03	0.02	0	0.15	1.34	0	94	82
C201	0.05	0.01	0	0.15	0.87	0	118	99
C202	0.03	0.01	0	0.09	0.5	0	117	99
C203	0	0	0	0	0	0	100	100
C204	0.02	0.01	0	0.06	0.39	0	97	88
C205	0.04	0.01	0	0.15	0.81	0	122	112
C206	0.02	0.01	0	0.09	0.48	0	112	103
C207	0.05	0.02	0	0.18	1.29	0	120	102
C208	0.06	0.02	0	0.16	0.99	0	109	91
C209	0.01	0	0	0.04	0.34	0	105	101
C210	0.29	0.09	0	0.93	6.96	0	114	83
C211	0.05	0.02	0	0.16	0.85	0	97	84
C212	0.08	0.02	0	0.16	0.74	0	115	85
C213	0.17	0.04	0	0.36	1.87	0	66	48
C214	0.09	0.02	0	0.16	0.63	0	80	57
C215	0.05	0.02	0	0.16	0.94	0	107	92
C216	0.24	0.09	0	0.87	5.55	0	87	75
C301	0	0	0	0	0	0	96	96
C302	0.06	0.06	0	0.59	5.63	0	92	90
C303	0.17	0.07	0	0.71	5.01	0	96	81
C304	0.05	0.02	0	0.2	1.64	0	110	94
C305	0.07	0.02	0	0.17	1.17	0	110	84
C306	0.05	0.02	0	0.19	1.09	0	89	81
C307	0.13	0.04	0	0.36	2.63	0	100	79
C308	0.08	0.02	0	0.19	0.87	0	91	70
C309	0.03	0.03	0	0.27	2.67	0	99	98
C310	0.09	0.06	0	0.63	4.76	0	99	97
C401	0.1	0.03	0	0.25	1.05	0	67	51
C402	0.04	0.04	0	0.23	1.41	0	37	36

Table 16. Statistics for potassium by site (ng/m³).

Site	mean	semean	median	sd	max	min	n	n.bdl
BIBE4	60.04	7.49	62.73	30.87	100.61	12.75	17	0
C008	54.14	2.41	42.42	47.1	429.67	0	383	12
C012	44.34	3.14	32.62	40.55	238.46	0	167	3
C024T	99.9	8.49	81.19	81.02	610.58	0	91	1
C110	57.33	2.25	46.51	44.65	346.62	0	393	18
C111	44.55	1.65	36.28	33.08	251.13	0	400	14
C112	53.86	1.89	42.9	38.63	294.13	0	417	17
C113	56.48	2.13	44.12	43.79	310.69	0	421	21
C114	55.77	2.1	43.98	42.62	356.77	0	411	8
C115	51.42	3.68	39.38	35.83	204.31	8.9	95	0
C116	36.85	3.26	26.42	32.11	160.91	6.53	97	0
C117	52.65	3.62	42.7	35.09	162.53	9.32	94	0
C201	67.12	5.59	42.56	60.72	317.72	3.87	118	0
C202	61.13	4.93	41.98	53.35	332.89	8.29	117	0
C203	58.72	4.51	48.3	45.06	265.48	14.56	100	0
C204	60.27	5.64	39.73	55.5	380.53	10.12	97	0
C205	61.65	6.43	44.4	70.97	663.36	0	122	1
C206	70.76	5.73	49.86	60.67	328.94	5.72	112	0
C207	79.19	5.82	59.75	63.75	289.01	10.52	120	0
C208	76.79	8.23	49.83	85.9	661.07	0	109	2
C209	100.01	7.41	74.76	75.9	319.79	12.84	105	0
C210	77.66	7.18	51.78	76.71	335.26	0	114	2
C211	73.24	7.04	51.03	69.37	356.14	12.05	97	0
C212	81.08	6.58	54.66	70.6	362.23	18.3	115	0
C213	106.26	10.87	68.7	88.29	381.05	10.14	66	0
C214	75.97	8.91	50.39	79.67	409.96	0	80	1
C215	100.23	10.01	56.1	103.52	556.19	17.29	107	0
C216	71.4	7	47.9	65.28	400.26	0	87	4
C301	60.61	3.23	56.17	31.61	184.36	13.05	96	0
C302	68.16	4.05	59.98	38.8	229.18	4.56	92	0
C303	67.99	3.83	58.33	37.5	176.55	18.74	96	0
C304	77.74	6.15	59.86	64.53	372.6	12.54	110	0
C305	71.51	6.65	46.96	69.79	440.57	18.17	110	0
C306	87.74	10.37	54.94	97.86	612.25	18.09	89	0
C307	94.45	12.79	57.56	127.92	1008.43	16.54	100	0
C308	89.7	5.25	79.36	50.04	375.66	31.06	91	0
C309	105.85	5.69	90.17	56.62	301.22	31.47	99	0
C310	83.81	5.44	73.57	54.1	384.33	31.3	99	0
C401	35.1	2.53	29.61	20.72	96.31	9.17	67	0
C402	49.41	7.44	41.52	45.23	273.87	0	37	1

Table 17. Statistics for rubidium by site (ng/m³).

Site	mean	semean	median	sd	max	min	n	n.bdl
BIBE4	0.14	0.03	0.11	0.12	0.36	0	17	4
C008	0.18	0.02	0	0.3	2.42	0	383	246
C012	0.14	0.02	0	0.23	1.23	0	167	105
C024T	0.26	0.04	0.17	0.41	2.94	0	91	36
C110	0.19	0.02	0	0.4	6.21	0	393	242
C111	0.18	0.01	0	0.26	1.69	0	400	238
C112	0.17	0.01	0	0.25	1.27	0	417	253
C113	0.16	0.01	0	0.27	1.87	0	421	273
C114	0.09	0.01	0	0.19	1.42	0	411	319
C115	0.06	0.01	0	0.12	0.63	0	95	68
C116	0.04	0.01	0	0.12	0.85	0	97	85
C117	0.08	0.01	0	0.14	0.55	0	94	62
C201	0.12	0.02	0	0.24	1.14	0	118	83
C202	0.12	0.02	0	0.24	1.46	0	117	78
C203	0.07	0.02	0	0.19	1.05	0	100	80
C204	0.07	0.02	0	0.23	1.41	0	97	80
C205	0.09	0.02	0	0.25	2.1	0	122	91
C206	0.13	0.02	0	0.26	1.38	0	112	78
C207	0.15	0.03	0	0.28	1.12	0	120	82
C208	0.14	0.03	0	0.29	1.26	0	109	76
C209	0.2	0.03	0	0.32	1.11	0	105	65
C210	0.15	0.03	0	0.31	1.26	0	114	77
C211	0.12	0.03	0	0.32	1.55	0	97	76
C212	0.15	0.03	0	0.32	1.7	0	115	77
C213	0.08	0.03	0	0.24	1.12	0	66	57
C214	0.1	0.03	0	0.29	1.28	0	80	66
C215	0.22	0.05	0	0.51	3.15	0	107	77
C216	0.08	0.02	0	0.21	1.04	0	87	69
C301	0.01	0	0	0.05	0.22	0	96	87
C302	0.03	0.01	0	0.08	0.49	0	92	77
C303	0.06	0.01	0	0.13	0.65	0	96	77
C304	0.11	0.02	0	0.25	1.16	0	110	84
C305	0.1	0.03	0	0.28	1.83	0	110	88
C306	0.13	0.04	0	0.36	2.15	0	89	66
C307	0.07	0.02	0	0.19	1.13	0	100	79
C308	0.18	0.02	0.17	0.16	0.87	0	91	26
C309	0.1	0.02	0	0.18	0.77	0	99	68
C310	0.07	0.01	0	0.13	0.55	0	99	70
C401	0.01	0.01	0	0.05	0.29	0	67	63
C402	0	0	0	0	0	0	37	37

Table 18. Statistics for selenium by site (ng/m³).

Site	mean	semean	median	sd	max	min	n	n.bdl
BIBE4	0.14	0.03	0.1	0.13	0.36	0	17	4
C008	0.12	0.01	0	0.19	1.57	0	383	246
C012	0.13	0.01	0	0.19	0.98	0	167	86
C024T	0.21	0.02	0.18	0.2	0.94	0	91	22
C110	0.15	0.01	0	0.26	1.87	0	393	242
C111	0.17	0.01	0	0.24	1.44	0	400	215
C112	0.15	0.01	0	0.21	1.13	0	417	232
C113	0.22	0.01	0.21	0.23	1.33	0	421	167
C114	0.25	0.01	0.24	0.23	1.47	0	411	127
C115	0.21	0.01	0.19	0.14	0.93	0	95	5
C116	0.18	0.01	0.16	0.1	0.59	0	97	3
C117	0.23	0.02	0.2	0.15	0.88	0	94	1
C201	0.41	0.03	0.31	0.27	1.34	0	118	2
C202	0.29	0.02	0.22	0.19	0.92	0	117	1
C203	0.36	0.02	0.27	0.25	1.23	0	100	1
C204	0.33	0.02	0.3	0.17	0.78	0	97	1
C205	0.33	0.02	0.3	0.18	0.97	0	122	1
C206	0.42	0.02	0.38	0.26	1.76	0	112	4
C207	0.41	0.02	0.36	0.23	1.32	0.12	120	0
C208	0.34	0.02	0.28	0.22	1.08	0	109	3
C209	0.33	0.02	0.29	0.22	1.27	0	105	2
C210	0.33	0.02	0.25	0.23	1.23	0	114	4
C211	0.33	0.02	0.28	0.22	1.28	0	97	2
C212	0.38	0.02	0.29	0.26	1.5	0	115	1
C213	0.75	0.1	0.45	0.83	4.6	0.08	66	0
C214	0.48	0.03	0.44	0.27	1.37	0.03	80	0
C215	0.51	0.04	0.4	0.42	3.55	0.11	107	0
C216	0.5	0.03	0.41	0.32	2.15	0.09	87	0
C301	0.87	0.05	0.78	0.52	2.23	0	96	1
C302	1.02	0.06	0.94	0.6	3.01	0	92	3
C303	0.61	0.04	0.48	0.41	1.84	0.1	96	0
C304	0.67	0.04	0.51	0.45	2.14	0.17	110	0
C305	0.61	0.05	0.42	0.54	2.92	0	110	1
C306	0.57	0.05	0.46	0.48	2.62	0	89	1
C307	0.48	0.03	0.38	0.33	2.04	0	100	1
C308	0.38	0.03	0.36	0.25	1.36	0.05	91	0
C309	0.52	0.04	0.4	0.42	2.97	0.05	99	0
C310	0.82	0.07	0.63	0.68	3.11	0	99	1
C401	0.21	0.02	0.17	0.15	0.97	0	67	4
C402	0.48	0.08	0.43	0.47	1.51	0	37	12

Table 19. Statistics for silicon by site (ng/m³).

Site	mean	semean	median	sd	max	min	n	n.bdl
BIBE4	463.82	60.39	495.39	249	921.31	89.6	17	0
C008	273.36	23.54	122.76	460.71	4148.4	0	383	8
C012	250.53	30.99	102.02	400.51	2234.68	6.31	167	0
C024T	744.3	74.56	579.08	711.29	5429.56	24.63	91	0
C110	317.47	20.34	171.18	403.17	2619.57	0	393	3
C111	219.23	15.67	99.92	313.39	2226.18	0	400	2
C112	318.85	17.64	187.01	360.23	2351.03	6.57	417	0
C113	314.71	19.15	166.97	392.95	2836.06	17.97	421	0
C114	304.81	19.67	179.42	398.72	2785.27	0	411	2
C115	294.74	26.95	212.07	262.67	1371.61	36.45	95	0
C116	214.73	30.32	97.96	298.57	1547.52	23.51	97	0
C117	326.36	31.49	220.67	305.32	1480.22	20.68	94	0
C201	387.85	54.96	121.25	596.99	3137.9	16.43	118	0
C202	387.2	53.35	134.48	577.04	3341.01	26.19	117	0
C203	290.99	45.26	152.68	452.64	2725.05	44.87	100	0
C204	364.5	58.18	177.08	573.03	3916.58	63.23	97	0
C205	419.23	64	166.02	706.86	6295.5	7.64	122	0
C206	474.45	61.69	187.24	652.82	3428.59	0	112	1
C207	495.7	60.93	160.98	667.43	3052.43	45.03	120	0
C208	428.78	64.14	137.32	669.65	2929.27	0	109	3
C209	666.05	78.48	275.28	804.13	3199.91	50.29	105	0
C210	484.93	73.71	147.68	787	3466.91	0	114	1
C211	396.96	75.64	120.98	744.95	3566.67	33.5	97	0
C212	513.27	74.07	107	794.32	3825.81	15.6	115	0
C213	372.5	82.14	135	667.35	3257.19	15.49	66	0
C214	339.63	85.53	122.79	764.96	3702.16	0	80	1
C215	634.75	98.66	203.52	1020.51	4669.11	34.79	107	0
C216	280.46	58.04	141.51	541.33	3688.64	0	87	4
C301	175.35	10.73	151.04	105.08	693.82	20.86	96	0
C302	195.43	19.93	157.94	191.14	1389.44	0	92	1
C303	276.27	27.17	187.18	266.25	1452.74	45.27	96	0
C304	413.78	64.03	153.61	671.58	3782.02	23.23	110	0
C305	329.78	60.73	116.6	636.98	3770.77	37.77	110	0
C306	421.42	82.82	164.23	781.32	5288.75	20.7	89	0
C307	280.13	42.19	152.99	421.87	2917.87	32.25	100	0
C308	198.46	25.66	126.23	244.77	1832.07	31.8	91	0
C309	225.81	26.96	149.42	268.3	1810.28	34.78	99	0
C310	207.13	23.15	146.69	230.36	1642.31	31.87	99	0
C401	155.54	20.7	95.45	169.46	923.64	25.09	67	0
C402	123.94	13.55	98.97	82.4	448.88	0	37	1

Table 20. Statistics for sodium by site (ng/m³).

Site	mean	semean	median	sd	max	min	n	n.bdl
BIBE4	139	26.61	132.55	109.7	358.35	0	17	3
C008	72.27	4.23	58.84	82.74	451.68	0	383	171
C012	61.11	5.81	28.16	75.12	346.97	0	167	78
C024T	123.77	15.83	73.78	150.99	708.14	0	91	38
C110	65.58	4.23	29.01	83.89	488.52	0	393	192
C111	62.06	3.79	0	75.75	325.3	0	400	204
C112	56.81	3.77	0	76.99	324.35	0	417	241
C113	60.23	4.48	0	92	825.6	0	421	234
C114	58.28	4.07	0	82.48	549.69	0	411	223
C115	23.65	4.46	0	43.49	175.57	0	95	68
C116	43.73	4.99	30.68	49.18	211.95	0	97	34
C117	51.39	6.23	29.78	60.45	255.73	0	94	43
C201	155.3	14.56	139.91	158.2	699.57	0	118	27
C202	127.2	12.49	94.04	135.14	611.72	0	117	33
C203	75.87	10.32	21.76	103.21	523.72	0	100	48
C204	108.65	10.28	117.09	101.29	463.05	0	97	30
C205	121.57	11.56	103.25	127.72	646.77	0	122	35
C206	182.62	21.4	147.16	226.51	1687.9	0	112	25
C207	188.07	17.17	156.63	188.07	921.02	0	120	27
C208	155.64	14.66	142.92	153.08	684.65	0	109	30
C209	189.73	21.21	136.01	217.36	1048.7	0	105	27
C210	207.44	21.21	165	226.44	1255.34	0	114	19
C211	157.65	13.75	162.27	135.46	679.7	0	97	24
C212	344.99	29.79	263.01	319.46	1989.14	0	115	8
C213	864.5	91.34	603.62	742.08	3379.16	0	66	2
C214	180.48	14.81	183.44	132.45	760.98	0	80	9
C215	253.06	30.61	191.5	316.68	2010.78	0	107	20
C216	115.47	14.09	107.88	131.47	700.84	0	87	28
C301	69.62	9.17	0	89.89	299.63	0	96	51
C302	84.64	11.5	29.76	110.33	581.01	0	92	44
C303	79.37	10.33	0	101.2	414.42	0	96	49
C304	151.7	15.61	131.88	163.71	827.44	0	110	39
C305	156.47	20.19	135.22	211.76	1412.47	0	110	31
C306	321.53	32.47	268.62	306.32	1923.3	0	89	16
C307	192.97	19.37	175.3	193.69	936.92	0	100	31
C308	90.5	10.5	81.22	100.13	555.58	0	91	36
C309	107.79	15.38	80.12	153.02	1158.92	0	99	34
C310	74.58	9.09	31.03	90.45	365.65	0	99	47
C401	36.01	6.25	0	51.13	209.35	0	67	38
C402	43.25	10.05	0	61.16	243.52	0	37	20

Table 21. Statistics for sulfur by site (ng/m³).

Site	mean	semean	median	sd	max	min	n	n.bdl
BIBE4	457.93	71.43	357.13	294.51	1046.94	134.34	17	0
C008	936.16	35.82	690.97	700.92	3757.51	0	383	3
C012	883.68	48.58	641.12	627.76	2979.07	0	167	1
C024T	787.87	65.06	525.99	620.61	2524.67	0	91	3
C110	890.72	34.21	664.9	678.11	3934.25	0	393	1
C111	926.2	34.19	692.03	683.75	3506.92	89.18	400	0
C112	856.48	30.78	645.6	628.47	3536.06	3.74	417	0
C113	848.33	30.06	673.59	616.77	3829.3	95.02	421	0
C114	1011.93	35.65	793.38	722.75	4801.56	0	411	1
C115	648.76	33.87	576.09	330.09	1787.71	37.76	95	0
C116	706.67	42.21	593.17	415.7	1783.14	100.33	97	0
C117	768.36	51.18	594.03	496.16	2166.67	61.03	94	0
C201	997.77	61.66	829.3	669.83	3345.86	0	118	1
C202	840.24	55.86	635.6	604.24	3516.9	113.54	117	0
C203	917.36	62.08	722.84	620.78	3209.97	109.93	100	0
C204	1017	61.89	877.19	609.59	2527.21	8.35	97	0
C205	972.31	54.14	819.4	598.01	2654.29	5.07	122	0
C206	1119.81	68.01	930.44	719.72	4189.33	5.06	112	0
C207	976.49	60.47	750.06	662.46	3489.67	108.97	120	0
C208	956.27	68.02	730.53	710.1	3339.05	0	109	2
C209	904.58	58.35	733.02	597.92	2798.38	84.29	105	0
C210	937.39	62.53	670.94	667.65	3002	0	114	1
C211	1001.04	57.78	842.37	569.08	2571.31	172.45	97	0
C212	934.49	57.59	776.83	617.61	3455.29	193.8	115	0
C213	1426.74	134.62	1051.9	1093.62	5602.78	144.43	66	0
C214	1052.63	70.46	869.24	630.2	2632.73	8.68	80	0
C215	1031.56	72.44	784.58	749.33	3622.71	200.75	107	0
C216	1139.23	88.36	913.87	824.19	3881.2	0	87	4
C301	1337.35	96.17	1053.1	942.23	4917.44	113.63	96	0
C302	1392.99	90.23	1171.1	865.49	4565.75	0	92	1
C303	1154.25	83.86	980.55	821.62	4378.04	98.37	96	0
C304	1189.84	74.53	994.96	781.7	3765.54	179.7	110	0
C305	1149.4	68.92	942.14	722.84	3639.43	194.89	110	0
C306	1187.47	78.55	1034.5	741.07	3857.09	201.65	89	0
C307	1288.84	84.31	1035.9	843.1	3684.36	115.88	100	0
C308	1281.24	80.76	1137.88	770.41	3985.79	205.36	91	0
C309	1327.4	84.15	1105.98	837.27	4073.99	170.84	99	0
C310	1447.27	96.1	1301.6	956.2	4931.65	152.92	99	0
C401	653.71	45.51	543.77	372.5	1812.16	89.14	67	0
C402	1030.09	131.94	817.31	802.57	3878.85	0	37	1

Table 22. Statistics for strontium by site (ng/m³).

Site	mean	semean	median	sd	max	min	n	n.bdl
BIBE4	0.84	0.12	0.9	0.51	1.94	0	17	1
C008	0.3	0.04	0	0.74	7.12	0	383	227
C012	0.31	0.04	0.11	0.56	2.78	0	167	78
C024T	1.52	0.15	1.22	1.39	10.7	0	91	3
C110	0.4	0.04	0	0.74	7.26	0	393	203
C111	0.27	0.03	0	0.51	3.77	0	400	233
C112	0.42	0.03	0.23	0.66	4.04	0	417	180
C113	0.59	0.04	0.39	0.75	4.72	0	421	118
C114	0.52	0.03	0.41	0.61	4.51	0	411	79
C115	0.71	0.07	0.46	0.69	3.26	0	95	1
C116	0.43	0.05	0.29	0.51	2.77	0	97	14
C117	0.79	0.06	0.57	0.59	2.81	0.09	94	0
C201	0.86	0.1	0.44	1.05	5.23	0	118	6
C202	0.83	0.09	0.43	0.95	5.61	0	117	2
C203	0.48	0.07	0.29	0.7	4.39	0	100	5
C204	0.82	0.09	0.58	0.9	5.46	0.11	97	0
C205	0.9	0.1	0.56	1.12	10.05	0	122	2
C206	1.03	0.1	0.66	1.01	5.4	0	112	2
C207	1.14	0.11	0.62	1.17	4.92	0	120	1
C208	1.03	0.1	0.58	1.07	4.51	0	109	1
C209	1.43	0.13	0.97	1.3	5.32	0.21	105	0
C210	1.1	0.12	0.58	1.32	6.17	0	114	3
C211	0.97	0.11	0.57	1.07	4.93	0.06	97	0
C212	1.13	0.12	0.52	1.3	6.01	0	115	2
C213	1.38	0.16	0.92	1.31	5.15	0.2	66	0
C214	0.71	0.13	0.39	1.12	5.26	0	80	4
C215	1.28	0.18	0.55	1.86	11.05	0	107	1
C216	0.49	0.08	0.27	0.79	5.13	0	87	5
C301	0.46	0.03	0.41	0.25	1.14	0	96	5
C302	0.36	0.03	0.3	0.32	2.41	0	92	5
C303	0.61	0.04	0.52	0.39	2.01	0	96	2
C304	0.92	0.09	0.56	0.99	5.37	0	110	2
C305	0.77	0.12	0.4	1.28	7.52	0	110	2
C306	0.82	0.12	0.44	1.16	7.14	0.11	89	0
C307	0.74	0.08	0.46	0.78	4.21	0	100	1
C308	0.4	0.05	0.29	0.49	3.77	0	91	7
C309	0.62	0.13	0.3	1.26	10.45	0	99	4
C310	0.47	0.05	0.29	0.53	2.57	0	99	2
C401	0.41	0.04	0.34	0.36	1.6	0	67	6
C402	0.17	0.03	0.13	0.18	0.54	0	37	15

Table 23. Statistics for titanium by site (ng/m³).

Site	mean	semean	median	sd	max	min	n	n.bdl
BIBE4	15.91	2.05	16.42	8.46	30.72	3.43	17	0
C008	14.94	0.9	11.22	17.69	133.75	0	383	80
C012	11.55	1.1	6.95	14.16	91.96	0	167	22
C024T	17.38	1.5	14.13	14.31	90.98	0	91	1
C110	15.33	0.82	11.17	16.22	108.19	0	393	76
C111	12.2	0.66	9.34	13.21	93.68	0	400	92
C112	12.97	0.64	10.25	13.07	75.64	0	417	82
C113	13.61	0.7	10.61	14.31	85.67	0	421	87
C114	14.12	0.69	10.5	14.01	92.13	0	411	46
C115	7.88	0.7	5.96	6.84	40.51	0	95	3
C116	8.32	0.99	5.1	9.73	51.24	0	97	6
C117	9.74	0.79	7.54	7.67	45.24	1.25	94	0
C201	16.69	1.82	8.26	19.73	106.32	0	118	2
C202	14.54	1.69	7.09	18.3	113.67	0	117	1
C203	10.5	1.43	6.07	14.29	85.24	0	100	3
C204	14.16	1.79	8.23	17.64	121.09	2.12	97	0
C205	18.07	2.75	9.19	30.41	242.1	0	122	4
C206	18.44	1.87	10.81	19.84	105.69	0	112	2
C207	17.96	1.88	9.09	20.62	93.26	0	120	1
C208	15.45	1.93	7.91	20.18	91.6	0	109	6
C209	21.89	2.4	10.62	24.56	100.64	0	105	1
C210	18.63	2.34	8.07	24.94	109.89	0	114	5
C211	14.42	2.33	6.05	22.95	113.67	0	97	4
C212	20.13	2.33	9.4	24.93	120.08	0	115	3
C213	16.83	2.85	8.3	23.12	110.97	0	66	4
C214	14.87	2.64	7.46	23.64	119.31	0	80	2
C215	23.47	3.35	9.44	34.66	175.3	0	107	1
C216	11.45	1.91	6.21	17.85	117.16	0	87	7
C301	8.27	0.54	7.17	5.29	28.59	0	96	2
C302	9.32	0.77	7.82	7.39	48.01	0	92	3
C303	11.67	0.93	8.68	9.09	47.65	1.85	96	0
C304	15.83	2.04	7.74	21.44	115.24	0	110	3
C305	15.81	2.06	8.52	21.63	133.45	0	110	1
C306	17.03	2.66	9.13	25.07	164.59	0	89	4
C307	10.14	1.54	5.92	15.35	99.6	0	100	20
C308	10.05	0.99	7.97	9.44	65.15	0	91	4
C309	10.57	1.01	8.16	10.03	60.21	0	99	5
C310	11.4	1	8.36	9.93	60.64	0	99	1
C401	5.86	0.69	4.77	5.66	28.69	0	67	9
C402	8.1	1.25	6.07	7.6	41.62	0	37	4

Table 24. Statistics for vanadium by site (ng/m³).

Site	mean	semean	median	sd	max	min	n	n.bdl
BIBE4	1.83	0.34	1.59	1.41	5.39	0	17	3
C008	3.33	0.21	0	4.11	24.95	0	383	198
C012	2.04	0.22	1.8	2.83	19	0	167	76
C024T	1.79	0.28	0	2.69	17.55	0	91	48
C110	2.99	0.22	0	4.41	37.02	0	393	209
C111	3.05	0.22	0	4.42	34.95	0	400	219
C112	2.8	0.19	0	3.79	22.36	0	417	235
C113	2.57	0.17	0	3.56	19.05	0	421	247
C114	2.82	0.18	0	3.56	17.88	0	411	214
C115	1.35	0.2	0.91	1.95	12.89	0	95	46
C116	1.1	0.15	0.92	1.44	6.77	0	97	45
C117	0.77	0.13	0	1.22	5.96	0	94	60
C201	1.31	0.29	0	3.14	28.35	0	118	73
C202	1.23	0.17	0	1.87	9.66	0	117	62
C203	0.67	0.12	0	1.15	5.78	0	100	64
C204	0.85	0.19	0	1.88	11.08	0	97	68
C205	1	0.18	0	1.94	12.93	0	122	79
C206	0.88	0.16	0	1.72	8.51	0	112	79
C207	1.29	0.19	0	2.09	11.99	0	120	67
C208	1.13	0.16	0	1.68	7.75	0	109	63
C209	2.06	0.29	1.17	2.94	12.55	0	105	52
C210	1.62	0.21	0.88	2.23	9.32	0	114	56
C211	1.88	0.21	1.56	2.11	10.23	0	97	35
C212	1.89	0.25	1.12	2.64	13.06	0	115	54
C213	1.4	0.23	0.64	1.87	10.15	0	66	33
C214	1.39	0.24	0	2.16	12.13	0	80	42
C215	1.64	0.26	0.88	2.7	18.87	0	107	53
C216	0.93	0.17	0	1.55	9.01	0	87	51
C301	0.45	0.1	0	1.02	7.2	0	96	74
C302	0.69	0.14	0	1.31	5.83	0	92	66
C303	0.66	0.14	0	1.33	6.64	0	96	70
C304	1.03	0.15	0	1.56	6.49	0	110	67
C305	0.79	0.13	0	1.35	8.15	0	110	70
C306	1.33	0.18	1.05	1.68	8.42	0	89	43
C307	1.8	0.21	1.58	2.08	9.31	0	100	45
C308	1.3	0.18	0	1.69	8.12	0	91	47
C309	0.94	0.14	0	1.38	7.31	0	99	57
C310	0.49	0.09	0	0.91	4.36	0	99	73
C401	1.62	0.25	1.15	2.06	8.09	0	67	29
C402	0.93	0.29	0	1.75	7.18	0	37	26

Table 25. Statistics for zinc by site (ng/m³).

Site	mean	semean	median	sd	max	min	n	n.bdl
BIBE4	1.65	0.25	1.36	1.04	3.74	0.45	17	0
C008	2.94	0.14	2.32	2.71	20.39	0	383	47
C012	2.64	0.17	2.23	2.23	16.33	0	167	7
C024T	2.7	0.22	2.52	2.07	13.4	0	91	3
C110	2.92	0.14	2.37	2.86	32.81	0	393	42
C111	2.43	0.09	2.12	1.86	12.95	0	400	43
C112	2.69	0.11	2.33	2.25	27.85	0	417	39
C113	2.41	0.1	2.2	1.97	22.06	0	421	57
C114	2.63	0.09	2.33	1.81	9.52	0	411	45
C115	1.99	0.12	1.74	1.16	6.62	0.25	95	0
C116	1.65	0.12	1.36	1.18	8.91	0	97	3
C117	2.07	0.2	1.78	1.95	17.27	0	94	2
C201	3.23	0.18	2.8	1.94	7.97	0	118	1
C202	2.34	0.12	2.03	1.3	5.77	0.3	117	0
C203	5.1	2.82	1.92	28.22	283.98	0.19	100	0
C204	2.48	0.16	2.04	1.59	10.97	0.27	97	0
C205	2.82	0.41	1.96	4.51	47.99	0.13	122	0
C206	2.99	0.2	2.45	2.17	17.67	0	112	1
C207	3.01	0.19	2.51	2.12	16.21	0.53	120	0
C208	3.02	0.16	2.69	1.72	9.74	0.21	109	0
C209	3.69	0.22	3.11	2.27	13.24	0.52	105	0
C210	2.94	0.21	2.4	2.26	11.76	0	114	5
C211	2.95	0.22	2.38	2.12	10.62	0.26	97	0
C212	2.88	0.2	2.17	2.19	10.77	0	115	2
C213	5.84	0.79	3.98	6.44	32.77	0.43	66	0
C214	4.11	0.33	3.36	2.97	13.37	0	80	1
C215	3.3	0.21	2.89	2.21	10.7	0.3	107	0
C216	4.23	0.32	3.88	2.99	17.69	0.49	87	0
C301	7.76	0.36	7.18	3.51	17.99	1.47	96	0
C302	8.44	0.66	7.2	6.3	39.38	0	92	1
C303	5.09	0.35	4.18	3.39	16.9	0.97	96	0
C304	5.59	0.43	4.26	4.48	27.26	1.1	110	0
C305	5.43	0.4	4.73	4.24	26.61	0.79	110	0
C306	4.35	0.36	3.44	3.38	12.09	0	89	1
C307	5.61	0.51	3.76	5.13	19.69	0	100	1
C308	5.89	0.34	5.14	3.21	19.11	1.21	91	0
C309	8.49	0.53	8.01	5.24	45.99	1.5	99	0
C310	8.27	0.39	8	3.93	26.98	1.86	99	0
C401	1.85	0.2	1.32	1.68	11.61	0	67	3
C402	3.38	0.59	2.1	3.62	13.09	0	37	12