

Table D.1 Trace element concentrations for individual glass shards analysed by LA ICP-MS.

Note that samples with the notation C1 39-40 were collected in this study, and samples with the notation 1-.40 were reanalysed samples collected by Shane and Wright 2011)

Sample	C1 39-40				1-.40		
⁴⁵ Sc	19.8	26.2	20.3	24.6	23.1	22.7	24
⁴⁷ Ti	4600.0	6200.0	4900.0	4550.0	6490.0	6320.0	6310.0
⁵¹ V	7.9	26.9	27.8	4.7	7.1	11.6	6.4
⁵³ Cr	1.7	-0.4	-0.2	8.3	1.1	-0.9	15.0
⁵⁵ Mn	1366.0	1920.0	1370.0	1350.0	1365.0	1025.0	1105.0
⁵⁹ Co	4.6	5.1	6.8	3.2	3.9	5.7	2.0
⁶⁰ Ni	1.1	3.0	1.9	0.9	20.1	18.4	29.0
⁶³ Cu	9.7	12.5	34.2	16.1	113.0	176.0	153.0
⁶⁶ Zn	81.9	93.5	76.0	57.5	135.0	68.0	72.0
⁷¹ Ga	14.3	17.0	16.5	14.6	17.4	16.4	18.4
⁸⁵ Rb	29.6	21.9	26.9	31.7	24.9	35.2	34.5
⁸⁶ Sr	172.0	210.0	161.0	183.0	167.0	216.0	214.0
⁸⁸ Sr	177.0	258.0	191.0	202.0	207.0	243.0	239.0
⁸⁹ Y	49.0	56.6	52.4	56.5	50.5	65.5	73.8
⁹⁰ Zr	172.0	144.0	165.0	210.0	181.0	298.0	295.0
⁹¹ Zr	165.0	130.0	162.0	194.0	194.0	259.0	285.0
⁹³ Nb	2.3	1.6	1.9	1.6	1.6	1.7	2.0
⁹⁵ Mo	3.3	1.1	1.7	2.2	2.6	2.0	5.5
¹³³ Cs	1.6	1.2	1.1	1.5	1.4	1.7	1.0
¹³⁸ Ba	466.0	382.0	427.0	485.0	390.0	484.0	517.0
¹³⁹ La	12.1	10.8	12.2	13.6	10.8	16.8	16.0
¹⁴⁰ Ce	31.1	28.7	31.9	32.8	44.0	39.7	45.2
¹⁴¹ Pr	4.5	4.6	4.7	4.7	4.0	5.4	5.4
¹⁴⁶ Nd	22.6	23.6	23.6	27.0	19.1	30.2	28.8
¹⁴⁷ Sm	6.7	5.9	6.6	8.1	6.2	8.4	6.2
¹⁵¹ Eu	1.6	2.0	1.9	1.8	1.8	1.8	1.7
¹⁵³ Eu	1.9	1.8	2.1	1.5	2.0	2.2	1.3

Table D.1 continued

Sample	C1 39-40				1-.40		
¹⁵⁷ Gd	6.9	7.8	7.5	8.2	7.7	13.8	11.4
¹⁵⁹ Tb	1.0	1.5	1.4	1.4	1.3	1.4	1.7
¹⁶³ Dy	8.8	10.1	8.4	10.9	9.8	11.7	14.5
¹⁶⁵ Ho	1.9	2.0	1.9	2.6	1.9	2.4	2.9
¹⁶⁶ Er	6.2	6.6	7.0	6.7	6.4	7.4	9.3
¹⁶⁹ Tm	0.8	0.8	0.8	0.9	0.9	1.1	1.4
¹⁷² Yb	5.5	6.6	7.0	6.1	6.9	8.4	10.1
¹⁷⁵ Lu	1.0	0.9	0.9	1.1	0.9	1.2	1.7
¹⁷⁸ Hf	4.9	3.7	5.1	6.3	6.0	7.2	6.8
¹⁸¹ Ta	0.2	0.1	0.2	0.1	0.1	0.1	0.2
¹⁸² W	0.3	0.6	0.2	0.8	15.3	21.5	15.8
²⁰⁸ Pb	7.8	6.2	6.5	7.6	9.2	12.9	14.5
²³² Th	1.9	1.6	2.4	2.7	1.6	3.8	2.8
²³⁸ U	0.8	0.6	0.8	0.7	0.5	1.0	1.3

Table D.1 continued

Sample	1-40			C1 44-45			
⁴⁵ Sc	17.7	37	12.2	16.4	12.6	13.9	14.4
⁴⁷ Ti	5080.0	9680.0	2500.0	5040.0	3610.0	4050.0	4170.0
⁵¹ V	6.7	322.0	7.9	10.3	5.7	19.3	9.1
⁵³ Cr	0.3	8.5	-0.7	-1.0	6.5	1.7	-9.4
⁵⁵ Mn	982.0	1870.0	456.0	1832.0	1081.0	1270.0	1290.0
⁵⁹ Co	3.7	37.2	2.3	7.7	4.7	9.7	7.1
⁶⁰ Ni	4.0	19.0	4.1	0.2	2.4	0.9	0.1
⁶³ Cu	17.3	112.0	25.3	18.1	7.6	33.1	11.3
⁶⁶ Zn	60.1	152.0	61.7	100.0	102.5	94.0	87.0
⁷¹ Ga	12.7	19.7	11.1	16.5	18.4	18.3	18.9
⁸⁵ Rb	30.0	16.4	19.1	25.0	31.5	31.0	33.1
⁸⁶ Sr	161.0	329.0	114.0	207.0	130.2	152.0	208.0
⁸⁸ Sr	184.0	240.0	103.1	198.0	137.0	121.0	157.0
⁸⁹ Y	50.3	27.0	28.7	50.9	36.9	44.5	44.4
⁹⁰ Zr	187.0	77.6	122.0	144.6	128.0	129.0	148.0
⁹¹ Zr	173.0	60.0	136.0	139.0	112.0	136.0	158.0
⁹³ Nb	2.1	1.4	1.4	1.5	1.3	1.6	1.8
⁹⁵ Mo	2.1	1.5	2.5	3.2	3.5	2.9	2.7
¹³³ Cs	1.2	0.7	1.3	1.5	1.5	1.5	1.7
¹³⁸ Ba	434.0	275.0	413.0	415.0	407.0	423.0	470.0
¹³⁹ La	13.1	7.2	5.5	11.1	9.5	11.1	13.7
¹⁴⁰ Ce	28.6	21.0	18.3	29.0	27.3	29.2	31.7
¹⁴¹ Pr	4.6	3.3	2.4	4.7	3.6	4.3	4.6
¹⁴⁶ Nd	23.4	14.1	11.6	23.3	17.9	19.4	21.1
¹⁴⁷ Sm	6.1	4.3	3.3	6.6	4.5	5.1	6.8
¹⁵¹ Eu	1.4	1.2	0.4	2.1	1.1	1.5	1.2
¹⁵³ Eu	1.3	1.5	0.7	2.5	1.4	1.5	1.7

Table D.1 continued

Sample	1-.40			C1 44-45			
¹⁵⁷ Gd	8.4	4.4	4.1	7.9	5.3	5.7	7.4
¹⁵⁹ Tb	1.0	0.8	0.9	1.5	0.9	1.1	0.9
¹⁶³ Dy	9.6	5.1	5.6	8.6	5.7	6.5	6.8
¹⁶⁵ Ho	1.9	1.0	1.2	2.2	1.5	1.6	1.6
¹⁶⁶ Er	5.7	2.5	4.0	6.3	3.3	5.8	4.7
¹⁶⁹ Tm	0.9	0.5	0.7	0.9	0.5	0.7	0.8
¹⁷² Yb	5.5	3.7	4.7	6.4	4.1	7.0	4.8
¹⁷⁵ Lu	0.8	0.4	0.6	0.8	0.6	0.8	0.9
¹⁷⁸ Hf	4.6	1.9	3.7	4.0	3.9	4.1	3.9
¹⁸¹ Ta	0.2	0.0	0.1	0.1	0.2	0.1	0.1
¹⁸² W	1.8	0.6	1.1	0.2	0.2	0.6	0.7
²⁰⁸ Pb	7.2	5.8	7.2	7.5	7.5	7.4	8.7
²³² Th	1.5	0.9	0.9	1.6	1.3	1.7	1.8
²³⁸ U	0.5	0.4	0.6	0.8	0.8	0.9	0.8

Table D.1 continued

Sample	C1 44-45		C1 75-76				
⁴⁵ Sc	14.2	11.8	21.0	19.7	18.6	17.9	16.8
⁴⁷ Ti	3630.0	3690.0	2991.0	4130.0	4438.0	3460.0	3602.0
⁵¹ V	5.6	9.9	5.3	8.9	7.9	2.2	3.8
⁵³ Cr	3.3	1.0	0.1	-3.4	-2.5	2.4	3.5
⁵⁵ Mn	1212.0	985.0	1132.0	1319.0	1374.0	1220.0	1230.0
⁵⁹ Co	5.1	5.7	3.1	4.6	4.2	2.2	2.9
⁶⁰ Ni	-1.0	-0.6	0.9	-0.8	0.2	0.7	0.1
⁶³ Cu	9.7	8.8	16.1	34.7	12.4	15.9	13.1
⁶⁶ Zn	78.1	98.3	41.0	37.2	65.2	57.1	62.0
⁷¹ Ga	17.3	16.0	12.4	12.6	15.1	15.0	14.8
⁸⁵ Rb	30.4	32.8	20.1	28.7	32.3	34.3	31.3
⁸⁶ Sr	182.0	139.0	152.0	144.2	167.0	154.0	147.0
⁸⁸ Sr	129.0	119.0	157.0	175.0	182.0	180.3	168.4
⁸⁹ Y	47.6	42.8	63.5	71.3	50.9	60.0	50.5
⁹⁰ Zr	163.0	148.0	151.3	228.0	188.0	229.0	186.0
⁹¹ Zr	159.0	159.0	150.1	235.0	198.0	213.0	193.0
⁹³ Nb	2.1	2.1	1.2	2.2	2.3	2.4	2.0
⁹⁵ Mo	2.6	4.2	2.2	2.6	2.4	2.1	2.9
¹³³ Cs	1.8	1.7	1.5	1.3	1.6	1.6	1.4
¹³⁸ Ba	466.0	435.0	447.0	471.0	481.0	502.0	455.0
¹³⁹ La	12.3	11.3	8.0	14.2	13.8	15.8	13.0
¹⁴⁰ Ce	32.6	28.6	17.6	32.3	33.0	32.4	29.8
¹⁴¹ Pr	4.8	4.1	3.0	6.0	4.9	5.3	4.5
¹⁴⁶ Nd	22.4	19.5	17.4	27.1	23.9	27.0	22.1
¹⁴⁷ Sm	7.8	5.5	6.5	8.8	7.3	7.0	7.2
¹⁵¹ Eu	1.6	1.5	1.1	1.8	1.8	1.6	1.6
¹⁵³ Eu	1.4	1.2	1.4	1.8	1.6	1.5	1.6

Table D.1 continued

Sample	C1 44-45		C1 75-76				
¹⁵⁷ Gd	7.4	6.7	7.3	9.4	7.6	7.5	7.2
¹⁵⁹ Tb	1.1	1.0	1.4	1.6	1.5	1.5	1.4
¹⁶³ Dy	9.2	6.5	9.5	10.9	9.9	9.9	8.6
¹⁶⁵ Ho	1.7	1.7	2.4	2.4	2.1	2.2	2.0
¹⁶⁶ Er	4.9	4.9	6.9	8.2	6.5	7.1	6.0
¹⁶⁹ Tm	0.9	0.7	1.2	1.3	1.0	1.0	0.9
¹⁷² Yb	6.1	4.7	7.7	8.5	5.8	7.5	7.1
¹⁷⁵ Lu	1.0	0.8	1.2	1.3	0.8	1.1	0.9
¹⁷⁸ Hf	5.2	3.9	5.1	6.1	5.5	6.6	5.5
¹⁸¹ Ta	0.1	0.1	0.1	0.2	0.2	0.1	0.1
¹⁸² W	0.6	0.3	1.0	0.4	0.5	0.5	0.6
²⁰⁸ Pb	8.9	7.8	8.7	7.0	7.5	7.9	7.6
²³² Th	2.0	1.8	1.6	2.5	2.3	2.7	2.2
²³⁸ U	0.8	0.7	0.5	0.9	0.8	0.7	0.7

Table D.1 continued

Sample	C1 75-76				C1 80-81		
⁴⁵ Sc	19.5	17.4	61.6	23.0	27.5	20.4	21.1
⁴⁷ Ti	4520.0	3441.0	3800.0	4630.0	5620.0	4400.0	4450.0
⁵¹ V	12.3	3.1	238.0	5.2	37.7	10.3	7.6
⁵³ Cr	-1.5	-2.6	27.8	0.8	11.5	2.0	3.1
⁵⁵ Mn	1335.0	1248.0	1840.0	1400.0	2130.0	1420.0	1442.0
⁵⁹ Co	3.5	3.3	23.3	3.9	10.7	5.5	4.2
⁶⁰ Ni	2.2	1.8	18.2	-0.2	5.5	3.7	1.6
⁶³ Cu	13.8	17.2	25.9	28.5	25.8	12.6	7.5
⁶⁶ Zn	64.5	60.7	20.1	55.0	94.0	52.0	38.9
⁷¹ Ga	14.3	14.9	13.7	16.0	13.2	16.9	15.7
⁸⁵ Rb	30.4	36.3	57.2	38.3	30.1	29.7	33.4
⁸⁶ Sr	160.0	178.0	77.0	194.0	219.0	215.0	249.0
⁸⁸ Sr	184.0	186.0	115.0	228.0	192.0	217.0	227.0
⁸⁹ Y	52.3	61.4	58.0	69.0	54.8	55.0	64.8
⁹⁰ Zr	185.5	234.0	359.0	262.0	165.0	199.0	217.0
⁹¹ Zr	198.0	224.0	363.0	243.0	171.0	201.0	206.0
⁹³ Nb	1.9	2.9	3.5	1.8	2.1	1.7	2.0
⁹⁵ Mo	3.7	2.7	1.8	3.0	2.0	3.2	3.0
¹³³ Cs	1.4	1.5	1.4	1.4	1.1	1.3	1.2
¹³⁸ Ba	461.0	523.0	565.0	544.0	445.0	480.0	495.0
¹³⁹ La	13.6	14.7	17.2	18.3	12.1	12.7	14.8
¹⁴⁰ Ce	30.6	34.1	33.7	32.9	31.0	28.6	30.8
¹⁴¹ Pr	4.8	5.3	4.5	5.4	5.4	4.9	5.3
¹⁴⁶ Nd	24.6	29.0	23.4	28.9	23.9	24.6	28.5
¹⁴⁷ Sm	6.8	8.1	7.5	8.1	8.1	7.2	8.0
¹⁵¹ Eu	1.7	1.7	1.7	1.7	1.9	1.8	2.0
¹⁵³ Eu	1.7	1.8	1.3	2.2	1.9	1.5	1.8

Table D.1 continued

Sample	C1 75-76				C1 80-81		
¹⁵⁷ Gd	6.6	9.5	8.7	9.5	7.6	8.1	10.2
¹⁵⁹ Tb	1.3	1.6	1.3	1.7	1.6	1.3	1.5
¹⁶³ Dy	9.2	12.3	10.1	12.8	8.7	9.7	12.3
¹⁶⁵ Ho	2.2	2.4	2.2	2.3	2.1	2.5	2.6
¹⁶⁶ Er	6.6	7.4	5.7	6.7	6.1	5.9	7.0
¹⁶⁹ Tm	0.9	1.2	0.8	1.1	0.9	1.1	1.1
¹⁷² Yb	6.5	6.5	7.3	8.3	7.2	6.5	8.6
¹⁷⁵ Lu	1.0	1.1	1.4	1.2	0.8	1.0	1.3
¹⁷⁸ Hf	5.7	5.3	9.4	6.6	4.4	7.0	5.8
¹⁸¹ Ta	0.1	0.1	0.3	0.1	0.2	0.1	0.3
¹⁸² W	0.6	0.7	0.8	0.7	0.6	1.1	1.4
²⁰⁸ Pb	7.7	8.5	5.4	8.9	8.4	7.8	7.3
²³² Th	2.3	2.5	4.9	2.8	2.2	2.3	2.6
²³⁸ U	0.9	1.0	1.3	0.8	0.7	0.9	0.8

Table D.1 continued

Sample	C1 80-81					1-.87	
⁴⁵ Sc	20.1	21.3	16.3	13.7	17.3	16.6	13.8
⁴⁷ Ti	4900.0	4840.0	3230.0	3790.0	3570.0	2670.0	3000.0
⁵¹ V	17.0	8.9	4.5	5.0	6.3	5.4	2.8
⁵³ Cr	-1.4	-1.9	2.5	-3.9	-2.2	-0.9	1.0
⁵⁵ Mn	1510.0	1470.0	1050.0	1260.0	1170.0	1095.0	1097.0
⁵⁹ Co	8.1	4.7	2.3	3.2	2.6	3.1	3.5
⁶⁰ Ni	1.5	2.5	0.0	2.0	0.5	0.1	1.5
⁶³ Cu	42.7	11.6	8.3	5.8	5.4	14.9	12.1
⁶⁶ Zn	64.0	52.0	47.0	85.0	51.4	82.0	79.0
⁷¹ Ga	14.7	13.6	11.6	13.5	9.9	13.4	15.1
⁸⁵ Rb	31.5	30.5	28.0	32.2	23.5	18.8	33.5
⁸⁶ Sr	249.0	246.0	227.0	218.0	190.0	123.0	143.0
⁸⁸ Sr	200.0	209.0	149.0	163.0	157.0	144.0	148.7
⁸⁹ Y	56.9	63.3	42.0	41.7	38.6	43.2	41.5
⁹⁰ Zr	180.0	211.0	171.0	150.0	144.0	93.2	142.1
⁹¹ Zr	174.0	229.0	159.0	149.0	135.0	79.5	129.0
⁹³ Nb	1.9	1.9	2.5	2.6	1.4	1.2	1.7
⁹⁵ Mo	2.8	3.8	2.4	2.6	2.2	1.8	3.0
¹³³ Cs	1.3	1.1	1.4	1.3	1.3	1.4	1.3
¹³⁸ Ba	468.0	478.0	400.0	429.0	401.0	364.0	423.0
¹³⁹ La	10.7	17.4	11.5	10.0	12.0	4.8	9.5
¹⁴⁰ Ce	29.9	32.4	24.1	28.4	24.2	15.7	27.2
¹⁴¹ Pr	4.4	5.2	4.0	4.2	4.1	2.4	3.6
¹⁴⁶ Nd	21.6	26.8	17.6	20.7	18.8	11.1	17.8
¹⁴⁷ Sm	6.3	7.8	5.9	6.5	5.6	4.2	5.5
¹⁵¹ Eu	1.8	1.8	1.6	1.5	1.6	1.1	1.6
¹⁵³ Eu	1.8	1.6	1.3	1.4	1.7	1.0	1.0

Table D.1 continued

Sample	C1 80-81					1-.87	
¹⁵⁷ Gd	6.5	10.1	7.0	7.4	6.2	6.3	6.0
¹⁵⁹ Tb	1.5	1.6	1.0	1.0	1.0	0.8	1.0
¹⁶³ Dy	8.7	12.2	7.9	7.0	7.5	6.0	7.6
¹⁶⁵ Ho	2.3	2.5	1.6	1.5	1.7	1.4	1.6
¹⁶⁶ Er	4.7	7.6	4.4	4.0	5.2	4.0	4.9
¹⁶⁹ Tm	0.8	1.2	0.6	0.6	0.8	0.7	0.7
¹⁷² Yb	6.3	7.9	5.0	5.5	4.8	4.1	4.3
¹⁷⁵ Lu	0.9	1.0	0.6	0.8	0.9	0.5	0.7
¹⁷⁸ Hf	4.6	6.0	4.4	3.5	4.4	2.9	3.8
¹⁸¹ Ta	0.2	0.2	0.1	0.2	0.1	0.1	0.1
¹⁸² W	0.5	1.0	0.3	0.9	0.4	0.2	1.1
²⁰⁸ Pb	6.2	7.8	5.9	7.4	5.9	7.8	7.2
²³² Th	1.9	2.6	2.0	1.5	2.0	1.1	1.9
²³⁸ U	0.9	0.7	0.6	0.8	0.6	0.4	0.7

Table D.1 continued

Sample	1-87					
⁴⁵ Sc	17.6	17.8	12.9	17.0	15.6	18.4
⁴⁷ Ti	3210.0	3210.0	2770.0	3270.0	3920.0	2820.0
⁵¹ V	3.4	2.7	1.8	2.6	9.0	9.7
⁵³ Cr	-0.9	0.3	-0.2	-0.6	0.4	1.5
⁵⁵ Mn	1138.0	1118.0	1056.0	1190.0	1077.0	1107.0
⁵⁹ Co	2.0	2.3	2.1	2.5	3.8	3.5
⁶⁰ Ni	2.1	0.4	2.6	-0.3	0.1	0.5
⁶³ Cu	9.4	7.1	3.4	7.8	6.1	25.5
⁶⁶ Zn	48.2	40.4	77.5	45.8	60.0	90.0
⁷¹ Ga	16.0	15.1	13.2	15.3	14.5	12.0
⁸⁵ Rb	34.5	34.6	31.1	35.5	32.3	20.7
⁸⁶ Sr	139.0	161.0	137.0	192.0	155.0	161.0
⁸⁸ Sr	191.0	199.0	138.1	198.0	162.0	154.0
⁸⁹ Y	59.5	59.5	42.5	59.7	43.4	39.0
⁹⁰ Zr	210.0	217.0	150.0	228.0	152.0	89.3
⁹¹ Zr	185.0	200.0	151.0	198.0	144.0	94.0
⁹³ Nb	1.7	1.8	1.8	2.4	1.9	1.1
⁹⁵ Mo	2.9	3.5	3.1	3.3	2.5	2.6
¹³³ Cs	1.2	1.4	1.4	1.5	1.5	2.1
¹³⁸ Ba	506.0	524.0	426.0	506.0	403.0	401.0
¹³⁹ La	13.8	14.7	10.5	14.3	10.3	5.8
¹⁴⁰ Ce	31.5	35.7	28.5	31.4	28.5	16.3
¹⁴¹ Pr	4.3	4.9	3.8	4.7	3.6	2.1
¹⁴⁶ Nd	23.9	26.0	17.5	23.2	17.5	12.8
¹⁴⁷ Sm	6.7	7.8	4.5	7.2	5.2	3.4
¹⁵¹ Eu	1.7	2.1	1.1	1.9	1.3	1.3
¹⁵³ Eu	1.2	1.7	1.0	1.6	1.2	0.9

Table D.1 continued

Sample	1-87					
¹⁵⁷ Gd	7.5	8.3	5.5	7.0	6.1	4.3
¹⁵⁹ Tb	1.3	1.3	0.9	1.4	0.8	1.0
¹⁶³ Dy	9.6	10.3	6.6	9.4	7.3	7.2
¹⁶⁵ Ho	1.8	2.0	1.3	1.8	1.3	1.4
¹⁶⁶ Er	5.7	7.2	4.4	6.1	3.8	3.7
¹⁶⁹ Tm	0.9	0.9	0.5	1.1	0.6	0.6
¹⁷² Yb	5.3	6.9	4.7	5.8	4.1	5.2
¹⁷⁵ Lu	0.9	1.1	0.7	0.9	0.7	0.7
¹⁷⁸ Hf	5.4	5.4	4.1	5.2	3.7	2.6
¹⁸¹ Ta	0.1	0.2	0.1	0.2	0.1	0.1
¹⁸² W	1.2	1.5	1.7	0.9	0.5	1.1
²⁰⁸ Pb	7.9	7.4	7.3	7.0	6.1	9.4
²³² Th	2.2	2.6	1.9	2.3	1.9	1.1
²³⁸ U	0.8	0.8	0.9	0.7	0.7	0.4

Table D.1 continued

Sample	1-.97						
⁴⁵ Sc	16.9	15.3	16.2	10.0	21.5	16.8	18.4
⁴⁷ Ti	3090.0	2960.0	2980.0	1517.0	4680.0	3180.0	3290.0
⁵¹ V	5.2	5.4	3.9	5.7	26.2	5.2	5.2
⁵³ Cr	-0.7	4.5	-0.5	-2.9	-3.1	-0.8	-1.1
⁵⁵ Mn	1064.0	1038.0	1006.0	495.0	1580.0	1086.0	1209.0
⁵⁹ Co	3.1	3.9	3.2	1.4	6.6	3.7	3.5
⁶⁰ Ni	2.2	0.3	1.6	-0.8	1.9	-0.2	3.3
⁶³ Cu	14.1	17.7	10.2	11.7	3.3	13.0	14.6
⁶⁶ Zn	80.7	88.4	91.0	36.1	120.0	108.0	91.8
⁷¹ Ga	12.1	15.6	13.2	11.9	16.8	13.8	13.2
⁸⁵ Rb	17.3	18.8	19.1	44.3	14.9	20.5	17.9
⁸⁶ Sr	129.0	114.0	106.0	45.0	179.0	137.0	133.0
⁸⁸ Sr	102.0	110.0	117.0	80.0	138.0	123.0	130.0
⁸⁹ Y	37.5	37.6	38.0	43.5	32.0	38.5	38.5
⁹⁰ Zr	82.6	77.3	92.0	162.0	67.9	79.1	90.1
⁹¹ Zr	82.0	78.0	92.0	175.0	71.0	90.0	100.0
⁹³ Nb	0.7	0.7	1.1	2.6	0.7	0.8	0.8
⁹⁵ Mo	1.9	2.6	1.3	1.5	2.1	1.5	3.0
¹³³ Cs	1.3	1.3	1.6	2.5	1.3	1.7	1.8
¹³⁸ Ba	351.0	328.0	352.0	577.0	282.0	375.0	372.0
¹³⁹ La	4.2	4.7	5.2	10.6	3.8	5.8	5.1
¹⁴⁰ Ce	14.0	15.3	15.2	27.4	13.1	15.8	16.3
¹⁴¹ Pr	1.9	2.5	2.3	3.3	2.2	1.9	2.4
¹⁴⁶ Nd	12.6	11.5	13.1	15.7	9.9	12.8	10.9
¹⁴⁷ Sm	3.9	4.4	4.2	4.9	3.9	4.2	5.2
¹⁵¹ Eu	1.0	0.8	1.2	0.5	1.2	1.3	1.1
¹⁵³ Eu	1.2	1.0	1.2	0.7	1.1	0.7	1.7

Table D.1 continued

Sample	1-.97						
¹⁵⁷ Gd	3.7	5.4	6.0	4.8	4.2	5.8	5.3
¹⁵⁹ Tb	1.0	1.1	0.9	0.8	0.8	0.8	1.0
¹⁶³ Dy	6.2	6.4	7.1	6.8	6.0	5.4	8.8
¹⁶⁵ Ho	1.4	1.4	1.5	1.4	1.3	1.5	1.4
¹⁶⁶ Er	4.5	4.8	4.5	5.0	4.0	4.5	4.2
¹⁶⁹ Tm	0.6	0.5	0.8	0.9	0.5	0.7	0.7
¹⁷² Yb	4.3	4.5	4.8	5.6	5.0	4.0	4.2
¹⁷⁵ Lu	0.7	0.7	0.6	0.8	0.7	0.4	0.9
¹⁷⁸ Hf	2.9	2.6	2.6	5.5	2.4	3.4	2.7
¹⁸¹ Ta	0.1	0.1	0.0	0.2	0.1	0.0	0.1
¹⁸² W	1.2	0.9	0.5	2.2	1.2	0.0	0.9
²⁰⁸ Pb	9.9	8.1	8.2	10.8	7.9	10.5	11.6
²³² Th	0.9	1.0	1.1	3.7	0.7	1.0	1.2
²³⁸ U	0.6	0.4	0.6	1.1	0.4	0.5	0.4

Table D.1 continued

Sample	1-97			C1 114-115			
⁴⁵ Sc	16.8	16.1	16.7	19.9	17.7	18.3	22.0
⁴⁷ Ti	3170.0	2990.0	2890.0	2227.0	2296.0	2670.0	2900.0
⁵¹ V	7.8	4.6	4.8	4.2	3.8	4.2	4.7
⁵³ Cr	3.4	-3.5	0.8	0.9	4.0	4.6	-0.2
⁵⁵ Mn	1245.0	1015.0	1050.0	827.0	825.0	949.0	1039.0
⁵⁹ Co	3.5	2.9	2.4	2.5	2.7	3.1	3.0
⁶⁰ Ni	4.1	-0.8	0.7	1.1	-1.8	1.6	1.3
⁶³ Cu	20.7	6.2	12.7	14.5	16.7	18.6	20.7
⁶⁶ Zn	120.0	96.3	97.0	20.1	28.0	59.0	28.8
⁷¹ Ga	15.0	13.9	13.6	10.3	9.4	11.3	12.1
⁸⁵ Rb	18.4	19.5	20.8	16.0	13.7	17.5	17.9
⁸⁶ Sr	116.0	118.0	122.0	120.0	122.0	149.0	156.0
⁸⁸ Sr	115.0	108.4	116.0	125.6	114.0	117.0	163.0
⁸⁹ Y	39.8	35.5	37.8	49.0	48.0	43.1	66.5
⁹⁰ Zr	94.6	79.8	93.7	117.1	117.6	103.0	153.0
⁹¹ Zr	95.0	91.0	93.0	111.0	124.0	116.0	158.0
⁹³ Nb	1.1	1.1	0.6	1.1	0.7	1.1	1.1
⁹⁵ Mo	2.0	1.6	1.2	2.1	2.2	1.8	2.7
¹³³ Cs	1.8	1.5	1.7	1.3	1.1	1.5	1.6
¹³⁸ Ba	368.0	323.0	336.0	337.2	349.0	408.0	440.0
¹³⁹ La	6.0	4.8	4.3	6.2	6.0	5.9	6.7
¹⁴⁰ Ce	15.1	15.0	16.5	12.6	14.0	16.5	16.5
¹⁴¹ Pr	2.2	2.1	2.2	2.2	2.3	2.5	2.6
¹⁴⁶ Nd	12.7	10.9	13.0	12.9	13.9	14.8	18.3
¹⁴⁷ Sm	5.2	3.6	4.7	4.1	4.4	4.1	5.7
¹⁵¹ Eu	1.1	1.1	1.3	1.1	1.2	1.3	1.6
¹⁵³ Eu	1.3	1.0	1.0	1.1	1.3	1.1	1.4

Table D.1 continued

Sample	1-97			C1 114-115			
¹⁵⁷ Gd	4.7	4.6	5.2	4.6	6.5	5.9	8.7
¹⁵⁹ Tb	1.0	0.7	0.9	1.0	1.1	1.2	1.4
¹⁶³ Dy	6.5	5.9	6.0	8.7	9.6	7.0	10.4
¹⁶⁵ Ho	1.4	1.5	1.4	2.0	1.8	1.7	2.6
¹⁶⁶ Er	4.7	4.5	5.2	6.0	5.0	6.2	7.3
¹⁶⁹ Tm	0.7	0.8	0.6	0.8	1.0	1.0	1.1
¹⁷² Yb	5.4	4.8	5.1	6.0	6.1	5.5	7.6
¹⁷⁵ Lu	0.9	0.7	0.6	0.8	1.0	0.8	1.3
¹⁷⁸ Hf	3.1	3.3	2.9	3.3	3.4	3.6	5.1
¹⁸¹ Ta	0.1	0.1	0.1	0.1	0.1	0.1	0.1
¹⁸² W	1.6	0.6	0.9	0.5	0.7	0.5	0.6
²⁰⁸ Pb	19.4	9.9	10.0	7.2	7.5	8.3	9.8
²³² Th	0.9	1.1	1.1	1.2	1.2	0.9	1.5
²³⁸ U	0.7	0.4	0.4	0.4	0.4	0.5	0.5

Table D.1 continued

Sample	C1 158-159				C1 163-164		
⁴⁵ Sc	22.9	25.2	21.3	12.4	22.0	21.9	29.0
⁴⁷ Ti	3970.0	5010.0	4030.0	2059.0	2733.0	3800.0	3700.0
⁵¹ V	12.7	74.8	8.1	7.6	3.0	8.9	11.1
⁵³ Cr	3.6	1.0	1.4	2.8	0.9	3.7	-3.3
⁵⁵ Mn	1363.0	1421.0	1350.0	528.0	1131.0	1235.0	1440.0
⁵⁹ Co	3.7	11.1	3.3	2.1	2.4	3.4	5.9
⁶⁰ Ni	2.6	1.4	-0.1	0.2	0.7	2.7	1.6
⁶³ Cu	9.9	37.3	3.8	20.7	7.4	25.0	26.5
⁶⁶ Zn	56.7	86.5	74.4	31.2	70.1	51.0	61.0
⁷¹ Ga	13.4	14.1	13.3	10.0	13.4	14.3	15.6
⁸⁵ Rb	15.1	12.6	17.6	18.9	12.3	14.7	29.9
⁸⁶ Sr	237.0	205.0	251.0	125.0	151.0	232.0	142.0
⁸⁸ Sr	263.0	185.0	212.0	127.2	154.0	261.0	158.0
⁸⁹ Y	55.0	33.6	49.5	45.3	40.9	55.2	54.2
⁹⁰ Zr	157.0	90.8	137.0	147.1	85.5	147.0	185.0
⁹¹ Zr	154.0	90.0	124.0	141.0	85.0	173.0	184.0
⁹³ Nb	1.7	1.1	1.9	1.1	0.8	2.1	2.4
⁹⁵ Mo	2.0	1.9	2.8	2.7	2.9	3.2	2.3
¹³³ Cs	0.9	0.8	1.1	1.3	1.2	1.2	1.5
¹³⁸ Ba	427.0	332.0	442.0	449.0	251.0	411.0	450.0
¹³⁹ La	8.7	5.2	7.6	6.2	4.8	8.7	11.7
¹⁴⁰ Ce	19.0	14.4	20.9	17.5	13.5	17.2	28.8
¹⁴¹ Pr	2.9	2.0	3.0	2.7	2.1	3.3	4.6
¹⁴⁶ Nd	17.9	12.0	16.5	15.3	11.4	16.2	20.3
¹⁴⁷ Sm	5.5	3.5	4.9	4.4	4.0	7.8	6.1
¹⁵¹ Eu	1.8	1.2	1.3	0.9	1.1	1.8	1.9
¹⁵³ Eu	1.9	1.3	1.2	1.0	1.3	1.6	1.3

Table D.1 continued

Sample	C1 158-159				C1 163-164		
¹⁵⁷ Gd	6.6	4.9	6.3	4.9	6.3	7.4	6.2
¹⁵⁹ Tb	1.3	0.7	1.2	0.9	0.9	1.2	1.1
¹⁶³ Dy	8.3	6.4	8.8	7.4	6.4	10.2	7.6
¹⁶⁵ Ho	1.9	1.3	1.6	1.8	1.7	2.0	2.0
¹⁶⁶ Er	6.9	4.0	5.2	5.4	4.5	5.9	5.1
¹⁶⁹ Tm	0.9	0.6	1.1	0.8	0.8	0.8	0.9
¹⁷² Yb	6.3	4.6	5.6	4.6	4.9	7.0	7.5
¹⁷⁵ Lu	1.1	0.6	0.7	0.7	0.7	0.9	0.8
¹⁷⁸ Hf	4.8	3.0	3.7	4.6	2.7	6.0	5.2
¹⁸¹ Ta	0.1	0.1	0.1	0.1	0.1	0.2	0.2
¹⁸² W	0.3	0.5	0.6	0.5	0.3	1.8	0.5
²⁰⁸ Pb	7.3	5.2	6.4	6.9	4.2	5.8	6.0
²³² Th	1.0	0.6	0.9	1.1	0.6	1.0	2.1
²³⁸ U	0.4	0.3	0.4	0.5	0.3	0.4	0.8

Table D.1 continued

Sample	C1 163-164				C1 177-178		
⁴⁵ Sc	15.8	23.8	16.5	16.2	27.8	31.3	14.6
⁴⁷ Ti	2307.0	3330.0	2620.0	2430.0	7070.0	5090.0	2114.0
⁵¹ V	8.9	16.4	8.0	7.4	179.9	84.0	8.6
⁵³ Cr	5.4	3.9	-0.4	2.1	-2.8	2.8	1.6
⁵⁵ Mn	740.0	1220.0	840.0	812.0	1988.0	1661.0	598.0
⁵⁹ Co	2.4	3.5	2.5	2.4	19.7	10.0	3.2
⁶⁰ Ni	0.2	-1.5	0.5	0.9	0.9	6.3	2.4
⁶³ Cu	18.4	7.5	7.9	8.2	26.0	138.0	26.2
⁶⁶ Zn	28.9	44.1	31.5	34.8	103.3	78.0	26.8
⁷¹ Ga	10.9	17.3	9.5	8.2	19.2	14.3	10.7
⁸⁵ Rb	12.9	10.3	8.8	11.0	24.8	22.9	17.8
⁸⁶ Sr	170.0	388.0	192.0	133.0	280.0	268.0	505.0
⁸⁸ Sr	158.0	356.0	177.0	126.0	247.0	221.0	470.0
⁸⁹ Y	38.7	45.8	32.8	30.6	37.2	44.2	43.3
⁹⁰ Zr	114.2	122.0	80.4	83.7	127.2	90.3	159.0
⁹¹ Zr	122.6	146.0	88.0	85.0	125.0	79.5	158.0
⁹³ Nb	1.0	1.1	0.7	1.2	2.4	0.5	1.0
⁹⁵ Mo	2.1	3.8	2.0	2.0	0.7	1.1	2.6
¹³³ Cs	0.8	0.8	0.6	0.8	1.1	1.5	1.4
¹³⁸ Ba	314.0	381.0	263.0	268.0	390.0	536.0	463.0
¹³⁹ La	6.9	5.6	4.1	5.1	9.9	4.8	7.8
¹⁴⁰ Ce	13.2	17.0	10.9	12.6	29.6	12.3	18.1
¹⁴¹ Pr	2.0	2.6	1.7	2.0	4.3	2.3	2.9
¹⁴⁶ Nd	11.3	13.8	9.5	11.1	20.2	10.4	14.6
¹⁴⁷ Sm	2.8	4.7	3.1	3.5	6.0	4.4	5.6
¹⁵¹ Eu	1.0	1.8	0.7	0.8	1.7	1.6	0.9
¹⁵³ Eu	1.1	2.0	1.0	1.0	1.9	1.4	1.1

Table D.1 continued

Sample	C1 163-164				C1 177-178		
¹⁵⁷ Gd	5.2	5.0	4.1	3.8	6.6	7.2	5.8
¹⁵⁹ Tb	0.9	1.2	0.6	0.7	0.9	1.1	1.1
¹⁶³ Dy	6.4	7.9	4.9	5.7	7.9	8.0	7.1
¹⁶⁵ Ho	1.5	1.5	1.1	1.2	1.3	1.8	1.6
¹⁶⁶ Er	4.2	5.9	3.6	3.3	4.1	5.1	4.5
¹⁶⁹ Tm	0.7	1.0	0.5	0.6	0.6	0.7	0.7
¹⁷² Yb	4.9	6.5	3.8	4.0	4.3	4.8	5.5
¹⁷⁵ Lu	0.7	1.2	0.5	0.8	0.7	0.8	1.0
¹⁷⁸ Hf	3.8	4.7	2.6	3.2	3.1	3.3	5.2
¹⁸¹ Ta	0.1	0.0	0.1	0.0	0.2	0.1	0.1
¹⁸² W	0.4	0.4	0.3	0.5	0.4	0.7	0.4
²⁰⁸ Pb	7.4	4.9	3.7	4.7	5.3	9.9	8.6
²³² Th	0.7	0.9	0.6	0.6	2.0	0.9	1.3
²³⁸ U	0.4	0.4	0.3	0.4	0.9	0.3	0.6

Table D.1 continued

Sample	C1 177-178		C1 269-270				
⁴⁵ Sc	32.8	22.5	13.2	12.2	15.5	11.4	13.9
⁴⁷ Ti	5120.0	4500.0	2170.0	2162.0	2320.0	1874.0	2070.0
⁵¹ V	222.0	24.1	7.8	8.7	9.5	7.5	8.2
⁵³ Cr	3.0	-0.3	0.0	-2.6	-1.0	-2.0	5.3
⁵⁵ Mn	1538.0	1226.0	535.0	536.0	520.0	458.0	502.0
⁵⁹ Co	21.2	4.9	2.5	2.5	1.7	2.6	2.4
⁶⁰ Ni	6.3	1.9	1.0	1.1	0.8	0.9	2.1
⁶³ Cu	94.8	7.8	20.7	25.5	29.0	21.1	18.8
⁶⁶ Zn	75.1	47.2	38.5	38.3	22.1	37.1	26.5
⁷¹ Ga	14.4	12.2	10.7	11.8	11.5	11.0	10.9
⁸⁵ Rb	15.1	11.5	18.9	23.1	22.1	18.5	18.4
⁸⁶ Sr	203.0	182.0	93.0	120.0	125.0	100.0	103.0
⁸⁸ Sr	185.0	171.0	125.1	127.0	142.0	110.7	134.0
⁸⁹ Y	32.8	43.0	38.4	40.9	55.0	37.7	50.5
⁹⁰ Zr	96.5	92.9	140.0	140.1	187.0	114.5	158.0
⁹¹ Zr	95.8	88.4	130.0	133.0	160.0	117.0	149.0
⁹³ Nb	0.9	1.0	1.2	1.4	1.3	1.2	2.6
⁹⁵ Mo	1.2	1.4	3.5	4.0	2.5	3.0	4.4
¹³³ Cs	0.8	0.8	1.5	1.6	1.3	1.3	1.8
¹³⁸ Ba	281.0	303.0	448.0	495.0	477.0	407.0	493.0
¹³⁹ La	7.2	5.6	7.1	6.7	7.4	6.0	7.0
¹⁴⁰ Ce	17.6	13.2	17.0	18.5	18.5	17.1	18.9
¹⁴¹ Pr	2.9	2.2	2.6	2.8	3.1	2.7	3.0
¹⁴⁶ Nd	13.8	12.0	13.2	13.8	14.5	12.5	14.6
¹⁴⁷ Sm	4.8	4.2	3.4	4.5	5.6	3.8	5.2
¹⁵¹ Eu	1.3	1.3	0.7	1.1	1.0	0.6	0.6
¹⁵³ Eu	1.3	1.3	1.0	0.9	0.9	1.0	0.9

Table D.1 continued

Sample	C1 177-178		C1 269-270				
¹⁵⁷ Gd	4.7	4.6	5.2	5.6	6.2	4.3	6.5
¹⁵⁹ Tb	0.9	1.0	1.0	0.9	1.2	0.8	1.2
¹⁶³ Dy	6.0	7.6	5.4	6.6	8.3	5.2	7.3
¹⁶⁵ Ho	1.3	1.6	1.5	1.4	1.9	1.2	1.8
¹⁶⁶ Er	4.0	5.0	4.0	3.8	6.6	4.4	5.3
¹⁶⁹ Tm	0.6	0.8	0.6	0.7	0.8	0.6	0.8
¹⁷² Yb	4.2	4.7	4.7	5.4	6.8	3.6	5.6
¹⁷⁵ Lu	0.6	0.9	0.7	0.7	1.2	0.9	0.9
¹⁷⁸ Hf	2.8	3.3	3.8	4.6	5.6	4.1	5.4
¹⁸¹ Ta	0.1	0.1	0.1	0.1	0.1	0.0	0.2
¹⁸² W	0.2	0.4	0.9	1.0	2.0	0.5	0.5
²⁰⁸ Pb	5.3	5.3	7.6	8.5	8.3	7.0	8.1
²³² Th	1.4	1.0	1.0	1.3	1.3	1.2	0.9
²³⁸ U	0.4	0.3	0.6	0.6	0.5	0.6	0.5

Table D.1 continued

Sample	C1 269-270	C1 287-288				C1 288.5-289.5	
⁴⁵ Sc	15.8	13.3	15.4	20.3	23.8	22.6	12.6
⁴⁷ Ti	2350.0	2052.0	2160.0	3160.0	4220.0	4140.0	2220.0
⁵¹ V	7.9	7.6	8.6	12.5	16.3	15.7	8.3
⁵³ Cr	5.9	-2.7	1.4	0.4	-0.5	-0.6	-3.2
⁵⁵ Mn	526.0	536.0	534.0	1044.0	1439.0	1380.0	545.0
⁵⁹ Co	3.5	2.1	2.3	3.4	4.7	4.1	2.3
⁶⁰ Ni	1.5	1.4	1.1	2.7	1.9	0.2	0.7
⁶³ Cu	22.2	17.7	26.0	13.6	10.8	14.4	26.0
⁶⁶ Zn	23.8	41.4	23.2	34.5	84.1	62.7	23.9
⁷¹ Ga	11.5	11.0	10.9	10.8	14.8	13.0	11.3
⁸⁵ Rb	23.0	20.3	20.7	14.5	15.7	16.5	20.2
⁸⁶ Sr	123.0	128.0	128.0	169.0	208.0	197.0	128.6
⁸⁸ Sr	155.0	119.1	146.0	146.0	175.0	192.0	149.3
⁸⁹ Y	57.5	37.5	54.5	42.6	41.5	50.7	51.0
⁹⁰ Zr	186.0	140.0	181.0	97.2	95.7	112.8	188.0
⁹¹ Zr	185.0	139.0	166.0	89.0	87.2	107.0	180.0
⁹³ Nb	1.0	1.4	1.7	0.9	1.0	0.8	1.6
⁹⁵ Mo	4.1	3.2	2.7	1.2	3.0	2.5	3.2
¹³³ Cs	1.9	1.5	1.2	1.1	1.1	1.2	1.2
¹³⁸ Ba	539.0	448.0	464.0	328.0	385.0	388.0	512.0
¹³⁹ La	9.2	6.3	8.3	5.5	5.5	6.5	7.6
¹⁴⁰ Ce	20.1	18.0	18.0	11.8	14.5	17.1	20.4
¹⁴¹ Pr	3.5	2.7	3.0	2.2	2.4	2.5	3.2
¹⁴⁶ Nd	17.0	12.8	16.3	13.8	14.0	14.7	15.3
¹⁴⁷ Sm	6.5	4.1	5.2	4.7	4.6	4.8	5.2
¹⁵¹ Eu	1.3	0.7	0.9	1.2	1.4	1.8	1.0
¹⁵³ Eu	1.2	0.9	0.9	1.1	1.4	1.6	1.0

Table D.1 continued

Sample	C1 269-270	C1 287-288				C1 288.5-289.5	
¹⁵⁷ Gd	6.9	4.9	6.8	5.9	5.9	6.7	5.9
¹⁵⁹ Tb	1.2	0.9	1.2	0.9	1.1	1.0	1.3
¹⁶³ Dy	9.2	5.5	8.8	7.5	6.5	7.6	8.3
¹⁶⁵ Ho	1.9	1.4	1.9	1.8	1.5	1.9	1.8
¹⁶⁶ Er	6.8	4.1	5.8	5.3	5.1	5.2	6.0
¹⁶⁹ Tm	1.1	0.7	0.8	0.9	0.8	0.9	0.9
¹⁷² Yb	6.8	4.8	6.9	4.5	4.8	5.7	5.3
¹⁷⁵ Lu	1.1	0.9	1.1	0.8	0.8	1.0	1.0
¹⁷⁸ Hf	6.7	3.8	6.0	2.8	3.1	3.7	5.7
¹⁸¹ Ta	0.2	0.1	0.2	0.1	0.1	0.0	0.2
¹⁸² W	0.3	0.4	0.5	0.5	0.5	0.5	0.5
²⁰⁸ Pb	8.7	7.0	7.5	5.8	6.5	7.0	8.0
²³² Th	1.5	0.9	1.4	0.8	0.9	0.9	1.3
²³⁸ U	0.5	0.5	0.6	0.3	0.4	0.4	0.6

Table D.1 continued

Sample	C1 288.5-289.5						
⁴⁵ Sc	13.0	13.7	11.4	23.0	14.0	11.1	14.3
⁴⁷ Ti	2230.0	2514.0	2224.0	4150.0	3380.0	1779.0	2341.0
⁵¹ V	9.7	9.2	8.8	15.5	16.0	5.7	8.4
⁵³ Cr	5.1	3.7	-1.9	1.2	-2.1	0.0	-4.2
⁵⁵ Mn	563.0	592.0	506.0	1363.0	932.0	489.0	559.0
⁵⁹ Co	2.0	2.6	2.6	3.6	3.2	2.0	2.6
⁶⁰ Ni	2.4	1.2	0.1	1.1	0.1	1.5	0.5
⁶³ Cu	31.9	26.8	16.4	8.4	10.7	19.4	29.5
⁶⁶ Zn	28.5	30.5	51.8	72.7	66.3	33.2	30.6
⁷¹ Ga	12.0	11.3	11.9	14.0	14.1	11.2	12.1
⁸⁵ Rb	21.7	21.0	21.5	14.9	17.1	21.3	23.6
⁸⁶ Sr	133.0	139.0	110.0	197.0	169.0	100.0	128.0
⁸⁸ Sr	140.0	152.1	106.0	187.0	171.0	110.0	146.7
⁸⁹ Y	43.8	51.2	34.2	42.7	35.2	37.3	55.8
⁹⁰ Zr	160.0	170.7	121.0	92.2	111.0	121.0	182.1
⁹¹ Zr	164.0	180.0	130.0	89.2	117.0	126.0	181.0
⁹³ Nb	1.4	1.5	1.1	0.7	1.7	1.0	1.3
⁹⁵ Mo	3.1	3.4	2.5	2.2	2.8	3.1	3.7
¹³³ Cs	1.3	1.7	1.4	1.1	1.2	1.3	1.5
¹³⁸ Ba	504.0	540.0	421.0	359.0	425.0	439.0	529.0
¹³⁹ La	8.1	8.9	6.4	5.6	5.8	6.0	8.0
¹⁴⁰ Ce	17.5	20.1	17.7	14.5	17.5	16.9	19.6
¹⁴¹ Pr	3.0	3.1	2.4	2.4	2.7	2.5	3.0
¹⁴⁶ Nd	13.3	16.8	12.6	12.1	13.8	12.5	17.2
¹⁴⁷ Sm	4.2	5.5	4.3	5.0	3.9	3.5	4.7
¹⁵¹ Eu	0.8	1.0	0.7	1.3	1.0	0.9	0.8
¹⁵³ Eu	1.1	1.0	0.7	1.4	1.3	0.8	1.0

Table D.1 continued

Sample	C1 288.5-289.5						
¹⁵⁷ Gd	5.0	5.8	5.6	5.3	4.1	5.1	5.8
¹⁵⁹ Tb	0.9	1.2	0.9	1.1	0.9	1.0	1.0
¹⁶³ Dy	6.4	8.4	5.7	7.1	6.8	6.5	8.2
¹⁶⁵ Ho	1.3	1.7	1.2	1.7	1.6	1.5	1.8
¹⁶⁶ Er	4.6	5.5	4.2	4.8	3.9	4.4	5.3
¹⁶⁹ Tm	0.7	0.8	0.7	0.8	0.6	0.7	0.9
¹⁷² Yb	4.4	5.8	4.6	5.6	4.4	4.6	6.5
¹⁷⁵ Lu	0.6	1.1	0.7	0.9	0.7	0.7	1.0
¹⁷⁸ Hf	5.2	5.6	4.1	2.5	3.8	3.9	6.1
¹⁸¹ Ta	0.1	0.2	0.1	0.1	0.2	0.1	0.2
¹⁸² W	0.9	0.7	0.4	0.3	0.6	0.6	0.6
²⁰⁸ Pb	8.0	8.6	7.5	6.7	7.0	7.3	7.4
²³² Th	1.0	1.3	0.9	1.1	0.9	1.1	1.5
²³⁸ U	0.6	0.5	0.7	0.4	0.4	0.5	0.5

Table D.1 continued

Sample	C1 288.5- 289.5	C1 291.5-292.5					
⁴⁵ Sc	15.2	7.6	11.8	10.7	16.3	9.5	9.3
⁴⁷ Ti	2420.0	1418.0	1586.0	1830.0	3400.0	1611.0	1612.0
⁵¹ V	10.3	8.0	10.6	9.5	17.7	7.4	28.4
⁵³ Cr	-1.5	-13.0	20.0	40.0	-400.0	42.0	0.0
⁵⁵ Mn	548.0	400.0	848.0	516.0	950.0	464.0	456.0
⁵⁹ Co	3.3	4.3	6.3	4.5	8.6	3.9	7.7
⁶⁰ Ni	-0.5	3.9	-0.4	4.0	7.1	-1.7	1.3
⁶³ Cu	73.0	20.2	6.3	25.5	42.0	31.8	24.9
⁶⁶ Zn	36.2	34.3	45.4	27.4	88.1	19.9	18.4
⁷¹ Ga	9.4	9.4	11.5	13.3	23.0	11.3	9.5
⁸⁵ Rb	20.1	15.5	7.5	21.4	36.3	17.2	13.8
⁸⁶ Sr	139.0	65.0	156.0	140.0	172.0	101.0	88.0
⁸⁸ Sr	147.0	62.7	95.0	86.0	123.0	80.1	76.1
⁸⁹ Y	55.5	24.7	20.3	49.5	58.9	41.6	33.2
⁹⁰ Zr	181.0	83.5	36.6	176.0	209.0	148.0	105.0
⁹¹ Zr	176.0	92.0	38.2	174.0	204.0	148.0	99.0
⁹³ Nb	1.0	0.9	0.4	1.2	2.5	1.5	0.7
⁹⁵ Mo	3.7	2.3	0.4	3.9	8.2	2.8	2.7
¹³³ Cs	1.7	1.2	0.6	1.8	3.1	1.6	1.2
¹³⁸ Ba	527.0	320.0	164.0	508.0	733.0	432.0	304.0
¹³⁹ La	10.3	4.8	2.4	8.6	9.8	7.1	5.9
¹⁴⁰ Ce	21.3	12.5	6.9	19.3	30.6	16.2	11.9
¹⁴¹ Pr	3.4	1.8	0.9	3.3	4.5	2.8	2.0
¹⁴⁶ Nd	16.6	9.9	5.5	15.1	22.5	14.3	12.0
¹⁴⁷ Sm	6.0	2.3	2.4	5.2	7.9	4.8	3.0
¹⁵¹ Eu	1.3	0.4	0.8	1.1	1.3	0.7	0.4
¹⁵³ Eu	0.8	0.6	0.9	1.0	1.3	0.9	0.6

Table D.1 continued

Sample	C1 288.5-	C1 291.5-292.5					
	289.5						
¹⁵⁷ Gd	7.4	3.7	3.0	6.6	9.8	4.9	4.7
¹⁵⁹ Tb	1.6	0.5	0.5	1.1	1.4	0.9	0.7
¹⁶³ Dy	9.2	3.8	3.2	7.2	9.5	6.2	4.8
¹⁶⁵ Ho	2.1	0.8	0.8	1.6	2.3	1.4	1.2
¹⁶⁶ Er	6.5	2.9	2.3	4.9	7.7	4.8	3.5
¹⁶⁹ Tm	1.0	0.4	0.4	0.9	1.1	0.8	0.6
¹⁷² Yb	6.2	2.5	2.5	5.7	5.9	5.6	4.0
¹⁷⁵ Lu	1.3	0.4	0.4	0.9	1.5	0.9	0.6
¹⁷⁸ Hf	6.6	2.5	1.3	5.6	7.2	5.1	4.1
¹⁸¹ Ta	0.2	0.0	0.0	0.1	0.1	0.1	0.0
¹⁸² W	3.5	0.7	0.3	0.6	0.9	0.8	0.5
²⁰⁸ Pb	11.6	5.5	3.6	9.0	14.6	8.7	5.6
²³² Th	1.5	0.6	0.3	1.4	1.8	1.3	0.7
²³⁸ U	0.6	0.4	0.2	0.7	1.0	0.5	0.4

Table D.1 continued

Sample	C1 296-297		C1 302-303			
⁴⁵ Sc	11.1	11.6	14.7	14.7	15.4	12.8
⁴⁷ Ti	1176.0	1230.0	2230	2360.0	2213.0	2072.0
⁵¹ V	4.4	5.1	8.4	8.0	6.8	7.1
⁵³ Cr	2.4	-1.3	9	24.0	9.0	1.8
⁵⁵ Mn	340.0	340.0	504	539.0	484.0	486.0
⁵⁹ Co			2.7	2.1	4.3	1.8
⁶⁰ Ni	0.4	1.9	1.7	1.4	2.7	-0.9
⁶³ Cu	20.2	34.0	29.4	155.0	28.7	31.5
⁶⁶ Zn	14.1	42.2	22.1	44.0	13.6	25.6
⁷¹ Ga	7.7	7.8	10.7	10.4	9.8	10.9
⁸⁵ Rb	13.8	12.9	20.2	17.7	21.3	21.1
⁸⁶ Sr	76.2	81.3	134	150.0	155.0	105.0
⁸⁸ Sr			159.3	170.0	156.0	129.6
⁸⁹ Y	37.4	43.2	57.5	62.1	58.1	43.7
⁹⁰ Zr	122.8	124.0	211	209.0	196.0	144.9
⁹¹ Zr			209.0	191.0	197.0	172.0
⁹³ Nb	0.9	0.8	1.47	1.0	1.9	1.6
⁹⁵ Mo			2.7	0.0	3.2	3.0
¹³³ Cs	0.9	0.8	1.72	1.8	1.3	1.3
¹³⁸ Ba	316.0	316.0	532	515.0	476.0	477.0
¹³⁹ La	5.2	4.6	8.4	8.7	6.5	6.6
¹⁴⁰ Ce	12.3	11.8	18.2	20.2	18.5	19.0
¹⁴¹ Pr	2.1	1.8	3.29	4.0	3.2	2.6
¹⁴⁶ Nd	11.7	12.1	18.1	20.3	14.2	14.1
¹⁴⁷ Sm	3.2	3.9	7.9	4.6	6.5	4.7
¹⁵¹ Eu	0.6	0.6	1.1	0.6	1.0	0.8
¹⁵³ Eu			1.4	1.0	1.0	0.7

Table D.1 continued

Sample	C1 296-297		C1 302-303			
¹⁵⁷ Gd	4.8	4.7	8.8	4.9	7.6	5.5
¹⁵⁹ Tb	0.8	0.9	1.3	0.9	1.4	1.0
¹⁶³ Dy	5.8	6.1	7.9	5.9	10.9	6.1
¹⁶⁵ Ho	1.2	1.4	1.8	1.8	1.8	1.5
¹⁶⁶ Er	4.4	4.8	5.5	7.2	6.7	4.3
¹⁶⁹ Tm	0.6	0.6	0.7	1.2	1.1	0.7
¹⁷² Yb	3.9	4.3	6.0	6.8	7.0	5.3
¹⁷⁵ Lu	0.7	0.6	0.9	1.7	1.1	0.7
¹⁷⁸ Hf	4.3	4.1	7.4	7.2	6.4	4.2
¹⁸¹ Ta	0.1	0.1	0.2	0.3	0.1	0.2
¹⁸² W	0.4	3.7	1.0	14.0	1.6	0.7
²⁰⁸ Pb	5.4	8.0	7.0	11.6	7.6	7.3
²³² Th	0.9	1.0	1.6	1.7	1.5	1.2
²³⁸ U	0.4	0.4	0.6	0.4	0.6	0.5

Table D.1 continued

Sample	C2 10 cm clast						
⁴⁵ Sc	17.8	17.1	17.3	18.7	17.2	20.9	18.8
⁴⁷ Ti	4220.0	4260.0	4360.0	4340.0	4150.0	4580.0	4390.0
⁵¹ V	19.3	23.4	21.2	26.4	20.4	21.6	21.9
⁵³ Cr	0.3	0.6	8.4	-4.2	0.9	2.3	-2.5
⁵⁵ Mn	906.0	922.0	974.0	1008.0	953.0	1056.0	963.0
⁵⁹ Co	4.0	4.0	5.4	4.8	3.8	5.7	3.9
⁶⁰ Ni	-0.2	5.8	3.5	7.0	0.4	1.7	-1.3
⁶³ Cu	5.4	18.8	19.2	31.0	-1.1	3.2	4.2
⁶⁶ Zn	51.5	141.0	135.0	223.0	60.8	63.8	49.9
⁷¹ Ga	12.7	12.4	13.4	12.8	12.1	12.0	15.3
⁸⁵ Rb	25.8	30.3	24.1	28.2	26.5	25.2	26.9
⁸⁶ Sr	170.0	152.0	171.0	214.0	162.0	165.0	168.0
⁸⁸ Sr	165.0	154.0	172.0	190.0	143.0	194.0	195.0
⁸⁹ Y	37.9	28.9	36.1	34.6	32.0	45.8	38.0
⁹⁰ Zr	132.0	109.3	121.0	140.0	107.7	154.0	130.9
⁹¹ Zr	134.0	106.0	127.0	133.0	106.0	145.0	115.0
⁹³ Nb	1.8	1.2	1.3	2.0	1.4	1.9	1.5
⁹⁵ Mo	2.6	1.1	1.4	3.1	1.6	0.9	1.6
¹³³ Cs	1.2	1.5	1.4	1.5	1.3	1.3	1.2
¹³⁸ Ba	468.0	433.0	464.0	471.0	440.0	524.0	507.0
¹³⁹ La	10.7	8.2	8.3	9.5	7.3	10.8	9.7
¹⁴⁰ Ce	23.2	21.6	23.4	22.5	21.7	23.9	24.4
¹⁴¹ Pr	3.5	2.7	3.0	3.3	3.2	3.3	3.6
¹⁴⁶ Nd	17.2	15.5	16.3	15.0	16.0	18.4	15.8
¹⁴⁷ Sm	5.0	4.2	2.7	5.5	4.5	5.2	4.6
¹⁵¹ Eu	1.2	1.1	1.0	1.4	1.1	1.6	1.5
¹⁵³ Eu	1.2	1.3	1.2	1.2	1.4	1.3	1.4

Table D.1 continued

Sample	C2 10 cm clast						
¹⁵⁷ Gd	4.7	4.2	5.3	8.2	5.4	5.3	5.1
¹⁵⁹ Tb	0.9	0.8	0.9	0.9	0.7	1.1	1.0
¹⁶³ Dy	6.0	5.4	5.7	5.7	5.6	7.2	6.6
¹⁶⁵ Ho	1.5	1.2	1.4	1.3	1.4	1.7	1.3
¹⁶⁶ Er	4.1	3.3	4.2	4.8	3.3	5.3	3.8
¹⁶⁹ Tm	0.6	0.6	0.5	0.6	0.4	0.7	0.7
¹⁷² Yb	4.8	4.2	3.7	4.4	4.5	6.1	4.8
¹⁷⁵ Lu	0.6	0.4	0.5	0.7	0.6	0.7	0.7
¹⁷⁸ Hf	4.0	2.9	3.1	4.1	2.8	4.1	2.9
¹⁸¹ Ta	0.1	0.1	0.0	0.2	0.1	0.2	0.1
¹⁸² W	0.4	3.7	3.9	20.0	0.6	1.2	0.4
²⁰⁸ Pb	4.9	7.2	9.6	21.0	5.5	4.7	5.4
²³² Th	1.9	1.7	1.7	2.0	1.8	2.6	2.1
²³⁸ U	0.7	0.6	0.6	0.6	0.6	0.7	0.7

Table D.1 continued

Sample	C2 19 cm clast	2-.33					
⁴⁵ Sc	41.6	19.9	21.4	14.7	16.8	17.6	16.9
⁴⁷ Ti	8780.0	4160.0	4340.0	2820.0	3820.0	4090.0	3550.0
⁵¹ V	375.0	8.3	18.9	4.8	7.5	8.3	2.9
⁵³ Cr	2.8	3.7	-1.5	7.0	-0.2	1.5	3.0
⁵⁵ Mn	1940.0	1220.0	1310.0	1100.0	1220.0	1050.0	1210.0
⁵⁹ Co	33.8	3.6	7.2	2.7	3.8	3.7	2.6
⁶⁰ Ni	4.6	0.3	0.4	2.0	0.9	1.3	-0.1
⁶³ Cu	91.9	16.1	26.4	19.0	24.0	11.7	21.0
⁶⁶ Zn	123.0	92.0	97.0	123.0	91.0	61.0	109.0
⁷¹ Ga	15.5	16.3	16.0	16.2	18.1	11.5	15.5
⁸⁵ Rb	10.9	31.4	28.6	34.9	39.1	28.1	42.0
⁸⁶ Sr	179.0	137.0	183.0	161.0	167.0	124.0	140.0
⁸⁸ Sr	146.0	171.0	166.0	207.0	196.0	134.0	182.0
⁸⁹ Y	29.2	41.9	48.0	41.7	48.3	37.4	45.1
⁹⁰ Zr	63.3	147.0	150.0	160.0	180.0	122.0	174.0
⁹¹ Zr	57.4	143.0	151.0	183.0	182.0	127.0	168.0
⁹³ Nb	1.0	1.8	1.7	2.1	3.0	1.9	2.1
⁹⁵ Mo	1.9	1.6	2.6	3.5	3.9	1.9	3.2
¹³³ Cs	0.7	1.5	1.5	1.6	1.6	1.0	2.1
¹³⁸ Ba	220.0	410.0	480.0	496.0	499.0	350.0	510.0
¹³⁹ La	4.8	10.5	12.4	12.6	13.0	9.2	12.8
¹⁴⁰ Ce	12.8	28.3	32.8	31.5	31.6	22.4	34.8
¹⁴¹ Pr	2.0	3.8	4.6	4.4	4.6	3.0	4.1
¹⁴⁶ Nd	9.7	16.8	24.9	23.5	21.8	16.4	20.7
¹⁴⁷ Sm	3.8	5.3	7.5	6.4	5.2	4.7	5.4
¹⁵¹ Eu	1.1	1.3	1.6	1.6	1.6	1.1	1.3
¹⁵³ Eu	1.2	1.0	1.8	1.3	1.8	1.1	1.5

Table D.1 continued

Sample	C2 19 cm clast	2-.33					
¹⁵⁷ Gd	3.8	5.3	8.2	7.3	6.8	5.1	6.4
¹⁵⁹ Tb	0.7	0.9	1.2	1.2	1.1	0.8	1.2
¹⁶³ Dy	4.8	7.2	9.4	7.9	7.9	5.5	6.3
¹⁶⁵ Ho	1.3	1.7	2.2	1.7	1.5	1.2	1.3
¹⁶⁶ Er	3.4	5.2	6.2	5.1	5.9	3.0	5.2
¹⁶⁹ Tm	0.5	0.9	1.0	0.8	0.8	0.4	0.7
¹⁷² Yb	3.5	4.6	6.4	5.5	4.9	3.3	5.3
¹⁷⁵ Lu	0.5	1.0	0.9	0.7	0.9	0.5	0.8
¹⁷⁸ Hf	1.9	4.1	4.3	4.4	4.9	3.2	4.0
¹⁸¹ Ta	0.1	0.1	0.1	0.1	0.1	0.1	0.1
¹⁸² W	0.3	0.8	0.9	1.2	0.6	0.7	0.8
²⁰⁸ Pb	4.2	7.9	8.4	11.2	8.1	7.0	10.5
²³² Th	0.7	2.1	1.8	1.8	1.9	1.8	2.4
²³⁸ U	0.3	0.8	0.8	0.8	0.8	0.7	0.9

Table D.1 continued

Sample	2-33			C3 loose			
⁴⁵ Sc	21.1	20.3	15.5	6.5	6.3	8.1	6.3
⁴⁷ Ti	4510.0	4200.0	2690.0	1050.0	1052.0	1280.0	1003.0
⁵¹ V	32.1	7.3	3.1	59.3	63.3	52.5	65.4
⁵³ Cr	4.6	-3.6	3.6	1.6	1.2	-0.1	1.6
⁵⁵ Mn	1030.0	1420.0	1160.0	273.9	279.1	389.0	264.9
⁵⁹ Co	6.8	4.4	2.7				
⁶⁰ Ni	2.0	1.6	-0.7	1.4	1.2	0.7	1.4
⁶³ Cu	67.0	10.8	7.3	22.1	22.1	20.5	24.8
⁶⁶ Zn	75.0	40.1	40.8	15.1	14.7	23.0	14.2
⁷¹ Ga	14.5	14.4	14.0	2.8	2.9	3.4	2.9
⁸⁵ Rb	43.0	24.0	31.2	1.5	1.4	3.1	1.2
⁸⁶ Sr	162.0	159.0	137.0	38.8	38.1	43.1	36.5
⁸⁸ Sr	188.0	186.0	176.0				
⁸⁹ Y	61.0	51.6	64.0	4.0	3.9	7.4	3.3
⁹⁰ Zr	204.0	179.0	224.0	8.7	7.9	17.3	6.6
⁹¹ Zr	205.0	181.0	214.0				
⁹³ Nb	2.4	2.3	2.4	0.1	0.1	0.2	0.1
⁹⁵ Mo	3.1	3.7	2.1				
¹³³ Cs	1.8	1.4	1.4	0.1	0.1	0.2	0.1
¹³⁸ Ba	500.0	430.0	430.0	29.0	28.5	55.6	23.7
¹³⁹ La	14.1	13.5	13.8	0.8	0.7	1.5	0.6
¹⁴⁰ Ce	31.6	28.7	31.3	2.0	2.0	3.7	1.7
¹⁴¹ Pr	3.8	4.6	4.8	0.3	0.3	0.5	0.3
¹⁴⁶ Nd	23.1	21.0	24.6	1.6	1.6	2.9	1.4
¹⁴⁷ Sm	7.1	7.1	6.7	0.4	0.5	0.8	0.4
¹⁵¹ Eu	1.3	1.6	1.7	0.1	0.2	0.3	0.2
¹⁵³ Eu	1.3	1.7	1.6				

Table D.1 continued

Sample	2-.33			C3 loose			
¹⁵⁷ Gd	7.5	6.6	8.2	0.7	0.6	1.2	0.5
¹⁵⁹ Tb	1.2	1.1	1.3	0.1	0.1	0.2	0.1
¹⁶³ Dy	8.4	7.9	9.9	0.7	0.7	1.2	0.5
¹⁶⁵ Ho	1.8	2.0	2.6	0.1	0.1	0.3	0.1
¹⁶⁶ Er	4.2	6.0	6.5	0.5	0.4	0.9	0.4
¹⁶⁹ Tm	0.7	1.0	1.1	0.1	0.1	0.1	0.1
¹⁷² Yb	5.3	8.1	7.2	0.4	0.4	0.8	0.4
¹⁷⁵ Lu	0.7	1.1	1.4	0.1	0.1	0.1	0.1
¹⁷⁸ Hf	4.4	5.4	5.6	0.3	0.2	0.5	0.2
¹⁸¹ Ta	0.2	0.2	0.1	0.0	0.0	0.0	0.0
¹⁸² W	0.4	1.2	0.8	0.0	0.0	0.1	0.0
²⁰⁸ Pb	8.0	7.6	7.4	0.4	0.4	1.0	0.4
²³² Th	1.9	2.3	2.5	0.1	0.1	0.3	0.1
²³⁸ U	0.7	0.8	0.8	0.0	0.0	0.1	0.0

Table D.1 continued

Sample	C3 loose	C3 8-9				C3 10.5-11	
⁴⁵ Sc	6.2	38.7	26.6	33.5	42.1	6.7	6.6
⁴⁷ Ti	1177.0	5610.0	4240.0	4310.0	5430.0	928.0	929.0
⁵¹ V	59.7	353.0	165.1	242.9	334.0	60.0	58.1
⁵³ Cr	0.5	2.1	124.0	2.1	2.2	0.5	1.6
⁵⁵ Mn	298.0	1551.0	761.0	1229.0	1545.0	262.1	248.7
⁵⁹ Co							
⁶⁰ Ni	0.9	10.8	47.2	8.2	8.6	1.6	1.6
⁶³ Cu	19.3	178.1	59.9	98.2	178.4	31.8	31.1
⁶⁶ Zn	19.4	94.3	35.1	49.1	65.1	15.3	15.9
⁷¹ Ga	3.4	15.3	9.9	13.7	15.0	2.4	2.5
⁸⁵ Rb	2.5	6.4	2.0	5.9	6.6	1.1	1.4
⁸⁶ Sr	46.1	200.6	156.0	151.3	200.7	33.1	30.8
⁸⁸ Sr							
⁸⁹ Y	5.8	24.1	14.7	26.9	30.0	4.1	4.9
⁹⁰ Zr	18.0	51.6	44.5	58.0	63.1	8.4	10.6
⁹¹ Zr							
⁹³ Nb	0.2	0.5	1.4	0.6	0.5	0.1	0.1
⁹⁵ Mo							
¹³³ Cs	0.1	0.5	0.0	0.5	0.5	0.1	0.1
¹³⁸ Ba	48.8	174.7	40.9	160.7	178.2	28.9	37.3
¹³⁹ La	1.3	2.8	2.5	2.8	3.3	0.5	0.5
¹⁴⁰ Ce	3.9	8.1	6.6	7.4	7.9	1.3	1.6
¹⁴¹ Pr	0.5	1.3	1.2	1.3	1.5	0.2	0.3
¹⁴⁶ Nd	2.4	7.5	6.1	6.8	9.0	1.3	1.4
¹⁴⁷ Sm	0.6	2.6	2.0	2.9	2.9	0.4	0.5
¹⁵¹ Eu	0.2	0.9	0.7	0.8	0.8	0.1	0.2
¹⁵³ Eu							

Table D.1 continued

Sample	C3 loose	C3 8-9				C3 10.5-11	
¹⁵⁷ Gd	1.0	3.1	2.1	3.4	4.1	0.6	0.7
¹⁵⁹ Tb	0.1	0.6	0.4	0.6	0.7	0.1	0.1
¹⁶³ Dy	1.0	4.5	2.5	4.5	5.7	0.7	0.8
¹⁶⁵ Ho	0.2	0.9	0.5	1.1	1.0	0.2	0.2
¹⁶⁶ Er	0.6	3.0	1.6	2.9	3.5	0.5	0.6
¹⁶⁹ Tm	0.1	0.4	0.2	0.4	0.5	0.1	0.1
¹⁷² Yb	0.6	3.0	1.5	3.1	3.1	0.4	0.5
¹⁷⁵ Lu	0.1	0.4	0.2	0.6	0.6	0.1	0.1
¹⁷⁸ Hf	0.4	1.9	1.2	1.8	2.3	0.2	0.4
¹⁸¹ Ta	0.0	0.1	0.1	0.0	0.0	0.0	0.0
¹⁸² W	0.1	0.2	0.0	0.2	0.3	0.0	0.0
²⁰⁸ Pb	0.8	3.2	0.6	3.0	3.4	0.5	0.7
²³² Th	0.2	0.4	0.2	0.5	0.5	0.1	0.1
²³⁸ U	0.1	0.2	0.1	0.2	0.2	0.0	0.0

Table D.1 continued

Sample	C3 10.5-11						
⁴⁵ Sc	8.3	10.8	6.6	7.4	8.1	6.5	7.2
⁴⁷ Ti	1416.0	923.0	999.0	928.0	829.0	969.0	975.0
⁵¹ V	30.5	63.1	62.6	57.7	51.4	53.6	57.2
⁵³ Cr	1.0	0.9	-0.1	0.0	0.6	1.2	0.7
⁵⁵ Mn	398.0	345.0	274.1	278.0	314.3	266.0	279.0
⁵⁹ Co							
⁶⁰ Ni	0.1	3.3	1.2	2.1	2.8	1.1	1.1
⁶³ Cu	26.0	25.3	30.0	32.3	22.4	28.4	30.0
⁶⁶ Zn	25.0	10.9	15.7	10.6	10.9	7.6	10.1
⁷¹ Ga	3.6	2.3	2.5	2.8	2.3	2.4	2.6
⁸⁵ Rb	3.7	1.1	1.2	1.1	1.0	1.1	1.1
⁸⁶ Sr	45.1	30.3	32.4	32.8	31.5	34.6	34.4
⁸⁸ Sr							
⁸⁹ Y	12.4	4.9	4.4	4.8	4.6	5.4	5.4
⁹⁰ Zr	28.1	9.7	8.9	9.2	8.7	11.2	10.3
⁹¹ Zr							
⁹³ Nb	0.3	0.1	0.1	0.1	0.1	0.1	0.1
⁹⁵ Mo							
¹³³ Cs	0.2	0.1	0.1	0.1	0.1	0.1	0.1
¹³⁸ Ba	92.5	28.9	31.3	28.3	28.1	31.6	32.7
¹³⁹ La	1.4	0.5	0.5	0.5	0.5	0.6	0.6
¹⁴⁰ Ce	4.2	1.3	1.5	1.2	1.3	1.4	1.4
¹⁴¹ Pr	0.6	0.2	0.3	0.2	0.2	0.3	0.2
¹⁴⁶ Nd	3.4	1.3	1.4	1.4	1.2	1.5	1.4
¹⁴⁷ Sm	1.2	0.4	0.5	0.5	0.4	0.6	0.5
¹⁵¹ Eu	0.3	0.1	0.2	0.1	0.1	0.2	0.2
¹⁵³ Eu							

Table D.1 continued

Sample	C3 10.5-11						
¹⁵⁷ Gd	1.8	0.6	0.6	0.7	0.6	0.7	0.7
¹⁵⁹ Tb	0.3	0.1	0.1	0.1	0.1	0.1	0.1
¹⁶³ Dy	2.1	0.7	0.7	0.7	0.7	1.0	0.9
¹⁶⁵ Ho	0.4	0.2	0.2	0.2	0.2	0.2	0.2
¹⁶⁶ Er	1.3	0.5	0.5	0.5	0.5	0.6	0.6
¹⁶⁹ Tm	0.2	0.1	0.1	0.1	0.1	0.1	0.1
¹⁷² Yb	1.3	0.5	0.5	0.4	0.5	0.6	0.6
¹⁷⁵ Lu	0.2	0.1	0.1	0.1	0.1	0.1	0.1
¹⁷⁸ Hf	1.0	0.3	0.3	0.3	0.3	0.3	0.3
¹⁸¹ Ta	0.0	0.0	0.0	0.0	0.0	0.0	0.0
¹⁸² W	0.1	0.0	0.0	0.1	0.0	0.0	0.0
²⁰⁸ Pb	1.6	0.6	0.6	0.8	0.5	0.6	0.6
²³² Th	0.2	0.1	0.1	0.1	0.1	0.1	0.1
²³⁸ U	0.1	0.0	0.0	0.0	0.0	0.0	0.0

Table D.1 continued

Sample	C3 12-12.5						
⁴⁵ Sc	6.8	6.7	6.9	5.3	7.9	9.4	7.0
⁴⁷ Ti	947.0	924.0	931.0	811.0	985.0	1402.0	932.0
⁵¹ V	52.6	54.7	55.1	47.9	6.3	3.0	55.8
⁵³ Cr	0.5	0.3	-0.1	0.1	1.2	1.1	0.2
⁵⁵ Mn	258.5	248.5	246.1	175.6	404.0	481.0	248.9
⁵⁹ Co							
⁶⁰ Ni	1.4	1.4	1.7	1.3	0.1	0.1	1.4
⁶³ Cu	27.6	30.8	28.9	30.8	0.6	0.8	31.7
⁶⁶ Zn	14.8	14.3	16.0	12.0	26.3	32.4	13.5
⁷¹ Ga	2.6	2.7	2.6	2.6	5.1	6.5	2.5
⁸⁵ Rb	1.0	1.1	1.2	1.1	3.7	6.7	1.1
⁸⁶ Sr	34.5	32.9	32.3	32.9	73.0	82.2	33.9
⁸⁸ Sr							
⁸⁹ Y	4.5	4.6	4.5	4.2	13.9	22.1	4.7
⁹⁰ Zr	10.0	9.1	9.5	10.2	26.6	57.4	9.8
⁹¹ Zr							
⁹³ Nb	0.1	0.1	0.1	0.1	0.2	0.5	0.1
⁹⁵ Mo							
¹³³ Cs	0.1	0.1	0.1	0.1	0.3	0.5	0.1
¹³⁸ Ba	31.7	29.2	30.1	29.8	82.2	173.9	29.7
¹³⁹ La	0.5	0.5	0.5	0.5	1.6	2.8	0.6
¹⁴⁰ Ce	1.5	1.3	1.4	1.3	4.4	7.5	1.3
¹⁴¹ Pr	0.3	0.2	0.2	0.2	0.7	1.2	0.3
¹⁴⁶ Nd	1.4	1.3	1.4	1.3	4.3	6.4	1.4
¹⁴⁷ Sm	0.4	0.5	0.5	0.4	1.2	2.0	0.5
¹⁵¹ Eu	0.2	0.1	0.1	0.1	0.4	0.7	0.2
¹⁵³ Eu							

Table D.1 continued

Sample	C3 12-12.5						
¹⁵⁷ Gd	0.6	0.6	0.6	0.6	1.9	2.9	0.6
¹⁵⁹ Tb	0.1	0.1	0.1	0.1	0.3	0.5	0.1
¹⁶³ Dy	0.8	0.7	0.8	0.7	2.4	3.7	0.8
¹⁶⁵ Ho	0.2	0.2	0.2	0.2	0.4	0.7	0.2
¹⁶⁶ Er	0.5	0.6	0.5	0.5	1.4	2.5	0.5
¹⁶⁹ Tm	0.1	0.1	0.1	0.1	0.2	0.3	0.1
¹⁷² Yb	0.5	0.5	0.5	0.4	1.3	2.5	0.5
¹⁷⁵ Lu	0.1	0.1	0.1	0.1	0.3	0.4	0.1
¹⁷⁸ Hf	0.3	0.3	0.4	0.3	0.8	1.9	0.3
¹⁸¹ Ta	0.0	0.0	0.0	0.0	0.0	0.0	0.0
¹⁸² W	0.0	0.0	0.0	0.0	0.1	0.1	0.0
²⁰⁸ Pb	0.6	0.5	0.5	0.5	1.3	2.7	0.5
²³² Th	0.1	0.1	0.1	0.1	0.2	0.4	0.1
²³⁸ U	0.0	0.0	0.0	0.0	0.1	0.2	0.0

Table D.1 continued

Sample	C3 12-12.5	3-.15					
⁴⁵ Sc	8.1	23.4	32.0	19.2	38.6	39.0	47.1
⁴⁷ Ti	948.0	4100.0	4900.0	3350.0	5850.0	5880.0	6860.0
⁵¹ V	24.0	231.0	460.0	30.3	383.0	416.0	390.0
⁵³ Cr	0.5	0.2	0.3	-2.5	-0.2	3.2	3.4
⁵⁵ Mn	319.0	1780.0	1710.0	945.0	1720.0	1710.0	1816.0
⁵⁹ Co		25.1	38.0	5.1	40.4	41.3	35.1
⁶⁰ Ni	1.1	2.3	8.9	1.0	10.6	10.2	7.6
⁶³ Cu	16.5	73.0	166.0	10.8	162.0	174.0	149.4
⁶⁶ Zn	9.7	127.0	145.0	92.0	111.0	118.0	63.3
⁷¹ Ga	3.9	12.5	15.6	13.7	14.8	17.3	16.7
⁸⁵ Rb	2.8	8.5	8.1	15.7	6.8	7.8	8.3
⁸⁶ Sr	53.4	143.0	169.0	166.0	182.0	203.0	231.0
⁸⁸ Sr		250.0	200.0	169.0	109.0	185.0	222.0
⁸⁹ Y	13.5	39.0	23.5	37.1	19.6	23.4	33.0
⁹⁰ Zr	26.3	100.0	59.0	100.0	45.1	50.9	70.7
⁹¹ Zr		104.0	61.0	99.0	43.0	53.2	64.7
⁹³ Nb	0.1	1.0	0.7	1.0	0.5	0.6	0.8
⁹⁵ Mo		2.0	1.4	2.7	1.3	2.0	2.1
¹³³ Cs	0.2	0.6	0.6	0.9	0.6	0.6	0.6
¹³⁸ Ba	67.7	259.0	226.0	352.0	209.0	216.0	239.0
¹³⁹ La	1.5	3.6	4.1	5.0	3.2	3.0	4.5
¹⁴⁰ Ce	3.3	11.5	10.3	16.3	8.4	9.6	10.4
¹⁴¹ Pr	0.6	1.4	1.4	2.2	1.5	1.4	1.7
¹⁴⁶ Nd	3.6	6.5	7.5	12.2	6.4	7.7	10.9
¹⁴⁷ Sm	1.3	2.0	3.8	4.1	2.4	2.4	3.3
¹⁵¹ Eu	0.3	1.1	0.9	1.1	1.0	0.9	1.2
¹⁵³ Eu		1.6	1.5	1.2	0.9	0.9	1.2

Table D.1 continued

Sample	C3 12-12.5	3-.15					
¹⁵⁷ Gd	1.5	3.5	3.4	5.7	3.0	2.8	4.9
¹⁵⁹ Tb	0.3	0.6	0.4	1.0	0.5	0.6	1.0
¹⁶³ Dy	2.4	5.6	3.9	5.7	3.7	4.2	5.8
¹⁶⁵ Ho	0.5	1.4	0.7	1.5	0.7	0.8	1.2
¹⁶⁶ Er	1.5	3.2	2.3	4.1	2.3	2.7	3.9
¹⁶⁹ Tm	0.2	0.4	0.3	0.7	0.3	0.3	0.5
¹⁷² Yb	1.4	3.1	1.9	4.7	2.4	2.5	4.1
¹⁷⁵ Lu	0.3	0.5	0.3	0.6	0.3	0.4	0.7
¹⁷⁸ Hf	0.9	3.6	1.5	2.9	1.2	1.2	2.1
¹⁸¹ Ta	0.0	0.1	0.0	0.1	0.0	0.0	0.0
¹⁸² W	0.1	0.2	0.3	0.6	0.3	0.2	0.4
²⁰⁸ Pb	1.1	6.1	3.6	6.6	3.1	3.4	3.7
²³² Th	0.2	0.5	0.3	0.6	0.3	0.4	0.5
²³⁸ U	0.1	0.4	0.3	0.4	0.2	0.3	0.3

Table D.1 continued

Sample	3-.15					C3 24.5-25.5	
⁴⁵ Sc	37.8	43.0	39.1	37.6	37.8	16.2	14.3
⁴⁷ Ti	5770.0	5950.0	5030.0	6670.0	5650.0	4130.0	3300.0
⁵¹ V	392.0	365.0	342.0	197.0	319.0	5.8	2.4
⁵³ Cr	-1.2	-1.2	0.9	4.7	-1.0	2.3	-0.9
⁵⁵ Mn	1670.0	1790.0	1370.0	2310.0	1580.0	1180.0	1111.0
⁵⁹ Co	37.7	37.5	33.3	27.0	32.0	3.2	2.4
⁶⁰ Ni	9.9	9.1	7.5	2.8	6.8	0.3	0.9
⁶³ Cu	142.0	151.0	125.0	110.0	140.0	11.7	11.9
⁶⁶ Zn	109.0	89.5	126.0	155.0	85.0	74.1	79.0
⁷¹ Ga	14.1	17.0	16.2	16.3	13.5	14.0	13.5
⁸⁵ Rb	7.7	8.0	6.4	10.1	7.0	29.5	34.0
⁸⁶ Sr	175.0	218.0	193.0	222.0	192.0	166.0	143.0
⁸⁸ Sr	149.0	207.0	112.0	250.0	187.0	157.0	145.2
⁸⁹ Y	20.7	27.4	18.8	34.0	21.0	40.8	42.8
⁹⁰ Zr	45.5	58.7	42.0	75.0	47.6	140.4	149.2
⁹¹ Zr	48.6	66.5	42.0	80.0	51.3	132.0	143.0
⁹³ Nb	0.4	0.6	0.5	0.8	0.7	1.9	1.9
⁹⁵ Mo	1.3	1.8	1.1	1.8	1.2	1.9	2.4
¹³³ Cs	0.5	0.6	0.4	0.8	0.5	1.4	1.3
¹³⁸ Ba	220.0	229.0	148.0	263.0	213.0	426.0	448.0
¹³⁹ La	3.6	3.4	2.7	4.5	3.5	10.2	12.0
¹⁴⁰ Ce	9.2	9.0	8.0	11.4	10.1	27.2	30.2
¹⁴¹ Pr	1.4	1.6	1.2	1.7	1.6	4.0	4.1
¹⁴⁶ Nd	7.7	9.8	7.8	10.2	9.0	20.2	22.2
¹⁴⁷ Sm	2.6	2.7	1.7	1.9	3.0	5.9	6.3
¹⁵¹ Eu	0.8	1.0	0.9	1.1	0.9	1.6	1.5
¹⁵³ Eu	1.0	1.1	1.0	1.1	1.0	1.5	1.3

Table D.1 continued

Sample	3-.15					C3 24.5-25.5	
¹⁵⁷ Gd	3.2	3.7	2.9	3.8	3.6	6.3	6.1
¹⁵⁹ Tb	0.5	0.7	0.5	0.8	0.6	1.0	1.0
¹⁶³ Dy	3.4	5.0	3.3	6.0	4.0	7.0	6.5
¹⁶⁵ Ho	0.8	1.0	0.8	1.1	0.9	1.7	1.6
¹⁶⁶ Er	2.4	3.0	1.6	3.8	2.2	4.5	4.9
¹⁶⁹ Tm	0.3	0.5	0.3	0.5	0.4	0.7	0.7
¹⁷² Yb	2.4	3.4	2.3	4.2	2.4	4.9	5.0
¹⁷⁵ Lu	0.3	0.5	0.3	0.7	0.3	0.7	1.0
¹⁷⁸ Hf	1.1	1.9	1.3	2.3	1.5	3.9	4.3
¹⁸¹ Ta	0.0	0.0	0.0	0.1	0.0	0.2	0.1
¹⁸² W	0.2	0.4	0.5	4.6	0.3	0.4	0.5
²⁰⁸ Pb	3.8	4.2	3.8	13.5	3.7	6.6	8.4
²³² Th	0.3	0.5	0.3	0.5	0.5	1.7	2.2
²³⁸ U	0.3	0.2	0.2	0.3	0.3	0.8	0.9

Table D.1 continued

Sample	C3 24.5-25.5					C3 27.5-28	
⁴⁵ Sc	17.3	16.9	14.4	18.7	12.9	21.9	23.7
⁴⁷ Ti	4420.0	3520.0	3355.0	4140.0	3450.0	4250.0	4760.0
⁵¹ V	14.9	2.7	6.6	7.0	6.4	6.6	10.4
⁵³ Cr	4.1	0.6	2.7	15.0	-1.7	10.2	13.8
⁵⁵ Mn	1086.0	1155.0	904.0	1250.0	887.0	1217.0	1298.0
⁵⁹ Co	5.2	1.8	3.1	2.1	3.5	4.2	4.7
⁶⁰ Ni	-0.7	-0.1	1.3	-3.8	1.3	1.4	-1.2
⁶³ Cu	15.5	9.1	10.2	32.0	23.2	12.9	9.0
⁶⁶ Zn	67.2	58.7	44.5	32.3	82.3	34.4	29.9
⁷¹ Ga	14.0	15.4	11.4	10.1	13.2	14.1	14.0
⁸⁵ Rb	28.0	33.3	24.2	30.4	30.1	34.9	32.8
⁸⁶ Sr	126.0	206.0	144.0	270.0	106.0	169.0	212.0
⁸⁸ Sr	151.7	225.0	151.0	350.0	114.8	214.0	223.0
⁸⁹ Y	51.7	60.7	47.2	56.0	38.4	71.0	73.3
⁹⁰ Zr	164.0	206.0	150.0	191.0	133.6	239.0	229.0
⁹¹ Zr	167.0	194.0	149.0	180.0	136.0	244.0	237.0
⁹³ Nb	2.8	2.3	1.5	0.9	1.9	2.5	1.9
⁹⁵ Mo	3.0	3.4	2.5	4.9	2.6	2.8	4.4
¹³³ Cs	1.6	1.6	1.0	1.2	1.5	1.5	1.6
¹³⁸ Ba	447.0	508.0	356.0	375.0	412.0	477.0	493.0
¹³⁹ La	11.9	14.0	11.1	10.6	9.4	14.3	15.5
¹⁴⁰ Ce	29.9	31.8	23.3	23.9	26.3	29.5	34.2
¹⁴¹ Pr	4.5	5.0	3.6	3.4	3.5	4.8	5.3
¹⁴⁶ Nd	23.6	25.3	18.0	24.5	17.7	27.4	27.6
¹⁴⁷ Sm	6.5	8.0	5.0	6.9	5.5	8.4	9.1
¹⁵¹ Eu	1.6	1.4	1.3	1.4	1.2	1.8	1.8
¹⁵³ Eu	1.5	1.6	1.2	1.4	1.0	1.9	1.8

Table D.1 continued

Sample	C3 24.5-25.5					C3 27.5-28	
¹⁵⁷ Gd	7.0	9.5	7.3	10.2	6.4	7.7	11.4
¹⁵⁹ Tb	1.3	1.5	1.4	1.7	0.9	1.7	1.8
¹⁶³ Dy	8.6	10.4	7.7	11.6	5.6	12.0	11.2
¹⁶⁵ Ho	1.9	2.5	1.7	2.0	1.4	2.6	2.8
¹⁶⁶ Er	6.0	7.4	5.6	6.1	4.1	9.4	8.0
¹⁶⁹ Tm	1.0	1.1	0.8	1.2	0.9	1.2	1.1
¹⁷² Yb	6.4	6.0	6.1	6.6	4.4	7.0	10.2
¹⁷⁵ Lu	1.0	1.1	0.8	1.1	0.9	1.4	1.3
¹⁷⁸ Hf	5.0	5.4	4.7	6.8	4.7	7.5	6.3
¹⁸¹ Ta	0.2	0.2	0.2	0.1	0.1	0.1	0.2
¹⁸² W	0.7	0.9	0.5	2.3	1.8	0.9	0.4
²⁰⁸ Pb	7.9	8.9	6.2	9.8	7.8	9.2	8.6
²³² Th	1.8	2.6	2.1	2.7	1.8	2.7	2.2
²³⁸ U	0.9	0.8	0.5	0.5	0.7	0.7	0.8

Table D.1 continued

Sample	C3 27.5-28		C3 29-29.5				
⁴⁵ Sc	21.9	18.9	21.6	20.4	15.3	19.9	20.6
⁴⁷ Ti	4550.0	4480.0	4950.0	4639.0	3890.0	4970.0	4590.0
⁵¹ V	12.7	9.0	10.4	6.0	7.2	8.7	6.2
⁵³ Cr	-0.7	1.5	6.2	0.3	0.7	-0.5	-1.5
⁵⁵ Mn	1285.0	1218.0	1268.0	1293.0	1144.0	1401.0	1279.0
⁵⁹ Co	4.8	4.0	4.2	3.7	3.0	3.5	3.5
⁶⁰ Ni	0.7	0.0	-0.4	0.0	-1.1	2.0	-0.6
⁶³ Cu	26.4	10.1	12.5	11.5	12.4	18.0	6.6
⁶⁶ Zn	50.6	66.0	39.1	59.6	73.0	77.0	45.9
⁷¹ Ga	14.6	15.3	15.1	16.4	15.1	17.0	15.5
⁸⁵ Rb	31.3	30.4	34.1	34.2	31.4	34.4	35.3
⁸⁶ Sr	160.0	170.0	202.0	199.0	174.0		200.0
⁸⁸ Sr	190.0	194.0	210.0	197.5	173.0		201.0
⁸⁹ Y	60.8	50.5	73.8	59.9	41.5	50.9	68.3
⁹⁰ Zr	196.0	171.0	230.0	197.2	140.0	162.0	220.0
⁹¹ Zr	198.0	166.0	218.0	183.0	134.0	160.0	214.0
⁹³ Nb	2.4	2.5	1.7	2.3	1.9	2.4	2.3
⁹⁵ Mo	3.3	2.6	2.6	2.5	2.5	2.3	3.3
¹³³ Cs	1.4	1.2	1.3	1.5	1.3	1.6	1.3
¹³⁸ Ba	461.0	442.0	475.0	485.0	439.0	492.0	523.0
¹³⁹ La	13.0	13.0	16.0	14.1	11.1	13.8	15.4
¹⁴⁰ Ce	31.3	29.2	30.4	31.3	29.0	33.3	32.9
¹⁴¹ Pr	5.2	4.5	4.9	4.8	4.1	5.3	4.9
¹⁴⁶ Nd	25.1	22.7	27.6	24.1	19.7	25.4	29.2
¹⁴⁷ Sm	8.6	6.4	7.4	7.5	6.1	6.8	7.9
¹⁵¹ Eu	1.8	1.8	1.9	1.7	1.5	2.4	2.1
¹⁵³ Eu	2.1	1.5	2.0	1.6	1.4	1.7	1.7

Table D.1 continued

Sample	C3 27.5-28		C3 29-29.5				
¹⁵⁷ Gd	9.7	8.1	10.2	7.8	6.0	6.7	7.8
¹⁵⁹ Tb	1.7	1.2	1.8	1.6	1.0	1.3	1.8
¹⁶³ Dy	10.3	8.8	11.8	9.6	6.2	9.9	10.0
¹⁶⁵ Ho	2.3	1.9	2.5	2.1	1.7	1.9	2.4
¹⁶⁶ Er	6.6	6.1	6.7	6.4	4.7	6.0	7.6
¹⁶⁹ Tm	1.2	0.9	1.1	0.9	0.7	1.0	1.2
¹⁷² Yb	6.3	6.3	9.8	6.6	4.9	7.6	8.1
¹⁷⁵ Lu	1.1	0.9	1.3	0.9	0.7	0.9	1.0
¹⁷⁸ Hf	5.9	5.0	6.8	5.6	5.0	4.5	7.1
¹⁸¹ Ta	0.2	0.1	0.2	0.1	0.1	0.2	0.2
¹⁸² W	0.3	0.3	0.6	0.4	0.3	0.5	0.6
²⁰⁸ Pb	7.8	7.1	8.3	7.3	7.2	7.8	7.5
²³² Th	2.3	2.2	3.0	2.6	1.7	2.3	2.1
²³⁸ U	0.8	0.7	0.9	0.9	0.8	0.9	1.0

Table D.1 continued

Sample	C3 29-29.5						
⁴⁵ Sc	18.6	17.8	18.5	17.3	16.6	20.0	18.3
⁴⁷ Ti	4510.0	3660.0	4570.0	4330.0	3270.0	4910.0	4060.0
⁵¹ V	7.3	3.6	7.3	6.6	2.2	8.3	4.8
⁵³ Cr	1.3	-1.8	2.0	-4.6	4.8	0.1	-0.1
⁵⁵ Mn	1194.0	1107.0	1227.0	1217.0	1118.0	1338.0	1152.0
⁵⁹ Co	3.9	3.4	4.2	3.3	2.5	3.4	3.0
⁶⁰ Ni	-0.5	-0.2	-0.6	0.2	2.0	-0.4	1.1
⁶³ Cu	13.4	8.7	12.1	12.5	8.5	10.0	9.4
⁶⁶ Zn	59.7	55.4	79.3	63.3	47.1	68.3	50.5
⁷¹ Ga	13.7	13.2	15.5	15.5	14.7	16.3	15.4
⁸⁵ Rb	29.9	31.9	31.0	33.1	35.3	35.0	30.0
⁸⁶ Sr	192.0	177.0	167.0	177.0		178.0	185.0
⁸⁸ Sr	192.4	189.0	166.2	176.0		182.0	178.4
⁸⁹ Y	55.1	57.7	48.9	51.4	54.6	53.8	60.6
⁹⁰ Zr	186.0	191.0	164.8	176.5	190.0	177.5	191.6
⁹¹ Zr	168.0	181.0	156.0	158.0	181.0	162.0	183.0
⁹³ Nb	2.1	2.2	2.3	1.8	2.4	2.6	2.1
⁹⁵ Mo	1.9	5.2	3.1	2.8	4.0	3.0	3.0
¹³³ Cs	1.4	1.2	1.4	1.5	1.6	1.4	1.6
¹³⁸ Ba	461.0	493.0	448.0	471.0	596.0	489.0	458.0
¹³⁹ La	13.4	13.4	13.8	12.6	14.7	13.4	14.2
¹⁴⁰ Ce	29.0	30.7	29.7	31.1	33.4	32.1	31.1
¹⁴¹ Pr	4.3	4.9	4.4	4.8	4.8	5.2	4.6
¹⁴⁶ Nd	23.6	24.4	22.2	23.2	24.1	25.7	23.6
¹⁴⁷ Sm	7.0	6.5	7.6	6.1	7.6	7.9	8.1
¹⁵¹ Eu	1.4	2.0	1.4	1.8	1.3	1.8	1.9
¹⁵³ Eu	1.8	1.7	1.6	1.4	1.6	1.7	1.7

Table D.1 continued

Sample	C3 29-29.5						
¹⁵⁷ Gd	7.1	8.2	7.3	7.7	8.3	7.1	7.4
¹⁵⁹ Tb	1.4	1.3	1.2	1.4	1.4	1.4	1.3
¹⁶³ Dy	9.0	9.8	9.5	9.4	9.5	9.7	11.2
¹⁶⁵ Ho	1.8	1.8	1.8	2.0	2.0	2.3	2.0
¹⁶⁶ Er	5.9	5.7	5.5	6.0	5.9	6.0	5.9
¹⁶⁹ Tm	1.0	1.1	0.8	0.8	1.0	0.8	1.0
¹⁷² Yb	6.7	6.7	6.8	6.4	6.8	6.2	6.4
¹⁷⁵ Lu	1.0	1.1	0.8	0.9	1.1	1.2	1.0
¹⁷⁸ Hf	5.5	4.8	4.5	4.9	4.8	5.2	6.2
¹⁸¹ Ta	0.1	0.1	0.3	0.1	0.1	0.1	0.1
¹⁸² W	0.5	0.6	0.4	0.4	0.5	0.5	0.4
²⁰⁸ Pb	7.5	7.5	7.5	6.9	7.8	7.1	7.0
²³² Th	2.2	2.6	2.2	2.5	2.0	2.0	2.5
²³⁸ U	0.7	0.8	0.8	0.8	0.9	0.7	0.7

Table D.1 continued

Sample	C3 29-29.5	3-.31		C4 24-25		C4 51.5 cm clast	
⁴⁵ Sc	62.9	9.0	7.3	44.1	69.5	29.1	21.7
⁴⁷ Ti	10250.0	1112.0	1720.0	6120.0	9200.0	4133.0	3710.0
⁵¹ V	682.0	14.9	8.8	365.6	666.0	17.7	20.9
⁵³ Cr	21.9	-0.1	1.5	-1.3	17.8	8.5	3.5
⁵⁵ Mn	2240.0	505.0	546.0	1676.0	2507.0	1480.0	1455.0
⁵⁹ Co	53.5					4.3	3.5
⁶⁰ Ni	29.7	0.3	0.2	9.9	24.9	2.3	1.1
⁶³ Cu	176.0	10.5	3.3	180.1	492.0	8.5	8.8
⁶⁶ Zn	149.0	32.4	37.0	94.9	97.7	37.1	131.0
⁷¹ Ga	22.3	4.7	5.3	18.4	26.5	13.8	13.0
⁸⁵ Rb	9.8	3.6	6.7	4.7	8.4	16.0	13.7
⁸⁶ Sr	240.0	48.4	63.7	174.6	311.0	217.0	221.0
⁸⁸ Sr	259.0					189.0	196.0
⁸⁹ Y	30.5	10.9	17.2	29.6	43.0	53.7	35.6
⁹⁰ Zr	48.2	24.4	42.1	34.4	65.1	113.9	73.3
⁹¹ Zr	51.1					115.0	82.0
⁹³ Nb	0.6	0.2	0.5	0.3	0.5	0.9	0.5
⁹⁵ Mo	2.9	0.2	0.3	0.5	0.8	1.8	2.0
¹³³ Cs	0.7					1.3	1.1
¹³⁸ Ba	177.9	59.8	107.6	104.0	191.2	386.0	320.0
¹³⁹ La	3.8	1.5	3.1	2.1	3.7	6.9	4.4
¹⁴⁰ Ce	9.4	3.8	7.7	5.8	9.8	14.2	12.6
¹⁴¹ Pr	1.5	0.7	1.2	1.1	1.6	2.4	2.0
¹⁴⁶ Nd	8.3	3.3	6.6	6.8	10.8	16.7	10.8
¹⁴⁷ Sm	3.2	1.3	2.1	2.3	3.2	4.9	3.5
¹⁵¹ Eu	1.2	0.3	0.6	1.0	1.2	1.7	1.2
¹⁵³ Eu	1.4					1.5	1.0

Table D.1 continued

Sample	C3 29-29.5	3-.31		C4 24-25		C4 51.5 cm clast	
¹⁵⁷ Gd	4.6	1.5	2.9	3.8	5.6	9.1	3.6
¹⁵⁹ Tb	0.8	0.2	0.4	0.6	1.0	1.4	0.6
¹⁶³ Dy	5.7	1.9	2.9	4.3	7.1	9.4	5.5
¹⁶⁵ Ho	1.1	0.4	0.6	1.1	1.6	1.8	1.2
¹⁶⁶ Er	3.5	1.5	2.0	3.2	5.2	6.5	3.6
¹⁶⁹ Tm	0.5	0.2	0.3	0.4	0.6	1.0	0.6
¹⁷² Yb	3.2	1.2	1.7	3.2	4.3	7.1	4.4
¹⁷⁵ Lu	0.6	0.2	0.3	0.5	0.7	0.8	0.6
¹⁷⁸ Hf	1.7	0.8	1.3	1.3	2.1	3.5	2.2
¹⁸¹ Ta	0.0	0.0	0.0	0.0	0.0	0.1	0.1
¹⁸² W	0.2	0.0	0.1	0.1	1.0	0.7	1.6
²⁰⁸ Pb	4.5	1.0	1.8	2.1	4.2	7.0	7.7
²³² Th	0.4	0.2	0.4	0.2	0.6	1.1	0.8
²³⁸ U	0.2	0.1	0.2	0.1	0.1	0.4	0.2

Table D.1 continued

Sample	C4 51.5 cm clast					C4 62-63	
⁴⁵ Sc	22.7	32.2	30.1	20.9	24.2	37.6	48.9
⁴⁷ Ti	4064.0	4060.0	4020.0	3720.0	3790.0	6410.0	6580.0
⁵¹ V	18.7	21.5	18.6	18.7	17.1	416.0	547.0
⁵³ Cr	7.7	-4.3	6.0	0.0	3.3	4.6	13.4
⁵⁵ Mn	1526.0	1640.0	1495.0	1465.0	1510.0	1557.0	1880.0
⁵⁹ Co	4.1	5.7	5.5	3.9	3.8		
⁶⁰ Ni	0.7	2.1	8.8	3.3	0.8	10.8	18.6
⁶³ Cu	-0.3	8.1	15.0	4.8	7.5	265.0	283.0
⁶⁶ Zn	60.6	51.4	40.9	88.1	66.0	100.6	112.8
⁷¹ Ga	13.1	13.2	13.2	12.9	13.9	14.8	15.6
⁸⁵ Rb	14.7	15.0	15.7	16.7	13.5	7.3	5.6
⁸⁶ Sr	199.0	176.0	191.0	174.0	199.0	151.4	161.5
⁸⁸ Sr	172.0	205.0	178.0	174.0	169.0		
⁸⁹ Y	41.6	50.9	60.7	35.3	42.3	27.6	25.2
⁹⁰ Zr	85.3	101.8	119.2	73.2	88.4	45.7	38.8
⁹¹ Zr	86.4	103.0	134.0	80.1	78.0		
⁹³ Nb	0.7	0.7	0.5	1.3	0.9	0.4	0.3
⁹⁵ Mo	1.6	1.2	0.9	1.8	1.2	0.6	0.5
¹³³ Cs	1.1	1.1	1.4	1.3	1.0		
¹³⁸ Ba	377.0	378.0	387.0	347.0	358.0	134.4	121.0
¹³⁹ La	5.3	7.2	7.1	4.7	4.8	2.6	2.1
¹⁴⁰ Ce	15.4	14.9	14.3	13.3	13.8	7.8	6.2
¹⁴¹ Pr	2.3	2.3	2.8	2.0	2.5	1.4	1.0
¹⁴⁶ Nd	14.5	14.4	16.2	12.6	12.4	7.2	5.8
¹⁴⁷ Sm	4.9	5.5	6.8	4.3	4.7	2.4	2.7
¹⁵¹ Eu	1.6	1.2	1.4	1.2	1.3	1.0	0.9
¹⁵³ Eu	1.6	1.4	1.3	1.1	1.7		

Table D.1 continued

Sample	C4 51.5 cm clast					C4 62-63	
¹⁵⁷ Gd	6.5	7.0	8.8	4.6	5.2	3.9	3.6
¹⁵⁹ Tb	0.9	1.1	1.5	0.8	1.1	0.6	0.5
¹⁶³ Dy	7.8	9.2	9.2	6.7	7.6	4.8	3.8
¹⁶⁵ Ho	1.5	2.0	2.8	1.3	1.7	1.0	0.9
¹⁶⁶ Er	5.2	6.1	6.8	4.6	5.4	3.0	2.6
¹⁶⁹ Tm	0.7	0.7	0.6	0.6	1.0	0.5	0.4
¹⁷² Yb	4.6	6.4	6.4	4.4	5.0	2.9	2.8
¹⁷⁵ Lu	0.7	1.2	1.0	0.8	0.8	0.4	0.4
¹⁷⁸ Hf	2.6	3.7	4.6	2.6	2.6	1.8	1.3
¹⁸¹ Ta	0.0	0.0	0.0	0.0	0.0	0.0	0.0
¹⁸² W	0.4	1.2	1.4	0.4	1.1	0.2	0.1
²⁰⁸ Pb	6.5	7.1	20.0	7.2	7.8	2.8	2.4
²³² Th	0.9	1.1	1.2	0.8	0.6	0.3	0.2
²³⁸ U	0.4	0.3	0.4	0.4	0.3	0.1	0.1

Table D.1 continued

Sample	C4 62-63						
⁴⁵ Sc	25.2	23.9	23.5	46.7	41.4	43.0	47.8
⁴⁷ Ti	4540.0	3987.0	3906.0	4650.0	6200.0	7210.0	6480.0
⁵¹ V	20.4	19.0	19.8	371.0	399.0	455.0	540.0
⁵³ Cr	1.5	9.5	2.5	22.3	4.9	0.3	6.1
⁵⁵ Mn	1765.0	1539.0	1572.0	1458.0	1632.0	1730.0	1783.0
⁵⁹ Co	7.0	3.9	3.9				
⁶⁰ Ni	5.0	-0.1	1.5	17.7	9.5	11.7	13.5
⁶³ Cu	12.8	5.9	0.3	194.0	238.0	277.0	268.0
⁶⁶ Zn	82.0	64.3	60.9	85.2	105.9	119.9	122.6
⁷¹ Ga	15.6	13.5	13.2	13.4	15.9	17.3	16.1
⁸⁵ Rb	14.5	14.7	14.9	4.2	6.2	8.9	5.5
⁸⁶ Sr	188.0	194.0	213.0	150.1	174.0	178.3	162.5
⁸⁸ Sr	197.0	155.0	178.0				
⁸⁹ Y	41.1	37.8	40.5	19.6	29.9	32.8	24.6
⁹⁰ Zr	99.8	84.3	85.9	33.6	48.5	60.2	37.0
⁹¹ Zr	98.0	72.7	96.0				
⁹³ Nb	0.7	0.7	0.8	0.2	0.6	0.5	0.3
⁹⁵ Mo	2.0	2.6	2.5	0.3	0.5	0.6	0.5
¹³³ Cs	1.2	1.2	1.3				
¹³⁸ Ba	394.0	347.0	365.0	104.2	139.8	164.3	111.4
¹³⁹ La	5.6	5.5	5.7	2.3	2.9	3.6	2.1
¹⁴⁰ Ce	15.1	12.7	14.4	5.8	8.1	9.7	6.4
¹⁴¹ Pr	2.2	1.9	2.3	1.0	1.5	1.7	1.0
¹⁴⁶ Nd	12.5	12.6	14.6	6.1	7.7	9.2	6.6
¹⁴⁷ Sm	5.4	4.3	4.4	2.0	2.7	3.0	2.1
¹⁵¹ Eu	1.3	1.2	1.0	0.6	1.0	1.2	0.8
¹⁵³ Eu	1.4	1.0	1.3				

Table D.1 continued

Sample	C4 62-63						
¹⁵⁷ Gd	5.9	4.5	5.7	2.4	4.2	4.6	3.2
¹⁵⁹ Tb	0.9	1.1	1.0	0.6	0.7	0.7	0.6
¹⁶³ Dy	6.5	6.0	7.3	3.6	5.1	4.8	4.4
¹⁶⁵ Ho	1.6	1.5	1.4	0.8	1.2	1.1	0.8
¹⁶⁶ Er	4.3	4.6	4.2	2.2	3.2	3.5	2.9
¹⁶⁹ Tm	0.8	0.8	0.7	0.4	0.5	0.5	0.4
¹⁷² Yb	5.9	4.5	4.5	2.3	3.2	3.5	2.8
¹⁷⁵ Lu	0.8	0.8	0.7	0.3	0.6	0.5	0.4
¹⁷⁸ Hf	3.4	2.6	3.0	1.2	1.7	2.0	1.4
¹⁸¹ Ta	0.1	0.0	0.1	0.0	0.0	0.0	0.0
¹⁸² W	2.8	0.5	0.4	0.2	0.2	0.1	0.2
²⁰⁸ Pb	8.7	51.0	6.4	1.6	2.7	3.1	2.6
²³² Th	1.0	0.9	0.8	0.3	0.3	0.5	0.2
²³⁸ U	0.5	0.3	0.3	0.1	0.2	0.2	0.1

Table D.1 continued

Sample	C4 62-63	4-.120					
⁴⁵ Sc	9.0	34.8	19.1	20.8	12.8	33.5	32.0
⁴⁷ Ti	1112.0	6060.0	2920.0	3080.0	2390.0	6570.0	6530.0
⁵¹ V	14.9	264.3	5.2	118.0	12.0	283.1	274.2
⁵³ Cr	-0.1	1.0	1.4	2.1	3.2	1.9	2.1
⁵⁵ Mn	505.0	1542.0	1240.0	803.0	769.0	1633.0	1585.0
⁵⁹ Co							
⁶⁰ Ni	0.3	7.0	0.0	1.3	0.0	6.2	6.4
⁶³ Cu	10.5	190.7	6.2	110.2	1.6	189.9	184.9
⁶⁶ Zn	32.4	92.4	47.0	32.5	50.8	111.5	102.5
⁷¹ Ga	4.7	15.8	16.0	9.0	13.0	16.5	18.7
⁸⁵ Rb	3.6	18.7	14.7	7.2	14.7	19.4	19.2
⁸⁶ Sr	48.4	221.6	184.0	83.5	117.8	216.0	225.7
⁸⁸ Sr							
⁸⁹ Y	10.9	32.9	62.8	22.5	40.4	36.0	34.1
⁹⁰ Zr	24.4	95.7	190.0	57.5	141.0	96.6	97.4
⁹¹ Zr							
⁹³ Nb	0.2	0.9	1.5	0.4	1.6	1.2	1.1
⁹⁵ Mo	0.2	1.0	0.5	0.5	0.4	0.8	0.8
¹³³ Cs							
¹³⁸ Ba	59.8	282.0	349.0	117.5	283.0	299.6	303.1
¹³⁹ La	1.5	8.0	12.3	3.5	9.2	8.3	8.5
¹⁴⁰ Ce	3.8	18.4	29.0	8.3	23.5	20.2	19.6
¹⁴¹ Pr	0.7	3.1	5.0	1.5	3.4	3.1	3.1
¹⁴⁶ Nd	3.3	15.5	25.3	7.7	18.3	15.4	15.3
¹⁴⁷ Sm	1.3	4.5	7.4	2.3	4.8	4.7	4.4
¹⁵¹ Eu	0.3	1.2	1.9	0.7	1.3	1.3	1.3
¹⁵³ Eu							

Table D.1 continued

Sample	C4 62-63	4-.120					
¹⁵⁷ Gd	3.21	5.7	10.1	3.1	6.2	5.5	6.2
¹⁵⁹ Tb	0.6	1.0	1.7	0.6	1.0	0.9	0.9
¹⁶³ Dy	4.4	5.1	10.0	3.6	6.5	6.4	5.5
¹⁶⁵ Ho	0.8	1.1	2.3	0.9	1.4	1.3	1.3
¹⁶⁶ Er	2.9	4.0	6.7	3.3	4.4	3.7	3.7
¹⁶⁹ Tm	0.4	0.5	1.0	0.4	0.7	0.5	0.6
¹⁷² Yb	2.8	3.6	6.9	2.6	4.5	3.9	3.5
¹⁷⁵ Lu	0.4	0.6	1.0	0.4	0.6	0.5	0.6
¹⁷⁸ Hf	1.4	2.8	5.6	1.6	4.3	2.9	2.9
¹⁸¹ Ta	0.0	0.1	0.2	0.1	0.1	0.1	0.1
¹⁸² W	0.2	0.2	0.2	0.2	0.1	0.2	0.3
²⁰⁸ Pb	2.6	5.8	4.8	2.1	4.2	4.5	5.0
²³² Th	0.2	1.2	1.8	0.5	1.5	1.3	1.3
²³⁸ U	0.1	0.4	0.6	0.2	0.5	0.5	0.5

Table D.1 continued

Sample	C4 126-127						
⁴⁵ Sc	32.3	40.9	34.3	59.4	35.1	34.5	54.3
⁴⁷ Ti	6750.0	7310.0	7120.0	6010.0	7150.0	6790.0	6430.0
⁵¹ V	285.0	317.9	293.1	346.0	305.4	290.3	315.1
⁵³ Cr	3.6	2.9	0.0	1.5	3.8	3.8	14.7
⁵⁵ Mn	1648.0	2102.0	1803.0	2267.0	1798.0	1724.0	2235.0
⁵⁹ Co							
⁶⁰ Ni	7.9	5.2	5.7	6.1	6.5	8.0	18.5
⁶³ Cu	201.4	125.4	212.4	90.2	221.1	218.7	178.1
⁶⁶ Zn	108.6	80.3	125.0	113.0	111.9	120.1	109.5
⁷¹ Ga	16.7	18.4	19.9	16.3	18.7	17.1	16.4
⁸⁵ Rb	20.5	17.4	23.1	12.1	21.4	21.0	16.8
⁸⁶ Sr	223.6	306.3	210.5	202.2	242.9	226.3	198.2
⁸⁸ Sr							
⁸⁹ Y	33.2	41.7	35.7	26.9	36.6	35.5	34.6
⁹⁰ Zr	93.0	99.0	99.9	61.3	103.1	98.7	88.1
⁹¹ Zr							
⁹³ Nb	1.1	1.0	1.2	0.7	0.9	1.1	1.0
⁹⁵ Mo	1.0	0.7	1.0	0.5	0.9	1.0	0.7
¹³³ Cs							
¹³⁸ Ba	308.5	322.0	334.9	214.6	320.4	320.2	258.8
¹³⁹ La	8.0	8.9	8.8	5.7	8.5	8.6	7.6
¹⁴⁰ Ce	20.8	20.6	23.0	15.1	20.7	21.5	17.3
¹⁴¹ Pr	2.9	3.4	3.2	2.3	3.5	3.4	2.8
¹⁴⁶ Nd	14.9	17.8	16.7	12.0	16.8	17.1	15.1
¹⁴⁷ Sm	4.3	5.1	4.6	3.9	4.8	4.4	4.1
¹⁵¹ Eu	1.4	1.5	1.5	1.1	1.4	1.5	1.2
¹⁵³ Eu							

Table D.1 continued

Sample	C4 126-127						
¹⁵⁷ Gd	5.3	6.3	5.4	4.6	6.4	5.7	5.3
¹⁵⁹ Tb	1.0	1.1	0.8	0.7	0.9	0.9	1.0
¹⁶³ Dy	5.3	7.6	6.2	4.6	5.9	6.1	6.5
¹⁶⁵ Ho	1.2	1.4	1.3	1.0	1.3	1.3	1.3
¹⁶⁶ Er	3.6	4.3	3.8	2.9	4.1	4.1	4.3
¹⁶⁹ Tm	0.5	0.5	0.5	0.4	0.6	0.6	0.6
¹⁷² Yb	3.5	4.4	3.8	3.2	3.6	3.9	3.8
¹⁷⁵ Lu	0.6	0.6	0.7	0.5	0.7	0.6	0.6
¹⁷⁸ Hf	2.5	2.8	2.9	1.6	2.9	2.9	2.6
¹⁸¹ Ta	0.1	0.1	0.1	0.0	0.1	0.1	0.1
¹⁸² W	0.2	0.4	0.2	0.1	0.2	0.2	0.2
²⁰⁸ Pb	5.1	4.4	5.4	3.5	6.1	5.3	4.4
²³² Th	1.3	1.3	1.3	0.7	1.4	1.3	1.1
²³⁸ U	0.5	0.4	0.5	0.3	0.6	0.5	0.4

Table D.1 continued

Sample	4-129						
⁴⁵ Sc	31.5	22.2	31.7	35.2	34.2	33.9	29.4
⁴⁷ Ti	6530.0	4320.0	6900.0	6200.0	5950.0	6950.0	6390.0
⁵¹ V	283.1	188.1	182.2	405.0	301.0	326.6	276.0
⁵³ Cr	1.8	5.1	1.8	14.3	8.6	-1.3	0.3
⁵⁵ Mn	1607.0	1136.0	1940.0	1539.0	1412.0	1829.0	1570.0
⁵⁹ Co							
⁶⁰ Ni	7.9	4.4	1.7	10.9	11.5	2.8	6.3
⁶³ Cu	236.8	164.0	21.7	213.9	221.0	127.5	232.9
⁶⁶ Zn	116.9	43.2	124.5	95.6	37.9	116.3	109.5
⁷¹ Ga	17.0	15.5	19.0	15.0	17.5	19.1	16.5
⁸⁵ Rb	19.4	12.9	15.0	11.7	15.7	15.7	18.9
⁸⁶ Sr	208.0	241.5	254.0	183.1	226.5	250.9	217.5
⁸⁸ Sr							
⁸⁹ Y	30.8	24.3	28.3	20.1	31.2	26.3	28.4
⁹⁰ Zr	82.5	67.2	65.7	49.0	81.2	65.4	82.3
⁹¹ Zr							
⁹³ Nb	1.1	0.7	0.9	0.7	0.9	0.9	1.1
⁹⁵ Mo	0.9	0.6	0.6	0.5	0.6	0.6	0.9
¹³³ Cs							
¹³⁸ Ba	291.0	205.0	257.0	197.0	243.1	268.0	288.0
¹³⁹ La	7.4	5.3	7.0	5.1	7.1	6.6	7.2
¹⁴⁰ Ce	20.3	13.4	19.4	13.0	16.0	17.7	19.5
¹⁴¹ Pr	2.9	2.0	2.9	2.0	2.5	2.7	2.8
¹⁴⁶ Nd	14.1	10.4	14.4	9.5	13.0	13.3	14.4
¹⁴⁷ Sm	4.3	3.4	3.9	2.6	4.4	3.8	4.7
¹⁵¹ Eu	1.2	0.8	1.4	1.0	1.1	1.2	1.2
¹⁵³ Eu							

Table D.1 continued

Sample	4-129						
¹⁵⁷ Gd	4.7	3.7	4.9	3.3	5.2	4.7	5.1
¹⁵⁹ Tb	0.7	0.5	0.8	0.5	0.8	0.7	0.7
¹⁶³ Dy	5.1	4.0	5.1	3.8	5.3	4.8	5.2
¹⁶⁵ Ho	1.0	0.9	1.0	0.8	1.2	0.9	1.0
¹⁶⁶ Er	3.0	2.6	2.9	2.3	3.1	3.0	3.3
¹⁶⁹ Tm	0.5	0.4	0.5	0.3	0.5	0.4	0.4
¹⁷² Yb	3.1	2.6	3.0	2.2	2.9	2.7	3.0
¹⁷⁵ Lu	0.5	0.4	0.4	0.3	0.5	0.4	0.5
¹⁷⁸ Hf	2.4	1.9	2.1	1.7	2.4	2.2	2.5
¹⁸¹ Ta	0.1	0.1	0.1	0.0	0.1	0.1	0.1
¹⁸² W	0.2	0.1	0.2	0.2	0.2	0.1	0.1
²⁰⁸ Pb	4.7	3.6	4.6	3.5	4.1	4.5	5.0
²³² Th	1.1	0.9	1.1	0.7	1.2	1.1	1.1
²³⁸ U	0.4	0.3	0.4	0.3	0.4	0.4	0.4

Table D.1 continued

Sample	4-129		C4 144.5-145.5			
⁴⁵ Sc	36.1	31.1	8.5	7.5	7.8	8.1
⁴⁷ Ti	6390.0	6670.0	1778.0	1603.0	1690.0	1775.0
⁵¹ V	297.4	294.5	6.1	15.3	6.4	8.6
⁵³ Cr	2.2	1.0	-0.4	-0.1	-0.3	0.6
⁵⁵ Mn	1675.0	1672.0	552.0	526.0	505.0	548.0
⁵⁹ Co						
⁶⁰ Ni	6.3	8.7	0.1	0.2	0.0	0.2
⁶³ Cu	213.0	246.0	-0.3	2.0	0.1	1.1
⁶⁶ Zn	46.9	110.8	31.0	26.6	26.3	26.6
⁷¹ Ga	19.1	17.1	6.0	5.1	6.0	6.4
⁸⁵ Rb	19.1	20.2	5.1	4.0	4.7	4.8
⁸⁶ Sr	241.3	209.7	78.3	66.8	79.5	80.9
⁸⁸ Sr						
⁸⁹ Y	34.0	29.6	20.1	14.9	16.9	19.3
⁹⁰ Zr	90.2	78.0	57.6	37.8	51.7	59.0
⁹¹ Zr						
⁹³ Nb	0.8	1.0	0.5	0.3	0.5	0.6
⁹⁵ Mo	0.9	0.9	0.2	0.2	0.2	0.2
¹³³ Cs						
¹³⁸ Ba	329.0	293.0	111.9	82.0	101.4	106.5
¹³⁹ La	7.3	7.5	4.1	2.9	3.5	4.0
¹⁴⁰ Ce	17.9	20.3	9.9	7.4	9.0	9.6
¹⁴¹ Pr	2.7	2.8	1.7	1.2	1.5	1.7
¹⁴⁶ Nd	14.5	14.4	8.5	6.5	7.3	8.6
¹⁴⁷ Sm	4.2	4.1	2.5	1.9	2.4	2.4
¹⁵¹ Eu	1.2	1.3	0.7	0.5	0.6	0.8
¹⁵³ Eu						

Table D.1 continued

Sample	4-129		C4 144.5-145.5			
¹⁵⁷ Gd	5.5	4.7	3.2	2.3	2.7	3.0
¹⁵⁹ Tb	0.9	0.8	0.5	0.4	0.5	0.5
¹⁶³ Dy	5.6	5.4	3.1	2.4	2.8	3.3
¹⁶⁵ Ho	1.2	1.1	0.7	0.5	0.6	0.7
¹⁶⁶ Er	3.4	3.2	2.2	1.6	1.9	2.2
¹⁶⁹ Tm	0.4	0.6	0.3	0.2	0.3	0.3
¹⁷² Yb	3.2	3.2	2.0	1.5	1.7	2.0
¹⁷⁵ Lu	0.5	0.5	0.3	0.2	0.2	0.3
¹⁷⁸ Hf	2.7	2.7	1.8	1.2	1.5	1.8
¹⁸¹ Ta	0.1	0.1	0.0	0.0	0.0	0.0
¹⁸² W	0.1	0.2	0.0	0.0	0.0	0.3
²⁰⁸ Pb	5.0	4.9	1.7	1.4	1.5	1.8
²³² Th	1.3	1.2	0.6	0.4	0.5	0.6
²³⁸ U	0.4	0.5	0.2	0.1	0.2	0.2

Table D.1 continued

Sample	C4 151-152						
⁴⁵ Sc	50.1	45.9	60.1	35.9	41.8	36.7	43.1
⁴⁷ Ti	8570.0	7320.0	9220.0	6250.0	6950.0	6650.0	7950.0
⁵¹ V	248.0	5.2	52.0	101.5	202.5	8.4	11.6
⁵³ Cr	19.0	6.0	0.9	2.8	3.4	6.7	2.7
⁵⁵ Mn	2710.0	2850.0	3530.0	1499.0	2010.0	2630.0	3132.0
⁵⁹ Co							
⁶⁰ Ni	10.7	8.0	3.1	2.5	0.3	0.0	0.5
⁶³ Cu	149.0	37.5	72.0	107.7	51.8	28.5	31.3
⁶⁶ Zn	129.0	84.0	76.0	57.0	90.6	110.0	117.7
⁷¹ Ga	31.4	27.6	40.1	19.7	21.9	29.3	34.2
⁸⁵ Rb				22.9	10.3		
⁸⁶ Sr	309.0	376.0	436.0	261.2	224.2	317.0	383.0
⁸⁸ Sr							
⁸⁹ Y	77.3	128.0	135.5	43.1	40.1	84.2	103.8
⁹⁰ Zr				101.4	77.4		
⁹¹ Zr							
⁹³ Nb				1.1	0.8		
⁹⁵ Mo	1.7	2.0	2.3	1.2	0.7	2.0	2.2
¹³³ Cs							
¹³⁸ Ba				299.0	206.6		
¹³⁹ La				6.2	5.3		
¹⁴⁰ Ce	38.4	52.8	58.0	14.2	13.0	46.9	56.0
¹⁴¹ Pr	6.0	9.6	9.5	2.5	2.3	7.3	8.4
¹⁴⁶ Nd	34.3	50.1	53.9	14.2	12.0	37.6	45.7
¹⁴⁷ Sm	10.1	12.2	13.8	4.5	4.0	9.6	12.5
¹⁵¹ Eu	2.8	3.4	4.1	1.6	1.3	3.1	3.7
¹⁵³ Eu							

Table D.1 continued

Sample	C4 151-152						
¹⁵⁷ Gd	12.9	18.7	20.3	5.4	6.0	12.5	15.5
¹⁵⁹ Tb	1.9	3.0	3.9	1.1	1.0	2.3	2.6
¹⁶³ Dy	12.6	16.5	22.5	6.9	6.8	14.5	17.5
¹⁶⁵ Ho	2.7	4.1	4.7	1.6	1.4	3.2	3.5
¹⁶⁶ Er	9.1	11.6	14.1	4.7	4.7	9.7	11.2
¹⁶⁹ Tm	1.3	1.7	2.1	0.7	0.6	1.4	1.7
¹⁷² Yb	8.2	13.4	13.8	4.2	4.2	9.3	11.1
¹⁷⁵ Lu	1.4	2.2	2.6	0.9	0.8	1.5	1.8
¹⁷⁸ Hf	7.2	11.2	11.1	3.6	2.5	7.8	9.7
¹⁸¹ Ta	0.1	0.1	0.3	0.1	0.0	0.2	0.2
¹⁸² W	0.5	5.3	0.8	0.2	0.4	0.4	0.6
²⁰⁸ Pb	10.6	13.3	15.5	5.2	4.2	11.5	14.1
²³² Th	3.2	4.6	5.1	1.0	0.7	3.8	4.2
²³⁸ U	1.0	1.3	1.4	0.3	0.3	1.1	1.3

Table D.1 continued

Sample	4-.153						
⁴⁵ Sc	62.8	37.5	33.2	37.7	35.4	36.1	41.4
⁴⁷ Ti	5970.0	5580.0	6060.0	7070.0	6530.0	6540.0	7420.0
⁵¹ V	309.6	318.7	258.2	402.0	300.1	284.8	319.1
⁵³ Cr	-0.7	-0.9	-0.2	0.2	-0.7	0.6	-2.1
⁵⁵ Mn	2670.0	1464.0	1587.0	1663.0	1703.0	1700.0	1960.0
⁵⁹ Co							
⁶⁰ Ni	5.4	3.3	2.3	6.9	2.4	2.0	2.5
⁶³ Cu	78.5	107.1	100.7	83.5	101.7	98.2	121.7
⁶⁶ Zn	122.6	78.5	95.7	97.4	99.6	97.4	111.9
⁷¹ Ga	15.4	14.5	16.5	18.5	15.9	16.0	18.7
⁸⁵ Rb	10.5	10.0	13.8	10.2	14.1	14.6	16.8
⁸⁶ Sr	194.0	248.7	246.5	248.0	253.2	257.1	295.9
⁸⁸ Sr							
⁸⁹ Y	27.8	23.8	32.1	26.4	28.6	31.4	36.8
⁹⁰ Zr	63.0	60.8	87.6	62.6	77.0	82.6	97.9
⁹¹ Zr							
⁹³ Nb	0.7	0.6	0.9	0.9	0.9	0.9	1.1
⁹⁵ Mo							
¹³³ Cs	0.5	0.4	0.6	0.5	0.6	0.5	0.7
¹³⁸ Ba	194.1	192.7	263.0	218.0	255.8	267.5	319.4
¹³⁹ La	5.7	5.6	7.8	5.9	7.2	8.3	9.0
¹⁴⁰ Ce	12.9	12.2	17.8	13.7	16.2	17.4	20.6
¹⁴¹ Pr	2.1	2.0	2.9	2.3	2.7	2.7	3.6
¹⁴⁶ Nd	11.3	10.6	14.8	11.8	13.5	14.8	16.7
¹⁴⁷ Sm	3.9	3.3	4.3	3.7	3.8	4.3	4.7
¹⁵¹ Eu	1.0	1.0	1.3	1.1	1.2	1.3	1.7
¹⁵³ Eu							

Table D.1 continued

Sample	4-.153						
¹⁵⁷ Gd	4.7	3.8	5.2	3.4	4.4	5.2	5.9
¹⁵⁹ Tb	0.7	0.6	0.8	0.6	0.7	0.7	0.9
¹⁶³ Dy	4.9	3.9	5.6	4.4	5.5	5.6	6.3
¹⁶⁵ Ho	1.0	0.8	1.2	1.0	1.1	1.2	1.2
¹⁶⁶ Er	3.4	2.7	3.8	2.8	3.3	3.4	4.3
¹⁶⁹ Tm	0.5	0.4	0.5	0.4	0.5	0.5	0.6
¹⁷² Yb	3.1	2.6	3.5	2.6	3.1	3.4	3.9
¹⁷⁵ Lu	0.5	0.4	0.5	0.4	0.5	0.5	0.6
¹⁷⁸ Hf	2.1	1.8	2.3	1.7	2.0	2.6	3.3
¹⁸¹ Ta	0.0	0.1	0.1	0.1	0.1	0.1	0.1
¹⁸² W	0.1	0.1	0.1	0.1	0.1	0.1	0.3
²⁰⁸ Pb	2.9	2.6	3.8	3.1	3.8	4.1	4.4
²³² Th	0.8	0.8	1.2	0.8	1.1	1.2	1.3
²³⁸ U	0.3	0.3	0.4	0.3	0.4	0.4	0.4

Table D.1 continued

Sample	C4 158-159						
⁴⁵ Sc	41.8	45.2	43.1	62.3	82.0	58.1	33.7
⁴⁷ Ti	7500.0	8450.0	7780.0	7170.0	8200.0	8970.0	6480.0
⁵¹ V	418.0	395.0	432.0	521.5	489.0	481.0	329.0
⁵³ Cr	7.4	1.1	-1.6	3.5	49.0	-0.6	7.6
⁵⁵ Mn	1964.0	1896.0	1975.0	2162.0	2213.0	2197.0	1657.0
⁵⁹ Co							
⁶⁰ Ni	4.6	7.9	9.0	17.0	23.2	6.5	10.7
⁶³ Cu	152.2	236.0	220.4	171.6	258.0	300.0	142.0
⁶⁶ Zn	102.7	94.3	104.6	101.2	56.7	95.0	57.4
⁷¹ Ga	19.4	21.5	19.0	18.5	17.5	19.0	21.1
⁸⁵ Rb	13.8	9.8	16.1	7.3	10.3	10.4	15.9
⁸⁶ Sr	293.0	271.0	239.9	200.8	225.3	213.7	317.0
⁸⁸ Sr							
⁸⁹ Y	28.8	42.5	34.5	27.6	50.5	46.8	34.3
⁹⁰ Zr	73.8	77.8	93.5	46.4	78.3	81.7	108.1
⁹¹ Zr							
⁹³ Nb	0.7	0.6	1.0	0.5	0.6	0.6	1.1
⁹⁵ Mo							
¹³³ Cs	0.7	0.6	0.7	0.4	0.6	0.7	0.5
¹³⁸ Ba	248.1	184.2	278.2	129.1	163.8	190.0	304.0
¹³⁹ La	6.7	5.8	8.3	3.4	5.4	6.2	8.6
¹⁴⁰ Ce	17.0	14.7	18.8	8.8	12.0	13.9	19.9
¹⁴¹ Pr	2.7	2.3	2.9	1.4	2.3	2.5	3.1
¹⁴⁶ Nd	14.3	14.8	16.4	8.3	12.6	14.2	16.6
¹⁴⁷ Sm	4.5	4.7	4.3	3.0	4.1	5.1	5.0
¹⁵¹ Eu	1.4	1.6	1.5	1.0	1.3	1.5	1.3
¹⁵³ Eu							

Table D.1 continued

Sample	C4 158-159						
¹⁵⁷ Gd	4.5	5.3	6.2	3.8	7.0	6.0	4.9
¹⁵⁹ Tb	0.8	1.1	1.0	0.6	1.1	1.3	0.8
¹⁶³ Dy	5.3	6.9	6.0	4.2	8.2	7.7	6.0
¹⁶⁵ Ho	1.2	1.5	1.2	1.0	1.7	1.4	1.1
¹⁶⁶ Er	3.5	4.7	3.7	2.9	5.5	5.3	3.4
¹⁶⁹ Tm	0.4	0.7	0.6	0.4	0.8	0.7	0.5
¹⁷² Yb	3.2	4.4	3.5	2.8	4.8	4.7	3.8
¹⁷⁵ Lu	0.4	0.6	0.5	0.5	0.8	0.8	0.5
¹⁷⁸ Hf	2.6	2.3	2.8	2.0	2.7	2.5	3.5
¹⁸¹ Ta	0.0	0.0	0.1	0.0	0.0	0.1	0.1
¹⁸² W	0.3	0.4	0.3	0.2	0.5	0.4	0.3
²⁰⁸ Pb	4.6	4.8	5.4	2.7	5.0	3.9	5.2
²³² Th	1.0	1.1	1.3	0.5	0.7	0.8	1.5
²³⁸ U	0.4	0.2	0.4	0.1	0.2	0.3	0.4

Table D.1 continued

Sample	4-.161					C4 174.5-175.5	
⁴⁵ Sc	41.3	43.6	18.8	73.9	43.5	9.4	9.7
⁴⁷ Ti	6640.0	6340.0	3016.0	9780.0	4880.0	1260.0	1840.0
⁵¹ V	340.0	223.9	187.9	394.0	245.0	8.8	2.9
⁵³ Cr	3.2	0.4	8.0	2.5	27.6	-2.4	1.6
⁵⁵ Mn	1738.0	1847.0	516.0	2840.0	1303.0	543.0	660.0
⁵⁹ Co							
⁶⁰ Ni	2.4	0.3	10.9	3.9	27.2	0.9	0.4
⁶³ Cu	104.2	57.1	79.7	41.5	242.0	6.6	8.3
⁶⁶ Zn	104.6	115.1	33.9	167.4	83.3	19.6	24.2
⁷¹ Ga	16.4	18.2	12.1	17.1	16.4	6.4	9.5
⁸⁵ Rb	5.9	6.7	3.2	1.1	2.6	9.2	12.0
⁸⁶ Sr	178.5	214.2	105.4	157.9	134.0	60.9	81.8
⁸⁸ Sr							
⁸⁹ Y	26.3	33.4	14.1	30.1	13.8	24.1	32.1
⁹⁰ Zr	51.1	55.6	22.2	50.5	34.2	65.7	89.8
⁹¹ Zr							
⁹³ Nb	0.6	0.6	0.1	0.6	0.3	0.6	0.7
⁹⁵ Mo							
¹³³ Cs	0.3	0.4	0.4	0.1	0.3	0.4	0.5
¹³⁸ Ba	125.7	164.9	61.0	94.1	90.0	141.0	188.0
¹³⁹ La	3.4	3.3	0.8	2.6	1.3	3.9	5.7
¹⁴⁰ Ce	9.7	10.0	3.1	7.9	4.0	9.2	12.5
¹⁴¹ Pr	1.5	1.6	0.5	1.3	0.7	1.3	2.3
¹⁴⁶ Nd	9.1	9.1	3.1	8.2	3.8	8.2	11.3
¹⁴⁷ Sm	3.0	3.6	1.2	3.0	1.0	1.8	2.9
¹⁵¹ Eu	1.2	1.4	0.4	1.2	0.5	0.5	0.9
¹⁵³ Eu							

Table D.1 continued

Sample	4-.161					C4 174.5-175.5	
¹⁵⁷ Gd	4.0	4.7	1.7	4.0	1.5	3.1	4.8
¹⁵⁹ Tb	0.7	0.9	0.3	0.8	0.3	0.4	0.7
¹⁶³ Dy	4.3	6.0	2.1	5.3	2.5	3.3	4.8
¹⁶⁵ Ho	1.1	1.3	0.5	1.1	0.5	0.9	1.1
¹⁶⁶ Er	2.6	3.3	1.3	3.6	1.7	2.3	3.7
¹⁶⁹ Tm	0.5	0.7	0.3	0.5	0.2	0.3	0.4
¹⁷² Yb	3.3	3.9	1.5	4.2	1.7	2.5	3.3
¹⁷⁵ Lu	0.4	0.5	0.3	0.6	0.2	0.3	0.5
¹⁷⁸ Hf	1.5	1.9	0.9	1.9	1.3	1.8	2.7
¹⁸¹ Ta	0.1	0.0	0.0	0.1	0.0	0.0	0.0
¹⁸² W	0.2	0.3	0.2	0.2	0.2	0.1	0.1
²⁰⁸ Pb	2.3	3.1	1.3	1.8	2.0	2.9	3.9
²³² Th	0.5	0.6	0.1	0.4	0.2	0.7	0.9
²³⁸ U	0.2	0.2	0.1	0.1	0.1	0.2	0.3

Table D.1 continued

Sample	C4 174.5-175.5					
⁴⁵ Sc	7.9	10.3	9.1	10.1	9.9	9.9
⁴⁷ Ti	1702.0	1710.0	1610.0	1970.0	1410.0	1347.0
⁵¹ V	2.7	2.2	4.3	4.5	3.2	5.8
⁵³ Cr	2.4	7.5	5.2	-1.5	-0.8	1.0
⁵⁵ Mn	516.0	561.0	506.0	518.0	509.0	551.0
⁵⁹ Co						
⁶⁰ Ni	0.3	0.5	0.1	1.3	0.8	0.4
⁶³ Cu	5.6	5.5	9.2	16.3	15.3	3.5
⁶⁶ Zn	18.9	16.9	15.8	23.0	20.4	28.1
⁷¹ Ga	5.8	8.2	7.8	7.3	7.3	7.0
⁸⁵ Rb	12.1	16.4	14.0	15.9	14.2	10.1
⁸⁶ Sr	75.4	88.0	73.3	74.9	70.7	71.0
⁸⁸ Sr						
⁸⁹ Y	24.2	36.2	33.5	31.3	33.2	27.4
⁹⁰ Zr	81.3	119.0	96.5	104.0	106.7	71.0
⁹¹ Zr						
⁹³ Nb	0.7	1.2	0.7	1.0	1.2	0.5
⁹⁵ Mo						
¹³³ Cs	0.6	0.7	0.7	0.8	0.6	0.6
¹³⁸ Ba	187.0	235.0	217.0	222.0	208.0	171.0
¹³⁹ La	5.9	7.5	6.3	6.5	6.1	4.4
¹⁴⁰ Ce	12.8	14.9	13.5	15.3	13.6	10.9
¹⁴¹ Pr	2.0	2.8	2.1	2.2	2.4	1.7
¹⁴⁶ Nd	11.7	13.9	12.1	11.7	11.0	8.9
¹⁴⁷ Sm	3.1	3.0	3.5	3.3	3.0	2.6
¹⁵¹ Eu	0.7	1.1	0.7	0.9	0.7	0.7
¹⁵³ Eu						

Table D.1 continued

Sample	C4 174.5-175.5					
¹⁵⁷ Gd	3.5	5.6	5.6	3.9	4.3	3.6
¹⁵⁹ Tb	0.6	0.9	0.6	0.7	0.8	0.6
¹⁶³ Dy	3.9	5.1	5.4	5.0	5.3	4.1
¹⁶⁵ Ho	1.0	1.2	1.2	1.0	1.2	0.9
¹⁶⁶ Er	2.7	3.7	3.5	3.6	3.3	2.8
¹⁶⁹ Tm	0.4	0.6	0.5	0.5	0.5	0.4
¹⁷² Yb	2.5	3.6	3.6	2.6	3.6	2.9
¹⁷⁵ Lu	0.4	0.7	0.5	0.5	0.5	0.5
¹⁷⁸ Hf	2.2	3.6	3.1	3.4	2.8	2.4
¹⁸¹ Ta	0.0	0.1	0.0	0.1	0.0	0.0
¹⁸² W	0.2	0.2	0.3	0.2	0.4	0.1
²⁰⁸ Pb	3.2	4.4	3.7	3.8	4.3	3.3
²³² Th	0.9	1.3	1.1	1.2	1.0	0.7
²³⁸ U	0.2	0.3	0.3	0.3	0.4	0.2

Table D.1 continued

Sample	C5 4 cm clast						
⁴⁵ Sc	18.7	20.5	24.1	17.9	18.6	21.2	18.9
⁴⁷ Ti	6030.0	6320.0	5750.0	5460.0	5390.0	6070.0	5560.0
⁵¹ V	32.2	29.0	31.6	28.9	27.6	29.3	27.4
⁵³ Cr	-3.0	0.3	1.3	0.2	0.2	2.5	-1.3
⁵⁵ Mn	1730.0	1970.0	1950.0	1969.0	1880.0	2270.0	1540.0
⁵⁹ Co	8.5	7.3	7.7	8.9	7.5	8.5	7.2
⁶⁰ Ni	0.5	0.4	4.6	1.9	1.9	-0.8	0.3
⁶³ Cu	19.2	11.5	24.6	12.7	14.5	13.5	15.0
⁶⁶ Zn	95.0	59.0	90.0	103.3	115.0	74.8	71.4
⁷¹ Ga	16.4	12.6	15.3	13.5	15.3	15.2	12.1
⁸⁵ Rb	21.3	18.0	21.6	20.9	19.9	23.7	17.8
⁸⁶ Sr	216.0	233.0	255.0	218.0	238.0	289.0	228.0
⁸⁸ Sr	209.0	174.0	215.0	171.0	198.0	214.0	177.0
⁸⁹ Y	36.0	39.0	48.3	33.4	34.0	45.4	33.6
⁹⁰ Zr	125.0	137.0	145.0	111.3	122.0	156.0	124.0
⁹¹ Zr	120.0	135.0	140.0	103.0	101.0	155.0	111.0
⁹³ Nb	2.1	1.6	1.3	1.7	1.3	2.2	1.5
⁹⁵ Mo	1.6	1.4	2.8	1.6	2.4	2.3	2.1
¹³³ Cs	0.7	0.8	0.9	0.9	1.0	1.0	0.7
¹³⁸ Ba	361.0	381.0	343.0	323.0	288.0	432.0	353.0
¹³⁹ La	11.4	10.7	10.6	8.4	8.8	12.7	9.6
¹⁴⁰ Ce	27.4	27.6	25.1	24.8	25.5	31.9	26.4
¹⁴¹ Pr	3.4	4.1	3.8	3.4	3.1	4.7	3.7
¹⁴⁶ Nd	18.5	20.6	23.4	16.4	14.9	22.8	18.6
¹⁴⁷ Sm	5.6	6.1	4.4	4.3	6.0	6.0	4.3
¹⁵¹ Eu	1.8	1.7	1.5	1.5	1.3	1.9	1.4
¹⁵³ Eu	1.3	1.9	1.8	1.2	1.5	1.8	1.3

Table D.1 continued

Sample	C5 4 cm clast						
¹⁵⁷ Gd	6.2	7.1	7.6	5.2	6.3	7.8	5.3
¹⁵⁹ Tb	0.9	1.1	1.3	0.8	1.0	0.8	0.9
¹⁶³ Dy	7.0	7.0	9.8	5.3	5.6	6.9	6.5
¹⁶⁵ Ho	1.4	1.3	1.8	1.1	1.5	1.7	1.4
¹⁶⁶ Er	4.6	4.3	4.9	3.5	4.1	5.1	4.2
¹⁶⁹ Tm	0.6	0.7	0.7	0.6	0.7	0.8	0.6
¹⁷² Yb	4.0	5.2	5.4	3.4	4.1	5.2	4.4
¹⁷⁵ Lu	0.7	0.7	0.8	0.5	0.7	0.8	0.6
¹⁷⁸ Hf	3.8	3.7	3.9	3.3	3.4	4.0	3.7
¹⁸¹ Ta	0.1	0.1	0.1	0.2	0.1	0.1	0.1
¹⁸² W	1.2	0.8	3.2	0.7	0.4	0.6	0.5
²⁰⁸ Pb	4.8	4.8	8.0	4.7	4.9	4.6	4.7
²³² Th	1.6	1.8	2.5	1.4	1.7	2.0	1.8
²³⁸ U	0.7	0.7	0.7	0.6	0.7	0.6	0.6

Table D.1 continued

Sample	C5 4 cm clast	5-6					
⁴⁵ Sc	19.0	18.5	19.8	19.0	19.0	19.8	18.2
⁴⁷ Ti	5870.0	4990.0	5191.0	5010.0	5070.0	4970.0	5100.0
⁵¹ V	32.8	29.4	29.0	31.3	28.2	29.8	29.4
⁵³ Cr	2.0	0.4	-0.8	0.9	2.7	0.3	0.1
⁵⁵ Mn	1702.0	1376.0	1458.0	1309.0	1413.0	1387.0	1435.0
⁵⁹ Co	8.3	7.8	7.2	8.7	8.0	7.5	7.5
⁶⁰ Ni	0.1	0.9	-0.1	0.4	-0.1	-0.1	0.4
⁶³ Cu	13.1	14.0	12.8	12.7	12.1	13.4	14.4
⁶⁶ Zn	107.9	89.8	70.8	103.0	79.7	91.2	78.3
⁷¹ Ga	16.8	14.6	14.5	15.7	14.3	16.0	15.3
⁸⁵ Rb	22.5	22.5	21.6	24.3	21.4	21.9	23.1
⁸⁶ Sr	246.0	229.0	235.0	216.0	217.0	221.0	245.0
⁸⁸ Sr	187.0	211.0	214.0	188.0	187.0	188.0	224.0
⁸⁹ Y	34.3	33.9	35.8	33.7	33.9	33.9	35.3
⁹⁰ Zr	118.5	113.1	118.1	109.6	114.3	112.3	118.5
⁹¹ Zr	120.8	112.4	117.2	105.0	114.2	103.1	107.0
⁹³ Nb	2.0	1.6	1.6	1.8	1.4	1.5	1.4
⁹⁵ Mo	2.0	1.8	2.1	1.5	2.1	2.1	1.6
¹³³ Cs	0.9	0.8	0.8	0.9	0.8	1.0	0.9
¹³⁸ Ba	346.0	341.0	356.5	319.0	350.0	336.0	351.0
¹³⁹ La	10.4	9.3	10.0	8.8	9.6	9.2	9.5
¹⁴⁰ Ce	27.1	26.9	27.1	26.0	25.9	26.0	26.5
¹⁴¹ Pr	3.4	3.5	3.7	3.2	3.4	3.2	3.7
¹⁴⁶ Nd	17.7	17.0	17.7	16.1	17.6	16.8	17.5
¹⁴⁷ Sm	5.0	4.9	5.1	4.1	4.9	4.5	4.6
¹⁵¹ Eu	1.7	1.5	1.5	1.4	1.6	1.4	1.4
¹⁵³ Eu	1.5	1.2	1.2	1.1	1.3	1.3	1.2

Table D.1 continued

Sample	C5 4 cm clast	5-6					
¹⁵⁷ Gd	6.1	5.9	5.2	4.3	4.7	5.2	5.8
¹⁵⁹ Tb	0.9	0.8	0.9	0.9	0.8	1.0	0.9
¹⁶³ Dy	5.8	5.9	6.9	6.3	6.7	6.2	6.4
¹⁶⁵ Ho	1.4	1.3	1.3	1.0	1.1	1.2	1.2
¹⁶⁶ Er	3.9	3.4	3.9	3.2	3.7	3.7	4.1
¹⁶⁹ Tm	0.6	0.6	0.5	0.6	0.6	0.6	0.7
¹⁷² Yb	4.1	3.8	4.1	3.5	3.5	3.7	4.4
¹⁷⁵ Lu	0.7	0.5	0.6	0.5	0.5	0.5	0.5
¹⁷⁸ Hf	3.2	3.0	3.5	3.1	3.3	3.4	3.0
¹⁸¹ Ta	0.1	0.1	0.1	0.1	0.2	0.1	0.1
¹⁸² W	1.2	0.3	0.3	0.7	0.5	0.9	0.3
²⁰⁸ Pb	5.1	4.3	4.0	4.9	3.9	4.2	3.9
²³² Th	1.5	1.4	1.6	1.6	1.4	1.4	1.6
²³⁸ U	0.6	0.6	0.7	0.7	0.7	0.6	0.6

Table D.1 continued

Sample	5-6					
⁴⁵ Sc	19.0	17.5	19.0	17.5	18.2	17.7
⁴⁷ Ti	5280.0	5000.0	5000.0	5080.0	4810.0	4880.0
⁵¹ V	28.0	28.8	28.2	28.4	29.1	29.0
⁵³ Cr	1.3	-1.3	2.2	0.2	-0.7	-0.4
⁵⁵ Mn	1525.0	1352.0	1460.0	1501.0	1340.0	1319.0
⁵⁹ Co	8.5	7.9	7.6	7.9	7.7	7.2
⁶⁰ Ni	0.4	0.7	2.2	0.4	1.2	0.1
⁶³ Cu	12.2	13.9	14.3	14.2	12.0	11.6
⁶⁶ Zn	65.3	94.6	77.3	94.1	96.0	91.3
⁷¹ Ga	15.3	15.2	15.1	15.6	15.9	15.2
⁸⁵ Rb	21.5	21.6	22.0	24.0	22.1	23.5
⁸⁶ Sr	270.0	230.0	242.0	236.0	243.0	240.0
⁸⁸ Sr	212.0	204.0	192.0	178.0	205.0	182.0
⁸⁹ Y	38.0	32.1	35.2	32.8	32.9	32.2
⁹⁰ Zr	130.3	103.4	115.4	117.1	115.7	108.9
⁹¹ Zr	128.6	96.3	118.7	110.6	101.6	107.2
⁹³ Nb	2.3	1.6	1.8	2.1	1.3	1.5
⁹⁵ Mo	1.6	1.6	1.8	1.7	2.5	1.7
¹³³ Cs	0.8	0.8	0.8	0.8	0.8	0.8
¹³⁸ Ba	370.0	319.3	353.0	352.0	330.0	322.0
¹³⁹ La	9.5	8.5	9.6	10.7	8.9	9.1
¹⁴⁰ Ce	27.4	25.4	26.2	27.6	25.4	25.3
¹⁴¹ Pr	3.8	3.2	3.7	3.7	3.6	3.2
¹⁴⁶ Nd	19.6	15.2	18.2	18.8	17.5	18.8
¹⁴⁷ Sm	5.5	4.2	5.0	5.1	4.8	5.2
¹⁵¹ Eu	1.6	1.3	1.4	1.4	1.2	1.3
¹⁵³ Eu	1.6	1.2	1.4	1.4	1.2	1.4

Table D.1 continued

Sample	5-6					
¹⁵⁷ Gd	5.5	5.5	5.5	5.2	4.4	5.7
¹⁵⁹ Tb	1.0	0.9	0.8	0.8	0.9	0.8
¹⁶³ Dy	6.7	5.8	6.9	6.6	5.6	5.7
¹⁶⁵ Ho	1.2	1.2	1.2	1.2	1.1	1.1
¹⁶⁶ Er	3.7	3.2	3.3	3.1	3.1	3.5
¹⁶⁹ Tm	0.6	0.6	0.6	0.6	0.5	0.6
¹⁷² Yb	3.7	3.3	4.0	4.0	4.0	3.5
¹⁷⁵ Lu	0.6	0.5	0.5	0.5	0.6	0.5
¹⁷⁸ Hf	3.2	2.9	3.3	2.9	2.7	3.1
¹⁸¹ Ta	0.1	0.1	0.1	0.0	0.0	0.1
¹⁸² W	0.5	0.4	1.1	2.6	0.4	0.3
²⁰⁸ Pb	4.0	4.2	4.5	4.5	4.2	4.7
²³² Th	1.7	1.4	1.4	1.6	1.5	1.4
²³⁸ U	0.6	0.6	0.6	0.6	0.7	0.6

Table D.1 continued

Sample	C5 30.5-31					
⁴⁵ Sc	20.9	12.9	45.2	17.0	18.9	22.3
⁴⁷ Ti	6900.0	1990.0	7090.0	3760.0	4440.0	3210.0
⁵¹ V	14.1	2.4	407.0	8.0	4.9	5.5
⁵³ Cr	171.0	-1.0	7.3	25.0	29.0	19.0
⁵⁵ Mn	1154.0	1261.0	2550.0	1061.0	990.0	1102.0
⁵⁹ Co	9.7	1.9	43.4	2.4	6.6	2.4
⁶⁰ Ni	2.4	4.3	9.4	3.0	2.0	5.0
⁶³ Cu	65.0	15.8	144.1	29.0	30.0	6.0
⁶⁶ Zn	93.0	32.0	86.4	35.0	37.3	46.8
⁷¹ Ga	17.4	15.8	21.7	19.7	16.4	12.3
⁸⁵ Rb	24.8	37.3	26.5	26.3	32.4	26.4
⁸⁶ Sr	106.0	330.0	388.0	139.0	118.0	150.0
⁸⁸ Sr	176.0	166.0	338.0	201.0	205.0	188.0
⁸⁹ Y	53.2	47.9	32.2	58.2	66.2	52.6
⁹⁰ Zr	162.0	199.0	108.8	192.0	212.0	194.0
⁹¹ Zr	166.0	188.0	98.0	180.0	206.0	162.0
⁹³ Nb	9.6	0.9	1.3	2.3	1.6	3.0
⁹⁵ Mo	3.6	5.0	2.4	5.0	3.2	4.5
¹³³ Cs	1.0	1.6	1.0	0.5	1.3	1.3
¹³⁸ Ba	492.0	551.0	421.0	508.0	537.0	503.0
¹³⁹ La	10.9	12.6	10.1	13.6	14.0	12.5
¹⁴⁰ Ce	27.6	28.4	23.8	29.6	36.5	30.0
¹⁴¹ Pr	5.4	5.3	3.7	5.3	5.0	4.7
¹⁴⁶ Nd	21.4	22.2	16.6	24.4	25.9	27.8
¹⁴⁷ Sm	7.1	7.4	5.7	10.1	12.7	5.6
¹⁵¹ Eu	2.0	1.2	1.5	1.6	1.4	1.4
¹⁵³ Eu	1.4	1.9	1.7	1.5	1.9	1.1

Table D.1 continued

Sample	C5 30.5-31					
¹⁵⁷ Gd	10.3	9.2	6.1	10.8	9.5	7.0
¹⁵⁹ Tb	1.3	1.5	0.8	1.6	1.7	1.5
¹⁶³ Dy	9.3	11.0	8.4	9.3	15.0	11.1
¹⁶⁵ Ho	2.0	1.6	1.5	1.9	3.1	2.1
¹⁶⁶ Er	5.8	5.1	4.6	9.0	7.4	6.3
¹⁶⁹ Tm	1.1	1.0	0.6	0.8	1.3	1.3
¹⁷² Yb	6.3	6.6	4.8	8.0	9.1	7.7
¹⁷⁵ Lu	0.8	1.1	0.7	1.4	1.3	1.1
¹⁷⁸ Hf	4.9	5.4	2.8	6.4	6.1	6.8
¹⁸¹ Ta	1.2	0.3	0.2	0.2	0.3	0.2
¹⁸² W	2.4	0.0	0.2	0.9	0.8	0.6
²⁰⁸ Pb		8.3	6.9	8.8	9.6	8.3
²³² Th	2.1	2.6	1.6	2.2	3.4	2.9
²³⁸ U	0.6	0.7	0.6	0.7	0.9	0.8

Table D.1 continued

Sample	C5 41-42	5-.45					
⁴⁵ Sc	20.5	29.8	50.4	48.8	69.0	33.1	31.4
⁴⁷ Ti	4620.0	6800.0	4974.0	6270.0	4310.0	6890.0	5940.0
⁵¹ V	16.8	305.6	498.0	518.0	427.0	407.0	175.0
⁵³ Cr	5.5	2.8	81.5	36.2	130.0	2.6	1.6
⁵⁵ Mn	1243.0	1627.0	1800.0	2016.0	1891.0	1628.0	1825.0
⁵⁹ Co	5.9	37.8	53.2	52.1	48.9	32.2	26.7
⁶⁰ Ni	-1.0	7.3	34.2	21.3	39.4	8.0	2.3
⁶³ Cu	18.7	151.9	171.2	231.9	92.8	90.5	61.7
⁶⁶ Zn	34.9	128.2	94.4	108.1	92.6	115.4	101.6
⁷¹ Ga	13.7	16.6	14.9	15.9	11.9	16.4	16.3
⁸⁵ Rb	29.8	21.8	3.6	5.5	6.1	13.6	15.9
⁸⁶ Sr	146.0	174.5	174.9	197.0	169.0	217.0	166.8
⁸⁸ Sr	169.0	240.7	163.0	186.0	168.0	215.0	187.0
⁸⁹ Y	58.4	25.8	11.0	16.5	14.8	22.9	34.4
⁹⁰ Zr	179.0	75.9	19.0	27.9	27.1	56.3	83.8
⁹¹ Zr	209.0	61.3	12.8	33.3	27.7	46.5	70.9
⁹³ Nb	2.2	1.5	0.3	0.2	0.2	0.9	0.8
⁹⁵ Mo	3.7	1.7	0.5	0.8	0.5	1.3	1.6
¹³³ Cs	1.5	0.9	0.2	0.3	0.3	0.5	0.8
¹³⁸ Ba	469.0	282.6	67.0	116.4	103.5	236.8	278.0
¹³⁹ La	14.2	6.2	1.4	2.5	3.0	5.4	5.3
¹⁴⁰ Ce	29.3	20.1	4.7	8.3	8.4	16.1	17.4
¹⁴¹ Pr	5.0	2.5	0.7	1.2	1.2	2.2	2.7
¹⁴⁶ Nd	25.5	13.3	3.5	6.1	5.5	11.0	13.9
¹⁴⁷ Sm	8.6	3.3	1.5	1.9	1.8	3.2	4.2
¹⁵¹ Eu	1.5	1.0	0.5	0.8	0.8	1.0	1.0
¹⁵³ Eu	1.6	1.2	0.5	0.8	0.6	1.0	1.2

Table D.1 continued

Sample	C5 41-42	5-.45					
¹⁵⁷ Gd	11.6	3.9	1.7	2.6	2.0	3.2	4.2
¹⁵⁹ Tb	1.5	0.6	0.2	0.3	0.4	0.5	0.7
¹⁶³ Dy	10.6	4.6	1.9	2.8	2.7	3.8	6.1
¹⁶⁵ Ho	2.5	0.8	0.4	0.6	0.5	0.8	1.0
¹⁶⁶ Er	7.2	2.7	1.1	1.5	1.1	2.1	3.3
¹⁶⁹ Tm	1.2	0.4	0.2	0.2	0.2	0.4	0.6
¹⁷² Yb	8.5	2.6	1.3	1.8	1.2	2.4	3.7
¹⁷⁵ Lu	1.0	0.4	0.2	0.2	0.2	0.4	0.6
¹⁷⁸ Hf	7.2	2.1	0.6	0.7	0.7	1.6	2.0
¹⁸¹ Ta	0.2	0.1	0.0	0.0	0.0	0.1	0.1
¹⁸² W	1.6	0.3	0.0	0.1	0.5	0.2	0.3
²⁰⁸ Pb	7.5	4.5	1.1	1.9	2.4	3.4	3.7
²³² Th	2.3	1.0	0.2	0.3	0.3	0.7	0.9
²³⁸ U	0.8	0.5	0.1	0.1	0.1	0.3	0.3

Table D.1 continued

Sample	5-.45			5-.47			
⁴⁵ Sc	16.6	17.2	14.5	51.5	18.4	49.5	23.8
⁴⁷ Ti	4320.0	3950.0	3650.0	4920.0	4000.0	4340.0	3620.0
⁵¹ V	19.7	12.1	8.1	438.0	5.9	355.7	271.7
⁵³ Cr	1.3	1.7	-0.2	38.7	-0.2	55.6	3.6
⁵⁵ Mn	1122.0	1051.0	1036.0	1751.0	1372.0	1648.0	945.0
⁵⁹ Co	7.4	5.8	3.7				
⁶⁰ Ni	0.0	0.1	-0.5	24.0	-0.7	30.2	8.1
⁶³ Cu	15.7	28.1	6.4	221.0	16.0	186.4	172.2
⁶⁶ Zn	86.8	93.4	74.5	84.4	71.3	72.7	56.7
⁷¹ Ga	13.8	15.0	13.8	15.4	18.1	14.3	10.2
⁸⁵ Rb	33.5	30.2	26.7	2.8	36.3	6.9	3.7
⁸⁶ Sr	129.0	118.0	97.0	180.7	197.0	209.2	108.3
⁸⁸ Sr	157.0	136.0	148.0				
⁸⁹ Y	42.7	44.8	36.2	14.1	65.4	14.8	13.4
⁹⁰ Zr	137.0	137.4	115.0	20.6	225.0	31.6	19.3
⁹¹ Zr	120.0	117.0	99.0				
⁹³ Nb	2.4	1.9	1.6	0.2	2.4	0.3	0.2
⁹⁵ Mo	3.4	2.6	1.9				
¹³³ Cs	1.3	1.3	1.1	0.2	1.8	0.3	0.3
¹³⁸ Ba	391.0	380.0	333.0	64.5	531.0	104.6	67.2
¹³⁹ La	9.8	9.1	9.2	1.4	14.1	3.3	1.4
¹⁴⁰ Ce	30.1	28.8	23.6	4.6	35.8	9.1	3.8
¹⁴¹ Pr	3.6	3.5	3.4	0.8	5.3	1.4	0.6
¹⁴⁶ Nd	19.1	17.5	16.0	4.6	26.4	6.2	3.5
¹⁴⁷ Sm	5.6	4.8	4.9	1.4	7.7	2.2	1.4
¹⁵¹ Eu	1.4	1.3	1.1	0.7	1.9	0.8	0.5
¹⁵³ Eu	1.2	1.4	1.1				

Table D.1 continued

Sample	5-.45			5-.47			
¹⁵⁷ Gd	5.0	4.5	4.7	1.9	10.6	2.5	1.8
¹⁵⁹ Tb	0.9	0.9	0.8	0.4	1.7	0.4	0.3
¹⁶³ Dy	7.4	7.2	5.8	2.5	9.9	2.9	2.1
¹⁶⁵ Ho	1.3	1.3	1.3	0.6	2.1	0.5	0.4
¹⁶⁶ Er	4.1	5.0	3.5	1.4	6.3	1.3	1.5
¹⁶⁹ Tm	0.6	0.7	0.5	0.3	1.1	0.3	0.3
¹⁷² Yb	3.9	4.6	3.7	1.6	8.2	1.6	1.4
¹⁷⁵ Lu	0.7	0.6	0.6	0.3	1.1	0.2	0.3
¹⁷⁸ Hf	3.6	3.4	3.1	0.8	6.4	1.1	0.7
¹⁸¹ Ta	0.2	0.1	0.1	0.0	0.2	0.1	0.0
¹⁸² W	0.2	0.2	0.2	0.0	0.6	0.2	0.1
²⁰⁸ Pb	6.6	6.4	5.5	1.3	9.1	1.6	1.6
²³² Th	1.6	1.4	1.2	0.1	2.8	0.4	0.2
²³⁸ U	0.7	0.3	0.3	0.1	1.0	0.1	0.1

Table D.1 continued

Sample	C7 loose top					
⁴⁵ Sc	37.2	31.3	27.5	74.9	34.7	25.7
⁴⁷ Ti	5250.0	6860.0	4740.0	9750.0	4170.0	2798.0
⁵¹ V	351.0	341.0	305.0	744.0	273.0	199.4
⁵³ Cr	10.4	4.6	6.8	26.3	1.5	6.7
⁵⁵ Mn	1650.0	1720.0	1241.0	2850.0	1464.0	926.0
⁵⁹ Co						
⁶⁰ Ni	14.8	7.2	7.0	22.2	5.8	10.4
⁶³ Cu	132.4	261.0	158.0	453.0	177.0	116.6
⁶⁶ Zn	79.1	120.0	66.7	147.7	38.0	19.1
⁷¹ Ga	12.4	18.2	12.7	23.3	15.2	10.5
⁸⁵ Rb	10.1	17.6	5.4	10.4	7.1	4.4
⁸⁶ Sr	153.5	216.0	153.0	285.0	155.2	141.8
⁸⁸ Sr						
⁸⁹ Y	22.0	28.3	14.2	30.1	21.0	11.6
⁹⁰ Zr	49.3	80.0	28.0	52.9	30.0	25.5
⁹¹ Zr						
⁹³ Nb	0.6	1.0	0.4	0.6	0.2	0.3
⁹⁵ Mo						
¹³³ Cs	0.4	0.8	0.3	0.5	0.6	0.1
¹³⁸ Ba	171.0	252.0	103.0	198.7	108.5	71.1
¹³⁹ La	5.0	6.9	2.8	5.4	1.9	2.6
¹⁴⁰ Ce	12.1	18.6	7.4	14.4	4.8	5.7
¹⁴¹ Pr	1.9	2.6	1.2	2.1	0.8	0.9
¹⁴⁶ Nd	10.0	13.8	5.9	12.0	4.7	4.8
¹⁴⁷ Sm	2.6	3.6	1.7	3.8	1.7	1.3
¹⁵¹ Eu	0.9	1.2	0.7	1.5	0.7	0.5
¹⁵³ Eu						

Table D.1 continued

Sample	C7 loose top					
¹⁵⁷ Gd	2.9	4.4	2.1	4.2	2.9	1.6
¹⁵⁹ Tb	0.6	0.7	0.4	0.7	0.5	0.3
¹⁶³ Dy	3.8	5.4	2.7	5.3	3.7	2.2
¹⁶⁵ Ho	0.8	0.9	0.4	1.0	0.6	0.4
¹⁶⁶ Er	2.4	3.3	1.6	3.2	2.1	1.2
¹⁶⁹ Tm	0.3	0.4	0.2	0.5	0.3	0.2
¹⁷² Yb	2.3	2.8	1.4	2.9	2.1	1.0
¹⁷⁵ Lu	0.4	0.5	0.2	0.5	0.4	0.2
¹⁷⁸ Hf	1.8	2.7	0.9	1.8	1.2	0.7
¹⁸¹ Ta	0.0	0.1	0.0	0.1	0.0	0.0
¹⁸² W	0.1	0.1	0.1	0.2	0.2	0.3
²⁰⁸ Pb	2.9	5.0	1.9	3.7	2.9	1.9
²³² Th	0.7	1.2	0.4	0.7	0.3	0.3
²³⁸ U	0.2	0.5	0.1	0.2	0.1	0.1

Table D.1 continued

Sample	7-6						
⁴⁵ Sc	40.2	36.6	37.2	86.6	80.2	88.2	96.7
⁴⁷ Ti	6720.0	6350.0	6780.0	15010.0	15170.0	12340.0	16860.0
⁵¹ V	368.0	323.7	345.3	819.0	863.0	828.0	958.0
⁵³ Cr	4.9	2.1	0.6	0.2	2.5	17.2	1.5
⁵⁵ Mn	2062.0	1668.0	1748.0	3760.0	3650.0	3770.0	3990.0
⁵⁹ Co							
⁶⁰ Ni	21.0	3.7	3.1	7.1	15.8	26.2	15.3
⁶³ Cu	131.8	98.2	98.4	249.0	194.7	316.0	207.0
⁶⁶ Zn	115.7	87.5	82.1	213.0	207.0	226.0	224.0
⁷¹ Ga	17.3	16.8	16.4	36.0	36.4	39.3	44.0
⁸⁵ Rb	12.0	12.4	12.2	28.0	30.7	26.7	26.6
⁸⁶ Sr	234.3	245.0	243.4	594.0	558.0	570.0	565.0
⁸⁸ Sr							
⁸⁹ Y	27.2	26.4	28.3	60.8	60.1	54.6	63.2
⁹⁰ Zr	68.3	65.8	68.9	150.6	147.8	130.6	141.0
⁹¹ Zr							
⁹³ Nb	0.8	0.7	0.7	1.8	1.5	1.5	1.8
⁹⁵ Mo							
¹³³ Cs	0.6	0.5	0.6	1.4	1.0	1.1	1.3
¹³⁸ Ba	226.1	225.1	231.0	504.0	569.0	476.0	479.0
¹³⁹ La	6.6	6.1	6.7	13.8	14.0	11.2	13.4
¹⁴⁰ Ce	15.6	14.4	15.2	33.1	33.7	28.3	32.7
¹⁴¹ Pr	2.3	2.5	2.2	5.1	5.0	4.7	4.8
¹⁴⁶ Nd	11.8	12.3	12.3	24.1	27.9	22.4	25.0
¹⁴⁷ Sm	3.5	3.5	3.8	7.6	9.9	7.2	8.3
¹⁵¹ Eu	1.1	1.1	1.2	2.8	2.5	2.3	2.9
¹⁵³ Eu							

Table D.1 continued

Sample	7-6						
¹⁵⁷ Gd	4.3	4.2	4.7	9.4	11.0	8.9	10.3
¹⁵⁹ Tb	0.8	0.8	0.7	1.6	1.7	1.5	1.6
¹⁶³ Dy	4.6	4.9	4.8	10.4	11.0	9.3	12.0
¹⁶⁵ Ho	0.9	1.0	0.8	2.2	2.2	1.8	2.3
¹⁶⁶ Er	3.4	3.1	3.0	7.2	6.5	5.8	6.8
¹⁶⁹ Tm	0.4	0.5	0.6	0.9	1.0	1.1	1.0
¹⁷² Yb	2.8	2.9	3.1	6.0	6.6	5.9	6.8
¹⁷⁵ Lu	0.5	0.5	0.4	1.0	0.9	0.9	1.1
¹⁷⁸ Hf	2.2	2.2	2.3	5.1	4.8	4.3	4.7
¹⁸¹ Ta	0.0	0.1	0.0	0.0	0.1	0.1	0.1
¹⁸² W	0.2	0.1	0.1	0.1	0.7	0.5	0.6
²⁰⁸ Pb	3.4	3.5	3.7	7.7	8.0	7.3	8.4
²³² Th	1.0	1.0	1.0	2.0	2.1	1.7	1.6
²³⁸ U	0.3	0.4	0.4	0.6	0.8	0.7	0.8

Table D.1 continued

Sample	7-.6					C7 loose base	
⁴⁵ Sc	43.6	37.1	34.4	57.2	76.8	40.2	63.3
⁴⁷ Ti	12190.0	6890.0	4600.0	10740.0	14980.0	6780.0	6760.0
⁵¹ V	578.0	354.0	335.0	598.0	737.0	410.0	492.0
⁵³ Cr	15.0	-0.2	11.7	2.7	-4.7	6.0	24.0
⁵⁵ Mn	2000.0	1724.0	1252.0	2705.0	3770.0	1795.0	2125.0
⁵⁹ Co							
⁶⁰ Ni	4.7	3.4	8.7	4.5	6.8	6.5	17.5
⁶³ Cu	176.0	101.3	184.0	199.7	242.0	147.3	164.2
⁶⁶ Zn	168.0	105.3	77.5	169.0	227.0	112.7	105.0
⁷¹ Ga	24.1	17.2	23.8	27.3	36.8	17.4	15.9
⁸⁵ Rb	16.9	13.4	7.0	20.5	29.8	7.9	6.6
⁸⁶ Sr	272.0	242.0	358.0	394.0	541.0	211.1	162.6
⁸⁸ Sr							
⁸⁹ Y	44.9	26.0	16.6	39.1	56.4	27.5	26.9
⁹⁰ Zr	129.6	66.9	36.0	100.0	142.4	54.6	46.9
⁹¹ Zr							
⁹³ Nb	1.8	0.8	0.4	1.1	1.9	0.7	0.6
⁹⁵ Mo							
¹³³ Cs	1.2	0.6	0.3	0.9	1.2	0.5	0.3
¹³⁸ Ba	405.0	239.0	147.0	379.0	526.0	150.7	120.9
¹³⁹ La	11.0	6.2	3.7	9.9	15.0	4.4	3.5
¹⁴⁰ Ce	27.6	16.3	9.3	25.3	35.4	12.0	9.7
¹⁴¹ Pr	4.4	2.4	1.4	3.6	5.0	1.8	1.6
¹⁴⁶ Nd	20.4	11.9	6.3	19.6	28.4	10.6	8.5
¹⁴⁷ Sm	5.8	3.3	2.2	5.9	8.2	3.6	3.5
¹⁵¹ Eu	1.7	1.4	0.8	2.0	2.4	1.1	1.0
¹⁵³ Eu							

Table D.1 continued

Sample	7-.6					C7 loose base	
¹⁵⁷ Gd	7.1	4.0	2.9	6.1	9.1	3.7	4.2
¹⁵⁹ Tb	1.3	0.7	0.4	1.1	1.6	0.8	0.6
¹⁶³ Dy	8.2	4.9	2.6	6.9	9.8	5.1	4.2
¹⁶⁵ Ho	1.7	0.9	0.6	1.5	2.3	1.0	1.0
¹⁶⁶ Er	5.0	2.8	1.8	4.5	6.3	3.1	2.6
¹⁶⁹ Tm	0.9	0.5	0.3	0.7	1.1	0.4	0.5
¹⁷² Yb	5.2	2.8	1.8	4.6	6.0	2.8	3.2
¹⁷⁵ Lu	0.7	0.4	0.3	0.7	0.9	0.3	0.5
¹⁷⁸ Hf	4.5	2.3	1.5	3.3	5.3	1.9	1.5
¹⁸¹ Ta	0.1	0.1	0.1	0.1	0.1	0.0	0.0
¹⁸² W	0.3	0.2	0.2	0.1	0.4	0.1	0.1
²⁰⁸ Pb	6.0	3.6	2.2	5.7	8.1	2.7	2.2
²³² Th	1.8	0.9	0.4	1.5	2.1	0.5	0.5
²³⁸ U	2.0	0.4	0.2	0.5	0.8	0.2	0.2

Table D.1 continued

Sample	C7 loose base				C8 7-7.5		
⁴⁵ Sc	40.1	53.2	39.6	57.0	34.0	52.0	27.9
⁴⁷ Ti	6200.0	6820.0	6220.0	9270.0	7100.0	9600.0	5770.0
⁵¹ V	308.0	402.0	309.0	284.0	296.0	595.0	118.4
⁵³ Cr	-1.9	1.7	6.4	0.6	4.8	16.6	-0.1
⁵⁵ Mn	1754.0	1965.0	1603.0	2382.0	1651.0	2090.0	1385.0
⁵⁹ Co					23.4	45.0	14.2
⁶⁰ Ni	3.4	4.9	4.0	1.4	1.4	15.7	0.7
⁶³ Cu	82.4	88.3	183.0	78.2	59.5	144.9	46.1
⁶⁶ Zn	132.3	110.0	102.6	158.7	127.0	122.9	111.9
⁷¹ Ga	19.5	16.5	19.0	24.0	15.2	18.7	12.8
⁸⁵ Rb	5.8	5.7	13.3	9.6	6.2	6.2	8.4
⁸⁶ Sr	169.8	157.9	181.0	255.7	139.0	214.0	122.0
⁸⁸ Sr					149.0	184.0	138.0
⁸⁹ Y	24.8	25.7	22.8	44.6	18.8	25.5	24.8
⁹⁰ Zr	44.8	39.9	46.4	80.5	39.8	50.5	58.2
⁹¹ Zr					39.2	44.3	54.6
⁹³ Nb	0.5	0.5	0.7	0.8	0.5	0.7	0.8
⁹⁵ Mo					1.2	1.2	1.6
¹³³ Cs	0.4	0.4	0.6	0.8	0.4	0.4	0.5
¹³⁸ Ba	129.4	113.0	130.2	207.9	131.5	159.7	166.0
¹³⁹ La	2.8	3.3	3.2	5.3	3.3	3.9	4.1
¹⁴⁰ Ce	8.1	8.0	8.0	13.9	9.7	10.6	11.3
¹⁴¹ Pr	1.3	1.3	1.3	2.6	1.3	1.7	1.8
¹⁴⁶ Nd	7.7	7.4	6.9	12.8	6.6	8.4	9.0
¹⁴⁷ Sm	3.1	2.9	2.8	4.3	2.2	3.2	3.2
¹⁵¹ Eu	1.1	1.0	0.8	1.6	0.8	1.0	0.9
¹⁵³ Eu	3.5	3.4	3.9	6.0	1.1	1.3	1.0

Table D.1 continued

Sample	C7 loose base				C8 7-7.5		
¹⁵⁷ Gd	0.7	0.8	0.6	1.0	3.2	3.2	3.0
¹⁵⁹ Tb	4.2	5.4	4.3	7.2	0.5	0.5	0.7
¹⁶³ Dy	1.0	0.9	0.9	1.6	3.7	3.6	4.4
¹⁶⁵ Ho	2.6	2.7	2.4	4.9	0.8	1.1	0.8
¹⁶⁶ Er	0.4	0.5	0.4	0.7	2.6	2.8	2.9
¹⁶⁹ Tm	3.1	2.6	2.6	4.6	0.4	0.4	0.4
¹⁷² Yb	0.4	0.5	0.4	0.8	2.1	2.4	3.4
¹⁷⁵ Lu	1.6	1.6	1.5	2.5	0.3	0.4	0.4
¹⁷⁸ Hf	0.0	0.0	0.0	0.1	0.9	1.5	1.4
¹⁸¹ Ta	0.5	0.1	0.2	0.2	0.1	0.0	0.1
¹⁸² W	3.1	2.2	3.0	4.1	0.1	0.2	0.1
²⁰⁸ Pb	0.3	0.4	0.4	0.7	2.6	2.6	3.7
²³² Th	0.1	0.1	0.2	0.3	0.4	0.6	0.5
²³⁸ U	0.18	0.153	0.127	0.099	0.2	0.2	0.3

Table D.1 continued

Sample	C8 7-7.5						
⁴⁵ Sc	35.7	61.2	37.9	35.7	29.0	47.7	36.3
⁴⁷ Ti	6250.0	10100.0	7520.0	6900.0	6230.0	7940.0	6330.0
⁵¹ V	363.0	671.0	287.7	325.0	245.5	335.0	214.0
⁵³ Cr	3.0	17.1	3.5	2.2	-0.2	-1.4	4.2
⁵⁵ Mn	1386.0	2047.0	1734.0	1649.0	1212.0	1948.0	1630.0
⁵⁹ Co	31.9	42.7	25.3	24.3	21.8	26.2	21.2
⁶⁰ Ni	8.4	11.2	1.2	0.7	5.5	0.2	0.6
⁶³ Cu	105.6	184.0	54.8	82.4	100.0	35.3	39.5
⁶⁶ Zn	118.9	109.9	140.0	127.3	120.0	104.3	124.0
⁷¹ Ga	14.6	15.6	16.9	16.6	13.1	15.7	15.8
⁸⁵ Rb	9.7	6.5	7.2	5.8	13.6	4.8	5.4
⁸⁶ Sr	136.0	176.0	153.0	158.0	120.8	189.0	149.0
⁸⁸ Sr	132.0	192.0	149.0	151.0	131.0	221.0	150.0
⁸⁹ Y	19.8	24.6	22.3	19.3	22.9	26.4	20.8
⁹⁰ Zr	51.8	49.5	47.6	33.6	70.3	48.6	40.2
⁹¹ Zr	44.4	42.5	37.5	32.6	60.3	39.8	33.3
⁹³ Nb	0.7	0.6	0.7	0.5	0.6	0.5	0.6
⁹⁵ Mo	1.5	0.4	1.8	0.8	1.6	1.1	1.1
¹³³ Cs	1.0	0.4	0.4	0.4	1.3	0.5	0.4
¹³⁸ Ba	223.0	155.9	148.9	124.0	257.0	150.0	126.0
¹³⁹ La	3.6	4.5	3.9	2.2	4.0	3.5	2.5
¹⁴⁰ Ce	9.3	11.6	11.4	8.0	11.2	8.0	7.7
¹⁴¹ Pr	1.3	1.7	1.6	1.2	1.5	1.4	1.1
¹⁴⁶ Nd	6.1	8.1	8.4	5.1	8.4	8.7	6.2
¹⁴⁷ Sm	2.7	4.0	2.7	2.0	2.5	2.9	1.8
¹⁵¹ Eu	1.0	1.1	0.9	0.9	0.9	1.2	0.9
¹⁵³ Eu	0.7	1.2	1.1	0.9	1.0	1.3	0.9

Table D.1 continued

Sample	C8 7-7.5						
¹⁵⁷ Gd	2.8	4.2	3.6	2.6	3.2	3.5	3.5
¹⁵⁹ Tb	0.7	0.6	0.5	0.6	0.6	0.6	0.4
¹⁶³ Dy	3.4	4.3	3.8	3.2	2.8	5.3	4.1
¹⁶⁵ Ho	0.7	1.0	0.9	0.7	0.9	1.1	0.8
¹⁶⁶ Er	2.5	3.4	3.2	2.2	3.1	3.4	2.8
¹⁶⁹ Tm	0.4	0.5	0.3	0.3	0.5	0.4	0.4
¹⁷² Yb	2.6	3.8	3.2	2.7	2.1	3.3	2.4
¹⁷⁵ Lu	0.5	0.4	0.4	0.3	0.4	0.4	0.5
¹⁷⁸ Hf	1.5	1.3	1.3	1.0	1.5	1.4	1.0
¹⁸¹ Ta	0.0	0.0	0.0	0.0	0.1	0.1	0.0
¹⁸² W	0.4	0.3	0.5	0.3	0.8	0.3	0.3
²⁰⁸ Pb	4.3	2.4	3.1	2.5	6.1	3.4	2.8
²³² Th	0.6	0.4	0.4	0.2	0.8	0.3	0.3
²³⁸ U	0.3	0.2	0.2	0.2	0.3	0.2	0.2

Table D.1 continued

Sample	C8 7-7.5				C8 9.5-10.5		
⁴⁵ Sc	83.1	33.6	13.5	34.0	38.1	47.1	42.5
⁴⁷ Ti	6560.0	6350.0	3533.0	6410.0	4880.0	7920.0	7040.0
⁵¹ V	428.0	267.2	26.4	348.0	150.8	384.0	364.5
⁵³ Cr	5.0	1.1	1.0	7.8	3.6	-1.4	1.1
⁵⁵ Mn	2274.0	1591.0	1081.0	1392.0	1484.0	1887.0	1826.0
⁵⁹ Co	41.0	20.9	8.1	31.5			
⁶⁰ Ni	4.5	1.5	1.0	10.6	1.0	2.3	2.9
⁶³ Cu	53.3	67.3	8.7	109.5	68.8	153.0	127.8
⁶⁶ Zn	129.9	108.2	70.7	97.3	103.0	158.0	114.3
⁷¹ Ga	15.8	13.0	15.1	13.8	15.8	19.6	17.3
⁸⁵ Rb	4.0	4.7	15.1	10.5	5.5	7.8	6.9
⁸⁶ Sr	132.0	141.0	134.0	136.0	154.1	205.0	192.2
⁸⁸ Sr	124.0	131.0	71.0	135.0			
⁸⁹ Y	20.6	19.1	28.3	20.2	26.8	34.0	27.4
⁹⁰ Zr	28.7	35.2	80.1	48.7	50.2	62.4	52.6
⁹¹ Zr	24.3	31.6	85.0	49.6			
⁹³ Nb	0.4	0.5	0.7	0.3	0.5	0.4	0.6
⁹⁵ Mo	1.2	1.2	2.5	2.3			
¹³³ Cs	0.3	0.3	1.6	0.8	0.4	0.4	0.4
¹³⁸ Ba	91.7	113.3	378.0	226.6	135.5	154.0	138.4
¹³⁹ La	1.7	2.2	5.9	3.0	2.8	4.7	3.7
¹⁴⁰ Ce	5.9	7.2	13.5	9.4	8.1	11.8	10.6
¹⁴¹ Pr	1.0	1.2	1.9	1.3	1.4	2.0	1.9
¹⁴⁶ Nd	4.2	4.9	10.7	6.5	7.5	11.0	8.9
¹⁴⁷ Sm	1.5	2.3	4.4	2.0	3.1	3.7	3.3
¹⁵¹ Eu	0.8	0.8	1.0	0.9	0.9	1.3	1.1
¹⁵³ Eu	1.0	0.9	1.2	0.7			

Table D.1 continued

Sample	C8 7-7.5				C8 9.5-10.5		
¹⁵⁷ Gd	2.7	2.7	4.6	2.2	3.7	5.0	4.1
¹⁵⁹ Tb	0.5	0.6	0.7	0.5	0.6	0.8	0.6
¹⁶³ Dy	3.1	3.4	4.7	3.3	4.4	5.1	4.6
¹⁶⁵ Ho	0.8	0.7	1.0	0.7	1.0	1.2	1.0
¹⁶⁶ Er	2.7	2.6	3.4	2.5	2.9	3.4	2.9
¹⁶⁹ Tm	0.4	0.3	0.5	0.3	0.5	0.5	0.4
¹⁷² Yb	2.5	2.3	4.0	2.4	2.5	3.3	3.0
¹⁷⁵ Lu	0.4	0.3	0.5	0.2	0.4	0.5	0.5
¹⁷⁸ Hf	1.0	1.3	2.5	1.4	1.4	2.0	1.8
¹⁸¹ Ta	0.0	0.0	0.1	0.0	0.0	0.1	0.0
¹⁸² W	0.4	0.3	0.7	0.4	0.3	0.0	0.2
²⁰⁸ Pb	19.0	2.5	6.2	3.6	3.8	3.2	2.5
²³² Th	0.2	0.3	1.0	0.6	0.4	0.6	0.5
²³⁸ U	0.1	0.2	0.5	0.3	0.1	0.2	0.2

Table D.1 continued

Sample	C8 9.5-10.5			C9 loose			
⁴⁵ Sc	29.6	39.6	43.0	29.5	40.9	36.0	44.3
⁴⁷ Ti	4220.0	5440.0	7050.0	4840.0	5040.0	5150.0	6800.0
⁵¹ V	218.9	292.0	352.6	30.1	31.8	344.0	417.0
⁵³ Cr	-1.9	-2.1	-1.2	-0.2	-0.8	10.4	7.6
⁵⁵ Mn	1184.0	1600.0	1833.0	1471.0	1810.0	1386.0	1638.0
⁵⁹ Co							
⁶⁰ Ni	2.0	1.5	3.7	-0.1	1.3	15.5	10.5
⁶³ Cu	73.7	87.0	100.2	37.7	9.0	88.9	240.0
⁶⁶ Zn	76.6	93.8	113.9	89.2	121.0	93.0	93.0
⁷¹ Ga	15.6	16.5	16.8	14.1	18.4	9.8	16.5
⁸⁵ Rb	4.1	4.3	7.2	8.7	14.0	4.6	7.2
⁸⁶ Sr	176.4	168.8	178.9	176.0	202.0	103.6	183.0
⁸⁸ Sr							
⁸⁹ Y	16.9	22.6	26.4	44.4	67.9	19.4	35.8
⁹⁰ Zr	29.1	35.6	52.4	69.4	119.8	41.3	60.7
⁹¹ Zr							
⁹³ Nb	0.3	0.5	0.6	0.6	1.2	0.3	0.3
⁹⁵ Mo							
¹³³ Cs	0.2	0.3	0.4	0.9	1.2	0.2	0.6
¹³⁸ Ba	89.0	106.9	152.5	178.2	314.0	92.6	149.0
¹³⁹ La	2.0	2.2	4.2	3.8	7.0	3.0	3.8
¹⁴⁰ Ce	6.2	6.4	11.3	9.9	17.3	6.6	8.6
¹⁴¹ Pr	0.8	1.0	1.8	2.0	3.1	1.3	1.4
¹⁴⁶ Nd	5.4	6.3	9.4	11.9	17.1	6.6	9.3
¹⁴⁷ Sm	1.7	2.3	3.2	4.8	6.9	2.1	3.5
¹⁵¹ Eu	0.6	0.8	1.0	1.5	1.9	0.9	0.9
¹⁵³ Eu							

Table D.1 continued

Sample	C8 9.5-10.5			C9 loose			
¹⁵⁷ Gd	2.1	2.7	4.0	5.9	8.0	3.1	4.2
¹⁵⁹ Tb	0.4	0.5	0.8	1.0	1.3	0.5	0.9
¹⁶³ Dy	2.9	4.3	5.2	8.2	10.1	3.2	5.0
¹⁶⁵ Ho	0.6	0.9	1.0	1.7	2.6	0.8	1.5
¹⁶⁶ Er	2.0	2.5	3.2	4.7	7.4	2.6	4.1
¹⁶⁹ Tm	0.3	0.4	0.4	0.6	1.0	0.3	0.4
¹⁷² Yb	1.8	2.7	2.8	5.2	7.9	2.4	4.2
¹⁷⁵ Lu	0.3	0.4	0.4	0.7	1.3	0.3	0.6
¹⁷⁸ Hf	0.9	1.2	1.7	2.6	3.6	1.1	2.2
¹⁸¹ Ta	0.0	0.0	0.0	0.1	0.1	0.0	0.0
¹⁸² W	0.0	0.1	0.1	0.7	0.4	0.1	0.5
²⁰⁸ Pb	1.7	2.3	3.1	3.9	4.6	1.8	3.2
²³² Th	0.3	0.2	0.5	0.5	0.9	0.3	0.6
²³⁸ U	0.1	0.1	0.2	0.1	0.4	0.1	0.1

Table D.1 continued

Sample	C10 6-7						
⁴⁵ Sc	21.0	22.7	19.1	21.8	21.2	28.6	26.5
⁴⁷ Ti	3790.0	3510.0	2620.0	3320.0	3400.0	3590.0	3470.0
⁵¹ V	84.5	37.9	23.2	31.1	43.1	41.4	36.1
⁵³ Cr	1.4	5.5	1.1	0.8	13.0	5.2	-4.8
⁵⁵ Mn	1230.0	1329.0	982.0	1310.0	1480.0	1419.0	1339.0
⁵⁹ Co	13.5	5.9	4.3	6.7	7.4	7.8	6.4
⁶⁰ Ni	2.5	0.0	-0.4	3.4	12.2	1.4	-0.8
⁶³ Cu	47.0	23.0	14.9	20.1	31.2	16.3	17.8
⁶⁶ Zn	85.9	60.6	76.9	118.0	104.0	40.6	55.6
⁷¹ Ga	13.1	13.5	12.3	12.9	15.7	13.1	11.9
⁸⁵ Rb	11.1	9.4	7.9	11.5	10.7	9.8	10.0
⁸⁶ Sr	117.0	138.9	127.0	134.0	136.0	147.0	145.0
⁸⁸ Sr	128.0	158.0	142.0	114.0	191.0	189.0	167.0
⁸⁹ Y	30.8	36.4	25.9	29.5	33.1	45.8	39.1
⁹⁰ Zr	69.1	73.0	50.6	68.0	70.9	88.7	76.6
⁹¹ Zr	72.4	73.0	57.1	61.0	67.0	82.0	76.0
⁹³ Nb	1.2	1.2	0.5	0.4	0.7	1.0	0.6
⁹⁵ Mo	1.9	1.8	1.5	2.2	2.5	2.7	1.3
¹³³ Cs	0.8	0.9	0.8	0.8	0.8	0.8	0.9
¹³⁸ Ba	222.0	238.0	162.0	195.0	233.0	232.0	224.0
¹³⁹ La	3.8	4.6	3.0	3.1	4.2	4.5	4.9
¹⁴⁰ Ce	12.1	11.9	8.6	9.2	12.9	10.5	11.9
¹⁴¹ Pr	1.8	2.1	1.3	1.6	1.7	2.2	2.0
¹⁴⁶ Nd	10.9	13.7	6.8	8.9	11.8	11.9	10.3
¹⁴⁷ Sm	3.7	3.3	2.7	3.6	4.5	3.9	4.0
¹⁵¹ Eu	0.9	1.2	0.9	1.1	1.2	1.2	1.3
¹⁵³ Eu	1.0	1.4	0.9	0.8	1.1	1.2	0.9

Table D.1 continued

Sample	C10 6-7						
¹⁵⁷ Gd	3.8	5.2	3.6	4.4	4.1	6.8	3.9
¹⁵⁹ Tb	0.9	1.0	0.6	1.0	1.0	1.0	1.0
¹⁶³ Dy	6.0	6.0	5.5	5.1	6.5	7.5	6.2
¹⁶⁵ Ho	1.3	1.2	0.9	1.2	1.5	1.9	1.6
¹⁶⁶ Er	3.8	3.6	3.4	3.8	3.9	5.5	4.4
¹⁶⁹ Tm	0.6	0.6	0.4	0.7	0.6	0.9	0.7
¹⁷² Yb	4.0	3.9	3.5	4.2	4.2	6.7	5.7
¹⁷⁵ Lu	0.5	0.5	0.5	0.5	0.5	0.8	0.9
¹⁷⁸ Hf	2.4	2.0	1.7	1.5	1.9	2.3	3.1
¹⁸¹ Ta	0.0	0.1	0.1	0.1	0.0	0.1	0.1
¹⁸² W	0.3	0.5	0.3	1.5	1.3	0.8	0.5
²⁰⁸ Pb	5.6	3.6	2.9	8.9	4.6	3.8	3.6
²³² Th	0.5	0.7	0.4	0.6	0.4	0.7	0.7
²³⁸ U	0.3	0.3	0.3	0.3	0.3	0.3	0.2

Table D.1 continued

Sample	C10 6-7	C10 7-8					
⁴⁵ Sc	22.4	21.7	58.0	21.9	22.4	21.7	14.7
⁴⁷ Ti	3420.0	3200.0	832.0	3070.0	3160.0	3350.0	1698.0
⁵¹ V	25.3	30.7	722.0	40.6	34.2	47.6	2.7
⁵³ Cr	5.3	-6.3	9.1	6.2	6.1	3.9	-0.7
⁵⁵ Mn	1310.0	1263.0	2980.0	1403.0	1550.0	1610.0	931.0
⁵⁹ Co	6.0	5.7	1.1	7.8	6.9	7.3	1.5
⁶⁰ Ni	0.4	3.1	1.5	0.5	0.9	-1.0	0.6
⁶³ Cu	12.4	52.0	4.7	29.7	30.3	26.8	14.0
⁶⁶ Zn	80.0	119.0	17.4	83.3	91.0	106.0	48.9
⁷¹ Ga	13.0	13.0	41.9	13.6	13.2	14.2	7.5
⁸⁵ Rb	11.6	11.6	0.1	9.9	12.0	9.9	6.5
⁸⁶ Sr	155.0	140.0	589.0	137.0	187.0	169.0	105.0
⁸⁸ Sr	173.0	111.0	450.0	129.0	125.0	131.0	85.0
⁸⁹ Y	34.6	30.7	42.0	29.0	33.9	31.2	24.7
⁹⁰ Zr	79.0	54.9	4.2	52.4	67.0	60.8	46.6
⁹¹ Zr	77.0	53.0	5.2	62.3	72.0	65.0	47.4
⁹³ Nb	0.7	0.7	0.0	0.2	0.2	0.5	0.5
⁹⁵ Mo	2.6	1.0	0.4	2.1	3.0	2.7	1.0
¹³³ Cs	0.9	0.7	0.0	0.8	1.1	0.8	0.6
¹³⁸ Ba	228.0	207.0	19.1	195.0	259.0	223.0	153.1
¹³⁹ La	4.3	3.4	10.0	3.3	4.3	4.3	2.7
¹⁴⁰ Ce	12.5	11.2	34.1	10.6	13.1	12.8	8.1
¹⁴¹ Pr	1.9	1.6	4.9	1.4	2.1	1.8	1.3
¹⁴⁶ Nd	11.2	8.3	25.4	8.7	10.9	10.5	8.0
¹⁴⁷ Sm	2.6	2.9	7.4	3.4	3.1	3.1	2.9
¹⁵¹ Eu	1.5	0.7	1.8	1.1	1.1	1.0	0.6
¹⁵³ Eu	1.1	1.2	1.5	1.0	1.2	1.0	0.7

Table D.1 continued

Sample	C10 6-7	C10 7-8					
¹⁵⁷ Gd	4.5	4.2	6.1	4.1	3.8	4.4	3.0
¹⁵⁹ Tb	0.8	0.6	1.2	0.7	0.9	0.9	0.5
¹⁶³ Dy	5.9	5.1	8.2	5.4	6.9	6.0	4.6
¹⁶⁵ Ho	1.4	1.2	1.5	1.1	1.3	1.4	0.8
¹⁶⁶ Er	4.0	4.0	4.4	2.9	3.8	3.5	2.6
¹⁶⁹ Tm	0.6	0.6	0.7	0.5	0.5	0.4	0.4
¹⁷² Yb	4.2	2.4	4.0	3.3	3.3	3.4	3.3
¹⁷⁵ Lu	0.5	0.4	0.7	0.6	0.6	0.6	0.4
¹⁷⁸ Hf	2.9	2.0	0.3	2.0	3.6	1.7	1.8
¹⁸¹ Ta	0.1	0.0	0.0	0.0	0.0	0.0	0.0
¹⁸² W	1.1	1.1	0.3	0.3	0.8	0.4	0.2
²⁰⁸ Pb	5.7	4.7	12.2	3.2	4.8	3.9	2.6
²³² Th	0.6	0.4	0.0	0.5	0.7	0.5	0.4
²³⁸ U	0.3	0.3	0.1	0.2	0.3	0.2	0.2

Table D.1 continued

Sample	C10 7-8	13-.9				C13 11-12	
⁴⁵ Sc	29.0	41.3	44.3	42.3	31.4	52.2	37.9
⁴⁷ Ti	6430.0	6540.0	6830.0	7600.0	6280.0	6140.0	6750.0
⁵¹ V	247.0	421.0	430.0	379.4	241.0	421.0	318.8
⁵³ Cr	0.0	6.5	11.8	-0.1	6.8	36.2	-0.9
⁵⁵ Mn	1920.0	1684.0	1712.0	1707.0	1459.0	1822.0	1692.0
⁵⁹ Co	34.4						
⁶⁰ Ni	7.3	13.3	7.9	4.5	4.7	23.6	1.6
⁶³ Cu	211.0	194.8	172.9	84.7	67.7	231.0	100.7
⁶⁶ Zn	127.0	136.7	93.4	108.1	109.3	96.6	97.2
⁷¹ Ga	16.6	18.7	16.7	17.1	16.1	16.1	16.9
⁸⁵ Rb	21.8	9.4	8.4	9.6	15.4	8.4	14.0
⁸⁶ Sr	194.0	230.3	234.7	241.8	245.6	255.9	260.8
⁸⁸ Sr	194.0						
⁸⁹ Y	23.7	22.4	23.9	30.6	33.0	24.7	31.4
⁹⁰ Zr	70.0	49.3	49.6	66.2	89.1	54.2	80.3
⁹¹ Zr	74.0						
⁹³ Nb	1.4	0.6	0.5	0.7	1.0	0.7	0.9
⁹⁵ Mo	1.0						
¹³³ Cs	0.9	0.4	0.3	0.4	0.6	0.3	0.6
¹³⁸ Ba	345.0	158.7	156.0	186.9	299.0	149.5	250.0
¹³⁹ La	6.6	4.0	4.5	5.5	8.0	5.2	7.1
¹⁴⁰ Ce	21.5	10.7	10.5	12.1	19.5	10.9	16.0
¹⁴¹ Pr	3.3	1.6	1.7	2.0	3.2	1.9	2.5
¹⁴⁶ Nd	14.9	9.2	9.0	11.7	16.3	10.7	13.8
¹⁴⁷ Sm	4.0	2.9	2.8	3.4	4.7	2.7	4.8
¹⁵¹ Eu	1.1	1.1	1.0	1.2	1.4	1.2	1.3
¹⁵³ Eu	1.4						

Table D.1 continued

Sample	C10 7-8	13-.9				C13 11-12	
¹⁵⁷ Gd	3.7	3.9	3.3	4.4	5.1	3.6	3.9
¹⁵⁹ Tb	0.7	0.6	0.6	0.8	0.9	0.7	0.8
¹⁶³ Dy	4.9	4.0	4.6	5.3	5.8	4.5	5.5
¹⁶⁵ Ho	0.9	0.9	0.9	1.1	1.3	1.0	1.1
¹⁶⁶ Er	3.5	2.7	2.6	3.3	3.5	2.6	3.6
¹⁶⁹ Tm	0.5	0.4	0.4	0.5	0.5	0.4	0.5
¹⁷² Yb	3.4	2.4	2.3	3.0	3.4	2.3	3.4
¹⁷⁵ Lu	0.5	0.4	0.4	0.5	0.6	0.4	0.5
¹⁷⁸ Hf	2.3	1.3	1.5	2.1	2.7	1.4	2.3
¹⁸¹ Ta	0.1	0.0	0.0	0.0	0.1	0.0	0.1
¹⁸² W	0.1	0.3	0.1	0.1	0.8	0.0	0.1
²⁰⁸ Pb	4.9	3.8	2.4	2.9	5.0	2.5	3.4
²³² Th	1.0	0.7	0.6	0.8	1.2	0.8	1.2
²³⁸ U	0.6	0.2	0.2	0.3	0.4	0.2	0.4

Table D.1 continued

Sample	C13 11-12				13-13		
⁴⁵ Sc	38.2	40.3	21.3	50.0	45.5	29.7	63.1
⁴⁷ Ti	3920.0	5470.0	4530.0	5230.0	5980.0	3850.0	9160.0
⁵¹ V	278.9	250.0	7.7	400.0	252.0	189.4	535.0
⁵³ Cr	41.6	-0.4	-2.0	6.0	2.7	-0.5	0.6
⁵⁵ Mn	1173.0	1650.0	1270.0	1574.0	1900.0	1245.0	2560.0
⁵⁹ Co							
⁶⁰ Ni	18.2	0.8	-0.3	4.0	5.6	3.8	7.9
⁶³ Cu	194.0	25.8	11.8	209.8	315.0	58.6	114.0
⁶⁶ Zn	55.1	92.0	94.0	85.5	95.0	72.9	86.0
⁷¹ Ga	11.0	17.5	15.9	13.2	19.2	14.4	23.5
⁸⁵ Rb	5.0	5.7	32.3	4.4	7.0	3.1	8.4
⁸⁶ Sr	163.8	220.0	191.0	159.5	168.0	123.2	181.0
⁸⁸ Sr							
⁸⁹ Y	15.7	25.9	68.4	21.3	39.6	20.6	51.3
⁹⁰ Zr	29.9	43.6	217.0	35.8	57.3	26.2	69.3
⁹¹ Zr							
⁹³ Nb	0.3	0.2	1.8	0.3	0.7	0.2	0.7
⁹⁵ Mo							
¹³³ Cs	0.2	0.3	1.5	0.3	0.8	0.3	1.0
¹³⁸ Ba	82.2	129.7	480.0	85.2	148.0	75.5	177.0
¹³⁹ La	2.8	2.5	13.5	2.6	4.1	1.5	3.3
¹⁴⁰ Ce	6.1	5.7	32.6	5.6	11.2	4.3	10.4
¹⁴¹ Pr	1.2	1.1	5.3	0.9	1.7	0.7	1.6
¹⁴⁶ Nd	6.3	6.2	26.6	5.6	9.0	4.8	10.0
¹⁴⁷ Sm	2.0	2.6	8.0	2.1	3.4	1.8	4.6
¹⁵¹ Eu	0.6	1.0	1.8	0.8	1.2	0.7	1.3
¹⁵³ Eu							

Table D.1 continued

Sample	C13 11-12				13-13		
¹⁵⁷ Gd	2.2	3.4	9.4	2.7	5.3	2.9	6.9
¹⁵⁹ Tb	0.4	0.7	1.8	0.5	1.0	0.4	1.1
¹⁶³ Dy	2.6	3.2	10.7	3.5	6.8	3.4	9.2
¹⁶⁵ Ho	0.6	0.9	2.2	0.9	1.3	0.7	1.9
¹⁶⁶ Er	1.7	3.3	7.1	2.2	4.4	2.2	6.1
¹⁶⁹ Tm	0.3	0.5	1.1	0.3	0.6	0.4	0.8
¹⁷² Yb	1.6	2.9	8.2	2.2	4.5	2.3	5.5
¹⁷⁵ Lu	0.2	0.4	1.0	0.4	0.7	0.3	0.9
¹⁷⁸ Hf	1.1	1.8	7.0	1.2	2.2	0.9	2.3
¹⁸¹ Ta	0.0	0.1	0.2	0.0	0.1	0.0	0.0
¹⁸² W	0.1	0.2	0.3	0.0	0.4	0.1	1.3
²⁰⁸ Pb	1.5	2.4	7.8	2.0	26.6	1.5	6.4
²³² Th	0.4	0.4	2.8	0.4	0.8	0.2	0.3
²³⁸ U	0.1	0.1	0.8	0.1	0.2	0.1	0.1

Table D.1 continued

Sample	C13 13.5-14				C13 15-16		
⁴⁵ Sc	37.2	15.7	35.7	37.0	48.6	35.6	40.8
⁴⁷ Ti	7640.0	2128.0	5690.0	7440.0	5870.0	3989.0	5770.0
⁵¹ V	313.0	98.0	369.0	358.0	415.0	291.2	320.0
⁵³ Cr	0.6	4.5	5.5	3.6	76.0	69.2	1.6
⁵⁵ Mn	1775.0	675.0	1381.0	1639.0	1689.0	1176.0	1837.0
⁵⁹ Co							
⁶⁰ Ni	4.8	8.7	8.2	8.7	12.0	19.6	4.4
⁶³ Cu	112.9	39.8	104.2	138.1	113.9	193.0	131.3
⁶⁶ Zn	110.5	37.3	84.1	103.2	74.8	61.8	107.2
⁷¹ Ga	18.6	5.3	15.3	15.0	13.8	10.9	15.7
⁸⁵ Rb	15.6	4.6	9.2	15.8	10.8	6.2	9.9
⁸⁶ Sr	253.0	63.3	228.0	234.0	211.0	170.8	198.1
⁸⁸ Sr							
⁸⁹ Y	37.3	12.1	23.4	33.5	19.5	14.8	36.6
⁹⁰ Zr	93.1	30.4	59.1	81.5	53.5	31.6	73.5
⁹¹ Zr							
⁹³ Nb	0.8	0.4	0.6	1.0	0.8	0.3	0.6
⁹⁵ Mo							
¹³³ Cs	0.7	0.2	0.4	0.7	0.3	0.2	0.6
¹³⁸ Ba	259.0	75.3	196.0	301.0	161.0	105.3	186.5
¹³⁹ La	7.1	2.3	5.1	7.7	5.2	3.2	4.4
¹⁴⁰ Ce	18.5	5.8	12.6	19.8	13.2	7.7	11.5
¹⁴¹ Pr	2.7	0.8	1.9	2.7	1.9	1.2	1.8
¹⁴⁶ Nd	15.2	4.6	8.2	15.7	10.3	6.6	10.8
¹⁴⁷ Sm	5.1	1.7	3.0	4.0	2.9	2.1	3.8
¹⁵¹ Eu	1.4	0.4	1.0	1.5	0.9	0.7	1.0
¹⁵³ Eu							

Table D.1 continued

Sample	C13 13.5-14				C13 15-16		
¹⁵⁷ Gd	5.2	1.7	3.6	4.9	3.3	2.2	5.1
¹⁵⁹ Tb	0.8	0.3	0.6	0.9	0.5	0.5	0.8
¹⁶³ Dy	5.5	2.2	3.9	5.3	3.5	2.7	6.9
¹⁶⁵ Ho	1.2	0.5	0.9	1.2	0.7	0.6	1.4
¹⁶⁶ Er	3.8	1.6	3.0	4.2	1.9	1.7	3.9
¹⁶⁹ Tm	0.4	0.2	0.3	0.5	0.3	0.3	0.6
¹⁷² Yb	4.1	1.3	2.7	3.5	1.9	1.4	3.9
¹⁷⁵ Lu	0.6	0.2	0.4	0.5	0.3	0.2	0.7
¹⁷⁸ Hf	2.5	1.0	2.0	2.8	1.5	0.9	2.5
¹⁸¹ Ta	0.0	0.0	0.0	0.1	0.1	0.0	0.1
¹⁸² W	0.3	0.0	0.7	0.4	0.1	0.2	0.2
²⁰⁸ Pb	3.9	1.2	4.2	4.0	1.9	1.8	3.6
²³² Th	1.2	0.4	0.9	1.2	0.6	0.4	0.7
²³⁸ U	0.4	0.1	0.2	0.4	0.2	0.1	0.2

Table D.1 continued

Sample	C13 15-16		C13 17-17.5				
⁴⁵ Sc	37.6	37.5	36.6	41.2	40.0	23.0	39.8
⁴⁷ Ti	5390.0	5980.0	6860.0	6660.0	2290.0	5300.0	7070.0
⁵¹ V	396.0	289.2	376.0	428.0	164.0	26.5	398.0
⁵³ Cr	12.5	15.4	1.3	9.0	22.0	2.1	3.3
⁵⁵ Mn	1685.0	1903.0	1570.0	1693.0	374.0	1560.0	1564.0
⁵⁹ Co							
⁶⁰ Ni	5.9	18.7	8.0	9.2	19.2	0.3	11.6
⁶³ Cu	237.2	3.3	86.8	164.7	330.0	10.9	214.1
⁶⁶ Zn	88.8	93.1	106.2	96.1	810.0	81.8	112.7
⁷¹ Ga	14.7	15.4	16.4	17.2	24.4	12.9	16.2
⁸⁵ Rb	9.7	16.9	13.9	8.2	14.9	18.8	8.9
⁸⁶ Sr	203.5	211.8	265.0	244.9	301.0	202.0	174.1
⁸⁸ Sr							
⁸⁹ Y	20.6	29.7	29.1	24.6	58.0	53.0	30.9
⁹⁰ Zr	49.4	97.0	72.9	48.4	62.0	136.7	65.4
⁹¹ Zr							
⁹³ Nb	0.5	1.3	0.9	0.6	0.2	1.5	0.5
⁹⁵ Mo							
¹³³ Cs	0.4	0.6	0.5	0.4	1.4	0.8	0.9
¹³⁸ Ba	174.6	278.0	260.0	155.8	158.0	315.0	208.1
¹³⁹ La	4.9	8.7	6.4	4.2	5.5	9.7	3.7
¹⁴⁰ Ce	12.1	19.5	15.0	11.2	15.9	23.6	10.1
¹⁴¹ Pr	1.8	3.0	2.4	1.7	2.3	3.6	1.6
¹⁴⁶ Nd	10.3	15.5	12.6	8.7	13.5	21.3	8.3
¹⁴⁷ Sm	2.7	4.0	4.2	3.0	6.6	7.1	3.6
¹⁵¹ Eu	1.0	1.0	1.3	1.0	1.6	1.7	1.1
¹⁵³ Eu							

Table D.1 continued

Sample	C13 15-16		C13 17-17.5				
¹⁵⁷ Gd	3.2	5.1	4.5	3.7	10.8	7.9	3.8
¹⁵⁹ Tb	0.5	0.8	0.8	0.6	1.7	1.3	0.7
¹⁶³ Dy	3.8	5.4	5.1	3.9	11.9	8.8	5.3
¹⁶⁵ Ho	0.8	1.2	1.0	0.9	2.1	1.9	1.1
¹⁶⁶ Er	2.4	3.1	3.3	2.6	6.2	6.2	3.5
¹⁶⁹ Tm	0.3	0.4	0.5	0.3	1.0	1.1	0.5
¹⁷² Yb	2.5	3.0	3.0	2.7	6.5	6.3	3.5
¹⁷⁵ Lu	0.4	0.4	0.5	0.4	1.0	1.0	0.5
¹⁷⁸ Hf	1.3	2.7	1.7	1.5	2.2	4.5	2.6
¹⁸¹ Ta	0.1	0.1	0.1	0.1	0.0	0.1	0.0
¹⁸² W	0.2	0.1	1.2	0.2	3.5	0.7	0.6
²⁰⁸ Pb	2.5	3.6	5.7	2.7	17.1	5.6	5.2
²³² Th	0.7	1.4	1.0	0.6	0.7	1.4	0.6
²³⁸ U	0.2	0.5	0.4	0.2	0.2	0.5	0.2

Table D.1 continued

Sample	C13 17-17.5			C13 18.5-19			
⁴⁵ Sc	52.2	47.9	35.8	6.6	6.5	4.2	8.5
⁴⁷ Ti	5510.0	7030.0	3560.0	1255.0	1143.0	825.0	1649.0
⁵¹ V	300.0	228.0	285.6	51.1	62.4	40.7	55.2
⁵³ Cr	23.5	2.1	95.0	0.4	2.0	-0.3	0.8
⁵⁵ Mn	1995.0	1993.0	1014.0	303.4	244.2	204.8	399.0
⁵⁹ Co							
⁶⁰ Ni	7.0	3.3	11.1	1.2	2.6	0.7	0.4
⁶³ Cu	35.7	115.6	105.3	36.6	36.2	13.4	18.4
⁶⁶ Zn	101.5	151.0	53.7	22.3	16.4	13.5	23.8
⁷¹ Ga	12.5	19.7	11.4	3.4	2.7	3.3	4.2
⁸⁵ Rb	13.9	2.7	4.4	3.8	2.0	1.7	3.7
⁸⁶ Sr	174.3	237.0	176.0	42.1	29.1	56.2	45.3
⁸⁸ Sr							
⁸⁹ Y	27.3	45.4	11.8	6.6	5.5	3.8	9.8
⁹⁰ Zr	66.2	78.8	24.3	19.6	12.1	9.7	25.1
⁹¹ Zr							
⁹³ Nb	0.8	0.6	0.3	0.2	0.1	0.2	0.2
⁹⁵ Mo							
¹³³ Cs	0.4	0.5	0.2	0.2	0.2	0.1	0.2
¹³⁸ Ba	186.0	229.0	87.1	53.3	41.7	39.1	59.0
¹³⁹ La	5.6	5.1	2.3	1.6	0.8	0.9	1.8
¹⁴⁰ Ce	14.1	12.1	6.0	3.7	1.8	2.4	4.2
¹⁴¹ Pr	2.3	2.2	0.9	0.6	0.3	0.4	0.8
¹⁴⁶ Nd	11.9	11.8	5.2	2.8	1.6	1.6	3.6
¹⁴⁷ Sm	3.7	5.0	1.6	0.9	0.5	0.5	1.0
¹⁵¹ Eu	0.9	1.8	0.6	0.2	0.2	0.2	0.4
¹⁵³ Eu							

Table D.1 continued

Sample	C13 17-17.5			C13 18.5-19			
¹⁵⁷ Gd	4.3	6.1	1.9	1.1	0.7	0.6	1.7
¹⁵⁹ Tb	0.7	1.0	0.3	0.2	0.1	0.1	0.2
¹⁶³ Dy	5.2	8.0	1.8	1.2	0.8	0.7	1.9
¹⁶⁵ Ho	0.9	1.5	0.4	0.3	0.2	0.2	0.4
¹⁶⁶ Er	2.9	4.9	1.3	0.8	0.6	0.4	1.2
¹⁶⁹ Tm	0.4	0.7	0.2	0.1	0.1	0.1	0.2
¹⁷² Yb	3.1	5.1	1.5	0.7	0.5	0.4	1.0
¹⁷⁵ Lu	0.4	0.8	0.2	0.1	0.1	0.1	0.2
¹⁷⁸ Hf	2.1	2.6	0.6	0.6	0.4	0.3	0.8
¹⁸¹ Ta	0.1	0.1	0.1	0.0	0.0	0.0	0.0
¹⁸² W	0.2	0.5	0.2	0.1	0.1	0.0	0.1
²⁰⁸ Pb	3.2	7.2	1.1	0.9	0.9	0.6	1.0
²³² Th	0.8	0.6	0.3	0.2	0.1	0.1	0.3
²³⁸ U	0.3	0.2	0.1	0.1	0.0	0.0	0.1

Table D.1 continued

Sample	C13 18.5-19				C13 21-22		
⁴⁵ Sc	8.0	9.1	6.1	6.3	8.8	6.7	6.4
⁴⁷ Ti	1600.0	886.0	1033.0	1222.0	1117.0	1191.0	1003.0
⁵¹ V	49.7	47.3	40.2	60.2	73.2	54.9	38.9
⁵³ Cr	0.9	2.8	1.5	0.1	1.8	0.6	0.9
⁵⁵ Mn	339.0	348.0	269.2	292.0	289.8	281.0	283.0
⁵⁹ Co							
⁶⁰ Ni	0.3	2.4	2.2	0.8	1.9	1.6	0.3
⁶³ Cu	19.0	7.7	15.2	17.0	21.7	36.5	8.5
⁶⁶ Zn	22.5	16.7	16.7	19.2	16.4	17.6	15.8
⁷¹ Ga	4.0	2.3	3.0	3.0	2.6	2.6	3.3
⁸⁵ Rb	3.6	2.1	2.4	2.3	1.9	3.1	1.7
⁸⁶ Sr	46.7	25.9	43.4	41.7	35.1	39.6	48.9
⁸⁸ Sr							
⁸⁹ Y	9.6	6.1	5.1	5.9	5.5	6.7	6.1
⁹⁰ Zr	23.5	12.4	13.0	15.1	12.7	18.0	12.9
⁹¹ Zr							
⁹³ Nb	0.2	0.1	0.2	0.2	0.1	0.2	0.1
⁹⁵ Mo							
¹³³ Cs	0.2	0.1	0.1	0.1	0.1	0.2	0.1
¹³⁸ Ba	57.2	36.2	36.6	42.4	28.5	47.8	36.2
¹³⁹ La	1.8	1.0	1.1	1.1	1.1	1.5	1.0
¹⁴⁰ Ce	4.2	2.5	2.8	2.8	2.3	3.2	2.2
¹⁴¹ Pr	0.7	0.4	0.5	0.5	0.4	0.5	0.3
¹⁴⁶ Nd	3.6	2.2	2.5	2.3	2.2	2.9	2.3
¹⁴⁷ Sm	1.1	0.7	0.7	0.7	0.7	0.8	0.7
¹⁵¹ Eu	0.3	0.2	0.2	0.3	0.2	0.3	0.3
¹⁵³ Eu							

Table D.1 continued

Sample	C13 18.5-19				C13 21-22		
¹⁵⁷ Gd	1.5	0.9	0.8	0.8	0.7	1.0	0.7
¹⁵⁹ Tb	0.2	0.2	0.1	0.2	0.1	0.2	0.1
¹⁶³ Dy	1.7	1.1	0.9	1.1	0.9	1.2	0.9
¹⁶⁵ Ho	0.4	0.2	0.2	0.2	0.2	0.3	0.2
¹⁶⁶ Er	1.3	0.7	0.6	0.7	0.7	0.8	0.7
¹⁶⁹ Tm	0.1	0.1	0.1	0.1	0.1	0.1	0.1
¹⁷² Yb	1.0	0.6	0.5	0.6	0.5	0.6	0.6
¹⁷⁵ Lu	0.1	0.1	0.1	0.1	0.1	0.1	0.1
¹⁷⁸ Hf	0.8	0.4	0.4	0.5	0.3	0.6	0.5
¹⁸¹ Ta	0.0	0.0	0.0	0.0	0.0	0.0	0.0
¹⁸² W	0.0	0.1	0.6	0.0	0.0	0.0	0.0
²⁰⁸ Pb	1.0	0.7	0.7	0.7	0.4	0.8	0.6
²³² Th	0.3	0.1	0.2	0.2	0.1	0.3	0.2
²³⁸ U	0.1	0.1	0.1	0.1	0.0	0.1	0.0

Table D.1 continued

Sample	C13 21-22					
⁴⁵ Sc	6.6	6.3	6.5	6.7	6.8	7.8
⁴⁷ Ti	1064.0	1165.0	1204.0	1176.0	1035.0	1243.0
⁵¹ V	65.2	56.1	71.6	64.2	64.8	36.6
⁵³ Cr	0.7	0.8	0.5	0.3	1.6	-0.6
⁵⁵ Mn	266.0	281.3	285.3	275.8	262.8	352.8
⁵⁹ Co						
⁶⁰ Ni	1.6	1.4	1.2	0.9	1.1	0.2
⁶³ Cu	27.9	36.9	14.4	13.0	25.2	4.9
⁶⁶ Zn	14.4	18.3	17.1	17.5	15.3	21.7
⁷¹ Ga	3.1	3.1	3.1	3.1	2.5	3.5
⁸⁵ Rb	1.2	3.0	2.2	1.8	1.3	2.2
⁸⁶ Sr	37.5	38.7	45.3	40.3	36.9	47.2
⁸⁸ Sr						
⁸⁹ Y	4.0	6.0	4.8	4.8	3.6	8.0
⁹⁰ Zr	8.3	15.8	11.1	11.0	7.4	16.9
⁹¹ Zr						
⁹³ Nb	0.1	0.2	0.1	0.1	0.1	0.1
⁹⁵ Mo						
¹³³ Cs	0.1	0.1	0.1	0.1	0.1	0.1
¹³⁸ Ba	24.1	48.4	44.7	36.4	23.8	41.0
¹³⁹ La	0.7	1.3	1.2	1.0	0.7	1.1
¹⁴⁰ Ce	1.6	3.1	2.7	2.3	1.7	2.6
¹⁴¹ Pr	0.2	0.4	0.4	0.4	0.3	0.4
¹⁴⁶ Nd	1.4	2.5	2.1	1.9	1.4	2.5
¹⁴⁷ Sm	0.5	0.7	0.6	0.6	0.5	0.8
¹⁵¹ Eu	0.2	0.2	0.2	0.2	0.2	0.3
¹⁵³ Eu						

Table D.1 continued

Sample	C13 21-22					
¹⁵⁷ Gd	0.7	0.9	0.8	0.7	0.5	1.0
¹⁵⁹ Tb	0.1	0.2	0.1	0.1	0.1	0.2
¹⁶³ Dy	0.6	1.0	0.9	0.8	0.6	1.4
¹⁶⁵ Ho	0.2	0.2	0.2	0.2	0.1	0.3
¹⁶⁶ Er	0.6	0.7	0.5	0.5	0.4	0.9
¹⁶⁹ Tm	0.1	0.1	0.1	0.1	0.1	0.1
¹⁷² Yb	0.3	0.6	0.5	0.5	0.4	0.8
¹⁷⁵ Lu	0.1	0.1	0.1	0.1	0.1	0.1
¹⁷⁸ Hf	0.3	0.5	0.4	0.3	0.3	0.5
¹⁸¹ Ta	0.0	0.0	0.0	0.0	0.0	0.0
¹⁸² W	0.0	0.0	0.0	0.0	0.0	0.0
²⁰⁸ Pb	0.4	0.7	0.6	0.5	0.5	0.8
²³² Th	0.1	0.2	0.1	0.2	0.1	0.2
²³⁸ U	0.0	0.1	0.1	0.0	0.0	0.1

Table D.1 continued

Sample	C13 23.5-24				13-26		
⁴⁵ Sc	6.7	7.0	6.6	6.8	13.8	27.3	25.7
⁴⁷ Ti	1290.0	1208.0	1296.0	1162.0	3800.0	6560.0	7490.0
⁵¹ V	62.5	64.3	69.1	67.8	10.0	434.0	214.9
⁵³ Cr	0.1	0.4	0.5	1.0	6.7	6.3	2.4
⁵⁵ Mn	319.0	296.1	276.0	298.0	1165.0	1728.0	1767.0
⁵⁹ Co					6.4	68.2	42.5
⁶⁰ Ni	0.8	1.4	1.3	1.0	-0.6	17.8	0.9
⁶³ Cu	20.5	22.9	38.3	18.7	8.9	177.7	18.0
⁶⁶ Zn	19.2	15.9	20.7	19.1	89.0	130.6	132.9
⁷¹ Ga	3.5	2.7	3.1	3.3	17.5	20.4	22.3
⁸⁵ Rb	2.8	1.5	1.3	1.8	30.8	15.5	19.8
⁸⁶ Sr	48.8	40.8	30.4	37.0	160.0	254.0	296.0
⁸⁸ Sr					90.0	113.0	124.0
⁸⁹ Y	6.1	4.5	4.9	4.3	39.9	21.7	22.4
⁹⁰ Zr	15.8	9.8	8.4	8.7	130.0	60.0	59.1
⁹¹ Zr					128.0	57.7	62.9
⁹³ Nb	0.2	0.1	0.1	0.1	1.9	1.0	0.7
⁹⁵ Mo					2.4	1.3	0.8
¹³³ Cs	0.1	0.1	0.1	0.1	1.7	0.8	0.9
¹³⁸ Ba	52.7	35.1	26.0	28.8	453.0	266.3	275.0
¹³⁹ La	1.4	0.9	0.5	0.8	11.0	6.4	6.3
¹⁴⁰ Ce	3.6	2.2	1.4	1.9	28.5	17.9	17.7
¹⁴¹ Pr	0.5	0.3	0.2	0.3	4.7	2.5	2.5
¹⁴⁶ Nd	2.8	1.9	1.5	1.6	19.9	12.5	12.2
¹⁴⁷ Sm	0.9	0.6	0.4	0.5	6.2	3.2	3.8
¹⁵¹ Eu	0.3	0.2	0.2	0.2	1.4	1.0	1.3
¹⁵³ Eu					1.3	1.1	1.2

Table D.1 continued

Sample	C13 23.5-24				13-26		
¹⁵⁷ Gd	1.0	0.6	0.7	0.7	7.4	3.9	4.2
¹⁵⁹ Tb	0.2	0.1	0.1	0.1	1.0	0.5	0.6
¹⁶³ Dy	1.1	0.8	0.8	0.8	7.3	3.8	4.4
¹⁶⁵ Ho	0.2	0.2	0.1	0.2	1.4	0.8	0.9
¹⁶⁶ Er	0.7	0.5	0.5	0.5	4.6	2.3	2.4
¹⁶⁹ Tm	0.1	0.1	0.1	0.1	0.6	0.3	0.3
¹⁷² Yb	0.7	0.5	0.5	0.5	5.2	2.5	2.9
¹⁷⁵ Lu	0.1	0.1	0.1	0.1	0.8	0.4	0.3
¹⁷⁸ Hf	0.5	0.3	0.3	0.2	4.3	1.8	1.3
¹⁸¹ Ta	0.0	0.0	0.0	0.0	0.1	0.1	0.1
¹⁸² W	0.0	0.0	0.1	0.0	0.7	0.1	0.1
²⁰⁸ Pb	1.3	0.5	0.5	0.5	8.2	4.1	4.1
²³² Th	0.2	0.1	0.1	0.1	1.9	1.0	0.8
²³⁸ U	0.1	0.0	0.0	0.0	0.7	0.5	0.4

Table D.1 continued

Sample	13-26						
⁴⁵ Sc	13.9	18.2	12.6	15.7	12.0	13.3	14.2
⁴⁷ Ti	3980.0	5530.0	3960.0	3321.0	3070.0	4030.0	4050.0
⁵¹ V	7.5	37.3	9.3	3.3	3.4	19.9	7.9
⁵³ Cr	1.4	1.1	-4.5	0.4	1.2	-3.0	0.0
⁵⁵ Mn	1270.0	1621.0	1164.0	1017.0	1064.0	1266.0	1300.0
⁵⁹ Co	7.7	31.3	7.1	3.4	5.5	9.7	5.8
⁶⁰ Ni	0.8	2.9	3.8	1.0	2.4	0.9	4.6
⁶³ Cu	11.2	66.5	9.9	3.9	-0.4	10.6	11.9
⁶⁶ Zn	104.2	129.1	110.0	93.4	117.7	100.1	80.0
⁷¹ Ga	19.6	20.3	18.1	14.3	19.3	18.5	17.6
⁸⁵ Rb	31.1	27.0	32.1	30.4	34.2	31.0	30.4
⁸⁶ Sr	173.0	222.0	149.0	124.0	138.0	168.0	186.0
⁸⁸ Sr	88.1	103.0	84.8	150.3	73.2	87.9	114.0
⁸⁹ Y	43.0	40.9	39.5	39.0	41.7	39.8	43.3
⁹⁰ Zr	143.1	118.9	126.8	128.7	142.6	131.4	143.0
⁹¹ Zr	149.0	107.1	126.0	133.0	153.0	139.0	140.0
⁹³ Nb	1.6	1.8	1.3	2.2	1.8	2.1	2.0
⁹⁵ Mo	2.8	1.9	2.4	2.7	2.7	2.6	2.6
¹³³ Cs	1.8	1.3	1.7	1.3	2.0	1.7	1.7
¹³⁸ Ba	428.0	387.0	421.0	404.0	434.0	423.0	472.0
¹³⁹ La	10.6	10.7	11.6	9.1	10.8	10.5	11.2
¹⁴⁰ Ce	29.3	28.6	28.9	28.4	29.8	29.8	32.8
¹⁴¹ Pr	3.9	4.2	3.9	3.6	4.2	4.0	4.8
¹⁴⁶ Nd	19.7	20.2	19.8	17.3	20.8	19.9	24.8
¹⁴⁷ Sm	5.1	5.4	5.6	5.3	5.6	3.9	6.1
¹⁵¹ Eu	1.5	1.7	1.3	1.2	1.2	1.5	1.6
¹⁵³ Eu	1.2	1.9	1.3	1.1	1.1	1.6	1.6

Table D.1 continued

Sample	13-26						
¹⁵⁷ Gd	6.7	6.5	7.0	6.7	5.2	7.0	8.1
¹⁵⁹ Tb	1.1	1.1	1.0	0.9	0.8	0.9	1.3
¹⁶³ Dy	6.7	7.7	6.2	6.7	6.4	7.4	6.9
¹⁶⁵ Ho	1.4	1.6	1.6	1.4	1.5	1.5	1.6
¹⁶⁶ Er	5.0	4.7	4.3	4.5	3.9	4.8	5.1
¹⁶⁹ Tm	0.6	0.7	0.7	0.6	0.8	0.7	0.7
¹⁷² Yb	5.2	5.4	4.9	5.4	5.4	5.4	5.4
¹⁷⁵ Lu	0.8	0.8	0.7	0.8	0.8	0.8	0.9
¹⁷⁸ Hf	4.3	3.5	4.5	4.4	4.5	4.1	4.5
¹⁸¹ Ta	0.1	0.2	0.2	0.2	0.1	0.1	0.1
¹⁸² W	0.8	0.6	0.4	0.2	0.5	0.5	1.4
²⁰⁸ Pb	8.6	6.9	8.1	7.5	8.5	8.1	10.4
²³² Th	1.6	1.7	1.7	1.6	1.9	1.9	1.8
²³⁸ U	0.9	0.9	0.9		1.0	0.9	0.9

Table D.1 continued

Sample	13-33						
⁴⁵ Sc	18.4	17.3	74.4	14.2	23.5	22.9	27.4
⁴⁷ Ti	3470.0	2557.0	7400.0	2240.0	3970.0	4200.0	5790.0
⁵¹ V	23.2	15.2	583.0	17.5	46.7	43.0	152.3
⁵³ Cr	-3.1	-1.4	183.0	4.5	5.5	0.1	3.6
⁵⁵ Mn	1430.0	749.0	3010.0	1380.0	1660.0	1590.0	1880.0
⁵⁹ Co	6.4	3.9	117.0	8.0	11.2	9.8	31.5
⁶⁰ Ni	2.6	0.8	120.0	6.9	-0.9	3.3	3.2
⁶³ Cu	5.9	10.0	260.0	32.8	5.7	10.2	44.1
⁶⁶ Zn	96.0	52.5	91.0	87.0	73.4	93.0	136.0
⁷¹ Ga	16.4	11.6	26.7	12.9	17.6	19.9	20.3
⁸⁵ Rb	16.5	16.5	13.9	18.8	12.6	14.9	15.4
⁸⁶ Sr	177.0	111.0	465.0	132.0	214.0	213.0	231.0
⁸⁸ Sr	82.0	112.0	194.0	62.7	97.0	85.0	84.0
⁸⁹ Y	34.7	35.4	26.9	35.7	35.7	36.6	28.4
⁹⁰ Zr	78.0	76.1	68.0	79.9	67.8	81.0	68.0
⁹¹ Zr	82.0	66.3	57.0	81.0	68.0	78.0	59.5
⁹³ Nb	0.7	0.7	0.6	0.9	0.6	0.6	1.0
⁹⁵ Mo	2.7	2.5	0.7	2.9	2.0	1.3	1.3
¹³³ Cs	1.4	1.6	0.9	2.1	1.3	1.2	0.8
¹³⁸ Ba	364.0	331.0	202.0	392.0	339.0	334.0	274.0
¹³⁹ La	5.0	4.7	6.4	5.8	4.3	4.7	7.0
¹⁴⁰ Ce	14.1	12.6	15.4	14.4	13.1	13.3	19.4
¹⁴¹ Pr	2.2	1.9	2.4	2.2	2.0	1.9	2.8
¹⁴⁶ Nd	10.7	9.6	12.4	12.3	11.8	9.4	12.8
¹⁴⁷ Sm	4.1	4.2	4.6	4.0	4.5	3.8	3.8
¹⁵¹ Eu	1.1	0.9	1.1	1.3	1.3	1.2	1.4
¹⁵³ Eu	1.3	0.8	1.2	0.9	1.1	1.3	1.3

Table D.1 continued

Sample	13-33						
¹⁵⁷ Gd	5.0	4.8	5.6	5.2	5.8	5.1	4.1
¹⁵⁹ Tb	1.0	0.7	0.7	0.9	0.9	0.9	0.8
¹⁶³ Dy	6.6	5.8	4.4	6.0	6.0	6.1	4.8
¹⁶⁵ Ho	1.3	1.2	1.0	1.5	1.3	1.3	1.0
¹⁶⁶ Er	3.9	4.3	2.7	4.0	3.8	3.2	3.3
¹⁶⁹ Tm	0.6	0.6	0.4	0.5	0.7	0.6	0.4
¹⁷² Yb	5.0	4.2	3.4	4.8	5.4	3.7	3.2
¹⁷⁵ Lu	0.7	0.6	0.5	0.8	0.9	0.7	0.5
¹⁷⁸ Hf	2.6	2.8	1.7	2.9	2.3	2.4	2.1
¹⁸¹ Ta	0.0	0.1	0.1	0.1	0.1	0.1	0.1
¹⁸² W	0.6	0.3	1.3	0.9	0.4	1.5	0.1
²⁰⁸ Pb	7.8	5.7	7.4	14.8	7.5	7.7	4.6
²³² Th	0.7	0.8	0.7	0.8	0.7	0.7	1.0
²³⁸ U	0.4		0.3	0.4	0.4	0.3	0.5

Table D.1 continued

Sample	13-33						
⁴⁵ Sc	8.9	14.2	24.6	18.4	9.2	18.9	22.4
⁴⁷ Ti	1939.0	2355.0	4100.0	3190.0	1750.0	3690.0	3980.0
⁵¹ V	11.2	15.4	51.9	10.0	9.1	28.2	41.0
⁵³ Cr	-5.7	-1.7	-0.9	-4.4	0.6	-7.7	2.7
⁵⁵ Mn	818.0	785.0	1671.0	1162.0	565.0	1430.0	1610.0
⁵⁹ Co	1.5	6.3	10.7	5.3	3.6	7.7	9.4
⁶⁰ Ni	0.8	4.1	2.3	0.6	-0.3	1.7	-0.2
⁶³ Cu	4.6	16.8	4.8	8.1	9.0	2.8	4.6
⁶⁶ Zn	72.7	67.8	76.0	84.2	40.6	111.0	94.9
⁷¹ Ga	16.5	14.5	17.2	15.8	15.3	18.9	17.1
⁸⁵ Rb		18.8	12.7	16.7	33.0	15.8	12.5
⁸⁶ Sr	142.0	139.0	203.0	169.0	78.0	177.0	184.0
⁸⁸ Sr	78.3	65.3	79.0	75.0	48.7	87.0	72.0
⁸⁹ Y	37.0	38.2	36.8	38.9	35.1	37.0	32.6
⁹⁰ Zr	233.0	84.5	74.2	84.2	142.9	76.0	65.1
⁹¹ Zr	225.0	83.4	76.7	80.0	147.0	65.0	73.0
⁹³ Nb		1.1	0.6	0.8	1.5	1.1	1.0
⁹⁵ Mo	3.7	2.2	1.3	1.9	2.7	3.3	2.7
¹³³ Cs	2.9	1.7	1.3	1.5	2.3	1.4	1.3
¹³⁸ Ba		349.0	338.0	376.0	422.0	363.0	334.0
¹³⁹ La		5.0	5.4	5.2	8.3	5.6	4.8
¹⁴⁰ Ce	57.4	13.6	13.4	14.3	20.8	13.7	13.1
¹⁴¹ Pr	6.9	2.1	2.2	2.2	3.0	2.3	1.9
¹⁴⁶ Nd	27.8	10.7	13.6	12.9	12.8	11.4	10.3
¹⁴⁷ Sm	7.1	4.3	3.9	3.7	3.9	4.7	3.9
¹⁵¹ Eu	1.4	1.0	1.3	1.2	0.8	1.1	1.3
¹⁵³ Eu	1.2	0.9	1.2	0.9	0.7	1.1	1.0

Table D.1 continued

Sample	13-33						
¹⁵⁷ Gd	6.5	5.1	5.7	5.1	4.3	5.5	4.8
¹⁵⁹ Tb	1.0	0.9	1.1	0.9	0.9	0.9	0.8
¹⁶³ Dy	6.7	5.3	6.5	7.0	5.6	5.6	6.1
¹⁶⁵ Ho	1.4	1.3	1.5	1.2	1.2	1.3	1.2
¹⁶⁶ Er	5.0	4.1	4.8	5.0	3.9	3.2	3.7
¹⁶⁹ Tm	0.7	0.8	0.7	0.8	0.6	0.6	0.5
¹⁷² Yb	5.3	3.7	6.1	5.7	5.4	3.3	3.8
¹⁷⁵ Lu	0.8	0.7	0.8	0.7	0.8	0.7	0.7
¹⁷⁸ Hf	6.7	3.1	2.8	3.0	4.7	2.3	2.4
¹⁸¹ Ta	0.4	0.1	0.1	0.1	0.1	0.0	0.1
¹⁸² W	0.9	0.4	0.6	0.7	0.5	0.5	0.5
²⁰⁸ Pb	14.4	6.7	6.3	8.3	13.1	8.2	7.4
²³² Th	10.2	1.1	0.7	0.9	2.3	0.8	0.6
²³⁸ U	2.9	0.4	0.3	0.4	0.8	0.3	0.3

Table D.1 continued

Sample	13-33	13-51					
⁴⁵ Sc	14.1	32.3	20.6	15.8	15.8	38.6	14.4
⁴⁷ Ti	2400.0	7030.0	3200.0	2119.0	2296.0	7620.0	2086.0
⁵¹ V	17.1	321.9	18.3	7.2	12.9	358.0	7.6
⁵³ Cr	5.7	0.9	0.1	-1.0	2.2	0.5	1.3
⁵⁵ Mn	805.0	1588.0	1101.0	663.0	682.0	1798.0	695.0
⁵⁹ Co	6.4	32.6	4.5	2.6	3.3	34.6	3.2
⁶⁰ Ni	1.0	7.8	1.8	-0.5	0.7	1.9	1.3
⁶³ Cu	20.2	176.0	15.7	16.4	14.8	58.2	16.4
⁶⁶ Zn	67.6	133.4	96.5	56.5	59.5	132.7	46.8
⁷¹ Ga	14.5	16.5	12.6	10.7	9.9	14.2	10.5
⁸⁵ Rb	18.1	20.1	16.4	17.0	16.9	10.9	17.5
⁸⁶ Sr	119.0	195.0	141.0	93.4	109.0	141.0	87.3
⁸⁸ Sr	56.8	192.0	129.0	99.0	109.0	143.0	103.6
⁸⁹ Y	33.4	26.2	29.9	31.8	28.7	23.5	33.7
⁹⁰ Zr	74.9	75.3	68.2	79.7	62.8	53.3	81.5
⁹¹ Zr	70.0	72.3	64.6	78.3	67.6	52.1	76.8
⁹³ Nb	0.6	1.2	0.8	1.1	0.4	0.5	0.8
⁹⁵ Mo	2.4	1.8	0.9	1.9	2.4	1.3	1.8
¹³³ Cs	2.1	0.9	1.2	1.6	1.5	1.1	1.8
¹³⁸ Ba	339.0	289.0	308.0	322.0	284.0	231.0	329.0
¹³⁹ La	4.8	6.8	4.9	4.4	4.3	4.1	4.6
¹⁴⁰ Ce	12.2	19.7	14.0	13.6	12.7	12.2	12.6
¹⁴¹ Pr	1.9	2.8	2.0	1.8	1.9	1.7	1.8
¹⁴⁶ Nd	10.9	13.2	11.0	10.2	8.7	9.2	10.3
¹⁴⁷ Sm	3.7	4.2	3.7	3.2	3.2	3.5	3.3
¹⁵¹ Eu	0.9	1.3	0.9	0.7	0.8	0.9	0.7
¹⁵³ Eu	0.8	1.1	1.1	0.9	0.9	0.9	0.8

Table D.1 continued

Sample	13-33		13-51				
¹⁵⁷ Gd	5.4	4.3	3.3	4.2	4.1	3.4	4.5
¹⁵⁹ Tb	0.9	0.7	0.8	0.7	0.7	0.6	0.7
¹⁶³ Dy	6.1	4.4	5.1	5.4	5.9	4.8	5.3
¹⁶⁵ Ho	1.4	0.9	1.2	1.2	1.1	0.9	1.3
¹⁶⁶ Er	4.0	2.5	3.2	3.6	3.2	2.6	3.2
¹⁶⁹ Tm	0.6	0.5	0.5	0.6	0.5	0.5	0.5
¹⁷² Yb	5.1	3.0	3.5	3.0	3.4	2.8	4.0
¹⁷⁵ Lu	0.9	0.4	0.5	0.7	0.7	0.5	0.6
¹⁷⁸ Hf	2.5	2.1	1.9	2.2	2.0	1.6	2.9
¹⁸¹ Ta	0.1	0.1	0.0	0.0	0.1	0.0	0.1
¹⁸² W	0.9	0.2	0.5	0.3	0.3	0.3	0.4
²⁰⁸ Pb	6.2	4.7	5.1	6.1	5.7	4.7	5.7
²³² Th	0.9	1.0	1.0	0.8	0.9	0.8	0.9
²³⁸ U	0.3	0.5	0.3	0.3	0.3	0.3	0.3

Table D.1 continued

Sample	13-51	C13 clast				C15 0-1	
⁴⁵ Sc	46.1	16.8	20.6	16.6	14.3	39.9	59.4
⁴⁷ Ti	5710.0	3570.0	3930.0	4110.0	2930.0	6909.0	6480.0
⁵¹ V	328.8	22.1	20.5	18.9	15.4	253.0	442.0
⁵³ Cr	-0.7	3.5	2.2	0.7	-0.2	0.5	59.0
⁵⁵ Mn	2191.0	1110.0	1090.0	1029.0	728.0	1635.0	2004.0
⁵⁹ Co	40.9	6.3	3.5	3.7	2.0		
⁶⁰ Ni	6.2	-0.1	0.0	0.2	0.7	1.9	30.6
⁶³ Cu	67.7	6.4	5.2	1.6	-3.4	48.6	389.0
⁶⁶ Zn	137.1	27.0	24.4	51.5	29.7	96.6	108.8
⁷¹ Ga	14.0	16.2	13.2	13.4	15.5	16.4	18.5
⁸⁵ Rb	8.5	28.0	26.5	28.7	16.8	11.0	11.9
⁸⁶ Sr	130.0	252.0	228.0	160.0	271.0	233.7	306.4
⁸⁸ Sr	121.0	120.0	235.0	191.0	274.0		
⁸⁹ Y	19.4	52.0	51.3	36.1	26.6	33.8	23.4
⁹⁰ Zr	33.4	168.0	167.0	129.0	97.3	79.7	55.9
⁹¹ Zr	33.1	166.0	161.0	123.0	84.5		
⁹³ Nb	0.3	1.4	1.5	1.3	1.0	0.8	0.5
⁹⁵ Mo	1.0	2.6	2.5	1.9	1.0		
¹³³ Cs	0.7	1.9	1.6	1.4	1.0	0.5	0.5
¹³⁸ Ba	142.0	512.0	487.0	517.0	307.0	204.1	170.6
¹³⁹ La	2.3	10.6	10.2	9.2	6.3	5.6	5.7
¹⁴⁰ Ce	7.7	21.3	20.9	24.0	15.3	13.8	15.0
¹⁴¹ Pr	1.1	4.2	4.1	3.5	2.0	2.3	2.9
¹⁴⁶ Nd	6.5	18.7	18.6	18.2	12.7	13.2	12.8
¹⁴⁷ Sm	2.5	5.3	5.3	4.3	3.1	3.3	3.6
¹⁵¹ Eu	1.0	1.8	1.7	1.8	1.3	1.3	1.4
¹⁵³ Eu	0.8	1.5	1.5	1.3	1.5		

Table D.1 continued

Sample	13-51	C13 clast				C15 0-1	
¹⁵⁷ Gd	2.6	6.3	5.9	6.1	3.8	5.4	3.6
¹⁵⁹ Tb	0.4	1.5	1.5	0.9	0.7	0.9	0.5
¹⁶³ Dy	3.7	9.2	9.3	5.1	4.3	5.7	4.1
¹⁶⁵ Ho	0.7	2.0	2.1	1.3	1.1	1.3	0.6
¹⁶⁶ Er	2.1	5.8	5.9	4.3	2.8	4.3	2.4
¹⁶⁹ Tm	0.4	0.8	0.9	0.7	0.4	0.5	0.4
¹⁷² Yb	2.0	7.1	6.9	3.8	3.8	3.4	1.8
¹⁷⁵ Lu	0.4	1.1	1.0	0.8	0.5	0.6	0.2
¹⁷⁸ Hf	0.9	6.0	5.9	4.0	2.9	2.5	1.7
¹⁸¹ Ta	0.0	0.1	0.1	0.2	0.1	0.1	0.0
¹⁸² W	0.2	1.2	1.1	0.7	0.4	0.0	0.2
²⁰⁸ Pb	2.8	5.8	5.4	5.3	3.6	3.3	2.9
²³² Th	0.3	2.9	3.0	2.2	1.7	1.0	1.0
²³⁸ U	0.2	0.6	0.6	0.7	0.5	0.3	0.2

Table D.1 continued

Sample	C15 0-1		C15 3-4				
⁴⁵ Sc	36.2	46.4	38.0	43.6	49.2	38.1	43.5
⁴⁷ Ti	6790.0	7013.0	8070.0	8220.0	10340.0	6550.0	6940.0
⁵¹ V	238.9	430.1	157.0	84.8	335.0	417.0	448.0
⁵³ Cr	2.3	8.8	6.4	1.7	-1.9	1.7	4.8
⁵⁵ Mn	1823.0	1725.0	2360.0	2750.0	2620.0	1653.0	1744.0
⁵⁹ Co							
⁶⁰ Ni	2.8	7.1	1.4	1.8	4.1	6.2	11.3
⁶³ Cu	51.6	197.8	18.6	73.1	81.0	123.5	123.0
⁶⁶ Zn	96.0	90.7	165.0	181.0	162.0	98.6	102.0
⁷¹ Ga	17.6	17.3	22.3	26.6	24.0	18.6	18.0
⁸⁵ Rb	19.2	8.2	25.1	30.7	24.1	10.4	10.0
⁸⁶ Sr	282.0	256.6	318.0	356.0	312.0	249.4	259.0
⁸⁸ Sr							
⁸⁹ Y	40.4	26.1	50.2	72.1	53.9	26.3	26.0
⁹⁰ Zr	103.1	54.7	129.0	184.0	124.4	61.9	60.1
⁹¹ Zr							
⁹³ Nb	1.2	0.5	1.2	1.7	1.0	0.7	0.9
⁹⁵ Mo							
¹³³ Cs	0.7	0.3	1.0	1.5	1.2	0.5	0.5
¹³⁸ Ba	353.3	156.4	441.0	531.0	421.0	211.7	213.2
¹³⁹ La	9.5	5.1	12.1	15.4	11.0	5.2	5.8
¹⁴⁰ Ce	22.8	10.8	30.5	38.5	32.8	14.0	13.6
¹⁴¹ Pr	3.3	1.8	4.9	6.6	4.5	2.2	2.4
¹⁴⁶ Nd	19.1	11.1	21.9	28.9	22.0	10.6	12.0
¹⁴⁷ Sm	4.7	2.8	5.2	8.6	7.3	3.2	3.8
¹⁵¹ Eu	1.7	1.0	2.0	2.4	2.2	1.0	1.2
¹⁵³ Eu							

Table D.1 continued

Sample	C15 0-1		C15 3-4				
¹⁵⁷ Gd	5.9	3.8	7.9	12.3	8.4	3.8	4.4
¹⁵⁹ Tb	1.0	0.7	1.2	1.8	1.3	0.7	0.6
¹⁶³ Dy	6.3	4.0	7.5	11.0	9.2	4.3	5.0
¹⁶⁵ Ho	1.4	1.0	1.6	2.4	1.6	0.9	0.8
¹⁶⁶ Er	5.0	3.0	5.6	7.1	5.9	2.3	3.1
¹⁶⁹ Tm	0.6	0.4	0.8	1.0	0.8	0.3	0.4
¹⁷² Yb	4.1	3.1	5.8	6.9	5.1	2.3	2.9
¹⁷⁵ Lu	0.7	0.4	0.8	1.3	0.7	0.4	0.5
¹⁷⁸ Hf	3.2	1.6	4.1	5.7	4.4	2.2	2.1
¹⁸¹ Ta	0.1	0.1	0.1	0.1	0.1	0.1	0.1
¹⁸² W	0.1	0.1	0.0	0.4	0.5	0.0	0.2
²⁰⁸ Pb	5.0	2.6	6.5	7.9	7.7	3.4	3.5
²³² Th	1.4	0.7	2.0	2.2	1.8	0.9	0.9
²³⁸ U	0.5	0.2	0.7	0.9	0.6	0.3	0.3

Table D.1 continued

Sample	C15 3-4		C15 6-7		C15 12-13		
⁴⁵ Sc	43.6	30.9	41.3	37.3	44.6	50.1	39.2
⁴⁷ Ti	8000.0	4293.0	7580.0	7030.0	8240.0	7770.0	6850.0
⁵¹ V	161.7	346.6	392.0	287.0	406.7	467.6	345.8
⁵³ Cr	-3.0	8.0	2.7	1.1	1.6	8.1	-2.4
⁵⁵ Mn	2410.0	1256.0	1743.0	1695.0	1970.0	1818.0	1759.0
⁵⁹ Co							
⁶⁰ Ni	2.4	7.4	4.3	7.5	3.8	10.4	4.9
⁶³ Cu	29.1	117.6	180.0	217.6	114.0	214.6	152.0
⁶⁶ Zn	153.0	64.4	88.5	116.0	109.3	103.2	106.6
⁷¹ Ga	22.6	12.0	15.6	16.4	18.1	16.6	17.5
⁸⁵ Rb	19.7	5.1	11.1	20.6	13.5	12.3	9.5
⁸⁶ Sr	311.0	161.0	219.2	235.3	287.7	269.5	245.4
⁸⁸ Sr							
⁸⁹ Y	46.1	14.6	34.9	37.7	36.1	33.1	32.6
⁹⁰ Zr	113.4	29.1	85.0	110.1	76.3	80.1	64.4
⁹¹ Zr							
⁹³ Nb	0.9	0.3	0.9	1.1	0.8	0.9	0.8
⁹⁵ Mo							
¹³³ Cs	0.8	0.2	0.6	0.9	0.6	0.5	0.5
¹³⁸ Ba	332.0	104.8	207.7	320.0	205.1	207.7	208.4
¹³⁹ La	10.0	2.9	6.4	9.3	6.0	6.3	5.0
¹⁴⁰ Ce	25.1	6.8	14.1	21.7	13.7	14.8	13.1
¹⁴¹ Pr	3.8	1.3	2.2	3.4	2.2	2.2	2.1
¹⁴⁶ Nd	21.1	5.9	13.5	16.9	13.2	13.0	10.8
¹⁴⁷ Sm	5.7	1.9	4.1	4.7	4.0	3.6	3.6
¹⁵¹ Eu	1.9	0.7	1.4	1.2	1.5	1.4	1.3
¹⁵³ Eu							

Table D.1 continued

Sample	C15 3-4		C15 6-7		C15 12-13		
¹⁵⁷ Gd	7.7	2.4	5.0	6.1	5.1	5.1	4.6
¹⁵⁹ Tb	1.0	0.3	0.8	0.9	0.8	1.0	0.7
¹⁶³ Dy	8.1	2.6	5.6	6.5	6.9	5.7	5.6
¹⁶⁵ Ho	1.4	0.5	1.2	1.4	1.2	1.2	1.0
¹⁶⁶ Er	5.1	1.6	4.0	4.5	4.4	3.9	3.6
¹⁶⁹ Tm	0.8	0.2	0.5	0.6	0.5	0.5	0.5
¹⁷² Yb	5.4	1.7	3.4	3.9	3.7	3.3	3.3
¹⁷⁵ Lu	0.9	0.2	0.6	0.6	0.6	0.5	0.6
¹⁷⁸ Hf	3.8	0.9	2.3	3.5	2.2	2.4	2.0
¹⁸¹ Ta	0.1	0.0	0.0	0.1	0.1	0.1	0.0
¹⁸² W	0.4	0.1	0.3	0.3	0.2	0.2	0.1
²⁰⁸ Pb	5.2	1.7	4.1	5.5	3.4	3.2	3.6
²³² Th	1.3	0.4	0.9	1.4	0.9	1.0	0.9
²³⁸ U	0.5	0.2	0.3	0.5	0.3	0.3	0.2

Table D.1 continued

Sample	C15 18-19				C15 22-23		
⁴⁵ Sc	34.8	34.0	50.8	17.8	34.4	39.6	45.3
⁴⁷ Ti	7160.0	6870.0	5330.0	4030.0	6370.0	5930.0	7380.0
⁵¹ V	316.4	342.0	283.7	8.9	278.5	374.0	413.0
⁵³ Cr	3.5	5.1	6.4	2.2	0.8	9.3	6.4
⁵⁵ Mn	1627.0	1656.0	1997.0	1182.0	1637.0	1544.0	1744.0
⁵⁹ Co							
⁶⁰ Ni	6.4	9.7	11.1	0.7	3.0	8.3	9.0
⁶³ Cu	198.1	224.0	92.1	8.5	93.4	153.3	211.0
⁶⁶ Zn	111.1	106.4	91.2	89.4	100.9	84.5	89.5
⁷¹ Ga	19.2	18.2	17.5	14.4	16.5	14.1	17.5
⁸⁵ Rb	21.6	17.2	8.3	32.2	14.4	6.8	8.1
⁸⁶ Sr	231.3	220.3	192.4	160.0	255.6	213.9	267.0
⁸⁸ Sr							
⁸⁹ Y	35.5	31.5	28.4	52.1	31.7	21.7	29.2
⁹⁰ Zr	98.0	84.6	59.3	171.0	81.6	42.6	63.0
⁹¹ Zr							
⁹³ Nb	1.1	1.0	0.5	2.2	0.9	0.5	0.4
⁹⁵ Mo							
¹³³ Cs	0.9	0.8	0.5	1.5	0.5	0.3	0.4
¹³⁸ Ba	306.6	283.2	164.6	422.0	253.0	135.1	168.9
¹³⁹ La	7.7	7.2	5.2	10.4	6.9	4.2	5.9
¹⁴⁰ Ce	20.7	18.9	13.7	31.4	16.2	9.5	11.5
¹⁴¹ Pr	3.3	3.2	2.3	4.2	3.0	1.4	1.9
¹⁴⁶ Nd	15.0	14.9	10.8	22.3	14.1	8.3	11.5
¹⁴⁷ Sm	4.3	4.4	3.0	6.6	4.0	2.5	3.6
¹⁵¹ Eu	1.4	1.4	1.1	1.5	1.3	0.9	1.0
¹⁵³ Eu							

Table D.1 continued

Sample	C15 18-19				C15 22-23		
¹⁵⁷ Gd	5.8	4.6	4.3	6.2	5.0	3.6	4.2
¹⁵⁹ Tb	0.9	0.8	0.7	1.3	0.8	0.6	0.8
¹⁶³ Dy	6.2	4.7	4.9	7.9	5.7	3.6	5.1
¹⁶⁵ Ho	1.3	1.2	1.1	1.6	1.1	0.8	1.2
¹⁶⁶ Er	3.5	3.0	3.4	5.0	3.2	2.5	2.9
¹⁶⁹ Tm	0.6	0.5	0.4	0.8	0.4	0.4	0.5
¹⁷² Yb	3.8	3.7	3.1	5.9	3.3	2.3	3.3
¹⁷⁵ Lu	0.5	0.5	0.5	1.0	0.5	0.3	0.4
¹⁷⁸ Hf	2.7	2.7	2.3	5.3	2.8	1.4	2.5
¹⁸¹ Ta	0.1	0.1	0.0	0.1	0.1	0.1	0.1
¹⁸² W	0.2	0.1	0.2	0.4	0.1	0.2	0.2
²⁰⁸ Pb	5.5	4.5	2.9	7.8	3.3	2.2	4.6
²³² Th	1.4	1.2	0.7	1.8	1.1	0.5	0.8
²³⁸ U	0.5	0.5	0.3	0.7	0.3	0.1	0.2

Table D.1 continued

Sample	C15 22-23				15-32		
⁴⁵ Sc	25.7	32.4	46.5	25.7	39.2	47.0	43.0
⁴⁷ Ti	4190.0	6040.0	7180.0	4190.0	5950.0	7850.0	6820.0
⁵¹ V	211.6	220.0	301.0	211.6	335.0	450.0	435.0
⁵³ Cr	0.8	3.3	0.8	0.8	3.1	2.1	-0.4
⁵⁵ Mn	1096.0	1475.0	1976.0	1096.0	1637.0	1940.0	1647.0
⁵⁹ Co							
⁶⁰ Ni	3.8	4.4	1.1	3.8	5.4	10.3	5.0
⁶³ Cu	91.2	57.1	27.9	91.2	107.1	2.5	153.0
⁶⁶ Zn	61.4	90.0	120.8	61.4	89.5	135.0	103.5
⁷¹ Ga	12.2	15.8	17.3	12.2	13.8	19.3	16.2
⁸⁵ Rb	5.4	17.1	12.9	5.4	9.3	19.8	7.0
⁸⁶ Sr	158.6	255.0	229.2	158.6	202.4	208.0	181.0
⁸⁸ Sr							
⁸⁹ Y	21.3	34.8	35.7	21.3	24.9	31.5	27.7
⁹⁰ Zr	44.6	91.3	79.9	44.6	54.0	79.3	56.1
⁹¹ Zr							
⁹³ Nb	0.4	1.0	0.7	0.4	0.6	0.9	0.6
⁹⁵ Mo							
¹³³ Cs	0.4	0.7	0.6	0.4	0.6	0.7	0.4
¹³⁸ Ba	126.5	294.0	202.0	126.5	152.7	302.0	138.3
¹³⁹ La	3.3	8.3	5.7	3.3	3.9	7.4	3.6
¹⁴⁰ Ce	7.4	19.6	13.6	7.4	10.6	16.7	8.6
¹⁴¹ Pr	1.2	3.2	2.5	1.2	1.7	3.1	1.4
¹⁴⁶ Nd	7.1	15.7	12.1	7.1	8.5	13.4	8.1
¹⁴⁷ Sm	2.3	4.7	4.5	2.3	2.6	3.5	2.3
¹⁵¹ Eu	0.8	1.5	1.3	0.8	1.0	1.6	1.0
¹⁵³ Eu							

Table D.1 continued

Sample	C15 22-23				15-32		
¹⁵⁷ Gd	2.6	5.6	5.2	2.6	3.9	5.1	4.3
¹⁵⁹ Tb	0.5	0.8	0.9	0.5	0.6	0.7	0.7
¹⁶³ Dy	3.6	6.4	5.8	3.6	4.3	4.7	4.6
¹⁶⁵ Ho	0.7	1.4	1.4	0.7	0.8	0.9	0.9
¹⁶⁶ Er	2.1	3.6	4.0	2.1	2.8	4.7	2.7
¹⁶⁹ Tm	0.4	0.5	0.6	0.4	0.5	0.5	0.4
¹⁷² Yb	2.4	3.7	3.9	2.4	2.9	3.7	3.1
¹⁷⁵ Lu	0.3	0.5	0.5	0.3	0.4	0.7	0.5
¹⁷⁸ Hf	1.5	2.9	2.5	1.5	1.7	2.2	1.8
¹⁸¹ Ta	0.0	0.1	0.1	0.0	0.1	0.1	0.0
¹⁸² W	0.2	0.5	0.3	0.2	0.2	0.4	0.5
²⁰⁸ Pb	2.1	4.3	4.1	2.1	2.8	4.1	3.0
²³² Th	0.5	1.3	0.9	0.5	0.6	1.2	0.5
²³⁸ U	0.1	0.4	0.5	0.1	0.2	0.4	0.2

Table D.1 continued

Sample	15-32		C16 48.5-49				
⁴⁵ Sc	37.9	36.0	28.7	67.8	39.2	82.5	35.9
⁴⁷ Ti	6570.0	6300.0	3780.0	10300.0	9530.0	6380.0	6740.0
⁵¹ V	348.0	335.0	41.4	735.0	500.0	597.0	321.6
⁵³ Cr	1.6	0.2	-1.9	12.7	29.2	76.0	1.5
⁵⁵ Mn	1710.0	1750.0	1394.0	2688.0	1831.0	3470.0	1712.0
⁵⁹ Co							
⁶⁰ Ni	4.2	5.7	-0.1	22.6	18.5	74.4	10.5
⁶³ Cu	134.0	128.0	6.9	420.0	225.2	260.0	224.3
⁶⁶ Zn	101.3	94.8	91.7	181.0	97.7	162.0	99.7
⁷¹ Ga	17.7	16.6	15.4	24.2	18.5	14.5	18.7
⁸⁵ Rb	9.3	10.1	12.1	11.4	18.5	4.9	18.9
⁸⁶ Sr	224.0	216.0	177.4	255.3	275.8	114.5	224.3
⁸⁸ Sr							
⁸⁹ Y	29.9	30.2	39.5	42.8	26.5	25.0	35.3
⁹⁰ Zr	64.1	58.1	73.5	75.0	68.0	35.6	96.0
⁹¹ Zr							
⁹³ Nb	0.4	0.6	0.7	0.7	1.4	0.3	1.0
⁹⁵ Mo							
¹³³ Cs	0.6	0.5	0.9	0.8	0.4	0.3	0.9
¹³⁸ Ba	198.0	201.0	286.6	321.0	192.0	108.2	284.0
¹³⁹ La	4.8	4.5	4.5	4.3	7.9	2.2	7.8
¹⁴⁰ Ce	11.9	11.5	12.1	12.2	20.7	5.8	19.3
¹⁴¹ Pr	1.9	1.9	1.9	2.0	3.2	1.0	3.1
¹⁴⁶ Nd	11.4	10.3	10.3	11.7	16.4	5.9	16.0
¹⁴⁷ Sm	3.1	3.6	4.2	4.5	4.7	2.6	4.5
¹⁵¹ Eu	1.4	1.0	1.3	1.5	1.4	0.7	1.4
¹⁵³ Eu							

Table D.1 continued

Sample	15-32		C16 48.5-49				
¹⁵⁷ Gd	4.3	3.7	5.4	6.2	5.9	3.1	5.3
¹⁵⁹ Tb	0.7	0.6	1.0	1.1	0.7	0.6	0.9
¹⁶³ Dy	4.2	4.5	6.2	7.6	5.1	3.9	6.0
¹⁶⁵ Ho	1.1	1.1	1.3	1.7	1.0	1.0	1.2
¹⁶⁶ Er	3.2	2.8	4.2	4.9	3.2	2.6	3.5
¹⁶⁹ Tm	0.4	0.4	0.7	0.8	0.4	0.5	0.5
¹⁷² Yb	3.4	3.2	4.3	4.8	2.7	2.8	3.4
¹⁷⁵ Lu	0.5	0.5	0.8	0.7	0.4	0.5	0.5
¹⁷⁸ Hf	2.0	1.8	2.5	2.8	2.2	1.1	2.8
¹⁸¹ Ta	0.1	0.0	0.1	0.1	0.1	0.0	0.1
¹⁸² W	0.1	0.0	0.3	0.6	0.1	0.1	0.4
²⁰⁸ Pb	3.2	2.9	6.4	4.5	2.4	2.0	5.1
²³² Th	0.6	0.6	0.7	0.5	0.9	0.2	1.3
²³⁸ U	0.3	0.2	0.3	0.2	0.3	0.1	0.4

Table D.1 continued

Sample	C16 152-153			C16 158-159			
⁴⁵ Sc	35.8	22.4	16.2	6.1	7.0	6.0	6.8
⁴⁷ Ti	7230.0	4740.0	2961.0	1144.0	1081.0	1155.0	1175.0
⁵¹ V	201.3	15.6	192.0	80.5	72.4	64.6	67.0
⁵³ Cr	-0.4	2.2	1.4	1.7	1.9	0.5	1.1
⁵⁵ Mn	1989.0	1644.0	724.0	265.5	275.0	287.7	284.4
⁵⁹ Co							
⁶⁰ Ni	0.8	6.5	3.9	2.0	4.0	0.9	1.2
⁶³ Cu	22.0	21.9	64.9	28.8	5.5	29.2	12.4
⁶⁶ Zn	95.4	89.2	41.4	14.9	17.5	17.1	7.0
⁷¹ Ga	16.8	14.3	8.6	2.6	2.0	3.1	2.7
⁸⁵ Rb	13.0	22.4	4.8	1.4	1.4	2.4	1.7
⁸⁶ Sr	269.4	157.8	105.7	34.8	24.4	42.5	41.6
⁸⁸ Sr							
⁸⁹ Y	31.1	52.5	11.5	3.9	3.6	4.9	5.4
⁹⁰ Zr	71.5	136.6	27.0	8.4	8.7	12.5	12.2
⁹¹ Zr							
⁹³ Nb	0.8	1.4	0.3	0.1	0.1	0.2	0.1
⁹⁵ Mo							
¹³³ Cs	0.5	0.9	0.2	0.1	0.1	0.1	0.1
¹³⁸ Ba	240.9	402.0	92.6	29.0	27.8	43.9	33.7
¹³⁹ La	7.1	9.3	2.5	0.7	0.6	1.2	1.0
¹⁴⁰ Ce	18.0	24.4	6.0	1.9	1.6	2.9	2.2
¹⁴¹ Pr	3.0	4.0	1.0	0.3	0.2	0.4	0.4
¹⁴⁶ Nd	14.2	18.9	4.8	1.6	1.4	2.4	2.1
¹⁴⁷ Sm	4.0	6.3	1.6	0.5	0.4	0.7	0.7
¹⁵¹ Eu	1.6	1.8	0.4	0.2	0.2	0.2	0.2
¹⁵³ Eu							

Table D.1 continued

Sample	C16 152-153			C16 158-159			
¹⁵⁷ Gd	4.7	7.0	1.9	0.7	0.6	0.8	1.2
¹⁵⁹ Tb	0.8	1.2	0.3	0.1	0.1	0.1	0.2
¹⁶³ Dy	5.5	8.3	1.9	0.7	0.6	0.9	0.9
¹⁶⁵ Ho	1.1	2.0	0.4	0.2	0.1	0.2	0.2
¹⁶⁶ Er	3.5	6.0	1.3	0.4	0.4	0.5	0.7
¹⁶⁹ Tm	0.5	0.9	0.2	0.1	0.1	0.1	0.1
¹⁷² Yb	3.4	6.3	1.2	0.4	0.5	0.5	0.6
¹⁷⁵ Lu	0.5	1.0	0.2	0.1	0.1	0.1	0.1
¹⁷⁸ Hf	2.3	4.7	1.0	0.3	0.3	0.4	0.4
¹⁸¹ Ta	0.1	0.1	0.0	0.0	0.0	0.0	0.0
¹⁸² W	0.2	0.5	0.1	0.0	0.0	0.0	0.1
²⁰⁸ Pb	3.7	6.8	1.7	0.5	0.5	0.7	0.7
²³² Th	1.0	2.0	0.4	0.1	0.1	0.2	0.2
²³⁸ U	0.3	0.7	0.2	0.0	0.0	0.1	0.1

Table D.1 continued

Sample	16-187						
⁴⁵ Sc	39.8	41.7	31.8	16.6	33.7	23.7	35.5
⁴⁷ Ti	6950.0	3636.0	5350.0	2370.0	4860.0	5050.0	5880.0
⁵¹ V	297.5	264.6	318.0	104.6	291.5	24.7	304.2
⁵³ Cr	0.7	11.3	3.5	0.8	7.2	-1.6	-0.9
⁵⁵ Mn	1704.0	1017.0	1374.0	595.0	1227.0	1503.0	1413.0
⁵⁹ Co							
⁶⁰ Ni	4.2	8.9	7.4	0.3	7.3	1.3	5.9
⁶³ Cu	118.6	54.7	85.0	81.8	84.7	7.3	60.7
⁶⁶ Zn	101.1	47.7	80.8	42.6	69.4	91.5	86.4
⁷¹ Ga	19.2	9.7	15.1	13.2	13.8	17.3	15.6
⁸⁵ Rb	15.3	4.9	10.1	4.2	6.1	18.8	10.3
⁸⁶ Sr	278.1	113.6	207.6	149.9	162.9	204.0	203.2
⁸⁸ Sr							
⁸⁹ Y	39.9	18.2	26.5	14.1	20.2	47.1	27.2
⁹⁰ Zr	99.6	37.0	69.2	22.8	43.5	125.0	62.5
⁹¹ Zr							
⁹³ Nb	1.0	0.4	0.8	0.1	0.3	1.4	0.6
⁹⁵ Mo							
¹³³ Cs	0.7	0.2	0.4	0.4	0.4	0.9	0.6
¹³⁸ Ba	299.6	104.3	212.4	90.7	123.2	358.0	196.7
¹³⁹ La	8.8	2.8	5.6	1.4	3.6	9.1	5.5
¹⁴⁰ Ce	19.1	6.6	13.8	3.6	7.8	21.5	13.2
¹⁴¹ Pr	3.2	1.1	2.1	0.6	1.5	3.4	1.9
¹⁴⁶ Nd	17.0	6.4	11.1	3.7	7.4	17.2	11.3
¹⁴⁷ Sm	5.1	1.8	3.6	1.3	2.4	5.2	3.4
¹⁵¹ Eu	1.6	0.7	1.0	0.4	0.8	1.7	1.0
¹⁵³ Eu							

Table D.1 continued

Sample	16-187						
¹⁵⁷ Gd	6.0	3.0	3.4	2.2	3.4	7.4	4.2
¹⁵⁹ Tb	1.1	0.5	0.7	0.3	0.5	1.1	0.7
¹⁶³ Dy	6.2	3.2	4.4	2.2	3.6	6.8	4.3
¹⁶⁵ Ho	1.5	0.7	1.0	0.5	0.7	1.7	1.1
¹⁶⁶ Er	4.8	2.1	3.0	1.6	1.9	5.5	3.1
¹⁶⁹ Tm	0.6	0.3	0.4	0.2	0.3	0.7	0.4
¹⁷² Yb	4.5	1.5	2.7	1.5	2.2	5.4	3.4
¹⁷⁵ Lu	0.7	0.3	0.5	0.3	0.3	0.8	0.4
¹⁷⁸ Hf	3.1	1.3	2.2	0.7	1.5	3.3	1.7
¹⁸¹ Ta	0.1	0.0	0.1	0.0	0.0	0.1	0.1
¹⁸² W	0.1	0.1	0.4	0.1	0.1	0.3	0.1
²⁰⁸ Pb	4.1	1.8	3.2	2.9	1.7	5.7	3.0
²³² Th	1.3	0.4	0.8	0.2	0.5	1.5	0.9
²³⁸ U	0.4	0.2	0.3	0.1	0.2	0.5	0.3

Table D.1 continued

Sample	C16 206-207					
⁴⁵ Sc	23.8	19.2	12.5	31.1	24.7	38.4
⁴⁷ Ti	4430.0	4370.0	2620.0	6690.0	4130.0	8510.0
⁵¹ V	80.7	21.7	14.3	35.8	288.0	50.5
⁵³ Cr	1.8	0.5	1.0	1.7	13.5	-3.9
⁵⁵ Mn	937.0	1272.0	893.0	1999.0	963.0	2510.0
⁵⁹ Co						
⁶⁰ Ni	0.0	0.9	0.6	0.6	5.0	0.7
⁶³ Cu	69.0	1.6	6.4	8.7	174.7	9.0
⁶⁶ Zn	88.0	73.6	42.1	103.9	62.4	92.0
⁷¹ Ga	11.3	11.7	8.3	20.5	12.1	24.9
⁸⁵ Rb	14.1	13.4	8.0	20.4	5.0	27.2
⁸⁶ Sr	148.0	158.9	245.0	249.0	135.1	329.0
⁸⁸ Sr						
⁸⁹ Y	35.9	35.6	21.8	55.5	13.4	76.4
⁹⁰ Zr	75.1	94.2	53.4	140.4	21.7	196.0
⁹¹ Zr						
⁹³ Nb	0.8	1.0	0.7	1.6	0.2	1.9
⁹⁵ Mo						
¹³³ Cs	1.1	0.7	0.4	1.2	0.4	1.3
¹³⁸ Ba	294.0	271.0	157.0	409.0	73.2	510.0
¹³⁹ La	5.4	6.7	4.4	10.4	1.7	14.3
¹⁴⁰ Ce	14.8	17.7	10.8	26.5	4.5	34.6
¹⁴¹ Pr	2.4	2.7	1.8	4.1	0.8	6.0
¹⁴⁶ Nd	11.3	13.8	7.9	22.4	4.2	27.6
¹⁴⁷ Sm	3.5	4.7	2.7	6.7	1.3	8.1
¹⁵¹ Eu	1.1	1.4	0.8	1.9	0.5	2.8
¹⁵³ Eu						

Table D.1 continued

Sample	C16 206-207					
¹⁵⁷ Gd	5.4	4.8	3.1	8.1	1.7	11.7
¹⁵⁹ Tb	0.9	0.9	0.5	1.3	0.3	1.9
¹⁶³ Dy	6.6	5.8	3.5	10.0	2.6	14.0
¹⁶⁵ Ho	1.5	1.2	0.7	1.8	0.5	2.7
¹⁶⁶ Er	3.7	3.9	2.1	6.2	1.7	7.4
¹⁶⁹ Tm	0.6	0.6	0.4	1.0	0.2	1.3
¹⁷² Yb	4.1	3.7	2.1	6.7	1.4	8.9
¹⁷⁵ Lu	0.6	0.5	0.3	0.9	0.2	1.3
¹⁷⁸ Hf	2.7	2.5	1.6	4.2	0.7	6.0
¹⁸¹ Ta	0.1	0.1	0.0	0.1	0.0	0.1
¹⁸² W	0.4	0.2	0.3	0.5	0.1	0.5
²⁰⁸ Pb	7.1	3.8	2.5	6.2	1.9	7.2
²³² Th	0.9	1.2	0.7	1.8	0.1	2.7
²³⁸ U	0.3	0.4	0.2	0.6	0.1	0.8

Table D.1 continued

Sample	C16 214-215		C16 238-239	
⁴⁵ Sc	7.0	7.7	14.4	7.1
⁴⁷ Ti	1419.0	1611.0	1520.0	1174.0
⁵¹ V	29.4	2.7	12.0	13.3
⁵³ Cr	0.2	1.9	0.7	0.1
⁵⁵ Mn	391.0	516.0	853.0	426.0
⁵⁹ Co				
⁶⁰ Ni	0.2	0.0	0.4	-0.1
⁶³ Cu	11.8	3.7	6.3	1.8
⁶⁶ Zn	22.1	17.1	35.3	30.7
⁷¹ Ga	4.3	5.3	4.6	4.0
⁸⁵ Rb	4.0	7.0	4.9	1.5
⁸⁶ Sr	51.9	73.7	46.4	51.7
⁸⁸ Sr				
⁸⁹ Y	10.0	19.9	17.7	8.7
⁹⁰ Zr	25.1	52.8	33.1	15.5
⁹¹ Zr				
⁹³ Nb	0.3	0.5	0.3	0.1
⁹⁵ Mo				
¹³³ Cs	0.2	0.3	0.5	0.2
¹³⁸ Ba	73.1	138.2	101.9	54.4
¹³⁹ La	2.2	4.2	2.1	0.9
¹⁴⁰ Ce	5.3	8.8	5.1	2.7
¹⁴¹ Pr	0.8	1.4	0.8	0.4
¹⁴⁶ Nd	4.2	7.8	5.5	2.6
¹⁴⁷ Sm	1.3	2.3	1.8	0.8
¹⁵¹ Eu	0.4	0.5	0.5	0.3
¹⁵³ Eu				

Table D.1 continued

Sample	C16 214-215		C16 238-239	
¹⁵⁷ Gd	1.5	2.8	2.3	1.3
¹⁵⁹ Tb	0.2	0.5	0.5	0.2
¹⁶³ Dy	1.7	3.4	2.9	1.4
¹⁶⁵ Ho	0.3	0.7	0.5	0.3
¹⁶⁶ Er	1.1	2.2	2.0	0.9
¹⁶⁹ Tm	0.2	0.3	0.3	0.1
¹⁷² Yb	1.0	2.1	1.7	1.0
¹⁷⁵ Lu	0.2	0.3	0.4	0.2
¹⁷⁸ Hf	0.8	1.6	1.2	0.6
¹⁸¹ Ta	0.0	0.1	0.0	0.0
¹⁸² W	0.1	0.1	0.1	0.1
²⁰⁸ Pb	1.3	2.6	2.2	1.1
²³² Th	0.3	0.7	0.3	0.1
²³⁸ U	0.1	0.2	0.1	0.0