Volume 120B
Chapter 10

Table 3

Table 3. Major element concentrations of plagioclase from Kerguelen Plateau tephra layers.

Layer	L 1	L 1	L 1	L 1	L 1	L 1	L 1	L 1	L 1	L 1	L 1	L 1	L 1	L 1	L 1	L 2
Leg	119	119	119	119	119	119	119	119	119	119	119	119	119	119	119	119
Hole	736 A	736 A	736 A	736 A	736 A	736 A	736 A	736 A	736 A	736 A	736 A	736 A	736 A	736 A	736 A	736 A
Core, Section	3H-1	3H-1	3H-1	3H-1	3H-1	3H-1	3H-1	3H-1	3H-1	3H-1	3H-1	3H-1	3H-1	3H-1	3H-1	3H-2
Interval (cm)	130-132	130-132	130-132	130-132	130-132	130-132	130-132	130-132	130-132	130-132	130-132	130-132	130-132	130-132	130-132	24-26
SiO_2	65.85	65.86	66.02	66.02	65.63	66.49	47.34	52.93	64.40	57.35	66.28	48.10	66.76	63.03	62.83	55.17
TiO_2	0.00	0.03	0.04	0.00	0.01	0.00	0.06	0.08	0.01	0.05	0.00	0.06	0.03	0.00	0.25	0.14
Al_2O_3	19.10	18.92	19.25	19.28	19.13	19.19	32.28	29.22	21.26	26.13	19.15	31.91	19.45	21.32	21.11	26.13
Fe_2O_3	0.18	0.00	0.00	0.00	0.00	0.19	0.63	0.15	0.30	0.35	0.21	0.70	0.00	0.42	0.00	1.38
FeO	0.00	0.11	0.20	0.09	0.33	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.21	0.00	0.46	0.17
MgO	0.00	0.00	0.00	0.01	0.02	0.00	0.10	0.01	0.00	0.02	0.01	0.03	0.00	0.00	0.05	0.19
CaO	0.00	0.00	0.03	0.08	0.14	0.00	16.06	11.94	2.39	7.95	0.00	15.65	0.27	0.06	2.53	9.83
Na_2O	6.97	6.33	6.08	6.22	5.90	7.01	2.22	4.46	7.66	6.25	7.01	2.51	7.65	8.39	6.01	5.33
K_2O	6.69	7.33	7.71	7.45	7.88	6.80	0.13	0.29	3.84	1.05	6.69	0.12	5.51	6.12	5.55	0.70
Total	98.79	98.58	99.33	99.16	99.04	99.68	98.82	99.33	99.87	99.15	99.35	99.07	99.89	99.33	98.78	99.05
Si	11.91	11.99	11.94	11.95	11.92	11.92	8.79	9.66	11.50	10.38	11.93	8.90	11.92	11.19	11.44	10.10
Ti	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.01	0.00	0.01	0.00	0.00	0.03	0.02
Al	4.07	4.06	4.10	4.11	4.09	4.06	7.06	6.28	4.47	5.58	4.06	6.96	4.09	4.46	4.53	5.64
Fe^{3+}	0.02	0.00	0.00	0.00	0.00	0.03	0.09	0.02	0.04	0.05	0.03	0.10	0.00	0.06	0.00	0.19
Fe^{2+}	0.00	0.02	0.03	0.01	0.05	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.03	0.00	0.07	0.03
Mg	0.00	0.00	0.00	0.00	0.01	0.00	0.03	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.01	0.05
Ca	0.00	0.00	0.00	0.02	0.03	0.00	3.19	2.34	0.46	1.54	0.00	3.10	0.05	0.01	0.49	1.93
Na	2.45	2.23	2.13	2.18	2.08	2.44	0.80	1.58	2.65	2.19	2.45	0.90	2.65	2.89	2.12	1.89
K	1.54	1.70	1.78	1.72	1.82	1.55	0.03	0.07	0.88	0.24	1.54	0.03	1.26	1.39	1.29	0.16
Sum Z	15.98	16.04	16.05	16.06	16.01	15.98	15.85	15.94	15.97	15.96	15.99	15.86	16.01	15.66	15.98	15.73
Sum X	3.99	3.94	3.92	3.92	3.93	3.99	4.03	3.98	3.98	3.98	3.98	4.03	3.96	4.29	3.91	3.98
OR	38.70	43.24	45.42	43.89	46.42	38.93	0.79	1.70	21.97	6.12	38.58	0.71	31.75	32.34	33.02	4.10
AB	61.30	56.76	54.46	55.69	52.87	61.07	19.85	39.67	66.56	55.12	61.42	22.37	66.95	67.40	54.32	47.48
AN	0.00	0.00	0.12	0.42	0.71	0.00	79.36	58.64	11.47	38.76	0.00	76.93	1.31	0.26	12.66	48.42

Layer	L 2	L 2	L 2	L 2	L 2	L 2	L 2	L 2	L 2	L 2	L 3	L 3	L 3	L 3	L 3	L 3
Leg	119	119	119	119	119	119	119	119	119	119	119	119	119	119	119	119
Hole	736 A	736 A	736 A	736 A	736 A	736 A	736 A	736 A	736 A	736 A	736 A	736 A	736 A	736 A	736 A	736 A
Core, Section	3H-2	3H-2	3H-2	3H-2	3H-2	3H-2	3H-2	3H-2	3H-2	3H-2	6H-1	6H-1	6H-1	6H-1	6H-1	6H-1
Interval [cm]	24-26	24-26	24-26	24-26	24-26	24-26	24-26	24-26	24-26	24-26	44-46	44-46	44-46	44-46	44-46	44-46
SiO_2	67.08	67.64	68.55	50.83	54.98	67.23	54.59	66.98	67.32	65.04	68.15	65.57	65.70	49.81	52.00	65.66
TiO_2	0.01	0.02	0.03	0.08	0.16	0.01	0.10	0.01	0.00	0.01	0.01	0.02	0.04	0.06	0.10	0.01
Al_2O_3	18.09	19.84	19.20	29.61	26.32	18.49	27.21	18.89	17.28	17.96	19.02	19.05	19.03	30.31	28.90	19.26
Fe_2O_3	0.72	0.01	0.00	0.57	0.48	0.05	0.68	0.00	0.00	0.15	0.32	0.05	0.00	0.86	0.58	0.11
FeO	0.00	0.00	0.10	0.00	0.87	0.16	0.26	0.06	0.20	0.00	0.00	0.11	0.25	0.00	0.17	0.00
MgO	0.00	0.00	0.00	0.16	0.13	0.00	0.06	0.00	0.00	0.01	0.00	0.00	0.01	0.12	0.16	0.01
CaO	0.00	0.62	0.03	13.70	9.91	0.00	10.78	0.00	0.00	0.00	0.00	0.00	0.02	14.42	12.70	0.19
Na_2O	8.62	11.34	11.35	3.58	5.28	8.48	5.11	9.50	4.57	1.95	11.68	5.78	6.70	3.20	4.06	6.40
K_2O	4.66	0.15	0.35	0.18	0.51	4.67	0.42	3.05	9.67	14.07	0.16	8.26	6.84	0.14	0.24	7.28
Total	99.17	99.62	99.61	98.70	98.64	99.09	99.22	98.49	99.05	99.20	99.34	98.84	98.58	98.92	98.91	98.92
Si	12.02	11.88	12.05	9.39	10.10	12.05	9.97	12.00	12.35	12.04	11.99	11.93	11.93	9.20	9.57	11.90
Ti	0.00	0.00	0.00	0.01	0.02	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.00
Al	3.82	4.11	3.98	6.44	5.70	3.91	5.85	3.99	3.73	3.92	3.94	4.09	4.07	6.60	6.26	4.11
Fe^{3+}	0.10	0.00	0.00	0.08	0.07	0.01	0.09	0.00	0.00	0.02	0.04	0.01	0.00	0.12	0.08	0.02
Fe^{2+}	0.00	0.00	0.01	0.00	0.13	0.02	0.04	0.01	0.03	0.00	0.00	0.02	0.04	0.00	0.03	0.00
Mg	0.00	0.00	0.00	0.05	0.04	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.04	0.00
Ca	0.00	0.12	0.01	2.71	1.95	0.00	2.11	0.00	0.00	0.00	0.00	0.00	0.00	2.85	2.50	0.04
Na	2.99	3.86	3.87	1.28	1.88	2.95	1.81	3.30	1.63	0.70	3.98	2.04	2.36	1.15	1.45	2.25
K	1.06	0.03	0.08	0.04	0.12	1.07	0.10	0.70	2.26	3.32	0.03	1.92	1.59	0.03	0.06	1.68
Sum Z	15.84	15.98	16.03	15.83	15.79	15.95	15.82	15.99	16.08	15.95	15.94	16.02	16.01	15.81	15.83	16.01
Sum X	4.06	4.01	3.95	4.03	3.95	4.01	4.02	4.00	3.89	4.02	4.02	3.96	3.95	4.03	4.01	3.97
OR	26.22	0.86	1.98	1.03	3.04	26.59	2.42	17.42	58.20	82.62	0.87	48.46	40.16	0.80	1.40	42.41
AB	73.78	96.22	97.85	31.77	47.60	73.41	45.08	82.58	41.80	17.38	99.13	51.54	59.75	28.42	36.12	56.66
AN	0.00	2.92	0.17	67.20	49.37	0.00	52.50	0.00	0.00	0.00	0.00	0.00	0.09	70.78	62.48	0.93

Layer	L 3	L 3	L 3	L 3	L 3	L 3	L 3	L 3	L 4	L 4	L 4	L 4	L 4	L 4	L 4	L 4
Leg	119	119	119	119	119	119	119	119	119	119	119	119	119	119	119	119
Hole	736 A	736 A	736 A	736 A	736 A	736 A	736 A	736 A	736 A	736 A	736 A	736 A	736 A	736 A	736 A	736 A
Core, Section	6H-1	6H-1	6H-1	6H-1	6H-1	6H-1	6H-1	6H-1	7H-1	7H-1	7H-1	7H-1	7H-1	7H-1	7H-1	7H-1
Interval [cm]	44-46	44-46	44-46	44-46	44-46	44-46	44-46	44-46	10-12	10-12	10-12	10-12	10-12	10-12	10-12	10-12
SiO_2	66.05	66.05	54.21	44.59	66.27	55.38	54.96	50.59	66.33	66.31	66.50	66.73	66.50	65.82	66.37	67.14
TiO_2	0.04	0.05	0.04	0.01	0.05	0.03	0.16	0.11	0.03	0.05	0.04	0.03	0.05	0.14	0.01	0.02
Al_2O_3	19.21	19.10	27.79	34.00	19.05	27.77	26.90	29.90	18.92	18.63	19.10	18.81	18.88	19.05	18.61	18.60
Fe_2O_3	0.00	0.18	0.00	0.90	0.00	0.00	1.01	0.75	0.02	0.30	0.00	0.33	0.13	0.00	0.00	0.00
FeO	0.16	0.03	0.85	0.00	0.22	0.09	0.00	0.03	0.26	0.00	0.31	0.00	0.30	0.21	0.32	0.45
MgO	0.00	0.00	0.09	0.02	0.02	0.02	0.09	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00
CaO	0.04	0.01	11.49	18.32	0.00	10.15	10.28	13.81	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.00
Na_2O	6.11	6.41	4.76	0.99	6.26	5.70	5.32	3.47	6.51	6.34	6.21	6.89	6.90	6.15	6.74	7.04
K_2O	7.79	7.46	0.10	0.02	7.42	0.07	0.55	0.21	7.34	7.84	7.51	7.01	6.78	7.64	6.87	6.61
Total	99.41	99.29	99.34	98.86	99.28	99.21	99.27	99.00	99.40	99.47	99.68	99.79	99.54	99.15	98.94	99.86
Si	11.93	11.93	9.90	8.34	11.99	10.04	10.02	9.33	11.97	11.97	11.99	11.97	11.96	11.93	12.02	12.04
Ti	0.00	0.01	0.01	0.00	0.01	0.00	0.02	0.02	0.00	0.01	0.01	0.00	0.01	0.02	0.00	0.00
Al	4.09	4.07	5.98	7.49	4.06	5.94	5.78	6.50	4.02	3.96	4.06	3.98	4.00	4.07	3.97	3.93
Fe^{3+}	0.00	0.02	0.00	0.13	0.00	0.00	0.14	0.10	0.00	0.04	0.00	0.05	0.02	0.00	0.00	0.00
Fe^{2+}	0.02	0.00	0.13	0.00	0.03	0.01	0.00	0.00	0.04	0.00	0.05	0.00	0.04	0.03	0.05	0.07
Mg	0.00	0.00	0.03	0.01	0.01	0.01	0.03	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
Ca	0.01	0.00	2.25	3.67	0.00	1.97	2.01	2.73	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00
Na	2.14	2.25	1.69	0.36	2.20	2.01	1.88	1.24	2.28	2.22	2.17	2.40	2.41	2.16	2.37	2.45
K	1.80	1.72	0.02	0.00	1.71	0.02	0.13	0.05	1.69	1.80	1.73	1.60	1.56	1.77	1.59	1.51
Sum Z	16.02	16.00	15.88	15.83	16.05	15.98	15.80	15.82	15.99	15.93	16.05	15.95	15.97	16.00	15.99	15.97
Sum X	3.95	3.97	3.96	4.03	3.91	4.00	4.01	4.02	3.97	4.02	3.90	4.00	3.96	3.95	3.95	3.96
OR	45.53	43.36	0.60	0.11	43.80	0.42	3.18	1.21	42.59	44.86	44.32	40.11	39.27	44.67	40.16	38.16
AB	54.26	56.62	42.60	8.89	56.20	50.20	46.81	30.86	57.41	55.14	55.68	59.89	60.73	54.65	59.84	61.84
AN	0.21	0.03	56.81	90.99	0.00	49.38	50.01	67.93	0.00	0.00	0.00	0.00	0.00	0.68	0.00	0.00

Layer	L 4	L 4	L 4	L 4	L 4	L 10	L 10	L 10	L 10	L 10	L 10	L 10	L 11	L 11	L 11	L 11
Leg	119	119	119	119	119	119	119	119	119	119	119	119	119	119	119	119
Hole	736 A	736 A	736 A	736 A	736 A	737 A	737 A	737 A	737 A	737 A	737 A	737 A	737 B	737 B	737 B	737 B
Core, Section	7H-1	7H-1	7H-1	7H-1	7H-1	9H-4	9H-4	9H-4	9H-4	9H-4	9H-4	9H-4	5R-1	5R-1	5R-1	5R-1
Interval [cm]	10-12	10-12	10-12	10-12	10-12	76-78	76-78	76-78	76-78	76-78	76-78	76-78	122-124	122-124	122-124	122-124
SiO_2	66.76	54.34	65.98	66.88	66.50	66.57	66.83	67.04	67.11	66.59	66.39	66.78	66.55	65.96	66.12	67.35
TiO_2	0.02	0.23	0.03	0.01	0.04	0.00	0.01	0.03	0.02	0.03	0.08	0.01	0.06	0.07	0.02	0.01
Al_2O_3	18.77	26.83	19.29	18.98	19.41	18.57	18.78	18.65	18.67	18.97	19.20	18.86	18.97	19.33	19.19	18.57
Fe_2O_3	0.15	1.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FeO	0.16	0.00	0.14	0.30	0.18	0.31	0.32	0.37	0.38	0.22	0.28	0.29	0.18	0.14	0.16	0.36
MgO	0.00	0.18	0.01	0.00	0.00	0.01	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.01	0.00	0.01
CaO	0.00	10.83	0.23	0.00	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.02	0.00
Na_2O	7.14	5.19	5.97	6.95	7.08	6.72	6.71	6.73	6.59	6.44	6.37	6.65	6.44	5.93	6.00	7.08
K_2O	6.53	0.32	7.87	6.76	6.36	6.71	7.02	7.14	7.23	7.23	7.22	7.15	7.22	7.91	7.96	6.70
Total	99.54	99.19	99.53	99.87	99.79	98.90	99.67	99.95	100.02	99.49	99.53	99.74	99.41	99.49	99.47	100.08
Si	11.99	9.93	11.92	11.98	11.91	12.07	12.02	12.02	12.04	12.01	11.98	12.00	12.01	11.92	11.95	12.04
Ti	0.00	0.03	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.01	0.00	0.00
Al	3.97	5.78	4.11	4.01	4.10	3.97	3.98	3.94	3.95	4.03	4.08	4.00	4.04	4.12	4.09	3.91
Fe^{3+}	0.02	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fe^{2+}	0.02	0.00	0.02	0.05	0.03	0.05	0.05	0.06	0.06	0.03	0.04	0.04	0.03	0.02	0.02	0.05
Mg	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ca	0.00	2.12	0.05	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00
Na	2.49	1.84	2.09	2.42	2.46	2.36	2.34	2.34	2.29	2.25	2.23	2.32	2.25	2.08	2.10	2.46
K	1.50	0.07	1.81	1.54	1.45	1.55	1.61	1.63	1.65	1.66	1.66	1.64	1.66	1.82	1.84	1.53
Sum Z	15.97	15.71	16.02	15.99	16.01	16.04	16.00	15.97	15.99	16.05	16.06	16.00	16.05	16.04	16.03	15.96
Sum X	3.99	4.03	3.95	3.96	3.96	3.91	3.95	3.97	3.95	3.92	3.89	3.96	3.92	3.93	3.94	3.98
OR	37.58	1.86	45.91	39.00	36.74	39.68	40.76	41.12	41.93	42.50	42.73	41.44	42.45	46.45	46.57	38.35
AB	62.42	45.59	52.95	61.00	62.14	60.32	59.24	58.88	58.07	57.50	57.27	58.56	57.55	52.87	53.34	61.65
AN	0.00	52.55	1.14	0.00	1.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.68	0.10	0.00

Layer	L 11	L 11	L 11	L 11	L 11	L 11	L 11	L 11	L 11	L 11	L 11	L 11	L 12	L 12	L 12	L 12
Leg	119	119	119	119	119	119	119	119	119	119	119	119	119	119	119	119
Hole	737 B	737 B	737 B	737 B	737 B	737 B	737 B	737 B	737 B	737 B	737 B	737 B	737 B	737 B	737 B	737 B
Core, Section	5R-1	5R-1	5R-1	5R-1	5R-1	5R-1	5R-1	5R-1	5R-1	5R-1	5R-1	5R-1	5R-1	5R-1	5R-1	5R-1
Interval [cm]	122-124	122-124	122-124	122-124	122-124	122-124	122-124	122-124	122-124	122-124	122-124	122-124	127-128	127-128	127-128	127-128
SiO_2	66.49	54.45	55.55	53.68	53.46	53.03	53.57	48.34	48.64	47.57	64.67	65.44	65.76	65.63	64.67	64.80
TiO_2	0.03	0.14	0.20	0.16	0.13	0.16	0.08	0.07	0.05	0.05	0.00	0.06	0.00	0.02	0.04	0.02
Al_2O_3	19.14	27.37	26.59	28.22	27.97	27.62	28.07	31.89	31.45	32.40	18.19	18.92	18.91	18.72	19.49	19.09
Fe_2O_3	0.00	0.95	0.55	0.28	0.08	0.00	0.00	0.61	0.54	0.62	0.39	0.13	0.27	0.14	0.18	0.25
FeO	0.19	0.03	0.59	0.61	0.75	1.17	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00
MgO	0.00	0.05	0.09	0.16	0.21	0.49	0.20	0.10	0.12	0.10	0.00	0.01	0.01	0.00	0.00	0.01
CaO	0.00	10.62	9.51	11.74	11.66	11.80	11.39	15.51	15.13	15.88	0.00	0.04	0.00	0.00	0.30	0.00
Na_2O	6.36	5.17	5.56	4.59	4.54	4.19	4.71	2.56	2.77	2.33	2.13	6.33	6.91	6.57	6.48	6.42
K_2O	7.29	0.43	0.53	0.27	0.27	0.31	0.08	0.04	0.03	0.03	13.86	7.63	6.76	7.10	7.01	7.25
Total	99.50	99.21	99.17	99.71	99.06	98.76	98.94	99.12	98.73	98.99	99.24	98.56	98.62	98.32	98.17	97.84
Si	12.00	9.94	10.12	9.77	9.79	9.77	9.82	8.93	9.01	8.81	11.95	11.90	11.92	11.96	11.80	11.87
Ti	0.00	0.02	0.03	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.00	0.01	0.00	0.00	0.01	0.00
Al	4.07	5.89	5.71	6.06	6.04	6.00	6.06	6.95	6.87	7.07	3.96	4.06	4.04	4.02	4.19	4.12
Fe^{3+}	0.00	0.13	0.07	0.04	0.01	0.00	0.00	0.08	0.08	0.09	0.05	0.02	0.04	0.02	0.03	0.03
Fe^{2+}	0.03	0.00	0.09	0.09	0.11	0.18	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00
Mg	0.00	0.01	0.03	0.04	0.06	0.13	0.05	0.03	0.03	0.03	0.00	0.00	0.00	0.00	0.00	0.00
Ca	0.00	2.08	1.86	2.29	2.29	2.33	2.24	3.07	3.00	3.15	0.00	0.01	0.00	0.00	0.06	0.00
Na	2.22	1.83	1.97	1.62	1.61	1.50	1.67	0.92	1.00	0.84	0.76	2.23	2.43	2.32	2.29	2.28
K	1.68	0.10	0.12	0.06	0.06	0.07	0.02	0.01	0.01	0.01	3.27	1.77	1.56	1.65	1.63	1.69
Sum Z	16.07	15.83	15.84	15.83	15.84	15.77	15.88	15.88	15.88	15.88	15.91	15.96	15.97	15.99	15.99	15.99
Sum X	3.90	4.01	3.95	3.97	3.97	3.90	3.93	4.00	4.01	4.00	4.03	4.01	3.99	3.97	3.98	3.97
OR	42.99	2.48	3.12	1.61	1.58	1.90	0.46	0.21	0.17	0.20	81.03	44.13	39.15	41.54	40.97	42.64
AB	57.01	45.70	49.83	40.76	40.68	38.36	42.58	22.94	24.86	20.96	18.97	55.66	60.85	58.46	57.56	57.36
AN	0.00	51.81	47.06	57.64	57.74	59.75	56.97	76.84	74.97	78.84	0.00	0.22	0.00	0.00	1.48	0.00

Layer	L 12	L 13	L 13	L 13	L 13	L 13	L 13	L 13	L 13	L 13	L 14	L 14	L 14	L 15	L 15	L 15
Leg	119	119	119	119	119	119	119	119	119	119	119	119	119	119	119	119
Hole	737 B	737 B	737 B	737 B	737 B	737 B	737 B	737 B	737 B	737 B	737 B	737 B	737 B	737 B	737 B	737 B
Core, Section	5R-1	15R-4	15R-4	15R-4	15R-4	15R-4	15R-4	15R-4	15R-4	15R-4	21R-1	21R-1	21R-1	22R-6	22R-6	22R-6
Interval [cm]	127-128	66-69	66-69	66-69	66-69	66-69	66-69	66-69	66-69	66-69	120-122	120-122	120-122	115-117	115-117	115-117
SiO_2	65.82	52.07	51.56	53.26	52.45	49.77	53.93	49.80	54.26	52.29	53.56	50.95	54.03	50.68	51.11	68.57
TiO_2	0.02	0.14	0.06	0.08	0.13	0.08	0.11	0.08	0.13	0.11	0.10	0.12	0.10	0.10	0.08	0.07
Al_2O_3	18.82	29.15	29.07	28.43	29.11	30.81	28.24	31.12	27.46	29.31	28.81	29.92	28.33	30.57	30.11	19.49
Fe_2O_3	0.18	0.56	0.75	0.00	0.00	0.75	0.90	0.02	0.59	0.00	0.00	0.61	0.00	0.79	0.77	0.00
FeO	0.10	0.19	0.00	0.92	0.56	0.00	0.14	0.59	0.37	0.63	0.72	0.08	0.70	0.00	0.00	0.12
MgO	0.01	0.13	0.15	0.11	0.16	0.15	0.14	0.14	0.17	0.14	0.15	0.19	0.08	0.16	0.18	0.00
CaO	0.00	13.28	13.23	11.88	12.92	14.79	11.89	14.98	11.28	13.14	12.92	13.89	11.81	14.28	13.82	0.59
Na_2O	6.57	3.93	3.97	4.43	3.90	3.08	4.65	2.52	4.92	3.88	4.13	3.45	4.64	3.33	3.63	10.72
K_2O	7.16	0.19	0.16	0.22	0.22	0.14	0.33	0.61	0.28	0.18	0.18	0.25	0.23	0.22	0.19	0.73
Total	98.68	99.64	98.95	99.34	99.44	99.57	100.32	99.85	99.46	99.74	100.56	99.46	99.93	100.13	99.90	100.30
Si	11.96	9.52	9.48	9.74	9.60	9.14	9.76	9.14	9.89	9.55	9.69	9.35	9.81	9.24	9.33	12.02
Ti	0.00	0.02	0.01	0.01	0.02	0.01	0.01	0.01	0.02	0.02	0.01	0.02	0.01	0.01	0.01	0.01
Al	4.03	6.28	6.30	6.13	6.28	6.67	6.03	6.73	5.90	6.31	6.15	6.47	6.06	6.57	6.48	4.03
Fe^{3+}	0.03	0.08	0.10	0.00	0.00	0.10	0.12	0.00	0.08	0.00	0.00	0.08	0.00	0.11	0.11	0.00
Fe^{2+}	0.02	0.03	0.00	0.14	0.09	0.00	0.02	0.09	0.06	0.10	0.11	0.01	0.11	0.00	0.00	0.02
Mg	0.00	0.03	0.04	0.03	0.04	0.04	0.04	0.04	0.05	0.04	0.04	0.05	0.02	0.04	0.05	0.00
Ca	0.00	2.60	2.61	2.33	2.53	2.91	2.31	2.95	2.20	2.57	2.51	2.73	2.30	2.79	2.70	0.11
Na	2.31	1.39	1.42	1.57	1.38	1.10	1.63	0.90	1.74	1.37	1.45	1.23	1.63	1.18	1.28	3.65
K	1.66	0.04	0.04	0.05	0.05	0.03	0.08	0.14	0.06	0.04	0.04	0.06	0.05	0.05	0.05	0.16
Sum Z	15.98	15.80	15.79	15.87	15.88	15.81	15.79	15.87	15.79	15.86	15.84	15.82	15.87	15.81	15.80	16.05
Sum X	3.97	4.04	4.06	3.95	3.97	4.04	4.01	3.98	4.01	3.99	4.00	4.02	3.98	4.02	4.03	3.92
OR	41.75	1.11	0.92	1.32	1.31	0.80	1.87	3.60	1.62	1.06	1.05	1.44	1.37	1.26	1.12	4.17
AB	58.25	34.49	34.90	39.79	34.87	27.18	40.63	22.47	43.38	34.47	36.24	30.55	41.00	29.29	31.85	93.02
AN	0.00	64.41	64.19	58.88	63.82	72.02	57.50	73.93	55.00	64.46	62.71	68.01	57.63	69.45	67.03	2.81

Layer	L 15	L 15	L 15	L 15	L 15	L 15	L 15	L 16	L 16	L 16	L 16	L 16	L 16	L 16	L 16	L 16
Leg	119	119	119	119	119	119	119	119	119	119	119	119	119	119	119	119
Hole	737 B	737 B	737 B	737 B	737 B	737 B	737 B	737 B	737 B	737 B	737 B	737 B	737 B	737 B	737 B	737 B
Core, Section	22R-6	22R-6	22R-6	22R-6	22R-6	22R-6	22R-6	23R-1	23R-1	23R-1	23R-1	23R-1	23R-1	23R-1	23R-1	23R-1
Interval [cm]	115-117	115-117	115-117	115-117	115-117	115-117	115-117	28-30	28-30	28-30	28-30	28-30	28-30	28-30	28-30	28-30
SiO_2	51.42	52.13	51.79	52.26	53.21	52.31	51.53	61.77	62.68	53.24	61.38	62.72	61.28	60.22	62.03	61.24
TiO_2	0.07	0.08	0.08	0.12	0.12	0.08	0.08	0.05	0.02	0.09	0.01	0.02	0.03	0.05	0.01	0.01
Al_2O_3	30.01	29.81	29.49	29.53	28.83	29.44	29.58	22.70	22.46	28.42	23.38	22.48	23.37	23.84	23.07	23.31
Fe_2O_3	0.42	0.01	0.78	0.11	0.00	0.48	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FeO	0.28	0.62	0.00	0.60	0.62	0.22	0.38	0.35	0.39	0.67	0.40	0.37	0.36	0.61	0.36	0.31
MgO	0.16	0.17	0.15	0.19	0.16	0.21	0.15	0.00	0.00	0.14	0.01	0.00	0.01	0.03	0.00	0.01
CaO	13.68	13.34	13.29	13.15	12.42	13.09	13.37	5.05	4.45	11.90	5.30	4.64	5.56	6.29	4.95	5.45
Na_2O	3.60	3.77	4.04	3.85	4.22	3.96	3.73	7.06	7.37	4.20	7.62	7.78	7.30	7.03	7.61	7.39
K_2O	0.19	0.20	0.21	0.23	0.22	0.20	0.18	1.47	1.77	0.24	0.80	0.91	0.77	0.71	0.90	0.78
Total	99.83	100.13	99.82	100.03	99.80	99.99	99.38	98.45	99.13	98.88	98.90	98.91	98.67	98.79	98.94	98.51
Si	9.39	9.48	9.44	9.51	9.69	9.52	9.45	11.25	11.31	9.79	11.08	11.33	11.12	10.93	11.20	11.12
Ti	0.01	0.01	0.01	0.02	0.02	0.01	0.01	0.01	0.00	0.01	0.00	0.00	0.00	0.01	0.00	0.00
Al	6.46	6.39	6.33	6.34	6.19	6.31	6.39	4.87	4.78	6.16	4.97	4.79	5.00	5.10	4.91	4.99
Fe^{3+}	0.06	0.00	0.11	0.01	0.00	0.07	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fe^{2+}	0.04	0.09	0.00	0.09	0.09	0.03	0.06	0.05	0.06	0.10	0.06	0.06	0.05	0.09	0.05	0.05
Mg	0.04	0.05	0.04	0.05	0.04	0.06	0.04	0.00	0.00	0.04	0.00	0.00	0.00	0.01	0.00	0.00
Ca	2.68	2.60	2.60	2.57	2.42	2.55	2.63	0.99	0.86	2.34	1.03	0.90	1.08	1.22	0.96	1.06
Na	1.27	1.33	1.43	1.36	1.49	1.40	1.32	2.49	2.58	1.50	2.67	2.72	2.57	2.47	2.66	2.60
K	0.04	0.05	0.05	0.05	0.05	0.05	0.04	0.34	0.41	0.06	0.19	0.21	0.18	0.16	0.21	0.18
Sum Z	15.85	15.87	15.77	15.85	15.88	15.84	15.84	16.12	16.09	15.95	16.06	16.11	16.11	16.03	16.11	16.10
Sum X	4.00	3.98	4.07	3.98	3.97	4.00	3.99	3.82	3.85	3.90	3.88	3.83	3.83	3.86	3.83	3.84
OR	1.11	1.16	1.21	1.34	1.31	1.16	1.07	8.95	10.61	1.42	4.78	5.46	4.67	4.24	5.43	4.72
AB	31.91	33.45	35.06	34.14	37.55	34.98	33.17	65.25	67.02	38.41	68.77	71.11	67.08	64.06	69.56	67.69
AN	66.98	65.39	63.73	64.53	61.14	63.86	65.76	25.80	22.37	60.17	26.45	23.42	28.25	31.70	25.01	27.58

Layer	L 16	L 16	L 17	L 17	L 17	L 17	L 17	L 17	L 17	L 18	L 18	L 18	L 18	L 18	L 18	L 18
Leg	119	119	119	119	119	119	119	119	119	119	119	119	119	119	119	119
Hole	737 B	737 B	737 B	737 B	737 B	737 B	737 B	737 B	737 B	745 B	745 B	745 B	745 B	745 B	745 B	745 B
Core, Section	23R-1	23R-1	23R-2	23R-2	23R-2	23R-2	23R-2	23R-2	23R-2	12H-2	12H-2	12H-2	12H-2	12H-2	12H-2	12H-2
Interval [cm]	28-30	28-30	2-3	2-3	2-3	2-3	2-3	2-3	2-3	103-105	103-105	103-105	103-105	103-105	103-105	103-105
SiO_2	66.76	61.23	51.11	51.06	50.05	48.11	47.29	51.83	49.63	65.53	65.67	64.31	65.50	64.36	65.35	65.37
TiO_2	0.13	0.04	0.10	0.09	0.11	0.07	0.07	0.12	0.07	0.23	0.05	0.10	0.07	0.11	0.03	0.07
Al_2O_3	18.79	23.24	30.06	30.26	30.34	31.54	31.47	28.90	30.90	18.55	18.77	19.59	19.23	19.50	18.96	19.05
Fe_2O_3	0.00	0.00	0.00	0.00	0.00	0.00	0.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FeO	1.50	0.31	0.58	0.54	0.66	0.56	0.00	1.06	0.63	0.78	0.27	0.18	0.26	0.24	0.17	0.19
MgO	0.00	0.00	0.14	0.18	0.15	0.14	0.15	0.36	0.18	0.01	0.00	0.01	0.01	0.00	0.00	0.01
CaO	3.33	5.29	13.54	13.99	14.41	15.22	15.40	13.09	14.81	0.00	0.00	0.85	0.07	0.81	0.25	0.21
Na_2O	6.03	7.42	3.35	3.38	2.99	2.34	2.43	3.49	2.82	6.11	6.68	5.79	6.33	5.23	5.88	5.84
K_2O	2.17	0.82	0.16	0.18	0.17	0.12	0.11	0.26	0.14	7.54	6.72	7.26	7.18	8.08	7.81	7.89
Total	98.71	98.33	99.03	99.68	98.88	98.11	97.57	99.10	99.18	98.74	98.16	98.09	98.64	98.33	98.46	98.63
Si	12.33	11.13	9.42	9.34	9.26	8.99	8.88	9.55	9.16	11.95	11.99	11.80	11.91	11.82	11.94	11.92
Ti	0.02	0.01	0.01	0.01	0.02	0.01	0.01	0.02	0.01	0.03	0.01	0.01	0.01	0.02	0.00	0.01
Al	4.09	4.98	6.53	6.53	6.61	6.95	6.96	6.28	6.72	3.99	4.04	4.24	4.12	4.22	4.08	4.09
Fe^{3+}	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Fe^{2+}	0.23	0.05	0.09	0.08	0.10	0.09	0.00	0.16	0.10	0.12	0.04	0.03	0.04	0.04	0.03	0.03
Mg	0.00	0.00	0.04	0.05	0.04	0.04	0.04	0.10	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Ca	0.66	1.03	2.67	2.74	2.86	3.05	3.10	2.58	2.93	0.00	0.00	0.17	0.01	0.16	0.05	0.04
Na	2.16	2.61	1.20	1.20	1.07	0.85	0.88	1.25	1.01	2.16	2.36	2.06	2.23	1.86	2.08	2.07
K	0.51	0.19	0.04	0.04	0.04	0.03	0.03	0.06	0.03	1.75	1.56	1.70	1.67	1.89	1.82	1.84
Sum Z	16.42	16.11	15.95	15.87	15.87	15.94	15.85	15.83	15.88	15.93	16.02	16.03	16.04	16.03	16.02	16.02
Sum X	3.33	3.84	3.91	3.98	3.97	3.93	4.01	3.89	3.97	3.91	3.93	3.93	3.91	3.91	3.95	3.94
OR	15.36	4.98	0.94	1.05	0.99	0.72	0.68	1.57	0.86	44.81	39.80	43.30	42.60	48.38	46.07	46.56
AB	64.84	68.16	30.61	30.06	27.04	21.63	22.04	32.02	25.38	55.19	60.20	52.43	57.03	47.54	52.67	52.41
AN	19.81	26.86	68.45	68.88	71.97	77.66	77.28	66.41	73.76	0.00	0.00	4.27	0.36	4.08	1.25	1.03

Layer	L 18	L 19	L 19	L 19	L 19	L 19	L 19	T 1	T 2	T 2	T 3	T 3	T 4	T 4	T 4	T 4
Leg	119	119	119	119	119	119	119	120	120	120	120	120	120	120	120	120
Hole	745 B	745 B	745 B	745 B	745 B	745 B	745 B	747 A	747 A	747 A	747 A	747 A	747 A	747 A	747 A	747 A
Core, Section	12H-2	20H-5	20H-5	20H-5	20H-5	20H-5	20H-5	3-1	3-2	3-2	3-4	3-4	3-6	3-6	3-6	3-6
Interval [cm]	103-105	13-14	13-14	13-14	13-14	13-14	13-14	40-42	119-121	119-121	72-74	72-74	62-64	62-64	62-64	62-64
SiO_2	63.34	61.20	65.65	66.36	66.86	60.80	66.42	64.77	64.91	66.19	65.23	64.88	66.21	64.94	51.00	62.18
TiO_2	0.01	0.00	0.05	0.01	0.03	0.02	0.07	0.14	0.49	0.10	0.03	0.07	0.08	0.03	0.12	0.62
Al_2O_3	18.27	23.26	18.84	18.61	18.80	24.11	18.32	20.34	18.56	19.72	19.61	20.23	20.40	20.13	30.30	18.38
Fe_2O_3	0.09	0.07	0.00	0.47	0.44	0.10	0.42	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.64	2.92
FeO	0.00	0.00	0.31	0.00	0.00	0.00	0.00	0.20	4.04	0.16	0.24	0.16	0.15	0.15	0.00	1.45
MgO	0.03	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.37	0.00	0.01	0.00	0.03	0.00	0.07	0.56
CaO	0.00	4.80	0.03	0.00	0.00	5.58	0.00	1.23	0.48	0.32	0.66	1.03	0.74	0.71	13.77	1.23
Na_2O	1.05	8.78	6.27	7.05	7.16	8.35	7.23	5.65	5.41	6.43	4.98	5.69	5.05	5.07	3.55	5.29
K_2O	15.26	0.11	7.47	6.67	6.59	0.23	6.56	7.52	6.12	7.25	8.34	7.63	8.50	8.51	0.37	6.68
Total	98.05	98.21	98.63	99.18	99.87	99.18	99.02	99.85	100.38	100.17	99.10	99.75	101.16	99.54	99.82	99.30
Si	11.90	11.03	11.95	11.97	11.98	10.88	11.99	11.68	11.81	11.85	11.91	11.71	11.83	11.78	9.32	11.45
Ti	0.00	0.00	0.01	0.00	0.00	0.00	0.01	0.02	0.07	0.01	0.00	0.01	0.01	0.00	0.02	0.09
Al	4.04	4.94	4.04	3.96	3.97	5.09	3.90	4.32	3.98	4.16	4.22	4.30	4.30	4.30	6.52	3.99
Fe^{3+}	0.01	0.01	0.00	0.06	0.06	0.01	0.06	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.09	0.40
Fe^{2+}	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.03	0.61	0.02	0.04	0.02	0.02	0.02	0.00	0.22
Mg	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.01	0.00	0.02	0.15
Ca	0.00	0.93	0.01	0.00	0.00	1.07	0.00	0.24	0.09	0.06	0.13	0.20	0.14	0.14	2.69	0.24
Na	0.38	3.07	2.21	2.47	2.48	2.90	2.53	1.98	1.91	2.23	1.76	1.99	1.75	1.78	1.26	1.89
K	3.66	0.03	1.74	1.53	1.51	0.05	1.51	1.73	1.42	1.66	1.94	1.76	1.94	1.97	0.09	1.57
Sum Z	15.94	15.97	15.99	15.93	15.95	15.97	15.89	16.01	15.79	16.01	16.12	16.01	16.13	16.08	15.84	15.43
Sum X	4.04	4.02	3.95	4.00	3.99	4.02	4.04	3.94	3.42	3.95	3.83	3.95	3.83	3.89	4.04	3.70
OR	90.56	0.63	43.90	38.36	37.73	1.28	37.37	43.87	41.50	41.93	50.66	44.51	50.60	50.62	2.13	42.40
AB	9.44	76.33	55.96	61.64	62.27	72.09	62.63	50.10	55.76	56.52	45.98	50.45	45.70	45.84	31.13	51.04
AN	0.00	23.03	0.14	0.00	0.00	26.63	0.00	6.03	2.73	1.55	3.37	5.05	3.70	3.55	66.73	6.56

Layer	T 5	T 6	T 6	T 7	T 8	T 8	T 9	T 9	T 9	T 9	T 9	T 9	T 10	T 10	T 10
Leg	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120
Hole	747 A	747 A	747 A	747 C	747 C	747 C	747 C	747 C	747 C	747 C	747 C	747 C	747 C	747 C	747 C
Core, Section	17-4	17-6	17-6	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3
Interval [cm]	72-74	27-29	27-29	64-66	69-71	69-71	98-100	98-100	98-100	98-100	98-100	98-100	116-118	116-118	116-118
SiO_2	54.39	51.31	52.19	54.44	53.07	51.52	53.71	66.90	68.81	47.95	47.69	47.53	54.43	54.15	49.98
TiO_2	0.18	0.08	0.04	0.11	0.09	0.05	0.07	0.00	0.00	0.05	0.00	0.00	0.10	0.09	0.05
Al_2O_3	27.38	29.31	29.25	27.75	29.23	30.27	28.12	20.19	19.56	31.96	32.55	32.13	28.04	28.38	30.89
Fe_2O_3	1.03	0.60	0.00	1.24	0.00	0.19	0.00	0.00	0.00	0.47	0.27	0.52	0.33	0.00	0.09
FeO	0.00	0.03	0.55	0.00	0.57	0.27	0.58	0.00	0.00	0.00	0.23	0.00	0.48	0.38	0.46
MgO	0.10	0.14	0.12	0.09	0.24	0.16	0.10	0.00	0.00	0.27	0.18	0.22	0.21	0.25	0.22
CaO	10.73	13.49	13.24	10.83	12.96	13.96	11.35	0.00	0.00	16.30	16.28	16.20	11.58	11.81	14.81
Na_2O	5.13	3.73	3.80	5.24	3.91	3.60	4.61	5.32	4.60	2.16	2.06	2.21	4.80	4.77	2.96
K_2O	0.41	0.20	0.25	0.28	0.03	0.08	0.24	6.24	6.42	0.07	0.06	0.05	0.26	0.08	0.07
Total	99.35	98.89	99.44	99.98	100.10	100.10	98.78	98.65	99.39	99.23	99.32	98.86	100.22	99.91	99.53
Si	9.92	9.45	9.56	9.86	9.66	9.38	9.86	12.28	12.63	8.87	8.81	8.82	9.85	9.81	9.18
Ti	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.01	0.00	0.00	0.01	0.01	0.01
Al	5.88	6.37	6.31	5.92	6.27	6.49	6.08	4.37	4.23	6.97	7.09	7.02	5.98	6.06	6.69
Fe^{3+}	0.14	0.08	0.00	0.17	0.00	0.03	0.00	0.00	0.00	0.06	0.04	0.07	0.04	0.00	0.01
Fe^{2+}	0.00	0.00	0.08	0.00	0.09	0.04	0.09	0.00	0.00	0.00	0.04	0.00	0.07	0.06	0.07
Mg	0.03	0.04	0.03	0.02	0.07	0.04	0.03	0.00	0.00	0.07	0.05	0.06	0.06	0.07	0.06
Ca	2.10	2.66	2.60	2.10	2.53	2.72	2.23	0.00	0.00	3.23	3.22	3.22	2.24	2.29	2.91
Na	1.81	1.33	1.35	1.84	1.38	1.27	1.64	1.89	1.64	0.77	0.74	0.79	1.68	1.68	1.05
K	0.10	0.05	0.06	0.06	0.01	0.02	0.06	1.46	1.50	0.02	0.01	0.01	0.06	0.02	0.02
Sum Z	15.80	15.82	15.87	15.78	15.92	15.87	15.94	16.65	16.86	15.83	15.90	15.84	15.83	15.87	15.87
Sum X	4.01	4.04	4.01	4.01	3.91	4.01	3.93	3.35	3.14	4.02	3.98	4.03	3.99	3.99	3.98
OR	2.38	1.16	1.46	1.61	0.18	0.46	1.43	43.56	47.87	0.41	0.36	0.29	1.50	0.46	0.41
AB	45.28	32.96	33.69	45.93	35.25	31.67	41.76	56.44	52.13	19.26	18.57	19.74	42.22	42.03	26.45
AN	52.34	65.88	64.86	52.46	64.57	67.87	56.81	0.00	0.00	80.33	81.08	79.97	56.28	57.51	73.14

Volume 120B
Chapter 10

Table 4

Table 4. Major element concentrations of clinopyroxene from Kerguelen Plateau tephra layers.

Layer	L 1	L 1	L 1	L 1	L 1	L 1	L 1	L 1	L 2	L 2	L 2	L 2	L 2	L 2	L 2	L 2
Leg	119	119	119	119	119	119	119	119	119	119	119	119	119	119	119	119
Hole	736 A	736 A	736 A	736 A	736 A	736 A	736 A	736 A	736 A	736 A	736 A	736 A	736 A	736 A	736 A	736 A
Core, Section	3H-1	3H-1	3H-1	3H-1	3H-1	3H-1	3H-1	3H-1	3H-2	3H-2	3H-2	3H-2	3H-2	3H-2	3H-2	3H-2
Interval [cm]	130-132	130-132	130-132	130-132	130-132	130-132	130-132	130-132	24-26	24-26	24-26	24-26	24-26	24-26	24-26	24-26
SiO_2	48.64	50.27	50.35	48.74	50.67	46.74	49.90	49.87	50.92	50.24	49.54	50.03	49.16	50.15	52.16	49.76
TiO_2	0.39	0.59	0.42	0.45	0.64	0.05	1.62	1.27	0.85	0.88	1.89	0.31	0.46	0.43	0.53	0.48
Al_2O_3	0.43	0.70	0.67	0.62	1.58	0.58	2.08	2.99	2.14	1.25	3.36	0.40	0.70	0.58	0.86	0.68
Fe_2O_3	1.90	1.56	1.05	1.86	1.33	4.22	1.87	2.00	0.97	0.93	1.79	3.30	2.30	1.44	2.01	1.48
FeO	21.92	14.72	15.88	19.31	9.55	24.34	7.53	7.17	7.86	19.41	5.10	15.92	18.70	16.52	6.70	16.52
MnO	1.16	1.18	0.84	0.99	0.32	1.51	0.18	0.28	0.21	0.42	0.12	1.44	0.97	0.93	1.21	0.88
MgO	3.56	8.96	8.40	5.49	13.44	0.06	13.66	14.03	15.59	15.42	14.60	7.39	5.98	7.72	14.41	7.67
CaO	20.50	20.30	20.96	20.60	20.24	20.11	21.22	20.53	19.21	10.08	22.01	19.45	20.77	20.95	19.97	20.94
Na_2O	0.60	0.58	0.43	0.46	0.29	0.90	0.40	0.42	0.24	0.13	0.32	0.99	0.48	0.49	0.78	0.44
K_2O	0.01	0.02	0.02	0.01	0.02	0.02	0.01	0.01	0.02	0.02	0.01	0.02	0.00	0.01	0.01	0.00
Cr_2O_3	0.00	0.03	0.02	0.00	0.02	0.05	0.05	0.35	0.08	0.00	0.16	0.03	0.03	0.00	0.00	0.02
Total	99.11	98.91	99.04	98.56	98.09	98.58	98.51	98.93	98.09	98.76	98.89	99.26	99.56	99.23	98.64	98.85
Si	1.97	1.97	1.97	1.96	1.94	1.95	1.89	1.88	1.92	1.94	1.86	1.97	1.95	1.97	1.97	1.96
Ti	0.01	0.02	0.01	0.01	0.02	0.00	0.05	0.04	0.02	0.03	0.05	0.01	0.01	0.01	0.02	0.01
Al	0.02	0.03	0.03	0.03	0.07	0.03	0.09	0.13	0.10	0.06	0.15	0.02	0.03	0.03	0.04	0.03
Fe^{3+}	0.06	0.05	0.03	0.06	0.04	0.13	0.05	0.06	0.03	0.03	0.05	0.10	0.07	0.04	0.06	0.04
Fe^{2+}	0.74	0.48	0.52	0.65	0.31	0.85	0.24	0.23	0.25	0.63	0.16	0.52	0.62	0.54	0.21	0.55
Mn	0.04	0.04	0.03	0.03	0.01	0.05	0.01	0.01	0.01	0.01	0.00	0.05	0.03	0.03	0.04	0.03
Mg	0.21	0.52	0.49	0.33	0.77	0.00	0.77	0.79	0.88	0.89	0.82	0.43	0.35	0.45	0.81	0.45
Ca	0.89	0.85	0.88	0.89	0.83	0.90	0.86	0.83	0.78	0.42	0.88	0.82	0.88	0.88	0.81	0.89
Na	0.05	0.04	0.03	0.04	0.02	0.07	0.03	0.03	0.02	0.01	0.02	0.08	0.04	0.04	0.06	0.03
K	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cr	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EN	10.75	26.10	24.52	16.48	38.31	0.18	38.67	39.41	43.87	44.32	40.79	21.68	17.72	22.62	40.47	22.55
FS	39.16	26.02	27.42	34.19	15.80	45.22	12.24	11.75	12.75	31.99	8.18	28.62	32.70	28.70	12.49	28.74
WO	43.77	41.67	43.26	43.20	39.29	42.78	40.20	37.26	36.19	18.99	39.68	40.02	42.57	43.32	39.39	43.23

Layer	L 2	L 3	L 3	L 3	L 3	L 3	L 3	L 3	L 3	L 4	L 4	L 4	L 4	L 10	L 10	L 10
Leg	119	119	119	119	119	119	119	119	119	119	119	119	119	119	119	119
Hole	736 A	736 A	736 A	736 A	736 A	736 A	736 A	736 A	736 A	736 A	736 A	736 A	736 A	737 A	737 A	737 A
Core, Section	3H-2	6H-1	6H-1	6H-1	6H-1	6H-1	6H-1	6H-1	6H-1	7H-1	7H-1	7H-1	7H-1	9H-4	9H-4	9H-4
Interval [cm]	24-26	44-46	44-46	44-46	44-46	44-46	44-46	44-46	44-46	10-12	10-12	10-12	10-12	76-78	76-78	76-78
SiO_2	49.31	49.60	49.50	50.76	51.20	50.70	50.83	50.67	49.22	48.77	50.84	48.28	49.29	49.20	49.19	49.16
TiO_2	0.48	1.30	0.45	0.29	0.64	0.28	0.27	0.29	1.35	0.70	0.43	0.46	0.42	0.52	0.42	0.45
Al_2O_3	0.75	2.76	0.66	2.21	3.05	0.68	0.76	3.25	1.94	0.90	0.64	0.42	0.57	0.50	0.38	0.39
Fe_2O_3	2.14	2.60	2.16	1.91	1.07	1.03	0.98	1.66	1.48	2.33	2.15	3.88	2.06	2.25	2.23	2.75
FeO	17.46	6.62	15.61	7.76	4.15	24.49	23.44	4.33	13.12	18.83	11.85	21.50	18.75	16.79	19.62	19.69
MnO	0.96	0.22	0.96	0.32	0.08	0.87	0.86	0.04	0.33	1.00	1.03	1.42	0.96	1.18	1.34	1.48
MgO	6.69	14.07	8.25	15.26	16.33	16.71	17.22	14.93	12.39	5.78	10.78	3.42	6.29	7.48	5.79	5.74
CaO	20.77	21.11	20.52	19.50	21.41	4.26	4.56	22.82	18.30	20.22	20.57	18.52	20.32	19.87	19.81	19.59
Na_2O	0.51	0.33	0.44	0.15	0.23	0.06	0.04	0.13	0.23	0.62	0.59	1.15	0.49	0.54	0.53	0.57
K_2O	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.01	0.03	0.00	0.02	0.01
Cr_2O_3	0.00	0.00	0.04	0.08	0.98	0.04	0.00	0.21	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.01
Total	99.08	98.59	98.58	98.24	99.13	99.11	98.96	98.35	98.37	99.17	98.87	99.06	99.19	98.33	99.34	99.84
Si	1.96	1.88	1.96	1.92	1.89	1.96	1.96	1.90	1.90	1.95	1.96	1.96	1.96	1.96	1.97	1.96
Ti	0.01	0.04	0.01	0.01	0.02	0.01	0.01	0.01	0.04	0.02	0.01	0.01	0.01	0.02	0.01	0.01
Al	0.03	0.12	0.03	0.10	0.13	0.03	0.03	0.14	0.09	0.04	0.03	0.02	0.03	0.02	0.02	0.02
Fe^{3+}	0.06	0.07	0.06	0.05	0.03	0.03	0.03	0.05	0.04	0.07	0.06	0.12	0.06	0.07	0.07	0.08
Fe^{2+}	0.58	0.21	0.52	0.25	0.13	0.79	0.76	0.14	0.42	0.63	0.38	0.73	0.62	0.56	0.66	0.66
Mn	0.03	0.01	0.03	0.01	0.00	0.03	0.03	0.00	0.01	0.03	0.03	0.05	0.03	0.04	0.05	0.05
Mg	0.40	0.79	0.49	0.86	0.90	0.96	0.99	0.83	0.71	0.34	0.62	0.21	0.37	0.44	0.34	0.34
Ca	0.88	0.86	0.87	0.79	0.85	0.18	0.19	0.92	0.76	0.86	0.85	0.81	0.87	0.85	0.85	0.84
Na	0.04	0.02	0.03	0.01	0.02	0.00	0.00	0.01	0.02	0.05	0.04	0.09	0.04	0.04	0.04	0.04
K	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cr	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
EN	19.79	39.66	24.27	43.00	45.02	48.22	49.54	41.69	35.72	17.20	31.02	10.37	18.67	22.22	17.25	17.03
FS	30.58	10.82	27.39	12.79	6.55	41.07	39.24	6.85	21.76	33.12	20.82	38.99	32.84	29.96	35.06	35.31
WO	42.67	38.46	41.85	35.90	37.25	7.40	7.93	41.13	35.07	41.62	41.37	39.15	42.12	41.19	41.32	40.40

Layer	L 10	L 11	L 11	L 11	L 11	L 11	L 13	L 13	L 13	L 13	L 13	L 13	L 13	L 14	L 14	L 15
Leg	119	119	119	119	119	119	119	119	119	119	119	119	119	119	119	119
Hole	737 A	737 B	737 B	737 B	737 B	737 B	737 B	737 B	737 B	737 B	737 B	737 B	737 B	737 B	737 B	737 B
Core, Section	9H-4	5R-1	5R-1	5R-1	5R-1	5R-1	15R-4	15R-4	15R-4	15R-4	15R-4	15R-4	15R-4	21R-1	21R-1	22R-6
Interval [cm]	76-78	122-124	122-124	122-124	122-124	122-124	66-69	66-69	66-69	66-69	66-69	66-69	66-69	120-122	120-122	115-117
SiO_2	49.33	50.09	50.20	49.08	50.22	49.00	49.09	50.48	50.28	49.28	50.13	51.56	50.33	50.84	50.49	49.96
TiO_2	0.42	0.41	1.10	1.75	1.32	1.63	1.51	1.40	0.90	1.58	1.22	0.85	1.29	1.02	1.09	1.22
Al_2O_3	0.35	0.58	1.76	3.39	2.89	3.80	3.12	2.38	1.56	2.70	2.13	2.47	2.16	2.00	1.89	2.85
Fe_2O_3	2.58	1.65	0.67	1.36	0.50	1.06	2.50	1.14	1.42	1.71	2.05	1.00	1.79	1.40	1.41	1.56
FeO	19.43	16.11	13.69	9.79	10.41	9.94	8.44	9.72	17.75	12.11	9.59	6.06	10.56	9.39	11.17	7.99
MnO	1.32	0.99	0.31	0.19	0.22	0.24	0.15	0.26	0.47	0.30	0.24	0.12	0.18	0.24	0.25	0.21
MgO	5.85	8.38	13.23	15.16	15.66	14.78	14.26	14.62	13.91	14.31	14.74	16.28	15.31	14.95	15.45	15.17
CaO	20.02	20.19	17.36	17.15	16.77	16.84	19.40	19.05	13.40	16.62	18.54	20.28	17.35	18.63	16.58	18.85
Na_2O	0.54	0.51	0.23	0.27	0.25	0.41	0.26	0.25	0.16	0.23	0.26	0.26	0.23	0.34	0.24	0.29
K_2O	0.00	0.00	0.04	0.01	0.02	0.02	0.00	0.01	0.00	0.02	0.00	0.01	0.00	0.00	0.01	0.03
Cr_2O_3	0.00	0.00	0.04	0.07	0.19	0.15	0.03	0.02	0.00	0.00	0.02	0.60	0.01	0.04	0.00	0.22
Total	99.85	98.92	98.64	98.21	98.44	97.86	98.76	99.33	99.85	98.87	98.92	99.49	99.20	98.86	98.59	98.36
Si	1.96	1.97	1.93	1.86	1.90	1.87	1.86	1.90	1.92	1.88	1.90	1.91	1.90	1.92	1.92	1.89
Ti	0.01	0.01	0.03	0.05	0.04	0.05	0.04	0.04	0.03	0.05	0.03	0.02	0.04	0.03	0.03	0.03
Al	0.02	0.03	0.08	0.15	0.13	0.17	0.14	0.11	0.07	0.12	0.10	0.11	0.10	0.09	0.08	0.13
Fe^{3+}	0.08	0.05	0.02	0.04	0.01	0.03	0.07	0.03	0.04	0.05	0.06	0.03	0.05	0.04	0.04	0.04
Fe^{2+}	0.65	0.53	0.44	0.31	0.33	0.32	0.27	0.31	0.57	0.39	0.30	0.19	0.33	0.30	0.35	0.25
Mn	0.04	0.03	0.01	0.01	0.01	0.01	0.00	0.01	0.02	0.01	0.01	0.00	0.01	0.01	0.01	0.01
Mg	0.35	0.49	0.76	0.86	0.88	0.84	0.81	0.82	0.79	0.81	0.83	0.90	0.86	0.84	0.87	0.85
Ca	0.85	0.85	0.71	0.70	0.68	0.69	0.79	0.77	0.55	0.68	0.75	0.80	0.70	0.75	0.67	0.76
Na	0.04	0.04	0.02	0.02	0.02	0.03	0.02	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02
K	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cr	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.01
EN	17.33	24.55	37.86	42.91	44.11	41.94	40.29	41.00	39.67	40.66	41.58	44.93	43.03	42.03	43.69	42.73
FS	34.53	28.13	22.48	15.86	16.80	16.22	13.63	15.71	29.17	19.79	15.56	9.57	16.94	15.19	18.11	12.96
WO	41.36	41.61	33.69	30.58	30.71	30.00	34.57	35.42	24.99	30.13	34.21	36.90	31.82	35.03	31.04	34.27

Layer	L 15	L 15	L 15	L 15	L 15	L 16	L 16	L 16	L 16	L 16	L 16	L 16	L 16	L 16	L 16	L 17
Leg	119	119	119	119	119	119	119	119	119	119	119	119	119	119	119	119
Hole	737 B	737 B	737 B	737 B	737 B	737 B	737 B	737 B	737 B	737 B	737 B	737 B	737 B	737 B	737 B	737 B
Core, Section	22R-6	22R-6	22R-6	22R-6	22R-6	23R-1	23R-1	23R-1	23R-1	23R-1	23R-1	23R-1	23R-1	23R-1	23R-1	23R-2
Interval [cm]	115-117	115-117	115-117	115-117	115-117	28-30	28-30	28-30	28-30	28-30	28-30	28-30	28-30	28-30	28-30	2-3
SiO_2	50.12	50.48	51.00	49.97	50.94	46.90	47.30	46.48	47.05	46.56	46.49	47.07	47.04	47.15	46.35	50.77
TiO_2	1.15	0.83	0.97	1.35	0.89	0.46	0.43	0.74	0.44	0.60	0.51	0.41	0.45	0.39	0.48	0.97
Al_2O_3	2.83	1.44	2.02	2.64	2.08	0.73	0.62	0.77	0.74	0.78	0.63	0.67	0.67	0.91	0.69	2.67
Fe_2O_3	1.86	1.90	1.45	1.85	1.00	2.65	1.34	1.97	3.41	1.70	2.46	2.39	2.15	2.61	1.68	1.56
FeO	6.82	10.36	8.25	8.39	7.22	26.56	27.14	28.43	25.36	27.76	26.68	26.32	26.59	22.69	26.77	5.69
MnO	0.20	0.31	0.26	0.26	0.19	1.07	1.02	0.88	1.06	1.12	1.01	0.98	0.92	0.94	1.08	0.14
MgO	15.28	14.48	15.23	14.51	15.80	1.91	1.76	1.00	2.43	1.36	1.49	2.08	2.03	4.19	1.60	15.70
CaO	19.91	18.23	19.45	19.63	19.63	19.02	19.23	18.97	19.18	18.46	19.05	19.18	19.12	19.00	18.71	20.75
Na_2O	0.26	0.26	0.27	0.28	0.21	0.23	0.21	0.17	0.28	0.27	0.27	0.23	0.22	0.26	0.25	0.25
K_2O	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.01	0.01	0.00	0.02	0.00	0.00
Cr_2O_3	0.13	0.02	0.02	0.01	0.29	0.04	0.00	0.05	0.00	0.00	0.00	0.00	0.06	0.05	0.00	0.44
Total	98.56	98.34	98.94	98.88	98.26	99.56	99.05	99.48	99.94	98.61	98.59	99.33	99.24	98.20	97.62	98.93
Si	1.89	1.93	1.92	1.89	1.92	1.94	1.96	1.93	1.93	1.95	1.94	1.94	1.94	1.94	1.95	1.89
Ti	0.03	0.02	0.03	0.04	0.03	0.01	0.01	0.02	0.01	0.02	0.02	0.01	0.01	0.01	0.02	0.03
Al	0.13	0.06	0.09	0.12	0.09	0.04	0.03	0.04	0.04	0.04	0.03	0.03	0.03	0.04	0.03	0.12
Fe^{3+}	0.05	0.05	0.04	0.05	0.03	0.08	0.04	0.06	0.11	0.05	0.08	0.07	0.07	0.08	0.05	0.04
Fe^{2+}	0.21	0.33	0.26	0.26	0.23	0.92	0.94	0.99	0.87	0.97	0.93	0.91	0.92	0.78	0.94	0.18
Mn	0.01	0.01	0.01	0.01	0.01	0.04	0.04	0.03	0.04	0.04	0.04	0.03	0.03	0.03	0.04	0.00
Mg	0.86	0.82	0.85	0.82	0.89	0.12	0.11	0.06	0.15	0.08	0.09	0.13	0.13	0.26	0.10	0.87
Ca	0.80	0.75	0.78	0.79	0.79	0.84	0.85	0.85	0.84	0.83	0.85	0.85	0.85	0.84	0.84	0.83
Na	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
K	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Cr	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
EN	42.85	41.19	42.67	40.84	44.34	5.88	5.43	3.10	7.41	4.24	4.64	6.40	6.26	12.83	5.03	43.68
FS	11.05	17.03	13.38	13.66	11.68	47.71	48.80	51.02	45.27	50.49	48.36	47.14	47.56	40.58	49.06	9.09
WO	36.05	34.77	36.38	35.96	36.73	39.54	41.30	40.12	39.15	39.58	40.47	40.20	40.25	39.18	40.52	37.60

Layer	L 18	L 18	L 18	L 18	L 18	L 18	T 1	T 5	T 6	T 7
Leg	119	119	119	119	119	119	120	120	120	120
Hole	745 B	745 B	745 B	745 B	745 B	745 B	747 A	747 A	747 A	747 C
Core, Section	12H-2	12H-2	12H-2	12H-2	12H-2	12H-2	3-1	17-4	17-6	3-3
Interval [cm]	103-105	103-105	103-105	103-105	103-105	103-105	40-42	72-74	27-29	64-66
SiO_2	49.50	49.08	49.32	48.19	47.71	48.97	49.83	51.90	51.46	49.43
TiO_2	0.61	0.51	0.53	0.45	0.45	0.55	0.48	0.71	0.78	0.93
Al_2O_3	0.68	0.50	0.55	0.37	0.33	0.52	0.58	1.44	2.97	2.49
Fe_2O_3	2.30	2.02	2.56	3.08	3.80	2.88	1.51	0.78	0.42	0.17
FeO	14.57	18.53	17.63	20.96	22.07	17.48	17.60	10.49	4.62	16.18
MnO	1.05	1.23	1.19	1.46	1.47	1.18	1.11	0.24	0.11	0.33
MgO	8.94	6.24	6.81	4.20	2.97	6.83	7.19	18.40	16.32	11.74
CaO	20.49	20.41	20.54	20.03	19.76	20.34	20.38	14.22	21.11	15.11
Na_2O	0.40	0.45	0.46	0.53	0.70	0.46	0.49	0.20	0.29	0.56
K_2O	0.02	0.00	0.01	0.00	0.02	0.01	0.03	0.01	0.01	0.18
Cr_2O_3	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.32	0.93	0.00
Total	98.55	98.98	99.60	99.26	99.28	99.24	99.20	98.71	99.01	97.12
Si	1.95	1.96	1.95	1.95	1.95	1.95	1.97	1.94	1.90	1.94
Ti	0.02	0.02	0.02	0.01	0.01	0.02	0.01	0.02	0.02	0.03
Al	0.03	0.02	0.03	0.02	0.02	0.02	0.03	0.06	0.13	0.12
Fe^{3+}	0.07	0.06	0.08	0.09	0.12	0.09	0.04	0.02	0.01	0.00
Fe^{2+}	0.48	0.62	0.58	0.71	0.75	0.58	0.58	0.33	0.14	0.53
Mn	0.03	0.04	0.04	0.05	0.05	0.04	0.04	0.01	0.00	0.01
Mg	0.52	0.37	0.40	0.25	0.18	0.40	0.42	1.03	0.90	0.69
Ca	0.86	0.87	0.87	0.87	0.86	0.87	0.86	0.57	0.84	0.63
Na	0.03	0.04	0.04	0.04	0.06	0.04	0.04	0.01	0.02	0.04
K	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
Cr	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.03	0.00
EN	26.23	18.56	20.09	12.67	9.04	20.22	21.18	51.26	45.02	34.31
FS	25.72	33.03	31.16	37.99	40.22	31.03	30.95	16.77	7.32	27.08
WO	41.50	42.44	41.88	41.70	41.29	41.41	42.33	26.48	37.12	30.03

Volume 120B
Chapter 10

Table 5

Table 5. Major element concentrations of zeolites from Kerguelen Plateau tephra layers.

Layer	L 13	L 13	L 14	L 14	L 14	L 14	L 14	L 14	L 14	L 14	L 14	L 14	L 14	L 14	L 14	L 14
Leg	119	119	119	119	119	119	119	119	119	119	119	119	119	119	119	119
Hole	737 B	737 B	737 B	737 B	737 B	737 B	737 B	737 B	737 B	737 B	737 B	737 B	737 B	737 B	737 B	737 B
Core, Section	15R-4	15R-4	21R-1	21R-1	21R-1	21R-1	21R-1	21R-1	21R-1	21R-1	21R-1	21R-1	21R-1	21R-1	21R-1	21R-1
Interval [cm]	66-69	66-69	120-122	120-122	120-122	120-122	120-122	120-122	120-122	120-122	120-122	120-122	120-122	120-122	120-122	120-122
SiO_2	60.62	70.58	62.87	60.46	61.71	64.01	66.13	65.23	61.49	61.36	64.92	61.79	53.83	63.16	53.28	55.14
TiO_2	0.01	0.00	0.33	0.28	0.63	0.63	0.00	0.70	0.34	0.21	0.40	0.00	0.35	0.23	0.25	0.18
Al_2O_3	20.15	14.00	14.55	13.90	15.01	15.31	16.46	15.51	20.39	20.46	15.09	15.66	16.24	20.01	14.85	16.74
FeO	0.12	0.07	0.10	0.13	0.18	0.24	0.09	0.19	0.10	0.11	0.10	0.02	0.03	0.07	0.11	0.18
MnO	0.00	0.02	0.00	0.00	0.00	0.03	0.00	0.00	0.03	0.02	0.01	0.00	0.01	0.00	0.00	0.00
MgO	0.00	0.13	0.01	0.01	0.00	0.02	0.00	0.01	0.03	0.01	0.00	0.01	0.02	0.00	0.13	0.14
CaO	0.93	2.77	4.00	3.60	4.23	4.83	4.44	4.26	0.21	0.15	4.08	4.03	4.57	0.15	2.52	2.73
Na_2O	10.57	3.28	3.17	4.90	3.20	2.22	1.77	3.01	11.53	11.65	3.95	2.89	10.09	10.85	8.52	7.89
K_2O	0.02	1.53	0.17	0.22	0.21	0.10	0.41	0.59	0.00	0.01	0.15	0.16	0.35	0.00	3.37	3.31
P_2O_5	0.00	0.03	0.04	0.06	0.05	0.02	0.02	0.07	0.00	0.03	0.08	0.08	0.05	0.00	0.09	0.02
Cr_2O_3	0.00	0.00	0.01	0.02	0.03	0.00	0.00	0.03	0.00	0.00	0.00	0.03	0.02	0.00	0.08	0.00
Total	92.43	92.42	85.25	83.58	85.24	87.42	89.33	89.61	94.14	93.99	88.77	84.66	85.56	94.48	83.19	86.34
Si	2.16	2.44	2.36	2.34	2.33	2.35	2.36	2.34	2.16	2.16	2.35	2.34	2.12	2.19	2.18	2.16
Al	0.85	0.57	0.64	0.63	0.67	0.66	0.69	0.66	0.84	0.85	0.64	0.70	0.76	0.82	0.72	0.77
Ca	0.04	0.10	0.16	0.15	0.17	0.19	0.17	0.16	0.01	0.01	0.16	0.16	0.19	0.01	0.11	0.11
Na	0.73	0.22	0.23	0.37	0.23	0.16	0.12	0.21	0.78	0.79	0.28	0.21	0.77	0.73	0.67	0.60
K	0.00	0.07	0.01	0.01	0.01	0.00	0.02	0.03	0.00	0.00	0.01	0.01	0.02	0.00	0.18	0.17

Layer	L 14	L 15	L 15	L 15	L 15	L 15	L 15	L 15	L 15	L 15	L 15	L 15	L 15	L 15	L 15	L 16
Leg	119	119	119	119	119	119	119	119	119	119	119	119	119	119	119	119
Hole	737 B	737 B	737 B	737 B	737 B	737 B	737 B	737 B	737 B	737 B	737 B	737 B	737 B	737 B	737 B	737 B
Core, Section	21R-1	22R-6	22R-6	22R-6	22R-6	22R-6	22R-6	22R-6	22R-6	22R-6	22R-6	22R-6	22R-6	22R-6	22R-6	23R-1
Interval [cm]	120-122	115-117	115-117	115-117	115-117	115-117	115-117	115-117	115-117	115-117	115-117	115-117	115-117	115-117	115-117	28-30
SiO_2	61.16	61.92	62.90	63.07	53.73	63.50	64.42	65.80	64.38	61.75	65.12	62.89	63.02	58.38	65.92	55.88
TiO_2	0.36	0.03	0.03	0.02	0.06	0.07	0.00	0.00	0.01	0.04	0.01	0.04	0.02	0.00	0.00	0.08
Al_2O_3	20.31	14.49	15.35	15.55	15.86	15.27	15.50	16.47	16.05	15.00	16.21	15.95	15.50	14.93	16.11	15.79
FeO	0.07	0.06	0.04	0.00	0.12	0.14	0.06	0.01	0.03	0.00	0.02	0.00	0.04	0.04	0.04	0.10
MnO	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.03	0.04	0.00	0.00	0.00	0.07	0.03
MgO	0.00	0.00	0.00	0.00	0.09	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.01	0.02	0.01	0.02
CaO	0.22	3.66	4.17	4.00	2.94	3.82	4.05	3.98	4.32	3.81	4.10	4.24	4.22	3.32	4.35	2.60
Na_2O	11.50	3.47	3.08	2.95	6.09	2.96	3.94	3.19	3.24	2.82	3.52	2.64	2.86	5.57	3.26	6.62
K_2O	0.00	0.50	0.37	0.36	3.32	0.34	0.28	0.39	0.36	0.45	0.40	0.49	0.29	0.98	0.28	3.82
P_2O_5	0.00	0.02	0.06	0.08	0.04	0.03	0.04	0.08	0.06	0.05	0.02	0.07	0.07	0.05	0.05	0.04
Cr_2O_3	0.01	0.05	0.01	0.02	0.00	0.05	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.01
Total	93.64	84.21	86.01	86.06	82.25	86.18	88.31	89.92	88.53	83.95	89.45	86.32	86.04	83.28	90.08	84.99
Si	2.16	2.36	2.35	2.35	2.19	2.36	2.35	2.34	2.34	2.36	2.34	2.33	2.35	2.29	2.35	2.21
Al	0.84	0.65	0.67	0.68	0.76	0.67	0.67	0.69	0.69	0.67	0.69	0.70	0.68	0.69	0.68	0.74
Ca	0.01	0.15	0.17	0.16	0.13	0.15	0.16	0.15	0.17	0.16	0.16	0.17	0.17	0.14	0.17	0.11
Na	0.79	0.26	0.22	0.21	0.48	0.21	0.28	0.22	0.23	0.21	0.25	0.19	0.21	0.42	0.22	0.51
K	0.00	0.02	0.02	0.02	0.17	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.01	0.05	0.01	0.19

Layer	L 16	L 16	L 16	L 16	L 16	L 16	L 16	L 16	L 16	L 16	L 16	L 16	L 16	L 16	L 16	L 16
Leg	119	119	119	119	119	119	119	119	119	119	119	119	119	119	119	119
Hole	737 B	737 B	737 B	737 B	737 B	737 B	737 B	737 B	737 B	737 B	737 B	737 B	737 B	737 B	737 B	737 B
Core, Section	23R-1	23R-1	23R-1	23R-1	23R-1	23R-1	23R-1	23R-1	23R-1	23R-1	23R-1	23R-1	23R-1	23R-1	23R-1	23R-1
Interval [cm]	28-30	28-30	28-30	28-30	28-30	28-30	28-30	28-30	28-30	28-30	28-30	28-30	28-30	28-30	28-30	28-30
SiO_2	56.18	58.57	55.54	53.16	52.94	57.80	55.19	55.80	52.31	57.34	55.07	57.29	58.27	55.08	59.29	58.35
TiO_2	0.10	0.05	0.03	0.07	0.05	0.11	0.10	0.03	0.07	0.04	0.01	0.06	0.09	0.05	0.05	0.06
Al_2O_3	15.77	16.04	15.60	15.35	14.27	16.05	15.62	15.86	14.46	15.72	15.08	16.26	16.33	15.47	16.66	16.09
FeO	0.03	0.06	0.07	0.08	0.13	0.03	0.05	0.05	0.06	0.07	0.03	0.16	0.02	0.03	0.01	0.32
MnO	0.00	0.00	0.02	0.00	0.02	0.00	0.00	0.06	0.00	0.02	0.07	0.00	0.10	0.07	0.02	0.00
MgO	0.03	0.00	0.07	0.03	0.00	0.03	0.05	0.09	0.01	0.01	0.07	0.11	0.03	0.07	0.07	0.01
CaO	1.72	4.64	1.85	2.04	2.36	1.99	2.68	2.72	2.25	2.40	2.50	3.09	2.71	2.58	2.51	4.99
Na_2O	6.74	5.91	7.02	7.51	8.17	7.17	6.14	5.53	9.76	7.12	6.14	2.47	5.87	6.49	5.64	5.04
K_2O	3.58	0.90	3.67	3.83	3.97	4.14	3.57	3.55	4.24	3.93	3.53	3.87	4.22	3.48	4.12	0.41
P_2O_5	0.03	0.13	0.05	0.05	0.05	0.08	0.00	0.08	0.03	0.08	0.04	0.04	0.03	0.04	0.10	0.10
Cr_2O_3	0.00	0.04	0.00	0.00	0.00	0.03	0.03	0.05	0.00	0.00	0.00	0.04	0.02	0.00	0.04	0.02
Total	84.19	86.34	83.92	82.12	81.96	87.43	83.43	83.82	83.19	86.73	82.53	83.41	87.68	83.37	88.51	85.40
Si	2.23	2.24	2.22	2.19	2.20	2.22	2.22	2.22	2.16	2.22	2.23	2.26	2.23	2.22	2.23	2.24
Al	0.74	0.72	0.73	0.74	0.70	0.73	0.74	0.74	0.71	0.72	0.72	0.76	0.74	0.73	0.74	0.73
Ca	0.07	0.19	0.08	0.09	0.10	0.08	0.12	0.12	0.10	0.10	0.11	0.13	0.11	0.11	0.10	0.21
Na	0.52	0.44	0.54	0.60	0.66	0.53	0.48	0.43	0.78	0.54	0.48	0.19	0.43	0.51	0.41	0.37
K	0.18	0.04	0.19	0.20	0.21	0.20	0.18	0.18	0.22	0.19	0.18	0.19	0.21	0.18	0.20	0.02

Layer	L 16	L 16	L 16	L 16	L 16	L 16	L 16	L 17	L 17	L 17	L 17	L 17	L 17	L 17	L 17	L 17
Leg	119	119	119	119	119	119	119	119	119	119	119	119	119	119	119	119
Hole	737 B	737 B	737 B	737 B	737 B	737 B	737 B	737 B	737 B	737 B	737 B	737 B	737 B	737 B	737 B	737 B
Core, Section	23R-1	23R-1	23R-1	23R-1	23R-1	23R-1	23R-1	23R-2	23R-2	23R-2	23R-2	23R-2	23R-2	23R-2	23R-2	23R-2
Interval [cm]	28-30	28-30	28-30	28-30	28-30	28-30	28-30	2-3	2-3	2-3	2-3	2-3	2-3	2-3	2-3	2-3
SiO_2	59.03	57.22	57.63	57.26	60.13	59.02	57.79	60.53	61.92	59.43	59.34	58.99	59.50	62.92	59.17	61.96
TiO_2	0.00	0.09	0.05	0.05	0.05	0.13	0.03	0.81	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.04
Al_2O_3	16.57	16.05	16.26	15.62	16.56	16.09	15.80	20.06	15.47	19.90	19.26	19.96	19.86	15.47	20.14	16.84
FeO	0.01	0.03	0.10	0.15	0.02	0.02	0.00	0.29	0.07	0.05	0.04	0.02	0.00	0.07	0.07	0.18
MnO	0.00	0.00	0.05	0.00	0.02	0.00	0.00	0.01	0.04	0.00	0.00	0.00	0.00	0.03	0.02	0.00
MgO	0.09	0.00	0.00	0.07	0.05	0.00	0.08	0.03	0.00	0.01	0.00	0.00	0.00	0.02	0.04	0.00
CaO	2.19	4.67	5.18	5.06	3.11	4.84	2.48	0.67	4.33	0.07	0.04	0.04	0.01	4.30	0.05	2.54
Na_2O	6.11	6.22	6.65	4.73	2.76	4.66	5.65	7.34	3.07	11.36	11.46	11.77	11.44	3.09	11.63	5.56
K_2O	4.23	0.28	0.28	0.57	4.14	0.28	3.80	0.07	0.14	0.01	0.00	0.02	0.01	0.17	0.02	0.12
P_2O_5	0.04	0.10	0.09	0.11	0.04	0.07	0.04	0.03	0.07	0.03	0.00	0.00	0.00	0.10	0.03	0.04
Cr_2O_3	0.07	0.07	0.00	0.00	0.02	0.00	0.05	0.02	0.00	0.00	0.00	0.00	0.06	0.05	0.00	0.00
Total	88.33	84.73	86.29	83.60	86.91	85.12	85.71	89.86	85.11	90.86	90.15	90.83	90.87	86.23	91.15	87.28
Si	2.23	2.22	2.21	2.25	2.28	2.26	2.25	2.19	2.33	2.16	2.17	2.15	2.16	2.34	2.15	2.29
Al	0.74	0.73	0.73	0.72	0.74	0.73	0.72	0.85	0.69	0.85	0.83	0.86	0.85	0.68	0.86	0.73
Ca	0.09	0.19	0.21	0.21	0.13	0.20	0.10	0.03	0.17	0.00	0.00	0.00	0.00	0.17	0.00	0.10
Na	0.45	0.47	0.49	0.36	0.20	0.35	0.43	0.51	0.22	0.80	0.81	0.83	0.80	0.22	0.82	0.40
K	0.20	0.01	0.01	0.03	0.20	0.01	0.19	0.00	0.01	0.00	0.00	0.00	0.00	0.01	0.00	0.01

Layer	L 17	L 17	L 17	L 17	T 5	T 6	T 7	T 8	T 8	T 8	T 8	T 9	T 11	T 11	T 11	T 11
Leg	119	119	119	119	120	120	120	120	120	120	120	120	120	120	120	120
Hole	737 B	737 B	737 B	737 B	747 A	747 A	747 C	747 C	747 C	747 C	747 C	747 C	747 C	747 C	747 C	747 C
Core, Section	23R-2	23R-2	23R-2	23R-2	17-4	17-6	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3
Interval [cm]	2-3	2-3	2-3	2-3	72-74	27-29	64-66	69-71	69-71	69-71	69-71	98-100	144-146	144-146	144-146	144-146
SiO_2	59.84	62.09	63.97	59.22	59.65	65.47	64.67	70.87	58.50	64.27	66.69	65.04	62.38	54.41	54.32	55.65
TiO_2	0.04	0.00	0.02	0.02	0.07	0.02	0.05	0.00	0.02	0.00	0.00	0.00	0.00	0.14	0.15	0.08
Al_2O_3	16.29	16.15	15.30	19.81	23.61	19.95	19.61	13.68	17.42	16.34	19.20	20.03	15.73	24.02	25.44	21.92
FeO	0.03	0.04	0.02	0.00	0.10	0.07	0.06	0.11	0.05	0.00	0.06	0.00	0.72	1.32	0.72	2.67
MnO	0.00	0.13	0.00	0.01	0.00	0.07	0.03	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.05	0.04
MgO	0.00	0.02	0.00	0.00	0.00	0.04	0.00	0.30	1.26	0.93	0.00	0.00	1.16	1.16	0.29	9.28
CaO	4.25	4.39	3.81	0.03	0.89	0.34	0.00	0.37	0.79	0.43	0.00	0.00	0.85	8.15	9.45	0.25
Na_2O	3.32	3.38	4.50	11.62	10.31	8.90	5.41	5.00	2.00	3.97	4.59	5.19	4.80	4.99	4.24	3.34
K_2O	0.11	0.11	0.42	0.02	0.07	0.07	5.62	1.79	3.86	4.02	5.33	6.21	2.40	0.90	1.37	0.85
P_2O_5	0.12	0.07	0.05	0.04	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.16	0.16	0.00
Cr_2O_3	0.00	0.04	0.06	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00
Total	83.99	86.64	88.16	90.76	94.76	94.94	95.45	92.12	83.92	89.96	95.87	96.47	88.09	95.25	96.19	94.08
Si	2.29	2.31	2.34	2.16	2.08	2.24	2.24	2.46	2.26	2.33	2.28	2.24	2.31	1.93	1.91	1.96
Al	0.74	0.71	0.66	0.85	0.97	0.80	0.80	0.56	0.79	0.70	0.77	0.81	0.69	1.01	1.06	0.91
Ca	0.17	0.18	0.15	0.00	0.03	0.01	0.00	0.01	0.03	0.02	0.00	0.00	0.03	0.31	0.36	0.01
Na	0.25	0.26	0.32	0.82	0.70	0.59	0.36	0.34	0.15	0.28	0.30	0.35	0.34	0.34	0.29	0.23
K	0.01	0.01	0.02	0.00	0.00	0.00	0.25	0.08	0.19	0.19	0.23	0.27	0.11	0.04	0.06	0.04

Volume 120B
Chapter 10

Table 6

Table 6. Major element concentrations of fresh glasses from Kerguelen Plateau fallout ash layers.

Layer	L 1	L 1	L 1	L 1	L 1	L 1	L 1	L 1	L 1	L 2	L 2	L 2	L 2	L 2	L 2	L 2
Leg	119	119	119	119	119	119	119	119	119	119	119	119	119	119	119	119
Hole	736 A	736 A	736 A	736 A	736 A	736 A	736 A	736 A	736 A	736 A	736 A	736 A	736 A	736 A	736 A	736 A
Core, Section	3H-1	3H-1	3H-1	3H-1	3H-1	3H-1	3H-1	3H-1	3H-1	3H-2	3H-2	3H-2	3H-2	3H-2	3H-2	3H-2
Interval [cm]	130-132	130-132	130-132	130-132	130-132	130-132	130-132	130-132	130-132	24-26	24-26	24-26	24-26	24-26	24-26	24-26
Original values																
SiO_2	64.90	59.45	60.28	57.95	58.27	57.66	61.26	60.21	60.76	63.56	64.63	64.91	65.14	63.90	63.89	63.43
TiO_2	0.48	0.30	0.33	0.24	0.37	0.27	0.00	0.00	0.00	0.42	0.87	0.34	0.49	0.39	0.52	0.75
Al_2O_3	16.19	17.76	18.00	17.79	17.84	17.38	18.38	17.95	17.86	15.85	16.56	16.16	16.42	16.38	15.75	16.94
FeO	4.49	4.78	4.72	4.47	4.71	5.27	3.50	3.39	3.60	4.66	3.12	4.27	4.64	4.16	3.02	3.36
MnO	0.18	0.20	0.07	0.23	0.11	0.17	0.13	0.22	0.21	0.13	0.10	0.18	0.17	0.13	0.04	0.17
MgO	0.21	0.26	0.21	0.15	0.21	0.25	0.01	0.01	0.00	0.24	0.59	0.16	0.23	0.22	0.39	0.53
CaO	0.58	1.55	1.38	1.07	1.24	0.87	0.48	0.37	0.43	0.65	0.45	0.54	0.84	0.57	0.72	0.67
Na_2O	6.46	6.10	6.14	6.63	5.66	6.23	7.06	6.30	6.73	4.88	5.70	6.40	5.36	6.07	4.59	5.56
K_2O	5.53	6.19	6.24	5.78	6.31	6.27	4.90	4.82	4.68	5.69	6.27	5.61	5.84	6.12	6.06	6.76
P_2O_5	0.09	0.13	0.10	0.10	0.10	0.03	0.00	0.03	0.01	0.08	0.24	0.05	0.13	0.02	0.11	0.16
Cr_2O_3	0.00	0.00	0.00	0.00	0.01	0.03	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.06	0.02
Total	99.11	96.73	97.48	94.43	94.83	94.42	95.72	93.31	94.30	96.15	98.53	98.65	99.25	97.97	95.18	98.36
Normalized values																
SiO_2	65.49	61.45	61.84	61.37	61.45	61.06	64.00	64.53	64.44	66.11	65.60	65.80	65.63	65.22	67.13	64.48
TiO_2	0.49	0.31	0.34	0.26	0.39	0.29	0.00	0.00	0.00	0.43	0.88	0.34	0.50	0.40	0.55	0.76
Al_2O_3	16.34	18.36	18.47	18.84	18.81	18.40	19.20	19.23	18.94	16.49	16.81	16.39	16.55	16.72	16.55	17.23
FeO	4.53	4.94	4.84	4.74	4.97	5.58	3.65	3.63	3.82	4.85	3.17	4.33	4.67	4.25	3.18	3.42
MnO	0.19	0.21	0.07	0.24	0.12	0.18	0.13	0.24	0.22	0.13	0.10	0.18	0.17	0.13	0.05	0.17
MgO	0.21	0.27	0.22	0.16	0.22	0.26	0.02	0.01	0.00	0.24	0.60	0.17	0.23	0.23	0.41	0.54
CaO	0.58	1.60	1.42	1.14	1.31	0.92	0.51	0.40	0.45	0.68	0.46	0.55	0.85	0.58	0.76	0.69
Na_2O	6.52	6.31	6.30	7.02	5.97	6.59	7.37	6.76	7.14	5.08	5.78	6.49	5.40	6.19	4.82	5.65
K_2O	5.58	6.40	6.40	6.12	6.66	6.64	5.12	5.17	4.96	5.92	6.36	5.69	5.89	6.24	6.37	6.87
P_2O_5	0.09	0.13	0.10	0.11	0.11	0.04	0.00	0.03	0.01	0.08	0.24	0.06	0.13	0.02	0.12	0.17
Cr_2O_3	0.00	0.00	0.00	0.00	0.01	0.03	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.07	0.02

Layer	L 2	L 2	L 2	L 2	L 2	L 2	L 3	L 3	L 3	L 3	L 3	L 3	L 3	L 3	L 3	L 4
Leg	119	119	119	119	119	119	119	119	119	119	119	119	119	119	119	119
Hole	736 A	736 A	736 A	736 A	736 A	736 A	736 A	736 A	736 A	736 A	736 A	736 A	736 A	736 A	736 A	736 A
Core, Section	3H-2	3H-2	3H-2	3H-2	3H-2	3H-2	6H-1	6H-1	6H-1	6H-1	6H-1	6H-1	6H-1	6H-1	6H-1	7H-1
Interval [cm]	24-26	24-26	24-26	24-26	24-26	24-26	44-46	44-46	44-46	44-46	44-46	44-46	44-46	44-46	44-46	10-12
Original values																
SiO_2	63.99	64.36	64.34	64.53	62.22	65.12	55.17	63.28	62.25	64.59	48.59	49.05	53.78	69.09	64.12	66.25
TiO_2	0.36	0.39	0.41	0.50	0.72	0.35	2.17	1.15	0.40	0.63	3.43	3.81	1.04	0.51	0.53	0.11
Al_2O_3	16.03	15.70	16.36	16.39	16.38	16.01	14.50	12.67	15.52	16.33	13.81	13.25	14.57	13.05	16.40	16.06
FeO	2.87	4.13	4.41	4.24	3.21	4.45	10.08	9.28	4.51	3.18	11.77	12.78	11.40	4.35	4.99	1.83
MnO	0.11	0.08	0.15	0.13	0.10	0.16	0.21	0.17	0.14	0.19	0.18	0.20	0.25	0.26	0.15	0.05
MgO	0.19	0.10	0.22	0.28	0.55	0.12	3.99	1.50	0.15	0.49	4.82	4.00	4.18	0.23	0.33	0.04
CaO	0.43	0.61	0.64	0.73	0.68	0.68	7.44	5.43	0.70	0.26	9.26	8.19	8.81	0.00	0.92	0.00
Na_2O	5.87	5.18	6.36	5.82	4.81	5.57	4.39	4.03	5.19	6.16	3.47	3.72	2.98	5.50	5.56	6.86
K_2O	6.04	5.25	6.13	6.08	6.34	5.74	0.61	0.90	5.45	6.30	0.97	1.34	0.52	5.01	5.98	5.68
P_2O_5	0.05	0.05	0.10	0.08	0.13	0.06	0.45	0.29	0.11	0.06	0.60	0.70	0.25	0.02	0.10	0.00
Cr_2O_3	0.01	0.00	0.00	0.04	0.02	0.01	0.02	0.00	0.00	0.02	0.01	0.00	0.00	0.02	0.00	0.00
Total	95.95	95.85	99.12	98.82	95.16	98.28	99.03	98.70	94.42	98.23	96.92	97.05	97.76	98.05	99.08	96.88
Normalized values																
SiO_2	66.69	67.15	64.91	65.30	65.39	66.26	55.71	64.11	65.93	65.76	50.13	50.54	55.01	70.47	64.72	68.38
TiO_2	0.37	0.41	0.41	0.50	0.75	0.36	2.19	1.17	0.43	0.64	3.54	3.93	1.06	0.52	0.53	0.11
Al_2O_3	16.71	16.38	16.51	16.59	17.21	16.29	14.65	12.84	16.44	16.63	14.25	13.65	14.90	13.31	16.56	16.58
FeO	2.99	4.31	4.45	4.29	3.37	4.53	10.18	9.40	4.78	3.24	12.14	13.17	11.66	4.44	5.04	1.89
MnO	0.11	0.08	0.16	0.14	0.10	0.16	0.21	0.18	0.15	0.20	0.19	0.20	0.26	0.26	0.15	0.05
MgO	0.20	0.11	0.22	0.28	0.58	0.13	4.03	1.52	0.16	0.50	4.97	4.13	4.27	0.24	0.33	0.04
CaO	0.45	0.64	0.65	0.74	0.71	0.69	7.51	5.50	0.74	0.27	9.56	8.44	9.01	0.00	0.93	0.00
Na_2O	6.12	5.40	6.41	5.89	5.05	5.67	4.43	4.08	5.49	6.27	3.58	3.83	3.04	5.61	5.61	7.08
K_2O	6.30	5.48	6.19	6.15	6.67	5.84	0.62	0.91	5.77	6.41	1.00	1.39	0.53	5.11	6.04	5.87
P_2O_5	0.05	0.05	0.10	0.08	0.14	0.06	0.45	0.29	0.11	0.07	0.62	0.72	0.25	0.02	0.10	0.00
Cr_2O_3	0.01	0.00	0.00	0.04	0.02	0.01	0.02	0.00	0.00	0.02	0.01	0.00	0.00	0.02	0.00	0.00

Layer	L 4	L 4	L 4	L 4	L 4	L 4	L 4	L 4	L 4	L 4	L 4	L 10	L 10	L 10	L 10	L 10
Leg	119	119	119	119	119	119	119	119	119	119	119	119	119	119	119	119
Hole	736 A	736 A	736 A	736 A	736 A	736 A	736 A	736 A	736 A	736 A	736 A	737 A	737 A	737 A	737 A	737 A
Core, Section	7H-1	7H-1	7H-1	7H-1	7H-1	7H-1	7H-1	7H-1	7H-1	7H-1	7H-1	9H-4	9H-4	9H-4	9H-4	9H-4
Interval [cm]	10-12	10-12	10-12	10-12	10-12	10-12	10-12	10-12	10-12	10-12	10-12	76-78	76-78	76-78	76-78	76-78
Original values																
SiO_2	64.72	65.84	63.39	65.34	49.11	65.77	64.88	64.99	64.77	51.30	51.49	66.09	65.23	66.42	65.95	65.86
TiO_2	0.31	0.40	0.25	0.47	3.80	0.34	0.54	0.42	0.38	1.43	1.37	0.50	0.51	0.46	0.43	0.42
Al_2O_3	14.30	15.70	14.18	16.44	13.40	15.52	15.92	15.89	15.21	15.25	16.17	14.16	14.12	13.45	13.87	13.29
FeO	5.09	5.06	4.18	4.21	13.28	4.93	3.20	2.71	2.84	8.96	8.27	4.54	4.51	4.57	4.83	4.48
MnO	0.22	0.18	0.12	0.14	0.28	0.22	0.22	0.15	0.08	0.17	0.11	0.17	0.20	0.26	0.22	0.17
MgO	0.05	0.11	0.14	0.23	3.94	0.10	0.31	0.30	0.25	5.68	5.45	0.15	0.20	0.14	0.14	0.11
CaO	0.45	0.64	0.52	0.71	8.35	0.57	0.13	0.22	0.15	9.97	9.89	0.56	0.62	0.44	0.50	0.48
Na_2O	5.55	5.99	4.96	5.67	3.89	5.84	5.64	5.35	5.24	4.01	3.85	3.10	3.29	3.36	3.82	3.48
K_2O	5.12	5.36	4.88	5.98	1.31	5.24	5.57	5.66	5.22	0.37	0.33	4.64	4.96	5.10	4.75	4.91
P_2O_5	0.00	0.11	0.03	0.10	0.71	0.06	0.08	0.07	0.03	0.35	0.30	0.09	0.06	0.04	0.02	0.04
Cr_2O_3	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.03	0.01	0.05	0.00	0.00	0.08	0.07	0.00
Total	95.81	99.40	92.64	99.28	98.08	98.58	96.52	95.77	94.20	97.51	97.29	94.01	93.69	94.33	94.60	93.24
Normalized values																
SiO_2	67.55	66.24	68.42	65.82	50.07	66.72	67.22	67.86	68.76	52.61	52.93	70.30	69.62	70.42	69.71	70.63
TiO_2	0.32	0.41	0.26	0.47	3.87	0.35	0.56	0.44	0.40	1.47	1.41	0.53	0.55	0.48	0.46	0.45
Al_2O_3	14.93	15.79	15.31	16.56	13.66	15.74	16.49	16.59	16.15	15.64	16.62	15.06	15.07	14.26	14.66	14.26
FeO	5.31	5.09	4.52	4.24	13.54	5.00	3.32	2.83	3.01	9.19	8.50	4.83	4.81	4.85	5.10	4.80
MnO	0.23	0.19	0.13	0.15	0.29	0.23	0.23	0.16	0.08	0.17	0.11	0.18	0.21	0.28	0.24	0.19
MgO	0.05	0.11	0.15	0.23	4.02	0.10	0.32	0.31	0.27	5.83	5.61	0.16	0.22	0.15	0.15	0.12
CaO	0.47	0.64	0.56	0.72	8.51	0.58	0.14	0.23	0.15	10.23	10.16	0.60	0.67	0.47	0.52	0.52
Na_2O	5.79	6.03	5.35	5.71	3.96	5.92	5.84	5.59	5.56	4.11	3.96	3.30	3.51	3.56	4.04	3.73
K_2O	5.34	5.39	5.27	6.02	1.34	5.32	5.77	5.91	5.54	0.38	0.33	4.94	5.29	5.41	5.02	5.27
P_2O_5	0.00	0.11	0.04	0.10	0.73	0.06	0.08	0.07	0.03	0.36	0.30	0.10	0.06	0.04	0.02	0.04
Cr_2O_3	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.04	0.01	0.05	0.00	0.00	0.08	0.07	0.00

Layer	L 10	L 10	L 10	L 10	L 10	L 10	L 10	L 10	L 10	L 10	L 10	L 10	L 10	L 11	L 11	L 11
Leg	119	119	119	119	119	119	119	119	119	119	119	119	119	119	119	119
Hole	737 A	737 A	737 A	737 A	737 A	737 A	737 A	737 A	737 A	737 A	737 A	737 A	737 A	737 B	737 B	737 B
Core, Section	9H-4	9H-4	9H-4	9H-4	9H-4	9H-4	9H-4	9H-4	9H-4	9H-4	9H-4	9H-4	9H-4	5R-1	5R-1	5R-1
Interval [cm]	76-78	76-78	76-78	76-78	76-78	76-78	76-78	76-78	76-78	76-78	76-78	76-78	76-78	122-124	122-124	122-124
Original values																
SiO_2	66.24	65.20	65.95	64.93	64.83	64.23	63.11	64.21	63.27	62.86	63.74	54.90	64.88	65.25	64.65	48.00
TiO_2	0.46	0.45	0.39	0.48	0.11	0.51	0.63	0.59	0.56	0.62	0.54	2.10	0.65	0.31	0.37	2.19
Al_2O_3	13.33	13.38	13.53	13.76	15.88	14.79	14.90	14.80	14.39	14.59	14.14	15.14	14.43	15.23	15.03	14.96
FeO	4.79	4.63	4.60	4.79	1.74	4.74	4.92	4.95	4.66	4.58	4.50	7.38	4.73	3.56	3.61	10.88
MnO	0.27	0.13	0.21	0.21	0.01	0.22	0.15	0.21	0.16	0.19	0.16	0.22	0.24	0.12	0.11	0.18
MgO	0.12	0.11	0.11	0.16	0.03	0.25	0.32	0.32	0.27	0.36	0.25	2.33	0.24	0.11	0.15	5.73
CaO	0.52	0.44	0.50	0.45	0.00	0.55	0.76	0.60	0.49	0.60	0.53	4.24	0.55	0.50	0.62	9.42
Na_2O	3.62	3.95	4.10	4.45	6.10	5.20	3.54	4.62	5.02	4.41	4.03	4.24	4.41	3.21	2.39	4.09
K_2O	4.55	4.87	4.85	5.45	5.73	6.02	5.52	5.80	5.76	6.13	5.26	4.18	5.35	4.88	4.29	1.16
P_2O_5	0.04	0.03	0.03	0.04	0.00	0.07	0.13	0.07	0.05	0.12	0.09	0.75	0.04	0.04	0.03	0.52
Cr_2O_3	0.03	0.00	0.01	0.02	0.00	0.00	0.00	0.02	0.01	0.00	0.00	0.05	0.01	0.00	0.00	0.01
Total	93.97	93.19	94.29	94.75	94.42	96.56	93.97	96.19	94.63	94.47	93.23	95.53	95.51	93.21	91.24	97.12
Normalized values																
SiO_2	70.49	69.96	69.95	68.53	68.66	66.51	67.15	66.75	66.86	66.53	68.37	57.47	67.93	70.01	70.85	49.42
TiO_2	0.49	0.48	0.41	0.50	0.11	0.53	0.67	0.61	0.59	0.66	0.57	2.19	0.68	0.33	0.41	2.25
Al_2O_3	14.19	14.36	14.35	14.52	16.82	15.31	15.85	15.39	15.20	15.45	15.17	15.85	15.10	16.34	16.47	15.40
FeO	5.10	4.97	4.88	5.06	1.84	4.91	5.24	5.14	4.92	4.85	4.83	7.72	4.95	3.82	3.96	11.20
MnO	0.28	0.14	0.22	0.22	0.01	0.23	0.16	0.22	0.17	0.20	0.17	0.23	0.25	0.12	0.12	0.18
MgO	0.12	0.12	0.11	0.17	0.03	0.26	0.34	0.34	0.28	0.38	0.26	2.44	0.25	0.12	0.17	5.90
CaO	0.55	0.47	0.53	0.48	0.00	0.57	0.81	0.63	0.52	0.63	0.57	4.44	0.58	0.54	0.68	9.69
Na_2O	3.85	4.24	4.35	4.69	6.46	5.38	3.77	4.80	5.30	4.67	4.32	4.44	4.61	3.44	2.62	4.21
K_2O	4.85	5.22	5.14	5.75	6.07	6.23	5.87	6.03	6.09	6.49	5.64	4.38	5.60	5.24	4.70	1.19
P_2O_5	0.04	0.03	0.03	0.05	0.00	0.07	0.13	0.07	0.05	0.13	0.10	0.79	0.04	0.05	0.04	0.53
Cr_2O_3	0.04	0.00	0.01	0.02	0.00	0.00	0.00	0.02	0.02	0.00	0.00	0.05	0.02	0.00	0.00	0.01

Layer	L 12	L 12	L 13	L 13	L 13	L 13	L 13	L 13	L 13	L 13	L 13	L 13	L 13	L 13	L 13
Leg	119	119	119	119	119	119	119	119	119	119	119	119	119	119	119
Hole	737 B	737 B	737 B	737 B	737 B	737 B	737 B	737 B	737 B	737 B	737 B	737 B	737 B	737 B	737 B
Core, Section	5R-1	5R-1	15R-4	15R-4	15R-4	15R-4	15R-4	15R-4	15R-4	15R-4	15R-4	15R-4	15R-4	15R-4	15R-4
Interval [cm]	127-128	127-128	66-69	66-69	66-69	66-69	66-69	66-69	66-69	66-69	66-69	66-69	66-69	66-69	66-69
Original values															
SiO_2	59.70	64.11	51.67	50.57	50.35	50.46	50.52	50.55	50.27	50.48	50.31	50.50	50.72	50.67	50.53	50.36
TiO_2	0.87	0.37	3.17	3.42	3.53	3.50	3.33	3.58	3.49	3.41	3.48	3.50	3.55	3.48	3.46	3.47
Al_2O_3	16.82	14.85	13.35	12.64	12.68	12.65	12.88	12.72	12.71	12.59	12.84	12.89	12.75	12.80	12.82	12.71
FeO	4.27	5.05	11.94	13.85	13.56	13.79	13.60	13.77	13.26	13.13	13.28	13.85	13.91	13.46	13.25	13.16
MnO	0.11	0.15	0.26	0.14	0.19	0.18	0.22	0.18	0.17	0.18	0.22	0.23	0.22	0.22	0.17	0.15
MgO	0.61	0.11	4.29	4.39	4.39	4.40	4.35	4.28	4.35	4.45	4.33	3.88	3.93	4.43	4.39	4.39
CaO	1.20	0.42	8.86	8.31	8.40	8.48	8.40	8.38	8.50	8.50	8.51	8.34	8.29	8.47	8.76	8.45
Na_2O	3.89	7.18	2.97	2.60	2.98	2.92	2.79	2.84	2.96	2.93	2.71	2.86	2.93	2.84	2.71	2.82
K_2O	5.56	5.26	1.18	1.10	1.09	1.05	1.05	1.06	1.09	1.05	1.11	1.24	0.87	1.02	1.05	1.06
P_2O_5	0.19	0.01	0.50	0.48	0.56	0.51	0.42	0.50	0.55	0.52	0.52	0.54	0.51	0.45	0.48	0.50
Cr_2O_3	0.00	0.10	0.00	0.04	0.00	0.02	0.02	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
Total	93.23	97.62	98.21	97.54	97.72	97.96	97.59	97.91	97.34	97.25	97.31	97.83	97.69	97.84	97.64	97.06
Normalized values																
SiO_2	64.04	65.68	52.61	51.85	51.52	51.52	51.77	51.63	51.64	51.91	51.70	51.62	51.92	51.79	51.75	51.88
TiO_2	0.94	0.37	3.23	3.51	3.61	3.57	3.41	3.65	3.58	3.51	3.58	3.58	3.63	3.55	3.54	3.57
Al_2O_3	18.04	15.22	13.59	12.96	12.98	12.91	13.20	12.99	13.06	12.95	13.19	13.18	13.05	13.08	13.13	13.10
FeO	4.58	5.18	12.16	14.19	13.88	14.08	13.94	14.07	13.62	13.50	13.64	14.15	14.24	13.76	13.57	13.56
MnO	0.12	0.15	0.26	0.15	0.20	0.19	0.22	0.19	0.17	0.19	0.22	0.24	0.23	0.23	0.17	0.16
MgO	0.65	0.11	4.37	4.50	4.49	4.49	4.46	4.37	4.47	4.57	4.45	3.97	4.02	4.52	4.49	4.52
CaO	1.29	0.43	9.03	8.52	8.60	8.66	8.60	8.55	8.73	8.74	8.75	8.53	8.49	8.66	8.98	8.71
Na_2O	4.17	7.36	3.03	2.67	3.05	2.98	2.86	2.90	3.04	3.02	2.78	2.92	3.00	2.90	2.78	2.91
K_2O	5.97	5.39	1.20	1.13	1.11	1.07	1.08	1.09	1.12	1.08	1.15	1.26	0.90	1.04	1.08	1.09
P_2O_5	0.21	0.01	0.51	0.49	0.57	0.52	0.43	0.51	0.56	0.53	0.53	0.55	0.53	0.46	0.49	0.51
Cr_2O_3	0.00	0.10	0.00	0.04	0.00	0.02	0.02	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00

Layer	L 13	L 13	L 13	L 13	L 13	L 18	L 18	L 18	L 18	L 18	L 18	L 18	L 18	L 18	L 18	L 18
Leg	119	119	119	119	119	119	119	119	119	119	119	119	119	119	119	119
Hole	737 B	737 B	737 B	737 B	737 B	745 B	745 B	745 B	745 B	745 B	745 B	745 B	745 B	745 B	745 B	745 B
Core, Section	15R-4	15R-4	15R-4	15R-4	15R-4	12H-2	12H-2	12H-2	12H-2	12H-2	12H-2	12H-2	12H-2	12H-2	12H-2	12H-2
Interval [cm]	66-69	66-69	66-69	66-69	66-69	103-105	103-105	103-105	103-105	103-105	103-105	103-105	103-105	103-105	103-105	103-105
Original values																
SiO_2	50.64	50.59	50.46	50.38	50.72	64.58	64.86	61.07	59.41	59.40	60.43	59.47	59.81	65.38	59.35	59.97
TiO_2	3.45	3.45	3.37	3.47	3.53	0.50	0.48	0.87	0.87	0.93	0.88	0.93	0.81	0.59	0.88	0.81
Al_2O_3	12.80	12.80	12.74	12.65	12.68	13.63	13.87	15.76	15.87	15.91	15.55	16.14	15.34	14.79	15.71	15.55
FeO	13.78	13.28	13.35	13.43	14.02	5.15	5.01	5.27	4.92	5.32	5.33	4.81	4.99	5.14	5.13	4.96
MnO	0.14	0.14	0.17	0.21	0.24	0.14	0.17	0.11	0.13	0.19	0.17	0.27	0.14	0.26	0.22	0.19
MgO	4.41	4.29	4.30	4.36	4.00	0.09	0.17	0.57	0.67	0.72	0.42	0.70	0.51	0.19	0.59	0.52
CaO	8.46	8.41	8.45	8.45	8.22	0.50	0.43	1.33	1.52	1.53	0.92	1.49	1.18	0.75	1.39	1.23
Na_2O	2.96	2.87	2.96	2.99	2.72	4.51	5.99	5.02	4.53	4.39	4.64	4.68	4.28	5.16	4.77	4.79
K_2O	1.07	1.09	1.02	1.07	1.22	5.25	5.79	5.81	5.77	6.41	6.00	6.02	5.83	5.59	6.22	6.00
P_2O_5	0.50	0.58	0.46	0.51	0.51	0.05	0.10	0.31	0.29	0.32	0.22	0.35	0.22	0.12	0.26	0.18
Cr_2O_3	0.00	0.01	0.00	0.02	0.04	0.05	0.00	0.00	0.00	0.02	0.02	0.01	0.00	0.00	0.00	0.00
Total	98.21	97.51	97.28	97.55	97.91	94.47	96.87	96.13	93.99	95.15	94.58	94.88	93.11	97.96	94.53	94.20
Normalized values																
SiO_2	51.56	51.89	51.87	51.65	51.80	68.36	66.95	63.53	63.21	62.43	63.90	62.68	64.23	66.74	62.78	63.66
TiO_2	3.52	3.54	3.47	3.56	3.60	0.53	0.49	0.91	0.93	0.98	0.93	0.98	0.87	0.60	0.93	0.86
Al_2O_3	13.03	13.13	13.09	12.96	12.95	14.43	14.32	16.40	16.88	16.72	16.45	17.01	16.48	15.10	16.62	16.51
FeO	14.03	13.62	13.73	13.77	14.32	5.46	5.18	5.48	5.23	5.59	5.64	5.07	5.36	5.25	5.43	5.27
MnO	0.14	0.15	0.18	0.21	0.25	0.15	0.17	0.12	0.14	0.20	0.18	0.28	0.15	0.26	0.24	0.21
MgO	4.49	4.40	4.42	4.47	4.09	0.09	0.17	0.60	0.71	0.76	0.44	0.74	0.55	0.19	0.63	0.55
CaO	8.61	8.62	8.69	8.66	8.40	0.53	0.44	1.39	1.62	1.61	0.97	1.57	1.26	0.76	1.47	1.31
Na_2O	3.01	2.94	3.04	3.06	2.78	4.78	6.19	5.22	4.82	4.61	4.90	4.93	4.60	5.26	5.05	5.08
K_2O	1.09	1.11	1.05	1.10	1.25	5.56	5.98	6.04	6.14	6.74	6.34	6.34	6.26	5.70	6.58	6.37
P_2O_5	0.51	0.60	0.47	0.53	0.52	0.06	0.10	0.32	0.31	0.34	0.24	0.37	0.23	0.13	0.28	0.19
Cr_2O_3	0.00	0.01	0.00	0.02	0.04	0.06	0.00	0.00	0.00	0.02	0.02	0.02	0.00	0.00	0.00	0.00

Layer	L 18	L 19	L 19	L 19	L 19	L 19	L 19	L 19	L 19	T 1	T 1	T 1	T 1	T 1	T 1
Leg	119	119	119	119	119	119	119	119	119	120	120	120	120	120	120
Hole	745 B	745 B	745 B	745 B	745 B	745 B	745 B	745 B	745 B	747 A	747 A	747 A	747 A	747 A	747 A
Core, Section	12H-2	20H-5	20H-5	20H-5	20H-5	20H-5	20H-5	20H-5	20H-5	3-1	3-1	3-1	3-1	3-1	3-1
Interval [cm]	103-105	13-14	13-14	13-14	13-14	13-14	13-14	13-14	13-14	40-42	40-42	40-42	40-42	40-42	40-42
Original values															
SiO_2	60.94	62.57	63.53	62.87	63.76	63.85	62.34	65.24	64.25	64.76	62.33	61.94	61.38	62.80	66.61
TiO_2	0.75	0.53	0.52	0.60	0.55	0.56	0.68	0.52	0.58	0.91	1.16	1.11	1.03	0.80	0.47
Al_2O_3	15.68	15.10	15.00	14.76	15.39	14.03	15.07	13.63	15.41	16.85	16.41	16.51	16.55	16.16	14.17
FeO	4.95	4.25	4.20	4.64	4.29	5.26	4.71	5.22	4.11	5.29	5.36	5.34	5.06	5.13	5.05
MnO	0.25	0.17	0.09	0.25	0.26	0.12	0.17	0.18	0.19	0.23	0.18	0.17	0.17	0.28	0.23
MgO	0.51	0.26	0.31	0.34	0.34	0.24	0.38	0.21	0.29	0.64	0.60	0.86	0.67	0.49	0.10
CaO	1.22	0.68	0.72	0.70	0.71	0.55	0.76	0.51	0.52	1.62	1.40	1.61	1.49	1.19	0.61
Na_2O	4.89	4.38	4.50	4.04	4.72	4.44	4.14	3.37	5.29	1.57	4.74	4.48	4.24	3.85	4.13
K_2O	5.91	6.15	5.64	5.36	5.60	5.21	5.70	5.22	5.90	3.39	6.13	6.35	6.22	5.65	4.86
P_2O_5	0.20	0.06	0.09	0.08	0.05	0.05	0.17	0.06	0.07	0.20	0.28	0.33	0.30	0.22	0.12
Cr_2O_3	0.02	0.00	0.01	0.00	0.01	0.00	0.03	0.02	0.00	0.00	0.00	0.04	0.00	0.00	0.05
Total	95.32	94.15	94.61	93.64	95.69	94.32	94.15	94.18	96.62	95.47	98.59	98.75	97.11	96.57	96.38
Normalized values															
SiO_2	63.93	66.46	67.15	67.14	66.63	67.70	66.21	69.27	66.50	67.83	63.22	62.72	63.21	65.03	69.11
TiO_2	0.79	0.57	0.55	0.64	0.58	0.59	0.72	0.56	0.60	0.96	1.18	1.13	1.06	0.83	0.48
Al_2O_3	16.45	16.04	15.85	15.77	16.08	14.88	16.01	14.48	15.95	17.65	16.65	16.72	17.05	16.73	14.70
FeO	5.19	4.52	4.44	4.95	4.49	5.57	5.00	5.54	4.25	5.54	5.43	5.41	5.21	5.31	5.24
MnO	0.26	0.18	0.10	0.27	0.27	0.12	0.18	0.19	0.20	0.24	0.18	0.17	0.17	0.29	0.24
MgO	0.53	0.28	0.32	0.36	0.35	0.26	0.40	0.22	0.30	0.67	0.61	0.87	0.69	0.51	0.10
CaO	1.28	0.72	0.76	0.75	0.74	0.59	0.81	0.54	0.54	1.70	1.42	1.63	1.53	1.23	0.63
Na_2O	5.13	4.65	4.76	4.32	4.94	4.71	4.40	3.58	5.48	1.65	4.81	4.54	4.37	3.99	4.29
K_2O	6.20	6.53	5.96	5.72	5.85	5.52	6.05	5.54	6.10	3.55	6.22	6.43	6.40	5.85	5.04
P_2O_5	0.21	0.06	0.10	0.08	0.06	0.05	0.18	0.06	0.08	0.21	0.28	0.34	0.31	0.23	0.13
Cr_2O_3	0.02	0.00	0.01	0.00	0.01	0.00	0.04	0.02	0.00	0.00	0.00	0.04	0.00	0.00	0.05

Layer	T 1	T 1	T 1	T 2	T 2	T 2	T 2	T 2	T 2	T 2	T 2	T 2	T 2	T 2	T 2	T 2
Leg	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120
Hole	747 A	747 A	747 A	747 A	747 A	747 A	747 A	747 A	747 A	747 A	747 A	747 A	747 A	747 A	747 A	747 A
Core, Section	3-1	3-1	3-1	3-2	3-2	3-2	3-2	3-2	3-2	3-2	3-2	3-2	3-2	3-2	3-2	3-2
Interval [cm]	40-42	40-42	40-42	119-121	119-121	119-121	119-121	119-121	119-121	119-121	119-121	119-121	119-121	119-121	119-121	119-121
Original values																
SiO_2	61.23	65.87	66.00	62.81	64.91	62.10	59.91	61.57	61.39	64.96	61.19	61.06	61.85	61.47	59.98	61.83
TiO_2	1.13	0.46	0.46	0.49	0.51	0.48	0.84	0.58	0.41	0.48	0.66	0.61	0.40	0.28	0.51	0.50
Al_2O_3	16.50	14.46	14.71	18.06	18.56	18.22	17.93	17.91	18.07	14.72	17.92	18.01	18.37	18.48	17.42	18.09
FeO	5.64	5.02	5.35	4.04	4.20	4.10	3.71	3.63	3.76	5.37	3.68	3.61	4.06	4.26	3.79	3.92
MnO	0.24	0.25	0.20	0.08	0.12	0.17	0.13	0.09	0.11	0.31	0.10	0.10	0.15	0.04	0.12	0.17
MgO	0.96	0.12	0.20	0.37	0.31	0.36	0.70	0.47	0.30	0.24	0.49	0.49	0.35	0.26	0.42	0.42
CaO	1.79	0.66	0.75	0.48	0.77	0.60	1.41	0.72	0.57	0.84	0.79	0.76	0.62	0.63	0.85	0.78
Na_2O	5.03	4.09	4.54	5.41	2.72	5.69	4.63	5.04	5.27	4.06	5.25	4.79	5.16	5.34	4.30	5.20
K_2O	6.33	5.07	5.19	6.13	4.86	5.80	7.02	6.23	5.43	5.19	6.18	6.27	5.53	5.35	5.75	5.87
P_2O_5	0.44	0.04	0.05	0.11	0.08	0.03	0.25	0.13	0.08	0.11	0.11	0.08	0.06	0.08	0.09	0.08
Cr_2O_3	0.00	0.00	0.07	0.05	0.00	0.01	0.00	0.00	0.04	0.02	0.04	0.00	0.00	0.00	0.00	0.00
Total	99.30	96.03	97.53	98.02	97.04	97.56	96.54	96.38	95.43	96.30	96.41	95.79	96.56	96.18	93.24	96.88
Normalized values																
SiO_2	61.66	68.59	67.67	64.08	66.89	63.65	62.06	63.89	64.33	67.46	63.47	63.75	64.05	63.91	64.33	63.83
TiO_2	1.14	0.48	0.47	0.50	0.53	0.49	0.87	0.60	0.42	0.49	0.69	0.64	0.42	0.29	0.55	0.52
Al_2O_3	16.62	15.06	15.09	18.42	19.13	18.67	18.57	18.59	18.93	15.28	18.59	18.81	19.03	19.22	18.68	18.67
FeO	5.68	5.22	5.48	4.12	4.33	4.20	3.84	3.77	3.94	5.58	3.81	3.76	4.21	4.43	4.07	4.05
MnO	0.24	0.26	0.21	0.08	0.13	0.17	0.14	0.10	0.12	0.32	0.11	0.11	0.16	0.04	0.13	0.18
MgO	0.97	0.13	0.20	0.37	0.32	0.37	0.72	0.49	0.32	0.25	0.51	0.51	0.36	0.27	0.45	0.44
CaO	1.80	0.68	0.77	0.49	0.79	0.62	1.47	0.74	0.60	0.88	0.82	0.79	0.64	0.65	0.91	0.80
Na_2O	5.07	4.26	4.66	5.52	2.80	5.84	4.79	5.23	5.53	4.21	5.44	5.00	5.34	5.55	4.62	5.37
K_2O	6.38	5.27	5.32	6.25	5.01	5.94	7.27	6.46	5.69	5.39	6.41	6.54	5.73	5.56	6.17	6.06
P_2O_5	0.45	0.04	0.06	0.12	0.09	0.03	0.26	0.13	0.08	0.11	0.12	0.09	0.06	0.08	0.10	0.09
Cr_2O_3	0.00	0.00	0.07	0.05	0.00	0.01	0.00	0.00	0.04	0.02	0.04	0.00	0.00	0.00	0.00	0.00

Layer	T 2	T 2	T 2	T 2	T 2	T 2	T 3	T 3	T 3	T 3	T 3	T 3	T 3	T 3	T 3	T 3
Leg	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120
Hole	747 A	747 A	747 A	747 A	747 A	747 A	747 A	747 A	747 A	747 A	747 A	747 A	747 A	747 A	747 A	747 A
Core, Section	3-2	3-2	3-2	3-2	3-2	3-2	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4
Interval [cm]	119-121	119-121	119-121	119-121	119-121	119-121	72-74	72-74	72-74	72-74	72-74	72-74	72-74	72-74	72-74	72-74
Original values																
SiO_2	61.89	61.09	61.71	62.16	61.35	62.23	67.63	67.41	65.63	62.79	62.50	63.85	63.77	61.89	67.11	61.94
TiO_2	0.46	0.43	0.65	0.69	0.41	0.48	0.67	0.42	0.49	1.13	1.18	0.70	0.79	0.91	0.48	1.00
Al_2O_3	18.35	18.06	18.23	18.00	18.19	18.01	16.09	14.19	14.85	16.88	16.93	15.85	15.80	16.07	14.42	16.39
FeO	3.96	4.12	3.60	3.53	3.89	4.06	4.77	4.94	5.23	5.53	5.74	5.08	4.85	5.18	4.88	5.04
MnO	0.15	0.16	0.10	0.11	0.06	0.09	0.20	0.22	0.18	0.21	0.24	0.22	0.17	0.23	0.25	0.14
MgO	0.36	0.35	0.52	0.45	0.30	0.40	0.29	0.08	0.15	0.92	0.30	0.47	0.52	0.67	0.14	0.71
CaO	0.64	0.62	0.85	0.82	0.78	0.67	1.15	0.68	0.87	1.67	1.84	1.27	1.26	1.66	0.78	1.62
Na_2O	5.92	5.11	5.69	5.81	4.64	5.55	1.39	3.53	3.85	4.04	4.16	3.40	4.24	3.10	3.43	3.70
K_2O	5.75	6.13	5.73	5.75	5.75	5.67	3.04	4.96	5.24	6.26	6.22	5.67	5.90	6.08	5.14	7.19
P_2O_5	0.15	0.11	0.11	0.19	0.05	0.09	0.22	0.07	0.07	0.33	0.49	0.22	0.15	0.33	0.00	0.37
Cr_2O_3	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.04	0.06	0.01	0.01	0.04	0.00	0.05	0.02	0.00
Total	97.64	96.18	97.18	97.53	95.40	97.25	95.51	96.54	96.62	99.76	100.21	96.77	97.45	96.18	96.65	98.10
Normalized values																
SiO_2	63.38	63.52	63.50	63.74	64.30	63.99	70.80	69.83	67.92	62.94	62.37	65.98	65.44	64.35	69.44	63.15
TiO_2	0.47	0.45	0.66	0.71	0.42	0.49	0.70	0.44	0.51	1.13	1.18	0.72	0.81	0.95	0.50	1.02
Al_2O_3	18.80	18.78	18.76	18.46	19.06	18.52	16.85	14.69	15.37	16.92	16.89	16.38	16.21	16.71	14.92	16.70
FeO	4.06	4.29	3.70	3.62	4.08	4.17	4.99	5.12	5.41	5.54	5.73	5.25	4.98	5.38	5.05	5.14
MnO	0.15	0.16	0.10	0.12	0.07	0.09	0.21	0.23	0.19	0.21	0.24	0.23	0.17	0.24	0.26	0.15
MgO	0.37	0.37	0.54	0.46	0.31	0.41	0.30	0.08	0.16	0.92	0.89	0.49	0.53	0.69	0.15	0.72
CaO	0.65	0.65	0.87	0.84	0.82	0.69	1.21	0.70	0.90	1.67	1.83	1.31	1.29	1.73	0.81	1.65
Na_2O	6.06	5.31	5.86	5.96	4.86	5.70	1.45	3.65	3.99	4.05	4.16	3.51	4.35	3.23	3.54	3.77
K_2O	5.89	6.37	5.89	5.90	6.02	5.83	3.18	5.14	5.42	6.28	6.20	5.86	6.06	6.32	5.32	7.33
P_2O_5	0.16	0.11	0.12	0.20	0.05	0.10	0.23	0.07	0.07	0.33	0.49	0.23	0.16	0.34	0.00	0.38
Cr_2O_3	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.05	0.06	0.01	0.01	0.04	0.00	0.06	0.02	0.00

Layer	T 3	T 3	T 3	T 3	T 4	T 4	T 4	T 4	T 4	T 4	T 4	T 4	T 5	T 5	T 5	T 5
Leg	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120
Hole	747 A	747 A	747 A	747 A	747 A	747 A	747 A	747 A	747 A	747 A	747 A	747 A	747 A	747 A	747 A	747 A
Core, Section	3-4	3-4	3-4	3-4	3-6	3-6	3-6	3-6	3-6	3-6	3-6	3-6	17-4	17-4	17-4	17-4
Interval [cm]	72-74	72-74	72-74	72-74	62-64	62-64	62-64	62-64	62-64	62-64	62-64	62-64	72-74	72-74	72-74	72-74
Original values																
SiO_2	60.51	67.37	64.92	65.13	60.76	60.90	61.28	61.52	60.96	61.30	61.06	60.94	51.13	52.79	50.62	50.69
TiO_2	0.60	0.36	0.67	0.58	0.74	0.55	0.52	0.49	0.74	0.56	0.44	0.77	3.54	3.60	3.77	3.57
Al_2O_3	14.29	13.40	15.95	15.23	18.01	18.31	18.49	18.73	18.23	18.50	18.35	18.20	12.66	13.47	12.66	12.14
FeO	4.98	5.13	5.00	4.91	4.11	4.09	4.15	4.18	4.11	3.86	4.31	4.22	14.11	12.14	14.26	13.61
MnO	0.24	0.24	0.29	0.23	0.09	0.08	0.16	0.11	0.16	0.13	0.13	0.15	0.09	0.17	0.17	0.15
MgO	0.30	0.08	0.32	0.24	0.57	0.51	0.34	0.39	0.61	0.45	0.41	0.68	4.09	3.94	3.77	4.81
CaO	0.99	0.60	1.11	1.00	1.55	1.22	0.97	0.92	1.22	1.11	1.28	1.35	8.30	7.70	8.02	9.08
Na_2O	3.13	2.49	4.06	4.31	3.45	4.16	4.67	4.64	4.79	4.42	4.75	4.23	2.38	3.46	2.43	2.35
K_2O	5.27	4.64	5.64	5.35	6.41	6.75	6.01	5.94	6.09	6.32	6.23	5.77	1.09	1.23	1.19	1.11
P_2O_5	0.07	0.02	0.20	0.04	0.23	0.16	0.11	0.11	0.13	0.15	0.16	0.19	0.68	0.65	0.54	0.59
Cr_2O_3	0.02	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.01	0.00	0.00
Total	90.40	94.33	98.15	97.05	95.92	96.75	96.69	97.03	97.05	96.81	97.11	96.50	98.11	99.16	97.44	98.09
Normalized values																
SiO_2	66.93	71.42	66.14	67.11	63.34	62.95	63.37	63.40	62.82	63.32	62.87	63.15	52.11	53.24	51.95	51.68
TiO_2	0.66	0.38	0.68	0.60	0.77	0.57	0.54	0.50	0.77	0.58	0.45	0.80	3.61	3.63	3.87	3.64
Al_2O_3	15.81	14.20	16.26	15.70	18.77	18.92	19.12	19.30	18.78	19.11	18.89	18.86	12.90	13.58	13.00	12.37
FeO	5.51	5.43	5.09	5.06	4.29	4.23	4.29	4.31	4.23	3.99	4.44	4.37	14.38	12.25	14.63	13.87
MnO	0.27	0.26	0.29	0.24	0.10	0.08	0.16	0.12	0.17	0.13	0.13	0.15	0.09	0.17	0.17	0.15
MgO	0.34	0.08	0.33	0.25	0.60	0.53	0.35	0.41	0.63	0.47	0.43	0.70	4.17	3.98	3.87	4.90
CaO	1.09	0.64	1.13	1.03	1.61	1.27	1.01	0.95	1.26	1.14	1.32	1.40	8.46	7.77	8.23	9.26
Na_2O	3.46	2.64	4.14	4.45	3.60	4.30	4.82	4.78	4.94	4.57	4.89	4.39	2.43	3.49	2.50	2.40
K_2O	5.84	4.92	5.74	5.52	6.68	6.98	6.22	6.12	6.28	6.52	6.42	5.98	1.11	1.24	1.22	1.13
P_2O_5	0.08	0.02	0.21	0.04	0.24	0.16	0.12	0.11	0.13	0.16	0.17	0.20	0.69	0.65	0.56	0.61
Cr_2O_3	0.02	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.01	0.00	0.00

Layer	T 5	T 5	T 5	T 5	T 5	T 6	T 6	T 6	T 6	T 6	T 6	T 6	T 6	T 6	T 6	T 6
Leg	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120
Hole	747 A	747 A	747 A	747 A	747 A	747 A	747 A	747 A	747 A	747 A	747 A	747 A	747 A	747 A	747 A	747 A
Core, Section	17-4	17-4	17-4	17-4	17-4	17-6	17-6	17-6	17-6	17-6	17-6	17-6	17-6	17-6	17-6	17-6
Interval [cm]	72-74	72-74	72-74	72-74	72-74	27-29	27-29	27-29	27-29	27-29	27-29	27-29	27-29	27-29	27-29	27-29
Original values																
SiO_2	51.30	50.32	53.23	50.37	50.63	48.73	49.88	49.44	50.39	51.00	52.75	50.23	56.31	54.89	50.22	50.13
TiO_2	3.82	3.74	3.37	3.90	3.70	3.35	3.45	3.18	3.17	3.41	3.17	3.61	2.31	2.21	3.08	3.19
Al_2O_3	12.58	12.83	12.53	12.87	12.65	12.19	12.57	13.01	12.71	13.04	13.71	12.29	12.64	12.53	12.56	12.90
FeO	13.57	12.37	13.32	13.15	14.81	13.10	12.74	13.65	13.25	13.40	11.24	13.46	12.15	12.00	12.07	13.03
MnO	0.14	0.12	0.15	0.14	0.15	0.18	0.11	0.19	0.14	0.17	0.22	0.20	0.15	0.22	0.13	0.15
MgO	4.16	4.75	2.96	4.19	4.21	4.22	4.26	4.61	3.89	4.51	5.52	4.19	2.44	2.39	5.51	4.78
CaO	8.16	8.86	6.98	8.52	8.26	8.34	8.29	8.86	8.34	8.67	9.39	7.80	5.85	5.88	10.00	8.92
Na_2O	2.26	2.72	3.51	2.49	2.53	2.31	1.36	1.41	1.94	1.11	0.85	1.18	1.38	2.33	2.74	1.99
K_2O	1.20	1.13	1.39	1.01	1.12	1.02	1.38	1.48	1.29	1.02	1.40	1.73	1.66	1.92	1.20	1.37
P_2O_5	0.66	0.62	0.75	0.70	0.57	0.54	0.63	0.53	0.52	0.68	0.59	0.52	0.84	0.85	0.56	0.55
Cr_2O_3	0.00	0.00	0.00	0.03	0.00	0.03	0.00	0.00	0.00	0.02	0.00	0.05	0.00	0.00	0.00	0.01
Total	97.85	97.47	98.19	97.37	98.63	94.01	94.66	96.37	95.64	97.02	98.85	95.26	95.73	95.21	98.08	97.02
Normalized values																
SiO_2	52.43	51.63	54.21	51.73	51.33	51.83	52.70	51.31	52.69	52.56	53.36	52.73	58.83	57.65	51.20	51.67
TiO_2	3.91	3.84	3.43	4.00	3.75	3.57	3.64	3.30	3.32	3.52	3.21	3.79	2.41	2.32	3.14	3.29
Al_2O_3	12.86	13.17	12.76	13.22	12.82	12.96	13.28	13.50	13.29	13.44	13.87	12.90	13.21	13.16	12.81	13.30
FeO	13.87	12.69	13.57	13.51	15.01	13.93	13.45	14.17	13.86	13.81	11.37	14.13	12.70	12.61	12.31	13.43
MnO	0.14	0.12	0.15	0.15	0.16	0.19	0.12	0.20	0.15	0.17	0.22	0.21	0.15	0.23	0.13	0.15
MgO	4.25	4.88	3.01	4.30	4.27	4.49	4.50	4.79	4.06	4.65	5.59	4.39	2.55	2.51	5.62	4.92
CaO	8.34	9.09	7.10	8.75	8.37	8.87	8.76	9.19	8.71	8.94	9.50	8.19	6.11	6.18	10.19	9.20
Na_2O	2.31	2.79	3.57	2.56	2.57	2.46	1.43	1.47	2.03	1.15	0.86	1.24	1.44	2.45	2.80	2.05
K_2O	1.23	1.16	1.42	1.04	1.14	1.09	1.45	1.53	1.35	1.05	1.42	1.82	1.73	2.01	1.23	1.41
P_2O_5	0.67	0.63	0.77	0.72	0.57	0.58	0.66	0.55	0.54	0.70	0.60	0.55	0.88	0.89	0.57	0.57
Cr_2O_3	0.00	0.00	0.00	0.03	0.00	0.03	0.00	0.00	0.00	0.02	0.00	0.05	0.00	0.00	0.00	0.01

Layer	T 6	T 6	T 6	T 6	T 6	T 6	T 6	T 6
Leg	120	120	120	120	120	120	120	120
Hole	747 A	747 A	747 A	747 A	747 A	747 A	747 A	747 A
Core, Section	17-6	17-6	17-6	17-6	17-6	17-6	17-6	17-6
Interval [cm]	27-29	27-29	27-29	27-29	27-29	27-29	27-29	27-29
Original values								
SiO_2	51.26	49.87	50.47	52.02	51.29	50.73	67.03	51.18
TiO_2	3.39	3.48	3.48	3.30	3.68	3.22	1.18	3.48
Al_2O_3	12.56	12.73	12.58	12.50	13.16	12.89	12.76	12.91
FeO	13.14	13.69	14.07	13.88	13.37	12.75	5.47	13.15
MnO	0.20	0.19	0.24	0.15	0.21	0.24	0.18	0.10
MgO	4.26	4.39	4.25	3.83	3.77	4.77	0.75	3.95
CaO	8.43	8.14	8.26	7.84	7.93	8.78	2.65	8.03
Na_2O	2.32	1.17	2.73	2.92	2.98	2.24	2.84	2.59
K_2O	1.34	1.57	1.26	1.29	1.46	1.25	3.62	1.36
P_2O_5	0.63	0.62	0.48	0.52	0.66	0.61	0.35	0.52
Cr_2O_3	0.01	0.14	0.00	0.02	0.01	0.01	0.01	0.00
Total	97.55	95.99	97.82	98.26	98.52	97.49	96.83	97.29
Normalized values								
SiO_2	52.55	51.96	51.59	52.94	52.06	52.03	69.23	52.60
TiO_2	3.47	3.62	3.56	3.36	3.73	3.31	1.22	3.58
Al_2O_3	12.88	13.26	12.86	12.73	13.36	13.23	13.17	13.27
FeO	13.47	14.26	14.38	14.13	13.58	13.08	5.65	13.52
MnO	0.21	0.20	0.24	0.15	0.21	0.25	0.18	0.10
MgO	4.37	4.57	4.35	3.89	3.82	4.89	0.78	4.06
CaO	8.64	8.48	8.44	7.98	8.05	9.01	2.74	8.25
Na_2O	2.38	1.22	2.79	2.97	3.02	2.29	2.93	2.67
K_2O	1.38	1.64	1.29	1.32	1.48	1.28	3.74	1.40
P_2O_5	0.65	0.64	0.49	0.53	0.67	0.63	0.36	0.53
Cr_2O_3	0.01	0.14	0.00	0.02	0.01	0.01	0.01	0.00

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Appendix

APPENDIX
Major Element Analyses of All Glass Samples

AWI no.	P_2O_5	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	K_2O	Na_2O
Discrete tephra layers:										
22	0.00	64.26	0.75	15.90	5.48	0.24	0.00	1.44	6.17	5.76
22	0.00	64.59	0.70	15.38	5.68	0.20	0.00	1.55	5.85	5.95
22	0.00	65.84	0.65	14.41	5.42	0.31	0.00	1.21	5.46	6.60
22	0.00	65.94	0.57	14.33	5.34	0.36	0.00	1.21	5.56	6.57
22	0.00	66.34	0.45	14.59	5.60	0.00	0.00	1.24	5.53	6.16
22	0.00	66.37	0.42	14.79	5.48	0.00	0.00	1.11	5.65	6.18
22	0.00	66.79	0.38	14.08	5.59	0.34	0.00	0.91	5.34	6.49
22	0.00	67.15	0.44	13.91	5.56	0.31	0.00	0.90	5.36	6.27
22	0.00	67.20	0.54	14.15	5.31	0.23	0.00	0.88	5.28	6.33
23	0.00	61.37	0.30	17.96	4.35	0.25	0.00	0.91	5.54	9.04
23	0.00	62.33	0.37	18.10	4.01	0.25	0.00	1.13	5.94	7.61
23	0.00	63.02	0.55	17.66	3.89	0.00	0.00	1.27	6.47	7.14
23	0.00	62.31	0.64	17.98	3.80	0.22	0.00	1.44	6.16	7.34
23	0.00	61.87	0.34	17.72	4.55	0.00	0.00	1.14	6.26	7.87
23	0.00	62.78	0.45	17.73	4.03	0.00	0.00	1.14	6.09	7.60
23	0.00	62.58	0.55	17.70	4.01	0.23	0.00	1.18	6.09	7.48
23	0.00	62.78	0.51	17.76	4.08	0.00	0.00	1.15	6.08	7.50
23	0.00	62.85	0.63	18.05	3.82	0.00	0.00	1.10	6.06	7.42
24	0.00	62.22	1.57	16.61	5.56	0.23	0.00	2.61	5.28	5.86
24	0.00	62.85	1.00	16.21	5.63	0.00	0.00	2.18	6.30	5.72
24	0.00	63.22	0.88	16.11	5.34	0.25	0.00	1.83	6.56	5.81
24	0.00	64.06	0.90	15.89	5.60	0.00	0.00	1.70	6.28	5.57
24	0.00	64.31	0.82	15.95	5.46	0.00	0.00	1.61	6.06	5.80
24	0.00	64.63	0.68	15.57	5.57	0.21	0.00	1.56	6.23	5.56
24	0.00	64.71	0.74	15.40	5.42	0.27	0.00	1.44	5.92	6.03
24	0.00	65.56	0.65	15.05	5.51	0.23	0.00	1.18	5.66	6.09
24	0.00	65.98	0.56	14.90	5.42	0.18	0.00	1.18	5.65	6.05
24	0.00	66.24	0.48	14.07	5.62	0.27	0.00	1.09	5.35	6.73
24	0.00	66.25	0.46	15.08	5.48	0.00	0.00	1.14	5.56	5.93
24	0.00	66.59	0.47	14.49	5.39	0.28	0.00	1.15	5.45	6.14
24	0.00	66.67	0.41	14.61	5.39	0.23	0.00	1.04	5.41	6.11
24	0.00	67.19	0.50	14.05	5.32	0.29	0.00	0.99	5.29	6.23
25	0.42	51.40	3.40	14.56	13.71	0.00	3.78	8.51	2.05	2.60
25	0.51	55.07	2.81	14.99	12.75	0.00	2.37	7.13	1.95	2.93
25	0.65	55.32	2.60	14.74	12.31	0.32	2.46	6.96	2.13	3.16
25	0.00	65.43	0.69	13.39	7.48	0.36	0.00	2.02	5.33	5.20
25	0.00	65.44	0.58	13.84	8.35	0.22	0.00	2.37	5.32	3.88
25	0.00	65.53	0.65	13.37	7.67	0.39	0.00	2.10	5.20	5.03
25	0.00	65.69	0.52	13.36	7.20	0.24	0.00	1.79	5.21	5.89
25	0.00	66.20	0.62	13.02	7.26	0.29	0.00	1.59	5.45	5.50
25	0.00	67.40	0.50	14.54	5.98	0.00	0.00	2.25	4.64	4.62
25	0.00	69.14	0.36	14.27	4.67	0.00	0.00	2.01	4.45	5.02
25	0.00	69.45	0.53	14.35	4.39	0.00	0.00	1.60	5.06	4.61
25	0.00	69.45	0.37	12.09	6.07	0.24	0.00	0.95	5.34	5.35
25	0.00	69.75	0.50	12.60	6.21	0.00	0.00	1.00	5.66	4.17
25	0.00	69.88	0.41	11.77	5.95	0.19	0.00	0.77	5.28	5.62
25	0.00	70.21	0.36	14.28	4.22	0.00	0.00	1.54	5.29	3.96
25	0.00	70.25	0.42	12.08	6.01	0.22	0.00	0.84	5.71	4.31
25	0.00	71.95	0.53	10.88	5.76	0.22	0.00	0.54	5.37	4.56
25	0.00	72.03	0.46	10.80	5.85	0.00	0.00	0.51	5.44	4.68
25	0.00	73.21	0.39	10.23	5.67	0.00	0.00	0.44	5.26	4.63
25	0.00	74.19	0.44	10.76	5.70	0.00	0.00	0.64	5.09	2.97
26	0.00	50.35	3.01	14.50	12.36	0.22	4.57	10.24	1.69	3.06
26	0.00	50.57	2.57	14.46	12.20	0.30	5.36	10.72	1.08	2.74
26	0.00	50.80	3.09	14.61	13.57	0.18	4.29	9.80	1.62	2.04
26	0.00	51.30	3.33	13.89	13.92	0.34	3.52	8.99	1.40	3.30
26	0.24	51.62	3.31	14.70	13.08	0.24	3.37	8.40	1.43	3.86
26	0.51	53.50	3.12	14.48	13.37	0.20	2.50	6.89	2.03	3.85
26	0.68	53.68	3.12	14.84	11.90	0.29	2.88	7.12	1.90	4.28
26	0.44	54.43	2.93	14.59	12.46	0.23	2.70	7.52	1.68	3.46
26	0.72	54.82	2.50	14.50	12.75	0.33	2.29	7.19	2.02	3.59
26	0.00	55.38	2.99	14.68	11.47	0.31	1.94	6.73	2.16	4.34
26	0.47	55.74	2.34	14.21	12.37	0.25	2.52	7.06	1.96	3.55
26	0.39	56.09	2.36	14.64	12.45	0.25	2.12	6.80	2.11	3.19
26	0.51	56.80	2.59	15.14	10.55	0.25	1.63	6.72	2.12	4.18
26	0.00	57.93	1.81	14.21	12.49	0.31	0.70	5.68	2.30	4.58
26	0.00	60.73	1.58	14.41	9.97	0.33	0.76	4.60	3.03	4.48
26	0.00	63.38	1.11	14.58	8.42	0.19	0.30	3.77	3.47	4.77
26	0.00	65.42	0.59	15.15	5.41	0.28	0.00	1.38	6.41	5.31
26	0.00	65.88	0.66	14.33	7.27	0.00	0.00	2.97	4.03	4.76
26	0.00	67.27	0.42	14.98	5.99	0.00	0.00	2.33	4.73	4.16

Appendix (continued).

AWI no.	P_2O_5	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	K_2O	Na_2O
26	0.00	67.61	0.55	14.24	5.53	0.21	0.00	1.93	4.91	4.93
26	0.00	68.08	0.48	14.51	4.79	0.17	0.00	1.78	5.10	4.95
26	0.00	68.55	0.54	14.32	4.93	0.00	0.00	2.04	4.89	4.64
26	0.00	68.81	0.52	14.40	4.63	0.00	0.00	1.83	4.91	4.90
26	0.00	69.73	0.45	14.34	4.53	0.17	0.00	1.70	5.18	3.77
27	0.00	65.90	0.80	14.78	5.39	0.22	0.00	1.04	5.31	6.42
27	0.00	66.39	0.58	14.21	5.53	0.34	0.00	0.96	5.35	6.51
27	0.00	66.49	0.49	14.39	5.59	0.00	0.00	0.92	5.49	6.53
27	0.00	66.91	0.51	13.40	5.81	0.21	0.00	0.82	5.32	6.88
27	0.00	67.57	0.44	13.51	5.86	0.18	0.00	0.78	5.45	6.05
27	0.00	67.70	0.52	12.52	6.14	0.38	0.00	0.83	5.09	6.53
27	0.00	68.33	0.47	12.47	6.32	0.16	0.00	0.62	5.27	6.20
27	0.00	68.46	0.62	12.22	6.19	0.23	0.00	0.65	5.16	6.16
27	0.00	68.54	0.43	12.70	5.79	0.21	0.00	0.76	5.04	6.32
27	0.00	68.84	0.44	12.23	6.26	0.22	0.00	0.67	4.83	6.28
48	0.00	60.69	0.56	18.41	4.51	0.21	0.00	1.50	6.26	7.61
48	0.00	61.10	0.52	18.59	4.30	0.00	0.00	1.48	6.54	7.23
48	0.00	61.26	0.89	17.89	4.70	0.00	0.00	2.12	6.35	6.64
48	0.00	61.59	0.73	18.18	4.53	0.19	0.00	1.66	6.83	6.14
48	0.00	61.82	0.60	18.11	4.36	0.00	0.00	1.65	6.71	6.64
48	0.00	61.91	0.76	18.18	4.36	0.00	0.00	1.68	6.71	6.26
48	0.00	62.00	0.81	17.84	4.35	0.18	0.00	1.71	6.40	6.55
48	0.00	62.18	0.57	18.06	4.26	0.00	0.00	1.67	6.35	6.70
48	0.00	63.01	0.68	17.77	4.32	0.00	0.00	1.86	6.57	5.79
48	0.00	67.74	0.31	14.10	5.17	0.00	0.00	1.18	5.42	5.89
48	0.00	73.50	0.18	11.59	3.72	0.19	0.00	0.29	4.73	5.44
86-2	0.00	63.77	0.51	17.40	4.43	0.00	0.00	1.41	6.46	5.84
86-2	0.00	63.21	0.64	17.67	4.44	0.00	0.00	1.55	6.69	5.68
86-2	0.00	63.23	0.61	17.56	4.72	0.00	0.00	1.46	6.59	5.68
86-2	0.00	63.95	0.57	17.03	4.67	0.00	0.00	1.41	6.21	5.98
86-2	0.00	65.67	0.40	15.70	4.75	0.22	0.00	1.08	5.90	5.95
86-2	0.00	64.45	0.46	17.17	4.60	0.00	0.00	1.23	6.25	5.68
86-2	0.00	64.05	0.50	17.21	4.39	0.17	0.00	1.32	6.39	5.80
86-2	0.00	65.88	0.28	15.89	4.79	0.00	0.00	1.07	5.81	6.02
86-2	0.00	65.88	0.37	16.02	4.58	0.00	0.00	1.10	5.80	5.92
86-2	0.00	72.51	0.18	12.24	3.50	0.00	0.00	0.41	5.32	5.13
87-1	0.32	54.33	2.20	17.52	8.73	0.00	1.64	5.90	4.53	4.73
87-1	0.22	53.65	2.43	18.69	7.93	0.00	1.57	6.21	5.07	4.07
87-1	0.00	57.02	1.99	17.34	7.96	0.15	0.95	5.29	4.55	4.74
87-1	0.00	56.76	1.99	17.83	7.75	0.15	1.13	5.76	3.83	4.68
87-1	0.00	60.03	0.37	19.56	4.51	0.00	0.00	1.33	6.67	7.30
87-1	0.00	59.58	0.39	19.77	4.34	0.00	0.00	1.50	6.68	7.45
87-1	0.00	59.95	0.83	19.05	4.41	0.00	0.00	1.99	6.71	6.87
87-1	0.00	60.09	0.49	19.48	4.66	0.00	0.00	1.67	6.53	6.80
87-1	0.00	60.65	1.16	19.79	4.18	0.00	0.00	2.32	5.41	6.49
87-1	0.00	59.67	0.51	19.69	4.48	0.00	0.00	1.44	6.74	7.16
87-1	0.00	60.04	0.77	19.46	4.47	0.00	0.00	1.58	6.84	6.63
87-1	0.00	60.10	0.57	19.98	4.17	0.00	0.00	1.68	6.95	6.37
87-1	0.00	61.40	0.58	19.51	4.06	0.00	0.00	1.87	7.24	5.34
87-1	0.00	60.21	0.66	19.45	4.15	0.00	0.00	1.98	6.67	6.65
87-1	0.00	62.96	0.70	16.27	5.86	0.25	0.00	1.79	5.99	6.03
87-2	0.00	48.87	3.68	14.07	15.29	0.16	4.50	9.74	1.14	2.49
87-2	0.00	49.34	3.88	14.62	15.39	0.19	3.59	9.58	1.01	2.40
87-2	0.00	50.82	3.69	14.65	14.26	0.28	3.47	8.83	1.36	2.57
87-2	0.00	51.44	3.65	14.23	14.40	0.00	3.27	8.77	1.37	2.88
87-2	0.00	51.46	4.18	15.58	10.64	0.00	3.73	10.24	0.78	3.40
87-2	0.21	52.39	3.77	14.74	13.47	0.19	3.14	8.03	1.88	2.11
87-2	0.00	59.64	0.53	19.71	4.35	0.00	0.00	1.37	6.63	7.44
87-2	0.00	59.73	0.50	19.71	4.57	0.00	0.00	1.48	6.46	7.28
87-2	0.00	59.92	0.40	19.58	4.30	0.00	0.00	1.47	6.68	7.37
87-2	0.00	59.94	0.81	19.18	4.64	0.00	0.00	1.75	6.52	6.98
87-2	0.00	60.30	0.67	19.41	4.34	0.00	0.00	1.77	6.76	6.59
87-2	0.00	60.38	0.44	19.82	4.39	0.00	0.00	1.58	6.38	6.74
87-2	0.00	61.34	1.05	17.77	5.74	0.00	0.00	2.25	6.48	5.36
87-2	0.00	61.76	0.96	17.30	5.79	0.00	0.00	2.03	6.48	5.69
87-2	0.00	66.28	0.35	15.36	5.09	0.00	0.00	1.03	5.74	5.94
87-2	0.00	70.89	0.16	14.37	2.77	0.00	0.00	0.61	5.47	5.15
Dispersed tephra:										
149-1	0.00	51.16	3.68	14.44	12.32	0.31	4.24	8.68	1.38	3.78
149-1	0.90	52.00	3.05	16.00	10.10	0.14	3.42	7.31	3.52	3.58
149-1	0.83	52.03	2.92	16.08	9.95	0.14	3.27	7.21	3.68	3.83

Appendix (continued).

AWI no.	P_2O_5	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	K_2O	Na_2O
149-1	0.89	52.15	3.09	15.95	10.05	0.23	3.37	7.15	3.51	3.62
149-1	0.00	55.17	1.03	15.32	11.56	0.23	4.25	8.81	0.50	2.98
149-1	0.29	55.95	2.19	16.86	8.20	0.26	1.91	5.48	4.51	4.27
149-1	0.23	56.04	2.10	17.00	8.12	0.16	2.03	5.52	4.42	4.39
149-1	0.00	57.78	1.35	20.22	4.42	0.00	0.77	5.84	4.36	5.16
149-1	0.00	57.85	1.26	13.89	12.07	0.27	2.92	7.88	0.63	3.06
149-1	0.00	57.90	1.88	17.83	5.80	0.15	1.20	4.47	5.30	5.33
149-1	0.00	58.05	1.86	17.39	6.24	0.00	1.26	4.16	5.79	5.18
149-1	0.00	58.57	1.74	17.56	6.17	0.14	1.16	4.25	5.59	4.75
149-1	0.20	58.59	2.01	16.63	6.05	0.17	1.10	3.60	6.45	5.03
149-1	0.00	58.59	1.82	17.86	5.86	0.15	1.08	4.42	5.32	4.79
149-1	0.00	58.63	1.77	17.41	6.03	0.14	1.23	3.83	6.05	4.79
149-1	0.00	61.77	0.51	16.99	4.93	0.31	0.00	1.25	5.86	8.12
149-1	0.00	61.94	0.64	19.34	5.18	0.15	0.00	6.87	0.69	5.13
149-1	0.00	65.00	0.38	16.37	4.57	0.00	0.00	1.24	5.97	6.30
149-1	0.00	65.61	0.40	17.08	3.41	0.00	0.00	1.59	6.27	5.46
149-1	0.00	66.03	0.53	14.39	5.20	0.30	0.00	0.96	5.67	6.71
149-1	0.00	67.47	0.73	14.08	4.12	0.35	0.00	0.36	5.32	7.28
149-2	0.00	51.03	3.39	14.63	11.59	0.30	4.75	9.10	1.26	3.87
149-2	0.85	52.03	2.82	16.38	9.79	0.00	3.49	7.24	3.50	3.80
149-2	0.92	52.20	2.92	16.11	9.83	0.16	3.42	7.00	3.51	3.82
149-2	0.87	52.45	2.81	16.01	9.91	0.21	3.20	7.07	3.59	3.81
149-2	0.00	53.55	1.59	15.62	9.48	0.20	5.35	9.52	0.50	4.12
149-2	0.00	54.30	1.45	13.68	13.55	0.28	4.15	8.70	0.73	3.09
149-2	0.00	54.34	1.27	13.08	13.70	0.23	5.36	8.87	0.47	2.68
149-2	0.62	54.77	2.35	16.66	8.29	0.12	2.43	5.98	4.27	4.35
149-2	0.00	56.16	1.10	14.91	12.49	0.25	3.40	8.56	0.37	2.67
149-2	0.00	56.81	1.04	14.36	12.08	0.23	3.39	8.04	0.62	3.28
149-2	0.00	56.82	1.42	16.63	6.99	0.14	4.31	7.93	0.90	4.75
149-2	0.18	57.49	1.85	17.70	6.05	0.00	1.56	4.45	5.26	5.29
149-2	0.16	57.49	1.96	17.41	6.42	0.00	1.51	4.27	5.59	5.07
149-2	0.00	57.73	1.25	20.72	4.22	0.00	0.80	5.92	4.16	5.20
149-2	0.00	57.73	1.89	18.21	5.99	0.00	1.25	4.20	5.53	5.07
149-2	0.00	57.88	1.93	17.39	6.37	0.00	1.68	4.10	5.40	5.16
149-2	0.00	58.01	1.93	17.46	6.06	0.00	1.40	4.21	5.62	5.17
149-2	0.00	58.67	1.82	17.92	5.91	0.00	1.04	4.00	5.93	4.71
149-2	0.00	61.43	1.41	15.90	6.80	0.21	1.89	4.81	1.30	6.13
149-2	0.00	62.07	0.84	15.25	9.31	0.25	2.05	6.45	0.44	3.15
149-2	0.00	64.55	0.36	15.93	4.78	0.20	0.00	1.27	5.50	7.22
149-2	0.00	64.55	0.53	16.77	4.04	0.17	0.00	1.29	6.25	6.25
149-2	0.00	64.94	0.79	15.00	7.31	0.20	0.87	5.03	0.90	4.72
149-2	0.00	65.39	0.64	15.37	5.29	0.23	0.00	1.23	5.62	6.11
149-2	0.00	65.62	0.51	16.93	3.20	0.24	0.00	1.60	6.27	5.35
149-2	0.00	65.95	0.41	17.17	3.03	0.14	0.00	1.52	6.38	5.24
149-2	0.00	69.87	0.64	15.43	3.57	0.00	0.00	2.30	2.09	5.99
150-1	0.00	61.73	0.25	18.07	4.92	0.18	0.00	2.00	6.00	6.69
150-1	0.00	62.02	0.14	18.05	4.98	0.00	0.00	1.75	6.10	6.79
150-1	0.00	62.46	0.00	18.17	4.59	0.20	0.00	2.03	6.02	6.34
150-1	0.00	63.97	0.79	15.43	5.81	0.28	0.00	1.54	5.99	6.20
150-1	0.00	64.28	0.69	15.36	5.83	0.19	0.00	1.46	5.75	6.37
150-1	0.00	64.31	0.58	15.61	5.76	0.19	0.00	1.48	5.97	6.10
150-1	0.00	64.66	0.72	15.39	5.78	0.21	0.00	1.51	5.78	5.95
150-1	0.00	64.70	0.62	15.14	5.82	0.22	0.00	1.46	5.81	6.24
150-1	0.00	64.80	0.57	15.02	5.93	0.24	0.00	1.33	5.39	6.63
150-1	0.00	65.00	0.56	14.41	6.18	0.24	0.00	1.26	5.46	6.76
150-1	0.00	65.06	0.60	14.65	6.04	0.20	0.00	1.19	5.39	6.76
150-1	0.00	65.54	0.55	14.27	5.86	0.25	0.00	1.19	5.48	6.78
150-1	0.00	65.77	0.43	14.51	6.07	0.17	0.00	1.21	5.48	6.30
150-1	0.00	66.89	0.38	13.88	5.55	0.23	0.00	0.93	5.46	6.55
150-1	0.00	67.34	0.51	16.22	3.65	0.15	0.00	1.17	6.02	4.86
150-2	0.00	60.37	0.37	18.64	3.88	0.18	0.00	2.75	6.38	7.17
150-2	0.00	61.27	0.43	18.10	4.14	0.18	0.00	1.15	6.07	8.36
150-2	0.00	61.53	0.35	17.14	5.24	0.26	0.00	1.03	5.99	8.11
150-2	0.00	61.60	0.21	17.26	4.86	0.18	0.00	1.07	5.52	8.91
150-2	0.00	61.63	0.51	17.21	5.06	0.22	0.00	1.21	5.64	8.16
150-2	0.00	61.78	0.30	17.13	5.41	0.25	0.00	1.06	5.61	8.09
150-2	0.00	61.91	0.34	16.84	5.23	0.27	0.00	1.26	5.82	8.00
150-2	0.00	61.99	0.83	17.93	4.23	0.00	0.00	1.90	7.15	5.83
150-2	0.00	62.07	0.34	17.52	4.44	0.15	0.00	1.11	6.16	7.85
150-2	0.00	62.72	0.42	17.32	4.44	0.15	0.00	1.49	6.29	6.87
150-2	0.00	63.43	0.43	17.38	4.17	0.00	0.00	1.40	6.58	6.36
151	0.00	59.45	1.23	17.97	5.14	0.00	0.72	3.17	6.22	5.95
151	0.00	61.59	0.46	18.12	4.16	0.23	0.00	1.35	6.32	7.52

Appendix (continued).

AWI no.	P_2O_5	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	K_2O	Na_2O
151	0.00	61.65	0.53	17.27	5.10	0.15	0.00	1.47	5.99	7.64
151	0.00	61.74	0.43	18.30	4.20	0.00	0.00	1.37	6.49	7.21
151	0.00	61.76	0.73	17.49	4.84	0.19	0.00	1.79	6.65	6.43
151	0.00	61.83	0.60	17.83	4.50	0.24	0.00	1.79	6.57	6.49
151	0.00	61.86	0.72	17.45	4.68	0.29	0.00	1.81	6.64	6.39
151	0.00	62.00	0.60	17.95	4.29	0.16	0.00	1.61	6.41	6.87
152-1	0.37	62.53	1.48	17.57	3.07	0.12	0.00	2.06	8.22	4.57
152-1	0.00	65.30	0.56	16.30	4.44	0.00	0.00	1.35	6.38	5.67
152-1	0.00	65.86	0.71	16.13	4.48	0.28	0.00	1.31	6.19	4.96
152-1	0.00	65.88	0.61	14.76	5.16	0.31	0.00	1.16	5.70	6.27
152-1	0.00	66.34	0.61	15.49	4.34	0.12	0.00	0.97	6.17	5.86
152-1	0.00	66.87	0.61	13.69	5.49	0.29	0.00	0.91	5.33	6.62
152-1	0.00	68.99	0.31	11.93	5.95	0.30	0.00	0.63	5.15	6.53
152-2	0.00	61.09	0.94	17.95	4.98	0.17	0.00	2.28	6.34	6.09
152-2	0.00	61.92	0.63	18.25	4.04	0.18	0.00	1.71	6.67	6.39
152-2	0.00	63.56	0.31	17.68	3.76	0.14	0.00	1.45	6.32	6.56
152-2	0.00	63.59	0.34	17.50	3.81	0.00	0.00	1.54	6.43	6.62
152-2	0.00	63.77	0.34	17.79	3.72	0.15	0.00	1.38	6.31	6.36
152-2	0.00	64.50	0.48	17.19	3.68	0.00	0.00	1.60	6.45	5.91
152-2	0.00	66.19	0.52	16.08	3.08	0.00	0.00	0.86	5.65	7.42
152-2	0.00	74.23	0.22	12.18	2.55	0.00	0.00	0.32	5.06	5.03
152-2	0.00	74.25	0.18	12.10	2.55	0.00	0.00	0.37	5.47	4.75
152-2	0.00	74.34	0.19	12.00	2.60	0.00	0.00	0.41	6.47	3.69
152-2	0.00	74.49	0.00	12.10	2.46	0.00	0.00	0.35	5.22	4.97
152-2	0.00	74.51	0.17	12.14	2.45	0.00	0.00	0.37	4.71	5.23
152-2	0.00	74.56	0.14	12.27	2.48	0.00	0.00	0.25	5.18	4.83
152-2	0.00	74.61	0.14	12.22	2.39	0.00	0.00	0.35	4.88	5.03
153	0.47	52.18	3.21	16.02	10.34	0.15	2.68	7.31	3.49	4.06
153	0.48	52.56	3.34	15.86	10.26	0.20	3.00	7.52	3.81	2.84
153	0.54	53.08	6.03	15.27	9.31	0.20	1.63	5.39	4.10	4.46
153	0.44	55.63	2.69	16.64	8.27	0.20	1.95	5.36	4.24	4.57
153	0.39	56.54	2.22	16.61	7.33	0.00	1.51	6.85	4.18	4.25
153	0.29	57.52	2.11	17.03	6.90	0.17	1.55	4.61	4.58	5.14
153	0.00	59.00	1.63	17.69	6.48	0.00	1.10	4.64	4.66	4.75
153	0.00	59.38	1.49	17.11	6.48	0.00	0.77	3.73	5.78	5.19
153	0.00	62.22	0.69	16.58	3.84	0.00	0.00	4.70	6.05	5.78
153	0.00	64.05	0.78	16.98	3.96	0.22	0.00	1.80	6.28	5.76
153	0.00	64.87	0.55	16.25	4.33	0.18	0.00	1.25	6.10	6.42
153	0.00	66.18	0.69	16.01	2.86	0.17	0.00	0.67	5.68	7.58
153	0.00	66.75	0.46	15.44	4.22	0.17	0.00	0.86	5.85	6.12
153	0.00	66.79	0.56	13.66	5.59	0.32	0.00	0.82	5.38	6.67
153	0.00	67.20	0.49	15.22	4.04	0.00	0.00	0.77	6.18	5.98
153	0.00	68.95	0.47	11.91	5.86	0.21	0.00	0.73	5.05	6.52
154-1	0.00	65.09	0.66	17.19	3.19	0.00	0.00	1.60	6.42	5.64
154-1	0.00	65.31	0.53	17.03	3.04	0.00	0.00	1.34	6.54	6.06
154-1	0.00	65.49	0.59	17.23	2.95	0.00	0.00	1.40	6.72	5.35
154-1	0.00	65.51	0.64	15.59	4.23	0.23	0.00	0.96	6.00	6.68
154-1	0.00	65.53	0.48	17.19	3.05	0.00	0.00	1.31	6.53	5.76
154-1	0.00	65.75	0.53	15.42	4.49	0.32	0.00	0.96	5.64	6.69
154-1	0.00	66.62	0.37	16.53	2.90	0.00	0.00	1.12	6.76	5.48
154-1	0.00	67.15	0.22	17.30	2.02	0.00	0.00	1.02	6.80	5.50
154-1	0.00	68.07	0.41	13.61	5.03	0.15	0.00	0.63	5.26	6.56
154-1	0.00	70.71	0.29	10.92	5.40	0.17	0.00	0.55	4.80	6.53
154-1	0.00	58.63	1.84	17.25	6.09	0.00	1.35	4.47	5.09	5.17
154-2	0.48	51.42	3.34	15.48	11.31	0.15	3.26	7.70	3.74	3.12
154-2	0.54	52.98	2.76	16.41	9.31	0.20	2.38	6.61	3.84	4.90
154-2	0.37	54.36	2.82	15.95	9.58	0.00	2.67	6.80	4.02	3.43
154-2	0.29	56.15	2.22	16.53	8.09	0.17	2.06	5.66	4.04	4.70
154-2	0.00	61.83	0.89	18.06	4.37	0.00	0.00	2.16	6.14	6.43
154-2	0.00	62.88	0.69	18.17	3.91	0.14	0.00	1.83	6.45	5.77
154-2	0.00	65.26	0.41	15.36	4.66	0.00	0.00	0.77	5.65	7.50
154-2	0.00	66.12	0.37	13.90	5.92	0.26	0.00	0.76	5.52	6.71
154-2	0.00	67.03	0.38	15.47	3.72	0.00	0.00	1.13	5.80	6.26
154-2	0.00	67.50	0.38	15.57	3.53	0.00	0.00	0.80	5.48	6.51
154-2	0.00	68.19	0.41	13.33	4.73	0.28	0.00	0.68	5.11	6.71
155-1	0.29	51.75	3.47	15.46	10.54	0.21	3.77	8.06	2.76	3.64
155-1	0.56	51.90	3.31	15.25	11.01	0.28	3.36	8.03	2.72	3.52
155-1	0.49	52.00	3.52	15.28	10.76	0.26	3.42	7.94	2.69	3.58
155-1	0.57	52.36	3.30	15.33	10.57	0.21	3.18	7.83	3.06	3.48
155-1	0.00	63.57	0.80	16.58	4.98	0.00	0.00	1.56	5.93	6.45
155-1	0.00	63.81	0.91	16.55	5.20	0.00	0.00	2.49	5.46	5.42

Appendix (continued).

AWI no.	P_2O_5	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	K_2O	Na_2O
155-1	0.00	63.87	0.84	16.74	4.81	0.00	0.00	2.47	5.52	5.62
155-1	0.00	63.95	0.91	16.72	4.84	0.20	0.00	2.42	5.50	5.39
155-1	0.00	63.94	0.87	16.92	4.55	0.20	0.00	2.20	5.57	5.58
155-1	0.00	63.97	0.80	17.34	4.19	0.22	0.00	2.54	5.31	5.49
155-1	0.00	64.30	0.81	16.72	4.79	0.00	0.00	2.33	5.67	5.26
155-1	0.00	64.31	0.80	16.76	4.73	0.16	0.00	2.27	5.72	5.16
155-1	0.00	64.33	0.82	16.95	4.71	0.00	0.00	2.24	5.48	5.35
155-1	0.00	64.38	0.80	16.64	4.69	0.00	0.00	2.40	5.70	5.28
155-2	0.39	49.40	4.74	15.17	9.66	0.22	3.98	9.30	3.01	4.12
155-2	0.49	50.73	4.33	15.54	10.48	0.18	4.06	8.76	2.68	2.47
155-2	0.00	61.68	0.43	17.86	5.13	0.16	0.00	1.78	6.58	6.16
155-2	0.00	61.74	0.33	17.84	5.29	0.23	0.00	1.85	6.39	6.19
155-2	0.00	61.80	0.50	17.57	5.39	0.15	0.00	2.08	6.02	6.29
155-2	0.00	64.36	0.40	15.79	5.06	0.20	0.00	1.08	5.52	7.38
155-2	0.00	64.44	0.45	15.62	5.24	0.13	0.00	1.35	5.49	7.04
155-2	0.00	64.58	0.41	15.57	5.25	0.13	0.00	1.06	5.17	7.64
155-2	0.00	64.60	0.44	15.65	5.18	0.00	0.00	0.98	5.30	7.65
155-2	0.00	66.42	0.30	16.05	3.72	0.00	0.00	1.03	5.54	6.59
155-2	0.00	67.09	0.36	13.95	5.10	0.18	0.00	0.84	5.42	6.64
155-2	0.00	67.48	0.35	13.08	5.32	0.20	0.00	0.78	5.41	6.90
156-1	0.52	51.26	4.59	14.97	11.73	0.17	3.95	4.12	4.79	3.90
156-1	0.27	52.84	2.40	17.28	9.20	0.00	2.15	6.34	4.44	5.10
156-1	0.00	64.84	0.69	16.93	3.34	0.14	0.00	1.42	6.49	6.02
156-1	0.00	66.74	0.37	13.99	5.32	0.17	0.00	0.82	5.21	7.02
156-1	0.00	68.41	0.17	15.69	2.31	0.00	0.00	0.25	6.13	6.77
156-1	0.00	71.81	0.26	9.62	4.95	0.17	0.00	1.75	4.65	5.99
156-1	0.00	72.69	0.26	9.73	4.98	0.18	0.00	0.29	5.61	5.44
156-1	0.00	72.82	0.33	9.76	4.88	0.18	0.00	0.30	4.95	6.03
156-1	0.00	73.15	0.21	9.74	4.89	0.15	0.00	0.28	4.84	5.90
156-1	0.00	73.56	0.27	9.54	4.97	0.00	0.00	0.35	4.72	5.82
156-2	0.50	50.88	3.79	13.98	12.88	0.24	3.86	8.80	1.75	3.31
156-2	0.57	51.07	3.61	14.39	12.96	0.30	3.65	8.56	1.66	3.23
156-2	0.77	52.08	3.19	13.93	13.23	0.33	3.29	8.15	1.90	3.13
156-2	0.78	52.64	2.95	14.55	12.16	0.24	3.15	7.94	2.10	3.42
156-2	0.71	53.68	2.73	14.44	12.57	0.29	2.60	7.04	2.52	3.43
156-2	0.81	53.80	3.04	14.91	11.68	0.22	2.18	7.06	2.27	3.95
156-2	0.00	66.29	0.76	14.62	6.09	0.27	0.00	2.14	4.51	5.15
156-2	0.00	66.42	0.53	14.48	5.30	0.16	0.00	3.51	4.81	4.69
156-2	0.00	66.97	0.52	14.35	5.31	0.26	0.00	1.94	4.74	5.74
156-2	0.00	66.98	0.55	14.40	5.53	0.17	0.00	1.99	4.62	5.60
156-2	0.00	66.99	0.54	14.47	5.31	0.30	0.00	1.91	4.79	5.52
156-2	0.00	67.13	0.49	14.56	5.31	0.22	0.00	1.83	4.83	5.48
156-2	0.00	67.64	0.45	14.58	5.13	0.28	0.00	1.74	4.80	5.22
156-2	0.00	67.74	0.49	14.44	5.25	0.13	0.00	1.84	4.77	5.24
156-2	0.00	69.06	0.33	14.39	4.54	0.00	0.00	1.72	4.46	5.34
156-2	0.00	73.48	0.67	12.98	2.51	0.00	0.00	1.46	5.79	3.11
157-1	0.00	51.41	3.51	13.29	13.58	0.26	4.80	9.32	1.05	2.78
157-1	0.00	51.43	3.82	13.26	14.36	0.26	4.24	9.10	1.15	2.38
157-1	0.00	51.58	3.64	13.09	14.10	0.21	4.46	9.15	1.37	2.39
157-1	0.00	51.80	3.47	13.08	13.70	0.29	4.55	9.31	1.05	2.74
157-1	0.00	51.81	3.58	13.27	14.02	0.28	4.50	9.00	1.13	2.41
157-1	0.00	52.02	3.76	13.01	13.77	0.22	4.44	9.31	1.23	2.24
157-1	0.00	52.04	3.49	13.08	14.07	0.24	4.00	8.47	1.37	3.24
157-1	0.00	52.91	3.79	13.07	14.45	0.23	3.85	8.34	1.15	2.20
157-1	0.00	64.98	2.77	13.87	7.14	0.00	1.17	5.17	2.75	2.03
157-2	0.00	50.05	2.49	13.94	11.78	0.24	6.29	11.81	0.73	2.54
157-2	0.00	50.17	3.93	13.04	15.04	0.26	4.19	9.09	1.04	3.07
157-2	0.00	50.27	3.02	13.50	13.92	0.31	5.26	10.26	0.73	2.72
157-2	0.00	51.05	3.96	13.22	15.60	0.24	4.20	8.96	1.00	1.77
157-2	0.00	51.98	3.51	13.34	12.93	0.20	4.70	9.30	1.00	2.90
157-2	0.00	52.05	3.68	13.50	12.78	0.24	4.50	8.95	1.38	2.92
157-2	0.00	52.50	3.52	13.70	12.34	0.23	4.79	8.87	1.35	2.68
157-2	0.00	52.96	3.66	13.54	13.99	0.31	3.59	7.99	1.51	2.45
157-2	0.00	53.05	3.61	13.89	12.38	0.28	4.28	8.74	1.45	2.32
157-2	0.00	53.33	3.35	13.21	11.75	0.22	4.35	9.73	1.55	2.51
157-2	0.00	53.94	3.23	13.65	12.96	0.29	3.52	7.82	1.63	2.96
157-2	0.00	54.40	3.26	13.31	13.58	0.30	3.02	7.02	3.39	1.72
157-2	0.00	54.69	3.41	13.47	13.70	0.23	3.21	7.67	1.68	1.94
158-1	0.00	48.99	3.89	14.17	14.13	0.25	4.87	9.73	0.61	3.37
158-1	0.00	49.09	3.60	13.52	12.99	0.27	6.18	11.05	0.30	2.92
158-1	0.00	51.30	3.59	13.51	14.01	0.17	4.48	9.33	0.97	2.64

Appendix (continued).

AWI no.	P_2O_5	SiO_2	TiO_2	Al_2O_3	FeO	MnO	MgO	CaO	K_2O	Na_2O
158-1	0.00	51.81	3.68	13.08	14.75	0.21	4.37	8.38	0.86	2.87
158-1	0.00	51.84	3.40	14.07	13.27	0.29	4.03	8.79	1.18	3.08
158-1	0.00	52.04	3.49	13.08	14.07	0.24	4.00	8.47	1.37	3.24
158-1	0.00	52.20	3.18	13.83	12.29	0.28	4.76	9.47	1.09	2.76
158-1	0.00	52.90	3.14	13.61	13.39	0.24	3.63	8.48	1.29	3.32
158-1	0.00	53.06	3.57	13.17	14.18	0.28	3.79	8.37	1.70	1.87
158-2	0.00	55.62	1.02	15.55	11.18	0.22	4.18	9.43	0.50	2.22
158-2	0.00	51.89	3.75	16.25	10.01	0.00	2.46	10.14	1.32	3.92
159-1	0.22	50.83	3.83	14.14	10.34	0.21	4.64	9.13	3.15	3.52
159-1	0.00	56.27	1.20	15.10	13.23	0.28	3.20	8.34	0.62	1.77
159-1	0.00	57.12	1.71	16.33	8.54	0.00	3.53	7.71	0.74	4.25
159-1	0.00	57.18	0.82	16.91	9.93	0.24	2.89	8.27	0.46	3.14
159-1	0.00	62.05	0.75	16.58	7.36	0.25	2.42	6.32	0.47	3.79
159-1	0.00	63.65	0.56	15.13	6.01	0.29	0.00	1.18	5.39	7.62
159-1	0.00	64.40	0.45	15.09	5.69	0.27	0.00	1.01	5.34	7.61
159-2	0.00	63.84	0.57	15.17	5.91	0.22	0.00	1.01	5.28	7.83
159-2	0.00	64.44	0.40	15.29	5.74	0.25	0.00	1.02	5.21	7.53
159-2	0.00	64.28	0.54	15.00	5.88	0.31	0.00	1.10	5.42	7.32
159-2	0.00	64.43	0.48	15.08	5.98	0.29	0.00	1.19	5.39	7.07
159-2	0.00	64.16	0.50	15.19	5.81	0.27	0.00	1.10	5.35	7.48
159-2	0.00	63.93	0.50	15.17	5.95	0.17	0.00	1.09	5.17	7.88

Notes: The data set is normalized to 100% water-free. Values of "0.00" are below the detection limit. Original sums range between 93% and 98% approximately, depending on the volatile content

Volume 120B
Chapter 14

Appendix A

Appendix A. Weights (grams) of sieved sample fractions, Site 751.

120-751A Core, section, interval (cm)	Depth (mbsf)	Total dry wt bulk sample (g)	<62 μm dry wt (g)	≥62 μm dry wt (g)	≥62 μm to <250 μm dry wt (g)	≥250 μm dry wt (g)
1H-1, 5-7	0.05	3.668	3.073	0.595	0.553	0.042
1H-1, 23-25	0.23	1.484	1.157	0.327	0.240	0.087
1H-1, 43-45	0.43	1.185	0.823	0.362	0.298	0.064
1H-1, 63-65	0.63	1.131	0.787	0.344	0.310	0.034
1H-1, 79-81	0.79	1.050	0.958	0.092	0.058	0.034
1H-1, 103-105	1.03	1.113	1.106	0.007	0.004	0.003
1H-1, 123-125	1.23	1.567	1.258	0.309	0.276	0.033
1H-1, 142-144	1.42	1.468	1.323	0.145	0.127	0.018
1H-2, 10-11	1.60	2.004	1.344	0.660	0.577	0.083
1H-2, 23-25	1.73	1.173	0.988	0.185	0.172	0.013
1H-2, 43-45	1.93	1.341	0.941	0.400	0.363	0.037
1H-2, 60-62	2.10	1.470	1.237	0.233	0.186	0.047
1H-2, 79-81	2.29	1.416	0.867	0.549	0.325	0.224
1H-2, 97-99	2.47	2.016	1.525	0.491	0.406	0.085
1H-2, 120-122	2.70	1.252	0.790	0.462	0.433	0.029
1H-2, 140-142	2.90	1.691	0.914	0.777	0.662	0.115
1H-3, 5-7	3.05	4.159	2.274	1.885	1.826	0.059
1H-3, 43-45	3.43	1.780	1.080	0.700	0.640	0.060
1H-3, 65-67	3.65	2.557	1.343	1.214	1.121	0.093
1H-3, 97-99	3.97	3.165	1.663	1.502	1.363	0.139
1H-3, 137-139	4.37	2.000	0.926	1.074	1.008	0.066
2H-1, 63-65	5.33	1.667	0.971	0.696	0.667	0.029
2H-1, 83-85	5.53	2.883	1.787	1.096	1.740	0.047
2H-1, 103-105	5.73	3.948	2.590	1.358	1.303	0.055
2H-1, 123-125	5.93	4.471	2.988	1.483	1.421	0.062
2H-1, 142-144	6.12	5.362	3.370	1.992	1.858	0.134
2H-2, 5-7	6.25	4.439	2.627	1.812	1.602	0.210
2H-2, 23-25	6.43	3.942	3.341	0.601	0.553	0.048
2H-2, 32-36	6.52	4.021	3.727	0.294	0.276	0.018
2H-2, 43-45	6.63	2.050	1.990	0.060	0.057	0.003

Notes: Data are given for the following size fractions: < 62-μm dry wt, ≥ 62-μm dry wt, ≥ 62-μm to < 250-μm dry wt, and ≥ 250-μm dry wt.

APPENDIX A
(continued)

120-751A Core, section, interval (cm)	Depth (mbsf)	Total dry wt bulk sample (g)	<62 μm dry wt (g)	≥62 μm dry wt (g)	≥62 μm to <250 μm dry wt (g)	≥250 μm dry wt (g)
2H-2, 63-65	6.83	3.095	2.633	0.462	0.432	0.030
2H-2, 83-85	7.03	4.591	2.557	2.034	1.000	1.034
2H-2, 103-105	7.23	3.596	2.970	0.626	0.497	0.129
2H-2, 123-125	7.43	2.815	2.594	0.221	0.191	0.030
2H-2, 142-144	7.62	1.874	1.730	0.144	0.128	0.016
2H-3, 5-7	7.75	3.071	2.714	0.357	0.337	0.020
2H-3, 23-25	7.93	0.892	0.857	0.035	0.030	0.005
2H-3, 32-36	8.02	2.059	1.832	0.227	0.195	0.032
2H-3, 43-45	8.13	1.378	1.198	0.180	0.041	0.139
2H-3, 63-65	8.33	1.389	1.346	0.043	0.036	0.007
2H-3, 83-85	8.53	3.748	3.334	0.414	0.319	0.095
2H-3, 103-105	8.73	1.751	1.657	0.094	0.080	0.014
2H-3, 123-125	8.93	1.870	1.825	0.045	0.038	0.007
2H-3, 142-144	9.12	1.277	1.250	0.027	0.024	0.003
2H-4, 5-7	9.25	2.441	2.242	0.199	0.196	0.003
2H-4, 23-25	9.43	1.628	1.596	0.032	0.029	0.003
2H-4, 43-45	9.63	1.471	1.446	0.025	0.021	0.004
2H-4, 63-65	9.83	1.409	1.386	0.023	0.021	0.002
3H-1, 43-45	14.63	3.178	3.088	0.090	0.084	0.006
3H-1, 63-65	14.83	2.856	2.771	0.085	0.083	0.002
3H-1, 83-85	15.03	2.815	2.733	0.082	0.079	0.003
3H-1, 103-105	15.23	2.136	2.080	0.056	0.055	0.001
3H-1, 123-125	15.43	1.495	1.440	0.055	0.053	0.002
3H-1, 142-144	15.62	2.176	2.106	0.070	0.069	0.001
3H-2, 23-25	15.93	2.721	2.628	0.093	0.091	0.002
3H-2, 43-45	16.13	2.709	2.619	0.090	0.088	0.002
3H-2, 63-65	16.33	2.612	2.531	0.081	0.073	0.008
3H-2, 83-85	16.53	2.487	2.393	0.094	0.092	0.002
3H-2, 103-105	16.73	2.680	2.583	0.097	0.095	0.002
3H-2, 123-125	16.93	3.507	3.332	0.175	0.172	0.003

APPENDIX A
(continued)

120-751A Core, section, interval (cm)	Depth (mbsf)	Total dry wt bulk sample (g)	<62 μm dry wt (g)	≥62 μm dry wt (g)	≥62 μm to <250 μm dry wt (g)	≥250 μm dry wt (g)
3H-3, 23-25	17.43	2.190	2.092	0.098	0.068	0.030
3H-3, 43-45	17.63	4.220	2.554	1.666	0.119	1.547
3H-3, 63-65	17.83	2.846	2.752	0.094	0.087	0.007
3H-3, 83-85	18.03	2.905	2.796	0.109	0.090	0.019
3H-3, 103-105	18.23	3.104	2.889	0.215	0.205	0.010
3H-3, 123-125	18.43	3.640	3.132	0.508	0.458	0.050
3H-3, 142-144	18.62	3.463	3.058	0.405	0.393	0.012
3H-4, 23-25	18.93	3.422	3.166	0.256	0.221	0.035
3H-4, 43-45	19.13	3.448	3.157	0.291	0.246	0.045
3H-4, 63-65	19.33	3.906	3.534	0.372	0.365	0.007
3H-4, 83-85	19.53	3.362	3.181	0.181	0.167	0.014
3H-4, 103-105	19.73	3.039	2.888	0.151	0.143	0.008
3H-4, 123-125	19.93	3.336	3.148	0.188	0.176	0.012
3H-5, 23-25	20.43	3.598	3.473	0.125	0.117	0.008
3H-5, 43-45	20.63	3.150	3.034	0.116	0.111	0.005
3H-5, 63-65	20.83	3.665	3.448	0.217	0.209	0.008
3H-5, 83-85	21.03	3.156	3.008	0.148	0.134	0.014
3H-5, 103-105	21.23	3.104	2.994	0.110	0.086	0.024
3H-5, 123-125	21.43	3.046	2.790	0.256	0.183	0.073
3H-5, 142-144	21.62	3.128	2.848	0.280	0.280	0.004
4H-2, 5-7	25.25	3.761	3.426	0.335	0.257	0.078
4H-2, 83-85	26.03	3.365	2.963	0.402	0.218	0.184
4H-2, 103-105	26.23	2.152	1.983	0.169	0.156	0.013
4H-2, 123-125	26.43	2.265	2.210	0.055	0.049	0.006
4H-2, 142-144	26.62	1.801	1.752	0.049	0.045	0.004
4H-3, 5-7	26.75	3.244	2.881	0.363	0.313	0.050
4H-3, 23-25	26.93	1.868	1.784	0.084	0.072	0.012
4H-3, 43-45	27.13	1.304	1.164	0.140	0.068	0.072
4H-3, 63-65	27.33	1.689	1.408	0.281	0.105	0.176
4H-3, 83-85	27.53	2.741	2.213	0.528	0.485	0.043

APPENDIX A
(continued)

120-751A Core, section, interval (cm)	Depth (mbsf)	Total dry wt bulk sample (g)	<62 μm dry wt (g)	≥62 μm dry wt (g)	≥62 μm to <250 μm dry wt (g)	≥250 μm dry wt (g)
4H-3, 103-105	27.73	3.441	2.868	0.573	0.509	0.064
4H-3, 123-125	27.93	2.915	2.686	0.229	0.203	0.026
4H-3, 142-144	28.12	1.676	1.464	0.212	0.079	0.133
4H-4, 5-7	28.25	2.829	2.535	0.294	0.182	0.112
4H-4, 23-25	28.43	1.912	1.593	0.319	0.319	0.006
4H-4, 43-45	28.63	3.011	2.548	0.463	0.463	0.036
4H-4, 63-65	28.83	2.707	2.249	0.458	0.458	0.029
4H-4, 83-85	29.03	3.298	2.813	0.485	0.433	0.052
4H-4, 103-105	29.23	3.381	2.832	0.549	0.486	0.063
4H-4, 123-125	29.43	3.592	3.134	0.458	0.426	0.032
4H-4, 142-144	29.62	3.371	2.690	0.681	0.643	0.038
4H-5, 23-25	29.93	3.882	3.268	0.614	0.582	0.032
4H-5, 43-45	30.13	3.007	2.747	0.260	0.231	0.029
4H-5, 63-65	30.33	3.799	3.524	0.275	0.258	0.017
4H-5, 83-85	30.53	3.466	3.191	0.275	0.248	0.027
4H-5, 103-105	30.73	2.243	2.029	0.214	0.165	0.049
4H-5, 123-125	30.93	2.646	2.508	0.138	0.125	0.013
4H-5, 142-144	31.12	2.481	2.333	0.148	0.132	0.016
4H-6, 5-7	31.25	3.675	3.420	0.255	0.225	0.030
4H-6, 23-25	31.43	3.387	3.018	0.369	0.279	0.090
4H-6, 63-65	31.83	2.160	1.916	0.244	0.205	0.039
4H-6, 83-85	32.03	3.133	2.700	0.433	0.428	0.005
4H-6, 103-105	32.23	2.929	2.626	0.303	0.176	0.127
4H-6, 142-144	32.62	2.767	2.434	0.333	0.230	0.103
5H-1, 5-7	32.75	5.061	4.495	0.566	0.530	0.036
5H-1, 23-25	33.43	3.139	2.913	0.226	0.191	0.035
5H-1, 43-45	33.63	3.568	3.001	0.567	0.469	0.098
5H-1, 63-65	33.83	1.783	1.728	0.055	0.049	0.006
5H-1, 83-85	34.03	2.233	2.118	0.115	0.101	0.014
5H-1, 103-105	34.23	3.104	2.687	0.417	0.295	0.122

APPENDIX A
(continued)

120-751A Core, section, interval (cm)	Depth (mbsf)	Total dry wt bulk sample (g)	<62 μm dry wt (g)	≥62 μm dry wt (g)	≥62 μm to <250 μm dry wt (g)	≥250 μm dry wt (g)
5H-1, 123-125	34.43	2.332	2.214	0.118	0.102	0.016
5H-1, 142-144	34.62	2.122	2.009	0.113	0.099	0.014
5H-2, 5-7	34.75	2.914	2.549	0.365	0.300	0.065
5H-2, 23-25	34.93	2.340	2.231	0.109	0.091	0.018
5H-2, 43-45	35.13	2.506	2.316	0.190	0.139	0.051
5H-2, 63-65	35.33	2.410	2.155	0.255	0.233	0.022
5H-2, 83-85	35.53	3.728	2.896	0.832	0.765	0.067
5H-2, 103-105	35.73	3.501	2.870	0.631	0.592	0.039
5H-2, 123-125	35.93	3.999	3.563	0.436	0.400	0.036
5H-2, 142-144	36.12	3.322	3.110	0.212	0.177	0.035
5H-3, 5-7	36.25	3.401	3.096	0.305	0.284	0.021
5H-3, 23-25	36.43	3.258	3.099	0.159	0.145	0.014
5H-3, 43-45	36.63	3.204	3.118	0.086	0.077	0.009
5H-3, 63-65	36.83	2.550	2.481	0.069	0.060	0.009
5H-3, 83-85	37.03	2.784	2.709	0.075	0.070	0.005
5H-3, 103-105	37.23	3.276	3.053	0.223	0.202	0.021
5H-3, 123-125	37.43	3.128	2.756	0.372	0.342	0.030
5H-3, 142-144	37.62	3.147	2.691	0.456	0.410	0.046
5H-4, 5-7	37.75	3.196	2.562	0.634	0.454	0.180
5H-4, 23-25	37.93	3.464	3.011	0.453	0.401	0.052
5H-4, 43-45	38.13	4.315	3.838	0.477	0.446	0.031
5H-4, 63-65	38.33	4.144	3.668	0.476	0.447	0.029
5H-4, 83-85	38.53	3.745	3.270	0.475	0.455	0.020
5H-4, 103-105	38.73	3.926	3.481	0.445	0.426	0.019
5H-4, 123-125	38.93	4.124	3.437	0.687	0.659	0.028
5H-4, 142-144	39.12	4.589	3.665	0.924	0.907	0.017
5H-5, 5-7	39.25	5.970	4.381	1.589	1.515	0.074
5H-5, 23-25	39.43	4.479	3.517	0.962	0.907	0.055
5H-5, 43-45	39.63	4.279	3.499	0.780	0.724	0.056
5H-5, 63-65	39.83	4.130	3.289	0.841	0.803	0.038

APPENDIX A
(continued)

120-751A Core, section, interval (cm)	Depth (mbsf)	Total dry wt bulk sample (g)	<62 μm dry wt (g)	≥62 μm dry wt (g)	≥62 μm to <250 μm dry wt (g)	≥250 μm dry wt (g)
5H-5, 83-85	40.03	4.142	3.592	0.550	0.522	0.028
5H-5, 103-105	40.23	5.645	4.007	1.638	1.605	0.033
5H-5, 123-125	40.43	8.656	5.926	2.730	2.681	0.049
5H-5, 142-144	40.62	8.965	5.867	3.098	3.046	0.052
5H-6, 5-7	40.75	5.046	3.292	1.754	1.728	0.026
5H-6, 23-25	40.93	9.908	6.639	3.269	3.204	0.065
5H-6, 43-45	41.13	8.510	5.949	2.561	2.517	0.044
5H-6, 63-65	41.33	8.786	6.188	2.598	2.552	0.046
6H-1, 5-7	42.75	6.811	5.143	1.668	1.626	0.042
6H-1, 43-45	43.13	6.881	6.237	0.644	0.632	0.012
6H-1, 63-65	43.33	8.155	7.895	0.260	0.252	0.008
6H-1, 83-85	43.53	6.484	6.337	0.147	0.141	0.006
6H-1, 103-105	43.73	6.245	6.073	0.172	0.161	0.011
6H-1, 123-125	43.93	6.712	6.546	0.166	0.158	0.008
6H-1, 142-144	44.12	6.561	6.412	0.149	0.143	0.006
6H-2, 5-7	44.25	5.251	5.109	0.142	0.138	0.004
6H-2, 23-25	44.43	5.306	5.188	0.118	0.114	0.004
6H-2, 43-45	44.63	5.655	5.481	0.174	0.170	0.004
6H-2, 63-65	44.83	5.565	5.393	0.172	0.167	0.005
6H-2, 83-85	45.03	4.270	4.129	0.141	0.138	0.003
6H-2, 103-105	45.23	6.800	6.596	0.204	0.199	0.005
6H-2, 123-125	45.43	0.786	0.778	0.008	0.007	0.001
6H-2, 142-144	45.62	6.351	6.221	0.130	0.125	0.005
6H-3, 5-7	45.75	5.405	5.237	0.168	0.164	0.004
6H-3, 23-25	45.93	5.328	5.207	0.121	0.117	0.004
6H-3, 43-45	46.13	5.360	5.247	0.113	0.110	0.003
6H-3, 63-65	46.33	5.154	5.020	0.134	0.130	0.004
6H-3, 83-85	46.53	5.791	5.599	0.192	0.183	0.009
6H-3, 103-105	46.73	5.890	5.661	0.229	0.221	0.008
6H-3, 123-125	46.93	6.151	5.614	0.537	0.509	0.028

APPENDIX A
(continued)

120-751A Core, section, interval (cm)	Depth (mbsf)	Total dry wt bulk sample (g)	<62 μm dry wt (g)	≥62 μm dry wt (g)	≥62 μm to <250 μm dry wt (g)	≥250 μm dry wt (g)
6H-3, 142-144	47.12	8.073	6.837	1.236	1.102	0.134
6H-4, 5-7	47.25	6.231	5.205	1.026	1.026	0.172
6H-4, 23-25	47.43	9.517	8.080	1.437	1.227	0.210
6H-4, 43-45	47.63	7.655	6.577	1.078	0.927	0.151
6H-4, 63-65	47.83	7.502	6.973	0.529	0.472	0.057
6H-4, 83-85	48.03	5.713	5.526	0.187	0.171	0.016
6H-4, 103-105	48.23	4.697	4.463	0.234	0.209	0.025
6H-4, 123-125	48.43	5.903	5.629	0.274	0.243	0.031
6H-5, 5-7	48.75	6.439	6.042	0.397	0.364	0.033
6H-5, 23-25	48.93	9.282	8.905	0.377	0.319	0.058
6H-5, 43-45	49.13	8.248	7.829	0.419	0.363	0.056
6H-5, 63-65	49.33	5.679	5.369	0.310	0.286	0.024
6H-5, 83-85	49.53	7.265	6.913	0.352	0.324	0.028
6H-5, 103-105	49.73	6.882	6.556	0.326	0.298	0.028
6H-5, 123-125	49.93	8.465	8.004	0.461	0.428	0.033
6H-5, 142-144	50.12	7.878	7.555	0.323	0.296	0.027
6H-6, 5-7	50.25	7.561	7.146	0.415	0.396	0.019
6H-6, 23-25	50.43	8.935	8.478	0.457	0.427	0.030
6H-6, 43-45	50.63	6.446	6.248	0.198	0.182	0.016
6H-6, 63-65	50.83	5.757	5.593	0.164	0.155	0.009
6H-6, 83-85	51.03	7.131	6.965	0.166	0.155	0.011
6H-6, 103-105	51.23	7.874	7.746	0.128	0.117	0.011
6H-6, 123-125	51.43	6.485	6.248	0.237	0.219	0.018
6H-6, 142-144	51.62	7.248	7.090	0.158	0.149	0.009
6H-7, 5-7	51.75	6.540	6.339	0.201	0.194	0.007
6H-7, 23-25	51.93	6.671	6.523	0.148	0.141	0.007
6H-7, 43-45	52.13	6.651	6.514	0.137	0.131	0.006
7H-1, 63-65	52.83	5.081	4.930	0.151	0.151	0.000
7H-1, 83-85	53.03	5.708	4.997	0.711	0.697	0.014
7H-1, 103-105	53.23	4.734	4.553	0.181	0.176	0.005

APPENDIX A
(continued)

120-751A Core, section, interval (cm)	Depth (mbsf)	Total dry wt bulk sample (g)	<62 μm dry wt (g)	≥62 μm dry wt (g)	≥62 μm to <250 μm dry wt (g)	≥250 μm dry wt (g)
7H-1, 123-125	53.43	8.407	8.213	0.194	0.167	0.027
7H-1, 142-144	53.62	5.095	4.963	0.132	0.116	0.016
7H-2, 5-7	53.75	7.661	7.466	0.195	0.192	0.003
7H-2, 23-25	53.93	7.416	7.339	0.077	0.071	0.006
7H-2, 43-45	54.13	6.636	6.550	0.086	0.081	0.005
7H-2, 63-65	54.33	7.723	7.613	0.110	0.099	0.011
7H-2, 83-85	54.53	6.398	6.343	0.055	0.051	0.004
7H-2, 103-105	54.73	6.119	6.052	0.067	0.063	0.004
7H-2, 123-125	54.93	6.684	6.611	0.073	0.068	0.005
7H-2, 142-144	55.12	9.818	9.729	0.089	0.083	0.006
7H-3, 5-7	55.25	6.512	6.417	0.095	0.092	0.003
7H-3, 23-25	55.43	7.200	7.118	0.082	0.080	0.002
7H-3, 43-45	55.63	8.384	8.304	0.080	0.075	0.005
7H-3, 63-65	55.83	8.393	8.311	0.082	0.077	0.005
7H-3, 83-85	56.03	6.983	6.929	0.054	0.051	0.003
7H-3, 103-105	56.23	8.085	8.028	0.057	0.054	0.003
7H-3, 123-125	56.43	9.338	9.279	0.059	0.056	0.003
7H-3, 142-144	56.62	11.864	11.770	0.094	0.087	0.007
7H-4, 5-7	56.75	5.504	5.439	0.065	0.062	0.003
7H-4, 23-25	56.93	6.552	6.505	0.047	0.044	0.003
7H-4, 43-45	57.13	6.240	6.195	0.045	0.042	0.003
7H-4, 63-65	57.33	7.114	7.057	0.057	0.053	0.004
7H-4, 83-85	57.53	6.941	6.884	0.057	0.054	0.003
7H-4, 103-105	57.73	7.135	7.087	0.048	0.045	0.003
7H-4, 123-125	57.93	7.300	7.240	0.060	0.056	0.004
7H-4, 142-144	58.12	10.027	9.960	0.067	0.064	0.003
7H-5, 5-7	58.25	6.213	6.145	0.068	0.066	0.002
7H-5, 23-25	58.43	8.223	8.151	0.072	0.067	0.005
7H-5, 43-45	58.63	8.512	8.420	0.092	0.087	0.005
7H-5, 63-65	58.83	4.374	4.325	0.049	0.046	0.003

APPENDIX A
(continued)

120-751A Core, section, interval (cm)	Depth (mbsf)	Total dry wt bulk sample (g)	<62 μm dry wt (g)	≥62 μm dry wt (g)	≥62 μm to <250 μm dry wt (g)	≥250 μm dry wt (g)
7H-5, 83-85	59.03	7.353	7.269	0.084	0.079	0.005
7H-5, 103-105	59.23	7.345	7.276	0.069	0.065	0.004
7H-5, 123-125	59.43	8.041	8.014	0.027	0.025	0.003
7H-5, 142-144	59.62	10.538	10.498	0.040	0.038	0.002
7H-6, 5-7	59.75	5.647	5.598	0.049	0.046	0.003
7H-6, 23-25	59.93	10.298	10.233	0.065	0.061	0.004
7H-6, 43-45	60.13	9.091	9.020	0.071	0.063	0.008
7H-6, 63-65	60.33	7.353	7.300	0.053	0.048	0.005
7H-6, 83-85	60.53	7.254	7.181	0.073	0.068	0.005
7H-6, 103-105	60.73	7.857	7.772	0.085	0.082	0.003
7H-6, 123-125	60.93	4.742	4.691	0.051	0.048	0.003
7H-7, 23-25	61.43	9.330	8.396	0.934	0.768	0.166
7H-7, 43-45	61.63	7.433	6.971	0.462	0.391	0.071
7H-7, 63-65	61.83	9.117	8.609	0.508	0.415	0.093
8H-2, 83-85	64.03	6.072	5.900	0.172	0.149	0.023
8H-2, 103-105	64.23	7.089	6.911	0.178	0.160	0.018
8H-2, 123-125	64.43	4.392	4.266	0.126	0.115	0.011
8H-2, 142-144	64.62	5.800	5.650	0.150	0.133	0.017
8H-3, 5-7	64.75	4.409	4.185	0.224	0.202	0.022
8H-3, 23-25	64.93	5.054	4.880	0.174	0.152	0.022
8H-3, 43-45	65.13	6.763	6.440	0.323	0.285	0.038
8H-3, 63-65	65.33	5.687	5.490	0.197	0.165	0.032
8H-3, 83-85	65.53	6.613	6.296	0.317	0.258	0.059
8H-3, 103-105	65.73	6.015	5.770	0.245	0.221	0.024
8H-3, 123-125	65.93	8.159	7.890	0.269	0.220	0.049
8H-3, 142-144	66.12	7.812	7.551	0.261	0.223	0.038
8H-4, 5-7	66.25	4.073	3.898	0.175	0.165	0.010
8H-4, 23-25	66.43	6.193	5.920	0.273	0.229	0.044
8H-4, 43-45	66.63	6.212	5.912	0.300	0.280	0.020
8H-4, 63-65	66.83	5.004	4.797	0.207	0.195	0.012

APPENDIX A
(continued)

120-751A Core, section, interval (cm)	Depth (mbsf)	Total dry wt bulk sample (g)	<62 μm dry wt (g)	≥62 μm dry wt (g)	≥62 μm to <250 μm dry wt (g)	≥250 μm dry wt (g)
8H-4, 83-85	67.03	5.539	5.327	0.212	0.200	0.012
8H-4, 103-105	67.23	6.625	6.334	0.291	0.274	0.017
8H-4, 123-125	67.43	5.520	5.315	0.205	0.196	0.009
8H-4, 142-144	67.62	3.122	3.027	0.095	0.086	0.009
8H-5, 5-7	67.75	5.335	4.971	0.364	0.354	0.010
8H-5, 23-25	67.93	6.922	6.554	0.368	0.343	0.025
8H-5, 43-45	68.13	5.252	5.051	0.201	0.184	0.017
8H-5, 63-65	68.33	5.898	5.632	0.266	0.245	0.021
8H-5, 83-85	68.53	6.044	5.865	0.179	0.164	0.015
8H-5, 103-105	68.73	4.311	4.176	0.135	0.131	0.004
8H-5, 123-125	68.93	5.832	5.674	0.158	0.152	0.006
8H-5, 142-144	69.12	5.222	5.097	0.125	0.120	0.005
8H-6, 5-7	69.25	3.864	3.744	0.120	0.116	0.004
8H-6, 23-25	69.43	5.935	5.761	0.174	0.165	0.009
8H-6, 43-45	69.63	4.792	4.655	0.137	0.131	0.006
9H-1, 5-7	71.25	5.164	5.114	0.050	0.045	0.005
9H-1, 23-25	71.43	6.881	6.841	0.040	0.036	0.004
9H-1, 43-45	71.63	7.174	7.120	0.054	0.052	0.002
9H-1, 63-65	71.83	6.848	6.789	0.059	0.056	0.003
9H-1, 83-85	72.03	7.239	7.158	0.081	0.078	0.003
9H-1, 103-105	72.23	6.521	6.438	0.083	0.080	0.003
9H-1, 123-125	72.43	7.576	7.470	0.106	0.102	0.004
9H-1, 142-144	72.62	7.569	7.494	0.075	0.070	0.005
9H-2, 5-7	72.75	5.617	5.516	0.101	0.099	0.002
9H-2, 23-25	72.93	6.310	6.195	0.115	0.110	0.005
9H-2, 43-45	73.13	6.560	6.460	0.100	0.095	0.005
9H-2, 63-65	73.33	6.004	5.893	0.111	0.108	0.003
9H-2, 83-85	73.53	5.848	5.751	0.097	0.093	0.004
9H-2, 103-105	73.73	5.887	5.811	0.076	0.073	0.003
9H-2, 123-125	73.93	5.686	5.622	0.064	0.059	0.005

APPENDIX A
(continued)

120-751A Core, section, interval (cm)	Depth (mbsf)	Total dry wt bulk sample (g)	<62 μm dry wt (g)	≥62 μm dry wt (g)	≥62 μm to <250 μm dry wt (g)	≥250 μm dry wt (g)
9H-2, 142-144	74.12	6.216	6.112	0.104	0.094	0.010
9H-3, 5-7	74.25	5.059	4.991	0.068	0.063	0.005
9H-3, 23-25	74.43	6.598	6.515	0.083	0.077	0.006
9H-3, 43-45	74.63	6.789	6.673	0.116	0.103	0.013
9H-3, 63-65	74.83	6.074	5.997	0.077	0.069	0.008
9H-3, 83-85	75.03	5.217	5.122	0.095	0.091	0.004
9H-3, 103-105	75.23	6.846	6.732	0.114	0.110	0.004
9H-3, 123-125	75.43	5.879	5.675	0.204	0.182	0.022
9H-3, 142-144	75.62	6.264	6.188	0.076	0.071	0.005
9H-4, 5-7	75.75	4.371	4.234	0.137	0.135	0.002
9H-4, 23-25	75.93	6.027	5.934	0.093	0.088	0.005
9H-4, 43-45	76.13	6.036	5.970	0.066	0.062	0.004
9H-4, 63-65	76.33	6.599	6.539	0.060	0.057	0.003
9H-4, 83-85	76.53	6.528	6.454	0.074	0.071	0.003
9H-4, 103-105	76.73	8.165	8.030	0.135	0.125	0.010
9H-5, 5-7	77.25	5.576	5.443	0.133	0.131	0.002
9H-5, 23-25	77.43	7.881	7.686	0.195	0.173	0.022
9H-5, 32-36	77.52	10.301	10.082	0.219	0.193	0.026
9H-5, 43-45	77.63	9.032	8.911	0.121	0.102	0.019
9H-5, 63-65	77.83	6.803	6.724	0.079	0.075	0.004
9H-5, 103-105	78.23	9.668	9.449	0.219	0.198	0.021
9H-5, 123-125	78.43	6.827	6.735	0.092	0.087	0.005
9H-6, 5-7	78.75	6.328	6.202	0.126	0.114	0.012
9H-6, 23-25	78.93	6.256	6.191	0.065	0.061	0.004
9H-6, 32-36	79.02	10.012	9.886	0.126	0.117	0.009
9H-6, 43-45	79.13	7.928	7.857	0.071	0.067	0.004
9H-6, 63-65	79.33	5.834	5.781	0.053	0.050	0.003
9H-6, 83-85	79.53	4.771	4.735	0.036	0.033	0.003
9H-6, 103-105	79.73	6.124	6.072	0.052	0.050	0.002
9H-6, 123-125	79.93	6.171	6.119	0.052	0.049	0.003

APPENDIX A
(continued)

120-751A Core, section, interval (cm)	Depth (mbsf)	Total dry wt bulk sample (g)	<62 μm dry wt (g)	≥62 μm dry wt (g)	≥62 μm to <250 μm dry wt (g)	≥250 μm dry wt (g)
9H-6, 142-144	80.12	6.134	6.086	0.048	0.045	0.003
9H-7, 5-7	80.25	6.739	6.673	0.066	0.063	0.003
9H-7, 23-25	80.43	6.751	6.696	0.055	0.053	0.002
9H-7, 43-45	80.63	5.821	5.770	0.051	0.051	0.002
9H-7, 63-65	80.83	4.407	4.370	0.037	0.037	0.002
10H-1, 5-7	80.75	4.960	4.912	0.048	0.045	0.002
10H-1, 23-25	80.93	3.736	3.702	0.034	0.034	0.002
10H-1, 43-45	81.13	5.193	5.193	0.042	0.039	0.003
10H-1, 63-65	81.33	6.292	6.242	0.050	0.050	0.003
10H-1, 83-85	81.53	5.826	5.792	0.034	0.034	0.002
10H-1, 103-105	81.73	6.450	6.402	0.048	0.048	0.003
10H-1, 142-144	82.12	5.374	5.321	0.053	0.053	0.003
10H-2, 5-7	82.25	5.612	5.534	0.078	0.075	0.003
10H-2, 23-25	82.43	6.103	6.047	0.056	0.056	0.004
10H-2, 43-45	82.63	5.770	5.713	0.057	0.057	0.002
10H-2, 63-65	82.83	5.876	5.842	0.034	0.034	0.001
10H-2, 83-85	83.03	6.124	6.077	0.047	0.047	0.001
10H-2, 103-105	83.23	6.356	6.323	0.033	0.033	0.002
10H-2, 123-125	83.43	5.340	5.303	0.037	0.037	0.002
10H-2, 142-144	83.62	4.995	4.967	0.028	0.028	0.001
10H-3, 5-7	83.75	6.361	6.306	0.055	0.053	0.002
10H-3, 23-25	83.93	5.597	5.565	0.032	0.032	0.001
10H-3, 43-45	84.13	6.439	6.407	0.032	0.032	0.001
10H-3, 63-65	84.33	7.157	7.117	0.040	0.040	0.002
10H-3, 83-85	84.53	6.319	6.292	0.027	0.027	0.001
10H-3, 103-105	84.73	5.259	5.230	0.029	0.029	0.001
10H-3, 123-125	84.93	6.079	6.044	0.035	0.035	0.001
10H-3, 142-144	85.12	5.702	5.670	0.032	0.032	0.001
10H-4, 5-7	85.25	5.909	5.863	0.046	0.046	0.002
10H-4, 23-25	85.43	6.125	6.076	0.049	0.049	0.003

APPENDIX A
(continued)

120-751A Core, section, interval (cm)	Depth (mbsf)	Total dry wt bulk sample (g)	<62 μm dry wt (g)	≥62 μm dry wt (g)	≥62 μm to <250 μm dry wt (g)	≥250 μm dry wt (g)
10-4, 43-45	85.63	5.877	5.800	0.077	0.077	0.002
10-4, 63-65	85.83	5.785	5.743	0.042	0.042	0.002
10-4, 83-85	86.03	5.696	5.635	0.061	0.061	0.002
10-4, 103-105	86.23	4.994	4.956	0.038	0.038	0.001
10-4, 123-125	86.43	5.398	5.361	0.037	0.037	0.001
10-5, 5-7	86.75	5.561	5.439	0.122	0.122	0.002
10-5, 23-25	86.93	5.945	5.886	0.059	0.059	0.002
10-5, 43-45	87.13	6.244	6.185	0.059	0.059	0.003
10-5, 63-65	87.33	6.042	5.982	0.060	0.060	0.002
10-5, 83-85	87.53	5.655	5.572	0.083	0.083	0.005
10-5, 103-105	87.73	6.418	6.331	0.087	0.087	0.003
10-5, 123-125	87.93	4.669	4.598	0.071	0.071	0.003
10-5, 142-144	88.12	4.760	4.700	0.060	0.060	0.002
10-6, 5-7	88.25	7.013	6.882	0.131	0.131	0.001
10-6, 23-25	88.43	5.337	5.283	0.054	0.054	0.002
10-6, 43-45	88.63	6.984	6.916	0.068	0.068	0.003
10-6, 63-65	88.83	6.025	5.959	0.066	0.066	0.003
10-6, 83-85	89.03	6.724	6.675	0.049	0.049	0.003
10-6, 103-105	89.23	4.957	4.914	0.043	0.043	0.003
10-6, 123-125	89.43	4.973	4.909	0.064	0.064	0.002
10-6, 142-144	89.62	4.366	4.264	0.102	0.100	0.002
10-7, 5-7	89.75	5.908	5.768	0.140	0.140	0.002
10-7, 23-25	89.93	5.756	5.686	0.070	0.070	0.005
10-7, 43-45	90.13	5.940	5.888	0.052	0.052	0.001
10-7, 63-65	90.33	5.636	5.589	0.047	0.047	0.002

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Appendix B

Appendix B. Statistical grouping of mean dry-bulk density values, Site 751.

Group	120-751A Core, section, interval (cm)	Depth interval of bulk density samples (mbsf)	Depth interval used in IRD study (mbsf)	Dry-bulk density (g/cm^3) No.	Max.	Min.	Mean	STD	% RSTD
I	1H-1, 30 to 3H-1, 20	0.30-14.40	0.00-14.65	14	0.76	0.20	0.43	0.157	36
II	3H-1, 70 to 4H-3, 67	14.90-27.37	14.65-27.60	16	0.43	0.26	0.35	0.046	13
III	4H-3, 113 to 5H-3, 70	27.83-36.90	27.60-37.13	18	0.51	0.22	0.37	0.063	17
IV	5H-3, 115 to 5H-5, 70	37.35-39.90	37.13-40.13	6	0.55	0.36	0.45	0.067	15
V	5H-5, 115 to 7H-7, 30	40.35-61.50	40.13-63.25	35	1.06	0.77	0.90	0.076	8
VI	8H-3, 30 to 9H-3, 70	65.00-74.90	63.25-75.13	18	0.76	0.59	0.69	0.050	7
VII	9H-3, 115 to 10H-7, 30	75.35-90.00	75.13-90.00	29	1.04	0.80	0.90	0.065	7

Notes: Mean dry-bulk density values and associated depth intervals were calculated for each group used in the computation of apparent IRD accumulation rates for Site 751. The dry-bulk density values used in these calculations are from Schlich, Wise, et al. (1989). IRD = ice-rafted debris. No. = number of samples in group. Max. = maximum dry-bulk density value in group. Min. = minimum dry-bulk dencity value in group. STD = standard deviation, and %RSTD = percent relative standard deviation.

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Appendix C

Appendix C. Neogene IRD and total IRD concentrations, Site 751.

120-751A Core, section, interval (cm)	Depth (mbsf)	Number of grains				Total IRD grains	Dry wt bulk sample (g)	IRD abundance (grains/g)
		Quartz	Feldspar	Accessory minerals	Rock fragments			
1H-1, 23-25	0.23	0	0	0	0	0	1.484	0
1H-1, 43-45	0.43	8	2	0	0	10	1.185	8
1H-1, 63-65	0.63	41	2	3	1	47	1.131	42
1H-1, 79-81	0.79	5	1	0	0	6	1.050	6
1H-1, 103-105	1.03	12	3	1	1	17	1.113	15
1H-1, 123-125	1.23	17	3	2	0	22	1.567	14
1H-1, 142-144	1.42	11	3	0	1	15	1.468	10
1H-2, 10-11	1.60	86	13	7	4	110	2.004	55
1H-2, 23-25	1.73	110	9	6	3	128	1.173	109
1H-2, 43-45	1.93	143	7	4	10	164	1.341	122
1H-2, 60-62	2.10	132	5	8	5	150	1.470	102
1H-2, 79-81	2.29	862	59	52	25	998	1.416	705
1H-2, 97-99	2.47	257	23	16	14	310	2.016	154
1H-2, 120-122	2.70	84	4	5	1	94	1.252	75
1H-2, 140-142	2.90	384	27	26	16	453	1.691	268
1H-3, 5-7	3.05	120	6	7	3	136	4.159	33
1H-3, 43-45	3.43	16	1	1	1	19	1.780	11
1H-3, 65-67	3.65	132	6	6	13	157	2.557	61
1H-3, 97-99	3.97	186	13	10	18	227	3.165	72
1H-3, 137-139	4.37	27	3	0	2	32	2.000	16
2H-1, 63-65	5.33	75	2	5	1	83	1.667	50
2H-1, 83-85	5.53	99	6	4		109	2.883	38
2H-1, 103-105	5.73	159	8	11	4	182	3.948	46
2H-1, 123-125	5.93	179	12	10	3	204	4.471	46
2H-1, 142-144	6.12	209	10	12	5	236	5.362	44
2H-2, 5-7	6.25	424	23	21	16	484	4.439	109
2H-2, 23-25	6.43	226	13	9	4	252	3.942	64
2H-2, 32-36	6.52	108	4	4	3	119	4.021	30
2H-2, 43-45	6.63	17	2	1	1	21	2.050	10

Notes: Data are for ice-rafted debris (IRD) of ≥ 250-µm to < 2 mm size fraction and are normalized to equal grains/g total dry weight of bulk sample. Accessory minerals included some, if not all, of the following minerals: garnet, ilmenite, and hornblende.

APPENDIX C
(continued)

120-751A Core, section, interval (cm)	Depth (mbsf)	Number of grains				Total IRD grains	Dry wt bulk sample (g)	IRD abundance (grains/g)
		Quartz	Feldspar	Accessory minerals	Rock fragments			
2H-2, 63-65	6.83	120	8	7	7	142	3.095	46
2H-2, 83-85	7.03	476	33	29	24	562	4.591	122
2H-2, 103-105	7.23	733	33	20	35	821	3.596	228
2H-2, 123-125	7.43	225	8	8	8	249	2.815	88
2H-2, 142-144	7.62	75	4	5	3	87	1.874	46
2H-3, 5-7	7.75	119	5	6	4	134	3.071	44
2H-3, 23-25	7.93	29	3	2	1	35	0.892	39
2H-3, 32-36	8.02	101	5	1	2	109	2.059	53
2H-3, 43-45	8.13	44	2	0	2	48	1.378	35
2H-3, 63-65	8.33	26	0	0	0	26	1.389	19
2H-3, 83-85	8.53	444	12	17	17	490	3.748	131
2H-3, 103-105	8.73	105	6	4	1	116	1.751	66
2H-3, 123-125	8.93	66	5	2	1	74	1.870	40
2H-3, 142-144	9.12	29	1	0	0	30	1.277	23
2H-3, 5-7	9.25	14	2	0	0	16	2.441	7
2H-4, 23-25	9.43	29	2	2	0	33	1.628	20
2H-4, 43-45	9.63	6	0	1	0	7	1.471	5
2H-4, 63-65	9.83	8	0	0	0	8	1.409	6
3H-1, 43-45	14.63	20	0	3	3	26	3.178	8
3H-1, 63-65	14.83	10	0	0	0	10	2.856	4
3H-1, 83-85	15.03	17	1	0	0	18	2.815	6
3H-1, 103-105	15.23	5	0	1	0	6	2.136	3
3H-1, 123-125	15.43	4	0	2	0	6	1.495	4
3H-1, 142-144	15.62	3	0	0	0	3	2.176	1
3H-2, 23-25	15.93	6	0	2	0	8	2.721	3
3H-2, 43-45	16.13	7	2	2	0	11	2.709	4
3H-2, 63-65	16.33	14	1	0	0	15	2.612	6
3H-2, 83-85	16.53	9	1	0	0	10	2.487	4
3H-2, 103-105	16.73	10	1	0	0	11	2.680	4
3H-2, 123-125	16.93	4	0	0	0	4	3.507	1

APPENDIX C
(continued)

120-751A Core, section, interval (cm)	Depth (mbsf)	Number of grains				Total IRD grains	Dry wt bulk sample (g)	IRD abundance (grains/g)
		Quartz	Feldspar	Accessory minerals	Rock fragments			
3H-3, 23-25	17.43	0	0	0	0	0	2.190	0
3H-3, 43-45	17.63	8	2	5	2	17	4.220	4
3H-3, 63-65	17.83	1	2	0	0	3	2.846	1
3H-3, 83-85	18.03	8	0	0	0	8	2.905	3
3H-3, 103-105	18.23	2	0	0	0	2	3.104	1
3H-3, 123-125	18.43	10	1	1	1	13	3.640	4
3H-3, 142-144	18.62	11	2	0	0	13	3.463	4
3H-4, 23-25	18.93	13	0	0	1	14	3.422	4
3H-4, 43-45	19.13	12	0	1	0	13	3.448	4
3H-4, 63-65	19.33	13	0	1	0	14	3.906	4
3H-4, 83-85	19.53	15	1	1	1	18	3.362	5
3H-4, 103-105	19.73	10	1	1	0	12	3.039	4
3H-4, 123-125	19.93	20	0	1	1	22	3.336	7
3H-5, 23-25	20.43	6	0	0	0	6	3.598	2
3H-5, 43-45	20.63	5	0	1	0	6	3.150	2
3H-5, 63-65	20.83	8	1	0	0	9	3.665	2
3H-5, 83-85	21.03	9	1	1	0	11	3.156	3
3H-5, 103-105	21.23	36	4	1	0	41	3.104	13
3H-5, 123-125	21.43	2	1	0	0	3	3.046	1
3H-5, 142-144	21.62	12	0	0	0	12	3.128	4
4H-2, 5-7	25.25	9	0	1	0	10	3.761	3
4H-2, 83-85	26.03	124	4	1	2	131	3.365	39
4H-2, 103-105	26.23	14	0	1	0	15	2.152	7
4H-2, 123-125	26.43	9	3	0	0	12	2.265	5
4H-2, 142-144	26.62	8	1	0	0	9	1.801	5
4H-3, 5-7	26.75	28	4	0	2	34	3.244	10
4H-3, 23-25	26.93	17	1	0	0	18	1.868	10
4H-3, 43-45	27.13	11	1	1	1	14	1.304	11
4H-3, 63-65	27.33	3	0	0	0	3	1.689	2
4H-3, 83-85	27.53	31	1	2	0	34	2.741	12

APPENDIX C
(continued)

120-751A Core, section, interval (cm)	Depth (mbsf)	Number of grains				Total IRD grains	Dry wt bulk sample (g)	IRD abundance (grains/g)
		Quartz	Feldspar	Accessory minerals	Rock fragments			
4H-3, 103-105	27.73	280	12	9	10	311	3.441	90
4H-3, 123-125	27.93	68	1	3	2	74	2.915	25
4H-3, 142-144	28.12	17	2	0	0	19	1.676	11
4H-4, 5-7	28.25	120	8	4	3	135	2.829	48
4H-4, 23-25	28.43	25	0	0	0	25	1.912	13
4H-4, 43-45	28.63	78	4	6	0	88	3.011	29
4H-4, 63-65	28.83	30	2	0	0	32	2.707	12
4H-4, 83-85	29.03	75	1	2	2	80	3.298	24
4H-4, 103-105	29.23	226	4	3	3	236	3.381	70
4H-4, 123-125	29.43	70	3	0	2	75	3.592	21
4H-4, 142-144	29.62	84	6	6	1	97	3.371	29
4H-5, 23-25	29.93	105	1	2	0	108	3.882	28
4H-5, 43-45	30.13	140	5	4	2	151	3.007	50
4H-5, 63-65	30.33	137	3	2	2	144	3.799	38
4H-5, 83-85	30.53	167	3	2	0	172	3.466	50
4H-5, 103-105	30.73	59	3	1	1	64	2.243	29
4H-5, 123-125	30.93	91	0	1	4	96	2.646	36
4H-5, 142-144	31.12	39	3	3	1	46	2.481	19
4H-6, 5-7	31.25	88	3	2	3	96	3.675	26
4H-6, 23-25	31.43	76	2	7	3	88	3.387	26
4H-6, 63-65	31.83	29	0	0	11	40	2.160	19
4H-6, 83-85	32.03	18	1	0	1	20	3.133	6
4H-6, 103-105	32.23	76	5	3	3	87	2.929	30
4H-6, 142-144	32.62	80	2	3	5	90	2.767	33
5H-1, 5-7	32.75	134	12	5	1	152	5.061	30
5H-1, 23-25	33.43	131	8	3	4	146	3.139	47
5H-1, 43-45	33.63	240	11	14	3	268	3.568	75
5H-1, 63-65	33.83	6	1	0	1	8	1.783	4
5H-1, 83-85	34.03	34	2	0	2	38	2.233	17
5H-1, 103-105	34.23	564	17	23	10	614	3.104	198

APPENDIX C
(continued)

120-751A Core, section, interval (cm)	Depth (mbsf)	Number of grains				Total IRD grains	Dry wt bulk sample (g)	IRD abundance (grains/g)
		Quartz	Feldspar	Accessory minerals	Rock fragments			
5H-1, 123-125	34.43	67	1	6	1	75	2.332	32
5H-1, 142-144	34.62	85	0	2	6	93	2.122	44
5H-2, 5-7	34.75	408	9	15	9	441	2.914	151
5H-2, 23-25	34.93	113	4	0	3	120	2.340	51
5H-2, 43-45	35.13	89	5	5	2	101	2.506	40
5H-2, 63-65	35.33	108	2	6	0	116	2.410	48
5H-2, 83-85	35.53	331	15	16	3	365	3.728	98
5H-2, 103-105	35.73	175	7	8	3	193	3.501	55
5H-2, 123-125	35.93	184	5	7	2	198	3.999	50
5H-2, 142-144	36.12	96	2	9	0	107	3.322	32
5H-3, 5-7	36.25	69	3	1	1	74	3.401	22
5H-3, 23-25	36.43	64	4	1	0	69	3.258	21
5H-3, 43-45	36.63	43	3	2	3	51	3.204	16
5H-3, 63-65	36.83	36	2	1	1	40	2.550	16
5H-3, 83-85	37.03	19	3	1	0	23	2.784	8
5H-3, 103-105	37.23	112	5	8	4	129	3.276	39
5H-3, 123-125	37.43	150	3	7	3	163	3.128	52
5H-3, 142-144	37.62	287	15	6	3	311	3.147	99
5H-4, 5-7	37.75	230	7	5	4	246	3.196	77
5H-4, 23-25	37.93	249	7	12	4	272	3.464	79
5H-4, 43-45	38.13	154	12	6	1	173	4.315	40
5H-4, 63-65	38.33	159	3	6	3	171	4.144	41
5H-4, 83-85	38.53	70	1	4	3	78	3.745	21
5H-4, 103-105	38.73	63	2	1	1	67	3.926	17
5H-4, 123-125	38.93	122	6	7	2	137	4.124	33
5H-4, 142-144	39.12	202	13	9	4	228	4.589	50
5H-5, 5-7	39.25	426	20	14	8	468	5.970	78
5H-5, 23-25	39.43	246	10	9	4	269	4.479	60
5H-5, 43-45	39.63	250	21	15	2	288	4.279	67
5H-5, 63-65	39.83	180	12	3	1	196	4.130	47

APPENDIX C
(continued)

120-751A Core, section, interval (cm)	Depth (mbsf)	Number of grains				Total IRD grains	Dry wt bulk sample (g)	IRD abundance (grains/g)
		Quartz	Feldspar	Accessory minerals	Rock fragments			
5H-5, 83-85	40.03	149	4	4	2	159	4.142	38
5H-5, 103-105	40.23	86	5	4	1	96	5.645	17
5H-5, 123-125	40.43	148	6	5	3	162	8.656	19
5H-5, 142-144	40.62	185	5	5	2	197	8.965	22
5H-6, 5-7	40.75	61	3	5	1	70	5.046	14
5H-6, 23-25	40.93	115	3	2	1	121	9.908	12
5H-6, 43-45	41.13	77	3	4	1	85	8.510	10
5H-6, 63-65	41.33	142	5	1	1	149	8.786	17
6H-1, 5-7	42.75	103	4	3	1	111	6.811	16
6H-1, 43-45	43.13	41	2	4	2	49	6.881	7
6H-1, 63-65	43.33	41	1	1	1	44	8.155	5
6H-1, 83-85	43.53	13	0	1	0	14	6.484	2
6H-1, 103-105	43.73	16	0	0	1	17	6.245	3
6H-1, 123-125	43.93	8	0	0	0	8	6.712	1
6H-1, 142-144	44.12	4	0	0	0	4	6.561	1
6H-2, 5-7	44.25	5	0	0	0	5	5.251	1
6H-2, 23-25	44.43	3	0	0	0	3	5.306	1
6H-2, 43-45	44.63	5	0	0	0	5	5.655	1
6H-2, 63-65	44.83	8	0	0	0	8	5.565	1
6H-2, 83-85	45.03	1	0	0	2	3	4.270	1
6H-2, 103-105	45.23	0	0	0	0	0	6.800	0
6H-2, 123-125	45.43	0	0	0	0	0	0.786	0
6H-2, 142-144	45.62	0	0	0	0	0	6.351	0
6H-3, 5-7	45.75	0	0	0	0	0	5.405	0
6H-3, 23-25	45.93	0	0	0	0	0	5.328	0
6H-3, 43-45	46.13	0	0	0	0	0	5.360	0
6H-3, 63-65	46.33	0	0	0	0	0	5.154	0
6H-3, 83-85	46.53	0	0	0	0	0	5.791	0
6H-3, 103-105	46.73	1	0	0	0	1	5.890	<1

APPENDIX C
(continued)

120-751A Core, section, interval (cm)	Depth (mbsf)	Number of grains				Total IRD grains	Dry wt bulk sample (g)	IRD abundance (grains/g)
		Quartz	Feldspar	Accessory minerals	Rock fragments			
6H-3, 123-125	46.93	0	0	0	0	0	6.151	0
6H-3, 142-144	47.12	2	0	0	0	2	8.073	<1
6H-4, 5-7	47.25	2	0	0	0	2	6.231	<1
6H-4, 23-25	47.43	4	0	0	0	4	9.517	<1
6H-4, 43-45	47.63	2	0	0	0	2	7.655	<1
6H-4, 63-65	47.83	4	0	0	0	4	7.502	<1
6H-4, 83-85	48.03	0	0	0	0	0	5.713	0
6H-4, 103-105	48.23	1	0	0	0	1	4.697	<1
6H-4, 123-125	48.43	0	0	0	0	0	5.903	<1
6H-5, 5-7	48.75	1	0	0	0	1	6.439	0
6H-5, 23-25	48.93	2	0	0	0	2	9.282	<1
6H-5, 43-45	49.13	2	0	0	0	2	8.248	<1
6H-5, 63-65	49.33	2	0	0	0	2	5.679	<1
6H-5, 83-85	49.53	0	0	0	0	0	7.265	0
6H-5, 103-105	49.73	2	0	0	0	2	6.882	<1
6H-5, 123-125	49.93	0	0	0	1	1	8.465	<1
6H-5, 142-144	50.12	3	0	0	0	3	7.878	<1
6H-6, 5-7	50.25	1	0	0	0	1	7.561	<1
6H-6, 23-25	50.43	0	0	0	0	0	8.935	0
6H-6, 43-45	50.63	0	0	0	0	0	6.446	0
6H-6, 63-65	50.83	0	0	0	0	0	5.757	0
6H-6, 83-85	51.03	1	0	0	0	1	7.131	<1
6H-6, 103-105	51.23	1	0	0	0	1	7.874	<1
6H-6, 123-125	51.43	0	0	0	0	0	6.485	0
6H-6, 142-144	51.62	2	0	0	0	2	7.248	<1
6H-7, 5-7	51.75	0	0	0	0	0	6.540	0
6H-7, 23-25	51.93	0	0	0	0	0	6.671	0
6H-7, 43-45	52.13	0	0	0	0	0	6.651	0
7H-1, 63-65	52.83	1	0	0	0	1	5.081	<1
7H-1, 83-85	53.03	3	1	1	0	5	5.708	<1

APPENDIX C
(continued)

120-751A Core, section, interval (cm)	Depth (mbsf)	Number of grains				Total IRD grains	Dry wt bulk sample (g)	IRD abundance (grains/g)
		Quartz	Feldspar	Accessory minerals	Rock fragments			
7H-1, 103-105	53.23	4	0	0	0	4	4.734	<1
7H-1, 123-125	53.43	10	0	0	2	12	8.407	<1
7H-1, 142-144	53.62	2	0	0	0	2	5.095	<1
7H-2, 5-7	53.75	0	0	0	0	0	7.661	0
7H-2, 23-25	53.93	0	0	0	0	0	7.416	0
7H-2, 43-45	54.13	0	0	0	0	0	6.636	0
7H-2, 63-65	54.33	0	0	0	0	0	7.723	0
7H-2, 83-85	54.53	0	0	0	0	0	6.398	0
7H-2, 103-105	54.73	0	0	0	0	0	6.119	0
7H-2, 123-125	54.93	2	0	1	0	3	6.684	<1
7H-2, 142-144	55.12	3	0	0	0	3	9.818	<1
7H-3, 5-7	55.25	2	0	0	0	2	6.512	<1
7H-3, 23-25	55.43	0	0	0	0	0	7.200	0
7H-3, 43-45	55.63	0	0	0	0	0	8.384	0
7H-3, 63-65	55.83	0	0	0	0	0	8.393	0
7H-3, 83-85	56.03	0	0	0	0	0	6.983	0
7H-3, 103-105	56.23	0	0	0	0	0	8.085	0
7H-3, 123-125	56.43	0	0	0	0	0	9.338	0
7H-3, 142-144	56.62	0	0	0	0	0	11.864	0
7H-4, 5-7	56.75	1	0	0	0	1	5.504	<1
7H-4, 23-25	56.93	0	0	0	0	0	6.552	0
7H-4, 43-45	57.13	0	0	0	0	0	6.240	0
7H-4, 63-65	57.33	0	0	0	0	0	7.114	0
7H-4, 83-85	57.53	0	0	0	0	0	6.941	0
7H-4, 103-105	57.73	0	0	0	0	0	7.135	0
7H-4, 123-125	57.93	0	0	0	0	0	7.300	0
7H-4, 142-144	58.12	0	0	0	0	0	10.027	0
7H-5, 5-7	58.25	1	0	0	0	1	6.213	<1
7H-5, 23-25	58.43	0	0	0	0	0	8.223	0
7H-5, 43-45	58.63	0	0	0	0	0	8.512	0

APPENDIX C
(continued)

120-751A Core, section, interval (cm)	Depth (mbsf)	Number of grains				Total IRD grains	Dry wt bulk sample (g)	IRD abundance (grains/g)
		Quartz	Feldspar	Accessory minerals	Rock fragments			
7H-5, 63-65	58.83	0	0	0	0	0	4.374	0
7H-5, 83-85	59.03	0	0	0	0	0	7.353	0
7H-5, 103-105	59.23	0	0	0	0	0	7.345	0
7H-5, 123-125	59.43	0	0	0	0	0	8.041	0
7H-5, 142-144	59.62	0	0	0	0	0	10.538	0
7H-6, 5-7	59.75	0	0	0	0	0	5.647	0
7H-6, 23-25	59.93	0	0	0	0	0	10.298	0
7H-6, 43-45	60.13	0	0	0	0	0	9.091	0
7H-6, 63-65	60.33	0	0	0	0	0	7.353	0
7H-6, 83-85	60.53	0	0	0	0	0	7.254	0
7H-6, 103-105	60.73	0	0	0	0	0	7.857	0
7H-6, 123-125	60.93	0	0	0	0	0	4.742	0
7H-7, 23-25	61.43	0	0	0	0	0	9.330	0
7H-7, 43-45	61.63	2	0	0	0	2	7.433	<1
7H-7, 63-65	61.83	1	0	0	0	1	9.117	<1
8H-2, 83-85	64.03	0	0	0	0	0	6.072	0
8H-2, 103-105	64.23	1	0	0	0	1	7.089	<1
8H-2, 123-125	64.43	0	0	0	0	0	4.392	0
8H-2, 142-144	64.62	0	0	0	0	0	5.800	0
8H-3, 5-7	64.75	0	0	0	0	0	4.409	0
8H-3, 23-25	64.93	0	0	0	0	0	5.054	0
8H-3, 43-45	65.13	0	0	0	0	0	6.763	0
8H-3, 63-65	65.33	1	0	0	0	1	5.687	<1
8H-3, 83-85	65.53	0	0	0	0	0	6.613	0
8H-3, 103-105	65.73	0	0	0	0	0	6.015	0
8H-3, 123-125	65.93	1	0	0	0	1	8.159	<1
8H-3, 142-144	66.12	0	0	0	0	0	7.812	0
8H-4, 5-7	66.25	0	0	0	0	0	4.073	0
8H-4, 23-25	66.43	0	0	0	0	0	6.193	0
8H-4, 43-45	66.63	0	0	0	0	0	6.212	0

APPENDIX C
(continued)

120-751A Core, section, interval (cm)	Depth (mbsf)	Number of grains				Total IRD grains	Dry wt bulk sample (g)	IRD abundance (grains/g)
		Quartz	Feldspar	Accessory minerals	Rock fragments			
8H-4, 63-65	66.83	0	0	0	0	0	5.004	0
8H-4, 83-85	67.03	0	0	0	0	0	5.539	0
8H-4, 103-105	67.23	0	0	0	0	0	6.625	0
8H-4, 123-125	67.43	0	0	0	0	0	5.520	0
8H-4, 142-144	67.62	0	0	0	0	0	3.122	0
8H-5, 5-7	67.75	0	0	0	0	0	5.335	0
8H-5, 23-25	67.93	0	0	0	0	0	6.922	0
8H-5, 43-45	68.13	0	0	0	0	0	5.252	0
8H-5, 63-65	68.33	0	0	0	0	0	5.898	0
8H-5, 83-85	68.53	0	0	0	0	0	6.044	0
8H-5, 103-105	68.73	6	0	2	0	8	4.311	2
8H-5, 123-125	68.93	0	0	0	0	0	5.832	0
8H-5, 142-144	69.12	0	0	0	0	0	5.222	0
8H-6, 5-7	69.25	0	0	0	0	0	3.864	0
8H-6, 23-25	69.43	0	0	0	0	0	5.935	0
8H-6, 43-45	69.63	0	0	0	0	0	4.792	0
9H-1, 5-7	71.25	0	0	0	0	0	5.164	0
9H-1, 23-25	71.43	0	0	0	0	0	6.881	0
9H-1, 43-45	71.63	0	0	0	0	0	7.174	0
9H-1, 63-65	71.83	0	0	0	0	0	6.848	0
9H-1, 83-85	72.03	0	0	0	0	0	7.239	0
9H-1, 103-105	72.23	0	0	0	0	0	6.521	0
9H-1, 123-125	72.43	0	0	0	0	0	7.576	0
9H-1, 142-144	72.62	0	0	0	0	0	7.569	0
9H-2, 5-7	72.75	0	0	0	0	0	5.617	0
9H-2, 23-25	72.93	0	0	0	0	0	6.310	0
9H-2, 43-45	73.13	0	0	0	0	0	6.560	0
9H-2, 63-65	73.33	0	0	0	0	0	6.004	0
9H-2, 83-85	73.53	0	0	0	0	0	5.848	0
9H-2, 103-105	73.73	0	0	0	0	0	5.887	0

APPENDIX C
(continued)

120-751A Core, section, interval (cm)	Depth (mbsf)	Number of grains				Total IRD grains	Dry wt bulk sample (g)	IRD abundance (grains/g)
		Quartz	Feldspar	Accessory minerals	Rock fragments			
9H-2, 123-125	73.93	0	0	0	0	0	5.686	0
9H-2, 142-144	74.12	0	0	0	0	0	6.216	0
9H-3, 5-7	74.25	0	0	0	0	0	5.059	0
9H-3, 23-25	74.43	0	0	0	0	0	6.598	0
9H-3, 43-45	74.63	0	0	0	0	0	6.789	0
9H-3, 63-65	74.83	0	0	0	0	0	6.074	0
9H-3, 83-85	75.03	0	0	0	0	0	5.217	0
9H-3, 103-105	75.23	0	0	0	0	0	6.846	0
9H-3, 123-125	75.43	0	0	0	0	0	5.879	0
9H-3, 142-144	75.62	0	0	0	0	0	6.264	0
9H-4, 5-7	75.75	0	0	0	0	0	4.371	0
9H-4, 23-25	75.93	0	0	0	0	0	6.027	0
9H-4, 43-45	76.13	0	0	0	0	0	6.036	0
9H-4, 63-65	76.33	0	0	0	0	0	6.599	0
9H-4, 83-85	76.53	0	0	0	0	0	6.528	0
9H-4, 103-105	76.73	0	0	0	0	0	8.165	0
9H-5, 5-7	77.25	0	0	0	0	0	5.576	0
9H-4, 23-25	77.43	0	0	0	0	0	7.881	0
9H-5, 32-36	77.52	0	0	0	0	0	10.301	0
9H-5, 43-45	77.63	0	0	0	0	0	9.032	0
9H-5, 63-65	77.83	0	0	0	0	0	6.803	0
9H-5, 103-105	78.23	0	0	0	0	0	9.668	0
9H-5, 123-125	78.43	0	0	0	0	0	6.827	0
9H-6, 5-7	78.75	0	0	0	0	0	6.328	0
9H-6, 23-25	78.93	0	0	0	0	0	6.256	0
9H-6, 32-36	79.02	0	0	0	0	0	10.012	0
9H-6, 43-45	79.13	0	0	0	0	0	7.928	0
9H-6, 63-65	79.33	0	0	0	0	0	5.834	0
9H-6, 83-85	79.53	0	0	0	0	0	4.771	0
9H-6, 103-105	79.73	0	0	0	0	0	6.124	0

APPENDIX C
(continued)

120-751A Core, section, interval (cm)	Depth (mbsf)	Number of grains				Total IRD grains	Dry wt bulk sample (g)	IRD abundance (grains/g)
		Quartz	Feldspar	Accessory minerals	Rock fragments			
9H-6, 123-125	79.93	0	0	0	0	0	6.171	0
9H-6, 142-144	80.12	0	0	0	0	0	6.134	0
9H-7, 5-7	80.25	0	0	0	0	0	6.739	0
9H-7, 23-25	80.43	0	0	0	0	0	6.751	0
9H-7, 43-45	80.63	0	0	0	0	0	5.821	0
9H-7, 63-65	80.83	0	0	0	0	0	4.407	0
10H-1, 5-7	80.75	0	0	0	0	0	4.960	0
10H-1, 23-25	80.93	0	0	0	0	0	3.736	0
10H-1, 43-45	81.13	0	0	0	0	0	5.193	0
10H-1, 63-65	81.33	0	0	0	0	0	6.292	0
10H-1, 83-85	81.53	0	0	0	0	0	5.826	0
10H-1, 103-105	81.73	0	0	0	0	0	6.450	0
10H-1, 142-144	82.12	0	0	0	0	0	5.374	0
10H-2, 5-7	82.25	0	0	0	0	0	5.612	0
10H-2, 23-25	82.43	0	0	0	0	0	6.103	0
10H-2, 43-45	82.63	0	0	0	0	0	5.770	0
10H-2, 63-65	82.83	0	0	0	0	0	5.876	0
10H-2, 83-85	83.03	0	0	0	0	0	6.124	0
10H-2, 103-105	83.23	0	0	0	0	0	6.356	0
10H-2, 123-125	83.43	0	0	0	0	0	5.340	0
10H-2, 142-144	83.62	0	0	0	0	0	4.995	0
10H-3, 5-7	83.75	0	0	0	0	0	6.361	0
10H-3, 23-25	83.93	0	0	0	0	0	5.597	0
10H-3, 43-45	84.13	0	0	0	0	0	6.439	0
10H-3, 63-65	84.33	0	0	0	0	0	7.157	0
10H-3, 83-85	84.53	0	0	0	0	0	6.319	0
10H-3, 103-105	84.73	0	0	0	0	0	5.259	0
10H-3, 123-125	84.93	0	0	0	0	0	6.079	0
10H-3, 142-144	85.12	0	0	0	0	0	5.702	0
10H-4, 5-7	85.25	0	0	0	0	0	5.909	0

APPENDIX C
(continued)

120-751A Core, section, interval (cm)	Depth (mbsf)	Number of grains				Total IRD fragments	Dry wt bulk sample grains	IRD abundance (g)	(grains/g)
		Quartz	Accessory Feldspar	Rock minerals					
10H-4, 23-25	85.43	0	0	0	0	0	6.125	0	
10H-4, 43-45	85.63	0	0	0	0	0	5.877	0	
10H-4, 63-65	85.83	0	0	0	0	0	5.785	0	
10H-4, 83-85	86.03	0	0	0	0	0	5.696	0	
10H-4, 103-105	86.23	0	0	0	0	0	4.994	0	
10H-4, 123-125	86.43	0	0	0	0	0	5.398	0	
10H-5, 5-7	86.75	0	0	0	0	0	5.561	0	
10H-5, 23-25	86.93	0	0	0	0	0	5.945	0	
10H-5, 43-45	87.13	0	0	0	0	0	6.244	0	
10H-5, 63-65	87.33	0	0	0	0	0	6.042	0	
10H-5, 83-85	87.53	0	0	0	0	0	5.655	0	
10H-5, 103-105	87.73	0	0	0	0	0	6.418	0	
10H-5, 123-125	87.93	0	0	0	0	0	4.669	0	
10H-5, 142-144	88.12	0	0	0	0	0	4.760	0	
10H-6, 5-7	88.25	0	0	0	0	0	7.013	0	
10H-6, 23-25	88.43	0	0	0	0	0	5.337	0	
10H-6, 43-45	88.63	0	0	0	0	0	6.984	0	
10H-6, 63-65	88.83	0	0	0	0	0	6.025	0	
10H-6, 83-85	89.03	0	0	0	0	0	6.724	0	
10H-6, 103-105	89.23	0	0	0	0	0	4.957	0	
10H-6, 123-125	89.43	0	0	0	0	0	4.973	0	
10H-6, 142-144	89.62	0	0	0	0	0	4.366	0	
10H-7, 5-7	89.75	0	0	0	0	0	5.908	0	
10H-7, 23-25	89.93	0	0	0	0	0	5.756	0	
10H-7, 43-45	90.13	0	0	0	0	0	5.940	0	
10H-7, 63-65	90.33	0	0	0	0	0	5.636	0	

Volume 120B
Chapter 14

Appendix D

Appendix D. Neogene IRD apparent accumulation rates for total IRD grain abundance, Site 751.

120-751A, Core, section, interval (cm)	Depth (mbsf)	IRD grain abundance (grains/g)	Approx. dry bulk density (g/cm^3)	Sedimentation rate (cm/k.y.)	IRD apparent accumulation rate (grains/cm^2/k.y.)	Age (m.y.)
1H-1, 23-25	0.23	0	0.43	0.546	0.0	0.61
1H-1, 43-45	0.43	8	0.43	0.546	10.2	0.65
1H-1, 63-65	0.63	42	0.43	0.546	53.3	0.69
1H-1, 79-81	0.79	6	0.43	0.546	7.6	0.72
1H-1, 103-105	1.03	15	0.43	0.546	19.0	0.76
1H-1, 123-125	1.23	14	0.43	0.546	17.8	0.80
1H-1, 142-144	1.42	10	0.43	3.187	74.1	1.61
1H-2, 10-11	1.60	55	0.43	3.187	407.6	1.61
1H-2, 23-25	1.73	109	0.43	3.187	807.9	1.62
1H-2, 43-45	1.93	122	0.43	3.187	904.2	1.62
1H-2, 60-62	2.10	102	0.43	3.187	756.0	1.63
1H-2, 79-81	2.29	705	0.43	3.187	5225.2	1.63
1H-2, 97-99	2.47	154	0.43	3.187	1141.4	1.64
1H-2, 120-122	2.70	75	0.43	3.187	555.9	1.65
1H-2, 140-142	2.90	268	0.43	3.187	1986.3	1.65
1H-3, 5-7	3.05	33	0.43	3.187	244.6	1.66
1H-3, 43-45	3.43	11	0.43	3.187	81.5	1.67
1H-3, 65-67	3.65	61	0.43	3.187	452.1	1.68
1H-3, 97-99	3.97	72	0.43	3.187	533.6	1.69
1H-3, 137-139	4.37	16	0.43	3.187	118.6	1.70
2H-1, 63-65	5.33	50	0.43	3.187	370.6	1.73
2H-1, 83-85	5.53	38	0.43	3.187	281.6	1.73
2H-1, 103-105	5.73	46	0.43	3.187	340.9	1.74
2H-1, 123-125	5.93	46	0.43	3.187	340.9	1.75
2H-1, 142-144	6.12	44	0.43	1.895	193.9	3.00
2H-2, 5-7	6.25	109	0.43	1.895	480.4	3.01
2H-2, 23-25	6.43	64	0.43	1.895	282.0	3.02
2H-2, 32-36	6.52	30	0.43	1.895	132.2	3.03
2H-2, 43-45	6.63	10	0.43	1.895	44.1	3.03

Notes: Data are for ice-rafted debris (IRD) of ≥ 250-µm to < 2 mm size fraction. Accumulation rates are given in grains/cm^2/k.y.

APPENDIX D
(continued)

120-751A, Core, section, interval (cm)	Depth (mbsf)	IRD grain abundance (grains/g)	Approx. dry bulk density (g/cm^3)	Sedimentation rate (cm/k.y.)	IRD apparent accumulation rate ($grains/cm^2/k.y.$)	Age (m.y.)
2H-2, 63 -65	6.83	46	0.43	1.895	202.7	3.04
2H-2, 83 -85	7.03	122	0.43	1.895	537.7	3.05
2H-2, 103-105	7.23	228	0.43	1.895	1004.8	3.06
2H-2, 123-125	7.43	88	0.43	1.895	387.8	3.07
2H-2, 142-144	7.62	46	0.43	1.895	202.7	3.08
2H-3, 5-7	7.75	44	0.43	1.895	193.9	3.09
2H-3, 23-25	7.93	39	0.43	1.895	171.9	3.10
2H-3, 32-36	8.02	53	0.43	1.895	233.6	3.11
2H-3, 43-45	8.13	35	0.43	1.895	154.2	3.11
2H-3, 63-65	8.33	19	0.43	1.895	83.7	3.12
2H-3, 83-85	8.53	131	0.43	1.895	577.3	3.13
2H-3, 103-105	8.73	66	0.43	1.895	290.9	3.14
2H-3, 123-125	8.93	40	0.43	1.895	176.3	3.15
2H-3, 142-144	9.12	23	0.43	1.895	101.4	3.16
2H-3, 5-7	9.25	7	0.43	1.895	30.8	3.17
2H-4, 23-25	9.43	20	0.43	1.895	88.1	3.18
2H-4, 43-45	9.63	5	0.43	1.895	22.0	3.19
2H-4, 63-65	9.83	6	0.43	1.895	26.4	3.20
3H-1, 43-45	14.63	8	0.43	1.895	35.3	3.45
3H-1, 63-65	14.83	4	0.35	1.895	21.7	3.46
3H-1, 83-85	15.03	6	0.35	1.895	32.5	3.47
3H-1, 103-105	15.23	3	0.35	1.895	16.2	3.49
3H-1, 123-125	15.43	4	0.35	1.895	21.7	3.50
3H-1, 142-144	15.62	1	0.35	1.895	5.4	3.51
3H-2, 23-25	15.93	3	0.35	1.895	16.2	3.52
3H-2, 43-45	16.13	4	0.35	1.895	21.7	3.53
3H-2, 63-65	16.33	6	0.35	1.895	32.5	3.54
3H-2, 83-85	16.53	4	0.35	1.895	21.7	3.55
3H-2, 103-105	16.73	4	0.35	1.895	21.7	3.56
3H-2, 123-125	16.93	1	0.35	1.895	5.4	3.58

APPENDIX D
(continued)

120-751A, Core, section, interval (cm)	Depth (mbsf)	IRD grain abundance (grains/g)	Approx. dry bulk density (g/cm^3)	Sedimentation rate (cm/k.y.)	IRD apparent accumulation rate ($grains/cm^2/k.y.$)	Age (m.y.)
3H-3, 23-25	17.43	0	0.35	1.895	0.0	3.60
3H-3, 43-45	17.63	4	0.35	1.895	21.7	3.61
3H-3, 63-65	17.83	1	0.35	1.895	5.4	3.62
3H-3, 83-85	18.03	3	0.35	1.895	16.2	3.63
3H-3, 103-105	18.23	1	0.35	1.895	5.4	3.64
3H-3, 123-125	18.43	4	0.35	1.895	21.7	3.65
3H-3, 142-144	18.62	4	0.35	1.895	21.7	3.66
3H-4, 23-25	18.93	4	0.35	1.895	21.7	3.68
3H-4, 43-45	19.13	4	0.35	1.895	21.7	3.69
3H-4, 63-65	19.33	4	0.35	1.895	21.7	3.70
3H-4, 83-85	19.53	5	0.35	1.895	27.1	3.71
3H-4, 103-105	19.73	4	0.35	1.895	21.7	3.72
3H-4, 123-125	19.93	7	0.35	1.895	37.9	3.73
3H-5, 23-25	20.43	2	0.35	1.895	10.8	3.76
3H-5, 43-45	20.63	2	0.35	1.895	10.8	3.77
3H-5, 63-65	20.83	2	0.35	1.895	10.8	3.78
3H-5, 83-85	21.03	3	0.35	1.895	16.2	3.79
3H-5, 103-105	21.23	13	0.35	1.895	70.4	3.80
3H-5, 123-125	21.43	1	0.35	1.895	5.4	3.81
3H-5, 142-144	21.62	4	0.35	1.895	21.7	3.82
4H-2, 5-7	25.25	3	0.35	2.575	22.1	4.11
4H-2, 83-85	26.03	39	0.35	2.575	286.9	4.14
4H-2, 103-105	26.23	7	0.35	2.575	51.5	4.15
4H-2, 123-125	26.43	5	0.35	2.575	36.8	4.16
4H-2, 142-144	26.62	5	0.35	2.575	36.8	4.16
4H-3, 5-7	26.75	10	0.35	2.575	73.6	4.17
4H-3, 23-25	26.93	10	0.35	2.575	73.6	4.18
4H-3, 43-45	27.13	11	0.35	2.575	80.9	4.18
4H-3, 63-65	27.33	2	0.35	2.575	14.7	4.19
4H-3, 83-85	27.53	12	0.35	2.575	88.3	4.20

APPENDIX D
(continued)

120-751A, Core, section, interval (cm)	Depth (mbsf)	IRD grain abundance (grains/g)	Approx. dry bulk density (g/cm^3)	Sedimentation rate (cm/k.y.)	IRD apparent accumulation rate ($grains/cm^2/k.y.$)	Age (m.y.)
4H-3, 103-105	27.73	90	0.37	2.575	626.4	4.21
4H-3, 123-125	27.93	25	0.37	2.575	174.0	4.21
4H-3, 142-144	28.12	11	0.37	2.575	76.6	4.22
4H-4, 5-7	28.25	48	0.37	2.575	334.1	4.23
4H-4, 23-25	28.43	13	0.37	2.575	90.5	4.23
4H-4, 43-45	28.63	29	0.37	2.575	201.8	4.24
4H-4, 63-65	28.83	12	0.37	2.575	83.5	4.25
4H-4, 83-85	29.03	24	0.37	2.575	167.0	4.26
4H-4, 103-105	29.23	70	0.37	2.575	487.2	4.27
4H-4, 123-125	29.43	21	0.37	2.575	146.1	4.27
4H-4, 142-144	29.62	29	0.37	2.575	201.8	4.28
4H-5, 23-25	29.93	28	0.37	2.575	194.9	4.29
4H-5, 43-45	30.13	50	0.37	2.575	348.0	4.30
4H-5, 63-65	30.33	38	0.37	2.575	264.5	4.31
4H-5, 83-85	30.53	50	0.37	2.575	348.0	4.32
4H-5, 103-105	30.73	29	0.37	2.575	201.8	4.32
4H-5, 123-125	30.93	36	0.37	2.575	250.5	4.33
4H-5, 142-144	31.12	19	0.37	2.575	132.2	4.34
4H-6, 5-7	31.25	26	0.37	2.575	180.9	4.34
4H-6, 23-25	31.43	26	0.37	2.575	180.9	4.35
4H-6, 63-65	31.83	19	0.37	2.575	132.2	4.37
4H-6, 83-85	32.03	6	0.37	2.575	41.8	4.37
4H-6, 103-105	32.23	30	0.37	2.575	208.8	4.38
4H-6, 142-144	32.62	33	0.37	2.575	229.7	4.40
5H-1, 5-7	32.75	30	0.37	2.575	208.8	4.40
5H-1, 23-25	33.43	47	0.37	2.575	327.1	4.43
5H-1, 43-45	33.63	75	0.37	2.575	522.0	4.44
5H-1, 63-65	33.83	4	0.37	2.575	27.8	4.44
5H-1, 83-85	34.03	17	0.37	2.575	118.3	4.45
5H-1, 103-105	34.23	198	0.37	2.575	1378.0	4.46

APPENDIX D
(continued)

120-751A, Core, section, interval (cm)	Depth (mbsf)	IRD grain abundance (grains/g)	Approx. dry bulk density (g/cm^3)	Sedimentation rate (cm/k.y.)	IRD apparent accumulation rate ($grains/cm^2/k.y.$)	Age (m.y.)
5H-1, 123-125	34.43	32	0.37	2.575	222.7	4.47
5H-1, 142-144	34.62	44	0.37	2.575	306.2	4.47
5H-2, 5-7	34.75	151	0.37	2.575	1050.9	4.48
5H-2, 23-25	34.93	51	0.37	2.575	354.9	4.49
5H-2, 43-45	35.13	40	0.37	2.575	278.4	4.49
5H-2, 63-65	35.33	48	0.37	1.144	148.4	5.50
5H-2, 83-85	35.53	98	0.37	1.144	303.0	5.52
5H-2, 103-105	35.73	55	0.37	1.144	170.1	5.54
5H-2, 123-125	35.93	50	0.37	1.144	154.6	5.56
5H-2, 142-144	36.12	32	0.37	1.144	98.9	5.57
5H-3, 5-7	36.25	22	0.37	1.144	68.0	5.58
5H-3, 23-25	36.43	21	0.37	1.144	64.9	5.60
5H-3, 43-45	36.63	16	0.37	1.144	49.5	5.62
5H-3, 63-65	36.83	16	0.37	1.144	49.5	5.64
5H-3, 83-85	37.03	8	0.37	1.144	24.7	5.65
5H-3, 103-105	37.23	39	0.45	1.144	99.1	5.67
5H-3, 123-125	37.43	52	0.45	1.144	132.2	5.69
5H-3, 142-144	37.62	99	0.45	1.144	251.7	5.70
5H-4, 5-7	37.75	77	0.45	1.144	195.8	5.72
5H-4, 23-25	37.93	79	0.45	1.144	200.8	5.73
5H-4, 43-45	38.13	40	0.45	1.144	101.7	5.75
5H-4, 63-65	38.33	41	0.45	1.144	104.2	5.77
5H-4, 83-85	38.53	21	0.45	1.144	53.4	5.78
5H-4, 103-105	38.73	17	0.45	1.144	43.2	5.80
5H-4, 123-125	38.93	33	0.45	1.144	83.9	5.82
5H-4, 142-144	39.12	50	0.45	1.144	127.1	5.84
5H-5, 5-7	39.25	78	0.45	1.144	198.3	5.85
5H-5, 23-25	39.43	60	0.45	1.144	152.5	5.86
5H-5, 43-45	39.63	67	0.45	1.144	170.3	5.88
5H-5, 63-65	39.83	47	0.45	1.144	119.5	5.90

APPENDIX D
(continued)

120-751A, Core, section, interval (cm)	Depth (mbsf)	IRD grain abundance (grains/g)	Approx. dry bulk density (g/cm^3)	Sedimentation rate (cm/k.y.)	IRD apparent accumulation rate ($grains/cm^2/k.y.$)	Age (m.y.)
5H-5, 83-85	40.03	38	0.45	1.144	96.6	5.92
5H-5, 103-105	40.23	17	0.90	1.144	21.6	5.93
5H-5, 123-125	40.43	19	0.90	1.144	24.2	5.95
5H-5, 142-144	40.62	22	0.90	1.144	28.0	5.97
5H-6, 5-7	40.75	14	0.90	1.144	17.8	5.98
5H-6, 23-25	40.93	12	0.90	1.144	15.3	5.99
5H-6, 43-45	41.13	10	0.90	1.815	20.2	8.41
5H-6, 63-65	41.33	17	0.90	1.815	34.3	8.42
6H-1, 5-7	42.75	16	0.90	1.815	32.3	8.50
6H-1, 43-45	43.13	7	0.90	1.815	14.1	8.52
6H-1, 63-65	43.33	5	0.90	1.815	10.1	8.53
6H-1, 83-85	43.53	2	0.90	1.815	4.0	8.54
6H-1, 103-105	43.73	3	0.90	1.815	6.1	8.55
6H-1, 123-125	43.93	1	0.90	1.815	2.0	8.56
6H-1, 142-144	44.12	1	0.90	1.815	2.0	8.57
6H-2, 5-7	44.25	1	0.90	1.815	2.0	8.58
6H-2, 23-25	44.43	1	0.90	1.815	2.0	8.59
6H-2, 43-45	44.63	1	0.90	1.815	2.0	8.60
6H-2, 63-65	44.83	1	0.90	1.815	2.0	8.61
6H-2, 83-85	45.03	1	0.90	1.815	2.0	8.62
6H-2, 103-105	45.23	0	0.90	1.815	0.0	8.63
6H-2, 123-125	45.43	0	0.90	1.815	0.0	8.64
6H-2, 142-144	45.62	0	0.90	1.815	0.0	8.65
6H-3, 5-7	45.75	0	0.90	1.815	0.0	8.66
6H-3, 23-25	45.93	0	0.90	1.815	0.0	8.67
6H-3, 43-45	46.13	0	0.90	1.815	0.0	8.68
6H-3, 63-65	46.33	0	0.90	1.815	0.0	8.69
6H-3, 83-85	46.53	0	0.90	1.815	0.0	8.70
6H-3, 103-105	46.73	<1	0.90	1.815	0.4	8.72
6H-3, 123-125	46.93	0	0.90	1.815	0.0	8.73

APPENDIX D
(continued)

120-751A, Core, section, interval (cm)	Depth (mbsf)	IRD grain abundance (grains/g)	Approx. dry bulk density (g/cm^3)	Sedimentation rate (cm/k.y.)	IRD apparent accumulation rate ($grains/cm^2/k.y.$)	Age (m.y.)
6H-3, 142-144	47.12	<1	0.90	1.815	0.6	8.74
6H-4, 5-7	47.25	<1	0.90	1.815	0.6	8.74
6H-4, 23-25	47.43	<1	0.90	1.815	0.8	8.75
6H-4, 43-45	47.63	<1	0.90	1.815	0.6	8.77
6H-4, 63-65	47.83	1	0.90	1.815	1.0	8.78
6H-4, 83-85	48.03	0	0.90	1.815	0.0	8.79
6H-4, 103-105	48.23	<1	0.90	1.815	0.4	8.80
6H-4, 123-125	48.43	0	0.90	1.815	0.0	8.81
6H-5, 5-7	48.75	<1	0.90	1.815	0.4	8.83
6H-5, 23-25	48.93	<1	0.90	1.815	0.4	8.84
6H-5, 43-45	49.13	<1	0.90	1.815	0.4	8.85
6H-5, 63-65	49.33	<1	0.90	1.815	0.8	8.86
6H-5, 83-85	49.53	0	0.90	1.815	0.0	8.87
6H-5, 103-105	49.73	<1	0.90	1.815	0.6	8.88
6H-5, 123-125	49.93	<1	0.90	1.815	0.2	8.89
6H-5, 142-144	50.12	<1	0.90	1.815	0.8	8.90
6H-6, 5-7	50.25	<1	0.90	1.815	0.2	8.91
6H-6, 23-25	50.43	0	0.90	1.815	0.0	8.92
6H-6, 43-45	50.63	0	0.90	1.815	0.0	8.93
6H-6, 63-65	50.83	0	0.90	1.815	0.0	8.94
6H-6, 83-85	51.03	<1	0.90	1.815	0.2	8.95
6H-6, 103-105	51.23	<1	0.90	1.815	0.2	8.96
6H-6, 123-125	51.43	0	0.90	1.815	0.0	8.97
6H-6, 142-144	51.62	<1	0.90	1.815	0.6	8.99
6H-7, 5-7	51.75	0	0.90	1.815	0.0	8.99
6H-7, 23-25	51.93	0	0.90	1.815	0.0	9.00
6H-7, 43-45	52.13	0	0.90	1.815	0.0	9.01
7H-1, 63-65	52.83	<1	0.90	1.815	0.4	9.05
7H-1, 83-85	53.03	1	0.90	1.815	1.8	9.06
7H-1, 103-105	53.23	1	0.90	1.815	1.6	9.07

APPENDIX D
(continued)

120-751A, Core, section, interval (cm)	Depth (mbsf)	IRD grain abundance (grains/g)	Approx. dry bulk density (g/cm^3)	Sedimentation rate (cm/k.y.)	IRD apparent accumulation rate ($grains/cm^2/k.y.$)	Age (m.y.)
7H-1, 123-125	53.43	1	0.90	1.815	2.8	9.09
7H-1, 142-144	53.62	<1	0.90	1.815	0.8	9.10
7H-2, 5-7	53.75	0	0.90	1.815	0.0	9.10
7H-2, 23-25	53.93	0	0.90	1.815	0.0	9.11
7H-2, 43-45	54.13	0	0.90	1.815	0.0	9.12
7H-2, 63-65	54.33	0	0.90	1.815	0.0	9.13
7H-2, 83-85	54.53	0	0.90	1.815	0.0	9.15
7H-2, 103-105	54.73	0	0.90	1.815	0.0	9.16
7H-2, 123-125	54.93	<1	0.90	1.815	0.8	9.17
7H-2, 142-144	55.12	<1	0.90	1.815	0.6	9.18
7H-3, 5-7	55.25	<1	0.90	1.815	0.6	9.19
7H-3, 23-25	55.43	0	0.90	1.815	0.0	9.20
7H-3, 43-45	55.63	0	0.90	1.815	0.0	9.21
7H-3, 63-65	55.83	0	0.90	1.815	0.0	9.22
7H-3, 83-85	56.03	0	0.90	1.815	0.0	9.23
7H-3, 103-105	56.23	0	0.90	1.815	0.0	9.24
7H-3, 123-125	56.43	0	0.90	1.815	0.0	9.25
7H-3, 142-144	56.62	0	0.90	1.815	0.0	9.26
7H-4, 5-7	56.75	<1	0.90	1.815	0.4	9.27
7H-4, 23-25	56.93	0	0.90	1.815	0.0	9.28
7H-4, 43-45	57.13	0	0.90	1.815	0.0	9.29
7H-4, 63-65	57.33	0	0.90	1.815	0.0	9.30
7H-4, 83-85	57.53	0	0.90	1.815	0.0	9.31
7H-4, 103-105	57.73	0	0.90	1.815	0.0	9.32
7H-4, 123-125	57.93	0	0.90	1.815	0.0	9.33
7H-4, 142-144	58.12	0	0.90	1.815	0.0	9.34
7H-5, 5-7	58.25	<1	0.90	1.815	0.4	9.35
7H-5, 23-25	58.43	0	0.90	1.815	0.0	9.36
7H-5, 43-45	58.63	0	0.90	1.815	0.0	9.37
7H-5, 63-65	58.83	0	0.90	1.815	0.0	9.38

APPENDIX D
(continued)

120-751A, Core, section, interval (cm)	Depth (mbsf)	IRD grain abundance (grains/g)	Approx. dry bulk density (g/cm^3)	Sedimentation rate (cm/k.y.)	IRD apparent accumulation rate ($grains/cm^2/k.y.$)	Age (m.y.)
7H-5, 83-85	59.03	0	0.90	1.815	0.0	9.39
7H-5, 103-105	59.23	0	0.90	1.815	0.0	9.40
7H-5, 123-125	59.43	0	0.90	1.815	0.0	9.42
7H-5, 142-144	59.62	0	0.90	1.815	0.0	9.43
7H-6, 5-7	59.75	0	0.90	1.815	0.0	9.43
7H-6, 23-25	59.93	0	0.90	1.815	0.0	9.44
7H-6, 43-45	60.13	0	0.90	1.815	0.0	9.45
7H-6, 63-65	60.33	0	0.90	1.815	0.0	9.47
7H-6, 83-85	60.53	0	0.90	1.815	0.0	9.48
7H-6, 103-105	60.73	0	0.90	1.815	0.0	9.49
7H-6, 123-125	60.93	0	0.90	1.815	0.0	9.50
7H-7, 23-25	61.43	0	0.90	1.815	0.0	9.53
7H-7, 43-45	61.63	<1	0.90	1.815	0.6	9.54
7H-7, 63-65	61.83	<1	0.90	1.815	0.2	9.55
8H-2, 83-85	64.03	0	0.69	1.815	0.0	9.67
8H-2, 103-105	64.23	<1	0.69	1.815	0.3	9.68
8H-2, 123-125	64.43	0	0.69	1.815	0.0	9.69
8H-2, 142-144	64.62	0	0.69	1.815	0.0	9.70
8H-3, 5-7	64.75	0	0.69	1.815	0.0	9.71
8H-3, 23-25	64.93	0	0.69	1.815	0.0	9.72
8H-3, 43-45	65.13	0	0.69	1.815	0.0	9.73
8H-3, 63-65	65.33	<1	0.69	1.815	0.5	9.74
8H-3, 83-85	65.53	0	0.69	1.815	0.0	9.75
8H-3, 103-105	65.73	0	0.69	1.815	0.0	9.76
8H-3, 123-125	65.93	<1	0.69	1.815	0.3	9.77
8H-3, 142-144	66.12	0	0.69	1.815	0.0	9.78
8H-4, 5-7	66.25	0	0.69	1.815	0.0	9.79
8H-4, 23-25	66.43	0	0.69	1.815	0.0	9.80
8H-4, 43-45	66.63	0	0.69	1.815	0.0	9.81
8H-4, 63-65	66.83	0	0.69	1.815	0.0	9.82

APPENDIX D
(continued)

120-751A, Core, section, interval (cm)	Depth (mbsf)	IRD grain abundance (grains/g)	Approx. dry bulk density (g/cm^3)	Sedimentation rate (cm/k.y.)	IRD apparent accumulation rate ($grains/cm^2/k.y.$)	Age (m.y.)
8H-4, 83-85	67.03	0	0.69	1.815	0.0	9.83
8H-4, 103-105	67.23	0	0.69	1.815	0.0	9.85
8H-4, 123-125	67.43	0	0.69	1.815	0.0	9.86
8H-4, 142-144	67.62	0	0.69	1.815	0.0	9.87
8H-5, 5-7	67.75	0	0.69	1.815	0.0	9.87
8H-5, 23-25	67.93	0	0.69	1.815	0.0	9.88
8H-5, 43-45	68.13	0	0.69	1.815	0.0	9.90
8H-5, 63-65	68.33	0	0.69	1.815	0.0	9.91
8H-5, 83-85	68.53	0	0.69	1.815	0.0	9.92
8H-5, 103-105	68.73	2	0.69	1.815	5.3	9.93
8H-5, 123-125	68.93	0	0.69	1.815	0.0	9.94
8H-5, 142-144	69.12	0	0.69	1.815	0.0	9.95
8H-6, 5-7	69.25	0	0.69	1.815	0.0	9.96
8H-6, 23-25	69.43	0	0.69	1.815	0.0	9.97
8H-6, 43-45	69.63	0	0.69	1.815	0.0	9.98
9H-1, 5-7	71.25	0	0.69	1.815	0.0	10.07
9H-1, 23-25	71.43	0	0.69	1.815	0.0	10.08
9H-1, 43-45	71.63	0	0.69	1.815	0.0	10.09
9H-1, 63-65	71.83	0	0.69	1.815	0.0	10.10
9H-1, 83-85	72.03	0	0.69	1.815	0.0	10.11
9H-1, 103-105	72.23	0	0.69	1.815	0.0	10.12
9H-1, 123-125	72.43	0	0.69	1.815	0.0	10.13
9H-1, 142-144	72.62	0	0.69	1.815	0.0	10.14
9H-2, 5-7	72.75	0	0.69	1.815	0.0	10.15
9H-2, 23-25	72.93	0	0.69	1.815	0.0	10.16
9H-2, 43-45	73.13	0	0.69	1.815	0.0	10.17
9H-2, 63-65	73.33	0	0.69	1.815	0.0	10.18
9H-2, 83-85	73.53	0	0.69	1.815	0.0	10.19
9H-2, 103-105	73.73	0	0.69	1.815	0.0	10.20
9H-2, 123-125	73.93	0	0.69	1.815	0.0	10.21

APPENDIX D
(continued)

120-751A, Core, section, interval (cm)	Depth (mbsf)	IRD grain abundance (grains/g)	Approx. dry bulk density (g/cm^3)	Sedimentation rate (cm/k.y.)	IRD apparent accumulation rate ($grains/cm^2/k.y.$)	Age (m.y.)
9H-2, 142-144	74.12	0	0.69	1.815	0.0	10.23
9H-3, 5-7	74.25	0	0.69	1.815	0.0	10.23
9H-3, 23-25	74.43	0	0.69	1.815	0.0	10.24
9H-3, 43-45	74.63	0	0.69	1.815	0.0	10.25
9H-3, 63-65	74.83	0	0.69	1.815	0.0	10.26
9H-3, 83-85	75.03	0	0.69	1.815	0.0	10.28
9H-3, 103-105	75.23	0	0.90	1.815	0.0	10.29
9H-3, 123-125	75.43	0	0.90	1.815	0.0	10.30
9H-3, 142-144	75.62	0	0.90	1.815	0.0	10.31
9H-4, 5-7	75.75	0	0.90	1.815	0.0	10.31
9H-4, 23-25	75.93	0	0.90	1.815	0.0	10.32
9H-4, 43-45	76.13	0	0.90	1.815	0.0	10.34
9H-4, 63-65	76.33	0	0.90	1.815	0.0	10.35
9H-4, 83-85	76.53	0	0.90	1.815	0.0	10.36
9H-4, 103-105	76.73	0	0.90	1.815	0.0	10.37
9H-5, 5-7	77.25	0	0.90	1.815	0.0	10.40
9H-4, 23-25	77.43	0	0.90	1.815	0.0	10.41
9H-5, 32-36	77.52	0	0.90	1.815	0.0	10.41
9H-5, 43-45	77.63	0	0.90	1.815	0.0	10.42
9H-5, 63-65	77.83	0	0.90	1.815	0.0	10.43
9H-5, 103-105	78.23	0	0.90	1.815	0.0	10.45
9H-5, 123-125	78.43	0	0.90	1.815	0.0	10.46
9H-6, 5-7	78.75	0	0.90	1.815	0.0	10.48
9H-6, 23-25	78.93	0	0.90	1.815	0.0	10.49
9H-6, 32-36	79.02	0	0.90	1.815	0.0	10.50
9H-6, 43-45	79.13	0	0.90	1.815	0.0	10.50
9H-6, 63-65	79.33	0	0.90	1.815	0.0	10.51
9H-6, 83-85	79.53	0	0.90	1.815	0.0	10.52
9H-6, 103-105	79.73	0	0.90	1.815	0.0	10.53
9H-6, 123-125	79.93	0	0.90	1.815	0.0	10.55

APPENDIX D
(continued)

120-751A, Core, section, interval (cm)	Depth (mbsf)	IRD grain abundance (grains/g)	Approx. dry bulk density (g/cm^3)	Sedimentation rate (cm/k.y.)	IRD apparent accumulation rate ($grains/cm^2/k.y.$)	Age (m.y.)
9H-6, 142-144	80.12	0	0.90	1.815	0.0	10.56
9H-7, 5-7	80.25	0	0.90	1.815	0.0	10.56
9H-7, 23-25	80.43	0	0.90	1.815	0.0	10.57
9H-7, 43-45	80.63	0	0.90	1.815	0.0	10.58
9H-7, 63-65	80.83	0	0.90	1.815	0.0	10.59
10H-1, 5-7	80.75	0	0.90	1.815	0.0	10.59
10H-1, 23-25	80.93	0	0.90	1.815	0.0	10.60
10H-1, 43-45	81.13	0	0.90	1.815	0.0	10.61
10H-1, 63-65	81.33	0	0.90	1.815	0.0	10.62
10H-1, 83-85	81.53	0	0.90	1.815	0.0	10.63
10H-1, 103-105	81.73	0	0.90	1.815	0.0	10.64
10H-1, 142-144	82.12	0	0.90	1.815	0.0	10.67
10H-2, 5-7	82.25	0	0.90	1.815	0.0	10.67
10H-2, 23-25	82.43	0	0.90	1.815	0.0	10.68
10H-2, 43-45	82.63	0	0.90	1.815	0.0	10.69
10H-2, 63-65	82.83	0	0.90	1.815	0.0	10.70
10H-2, 83-85	83.03	0	0.90	1.815	0.0	10.72
10H-2, 103-105	83.23	0	0.90	1.815	0.0	10.73
10H-2, 123-125	83.43	0	0.90	1.815	0.0	10.74
10H-2, 142-144	83.62	0	0.90	1.815	0.0	10.75
10H-3, 5-7	83.75	0	0.90	1.815	0.0	10.76
10H-3, 23-25	83.93	0	0.90	1.815	0.0	10.77
10H-3, 43-45	84.13	0	0.90	1.815	0.0	10.78
10H-3, 63-65	84.33	0	0.90	1.815	0.0	10.79
10H-3, 83-85	84.53	0	0.90	1.815	0.0	10.80
10H-3, 103-105	84.73	0	0.90	1.815	0.0	10.81
10H-3, 123-125	84.93	0	0.90	1.815	0.0	10.82
10H-3, 142-144	85.12	0	0.90	1.815	0.0	10.83
10H-4, 5-7	85.25	0	0.90	1.815	0.0	10.84
10H-4, 23-25	85.43	0	0.90	1.815	0.0	10.85

APPENDIX D
(continued)

120-751A, Core, section, interval (cm)	Depth (mbsf)	IRD grain abundance (grains/g)	Approx. dry bulk density (g/cm^3)	Sedimentation rate (cm/k.y.)	IRD apparent accumulation rate ($grains/cm^2/k.y.$)	Age (m.y.)
10H-4, 43-45	85.63	0	0.90	1.815	0.0	10.86
10H-4, 63-65	85.83	0	0.90	1.815	0.0	10.87
10H-4, 83-85	86.03	0	0.90	1.815	0.0	10.88
10H-4, 103-105	86.23	0	0.90	1.815	0.0	10.89
10H-4, 123-125	86.43	0	0.90	1.815	0.0	10.90
10H-5, 5-7	86.75	0	0.90	1.815	0.0	10.92
10H-5, 23-25	86.93	0	0.90	1.815	0.0	10.93
10H-5, 43-45	87.13	0	0.90	1.815	0.0	10.94
10H-5, 63-65	87.33	0	0.90	1.815	0.0	10.95
10H-5, 83-85	87.53	0	0.90	1.815	0.0	10.96
10H-5, 103-105	87.73	0	0.90	1.815	0.0	10.97
10H-5, 123-125	87.93	0	0.90	1.815	0.0	10.99
10H-5, 142-144	88.12	0	0.90	1.815	0.0	11.00
10H-6, 5-7	88.25	0	0.90	1.815	0.0	11.00
10H-6, 23-25	88.43	0	0.90	1.815	0.0	11.01
10H-6, 43-45	88.63	0	0.90	1.815	0.0	11.02
10H-6, 63-65	88.83	0	0.90	1.815	0.0	11.04
10H-6, 83-85	89.03	0	0.90	1.815	0.0	11.05
10H-6, 103-105	89.23	0	0.90	1.815	0.0	11.06
10H-6, 123-125	89.43	0	0.90	1.815	0.0	11.07
10H-6, 142-144	89.62	0	0.90	1.815	0.0	11.08
10H-7, 5-7	89.75	0	0.90	1.815	0.0	11.09
10H-7, 23-25	89.93	0	0.90	1.815	0.0	11.10
10H-7, 43-45	90.13	0	0.90	1.815	0.0	11.11
10H-7, 63-65	90.33	0	0.90	1.815	0.0	11.12

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Appendix A

APPENDIX A. Stratigraphic range and relative abundance of Paleogene Planktonic foraminifer taxa, Hole 747A.

Chrono-Stratigraphy: Epoch	Series	Bio-Stratigraphy: Planktonic foraminifer zones	Depth (mbsf)	Hole 747A: Core, section, interval (cm)	Abundance	Preservation	*G. woodi*	*P. incognita*	*T. angustiumbilicata*	*G. suteri*	*C. unicavus*	*C. dissimilis*	*G. euapertura*	*G. brazieri*	*G. labiacrassata*	*T. minutissima*	*T. pseudoedita*	*T. clemenciae*	*P. nana*	*G. juvenile*	*P. siakensis*	*T. munda*	*G. praestainforthis*	*T. gemma*	*S. angiporoides*	*Ac. primitiva*	*M. trinidadensis*	*Ch. abensis*	*Ac. mathewsae*	*Ac. bullbrooki*	*Ps. wilcoxensis*	*S. patagonica*	*G. australiformis*	*S. pseudobulloides*	*Gl. compressa*	*M. subbotinae*	*Acarinina* spp.	*Ch. midwayensis*	*Ch. wilcoxensis*	*Chiloguembelina* sp.	*S. triloculinoides*	*Gl. compressa*	*Eogl. edita*	*Gl. daubjergensis*	*P. taurica*	*Eogl. eobulloides*	*Guembelitria*	*Eogl. trivialis*	*Globoturncana*	*Rugoglobigerina*	*Globigerinelloides*	*Heterohelix* spp.
Miocene	early	*G. brazieri*	113.5	12H-CC	A	G	F	R		R	R	F		R	f																																			
			113.9	13H-1, 40–44	A	G	F	r	R	R				R	a	R	R	R																															
			116.9	13H-3, 40–44	A	M/G	R	r	R	R		R		R	a	R	R	R																														
			119.9	13H-5, 40–44	A	M/G		r	R	F	R	F		R	f	R	R	R																														
			123.0	13H-CC	A	M/G			R	F	R	R				R	R	R	R																														
Oligocene	late		124.9	14H-2, 40–44	A	G	R		R	R	F			F	f		R		R																														
			127.9	14H-4, 40–44	A	G			R	R				F	c			R																														
		Globigerina euapertura	130.9	14H-6, 40–44	A	G			R	R	F	R	R		f		R		F																														
			132.5	14H-CC	A	G			R	R	F	R	R		f		R		F																														
			132.9	15H-1, 40–44	A	G			R	R	F	R	R		f		R		R																														
			135.9	15H-3, 40–44	A	G			R	R	C	R	R		r		R		R																														
			138.9	15H-5, 40–44	A	G			R	R	F	R	F		r		R		F																														
			141.9	15H-7, 40–44	A	G			R	R	F	F	R						R																														
			142.0	15H-CC	A	G			R	F	F	F	F		R				R																														
			145.4	16H-3, 40–44	A	G			R	F	F	F	R																																				
		G. labia-crassata	148.4	16H-5, 40–44	A	G			R	F	F	F	R		R				R																														
			151.4	16H-7, 40–44	A	G				F	F	R	R		R				R																														
			151.5	16H-CC	A	M				F	R	R	F		F				R																														
			153.4	17X-2, 40–44	A	G				C	F	R	R		F				R	F		R		R	r																						
			156.4	17X-4, 40–44	A	G				F	F	R	F							R		R		R	r																						
	e	*C cubensis*	159.4	17X-6, 40–44	A	G/M				C	F	F										R		R	r	R	r																				
			161.0	17X, CC	A	M				F	F	R	R						R			R						R																				
			162.9	18X-2, 40–44	A	M				F	F	F							R			R						F																				
Eocene	e	P9	165.0	18X, CC	A	M				F	F	F	R						R			R						F																				
			170.6	19X-1, 11–13	A	G																				F			F	C	R	C	C															
	l	P6	173.2	19X-3, 19–21	A	G																											C	C	R	F	F	R	F	R							
Paleocene			176.5	19X, CC	A	G																											F	f			F		R	F	F	R	R					
	early	P1b-c	181.3	20X-1, 129–131	A	M/G																											R				R		R	F	F	R	R					
			181.7	20X-2, 19–21	A	M/G																											F				F		F	F	F	R	R					
			181.9	20X-2, 34–35	A	M/G																											F				F		F	R	F	R	R					
			182.1	20X-2, 44–46	F	M/G																											R				F		F		R	F		F				
			182.17	20X-2, 51–53	F	P																											+				+		+		+	+		+				
			182.3	20X-2, 62–63	F	P																											+								+	+		+				
			182.5	20X, CC	R	P																											+				+		+			+		+				

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Appendix B

APPENDIX B. Stratigraphic range and relative abundance of Paleogene Planktonic foraminifer taxa, Hole 747C.

Chrono-stratigraphy: Epoch	Chrono-stratigraphy: Series	Bio-stratigraphy: Planktonic foraminifer zones	Depth (mbsf)	Hole 747C: Core, section, interval (cm)	Abundance	Preservation	*Gl. suteri*	*C. unicavus*	*C. dissimilis*	*G. labiacrassata*	*G. juvenilis*	*Ten. munda*	*Ten. gemma*	*S. angiporoides*	*G. euapertura*	*Ch. cubensis*	*S. brevis*	*Ac. matthewsae*	*Ac. primitiva*	*Ac. bullbrooki*	*Ps. micra*	*C. index*	*S. eocaena*	*S. linaperta*	*T. insolita*	*Acarinina* spp.	*Ac. wilcoxensis*	*Ac. angulosa*	*S. frontosa*	*S. patagonica*	*Pl. australiformis*	*M. subbotinae*	*S. inaequispira*	*Ac. appressocamerata*	*Ac. pseudotopilensis*	*Ac. soldadoensis*	*Ac. pentacamerata*	*Gl. semi*	*M. marginodenta*	*Ch. wilcoxensis*	*M. lensiformis*	*M. formosa*	*M. aequa*	*S. pseudobulloides*	*S. triloculinoides*	*Gl. compressa*	*E. trivialis*	*Eogl. eobulloides*	*Ch. midwayensis*	*Gl. daubjergensis*	*E. edita*
Oligocene	late	*G. labiac.*	159.4	1R-1, 41–45	A	G/P	R	R	F	R	R	R	R	f	R				[F]	[R]		[R]																													
	early	*Chilog. cubensis*	160.9	1R-2, 41–45	A	G/P	R	F	F	R	R	R	R	[R]	R	R			[F]	[R]		[R]																													
			161.4	1R-3, 41–45	A	G/P	R	R	F	C	R	F	F		R	C			[F]	[R]		[R]																													
			162.9	1R-4, 41–45	A	G/P	R	R	F	C	R	F	F		R	C			[F]	[R]		[R]																													
			164.4	1R-5, 41–45	A	G/P	R	R	F	C	R	F	F		R				[R]	[R]																															
			165.6	1R-6, 9–13	A	G/P	R	R	F	C	R	F	F		R	F			[R]	[R]																															
			168.9	2R-1, 39–41	A	G	C	F	F	F		R	R			R																																					
			169.4	2R-1, 94–96	A	G	R	F	R					C		R	R	[F]	[F]	[R]	R	[R]																													
			169.6	2R-1, 82–84	A	G	C	F	R				R			R	R																																				
			169.8	2R-1, 119–121	A	G	R	F	R				R	A		F	R	[F]	[F]	[R]		[R]																													
Eocene		*S. angiporoides*	170.2	2R-2, 19–21	A	G	R	R	R				R	A		A	R																																			
			170.4	2R-2, 40–42	A	G	R	R	R				R	A		A	R	[R]	[R]																																	
			170.7	2R-2, 69–71	A	G	R							A		A						[F]	R	F																													
			170.8	2R-2, 79–81	A	G	F	R					R	A		A						[F]	F	R																													
	late	*G. suteri*	170.9	2R-2, 89–91	A	G	F	R						A		A	R	[R]	[R]		R	C	F	R																													
			171.0	2R-2, 97–99	A	G	F	R						A		A	R	[R]	[R]		R	C	R	F																													
			171.4	2R-2, 145–147	A	G	F	R						A		F		[F]	[F]			C	R	R	R	[F]	[F]																										
			172.5	2R-3, 98–99	A	G	F	R						R		F		[F]	[F]		R	A		F	R	[F]	[F]																										
			172.9	2R-3, 98–100	A	G	F	R						R		F		[F]	[F]		R	A		F	R	[F]	[F]																										
	early	P9	173.04	2R-3, 139–141	A	G												C				[F]					F	C	R	C	C	[R]																				
		P8	173.9	2R-3, 146–148	A	G																						F		C	C		R	F	F	F	R	R														
		P7	174.2	2R-4, 90–92	A	G																					R	F		F	F		F			R		F	F	R		R										
		P6b	174.3	2R-4, 120–122	A	G																							F	C	R					R		F	F	R	R											
		P6a	174.4	2R-4, 130–132	A	G																					R			F	R					C			F	R			R	[F]	[F]	[C]	[R]				
			174.45	2R-4, 141–143	A	G																					R			C	R	F				C			F	R				[F]	[R]	[R]	[F]				
Paleocene	early	P1c	174.46	2R-5, 9–11	A	G																																						F	R	C	F	F	F	F	
			174.5	2R-5, 20–22	A	G																																						F	R	C	F	F	F	F	
			178.7	3R-1, 70–72	A	G																																						F	R	R	R	R	F	C	R
			179.6	3R-2, 13–15	A	G																																						F			R		F	F	
		P1b	180.4	3R-2, 90–92	M	M/P																																						F	R		R		F	F	
			181.2	3R-3, 26–28	M	M/P																																						•	•				•		
			181.4	3R-3, 40–42	M	M/P																																						•	•		•		•		
			181.9	3R-3, 54–56	M	M/P																																						•	•		•				

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Appendix C

APPENDIX C. Stratigraphic range and relative abundance of Paleogene Planktonic foraminifer taxa, Hole 748B.

Chrono-Stratigraphy: Epoch	Chrono-Stratigraphy: Series	Bio-Stratigraphy: Planktonic foraminifer zones	Depth (mbsf)	Hole 748B: Core, section, interval (cm)	Abundance	Preservation	*G. uvula*	*G. woodi*	*C. dissimilis*	*A. primitiva*	*P. incognita*	*C. unicavus*	*T. cf. pseudoedita*	*G. labiacrassata*	*G. brazieri*	*T. munda*	*Tenuitella* sp. indet.	*G. sutteri*	*T. gemma*	*G. euapertura*	*A. collactea*	*C. cubensis*	*G. index*	*G. officinalis*	*S. angiporoides*	*S. linaperta*	*A. bullbrooki*	*S. brevis*	*T. insoliata*	*T. patefacta*	*P. micra*	*G. eocaena*	*P. nana*	*S. patagonica*	*A. mathewsae*	*M. spinulosa*	*G. turgida*
Miocene	early	*Globigerina brazieri*	54.0	7H-5, 40–44	A	G		F	R		R	A			C		F	R																		
			55.5	7H-6, 40–44	A	G		F	F			A			R		F	R																		
			57.1	7H-CC	F	G		F	F						R		R	R																		
			57.5	8H-1, 40–44	A	G		F	R				F		C		F	R																		
			59.0	8H-2, 40–44	A	G	R	F	R					a	F		R	R																		
			60.5	8H-3, 40–44	A	G		F	R			R	R	a	F		C																			
			62.0	8H-4, 40–44	A	G							R	a	F		F																			
			63.5	8H-5, 40–44	A	G						A	R	r	F	R	F	R																		
			65.0	8H-6, 40–44	A	G						F	R	r	F	F	C			F																
			66.5	8H-7, 40–44	A	G			R			C	R	r	F	F	C			F																
			66.6	8H-CC	A	G			R			F	R	f	F	F	C			C																
			67.0	9H-1, 40–44	A	G			R			A	R	r	F	R	C	R																		
			68.5	9H-2, 40–44	A	G			R			C			C	F	C		R	F																
?		?	70.0	9H-3, 40–44	A	G						C			C	F	C		F	F																
			71.5	9H-4, 40–44	A	G						A				F	C	C	F																	
	late	*Globigerina euapertura*	73.0	9H-5, 40–44	A	G				R		A				F	C	R	F																	
			74.5	9H-6, 40–44	A	G						F				F	C		F	F																
			76.0	9H-7, 40–44	A	G				F		F				F	C		F	F	R															
			76.1	9H-CC	A	G						F				F	C		F	F		R														
			76.5	10H-1, 40–44	A	G			C	F		C				F	C	C	F					C												
			78.0	10H-2, 40–44	A	G						F				F	C	C	F		R			C	c											
			79.5	10H-3, 40–44	A	G						R				F	C	C	F					C	c											
			81.0	10H-4, 40–44	A	G										R	F	A	R	F				F												
		Globigerina labiacras.	82.5	10H-5, 40–44	A	G			F	F					F	R	F	C	R	F	R		R	R	f											
			83.9	10H-6, 34–38	A	G			R	R					F	R	F	C		C	R			R												
Oligocene	early	*Chiloguembelina cubensis*	85.6	10H-CC	A	G			R						F	R	F	C		C	R	F	R	R												
			86.9	11H-1, 80–84	A	G						F		R		F	F	A	F	F	R	F		F												
			87.5	11H-2, 40–44	A	G			R			F		R		F	F	A	F	F	R	R		F	R											
			89.4	11H-3, 80–84	A	G			R	F		F		R		F	F	C		R	R	C		R												
			90.5	11H-4, 40–44	A	G				F		R		F		F	F	C		R	R	C		R												
			92.0	11H-5, 40–44	A	G				R		F		C		F	F	F			R															
			93.9	11H-6, 80–84	A	G			R	F		R		A		F	F	R			R	F	R													
			95.1	11H-CC	A	G			R			R		C		R	F			R	F															
			95.5	12H-1, 40–44	A	G			R	R		F		C		R	F	C	F																	
			97.4	12H-2, 80–84	A	G			F	R		F		C		F	F	C	F	F	R	F	F	R												
		Subbotina angiporoides	98.5	12H-3, 80–84	A	G			F	R		F		F		F	F	C	F		R	F	F		F	R	R									
			100.4	12H-4, 80–84	A	G			R	R		C				F	F	C	F			F			C		R									
			101.5	12H-5, 40–44	A	G			R	R		C				R	F	C	F			F	R		C											
			103.0	12H-6, 40–44	A	G			R	R		C				R	F	R	F			F	R		C											
			104.6	12H-CC	C	G			R	R		C				R	F	R	F			F	R		C											
			105.0	13H-1, 40–44	A	G			R	R		C					F		R			C			C											
			106.6	13H-2, 80–84	A	G			R			C				F	F	F	R		R	F	R	R	C											
			108.0	13H-3, 40–44	A	G			R	F		C				F	F	F	R		R	C	R		C											
			109.5	13H-4, 80–84	A	G			R	R		C				C	F	C	F			F			C											
			111.0	13H-5, 40–44	A	G			R			C				R	F	F	F			C			C											

Appendix C (continued).

Epoch	Series	Planktonic foraminifer zones	Depth (mbsf)	Hole 748B Core, section, interval (cm)	Abundance	Preservation	*G. uvula*	*G. woodi*	*C. dissimilis*	*A. primitiva*	*P. incognita*	*C. unicavus*	*T.* cf. *pseudoedita*	*G. labiacrassata*	*G. brazieri*	*T. munda*	*Tenuitella* sp. indet.	*G. suteri*	*T. gemma*	*G. euapertura*	*A. collactea*	*C. cubensis*	*G. index*	*G. officinalis*	*S. angiporoides*	*S. linaperta*	*A. bullbrooki*	*S. brevis*	*T. insolita*	*T. patefacta*	*P. micra*	*G. eocaena*	*P. nana*	*S. patagonica*	*A. mathewsae*	*M. spinulosa*
Oligocene	early	*Subbotina angiporoides*	112.9	13H-6, 80–84	A	G			R			C					R	R	F			C			C											
Oligocene	early	*Subbotina angiporoides*	114.0	13H-7, 40–44	A	G			R	R		C				R	F	R	F			C			C											
Oligocene	early	*Subbotina angiporoides*	114.1	13H-CC	C	G			R	R		C				R	F	R	F			C	R		C											
Oligocene	early	*Subbotina angiporoides*	114.5	14H-1, 40–44	C	G			R			C						R	F			A			C											
Oligocene	early	*Subbotina angiporoides*	116.4	14H-2, 80–84	A	G			R			A				R	R	F	R			A			A											
Oligocene	early	*Subbotina angiporoides*	117.5	14H-3, 40–44	C	G			R			C						F				A			A											
Oligocene	early	*Subbotina angiporoides*	119.4	14H-4, 80–84	C	G			R	R		C						R				A			C											
Oligocene	early	*Subbotina angiporoides*	120.5	14H-5, 40–44	C	G			F			F						R				A			A											
Oligocene	early	*Subbotina angiporoides*	122.4	14H-6, 80–84	C	G			F			C						F				A	C		C											
Oligocene	early	*Subbotina angiporoides*	123.6	14H-CC	C	G			F			C						F				A	F		C											
Eocene	late	*Globorotaloides suteri*	124.4	15H-1, 80–84	A	G						F					C	R				A	C		R			F	R	R	R					
Eocene	late	*Globorotaloides suteri*	125.9	15H-2, 80–84	A	G						C					A	F				A	A		R				F	R						
Eocene	late	*Globorotaloides suteri*	127.4	15H-3, 40–44	A	G						F					A	C				F	A		F			F	R	R		F				
Eocene	late	*Globorotaloides suteri*	129.4	15H-4, 80–84	A	G						F					A	C				F	A		A			R	F			F				
Eocene	late	*Globorotaloides suteri*	130.9	15H-5, 40–44	A	G						F					A	C				F	A		C	R		R	F			F				
Eocene	late	*Globorotaloides suteri*	132.6	15H-6, 80–84	A	G						R					A	C				F	A		F	F			F			F	R			
Eocene	late	*Globorotaloides suteri*	133.1	15H-CC	A	G						R					A	C				F	A		F	F			F			F	R			
Eocene	late	*Globorotaloides suteri*	133.9	16H-1, 80–84	A	G											A	C				C	A		C	R						F	F			
Eocene	late	*Globorotaloides suteri*	135.4	16H-2, 40–44	A	G											A	C				A	A		C	R						R	F			
Eocene	late	*Globorotaloides suteri*	137.3	16H-3, 80–84	A	G											A	C				A	A		C	R			R			F	R			
Eocene	late	*Globorotaloides suteri*	138.4	16H-4, 40–44	A	G											A	C				A	A		C	R						C	F			
Eocene	late	*Globorotaloides suteri*	140.3	16H-5, 80–84	A	G											A	C				C	A		F	R					R	C	F			
Eocene	late	*Globorotaloides suteri*	141.4	16H-6, 40–44	A	G											A	F				A	A		F	R						C				
Eocene	late	*Globorotaloides suteri*	142.4	16H-7, 80–84	A	G			R								A	F			F	A	A		F	R						C	F			F
Eocene	late	*Globorotaloides suteri*	142.6	16H-CC	A	G			R								A	F			F	A	A		F	R						C	F			F
Eocene	middle	*Globorotaloides suteri*	143.4	17H-1, 80–84	C	G											F	F			F	A	F		F	R						C				F
Eocene	middle	*Globorotaloides suteri*	144.9	17H-2, 80–84	C	G											F	F			R	A	F		C	C						F				F
Eocene	middle	*Globorotaloides suteri*	146.4	17H-3, 80–84	C	G											R	F			F	A	R		F	C						F				F
Eocene	middle	*Globigerinatheka index*	147.9	17H-4, 80–84	C	G											C	R			R	A	C		R	C										R
Eocene	middle	*Globigerinatheka index*	149.4	17H-5, 80–84	C	G											C	F			F	F	C			C										F
Eocene	middle	*Globigerinatheka index*	151.9	17H-6, 80–84	C	G											C	F			F	C	C		|	C								F		
Eocene	middle	*Globigerinatheka index*	152.1	17H-CC	C	G											C	F			F	C	C		s.s	C								F		
Eocene	middle	*Globigerinatheka index*	152.5	18H-1, 40–44	C	G											C				C	C	C			C								R		F
Eocene	middle	*Globigerinatheka index*	154.4	18H-2, 80–84	C	G											C				F	A	C		/	C								F		
Eocene	middle	*Globigerinatheka index*	155.5	18H-3, 40–44	C	G			R								C				C	A	C		s.l.	C								F		F
Eocene	middle	*Acarinina collactea*	157.0	18H-4, 40–44	C	G			C								F				C	A	F		|	F								R		F
Eocene	middle	*Acarinina collactea*	158.9	18H-5, 80–84	C	G			C								R				C	F	R		R	R								R		F
Eocene	middle	*Acarinina collactea*	160.4	18H-6, 80–84	C	G			R								C				C	R	C		R	F								R		F
Eocene	middle	*Acarinina collactea*	161.0	18H-7, 40–44	C	G			R								A				C	R	A			R								R		R
Eocene	middle	*Acarinina collactea*	161.6	18H-CC	C	G			C								C				C	C	C			F	R							R		R
Eocene	middle	*Acarinina collactea*	162.4	19H-1, 80–84	C	G			F								A				C	R	A			R	R							F		F
Eocene	middle	*Acarinina collactea*	163.5	19H-2, 40–44	C	G			C								C				C		C				R							F		F
Eocene	middle	*Acarinina collactea*	165.4	19H-3, 80–84	C	G			F								A				C	R	A			R	R				R			F		F
Eocene	middle	*Acarinina collactea*	166.5	19H-4, 40–44	C	G			F								A				C		A			R	F							R		F

Appendix C (continued).

Chrono-Stratigraphy: Epoch	Chrono-Stratigraphy: Series	Bio-: Planktonic foraminifer zones	Depth (mbsf)	Hole 748B: Core, section, interval (cm)	Abundance	Preservation	*G. uvula*	*G. woodi*	*C. dissimilis*	*A. primitiva*	*P. incognita*	*C. unicavus*	*T.* cf. *pseudoedita*	*G. labiacrassata*	*G. brazieri*	*T. munda*	*Tenuitella* sp. indet.	*G. suteri*	*T. gemma*	*G. euapertura*	*A. collactea*	*C. cubensis*	*G. index*	*G. officinalis*	*S. angiporoides*	*S. linaperta*	*A. bullbrooki*	*S. brevis*	*T. insoliata*	*T. patefacta*	*P. micra*	*G. eocaena*	*P. nana*	*S. patagonica*	*A. mathewsae*	*M. spinulosa*	*G. turgida*
Eocene	middle	*Acarinina collactea*	168.4	19H-5, 80–84	C	G			F								A				F	C	A			R								R			F
			169.5	19H-6, 40–44	C	G			F								C				C	R	C				R								F			R
			171.1	19H-CC	C	G			F								C				C	C	C			C	R				R				F			F
			171.5	20H-1, 40–44	C	G			F								F				C	F	F		R	F	R								F			R
			173.8	20H-2, 125–129	C	G			R								F				R	A	F		R		C				R				F			F
			174.9	20H-3, 80–84	C	G			R								R				R	R	C		R		C								F	F		C
			176.0	20H-4, 40–44	C	G											F				R	F	C		R	F	C				R				F			F
			177.5	20H-5, 40–44	A	G											F					R	C		R	F	C								F			C
			179.4	20H-6, 80–84	A	G			C								F				R	F	C		R	R	C								F			C
			180.6	20H, CC	A	G											F					F	C		R	R	C								F			C
			181.1	21X, CC	A	M											R					C	R		R	R	C								F		R	C
			187.2	22X, CC	C	M																																F
			200.8	23X, CC	A	M											C					F	F		R	R									F	R	R	F
			206.1	24X, CC	A	G											C					F	F		R										F	F		F

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Appendix D

APPENDIX D. Stratigraphic range and relative abundance of Paleogene Planktonic foraminifer taxa, Hole 748C.

Chrono-Stratigraphy Epoch	Series	Bio-Stratigraphy Planktonic foraminifer zones	Depth (mbsf)	Hole 748C Core, section, interval (cm)	Abundance	Preservation	*G. turgidus*	*S. angiporoides*	*C. cubensis*	*G. index*	*G. primitiva*	*A. collactea*	*A. bullbrooki*	*S. linaperta*	*S. patagonica*	*P. micra*	*M. spinulosa*	*A. spinuloinflata*	*P. wilcoxensis*	*S. frontosa*	*G. senni*	*Chiloguembelina* sp.	*P. australiformis*	*A. angulosa*	*M. aragonensis*	*A. pentacamerata*	*A. wilcoxensis*	*A. pseudotopilensis*	*I. broedermanni*	*G. chapmani*	*M. lensiformis*	*S. inaequispira*	*I. convexa*	*A. soldadoensis*	*C. wilcoxensis*	*M. gracilis*	*M. subbotinae*	*S. triangularis*	*A. acarinata*	*S. velascoensis*	*A. esnaensis*	*M. tadjikistanensis*	*I. albeari*	*S. quadrata*	*Acarinina* sp. indet	*I. pusilla*	*Gl. pseudomenardii*	*Subbotina* sp.	*S. trilocullinoides*	*A. mckannai*	*S. varianta*
Eocene	middle	*A. collactea*	176.0	1R-CC	C	G	C	R	F	C	F	R	C	F	F	R	F	R				•																											
		Ps. micra	220.5	6R-CC	C	M																																												
	early	*Ac. bullbrooki*	258.7	10R-1, 14–21	C	G					C		F		C				F	•	•	F	R	F			F					R	F																
			261.0	10R-2, 97–99	C	G					C				C				F			F	R	F	R	F	F			R																			
		Ac. pentacamerata	261.7	10R-3, 23–25	C	G					C				C				F			F	F	F	R	C	•			R																			
			262.3	10R-CC	C	G					•				•				•			•	•	•			•			•																			
		S. patagonica	268.0	11R-CC	C	M					•				•							•	•				•			•																			
			278.3	12R-CC	C	M					•				•							•	•																										
		M. subbotinae	298.2	14R-CC	C	G					•				•							•	•																										
			306.0	15R-CC	C	P					•				•							•	•																										
		Globan. australiformis	315.5	16R-CC	C	M					•											•	•																										
			320.5	17R-CC	F	P																•	•																										
Paleocene	late	(P4–?P3)	331.5	19R-CC	C	M																•	•																										
			340.6	20R-1, 1–3	C	M																•	•																										
			351.0	21R-CC	C	M																•	•																										
			359.5	22R-CC	C	G																•	•																										
			369.0	23R-CC	A	M																•	•																										
			379.7	24R-CC	C	M																•	•																										
			389.2	25R-1, 122–124	A	G																•	•																										
			409.1	26R-CC																		•	•																										

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Appendix E

APPENDIX E. Stratigraphic range and relative abundance of Paleogene Planktonic foraminifer taxa, Hole 749B.

Chrono- Stratigraphy: Epoch	Series	Bio- Stratigraphy: Planktonic foraminifer zones	Depth (mbsf)	Hole 749B: Core, section, interval (cm)	Abundance	Preservation	*N. pachyderma*	*G. euapertura*	*G. juvenilis*	*Ten. gemma*	*Ten. munda*	*G. praebulloides*	*S. angiporoides*	*Gl. suteri*	*Ten. angustiumbilicata*	*G. labiacrassata*
Oligocene	early	*G. euapertura*	0.4	1H-1, 40–44	C	G	Ⓕ	F	R	R	R	F				
			1.9	1H-2, 40–44	C	G	Ⓡ		R	R	R	F				
			3.4	1H-3, 40–44	C	G		R	R		R	R	r	R	R	
			4.9	1H-4, 40–44	C	G		R	R			R		R	R	
			5.8	1H-CC	C	G		R	R			R		R	R	
		G. labiac.	6.2	2H-1, 40–44	C	G		F	R		R	F	r	F	R	R
		Chilog. cubensis	7.7	2H-2, 40–44	A	G		R	R	F	R	R		F		C
			9.2	2H-3, 40–44	A	G			R	R	F			F		C
			10.7	2H-4, 40–44	A	G		R	R	R	R			R		A
			12.2	2H-5, 40–44	A	G		R	R	F	F			F	R	A
		S. angiporoides	13.7	2H-6, 40–44	A	G		R	R	F	F		R	F	R	A
			15.3	2H-CC	A	G		R	R	F	F		R	F	R	A
Eocene	late	*G. suteri*	16.7	3H-1, 40–44	A	G							R	F		
			17.2	3H-2, 40–44	C	G							F	F		
			18.7	3H-3, 40–44	C	G							F	F		
			20.2	3H-4, 40–44	C	G							←s.s. R	R		
			21.7	3H-5, 40–44	C	G							R	R		
			23.2	3H-6, 40–44	A	G							R	R		
			24.8	3H-CC	A	G										
			26.7	4H-2, 40–44	A	G										
			28.2	4H-3, 40–44	A	G								F		
	middle	*Globigerinatheka index*	29.7	4H-4, 40–44	A	G								F		
			31.2	4H-5, 40–44	A	G							F	F		
			34.2	4H-7, 40–44	A	G							s.l.↑ F	R		
			34.3	4H-CC	A	G							F	R		
			34.7	5H-1, 40–44	A	G							F			
			36.2	5H-2, 40–44	A	G							F			
			37.7	5H-3, 40–44	A	G							F			
			39.2	5H-4, 40–44	A	G							F			
			40.7	5H-5, 40–44	A	G							F			
			42.2	5H-6, 40–44	A	G							F			
			43.8	5H-CC	A	G							F			
			44.1	6X-CC	A	G							F			
			53.8	7X-CC	A	G							F			
			72.7	9X-1, 40–44	A	G							R			
			78.3	9X-CC	A	G							R			
			82.4	10X-1, 40–44	A	G										
		Ac. bullbrooki	83.7	10X-2, 40–44	A	G										
			85.2	10X-3, 40–44	A	G										
			86.7	10X-4, 40–44	A	G										
			89.0	10X-CC	A	G										
			91.7	11X-1, 40–44	A	G										
			93.2	11X-2, 40–44	A	G										
			93.5	11X-CC	A	G										
			101.2	12X-1, 40–44	A	G										
	early	*Ac. primitiva*	103.0	12X-CC	A	G										
			110.7	13X-1, 40–44	A	G										
			112.0	13X-CC	A	G										
			119.8	14X-CC	A	G										

Depth (mbsf)	*C. dissimilis*	*C. unicavus*	*Ch. cubensis*	*Cat. echinatus*	*Gl. index*	*Ps. micra*	*Ac. collactea*	*Ten. insolata*	*S. linaperta*	*S. eocaena*	*P. nana*	*S. hagni*	*Gl. turgida*	*Ac. primitiva*	*S. patagonica*
0.4															
1.9															
3.4															
4.9															
5.8	R		R												
6.2	R														
7.7	R	R	C												
9.2			C												
10.7	R		C												
12.2	R		C												
13.7	R		C												
15.3	R		C												
16.7			F	F	A	R	R	R	R						
17.2			C	R	C	R	R	R	F						
18.7			C	R	C	R		R	F		R				
20.2			C	R	C	R		R	R	C	R				
21.7			A		C	R		R	R	C	R				
23.2			A		C	R		R	F	F	R				
24.8			A		C			R	C	F	R	R			
26.7			A		C			R	F	C	R	R			
28.2			A		C				F	C					
29.7			A	F	C		F		R	C					
31.2			A	R	C		F		↓R	C	R				
34.2			A		F		F		↑A	R					
34.3			A		F		F		A	R					
34.7			C		F		F		A	F		F	F		
36.2			C		F	R	F		A	F		F	F		
37.7			C		F	R	F		A	F		F	F		
39.2			C		F		F		A	F		F	F		
40.7			C		F		F		A	F		C	F		
42.2			A		F		F		C	F		C	F		
43.8			A		C		F		C	F		C	F		
44.1			A		C		C		C	F		F	F	F	
53.8			A			F	C		C				R	C	
72.7						F	F		R						
78.3			F		A	R	C							C	
82.4						F	A		F				R	F	
83.7						F	A		R					R	F
85.2						F	A		F					F	F
86.7						F	A		F					F	F
89.0							C		R				R	C	C
91.7							C		R					F	C
93.2							C		R	R				F	C
93.5							C		R					F	F
101.2									F					F	C
103.0													R	F	F
110.7														F	C
112.0														R	F
119.8														F	F

Depth (mbsf)	*Ac. bullbrooki*	*G. higginsi*	*Ps. wilcoxensis*	*G. senni*	*Chilog.* sp. indet.	*Ac. mathewsae*	*S. inaequispira*	*S. frontosa*	*Ac. camerata*	*Ac. cuneicamerata*	*Gl. australiformis*	*Ac. pseudotopilensis*
0.4–44.1												
53.8					R							
72.7					R							
78.3	F											
82.4	F		C		F	F	F	R				
83.7	F		F		R	F		R	C	R		
85.2	F		F		R	F		R	F	R		
86.7	F		F		R	F		R	F	F		
89.0	F	F				F						
91.7	F				F	F			F	F	R	
93.2					F	C		R	F	F	R	
93.5	F	F						R	F	F	R	
101.2	F		R			F			F	C	F	
103.0		F	R			R			F	F	R	
110.7			R		R	R			F	F	R	R
112.0			R	R	R				F		F	
119.8			F							F	F	

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Appendix F

APPENDIX F. Stratigraphic range and relative abundance of Paleogene Planktonic foraminifer taxa, Hole 749C.

Chrono-stratigraphy: Epoch	Chrono-stratigraphy: Series	Bio-stratigraphy: Planktonic foraminifer zones	Depth (mbsf)	Hole 749C: Core, section, interval (cm)	Abundance	Preservation	*S. primitiva*	*Ac. patagonica*	*Ac. pseudotopilensis*	*Ac. wilcoxensis*	*Gl. australiformis*	*Gl. planconicus*	*Chiloguembilica* spp.	*Ac. camerata*	*I. broedermanni*	*S. inaequispira*	*Ac. pentacamerata*	*Ac. soldadoensis*	*Ac. coalingensis*	*Ac. quetra*
Eocene	early	*Ac. primitiva*	150.0	6R-CC	A	G	C	C	F	F	F	R	C	F						
			159.4	7R-1, 40–44	A	G	C	C	F	F	F	R	C	F						
			161.9	7R-2, 40–44	A	G	C	F	R	R	F	R	C	F	F	R				
			163.4	7R-3, 40–44	A	G	C	F	R	R	F	R	C	F	F	R				
			164.0	7R-CC	A	G	C	F	R	F	F	R	C	F			R	R	R	
		Ac. wilcoxensis	169.0	8R-CC	A	G	C		R	F	F	R	R	R	R		R			
			187.9	10R-1, 40–44	A	G	C		F	F	R	R						F	R	F
			188.7	10R—CC	A	G	C		F	F	R	R						F	R	F

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Appendix A

Appendix A. Stratigraphic range and relative abundance of Neogene planktonic foraminifer taxa, Hole 747A.

Chronostratigraphy: Epoch / Series	Biostratigraphy: Planktonic foraminifer zones	Depth (mbsf)	Hole 747A: Core, section, interval (cm)	Abundance	Preservation	*N. pachyderma*	*T. quinqueloba*	*G. bulloides*	*G. uvula*	*G. punctulata*	*G. falconensis*	*G. scitula*	*G. sphericonomiozea*	*G. woodi*	*N. nympha*	*N. continuosa*	*G. conoidea*	*G. miozea*	*G. praescitula*	*P. mayeri*	*G. panda*	*G. zealandica*	*P. semivera*	*P. incognita*	*T. angustiumbilicata*	*G. variabilis*	*G. suteri*	*C. unicavus*	*C. dissimilis*	*G. euapertura*	*G. brazieri*	*G. labiacrassata*	*T. minutissima*	*T. pseudoedita*	*T. clemenciae*	*P. nana*	*G. juvenilis*	*P. siakensis*	*T. munda*	*G. praestainforthi*	*T. gemma*	*S. angiporoides*
Pleistocene	*Neogloboquadrina pachyderma*	1.9	1H-2, 40–44	A	G	A	C	F	F																															
		4.4	1H-4, 40–44	A	G	A		F	C																															
		7.9	1H-6, 40–44	A	G	A	R	R	R	R																														
		9.0	1H-CC	A	G	A	R	F	R	F																														
		10.9	2H-2, 40–44	A	G	A	R	F	R																															
		12.4	2H-4, 40–44	A	G	A	R	R	F																															
		16.9	2H-6, 40–44	A	G	A																																		
		18.5	2H-CC	A	G	A		F		F	C		R																											
		19.1	3H-1, 40–44	A	G	A					R	R																												
		23.4	3H-4, 40–44	A	G	A					C	R	R																											
		26.4	3H-6, 40–44	A	G	C		F			F	C																												
		26.7	3H-CC	A	G	C		F			R	R	R																											
		29.9	4H-3, 40–44	A	G	F		C				F		F																										
		33.9	4H-4, 40–44	A	G	C		F				F		A																										
		35.9	4H-6, 40–44	A	G			F				A		F																										
		37.5	4H-CC	A	G							A				C																								
		40.9	5H-3, 40–44	A	G			F				C		F		F	R																							
		42.4	5H-4, 40–44	A	G						F	F		C		C																								
		45.4	5H-6, 40–44	A	G			A			F	F				C																								
		47.0	5H-CC	A	G			C			R	F				C																								
		48.9	6H-2, 40–44	A	G						F	C		C	F	C																								
		51.9	6H-4, 40–44	A	G						F			A		R	R																							
		54.9	6H-6, 40–44	A	G			F			C			C																										
		56.5	6H-CC	A	G			F			C			C	R																									
		58.4	7H-2, 40–44	A	G									A	F	F																								
		61.4	7H-4, 40–44	A	G			F						C	F	F						R																		
		64.4	7H-6, 40–44	A	G			R							F	F			F			C																		
		66.0	7H-CC	A	G									C	F	F			A																					
		66.4	8H-1, 40–44	A	G									C	F	C			A																					
		67.9	8H-2, 40–44	A	G									C	F	C			F																					
		69.4	8H-3, 40–44	A	G									C	F	C			C			R																		
		73.9	8H-6, 40–44	A	G									C		F			C																					
		75.5	8H-CC	A	G									C		C			C																					
		77.4	9H-2, 40–44	A	G									C		C			C				F																	
		79.9	9H-4, 40–44	A	G									C		C			C				F																	
		82.9	9H-6, 40–44	A	G					F				C		F			C				F	R																
		84.4	9H-8, 40–44	A	G														F				A	R	R															
		85.0	9H-CC	A	G														F				C	F	F															
		85.1	10H-2, 40–44	A	G			C											F				C																	
		89.9	10H-4, 40–44	A	G			A											F				R			F	C	R												
		93.4	10H-6, 40–44	A	G			C											F				C			F	C	R	R												
		94.5	10H-CC	A	G			C											F				C			R	F		R	F										
		94.9	11H-11, 40–44	A	G			C											F				F			R	A		F											
		99.4	11H-4, 40–44	A	G												F		F				F			A			F											
		102.4	11H-6, 40–44	A	G														F				F	R		A			F											
		104.0	11H-CC	A	G														F				F	R		A		R	F											
		104.4	12H-1, 40–44	A	G																					A		R	F											
		105.9	12H-2, 40–44	A	G										F											C		R	F											
		107.4	12H-3, 40–44	A	G																					A		R	F											
		111.9	12H-6, 40–44	A	G										F											C		R	F											
		113.5	12H-CC	A	G										F											C		R	F											
		113.9	13H-1, 40–44	A	G										F											C		R	F											
		116.9	13H-3, 40–44	A	MG										R											C		R	F											
		119.9	13H-5, 40–44	A	M/G																					C		R	F											
		123.0	13H-CC	A	M/G																					C		R	F											
	G. brazieri	124.9	14H-2, 40–44	A	G										R											R		R	F			F	f			R					
		127.9	14H-4, 40–44	A	G																					R		R	F			F	c		R						
		130.9	14H-6, 40–44	A	G																					R		R	F				f		R	F	R	R			
		132.5	14H-CC	A	G																					R		R	F				f		R	F	R	R			
	Globigerina euapertura	132.9	15H-1, 40–44	A	G																					R		R	F				f		R	R	R				
		135.9	15H-3, 40–44	A	G																					R		R	C				r		R	R	R				
		138.9	15H-5, 40–44	A	G																					R		R	F				r		R	F	R				
		141.9	15H-7, 40–44	A	G																					R		R	F							R	R				
		142.0	15H-CC	A	G																					F		R	F							R	R				
		145.4	16H-3, 40–44	A	G																					F		F	F							R	R				
		148.4	16H-5, 40–44	A	G																					F		F	F							R	R				
	G. labiacrassata	151.4	16H-7, 40–44	A	G																					F		F	F							R	R				
		151.5	16H-CC	A	M																					F		F	R							R	R				

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Appendix B

Appendix B. Stratigraphic range and relative abundance of Neogene planktonic foraminifer taxa, Hole 748B.

Chronostratigraphy: Epoch	Chronostratigraphy: Series	Biostratigraphy: Planktonic foraminifer zones	Depth (mbsf)	Hole 748B: Core, section, interval (cm)	Abundance	Preservation	*N. pachyderma*	*T. quinqueloba*	*G. bulloides*	*G. scitula*	*N. continuosa*	*G. uvula*	*N. nympha*	*G. woodi*	*G. praescitula*	*G. zealandica*	*T. angustiumbilicata*	*C. dissimilis*	*A. primitiva*	*P. semivera*	*P. incognita*	*C. unicavus*	*T. cf. pseudoedita*	*G. labiacrassata*	*G. brazieri*	*T. munda*	*T. sp. indet.*	*G. suteri*	*T. gemma*	*G. euapertura*	*A. collactea*	*C. cubensis*	*G. index*	*G. officinalis*	*S. angiporoides*
Pleistocene			0.1	1H-CC	A	G																													
			0.5	2H-1, 40–44	A	G	A	R																												
			2.0	2H-2, 40–44	A	G	A		R																											
			3.5	2H-3, 40–44	A	G	A																													
			4.0	2H-4, 40–44	C	G	C																													
			5.5	2H-5, 40–44	A	G	A																													
			6.0	2H-6, 40–44	C	G	C			F	R																									
			7.5	2H-7, 40–44	R	G	C																													
			9.6	2H-CC	R	G	R																													
			10.0	3H-1, 40–44	C	G	C			F																										
			11.5	3H-2, 40–44	C	G	F			C	R	R	C																							
			13.0	3H-3, 40–44	C	G				C	R	F	C																							
			14.5	3H-4, 40–44	C	G				C	R	F	A																							
			16.0	3H-5, 40–44	C	G				C	R	A	R																							
			17.5	3H-6, 40–44	C	G				C	A	R																								
			19.0	3H-7, 40–44	C	G				C	C	F	F																							
			19.1	3H-CC	C	G				C	F	F	F																							
			19.5	4H-1, 40–44	C	G				C	C	F	R																							
			21.0	4H-2, 40–44	C	G				C	A	F	F																							
			22.5	4H-3, 40–44	C	G				C	A	F	F																							
			24.0	4H-4, 40–44							A		A																							
			25.5	4H-5, 40–44	C	G					A		F																							
			27.0	4H-6, 40–44	C	G			R		A	R	C																							
			28.5	4H-7, 40–44	C	G					A	R	A																							
			28.6	4H-CC	C	G					C		C																							
			29.0	5H-1, 40–44	C	G					A		R																							
			30.5	5H-2, 40–44	C	G					A	R	R																							
			32.0	5H-3, 40–44	C	G					A	R	C																							
			33.5	5H-4, 40–44	C	G					A	R	C																							
			35.0	5H-5, 40–44	F	G					A	R	C																							
			36.5	5H-6, 40–44	C	G					A	C	C	R																						
			38.0	5H-7, 40–44	C	G					A	F	R	R																						
			38.1	5H-CC	C	G					A	C	C	R																						
			38.5	6H-1, 40–44	A	G					R	C	C	R																						
			40.0	6H-2, 40–44	A	G						A	R	R																						
			41.5	6H-3, 40–44	A	G							R	R																						
			43.0	6H-4, 40–44	A	G							C	R																						
			44.5	6H-5, 40–44	A	G							R	R																						
			46.0	6H-6, 40–44	A	G							R																							
			47.5	6H-7, 40–44	A	G								R																						
			47.6	6H-CC	A	G								R																						
			48.0	7H-1, 40–44	A	G								R																						
			49.5	7H-2, 40–44	A	G								R																						
			51.0	7H-3, 40–44	A	G								R																						
			52.5	7H-4, 40–44	A	G								F																						
			54.0	7H-5, 40–44	A	G								F																						
			55.5	7H-6, 40–44	A	G								F																						
			57.1	7H-CC	A	G								F																						
			57.5	8H-1, 40–44	A	G							R	F																						
			59.0	8H-2, 40–44	A	G								F																						
			60.5	8H-3, 40–44	A	G														R																
			62.0	8H-4, 40–44	A	G														R																
			63.5	8H-5, 40–44	A	G														R																
			65.0	8H-6, 40–44	A	G														R																
			66.5	8H-7, 40–44	A	G														R																
			66.6	8H-CC	A	G														R																
			67.0	9H-1, 40–44	A	G														R																
			68.5	9H-2, 40–44	A	G														R																
			70.0	9H-3, 40–44	A	G														R																
			71.5	9H-4, 40–44	A	G														R																
			73.0	9H-5, 40–44	A	G														R																
			74.5	9H-6, 40–44	A	G														F																

Appendix B (continued).

Chronostratigraphy: Epoch	Chronostratigraphy: Series	Biostratigraphy: Planktonic foraminifer zones	Depth (mbsf)	Hole 748B: Core, section, interval (cm)	Abundance	Preservation	*N. pachyderma*	*T. quinqueloba*	*G. bulloides*	*G. scitula*	*N. continuosa*	*G. uvula*	*N. nympha*	*G. woodi*	*G. praescitula*	*G. zealandica*	*T. angustiumbilicata*	*C. dissimilis*	*A. primitiva*	*P. semivera*	*P. incognita*	*C. unicavus*	*T. cf. pseudoedita*	*G. labiacrassata*	*G. brazieri*	*T. munda*	*T.* sp. indet.	*G. suteri*	*T. gemma*	*G. euapertura*	*A. collactea*	*C. cubensis*	*G. index*	*G. officinalis*	*S. angiporoides*
Oligocene	late	*Globigerina euapertura*	76.0	9H-7, 40–44	A	G													[F]			F				F	C		F	F	[R]				
			76.1	9H-CC	A	G																F				F	C	—	F	F		[R]			
			76.5	10H-1, 40–44	A	G												C	[F]			C				F	C	C	F					C	
			78.0	10H-2, 40–44	A	G																F				F	C	C	F		[R]			C	c
			79.5	10H-3, 40–44	A	G																R				F	C	C	F					C	c
			81.0	10H-4, 40–44	A	G																				R	F	A	R	F				F	
			82.5	10H-5, 40–44	A	G												F	[F]					F		R	F	C	R	F	[R]		[R]	R	f
		Globigerina labiacras.	83.9	10H-6, 40–44	A	G												R	[R]					F		R	F	C		C	[R]			R	
	early	*Chiloguembelina cubensis*	85.6	10H-CC	A	G												R								R	F	C		C	[R]	F	[R]	R	
			86.9	11H-1, 40–44	A	G																F		F		F	F	A	F	F	[R]	F		F	
			87.5	11H-2, 40–44	A	G												R				F		F		F	F	A	F	F	[R]	R		F	r
			89.4	11H-3, 40–44	A	G												R	[F]			F		F		F	F	C		R	[R]	C		R	
			90.5	11H-4, 40–44	A	G													[F]			R		F		F	F	C		R	[R]	C		R	
			92.0	11H-5, 40–44	A	G													[R]			F		C		F	F	F				R			
			93.9	11H-6, 40–44	A	G												R	[F]			R		A		F	F	R			[R]	F	[R]		
			95.1	11H-CC	A	G												R				R		C		R	F			R	[F]				
			95.5	12H-1, 40–44	A	G												R	[R]			F		C		R	F	C	F						
			97.4	12H-2, 40–44	A	G												F	[R]			F		C		F	C	C	F	F	[R]	F	[F]	R	

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Appendix C

Appendix C. Stratigraphic range and relative abundance of Neogene planktonic foraminifer taxa, Hole 751A.

Chronostratigraphy: Epoch / Series	Biostratigraphy: Planktonic foraminifer zones	Depth (mbsf)	Hole 751A: Core, section, interval (cm)	Abundance	Preservation	*N. pachyderma*	*G. bulloides*	*N. nympha*	*N. continuosa*	*Gl. scitula*	*Globoturborotalita* sp. indet.	*G. woodi*	*Neogloboquadrina* sp.	*G. uvula*	*P. siakensis*	*G. zealandica*	*G. praescitula*	*G. miozea*	*Globigerina* cf. *labiacrassata*	*Gl. suteri*	*G. brazieri*	*P. incognita*	*Globoturborotalita* sp.	*P. semivera*	*Globigerina* sp.	*Cat. dissimilis*	*Cat. unicavus*
Pleistocene		0.3	1H-1, 32–36	A	G	A																					
		1.8	1H-2, 32–36	A	G	A																					
		3.3	1H-3, 34–36	A	G	A																					
		4.7	1H-CC	A	G	A																					
		6.6	2H-1, 76–80	A	G	A																					
		8.1	2H-2, 76–80	A	G	A																					
		9.6	2H-3, 32–38	A	G	A	R																				
		10.7	2H-4, 32–38	R	G	A																					
		11.3	2H-CC	R	G	A																					
		15.0	3H-1, 76–80	R	G	A																					
		16.1	3H-2, 32–36	R	G	A																					
		17.6	3H-3, 32–36	R	G	A																					
		19.1	3H-4, 32–36	R	G	A																					
		20.6	3H-5, 32–36	R	G	A																					
		21.9	3H-CC	F	G	A																					
		26.0	4H-2, 76–80	B	G																						
		27.1	4H-3, 32–36	B	G																						
		28.6	4H-4, 32–36	B	G																						
		30.1	4H-5, 32–36	B	G																						
		31.6	4H-6, 32–36	B	G																						
		33.2	4H-CC	R	G																						
		33.5	5H-1, 32–36	B																							
		35.0	5H-2, 32–36	B																							
		36.5	5H-3, 32–36	B																							
		38.0	5H-4, 32–36	B																							
		39.3	5H-5, 18–22	B	C																						
		40.8	5H-6, 18–22	A	G	F	A																				
?	?	42.7	5H-CC	A	G	A	F																				
		43.3	6H-1, 54–60	C	G	C	F			R	R																
		44.5	6H-2, 18–22	C	G	C	R			R	R																
		46.0	6H-3, 18–22	F	G		C				C																
		47.5	6H-4, 18–22	A	G		A				R																
		49.0	6H-5, 18–22	A	G		A				F																
		50.5	6H-6, 18–22	A	G		A				F																
		52.2	6H-CC	A	G		A																				
		53.5	7H-1, 130–134	R	G		R																				
		54.0	7H-2, 32–36	R	G		R																				
		55.5	7H-3, 32–36	R	G						R																
		57.6	7H-4, 90–94	R	G							F															
		58.5	7H-5, 32–36	F	G							R	R														
		60.0	7H-6, 32–36	F	G		R				F		R	R													
		61.0	7H-7, 32–36	A	G		R				F		A	A													
		61.3	7H-CC	C	G		R				F		A	R													
		64.5	8H-2, 130–132	C	G		R						C														
		65.0	8H-3, 32–36	C	G		C						F	R													
		66.5	8H-4, 32–36	C	G		F						C														
		68.0	8H-5, 32–36	R	G		R						R														
		69.6	8H-6, 32–36	R	G		R						R	R													
		71.2	8H-CC	R	G								R	R													
		71.9	9H-1, 32–36	R	G																						
		73.0	9H-2, 32–36	F	G		R						A	R													
		74.5	9H-3, 32–36	F	G		R						R														
		76.0	9H-4, 32–36	R	G		R						A														
		77.9	9H-5, 76–80	C	G		F						A	F													
		80.0	9H-6, 130–134	C	G		F						A	R													
		80.7	9H-CC	R	G					R			A														
		81.0	10H-1, 32–36	C	G		R						C	R													
		82.5	10H-2, 32–36	F	G		R			R			F	R													
		84.0	10H-3, 32–36	F	G		R						F														
		85.5	10H-4, 32–36	F	G		R						F														
		87.0	10H-5, 32–36	F	G		R						F														
		88.5	10H-6, 32–36	F	G		R						F														
		90.2	10H-CC	R	G					R			R														

Pliocene: early-late; Miocene: late, middle

Planktonic foraminifer zones: *Neogloboquadrina pachyderma*; *Globorotalia scitula*; *Neogloboquadrina nympha*

Appendix C (continued).

Chronostratigraphy: Epoch	Chronostratigraphy: Series	Biostratigraphy: Planktonic foraminifer zones	Depth (mbsf)	Hole 751A: Core, section, interval (cm)	Abundance	Preservation	N. pachyderma	G. bulloides	N. nympha	N. continuosa	Gl. scitula	Globoturborotalita sp. indet.	G. woodi	Neogloboquadrina sp.	G. uvula	P. siakensis	G. zealandica	G. praescitula	G. miozea	Globigerina cf. labiacrassata	Gl. suteri	G. brazieri	P. incognita	Globoturborotalita sp.	P. semivera	Globigerina sp.	Cat. dissimilis	Cat. unicavus
Miocene	middle	Neogloboquadrina nympha	90.5	11H-1, 32–36	R	C		R					R															
			92.0	11H-2, 32–36	R	G		R					R															
			93.5	11H-3, 32–36	B	G																						
			96.5	11H-5, 32–36	F	G				R	F		R		R													
			98.0	11H-6, 32–36	A	G		R		R	C		F		F	R												
			99.7	11H-CC	F	G				R	F																	
			100.0	12H-1, 32–36	F	G					R		A															
			101.5	12H-2, 32–36	C	G					R		A															
			103.0	12H-3, 32–36	F	G					R		A															
			106.0	12H-5, 32–36	F	G					R		R															
			107.5	12H-6, 32–36	F	G				R	R		R															
			109.0	12H-7, 32–36	F	G				R	R		R					[R]										
		Globorotalia miozea	109.2	12H-CC	C	G				R			R					C	R									
			109.5	13H-1, 32–36	C	G							F					C	F									
			111.0	13H-2, 32–36	C	G							R					C	F									
			112.5	13H-3, 32–36	F	M/P							R															
			114.0	13H-4, 32–36	B																							
			114.1	13H-4, 32–36	F	G							R					F	R									
			115.5	13H-5, 32–36	F	G							F					C	r									
			117.0	13H-6, 32–36	F	G							C					F	F									
			118.7	13H-CC	F	G							C					F	F									
			119.0	14H-1, 32–36	F	G							F					C	R									
			120.5	14H-2, 32–36	A	G							C					C	R									
			122.0	14H-3, 32–36	C	G							C					C	R									
	early	Globorotalia praescitula	123.5	14H-4, 32–36	C	G							C				C											
			125.0	14H-5, 32–36	C	G							F				A											
			126.5	14H-6, 32–36	B																							
			128.0	14H-7, 32–36	B																							
			128.2	14H-CC	B																							
			128.5	15H-1, 32–36	C	G											A	F										
			130.0	15H-2, 32–36	C	G											A	R										
			131.5	15H-3, 32–36	R	G							R				A	R										
			133.0	15H-4, 32–36	C	G							F				F	A										
			134.5	15H-5, 32–36	A	G											R	F		A	R	F						
			136.0	15H-6, 32–36	C	G											F	R		A	R	F						
			137.5	15H-7, 32–36	C	G											F	R		A	R	F						
			137.7	15H-CC	C	G											F	R		A	R	F						
			138.0	16H-1, 32–36	B																							
			138.5	16H-2, 32–36	R	G												A			A							
			141.0	16H-3, 32–36	R	G											F	F			A							
			142.5	16H-4, 32–36	R	G											R	F			A							
			144.0	16H-5, 32–36	F	G											R	F			C							
			145.5	16H-6, 32–36	F	G											R	F			A							
			147.0	16H-7, 32–36	F	G											R	F			A							
			147.2	16H-CC	F	G											R	F			A							
			147.5	17H-1, 32–36	A	G															C		A		R			
			149.0	17H-2, 32–36	A	G												R			F		A	F	R			
			150.5	17H-3, 32–36	A	G												R			F		A	F	R			
			153.0	17H-4, 32–36	A	G												R		R	F		A	F	R			
			153.5	17H-5, 32–36	A	G												R		R	F	R	A	F	R	R		
			155.0	17H-6, 32–36	A	G												R		R	F	R	A	F	R	R	R	
			156.5	17H-7, 32–36	A	G															R	R	A		F	R	F	
		Paragloborotalia incognita	156.7	17H-CC	A	G														R	R	R	A		F	R	F	R
			157.0	18H-1, 32–36	A	G														R	R	R	A		R	R	F	R
			158.5	18H-2, 32–36	A	G														R	F	R	A		R	R	R	R
			160.0	18H-3, 32–36	A	G														F	F	F	A		R	R	R	R
		G. brazieri	161.5	18H-4, 32–36	A	G														F	F	F			R	R	R	R
			163.0	18H-5, 32–36	A	G														F	F	F				R	C	F
			164.5	18H-6, 32–36	A	G														C	F	F				R	F	F
			166.0	18H-7, 32–36	C	G														C	F	C				R	F	F
			166.2	18H-CC	C	G														C	F	C				R	F	F

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Table 1

Table 1. Counts and ranges of Neogene benthic foraminifers, Site 747.

	Miocene early															middle								late
					V	V	V	V	V	V	V	V	I	I	I	I	I	I	I	I	I	I	I	III
	A-14H	A-14H	A-13H	A-13H	A-13H	A-12H	A-12H	A-12H	A-11H	A-11H	A-11H	A-10H	A-10H	A-10H	A-9H	A-9H	A-9H	A-8H	A-8H	A-8H	A-7H	A-7H	A-7H	A-7H
	5	2	CC	5	2	CC	5	2	CC	5	2	CC	4	2	CC	5	3	CC	4	2	CC	4	2	
	72-76	72-76		72-76	72-76		72-76	72-76		72-76	72-76		72-76	72-76		72-76	72-76		72-76	72-76		72-76	72-76	
	129 72	125 22	123 00	120 22	115 72	113 50	110 72	106 22	104 00	101 22	96 72	94 50	90 22	87 22	85 00	80 81	77 81	75 50	71 22	68 22	66 00	61 72	58 72	
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	10	9		8	1	12	7	1	9	8	2	4	12	2	12	8	1	28	13	3	12	8	
21	1	-	13	24		31	59		14	20		1	2		2	10	-	12	25	5	24	55	
	-	-	-	-		-	-		-	-		-	-		-	-		-	-		-	-	
13	4	1	6	6		6	7		3	4		4	6	2	2	2		4	13	1	-	9	
	-	-	-	24	-	-	3		-	3			2	-	11	31		-	-	-	1	-	
									1	8			14										
						2	2					1	8		3			1					
																					1	2	
26	14	14	1	21	3	14	40	11	30	26	22	16	17	-	17	44	3	13	2	4	2	2	
7	5	5	5	4		3	2		2	5		1	5	1	4	1		4	5	1	16	10	
				3			4								2	1		2	1		1	-	
15	4	4	5	9	1	10	3	2	2	3	5	6	5	1	2	2		8	6	4	10	9	
8	5	2	4	9	2	3	5	1	5	1	4	1	2	-	3	5		8	3	2	9	2	
1		1	2	2	3	2	3		1		1	2	3	1		4		3				1	
																						-	
		11	-		15			14			9			7	16	-	5	-	-	10	-	-	
		1			8			2				-		1			1	-			-	-	
18	9	4	11	4	5	10	15		13	11	8	9	14	3	7	10	2	10	15		10	17	
10	2	7			2		4	13	3	3		1	6		7	2	20	4	3	5	12	9	
														2								-	
	1	2	1	10		5		1	1													1	
	1	5	1		4				1	1	2		1	1		3						-	
5	1			1			1		7			2	1		2				2		8	5	
2	1		1																1		1	-	
13	5		3	15		11	8		6	20		15	18			10		7	7		15	32	
2	1		1		2	1		1			2		1	1				2		2	3	2	
2																						-	
2			1	1		1	2		1	1	1	1	1		2	4		5			5	5	
1	7	10	2	9		17	1			2		6	9		2	3		2				-	
2			1			2	1			1	1	1								1	1		
6	5	1	1	4	1	6	3	3	4	7	5	4	6	3		3	1	4	2	10	7	2	
																						-	
24	10	12	13	19	9	19	6	7	10	9	41	8	8	9	9	17	34	20	10	5	6	4	
					1																	-	
	1																					-	
2	3	2	2					9														-	
42	28	21	15	11		29	32	7	33	26	17	29	20	12	11	43	5	49	43	33	49	58	
66	77	41	108	27	12	50	20	2	35	67	11	32	40	14	48	45	3	88	71	14	111	81	
1									2					2	2		1	1		2	2	1	
																						-	
										1	1								2			-	
11	8		8	11		7	2		16	10		4	3		2	10		5	7		3	6	
					2												2			13		-	
19	23		7																		14	19	
									5	5	30	20	24	20	15	26	3	3	5	5		-	
		2																				-	
4	1	3	6	3	1	2	2	1	1	1	3	2			1	2		3	1		1	-	
8	6		8	5		9	3		9	6		5	6		9	1		4	3		8	9	
					2			1														1	
	1		1			3						1	2	2				1	2			-	
	1		1															2	1		2	-	
			1			4	2											1				-	
55	59	12	37	157	39	97	81	17	36	94	29	69	33	17	67	55	5	52	99	27	236	3	
																						-	
3	1		1		1		1			1					1							-	
													1		1						1	-	
2											1			6			3			11		-	
4			1				3		3	1			1			1		2			1	4	
6	3				4	4	3			5		3	6		1	-		6	5			-	
1			1			1	1		1	1					2	2		2	2	1	1	5	
		1				1	3		4			3			3	2		1				-	
10	4			1					1	2		1	2					1	2		22	-	
														1			3			13	4	12	
2	8			7		9	5	1	4	1		2	8						1		2	-	
3	2		1				1		4			3	3		6	3		-	-		2	-	
												1	5			4		5			2	-	
										2											1	-	
													1		4	18			6			-	
										2		7	5		5	4			4			-	
				8	27	16	46	1	47	21	43	19	16	2			1	5	4			-	
1																			1			-	
																			1			-	
		2						4	1					4	1	5	2	15	1			-	
4	2	1	1	5				3	1													-	
-																		2				-	
						1				2		1	2		4	1		1				-	
	1		1	1		2							1					2				-	
														2			2					-	
			3	4													1					-	
1	1											6	1		7	3						-	
3	6		2	7		3	2		2	3		1	4		6	2						-	
11	7				2	2	16	8	24				1		1							-	
				3	1			2				1										-	
										1												-	
						1	1															-	
						3																-	
		8																				-	
		1																				-	
1																						-	
1																						-	
3				2						1		1	1		1				2			-	
445	329	183	277	479	148	396	401	112	342	386	238	294	327	116	303	390	99	388	371	172	612	374	
46	39	27	37	34	24	36	39	23	37	39	21	39	44	24	40	38	21	40	36	22	37	29	

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Table 2

Table 2. Counts and ranges of Neogene benthic foraminifers, Site 748.

Miocene early								middle			late					Pliocene early						late
	V	V	V	V	V	V	I	VI	VI	VI	VI	VI	VI	VI	VI	VI	VII	VII	VII	VII	VII	II
B-8H	B-8H	B-7H	B-7H	B-7H	B-6H	B-6H	B-6H	B-5H	B-5H	B-5H	B-4H	B-4H	B-4H	B-3H	B-3H	B-3H	B-2H	B-2H	B-2H	B-2H	B-2H	B-2H
5	2	CC	5	2	CC	5	2	CC	5	3	CC	5	2	CC	5	2	CC	6	6	5	5	4
72-76	72-76		72-76	72-76		72-76	72-76		72-76	72-76		72-76	72-76		72-76	72-76		144-148	72-76	144-148	72-76	144-148
63.82	59.32	57.10	54.32	49.82	47.60	44.82	40.32	38.10	35.32	32.32	28.60	25.82	21.32	19.10	16.32	11.82	9.60	9.04	8.32	7.54	6.82	6.04
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3	3	-	-	2	-	1	1	-	-	-	-	-	-	-	-	-	-	20	7	-	-	16
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3	-	-	-	2	-	1	1	1	4	-	1	3	3	1	3	1	-	11	-	1	-	5
16	38	3	8	11	9	8	3	2	-	-	1	-	-	2	-	1	3	-	-	-	-	-
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6	5	1	2	-	-	4	7	12	9	1	-	1	19	-	-	5	25	18	5	-	-	3
16	15	6	17	21	2	15	10	4	6	3	4	2	7	1	11	-	14	36	5	-	-	13
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5	3	-	1	2	-	-	-	-	1	2	1	3	3	3	2	2	4	29	1	-	1	9
-	14	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-
5	11	-	1	5	1	1	-	-	8	1	-	-	2	-	-	-	10	27	10	1	-	6
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7	7	-	2	5	-	9	14	-	7	12	-	16	14	-	8	3	-	3	-	1	-	2
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5	3	1	-	2	-	-	-	-	-	-	1	1	-	-	-	-	-	5	1	-	-	1
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9	2	5	1	3	1	1	1	-	-	1	-	-	4	1	-	1	9	-	-	-	-	4
-	18	-	9	22	-	12	3	-	5	10	-	5	-	-	1	1	-	29	-	-	-	7
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4	107	46	49	177	36	80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	46	15	16	33	15	38	26	21	18	1	-	2	43	7	19	24	-	2	-	2	-	5
61	84	10	11	29	-	30	10	24	3	1	10	8	7	6	-	7	-	-	-	-	-	3
9	-	-	-	-	-	-	-	-	5	2	-	5	10	-	1	-	-	-	-	-	-	2
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2	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	9	-	-	-	1	-
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7	6	42	186	263	19	134	89	1	1	-	-	-	2	-	2	-	-	-	-	-	-	-
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1	3	-	-	3	-	1	-	-	1	2	-	2	2	-	-	-	-	-	-	-	-	-
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6	21	-	1	4	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	2	2	-	-	2	2	-	3	1	-	2	-	-	2	1	-	3	1	-	3	-	-
197	450	150	317	635	117	393	196	150	85	49	61	79	203	33	77	57	108	233	36	12	4	177
29	31	17	21	30	19	30	18	19	20	19	17	21	28	13	17	15	16	17	13	7	4	21

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Table 3

Table 3. Counts and ranges of Neogene benthic foraminifers, Site 751.

Miocene																														
early																														
V	V	V	V	V	V	V	V	V	V	V	V	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I	I
A-19H CC 166.20	A-18H 5 36-40 163.06	A-18H 2 36-40 158.56	A-17H CC 156.70	A-17H 5 36-41 153.56	A-17H 2 36-40 149.06	A-16H CC 147.20	A-16H 5 36-40 144.06	A-16H 2 36-40 138.06	A-15H CC 137.70	A-15H 5 36-40 134.56	A-15H 2 36-40 130.06	A-14H CC 128.20	A-14H 5 36-40 125.06	A-14H 2 36-40 120.56	A-13H CC 118.70	A-13H 6 65-69 117.35	A-13H 4 65-69 114.35	A-13H 2 65-69 111.35	A-12H CC 109.20	A-12H 6 72-76 107.92	A-12H 4 72-76 104.92	A-12H 2 72-76 101.92	A-11H CC 99.70
164	326	264	90	301	321	151	420	539	106	375	348	224	507	402	246	523	484	536	47	427	332	253	40
33	36	29	20	30	27	25	31	39	27	39	35	30	36	44	33	39	37	33	12	32	27	28	14

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Appendix B

Appendix B. Varimax principal component loadings with communalities.

Hole, core, section	Depth (mbsf)	Comm.	PC I	PC II	PC III	PC IV	PC V	PC VI	PC VII	PC VIII
751A-1H-1	0.00	0.9673	-0.0213	-0.2620	0.0121	0.0042	-0.0190	0.0191	0.0100	-0.9472
751A-1H-[illegible]	0.36	0.9772	-0.0177	-0.0101	-0.0161	-0.0635	0.0022	0.0522	0.0662	-0.9825
751A-1[illegible]-1	0.72	0.9574	-0.0283	-0.3778	0.0239	0.0287	-0.0157	-0.0333	-0.0500	-0.8992
751A-1H-1	1.08	0.9413	-0.0240	-0.9566	-0.0247	-0.0258	-0.0064	-0.0283	0.1374	-0.0676
751A-1H-1	1.44	0.9588	-0.0213	-0.9732	0.0051	0.0206	-0.0059	0.0018	-0.0184	-0.1021
751A-1H-2	1.86	0.9624	-0.0275	-0.9671	0.0151	-0.0306	-0.0176	-0.0131	0.0341	-0.1538
751A-1H-2	2.00	0.3879	-0.0563	-0.3504	-0.0393	-0.0319	0.0515	0.0050	0.1169	-0.4930
751A-1H-2	2.32	0.9618	-0.0203	-0.6029	0.0267	0.0394	-0.0167	-0.0231	-0.0778	-0.7674
751A-1H-2	2.80	0.9737	-0.0086	-0.9860	0.0136	0.0137	-0.0120	0.0162	-0.0203	-0.0170
751A-1H-3	3.36	0.3624	-0.0063	-0.5564	0.0013	-0.0684	-0.0347	0.0757	0.1978	-0.0453
751A-1H-3	4.00	0.9713	-0.0108	-0.9835	0.0116	0.0259	-0.0134	-0.0187	-0.0485	-0.0110
751A-1H-4	4.53	0.7471	-0.0144	-0.7600	-0.0351	-0.1577	-0.0221	0.0208	0.3735	-0.0522
751A-1H-CC	4.70	0.8290	-0.0079	-0.8742	-0.0309	-0.0608	0.0243	0.2067	0.1006	-0.0820
751A-2H-1	5.42	0.9460	0.0149	-0.9676	0.0138	-0.0294	-0.0036	0.0783	-0.0456	0.0130
751A-2H-1	6.14	0.9743	-0.0015	-0.9840	-0.0002	-0.0382	-0.0125	0.0139	0.0649	0.0005
751A-2H-2	6.56	0.9152	0.0329	-0.5159	-0.0506	-0.7997	0.0079	0.0156	0.0743	-0.0070
751A-2H-2	7.28	0.9574	0.0231	-0.1762	-0.1245	-0.9325	-0.0073	-0.1426	0.1408	-0.0240
751A-2H-3	8.06	0.9350	0.0108	-0.7753	-0.0814	-0.5068	-0.0103	-0.0494	0.2598	-0.0191
751A-2H-3	8.78	0.9530	0.0118	-0.0430	-0.0913	-0.9567	-0.0032	-0.1538	0.0568	-0.0248
751A-3H-4	19.42	0.5773	0.0159	-0.1264	-0.0631	-0.1696	-0.0514	0.1099	0.7159	0.0334
751A-3H-5	20.92	0.8414	0.0178	-0.1129	-0.1224	-0.3710	-0.0404	0.1089	0.8138	-0.0046
751A-4H-5	30.42	0.8447	0.0473	-0.0432	-0.0798	-0.8753	0.0213	0.2052	0.1563	-0.0317
751A-5H-5	39.92	0.0156	-0.0604	0.0313	-0.0066	0.0216	0.0975	-0.0239	-0.0149	0.0111
751A-5H-5	40.28	0.8076	0.0454	-0.0133	-0.1377	-0.8641	0.0090	0.0419	0.1940	0.0134
751A-5H-5	40.64	0.8666	0.0882	-0.0176	-0.2258	-0.8465	0.0230	0.2521	0.1637	-0.0065
751A-5H-6	40.70	0.9124	0.0835	-0.0024	-0.3388	-0.8823	0.0269	0.0524	0.0914	-0.0183
751A-5H-CC	42.70	0.8655	0.1811	-0.0024	-0.8968	-0.1451	-0.0139	-0.0233	0.0781	0.0237
751A-6H-1	43.42	0.9058	0.1931	-0.0139	-0.9308	-0.0047	0.0108	0.0315	0.0252	0.0084
751A-6H-3	46.42	0.7500	0.1804	-0.0132	-0.7890	-0.0664	-0.0072	0.0894	0.2859	0.0255
751A-7H-5	58.92	0.9083	0.1695	-0.0250	-0.9287	0.0002	0.0282	0.0536	0.1039	-0.0437
751A-8H-2	64.28	0.9026	0.1979	-0.0341	-0.8920	-0.0661	0.0295	0.2290	0.0929	-0.0191
751A-8H-4	66.92	0.8177	0.1784	-0.0216	-0.8293	-0.2509	0.0234	-0.0224	0.1803	-0.0354
751A-8H-CC	71.20	0.9571	0.9499	0.0027	-0.1628	0.0439	-0.0503	-0.1232	0.0932	0.0063
751A-9H-1	71.92	0.8649	0.1409	-0.0416	-0.6241	[illegible]	-0.0110	0.0127	0.4605	-0.0034
751A-9H-3	74.92	0.9163	0.7582	-0.0210	-0.4500	[illegible]	-0.0335	-0.0237	0.3614	-0.0253
751A-9H-5	77.92	0.8623	0.8132	0.0068	-0.1761	0.1377	-0.0321	0.0524	0.3835	0.0163
751A-9H-CC	80.70	0.7863	0.1319	0.0326	-0.8704	-0.0414	0.0447	-0.0771	0.0186	0.0116
751A-9H-7	80.92	0.6783	0.0962	0.0170	-0.7807	0.0619	-0.0052	-0.0821	0.2201	0.0153
751A-10H-2	82.92	0.7898	0.1007	-0.0176	-0.5679	0.0143	-0.0175	0.0086	0.6755	0.0075
751A-10H-4	85.92	0.9325	0.1447	-0.0186	-0.8838	0.0212	-0.0054	-0.0121	0.3598	-0.0073
751A-10H-6	88.92	0.5695	0.0626	-0.0001	-0.6527	-0.1457	0.0376	-0.1139	0.3170	-0.0585
751A-10H-CC	90.20	0.8556	0.1653	0.0187	-0.9048	0.0918	0.0247	0.0129	0.0092	-0.0062
751A-11H-2	92.42	0.6236	0.1274	0.0357	-0.7146	0.0976	0.0438	0.0057	0.2897	-0.0037
751A-11H-4	95.42	0.9551	0.9574	0.0186	0.0143	-0.0650	-0.0616	-0.1602	0.0652	-0.0075
751A-11H-6	98.42	0.9160	0.5440	0.0146	-0.6841	-0.3358	-0.0334	-0.1640	0.1049	0.0082
751A-11H-CC	99.70	0.6968	0.1329	0.0079	-0.7907	0.0079	0.0346	0.0752	0.2159	0.0205
751A-12H-2	101.92	0.9235	0.1790	-0.0381	-0.8412	-0.3339	0.0199	0.0891	0.2471	-0.0400
751A-12H-4	104.92	0.9731	0.9552	0.0046	-0.1755	-0.0383	-0.0362	-0.0573	0.1543	0.0037
751A-12H-6	107.92	0.9316	0.8482	0.0263	-0.4125	-0.1553	-0.0344	-0.1021	0.0746	-0.0027
751A-12H-CC	109.20	0.9022	0.8406	0.0238	-0.4060	0.0918	-0.0191	-0.0570	0.1324	0.0244
751A-13H-2	111.35	0.9525	0.4231	0.0063	-0.7968	-0.1086	0.0256	0.3042	-0.1830	0.0007
751A-13H-4	114.35	0.7498	0.5930	-0.0032	-0.3980	-0.1021	0.0075	0.4661	0.1091	0.0033
751A-13H-6	117.35	0.9465	0.8953	-0.0059	-0.2980	-0.0284	-0.0197	0.2321	-0.0316	-0.0048
751A-13H-CC	118.70	0.8801	0.8307	0.0132	-0.2820	-0.0215	-0.0139	0.3273	-0.0501	0.0096
751A-14H-2	120.56	0.8213	0.8220	0.0018	-0.3307	-0.0156	-0.0414	0.1817	-0.0218	0.0276
751A-14H-5	125.06	0.9497	0.9576	0.0173	-0.1219	-0.0555	-0.0161	-0.0143	0.1178	-0.0022
751A-14H-CC	128.20	0.8902	0.8930	0.0125	-0.0554	0.0092	0.0042	0.2867	0.0848	0.0029
751A-15H-2	130.06	0.9417	0.8678	0.0013	-0.3856	0.0327	-0.0007	0.1965	-0.0144	0.0035
751A-15H-5	134.56	0.9254	0.8861	0.0265	-0.3294	0.0693	0.1587	-0.0292	0.0065	0.0057
751A-15H-CC	137.70	0.7107	0.6028	0.0286	-0.1445	0.0526	0.5250	0.1178	0.1783	0.0392
751A-16H-2	139.56	0.9422	0.4116	0.0155	-0.8594	0.0707	0.1569	-0.0008	0.0657	0.0022
751A-16H-5	144.06	0.9600	0.7929	0.0157	-0.5699	0.0627	0.0333	-0.0261	0.0207	-0.0130
751A-16H-CC	147.20	0.8749	0.6655	0.0351	-0.1322	0.0380	0.6316	0.0002	0.1095	0.0306
751A-17H-2	149.06	0.9528	0.9183	0.0124	-0.1088	-0.0665	0.2830	-0.1068	0.0405	-0.0073
751A-17H-5	153.56	0.9424	0.7416	0.0056	-0.2430	-0.0082	0.5759	0.0147	0.0332	0.0179
751A-17H-CC	156.70	0.9511	0.2925	0.0104	0.0863	0.0230	0.9221	-0.0351	0.0755	0.0188
751A-18H-2	158.56	0.9700	0.6863	0.0042	-0.1460	-0.2291	0.6509	-0.0203	-0.0329	0.0035
751A-18H-5	163.06	0.9584	0.8350	-0.0115	-0.2992	0.0391	0.4094	-0.0455	0.0183	0.0017
751A-18H-CC	166.20	0.9252	0.6183	0.0073	-0.2819	0.0120	0.6310	0.2237	0.1223	0.0103
747A-1H-1	0.25	0.9562	-0.0246	-0.7698	0.0105	-0.1843	-0.0274	-0.0661	0.0078	-0.5690
747A-1H-2	2.22	0.9332	-0.0106	-0.9088	-0.0190	-0.2493	-0.0220	-0.0533	0.0573	-0.1948
747A-1H-4	5.22	0.9579	-0.0193	-0.0931	0.0157	-0.0095	-0.0120	-0.0051	0.0022	-0.9738
747A-1H-CC	9.00	0.9335	0.0025	-0.9633	0.0160	0.0137	-0.0175	-0.0296	-0.0583	0.0245
747A-2H-2	11.22	0.6828	0.0690	-0.4186	-0.0404	-0.2696	0.0465	0.5920	0.2747	-0.0182
747A-2H-4	14.22	0.8516	0.0290	-0.8557	0.0061	-0.1058	0.0130	0.3154	0.0878	0.0023
747A-2H-CC	18.50	0.8938	0.0425	-0.1048	-0.0386	-0.9303	0.0145	0.1167	-0.0066	0.0122
747A-3H-1	19.22	0.8882	0.0467	-0.0230	-0.0707	-0.9341	0.0103	0.0693	0.0536	-0.0161
747A-3H-4	23.72	0.8285	0.0572	-0.0248	-0.1370	-0.8492	0.0190	0.2783	0.0832	-0.0066
747A-3H-CC	28.00	0.7380	0.1565	-0.0501	-0.3406	-0.1805	0.0424	0.7487	-0.0029	0.0118
747A-4H-2	30.22	0.7709	0.1441	-0.0136	-0.7049	-0.4873	0.0241	0.0940	-0.0766	0.0161
747A-4H-4	33.22	0.8152	0.2040	-0.0651	-0.8157	-0.3041	0.0195	0.0781	-0.0664	0.0234
747A-4H-CC	37.50	0.9298	0.2222	-0.0270	-0.7894	-0.1658	0.0425	0.4537	-0.1459	0.0084
747A-5H-6	45.72	0.9641	0.2242	0.0002	-0.8656	-0.2505	0.0335	0.2565	-0.1867	-0.0069
747A-5H-CC	47.00	0.8966	0.2054	0.0109	-0.7660	-0.4082	0.0246	0.2727	-0.1593	0.0240

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Appendix C

Appendix C. Varimax principal component scores.

Species	PC I	PC II	PC III	PC IV	PC V	PC VI	PC VII	PC VIII
Anomalina spp	-0.1689	0.1994	0.1967	0.1915	-0.0534	-0.1197	-0.2569	0.1554
Anomalina alazanensis	-0.0635	0.1892	0.2165	0.2166	-0.0878	-0.3014	-0.3060	0.1598
Anomalina spissiformis	-0.2042	0.2005	0.2412	0.2354	-0.2400	-0.0600	-0.2177	0.1737
Anomalinoides semicribrati	-0.1777	0.1869	0.2196	0.1950	-0.2039	-0.2082	-0.3334	0.1730
Astrononion pusillum	1.7906	0.0435	-8.7709	0.7090	0.0094	-0.2579	-2.0842	0.1109
Bigenerina cf. nodosana	-0.1124	0.1921	0.2315	0.2294	-0.1984	-0.2004	-0.2832	0.1625
Bolivina humeri	-0.1727	0.2160	0.3295	0.0149	-0.2594	0.0170	-0.3462	0.1668
Bolivina spp	-0.2359	0.1178	0.0211	0.0642	-0.1411	-0.2519	-0.3330	0.2050
Bulimina aculeata	-0.1369	0.2868	0.2472	0.2890	-0.1166	-0.1282	-0.5715	-9.2120
Bulimina alazanensis	0.1015	0.1616	0.1852	0.2606	-0.3255	-0.0900	-0.4172	0.1653
Bulimina mexicana	-0.0589	0.2116	0.1568	0.3336	-0.0664	-0.0719	-0.0653	0.1441
Brizalina sp	-0.2522	0.1934	0.2283	0.1967	-0.2149	-0.0306	-0.3193	0.1666
Cassidella bradyi	-0.2361	0.1948	0.2391	0.1875	-0.1563	-0.2349	-0.2953	0.1643
Cassidulina teretis	-0.1896	0.0691	0.2029	0.1897	-0.1621	-0.2579	-0.3358	0.0036
Cassidulina cf. havanense	-0.1043	0.1849	0.2901	0.1150	-0.0287	-0.1013	-0.3744	0.2220
Cibicidoides bradyi	-0.1387	0.1917	-0.0236	0.2729	-0.1699	-0.4289	-0.1560	0.1433
Cibicidoides cicatricosus	-0.3105	0.2368	-0.5860	0.5300	-0.2351	-0.6939	0.6048	0.1412
Cibicidoides mundulus	1.1730	-0.0478	0.0575	-1.0346	0.8010	8.3876	-1.0874	-0.2399
Cibicidoides pachyderma	0.3666	0.1597	0.3226	0.2793	-0.2974	0.5092	-0.5976	0.2353
Cibicidoides wuellerstorfi	-0.2728	-0.0721	0.2646	-0.0546	-0.1178	-0.1996	0.8958	-0.0280
Cibicidoides spp	0.5415	-0.0011	-0.8966	0.1394	-0.3399	-0.0101	4.7061	0.5065
Dentalina spp	-0.2257	0.1889	0.1264	0.2096	-0.1624	-0.2234	0.1195	0.1458
Eggerella bradyi	-0.4241	-0.5759	-1.0660	-0.7572	0.4863	-0.2819	1.8346	-1.5775
Ehrenbergina pupa	-0.1507	0.1535	0.2431	0.2208	-0.2839	0.0021	-0.3548	0.1955
Ehrenbergina glabra	-0.0011	-0.4548	0.3026	0.1405	-0.5054	-0.0141	-0.0517	-0.0419
Eliohedra weddellensis	-0.2380	0.1797	0.2261	0.1801	-0.2030	-0.2210	-0.3119	0.1728
Epistominella exigua	0.1912	0.2555	-0.4545	-8.8590	-0.0486	-1.6234	-1.3853	-0.0095
Epistominella rugosa	-0.1236	0.1899	0.2231	0.1747	-0.1828	-0.2273	-0.3444	0.1634
Eponides sp	-0.2388	0.1050	0.1863	0.0671	-0.0608	-0.0640	-0.0656	0.0496
Fissurina spp	-0.1252	-0.1301	-0.0920	-0.7672	-0.1069	0.6544	0.6860	-0.1208
Fursenkoina earlandi+spp	-0.3939	0.1268	-0.0736	0.5529	0.1633	1.1059	0.0077	0.0403
Gavelinopsis lobatulus	0.1662	0.1783	0.2811	0.2731	-0.6669	0.3081	-0.4989	0.1633
Glandulina sp	-0.2535	0.1976	0.1174	0.2139	-0.1965	-0.3310	-0.2159	0.1666
Globocassidulina subglobos	0.5243	-1.1767	0.2267	-0.7922	0.1191	1.0277	-1.1166	0.6991
Gyroidina lamarckiana	-0.2499	0.1353	-0.0418	0.1380	-0.2131	-0.1644	0.1913	-0.0522
Gyroidina klein	-0.0088	0.1799	-0.0666	-0.1160	-0.0719	-0.3877	-0.3633	0.1788
Gyroidina spp	-0.0171	0.1489	0.1102	0.3929	-0.1572	1.1978	-0.5979	0.2790
Gyroidinoides soldanii	-0.0561	0.4081	-1.6419	0.8258	0.6048	-0.2200	2.3670	-0.1008
Gyroidinoides spp	0.3613	0.2687	-1.1043	0.6488	0.4212	-0.5646	1.4372	-0.0924
Hanzawaia sp	-0.2846	0.2220	-0.0897	0.2670	-0.2974	0.5859	-0.3112	0.1547
Hercnallenina sp	-0.2223	0.1880	0.2106	0.1642	-0.2035	-0.1915	-0.3423	0.1648
Karreriella bradyi	-0.1923	0.1582	0.0611	0.2009	-0.2387	0.1308	-0.1063	0.1253
Karreriella subglabra	-0.1625	0.2017	0.1833	0.2539	-0.1520	-0.1134	-0.2092	0.1523
Karreriella novangliae	-0.2098	0.1949	0.2275	0.2073	-0.1534	-0.2492	-0.2693	0.1655
Lagena spp	-0.1278	-0.0058	-0.0810	-0.1956	-0.1352	0.1281	0.0176	0.1425
Labcarinina pauperata	-0.0987	0.0760	0.0875	-0.1575	0.3110	1.0858	0.0540	0.2483
Lenticulina sp	-0.1907	0.1389	0.0906	0.2209	-0.1037	-0.0958	-0.1170	0.0752
Martinottiella nodulosa	-0.3205	0.2282	0.0205	0.0189	0.4764	-0.4377	0.0178	-0.0129
Martinottiella sp	-0.1975	0.1927	0.2318	0.2030	-0.2172	-0.2352	-0.2917	0.1623
Melonis barleeanum	-0.3253	-0.4012	0.1212	0.1123	0.4635	-0.3642	0.1509	-0.7031
Melonis pompilioides	-0.2718	-0.5039	0.3815	-0.3623	-0.1946	0.1352	0.7728	0.3804
Melonis sp	-0.0948	0.1767	0.2613	0.2424	0.0777	-0.2179	-0.2912	0.1519
Miliolinella sp	-0.2502	0.2111	0.2371	0.0436	-0.2194	-0.1566	-0.1686	0.1587
Norcon sp.6	-0.2207	0.1875	0.1797	0.1852	-0.1741	-0.2025	-0.3692	0.1814
Nonionella iridea + spp	-0.2198	0.2004	0.1998	0.1886	-0.2156	-0.0610	-0.2092	0.1365
Nodosaria sp	-0.2185	0.1953	0.2031	0.1706	-0.1229	-0.2746	-0.2325	0.1703
Norcon havanense	-0.0624	0.1939	0.2683	0.2244	-0.3324	-0.0763	-0.3193	0.1555
Nonionellina bradyi	-0.2013	0.1982	0.2138	0.1909	-0.2428	-0.2607	-0.2189	0.1598
Nuttallides umbonifer	9.0154	0.1479	1.9582	0.4168	-0.5077	-1.3735	0.0945	-0.1315
Ophtalmidium pusillum	-0.2458	0.2000	0.1682	0.1409	-0.1993	-0.2819	-0.2740	0.1613
Oridorsalis umbonatus	0.1747	-0.1389	-0.2634	-0.2744	-0.1890	1.5655	3.3052	-0.1422
Orthomorphina sp	-0.2209	0.1938	0.2397	0.1994	-0.2099	-0.2038	-0.2866	0.1727
Osangularia culter	-0.1418	0.1871	0.2414	0.2080	-0.2763	-0.2048	-0.3164	0.1721
Planulina renzi	-0.2043	0.1924	0.2510	0.1920	-0.2104	-0.2290	-0.2824	0.1750
Pleurostomella sp	-0.1847	0.2162	-0.0768	0.2351	0.1691	-0.3319	0.0919	0.1685
Psammosphaera fusca	-0.2350	0.1672	0.2279	0.2011	-0.1999	-0.2257	-0.2965	0.0058
Pullenia bulloides	0.2610	-1.2419	-0.5623	-1.7443	-0.2077	0.7795	4.5751	-0.1488
Pullenia simplex	-0.2313	0.1581	0.2785	0.0310	-0.2245	-0.2138	-0.1563	0.1263
Pullenia subcarinata	-0.1260	-0.2743	-0.0632	-0.8253	0.0077	-0.0196	2.6678	0.1077
Pyrgo murrhina	-0.2920	0.0096	0.2251	-0.0241	-0.2292	0.1323	0.2420	-0.2261
Pyrgo spp	-0.2767	0.1535	-0.0925	-0.0466	-0.2473	-0.5720	0.3948	0.2081
Quinqueloculina spp	-0.2370	0.2050	0.0266	-0.0173	-0.2375	-0.1685	-0.1844	0.1486
Quinqueloculina sp.3	-0.2683	0.2572	0.1399	-0.2788	-0.2009	-0.4054	-0.1128	0.1629
Rectuvigerina multicostata	-0.1159	0.1871	0.2505	0.2452	-0.1707	0.0108	-0.3266	0.1959
Reophax nodulosus	-0.2197	0.1952	0.2296	0.1832	-0.1835	-0.2437	-0.3054	0.1145
Rhabdammina/Hyperammina	-0.2232	0.1930	0.2250	0.1907	-0.2095	-0.2481	-0.2952	0.1683
Siphotextularia? spp	-0.2092	0.1991	0.1611	0.0558	-0.2169	-0.3410	-0.2634	0.0779
Sphaeroidina bulloides	-0.2363	0.2095	0.0674	0.2334	-0.2017	-0.3579	-0.0314	0.1519
Spiroplectammina cubensis	-0.2345	0.1951	0.2326	0.1954	-0.1375	-0.2395	-0.2807	0.1637
Stilostomella spp	0.6270	0.0474	0.1855	-0.0221	0.9805	0.9399	-0.4753	0.4820
Textularia cf. wiesneri	-0.1610	0.1982	0.1805	0.1350	-0.2663	-0.2846	-0.3154	0.1607
Trifarina angulosa	-0.1398	-9.1742	0.1668	0.5013	-0.1195	-0.5599	-1.0141	-0.0408
Triloculina trihedra/trigida	-0.2385	0.2003	0.2181	0.1611	-0.1990	-0.2567	-0.2664	0.0777
Uvigerina gracliformis	-0.1310	0.2044	0.3034	0.1505	-0.3181	0.0430	-0.3722	0.1605
Uvigerina hispida	-0.2358	0.2014	0.0486	0.1876	-0.2183	-0.4188	-0.1857	0.1422
Uvigerina hispido-costata	0.2212	0.0607	0.5207	0.2037	9.1340	-1.0128	-0.1070	0.1538
Uvigerina peregrina	-0.2191	0.1949	0.2375	0.2018	-0.2321	-0.1012	-0.3023	0.1552
Uvigerina proboscidea	-0.2371	0.1895	0.1640	0.2505	0.0427	0.0521	-0.3863	0.1506
Uvigerina spp.	-0.3077	0.2434	-0.3215	-0.4506	0.1010	0.4315	-0.7295	0.2366
Valvulineria laevigata	-0.2184	0.2309	0.2103	0.3040	-0.2557	0.0194	0.1369	0.1417
sp. indet	-0.4849	0.1899	-0.1092	0.2694	0.8246	0.1185	-0.2170	0.1609
all others	-0.0264	0.0547	0.1470	0.1052	-0.0482	0.0935	-0.4453	-0.0013

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Table 1

Table 1. Carbonate content of the bulk dry sediment, Hole 751A.

Core, section, interval (cm)	Depth (mbsf)	Carbonate (%)
120-751A-		
1H-1, 0–4	0.00	31.70
1H-1, 36–40	0.36	13.89
1H-1, 70–72	0.70	11.00
1H-1, 72–76	0.72	8.63
1H-1, 108–112	1.08	12.35
1H-1, 144–148	1.44	9.79
1H-2, 4–8	1.54	24.83
1H-2, 36–40	1.86	20.28
1H-2, 48–50	1.98	15.20
1H-2, 50–54	2.00	12.43
1H-2, 82–86	2.32	29.56
1H-2, 110–114	2.60	55.67
1H-2, 130–134	2.80	46.38
1H-3, 8–12	3.08	77.87
1H-3, 30–32	3.30	71.30
1H-3, 36–40	3.36	68.05
1H-3, 60–64	3.60	56.75
1H-3, 100–114	4.00	63.70
1H-3, 140–144	4.40	65.13
1H-4, 3–7	4.53	67.13
2H-1, 72–76	5.42	61.76
2H-1, 108–112	5.78	65.00
2H-1, 144–148	6.14	49.87
2H-2, 0–4	6.20	45.49
2H-2, 36–40	6.56	3.39
2H-2, 70–72	6.90	31.20
2H-2, 72–76	6.92	17.54
2H-2, 108–112	7.28	25.09
2H-2, 144–148	7.64	17.71
2H-3, 0–4	7.70	12.41
2H-3, 36–40	8.06	23.57
2H-3, 70–72	8.40	35.20
2H-3, 72–76	8.42	34.56
2H-3, 108–112	8.78	8.04
2H-3, 144–148	9.14	1.35
2H-4, 0–4	9.20	0.52
2H-4, 30–32	9.50	1.40
2H-4, 36–40	9.56	0.41
3H-1, 70–72	14.90	0.70
3H-1, 72–76	14.92	0.60
3H-1, 108–112	15.28	0.38
3H-1, 144–148	15.64	0.31
3H-2, 0–4	15.70	0.35
3H-2, 36–40	16.06	1.09
3H-2, 70–72	16.40	0.40
3H-2, 72–76	16.42	0.79
3H-2, 108–112	16.78	0.52
3H-3, 0–4	17.20	0.57
3H-3, 36–40	17.56	0.38
3H-3, 70–72	17.90	0.80
3H-3, 72–76	17.92	1.80
3H-3, 108–112	18.28	11.68
3H-3, 144–148	18.64	10.05
3H-4, 0–4	18.70	7.82
3H-4, 36–40	19.06	8.64
3H-4, 70–72	19.40	13.10
3H-4, 72–76	19.42	10.16
3H-4, 108–112	19.78	8.82
3H-5, 0–4	20.20	7.38
3H-5, 36–40	20.56	8.69
3H-5, 70–72	20.90	11.20
3H-5, 72–76	20.92	5.93
3H-5, 108–112	21.28	9.20
3H-5, 144–148	21.64	8.05
3H-6, 0–4	21.70	6.89
4H-2, 72–76	25.92	0.80
4H-2, 108–112	26.28	0.33
4H-2, 110–112	26.30	0.10
4H-2, 144–148	26.64	0.32
4H-3, 0–4	26.70	0.31
4H-3, 36–40	27.06	0.39
4H-3, 67–69	27.37	0.20
4H-3, 72–76	27.42	0.28
4H-3, 108–112	27.78	0.46

Table 1 (continued).

Core, section, interval (cm)	Depth (mbsf)	Carbonate (%)
4H-3, 144–148	28.14	0.33
4H-4, 0–4	28.20	0.30
4H-4, 36–40	28.56	0.58
4H-4, 67–69	28.87	0.30
4H-4, 72–76	28.92	0.67
4H-4, 108–112	29.28	12.30
4H-4, 144–148	29.64	25.11
4H-5, 0–4	29.70	15.24
4H-5, 36–40	30.06	4.38
4H-5, 67–69	30.37	23.70
4H-5, 72–76	30.42	28.72
4H-5, 108–112	30.78	2.22
4H-5, 144–148	31.14	0.48
4H-6, 0–4	31.20	0.44
4H-6, 36–40	31.56	0.39
4H-6, 70–72	31.90	0.20
4H-6, 72–76	31.92	0.39
4H-6, 108–112	32.28	0.36
4H-6, 144–148	32.64	0.31
5H-1, 0–4	33.20	5.32
5H-1, 36–40	33.56	14.71
5H-1, 70–72	33.90	0.20
5H-1, 72–76	33.92	0.45
5H-1, 108–112	34.28	0.50
5H-1, 144–148	34.64	0.46
5H-2, 0–4	34.70	0.37
5H-2, 36–40	35.06	0.40
5H-2, 70–72	35.40	0.10
5H-2, 72–76	35.42	0.35
5H-2, 108–112	35.78	0.39
5H-2, 144–148	36.14	0.34
5H-3, 0–4	36.20	0.42
5H-3, 36–40	36.56	0.27
5H-3, 70–72	36.90	0.10
5H-3, 72–76	36.92	0.39
5H-3, 108–112	37.28	0.44
5H-3, 144–148	37.64	0.33
5H-4, 0–4	37.70	0.33
5H-4, 36–40	38.06	0.31
5H-4, 70–72	38.40	0.10
5H-4, 72–76	38.42	0.46
5H-4, 108–112	38.78	0.33
5H-4, 144–148	39.14	0.38
5H-5, 0–4	39.20	0.33
5H-5, 36–40	39.56	0.29
5H-5, 70–72	39.90	0.10
5H-5, 72–76	39.92	0.36
5H-5, 108–112	40.28	65.21
5H-5, 144–148	40.64	74.44
5H-6, 0–4	40.70	76.36
5H-6, 30–32	41.00	74.50
5H-6, 36–40	41.06	73.52
6H-1, 36–40	43.06	64.23
6H-1, 70–72	43.40	67.10
6H-1, 72–76	43.42	67.37
6H-1, 114–118	43.84	69.88
6H-1, 144–148	44.14	64.89
6H-2, 0–4	44.20	63.61
6H-2, 36–40	44.56	59.04
6H-2, 70–72	44.90	60.10
6H-2, 72–76	44.92	63.56
6H-2, 108–112	45.28	75.27
6H-3, 0–4	45.70	77.37
6H-3, 36–40	46.06	77.81
6H-3, 70–72	46.40	71.20
6H-3, 72–76	46.42	68.03
6H-3, 108–112	46.78	68.54
6H-3, 144–148	47.14	74.85
6H-4, 0–4	47.20	76.68
6H-4, 36–40	47.56	74.91
6H-4, 70–72	47.90	74.70
6H-4, 72–76	47.92	77.73
6H-4, 108–112	48.28	77.93
6H-5, 0–4	48.70	82.63
6H-5, 36–40	49.06	82.67
6H-5, 70–72	49.40	68.20
6H-5, 72–76	49.42	68.10

Table 1 (continued).

Core, section, interval (cm)	Depth (mbsf)	Carbonate (%)
6H-5, 108–112	49.78	67.60
6H-6, 0–4	50.20	64.00
6H-6, 36–40	50.56	81.16
6H-6, 70–72	50.90	64.10
6H-6, 72–76	50.92	68.45
6H-6, 108–112	51.28	76.75
6H-6, 144–148	51.64	69.20
6H-7, 0–4	51.70	70.04
6H-7, 36–40	52.06	62.61
7H-1, 72–76	52.92	65.06
7H-1, 108–112	53.28	69.18
7H-1, 144–148	53.64	61.86
7H-2, 0–4	53.70	67.74
7H-2, 36–40	54.06	73.78
7H-2, 70–72	54.40	78.90
7H-2, 72–76	54.42	85.81
7H-2, 108–112	54.78	85.07
7H-3, 0–4	55.20	83.05
7H-3, 36–40	55.56	88.42
7H-3, 70–72	55.90	83.50
7H-3, 72–76	55.92	84.90
7H-3, 108–112	56.28	89.66
7H-3, 144–148	56.64	83.44
7H-4, 0–4	56.70	86.65
7H-4, 36–40	57.06	87.22
7H-4, 70–72	57.40	81.60
7H-4, 72–76	57.42	82.51
7H-4, 108–112	57.78	85.82
7H-4, 144–148	58.14	83.44
7H-5, 0–4	58.20	82.45
7H-5, 36–40	58.56	83.27
7H-5, 70–72	58.90	74.60
7H-5, 72–76	58.92	75.89
7H-5, 108–112	59.28	81.25
7H-5, 144–148	59.64	89.86
7H-6, 0–4	59.70	89.27
7H-6, 36–40	60.06	88.28
7H-6, 70–72	60.40	85.60
7H-6, 72–76	60.42	86.18
7H-6, 108–112	60.78	77.03
7H-6, 144–148	61.14	78.92
7H-7, 0–4	61.20	80.26
7H-7, 30–32	61.50	76.60
7H-7, 36–40	61.56	78.24
8H-2, 108–112	64.28	66.14
8H-2, 144–148	64.64	71.14
8H-3, 0–4	64.70	65.07
8H-3, 36–40	65.06	60.73
8H-3, 70–72	65.40	69.20
8H-3, 72–76	65.42	72.15
8H-3, 108–112	65.78	73.18
8H-3, 144–148	66.14	72.06
8H-4, 0–4	66.20	76.85
8H-4, 36–40	66.56	84.11
8H-4, 70–72	66.90	42.00
8H-4, 72–76	66.92	41.29
8H-4, 108–112	67.28	55.73
8H-4, 142–144	67.62	54.91
8H-5, 0–4	67.70	56.52
8H-5, 36–40	68.06	45.32
8H-5, 70–72	68.40	42.30
8H-5, 72–76	68.42	53.58
8H-5, 108–112	68.78	50.83
8H-5, 144–148	69.14	46.93
8H-6, 0–4	69.20	52.14
8H-6, 36–40	69.56	47.86
9H-1, 0–4	71.20	63.98
9H-1, 36–40	71.56	67.37
9H-1, 70–72	71.90	69.10
9H-1, 72–76	71.92	67.50
9H-1, 108–112	72.28	67.35
9H-1, 144–148	72.64	59.08
9H-2, 0–4	72.70	59.11
9H-2, 36–40	73.06	63.53
9H-2, 70–72	73.40	51.10
9H-2, 72–76	73.42	44.79
9H-2, 108–112	73.78	47.55

Table 1 (continued).

Core, section, interval (cm)	Depth (mbsf)	Carbonate (%)
9H-2, 144–148	74.14	53.14
9H-3, 0–4	74.20	53.66
9H-3, 36–40	74.56	58.87
9H-3, 70–72	74.90	55.00
9H-3, 72–76	74.92	49.57
9H-3, 108–112	75.28	55.23
9H-3, 144–148	75.64	54.95
9H-4, 0–4	75.70	49.72
9H-4, 36–40	76.06	68.59
9H-4, 70–72	76.40	79.80
9H-4, 72–76	76.42	65.72
9H-4, 108–112	76.78	82.04
9H-5, 0–4	77.20	70.07
9H-5, 36–40	77.56	73.55
9H-5, 70–72	77.90	76.60
9H-5, 72–76	77.92	78.13
9H-5, 108–112	78.28	75.81
9H-6, 0–4	78.70	80.50
9H-6, 36–40	79.06	75.93
9H-6, 70–72	79.40	69.40
9H-6, 72–76	79.42	70.03
9H-6, 108–112	79.78	68.90
9H-6, 144–148	80.14	70.93
9H-7, 0–4	80.20	73.05
9H-7, 36–40	80.56	73.11
10H-1, 0–4	80.70	76.80
9H-7, 70–72	80.90	69.80
9H-7, 72–76	80.92	70.54
10H-1, 36–40	81.06	79.10
10H-1, 70–72	81.40	80.00
10H-1, 72–76	81.42	79.29
10H-1, 108–112	81.78	83.88
10H-1, 144–148	82.14	83.55
10H-2, 0–4	82.20	82.89
10H-2, 36–40	82.56	83.06
10H-2, 70–72	82.90	79.20
10H-2, 72–76	82.92	79.94
10H-2, 108–112	83.28	84.92
10H-2, 144–148	83.64	84.38
10H-3, 0–4	83.70	81.03
10H-3, 36–40	84.06	83.39
10H-3, 70–72	84.40	84.60
10H-3, 72–76	84.42	84.90
10H-3, 108–112	84.78	84.11
10H-3, 144–148	85.14	79.03
10H-4, 0–4	85.20	76.99
10H-4, 36–40	85.56	75.26
10H-4, 70–72	85.90	72.70
10H-4, 72–76	85.92	70.13
10H-4, 108–112	86.28	77.75
10H-4, 144–148	86.64	73.81
10H-5, 0–4	86.70	74.22
10H-5, 36–40	87.06	80.33
10H-5, 70–72	87.40	80.10
10H-5, 72–76	87.42	83.59
10H-5, 108–112	87.78	84.44
10H-5, 144–148	88.14	83.86
10H-6, 0–4	88.20	86.46
10H-6, 36–40	88.56	81.04
10H-6, 72–76	88.92	82.59
10H-6, 108–112	89.28	80.94
10H-6, 144–148	89.64	77.59
10H-7, 0–4	89.70	76.95
10H-7, 36–40	90.06	83.04
11H-1, 0–4	90.20	81.92
11H-1, 38–42	90.58	82.36
11H-1, 70–72	90.90	80.10
11H-1, 72–76	90.92	82.37
11H-1, 108–112	91.28	91.82
11H-1, 132–136	91.52	91.65
11H-2, 0–4	91.70	90.04
11H-2, 38–42	92.08	87.18
11H-2, 70–72	92.40	86.00
11H-2, 72–76	92.42	87.33
11H-2, 108–112	92.78	84.30
11H-2, 132–136	93.02	85.46
11H-3, 0–4	93.20	56.60

Table 1 (continued).

Core, section, interval (cm)	Depth (mbsf)	Carbonate (%)
11H-3, 38–42	93.58	89.14
11H-3, 70–72	93.90	87.20
11H-3, 72–76	93.92	88.87
11H-3, 108–112	94.28	82.10
11H-3, 132–136	94.52	85.47
11H-4, 0–4	94.70	84.91
11H-4, 38–42	95.08	81.50
11H-4, 70–72	95.40	77.50
11H-4, 72–76	95.42	76.89
11H-4, 108–112	95.78	77.29
11H-4, 132–136	96.02	56.42
11H-5, 0–4	96.20	66.04
11H-5, 36–40	96.58	75.37
11H-5, 70–72	96.90	80.20
11H-5, 72–76	96.92	82.01
11H-5, 108–112	97.28	84.58
11H-5, 132–136	97.52	72.06
11H-6, 0–4	97.70	75.98
11H-6, 36–40	98.08	71.98
11H-6, 70–72	98.40	72.30
11H-6, 73–76	98.42	72.65
11H-6, 108–112	98.78	57.74
11H-6, 132–136	99.02	55.46
11H-7, 0–4	99.20	49.02
11H-7, 38–42	99.58	58.10
12H-1, 0–4	99.70	72.95
11H-7, 57–61	99.77	30.63
12H-1, 38–42	100.08	44.44
12H-1, 70–72	100.40	42.90
12H-1, 72–76	100.42	34.38
12H-1, 108–112	100.78	48.19
12H-1, 134–138	101.04	54.73
12H-2, 0–4	101.20	52.98
12H-2, 36–40	101.56	44.78
12H-2, 70–72	101.90	46.70
12H-2, 72–76	101.92	50.73
12H-2, 108–112	102.28	48.52
12H-2, 134–138	102.54	57.28
12H-3, 0–4	102.70	40.66
12H-3, 38–42	103.08	61.75
12H-3, 70–72	103.40	67.30
12H-3, 72–76	103.42	66.34
12H-3, 108–112	103.78	58.31
12H-3, 134–138	104.04	68.91
12H-4, 0–4	104.20	72.72
12H-4, 38–42	104.58	66.84
12H-4, 70–72	104.90	65.70
12H-4, 72–76	104.92	65.38
12H-4, 108–112	105.28	70.42
12H-4, 134–138	105.54	64.04
12H-5, 0–4	105.70	63.91
12H-5, 36–40	106.06	65.17
12H-5, 70–72	106.40	69.60
12H-5, 72–76	106.42	70.54
12H-5, 108–112	106.78	57.78
12H-5, 134–138	107.04	64.12
12H-6, 0–4	107.20	68.08
12H-6, 38–42	107.58	55.41
12H-6, 70–72	107.90	58.60
12H-6, 72–76	107.92	58.58
12H-6, 108–112	108.28	51.45
12H-6, 134–138	108.54	32.23
12H-7, 0–4	108.70	32.25
12H-7, 23–27	108.93	30.13
12H-7, 44–48	109.14	24.83
13H-1, 45–49	109.65	78.10
13H-1, 65–69	109.85	79.13
13H-1, 70–72	109.90	74.60
13H-1, 85–89	110.05	81.96
13H-1, 110–114	110.30	75.83
13H-1, 134–138	110.54	80.93
13H-2, 13–17	110.83	80.59
13H-2, 36–40	111.06	74.91
13H-2, 65–69	111.35	65.53
13H-2, 70–72	111.40	58.50
13H-2, 110–114	111.80	79.48
13H-2, 134–138	112.04	82.89

Table 1 (continued).

Core, section, interval (cm)	Depth (mbsf)	Carbonate (%)
13H-3, 13–17	112.33	86.32
13H-3, 36–40	112.56	88.35
13H-3, 65–69	112.85	88.03
13H-3, 70–72	112.90	83.60
13H-3, 110–114	113.30	81.73
13H-3, 134–138	113.54	84.28
13H-4, 14–18	113.84	80.51
13H-4, 37–41	114.07	76.26
13H-4, 65–69	114.35	51.92
13H-4, 70–72	114.40	45.30
13H-4, 86–90	114.56	30.48
13H-4, 134–138	115.05	23.96
13H-5, 14–18	115.34	85.33
13H-5, 36–40	115.56	88.60
13H-5, 65–69	115.85	92.79
13H-5, 70–72	115.90	91.10
13H-5, 111–115	116.31	90.47
13H-5, 135–138	116.55	90.41
13H-6, 0–4	116.70	89.55
13H-6, 37–41	117.07	93.62
13H-6, 65–69	117.35	93.75
13H-6, 86–90	117.56	93.25
13H-6, 111–115	117.81	92.60
13H-7, 4–8	118.24	61.62
13H-7, 24–28	118.44	53.74
14H-2, 36–40	120.56	92.36
14H-3, 70–72	122.40	83.60
14H-4, 70–72	123.90	87.50
14H-5, 36–40	125.06	81.94
14H-5, 70–72	125.40	70.90
14H-7, 70–72	128.40	61.20
15H-2, 36–40	130.06	81.46
15H-2, 87–89	130.57	71.30
15H-3, 70–72	131.90	74.10
15H-4, 70–72	133.40	84.60
15H-5, 36–40	134.56	87.84
15H-5, 70–72	134.90	84.90
15H-6, 70–72	136.40	85.40
16H-1, 36–40	138.06	88.13
16H-1, 70–72	138.40	86.00
16H-2, 36–40	139.56	82.61
16H-2, 70–72	139.90	85.60
16H-3, 36–40	141.06	89.77
16H-3, 70–72	141.40	91.80
16H-4, 36–40	142.56	87.77
16H-4, 70–72	142.90	90.20
16H-5, 36–40	144.06	89.90
16H-5, 70–72	144.40	91.00
16H-6, 36–40	145.56	86.24
16H-6, 70–72	145.90	87.60
16H-7, 36–40	147.06	88.10
17H-2, 36–40	149.06	90.70
17H-2, 70–72	149.40	88.10
17H-4, 86–90	152.56	81.02
17H-5, 36–41	153.56	89.43
17H-5, 70–72	153.90	88.40
17H-6, 36–40	155.06	80.61
17H-6, 70–72	155.40	80.90
17H-7, 36–40	156.56	71.95
18H-1, 70–72	157.40	78.10
18H-2, 36–40	158.56	81.60
18H-2, 70–72	158.90	84.10
18H-3, 70–72	160.40	92.90
18H-4, 70–72	161.90	80.90
18H-5, 36–40	163.06	85.78

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Table 2

Table 2. Isotopic raw data of benthic and planktonic foraminifers, Hole 751A.

Core, section, interval (cm)	Depth (mbsf)	Benthic			Planktonic		
		$\delta^{18}O$	$\delta^{13}C$	Species	$\delta^{18}O$	$\delta^{13}C$	Species
120-751A-							
1H-1, 0–4	0.00	3.49	−0.57	*T. earlandi*	3.43	0.73	*N. pachyderma*
1H-1, 72–76	0.72	5.19	−1.18	*T. earlandi*	4.20	0.05	*N. pachyderma*
1H-1, 144–148	1.44	4.43	−0.63	*T. earlandi*	3.70	0.16	*N. pachyderma*
1H-2, 36–40	1.86	4.64	−0.71	*T. earlandi*	3.74	0.29	*N. pachyderma*
1H-2, 82–86	2.32	4.54	−0.86	*T. earlandi*	3.81	0.08	*N. pachyderma*
		4.11	−0.43	*Cibicidoides* spp.			
1H-2, 110–114	2.60	4.32	−0.76	*T. earlandi*	3.69	0.06	*N. pachyderma*
		3.54	−0.33	*Cibicidoides* spp.			
1H-2, 130–134	2.80	3.47	−0.16	*Cibicidoides* spp.	3.66	0.17	*N. pachyderma*
1H-3, 36–40	3.36	3.58	−0.42	*Cibicidoides* spp.	3.74	0.26	*N. pachyderma*
		4.18	−0.25	*T. earlandi*			
1H-3, 100–104	4.00	3.75	−0.73	*Cibicidoides* spp.	4.11	−0.21	*N. pachyderma*
		4.83	−1.46	*T. earlandi*			
1H-4, 3–7	4.53	3.92	−0.54	*Cibicidoides* spp.	3.87	−0.02	*N. pachyderma*
2H-1, 72–74	5.42	4.16	−0.21	*T. earlandi*	3.77	0.46	*N. pachyderma*
		3.65	−0.06	*Cibicidoides* spp.			
2H-1, 144–148	6.14	4.11	−0.19	*T. earlandi*	3.19	0.11	*N. pachyderma*
		3.51	0.23	*Cibicidoides* spp.			
2H-2, 36–40	6.56	3.83	−0.63	*T. earlandi*	3.62	0.15	*N. pachyderma*
2H-2, 108–112	7.28	3.19	0.28	*Cibicidoides* spp.	3.40	0.07	*N. pachyderma*
		3.24	0.37	*Cibicidoides* spp.			
2H-3, 36–40	8.06	4.08	−0.29	*T. earlandi*	3.81	0.32	*N. pachyderma*
		3.70	−0.62	*T. earlandi*			
2H-3, 72–76	8.42	2.95	0.37	*Cibicidoides* spp.			
2H-3, 108–112	8.78	3.04	0.52	*Cibicidoides* spp.	2.90	0.32	*N. pachyderma*
2H-4, 36–40	9.56				3.52	0.13	*N. pachyderma*
2H-CC	14.20	4.24	−0.60	*T. earlandi*			
3H-2, 0–4	15.70				1.92	−0.35	*N. pachyderma*
3H-4, 0–4	18.70	3.05	0.20	*Cibicidoides* spp.	3.04	0.41	*N. pachyderma*
		2.91	0.10	*Cibicidoides* spp.			
3H-4, 36–40	19.06	2.53	0.32	*Cibicidoides* spp.			
3H-4, 72–76	19.42	3.23	0.07	*Cibicidoides* spp.	3.00	0.33	*N. pachyderma*
3H-4, 108–112	19.78	3.00	0.22	*Cibicidoides* spp.	2.89	0.16	*N. pachyderma*
3H-5, 0–4	20.20	3.68	0.15	*Cibicidoides* spp.	2.92	0.34	*N. pachyderma*
3H-5, 36–40	20.56	2.71	0.13	*Cibicidoides* spp.	2.79	0.36	*N. pachyderma*
3H-5, 72–76	20.92				3.07	−0.01	*N. pachyderma*
3H-5, 108–112	21.28	2.61	0.09	*Cibicidoides* spp.	2.66	0.32	*N. pachyderma*
3H-5, 144–148	21.64	2.92	0.32	*Cibicidoides* spp.	2.68	0.28	*N. pachyderma*
3H-6, 0–4	21.70				2.94	0.29	*N. pachyderma*
4H-2, 72–76	25.92				2.77	0.20	*N. pachyderma*
4H-5, 0–4	29.70	2.73	0.34	*Cibicidoides* spp.	2.94	0.28	*N. pachyderma*
4H-5, 72–76	30.42	2.97	0.33	*Cibicidoides* spp.			
5H-1, 0–4	33.20				2.78	0.20	*N. pachyderma*
5H-5, 108–112	40.28	2.73	0.50	*C. wuellerstorfi*	3.09	0.96	*N. pachyderma*
5H-5, 144–148	40.64	2.99	0.78	*Cibicidoides* spp.	3.07	1.09	*N. pachyderma*
		2.87	0.71	*Cibicidoides* spp.			
		2.97	0.52	*C. wuellerstorfi*			
		3.08	0.73	*C. wuellerstorfi*			
5H-6, 0–4	40.70	3.00	0.64	*Cibicidoides* spp.	3.10	1.10	*N. pachyderma*
		3.03	0.99	*Cibicidoides* spp.			
5H-6, 36–40	41.06	2.83	0.90	*C. wuellerstorfi*	3.23	1.22	*N. pachyderma*
		2.92	0.75	*Cibicidoides* spp.			
		3.03	0.99	*Cibicidoides* spp.			
		3.09	0.69	*Cibicidoides* spp.			
6H-1, 36–40	43.06	3.04	0.97	*Cibicidoides* spp.	3.12	1.11	*N. pachyderma*
6H-1, 72–76	43.42	2.99	1.24	*Cibicidoides* spp.	3.15	1.31	*N. pachyderma*
6H-1, 114–118	43.84	3.04	1.29	*Cibicidoides* spp.	2.92	1.25	*N. pachyderma*
6H-1, 144–148	44.14	2.95	1.43	*Cibicidoides* spp.	3.15	1.15	*N. pachyderma*
6H-2, 0–4	44.20	3.11	1.34	*Cibicidoides* spp.	2.96	1.30	*N. pachyderma*
6H-2, 36–40	44.56				2.69	1.34	*N. pachyderma*
6H-2, 72–76	44.92	3.16	1.22	*Cibicidoides* spp.			
6H-2, 108–112	45.28	3.33	1.27	*Cibicidoides* spp.	2.46	0.92	*G. bulloides*
6H-2, 144–148	45.64	3.11	1.00	*Cibicidoides* spp.			
6H-3, 0–4	45.70	3.34	0.94	*Cibicidoides* spp.	2.73	0.60	*G. bulloides*
					2.65	0.86	*G. bulloides*
6H-3, 36–40	46.06	3.06	1.04	*Cibicidoides* spp.	2.90	0.86	*G. bulloides*
6H-3, 72–76	46.42	2.92	1.09	*Cibicidoides* spp.	2.98	0.99	*G. bulloides*
6H-3, 108–112	46.78	3.00	1.18	*Cibicidoides* spp.			
		3.41	0.43	*Gyroidina* sp.			
6H-3, 144–148	47.14	3.16	1.13	*Cibicidoides* spp.			
6H-4, 0–4	47.20	2.87	1.00	*Cibicidoides* spp.	3.19	0.74	*G. bulloides*
6H-4, 36–40	47.56	3.19	1.06	*Cibicidoides* spp.			
6H-4, 72–76	47.92	2.86	0.84	*Cibicidoides* spp.	3.07	0.79	*G. bulloides*
6H-4, 108–112	48.28	3.04	1.03	*Cibicidoides* spp.			
6H-5, 0–4	48.70	2.96	0.94	*Cibicidoides* spp.	3.13	0.69	*G. bulloides*

Table 2 (continued).

Core, section, interval (cm)	Depth (mbsf)	Benthic			Planktonic		
		$\delta^{18}O$	$\delta^{13}C$	Species	$\delta^{18}O$	$\delta^{13}C$	Species
6H-5, 36–40	49.06	3.08	1.11	*Cibicidoides* spp.			
6H-5, 72–76	49.42	3.06	0.82	*Cibicidoides* spp.	3.20	0.77	*G. bulloides*
6H-5, 108–112	49.78	3.21	0.88	*Cibicidoides* spp.			
6H-6, 0–4	50.20	3.16	0.89	*Cibicidoides* spp.	3.08	0.92	*G. bulloides*
6H-6, 36–40	50.56	3.19	1.31	*Cibicidoides* spp.			
6H-6, 72–76	50.92	2.94	1.02	*Cibicidoides* spp.	2.95	0.59	*G. bulloides*
6H-6, 108–112	51.28	2.93	1.24	*Cibicidoides* spp.			
6H-6, 144–148	51.64	3.05	1.02	*Cibicidoides* spp.			
6H-7, 0–4	51.70	3.02	1.14	*Cibicidoides* spp.	2.84	0.49	*G. bulloides*
6H-7, 36–40	52.06	3.04	0.94	*Cibicidoides* spp.	2.97	0.83	*G. bulloides*
7H-1, 72–76	52.92	3.05	1.09	*Cibicidoides* spp.	2.89	0.90	*G. bulloides*
7H-1, 108–112	53.28	2.83	0.91	*Cibicidoides* spp.	3.12	0.91	*G. bulloides*
7H-1, 144–148	53.64	3.41	1.22	*Cibicidoides* spp.			
7H-2, 0–4	53.70	3.10	0.85	*Cibicidoides* spp.	2.92	0.67	*G. bulloides*
7H-2, 36–40	54.06	2.88	0.97	*Cibicidoides* spp.			
7H-2, 72–76	54.42	2.79	0.91	*Cibicidoides* spp.	2.79	0.74	*G. bulloides*
7H-2, 108–112	54.78	3.06	0.91	*Cibicidoides* spp.			
7H-2, 144–148	55.14	2.90	0.80	*Cibicidoides* spp.			
7H-3, 0–4	55.20	2.99	1.06	*Cibicidoides* spp.			
7H-3, 36–40	55.56	3.15	1.10	*Cibicidoides* spp.			
7H-3, 72–76	55.92	3.15	1.01	*Cibicidoides* spp.			
7H-3, 108–112	56.28	3.04	0.91	*Cibicidoides* spp.			
7H-3, 144–148	56.64	3.15	0.95	*Cibicidoides* spp.			
7H-4, 0–4	56.70	2.90	0.83	*Cibicidoides* spp.			
7H-4, 36–40	57.06	2.76	0.90	*Cibicidoides* spp.			
7H-4, 72–76	57.42	3.16	0.98	*Cibicidoides* spp.			
7H-4, 108–112	57.78	2.93	0.99	*Cibicidoides* spp.			
7H-4, 144–148	58.14	2.98	1.10	*Cibicidoides* spp.			
7H-5, 0–4	58.20	2.94	1.06	*Cibicidoides* spp.	2.87	0.28	*G. bulloides*
7H-5, 36–40	58.56	2.92	1.00	*Cibicidoides* spp.			
7H-5, 72–76	58.92	3.21	0.97	*Cibicidoides* spp.			
7H-5, 108–112	59.28	2.87	0.97	*Cibicidoides* spp.			
7H-5, 144–148	59.64	2.86	1.08	*Cibicidoides* spp.			
7H-6, 0–4	59.70	2.58	0.86	*Cibicidoides* spp.	3.06	1.10	*G. bulloides*
		2.69	1.03	*Cibicidoides* spp.			
7H-6, 36–40	60.06	2.78	0.89	*Cibicidoides* spp.			
7H-6, 72–76	60.42	2.82	0.96	*Cibicidoides* spp.	2.71	0.99	*G. bulloides*
7H-6, 108–112	60.78	2.85	0.96	*Cibicidoides* spp.			
7H-6, 144–148	61.14	2.66	0.93	*C. mundulus*	2.54	0.87	*G. bulloides*
		2.51	0.81	*C. mundulus*	2.62	0.79	*G. bulloides*
		2.53	0.78	*C. mundulus*	2.47	0.84	*G. bulloides*
		2.56	0.72	*C. mundulus*	2.55	0.93	*G. bulloides*
		2.68	0.99	*C. mundulus*	2.60	0.93	*G. bulloides*
		2.68	0.77	*C. mundulus*	2.62	1.05	*G. bulloides*
		2.69	0.95	*C. mundulus*			
7H-7, 0–4	61.20	2.64	1.01	*Cibicidoides* spp.	2.40	1.59	*G. bulloides*
7H-7, 36–40	61.56	2.53	0.94	*Cibicidoides* spp.	2.67	1.24	*G. bulloides*
		2.75	0.97	*Cibicidoides* spp.			
8H-2, 108–112	64.28	2.96	0.51	*Gyroidina* sp.	2.51	1.58	*G. bulloides*
8H-2, 144–148	64.64	3.05	1.24	*Cibicidoides* spp.			
		3.56	0.88	*Gyroidina* sp.			
8H-3, 0–4	64.70	2.70	1.13	*Cibicidoides* spp.	2.73	1.59	*G. bulloides*
8H-3, 36–40	65.06	2.88	1.16	*Cibicidoides* spp.			
		3.10	1.17	*Cibicidoides* spp.			
8H-3, 72–76	65.42	2.65	0.94	*Cibicidoides* spp.	2.30	1.50	*G. bulloides*
8H-3, 108–112	65.78	2.66	1.07	*Cibicidoides* spp.	2.41	1.51	*G. bulloides*
8H-3, 144–148	66.14	2.58	0.98	*Cibicidoides* spp.	2.52	1.54	*G. bulloides*
8H-4, 0–4	66.20	2.44	0.93	*Cibicidoides* spp.	2.61	1.53	*G. bulloides*
8H-4, 36–40	66.56	3.05	1.04	*Cibicidoides* spp.	2.58	1.69	*G. bulloides*
8H-4, 72–76	66.92	3.48	1.49	*Cibicidoides* spp.	2.87	1.39	*G. bulloides*
8H-4, 108–112	67.28	2.73	1.30	*Cibicidoides* spp.	2.36	1.40	*G. bulloides*
8H-4, 144–148	67.62	2.89	1.38	*Cibicidoides* spp.	2.20	1.47	*G. bulloides*
8H-5, 0–4	67.70	3.75	1.15	*Cibicidoides* spp.	2.41	1.69	*G. bulloides*
		3.17	0.73	*Gyroidina* sp.			
8H-5, 36–40	68.06	2.57	0.87	*Cibicidoides* spp.	2.39	1.34	*G. bulloides*
8H-5, 72–76	68.42	2.76	0.85	*Cibicidoides* spp.	2.12	1.50	*G. bulloides*
		2.60	0.58	*N. umbonifer*			
		3.19	0.34	*Gyroidina* sp.			
8H-5, 108–112	68.78	2.81	0.96	*Cibicidoides* spp.	2.47	1.15	*G. bulloides*
8H-5, 144–148	69.14	2.49	0.16	*Cibicidoides* spp.	2.42	1.26	*G. bulloides*
8H-6, 0–4	69.20	2.51	0.90	*Cibicidoides* spp.	2.33	1.19	*G. bulloides*
8H-6, 36–40	69.56	2.55	0.56	*Cibicidoides* spp.	2.18	1.29	*G. woodi*
9H-1, 0–4	71.20	2.78	1.09	*Cibicidoides* spp.			
9H-1, 36–40	71.56	2.83	0.88	*Cibicidoides* spp.			
9H-1, 72–76	71.92	3.09	1.21	*Cibicidoides* spp.	2.85	1.17	*G. bulloides*
9H-1, 108–112	72.28	2.82	1.06	*Cibicidoides* spp.	2.54	1.26	*G. woodi*

Table 2 (continued).

Core, section, interval (cm)	Depth (mbsf)	Benthic			Planktonic		
		$\delta^{18}O$	$\delta^{13}C$	Species	$\delta^{18}O$	$\delta^{13}C$	Species
9H-1, 144–148	72.64	3.04	1.06	*Cibicidoides* spp.	2.34	0.87	*G. woodi*
9H-2, 0–4	72.70	2.87	0.96	*Cibicidoides* spp.	2.75	1.08	*G. bulloides*
9H-2, 36–40	73.06	3.12	1.06	*Cibicidoides* spp.	2.83	0.97	*G. woodi*
9H-2, 72–76	73.42	3.05	0.97	*Cibicidoides* spp.	2.69	1.02	
9H-2, 108–112	73.78	2.74	0.75	*Cibicidoides* spp.	2.53	1.03	*G. bulloides*
					2.49	0.74	*G. woodi*
9H-2, 144–148	74.14	2.62	0.69	*Cibicidoides* spp.	2.34	1.06	*G. bulloides*
9H-3, 0–4	74.20				2.44	0.87	*G. bulloides*
9H-3, 36–40	74.56	2.91	1.09	*Cibicidoides* spp.	2.60	0.98	*G. bulloides*
9H-3, 72–76	74.92	2.70	1.10	*Cibicidoides* spp.	2.62	1.03	*G. bulloides*
9H-3, 108–112	75.28	2.65	0.54	*Cibicidoides* spp.			
9H-3, 144–148	75.64	3.30	1.47	*Cibicidoides* spp.	2.69	0.85	*G. bulloides*
9H-4, 0–4	75.70	2.92	1.28	*Cibicidoides* spp.	2.82	0.97	*G. bulloides*
9H-4, 36–40	76.06	2.97	1.30	*Cibicidoides* spp.	2.69	1.37	*G. bulloides*
9H-4, 72–76	76.42	2.93	1.00	*Cibicidoides* spp.	2.64	0.93	*G. bulloides*
9H-4, 108–112	76.78	2.85	1.05	*Cibicidoides* spp.	2.80	1.05	*G. bulloides*
9H-5, 0–4	77.20	2.51	0.77	*Cibicidoides* spp.	2.49	1.08	*G. bulloides*
9H-5, 36–40	77.56	2.58	1.01	*Cibicidoides* spp.	2.44	1.24	*G. bulloides*
9H-5, 72–76	77.92	2.56	0.60	*Cibicidoides* spp.	2.48	1.03	*G. bulloides*
9H-5, 108–112	78.28	2.60	0.77	*Cibicidoides* spp.	2.74	1.21	*G. bulloides*
9H-6, 0–4	78.70	2.57	0.92	*Cibicidoides* spp.	2.31	1.32	*G. bulloides*
9H-6, 36–40	79.06	2.76	1.20	*Cibicidoides* spp.	2.77	1.29	*G. bulloides*
9H-6, 72–76	79.42	2.85	1.11	*Cibicidoides* spp.	2.63	0.93	*G. bulloides*
9H-6, 108–112	79.78	2.72	1.03	*Cibicidoides* spp.	2.55	1.06	*G. bulloides*
9H-6, 144–148	80.14	2.80	1.04	*Cibicidoides* spp.	2.55	0.91	*G. bulloides*
9H-7, 0–4	80.20	2.81	1.00	*Cibicidoides* spp.			
9H-7, 36–40	80.56	2.76	0.88	*Cibicidoides* spp.	2.42	0.95	*G. bulloides*
		3.39	0.58	*Gyroidina* sp.			
10H-1, 0–4	80.70	2.79	0.90	*Cibicidoides* spp.	2.59	1.04	*G. bulloides*
					2.77	1.19	*G. woodi*
9H-7, 72–76	80.92	2.96	1.16	*Cibicidoides* spp.	2.67	1.03	*G. bulloides*
10H-1, 36–40	81.06	2.68	0.87	*Cibicidoides* spp.			
10H-1, 72–76	81.42	3.28	0.56	*Gyroidina* sp.	2.80	1.40	*G. woodi*
10H-1, 108–112	81.78	2.77	0.92	*Cibicidoides* spp.			
10H-1, 144–148	82.14	2.79	1.00	*Cibicidoides* spp.			
10H-2, 0–4	82.20	2.87	1.14	*Cibicidoides* spp.	2.84	1.37	*G. woodi*
		2.62	1.04	*Cibicidoides* spp.			
10H-2, 36–40	82.56	3.25	1.36	*Cibicidoides* spp.			
10H-2, 72–76	82.92	2.85	0.83	*Cibicidoides* spp.	2.69	1.01	*G. falconensis*
		2.84	1.06	*Cibicidoides* spp.			
10H-2, 108–112	83.28	2.83	1.38	*Cibicidoides* spp.			
10H-2, 144–148	83.64	2.79	1.27	*Cibicidoides* spp.			
10H-3, 0–4	83.70	2.64	1.40	*Cibicidoides* spp.	2.56	1.61	*G. bulloides*
		2.67	1.38	*Cibicidoides* spp.			
10H-3, 36–40	84.06	2.71	1.23	*Cibicidoides* spp.			
10H-3, 72–76	84.42	2.82	1.19	*Cibicidoides* spp.	2.67	1.53	*Globigerina*
10H-3, 108–112	84.78	2.92	1.45	*Cibicidoides* spp.			
10H-3, 144–148	85.14	2.91	1.43	*Cibicidoides* spp.			
10H-4, 0–4	85.20	2.84	1.34	*Cibicidoides* spp.	2.85	1.63	*G. falconensis*
10H-4, 36–40	85.56	2.97	1.54	*Cibicidoides* spp.			
10H-4, 72–76	85.92	2.95	1.52	*Cibicidoides* spp.	2.58	1.58	*G. woodi*
		3.39	0.87	*Gyroidina* sp.			
10H-4, 108–112	86.28	2.88	1.44	*Cibicidoides* spp.			
10H-4, 144–148	86.64	3.07	1.64	*Cibicidoides* spp.			
10H-5, 0–4	86.70	3.42	1.05	*Gyroidina* sp.	2.43	1.83	*G. woodi*
10H-5, 36–40	87.06	2.93	1.47	*Cibicidoides* spp.			
10H-5, 72–76	87.42	2.99	1.61	*Cibicidoides* spp.	2.83	1.87	*G. woodi*
10H-5, 108–112	87.78	3.04	1.49	*Cibicidoides* spp.			
10H-5, 144–148	88.14	2.93	1.51	*Cibicidoides* spp.			
		3.43	0.82	*Gyroidina* sp.			
10H-6, 0–4	88.20	3.40	0.92	*Gyroidina* sp.	2.84	1.67	*G. woodi*
		2.87	1.41	*Cibicidoides* spp.			
10H-6, 36–40	88.56	2.97	1.50	*Cibicidoides* spp.			
		3.51	0.80	*Gyroidina* sp.			
10H-6, 72–76	88.92	3.30	0.91	*Gyroidina* sp.	2.54	1.75	*G. bulloides*
		2.94	1.48	*Cibicidoides* spp.			
10H-6, 108–112	89.28						
10H-6, 144–148	89.64	2.78	1.36	*Cibicidoides* spp.			
		3.28	0.63	*Gyroidina* sp.			
10H-7, 0–4	89.70	2.77	1.34	*Cibicidoides* spp.	2.41	1.45	*G. bulloides*
10H-7, 36–40	90.06	3.07	1.49	*Cibicidoides* spp.			
11H-1, 0–4	90.20	3.52	0.68	*Gyroidina* sp.	2.68	1.49	*G. woodi*
11H-1, 38–42	90.58	3.05	1.60	*Cibicidoides* spp.			
11H-1, 72–76	90.92	2.83	1.26	*Cibicidoides* spp.	2.78	1.48	*G. woodi*
11H-1, 108–112	91.28	3.19	1.68	*Cibicidoides* spp.			
11H-1, 132–136	91.52	3.22	1.75	*Cibicidoides* spp.			

Table 2 (continued).

Core, section, interval (cm)	Depth (mbsf)	Benthic			Planktonic		
		$\delta^{18}O$	$\delta^{13}C$	Species	$\delta^{18}O$	$\delta^{13}C$	Species
11H-2, 0–4	91.70	3.02	1.82	*Cibicidoides* spp.			
11H-2, 38–42	92.08	3.03	1.73	*Cibicidoides* spp.			
11H-2, 72–76	92.42	3.05	1.47	*Cibicidoides* spp.	2.91	1.56	planktonic
11H-2, 108–112	92.78	3.20	1.45	*Cibicidoides* spp.			
11H-2, 132–136	93.02	3.20	1.33	*Cibicidoides* spp.			
11H-3, 0–4	93.20	2.87	1.21	*Cibicidoides* spp.	2.15	1.08	*Globorotalia*
		3.37	0.61	*Gyroidina* sp.	2.65	1.12	*Globigerina*
11H-3, 38–42	93.58	3.06	1.64	*Cibicidoides* spp.			
11H-3, 72–76	93.92	2.51	0.81	*Cibicidoides* spp.			
11H-3, 108–112	94.28	3.09	1.37	*Cibicidoides* spp.			
11H-3, 132–136	94.52	2.99	1.14	*Cibicidoides* spp.			
11H-4, 0–4	94.70	2.61	0.72	*N. umbonifer*	2.49	1.15	*G. bulloides*
		2.47	0.65	*N. umbonifer*			
		3.03	1.35	*Cibicidoides* spp.			
11H-4, 38–42	95.08	2.82	1.15	*Cibicidoides* spp.			
11H-4, 72–76	95.42	2.71	1.20	*Cibicidoides* spp.	2.33	0.77	*G. bulloides*
		2.55	0.40	*N. umbonifer*	2.73	1.23	*G. scitula*
11H-4, 108–112	95.78	2.86	0.87	*N. umbonifer*			
11H-4, 132–136	96.02	3.14	0.97	*Cibicidoides* spp.			
11H-5, 0–4	96.20	2.78	0.89	*Cibicidoides* spp.	2.91	1.12	*G. scitula*
		2.88	1.00	*Cibicidoides* spp.			
11H-5, 38–42	96.58	2.94	1.25	*Cibicidoides* spp.			
11H-5, 72–76	96.92	2.73	1.00	*Cibicidoides* spp.	2.43	0.70	*G. bulloides*
		2.74	1.17	*G. scitula*			
11H-5, 108–112	97.28	2.96	1.33	*Cibicidoides* spp.			
11H-5, 132–136	97.52	2.68	1.01	*Cibicidoides* spp.			
11H-6, 0–4	97.70	2.46	0.74	*N. umbonifer*	2.01	0.72	*G. bulloides*
11H-6, 38–42	98.08	2.81	1.10	*Cibicidoides* spp.			
11H-6, 72–76	98.42	2.87	1.43	*Cibicidoides* spp.	2.91	1.51	*G. scitula*
11H-6, 108–112	98.78	2.58	0.78	*N. umbonifer*			
11H-6, 132–136	99.02	2.93	1.27	*Cibicidoides* spp.			
11H-7, 0–4	99.20	2.77	1.19	*Cibicidoides* spp.	2.70	1.39	*G. scitula*
11H-7, 38–42	99.58	2.63	1.02	*Cibicidoides* spp.			
12H-1, 0–4	99.70	2.71	0.85	*Cibicidoides* spp.	2.44	1.15	*G. woodi*
11H-7, 57–61	99.77	2.92	1.49	*Cibicidoides* spp.	3.12	1.55	*G. scitula*
12H-1, 38–42	100.08	2.76	1.20	*Cibicidoides* spp.			
12H-1, 72–76	100.42	2.65	0.66	*Cibicidoides* spp.	2.55	0.97	*G. woodi*
12H-1, 108–112	100.78	2.61	1.01	*Cibicidoides* spp.			
12H-1, 134–138	101.04	2.44	0.65	*Cibicidoides* spp.			
12H-2, 0–4	101.20	2.39	0.69	*Cibicidoides* spp.	2.28	1.37	*G. woodi*
12H-2, 36–40	101.56	2.74	0.73	*Cibicidoides* spp.			
12H-2, 72–76	101.92	2.08	0.29	*N. umbonifer*			
		2.48	0.74	*Cibicidoides* spp.			
12H-2, 108–112	102.28	2.62	1.08	*Cibicidoides* spp.			
12H-2, 134–138	102.54	2.36	0.92	*Cibicidoides* spp.			
12H-3, 0–4	102.70	2.92	1.08	*Cibicidoides* spp.	2.27	0.84	*G. woodi*
12H-3, 38–42	103.08	2.68	1.25	*Cibicidoides* spp.			
12H-3, 72–76	103.42	2.45	1.23	*Cibicidoides* spp.	2.34	1.30	*G. woodi*
12H-3, 108–112	103.78	2.64	1.21	*Cibicidoides* spp.			
12H-3, 134–138	104.04	2.59	1.24	*Cibicidoides* spp.			
		2.63	1.21	*Cibicidoides* spp.			
		2.68	1.13	*Cibicidoides* spp.			
12H-4, 0–4	104.20	2.51	1.14	*C. wuellerstorfi*	2.37	1.38	*G. woodi*
		2.35	0.62	*N. umbonifer*	2.32	1.39	*G. bulloides*
		2.53	1.02	*N. umbonifer*			
		2.69	1.10	*Cibicidoides* spp.			
		2.70	1.13	*C. wuellerstorfi*			
12H-4, 38–42	104.58	3.07	0.57	*Gyroidina* sp.	2.33	1.44	*G. bulloides*
		3.21	0.80	*Gyroidina* sp.			
12H-4, 72–76	104.92	2.55	1.31	*C. wuellerstorfi*	2.23	1.88	*G. bulloides*
		2.29	0.57	*N. umbonifer*			
12H-4, 108–112	105.28	2.70	1.38	*Cibicidoides* spp.	2.19	1.44	*G. bulloides*
12H-4, 134–138	105.54	2.89	1.44	*C. wuellerstorfi*	2.37	1.51	*Globigerina*
		2.70	1.26	*C. wuellerstorfi*			
12H-5, 0–4	105.70	2.79	1.33	*Cibicidoides* spp.	2.45	1.53	*Globigerina*
12H-5, 36–40	106.06	2.73	1.46	*Cibicidoides* spp.	2.26	1.57	*Globigerina*
12H-5, 72–76	106.42	2.56	1.57	*Cibicidoides* spp.	2.37	1.57	*Globigerina*
		2.54	1.43	*Cibicidoides* spp.			
		1.93	0.43	*N. umbonifer*			
		2.53	1.40	*C. wuellerstorfi*			
12H-5, 108–112	106.78	2.58	1.43	*Cibicidoides* spp.	2.42	1.48	*Globigerina*
12H-5, 134–138	107.04	2.61	1.34	*C. wuellerstorfi*	2.31	1.79	*Globigerina*
		2.08	0.68	*N. umbonifer*			
		2.37	1.46	*Cibicidoides* spp.			
12H-6, 0–4	107.20	2.26	1.01	*N. umbonifer*	2.23	1.77	*Globigerina*
		2.37	1.43	*Cibicidoides* spp.			

Table 2 (continued).

Core, section, interval (cm)	Depth (mbsf)	Benthic			Planktonic		
		$\delta^{18}O$	$\delta^{13}C$	Species	$\delta^{18}O$	$\delta^{13}C$	Species
12H-6, 38–42	107.58	2.28	1.13	*N. umbonifer*	2.29	1.61	*Globigerina*
12H-6, 72–76	107.92	2.12	0.97	*N. umbonifer*	2.28	1.73	*Globigerina*
		2.32	1.61	*C. wuellerstorfi*			
12H-6, 108–112	108.28	2.56	1.68	*Cibicidoides* spp.	1.95	1.66	*Globigerina*
12H-6, 132–138	108.54	2.35	1.70	*C. pachyderma*	2.03	1.78	*Globigerina*
		2.51	1.77	*C. mundulus*			
12H-7, 0–4	108.70	2.59	1.88	*Cibicidoides* spp.	1.90	1.86	*Globigerina*
		2.55	1.90	*Cibicidoides* spp.			
		2.39	1.06	*N. umbonifer*			
12H-7, 23–27	108.93	2.54	1.81	*C. mundulus*	2.08	1.90	*Globigerina*
		2.35	1.14	*N. umbonifer*			
12H-7, 44–48	109.14	2.62	1.52	*Cibicidoides* spp.	2.11	1.65	*Globigerina*
		2.68	1.99	*Cibicidoides* spp.			
12H-CC	109.20	2.64	1.58	*Cibicidoides* spp.			
13H-1, 45–49	109.65	1.88	0.97	*N. umbonifer*	1.56	1.57	*Globigerina*
		2.14	1.47	*Cibicidoides* spp.			
13H-1, 65–69	109.85	1.50	1.10	*N. umbonifer*	1.94	1.46	*Globigerina*
		1.53	1.12	*C. pachyderma*			
13H-1, 85–89	110.05	1.74	1.49	*Cibicidoides* spp.	1.32	1.82	*Globigerina*
13H-1, 110–114	110.30	1.69	1.48	*C. mundulus*	1.82	1.87	*Globigerina*
		1.46	1.11	*N. umbonifer*			
13H-1, 134–138	110.54	2.17	1.73	*Cibicidoides* spp.	1.95	1.76	*Globigerina*
13H-2, 13–17	110.83	1.94	1.23	*C. mundulus*	1.93	1.58	*Globigerina*
		2.02	1.55	*Cibicidoides* spp.			
13H-2, 36–40	111.06	1.68	1.60	*Cibicidoides* spp.	1.79	1.55	*Globigerina*
13H-2, 65–69	111.35	1.46	1.75	*C. mundulus*	2.18	1.53	*Globigerina*
13H-2, 110–114	111.80	1.78	1.70	*Cibicidoides* spp.	1.48	1.89	*Globigerina*
		1.56	1.03	*N. umbonifer*			
13H-2, 134–138	112.04	1.76	1.65	*Cibicidoides* spp.	1.43	2.07	*Globigerina*
13H-3, 13–17	112.33	1.74	1.63	*Cibicidoides* spp.	1.48	2.12	*Globigerina*
13H-3, 36–49	112.56	1.81	1.70	*Cibicidoides* spp.	1.66	2.05	*Globigerina*
		1.62	1.22	*N. umbonifer*			
13H-3, 65–69	112.85	2.01	1.88	*Cibicidoides* spp.	1.59	1.78	*Globigerina*
13H-3, 110–114	113.30	1.83	1.59	*Cibicidoides* spp.	1.84	1.62	*Globigerina*
		1.62	0.91	*N. umbonifer*			
		1.71	1.40	*N. umbonifer*			
13H-3, 134–138	113.54	1.70	1.57	*Cibicidoides* spp.	0.80	1.95	*Globigerina*
13H-4, 14–18	113.84	1.80	1.64	*Cibicidoides* spp.	1.75	1.66	*G. woodi*
13H-4, 37–41	114.07	1.93	1.51	*Cibicidoides* spp.	1.06	2.01	*Globigerina*
		1.79	1.62	*Cibicidoides* spp.			
13H-4, 65–69	114.35	1.70	1.75	*C. pachyderma*	1.01	1.99	*Globigerina*
		1.27	1.32	*C. pachyderma*			
13H-4, 86–90	114.56	2.63	2.01	*Cibicidoides* spp.	1.38	2.00	*Globigerina*
13H-4, 135–138	115.05	1.58	1.53	*C. pachyderma*	1.58	1.77	*Globigerina*
13H-5, 14–18	115.34	1.92	1.88	*Cibicidoides* spp.			
13H-5, 36–40	115.56	1.81	1.86	*Cibicidoides* spp.	1.35	2.42	*G. woodi*
13H-5, 65–69	115.85	1.24	1.28	*Cibicidoides* spp.	0.82	2.56	
		1.30	1.31	*Cibicidoides* spp.			
13H-5, 111–115	116.31	1.65	1.29	*N. umbonifer*	1.28	2.26	*G. woodi*
		1.77	1.76	*Cibicidoides* spp.			
13H-5, 135–138	116.55	1.87	1.71	*Cibicidoides* spp.	1.75	1.66	*Globigerina*
		1.67	1.57	*Cibicidoides* spp.			
13H-6, 0–4	116.70	1.74	1.79	*Cibicidoides* spp.	1.48	2.23	*Globigerina*
13H-6, 37–41	117.07	1.48	1.68	*Cibicidoides* spp.			
13H-6, 65–69	117.35	1.43	1.59	*C. pachyderma*	1.17	2.34	*Globigerina*
		1.46	1.65	*C. pachyderma*			
13H-6, 86–90	117.56	1.31	1.52	*Cibicidoides* spp.			
		1.51	1.53	*Cibicidoides* spp.			
13H-6, 111–115	117.81	1.36	1.67	*Cibicidoides* spp.	1.10	2.24	*G. woodi*
		1.29	1.28	*N. umbonifer*			
13H-7, 4–8	118.24	1.88	1.74	*Cibicidoides* spp.	1.69	1.37	*Globigerina*
		1.66	1.29	*N. umbonifer*			
13H-7, 24–28	118.44	1.84	1.54	*Cibicidoides* spp.			
		1.68	1.08	*N. umbonifer*			
13H-CC	118.70	1.40	1.33	*Cibicidoides* spp.			
14H-2, 36–40	120.56	1.39	1.51	*Cibicidoides* spp.	1.23	2.21	*Globigerina*
14H-5, 36–40	125.06	1.77	1.77	*Cibicidoides* spp.	1.46	1.99	*G. zealandica*
14H-CC	128.20	1.15	0.93	*Cibicidoides* spp.			
15H-2, 36–40	130.06	1.57	1.67	*Cibicidoides* spp.	1.55	1.92	*G. zealandica*
					1.58	2.09	*Globigerina*
15H-5, 36–40	134.56	1.36	1.72	*Cibicidoides* spp.	1.67	2.07	*Globigerina*
15H-CC	137.70	1.76	1.52	*Cibicidoides* spp.			
16H-1, 36–40	138.06	2.09	1.59	*Cibicidoides* spp.	1.81	1.01	*N. umbonifer*
16H-2, 36–40	139.56	2.13	0.90	*Cibicidoides* spp.	2.20	1.74	*G. praebulloides*
		1.90	1.06	*N. umbonifer*			
16H-3, 36–40	141.06	1.81	1.24	*Cibicidoides* spp.	2.19	1.83	*G. praebulloides*

Table 2 (continued).

Core, section, interval (cm)	Depth (mbsf)	Benthic			Planktonic		
		$\delta^{18}O$	$\delta^{13}C$	Species	$\delta^{18}O$	$\delta^{13}C$	Species
		1.73	0.69	*N. umbonifer*			
16H-4, 36–40	142.56	2.25	1.57	*Cibicidoides* spp.	2.57	1.88	*G. falconensis*
		2.09	1.01	*N. umbonifer*			
16H-5, 36–40	144.06	1.95	1.43	*Cibicidoides* spp.	2.07	1.47	*G. praebulloides*
16H-6, 36–40	145.56	2.03	1.53	*Cibicidoides* spp.	2.02	2.17	*G. praebulloides*
		2.02	1.11	*N. umbonifer*			
16H-7, 36–40	147.06	2.07	1.38	*Cibicidoides* spp.	2.31	1.76	*G. praebulloides*
		1.91	1.05	*N. umbonifer*			
16H-CC	147.20	1.94	1.23	*Cibicidoides* spp.			
17H-2, 36–40	149.06	2.03	1.18	*Cibicidoides* spp.	2.11	1.82	*G. praebulloides*
17H-4, 86–90	152.56	2.12	0.97	*Cibicidoides* spp.	1.89	1.57	*G. praebulloides*
17H-5, 36–41	153.56	1.52	0.21	*N. umbonifer*	1.59	1.49	*G. praebulloides*
		1.58	0.75	*Cibicidoides* spp.			
17H-6, 36–40	155.06	1.70	0.93	*Cibicidoides* spp.	1.80	1.45	*C. dissimilis*
17H-7, 36–40	156.56	1.99	0.77	*Cibicidoides* spp.	1.94	1.18	*C. dissimilis*
17H-CC	156.70	1.71	0.43	*Cibicidoides* spp.			
18H-2, 36–40	158.56	2.07	1.21	*Cibicidoides* spp.			
		1.81	0.78	*N. umbonifer*			
18H-5, 36–40	163.06	1.73	0.39	*N. umbonifer*	1.77	1.57	*C. dissimilis*
		1.72	0.67	*Cibicidoides* spp.			
18H-CC	166.20	1.87	1.05	*Cibicidoides* spp.			

Notes: No adjustments have been applied and no outliers are excluded.

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Table 2

Table 2. Carbonate data from Hole 751A as weight percent of bulk sediment.

Core, section, interval (cm)	Depth (mbsf)	$CaCO_3$	Location of laboratory
120-751A-			
1H-1, 70	0.70	11.0	ODP
1H-2, 48	1.98	15.2	ODP
1H-3, 30	3.30	71.3	ODP
2H-2, 70	6.90	31.2	ODP
2H-3, 70	8.40	35.2	ODP
2H-4, 30	9.50	1.4	ODP
3H-1, 70	14.90	0.7	ODP
3H-2, 70	16.40	0.4	ODP
3H-3, 70	17.90	0.8	ODP
3H-4, 70	19.40	13.1	ODP
3H-5, 70	20.90	11.2	ODP
4H-2, 78	25.98	4.4	BU
4H-2, 92	26.12	2.5	BU
4H-2, 110	26.30	2.9	BU
4H-2, 110	26.30	0.1	ODP
4H-2, 128	26.48	2.5	BU
4H-2, 132	26.52	2.4	BU
4H-3, 20	26.90	3.0	BU
4H-3, 30	27.00	3.6	BU
4H-3, 34	27.04	2.3	BU
4H-3, 56	27.26	2.4	BU
4H-3, 67	27.37	3.0	BU
4H-3, 67	27.37	0.2	ODP
4H-3, 78	27.48	2.2	BU
4H-3, 78	27.48	2.3	BU
4H-3, 92	27.62	2.3	BU
4H-3, 113	27.83	3.6	BU
4H-3, 128	27.98	2.6	BU
4H-3, 132	28.02	2.3	BU
4H-4, 20	28.40	2.9	BU
4H-4, 30	28.50	2.8	BU
4H-4, 34	28.54	2.9	BU
4H-4, 56	28.76	2.4	BU
4H-4, 67	28.87	2.6	BU
4H-4, 67	28.87	0.3	ODP
4H-4, 78	28.98	2.9	BU
4H-4, 92	29.12	3.6	BU
4H-4, 112	29.32	18.9	BU
4H-4, 112	29.32	18.0	BU
4H-4, 132	29.52	29.2	BU
4H-4, 132	29.52	28.7	BU
4H-5, 20	29.90	12.5	BU
4H-5, 20	29.90	11.5	BU
4H-5, 30	30.00	7.0	BU
4H-5, 34	30.04	9.5	BU
4H-5, 56	30.26	8.2	BU
4H-5, 67	30.37	29.3	BU
4H-5, 67	30.37	28.8	BU
4H-5, 67	30.37	23.7	ODP
4H-5, 78	30.48	17.8	BU
4H-5, 78	30.48	16.9	BU
4H-5, 92	30.62	7.4	BU
4H-5, 113	30.83	3.7	BU
4H-5, 128	30.98	3.3	BU
4H-5, 132	31.02	3.8	BU
4H-6, 20	31.40	3.3	BU
4H-6, 30	31.50	3.1	BU
4H-6, 34	31.54	2.9	BU
4H-6, 56	31.76	2.8	BU
4H-6, 70	31.90	2.9	BU
4H-6, 70	31.90	0.2	ODP
4H-6, 78	31.98	2.7	BU
4H-6, 92	32.12	2.3	BU
4H-6, 113	32.33	2.4	BU
4H-6, 128	32.48	2.2	BU
4H-6, 132	32.52	2.3	BU
4H-7, 34	33.04	8.1	BU
4H-7, 34	33.04	8.4	BU
5H-1, 20	33.40	2.5	BU
5H-1, 30	33.50	2.3	BU
5H-1, 34	33.54	2.7	BU
5H-1, 56	33.76	2.3	BU
5H-1, 70	33.90	0.2	ODP
5H-1, 70	33.90	2.2	BU
5H-1, 78	33.98	2.0	BU

Table 2 (continued).

Core, section, interval (cm)	Depth (mbsf)	$CaCO_3$	Location of laboratory
5H-1, 92	34.12	2.2	BU
5H-1, 115	34.35	2.1	BU
5H-1, 123	34.43	0.0	BU
5H-1, 128	34.48	2.4	BU
5H-1, 132	34.52	2.3	BU
5H-2, 20	34.90	2.3	BU
5H-2, 30	35.00	2.2	BU
5H-2, 34	35.04	2.0	BU
5H-2, 50	35.20	1.4	BU
5H-2, 50	35.20	0.0	BU
5H-2, 56	35.26	1.6	BU
5H-2, 70	35.40	0.1	ODP
5H-2, 70	35.40	1.5	BU
5H-2, 78	35.48	1.5	BU
5H-2, 92	35.62	1.5	BU
5H-2, 115	35.85	1.3	BU
5H-2, 115	35.85	2.1	BU
5H-2, 121	35.91	0.0	BU
5H-2, 128	35.98	1.4	BU
5H-2, 132	36.02	1.2	BU
5H-3, 20	36.40	1.4	BU
5H-3, 30	36.50	2.1	BU
5H-3, 34	36.54	1.7	BU
5H-3, 50	36.70	0.0	BU
5H-3, 56	36.76	1.7	BU
5H-3, 70	36.90	0.1	ODP
5H-3, 70	36.90	1.7	BU
5H-3, 78	36.98	1.6	BU
5H-3, 92	37.12	1.6	BU
5H-3, 115	37.35	1.5	BU
5H-3, 120	37.40	1.3	BU
5H-3, 120	37.40	0.0	BU
5H-3, 128	37.48	1.5	BU
5H-3, 132	37.52	1.8	BU
5H-4, 20	37.90	1.8	BU
5H-4, 30	38.00	1.7	BU
5H-4, 34	38.04	1.2	BU
5H-4, 48	38.18	0.0	BU
5H-4, 56	38.26	1.3	BU
5H-4, 70	38.40	0.1	ODP
5H-4, 70	38.40	2.0	BU
5H-4, 78	38.48	1.6	BU
5H-4, 92	38.62	1.0	BU
5H-4, 115	38.85	1.3	BU
5H-4, 121	38.91	0.0	BU
5H-4, 128	38.98	0.4	BU
5H-4, 132	39.02	1.1	BU
5H-5, 20	39.40	1.8	BU
5H-5, 30	39.50	2.2	BU
5H-5, 34	39.54	1.9	BU
5H-5, 51	39.71	0.3	BU
5H-5, 51	39.71	1.7	BU
5H-5, 56	39.76	2.1	BU
5H-5, 70	39.90	0.1	ODP
5H-5, 70	39.90	2.0	BU
5H-5, 78	39.98	2.1	BU
5H-5, 92	40.12	46.8	BU
5H-5, 115	40.35	72.1	BU
5H-5, 121	40.41	69.2	BU
5H-5, 128	40.48	76.8	BU
5H-5, 132	40.52	77.7	BU
5H-5, 132	40.52	77.2	BU
5H-6, 20	40.90	68.0	BU
5H-6, 30	41.00	77.2	BU
5H-6, 30	41.00	74.5	ODP
5H-6, 34	41.04	75.0	BU
5H-6, 48	41.18	69.9	BU
5H-6, 56	41.26	73.0	BU
5H-6, 56	41.26	73.6	BU
6H-1, 54	43.24	68.9	BU
6H-1, 56	43.26	67.9	BU
6H-1, 70	43.40	67.1	ODP
6H-1, 70	43.40	69.8	BU
6H-1, 78	43.48	68.7	BU
6H-1, 78	43.48	69.1	BU
6H-1, 92	43.62	67.1	BU
6H-1, 115	43.85	72.2	BU
6H-1, 121	43.91	63.9	BU

Table 2 (continued).

Core, section, interval (cm)	Depth (mbsf)	$CaCO_3$	Location of laboratory
6H-1, 128	43.98	70.1	BU
6H-1, 128	43.98	70.4	BU
6H-1, 132	44.02	68.1	BU
6H-2, 20	44.40	59.7	BU
6H-2, 30	44.50	61.1	BU
6H-2, 34	44.54	61.1	BU
6H-2, 51	44.71	58.4	BU
6H-2, 56	44.76	60.2	BU
6H-2, 70	44.90	60.1	ODP
6H-2, 70	44.90	55.5	BU
6H-2, 78	44.98	65.9	BU
6H-2, 115	45.35	78.8	BU
6H-2, 115	45.35	79.6	BU
6H-2, 121	45.41	77.6	BU
6H-2, 128	45.48	80.8	BU
6H-2, 132	45.52	82.0	BU
6H-3, 20	45.90	82.1	BU
6H-3, 30	46.00	80.7	BU
6H-3, 34	46.04	66.0	BU
6H-3, 51	46.21	75.1	BU
6H-3, 56	46.26	79.4	BU
6H-3, 70	46.40	71.2	ODP
6H-3, 70	46.40	73.2	BU
6H-3, 78	46.48	69.8	BU
6H-3, 92	46.62	68.5	BU
6H-3, 115	46.85	68.3	BU
6H-3, 121	46.91	66.5	BU
6H-3, 128	46.98	71.3	BU
6H-3, 128	46.98	75.4	BU
6H-3, 132	47.02	79.2	BU
6H-4, 20	47.40	78.9	BU
6H-4, 30	47.50	77.6	BU
6H-4, 30	47.50	77.3	BU
6H-4, 34	47.54	72.7	BU
6H-4, 51	47.71	70.8	BU
6H-4, 56	47.76	77.6	BU
6H-4, 70	47.90	74.7	ODP
6H-4, 70	47.90	78.5	BU
6H-4, 70	47.90	80.7	BU
6H-4, 78	47.98	80.6	BU
6H-4, 91	48.11	81.5	BU
6H-4, 115	48.35	79.1	BU
6H-4, 121	48.41	70.8	BU
6H-4, 128	48.48	78.3	BU
6H-4, 132	48.52	57.7	BU
6H-5, 20	48.90	86.5	BU
6H-5, 20	48.90	83.7	BU
6H-5, 30	49.00	86.6	BU
6H-5, 30	49.00	86.0	BU
6H-5, 34	49.04	84.2	BU
6H-5, 51	49.21	65.2	BU
6H-5, 56	49.26	67.8	BU
6H-5, 70	49.40	68.2	ODP
6H-5, 70	49.40	72.4	BU
6H-5, 78	49.48	68.6	BU
6H-5, 78	49.48	69.2	BU
6H-5, 92	49.62	72.3	BU
6H-5, 115	49.85	62.4	BU
6H-5, 121	49.91	70.5	BU
6H-5, 128	49.98	76.7	BU
6H-5, 132	50.02	76.2	BU
6H-6, 20	50.40	76.6	BU
6H-6, 34	50.54	76.5	BU
6H-6, 34	50.54	80.1	BU
6H-6, 48	50.68	69.8	BU
6H-6, 56	50.76	67.0	BU
6H-6, 70	50.90	64.1	ODP
6H-6, 70	50.90	70.1	BU
6H-6, 78	50.98	71.6	BU
6H-6, 92	51.12	55.4	BU
6H-6, 115	51.35	76.3	BU
6H-6, 119	51.39	65.2	BU
6H-6, 128	51.48	60.2	BU
6H-6, 132	51.52	62.6	BU
6H-7, 20	51.90	73.1	BU
6H-7, 30	52.00	67.9	BU
6H-7, 30	52.00	72.6	BU
6H-7, 34	52.04	65.3	BU

Table 2 (continued).

Core, section, interval (cm)	Depth (mbsf)	$CaCO_3$	Location of laboratory
6H-7, 48	52.18	59.2	BU
7H-1, 56	52.76	70.2	BU
7H-1, 78	52.98	51.4	BU
7H-1, 78	52.98	52.5	BU
7H-1, 92	53.12	70.5	BU
7H-1, 128	53.48	65.7	BU
7H-1, 132	53.52	56.8	BU
7H-1, 132	53.52	57.8	BU
7H-2, 20	53.90	79.6	BU
7H-2, 30	54.00	80.8	BU
7H-2, 34	54.04	78.1	BU
7H-2, 51	54.21	74.3	BU
7H-2, 56	54.26	79.7	BU
7H-2, 70	54.40	78.9	ODP
7H-2, 70	54.40	72.6	BU
7H-2, 74	54.44	72.5	BU
7H-2, 92	54.62	85.8	BU
7H-2, 115	54.85	85.3	BU
7H-2, 121	54.91	79.0	BU
7H-2, 128	54.98	86.4	BU
7H-2, 132	55.02	86.4	BU
7H-3, 20	55.40	88.4	BU
7H-3, 30	55.50	87.9	BU
7H-3, 34	55.54	87.9	BU
7H-3, 51	55.71	59.6	BU
7H-3, 56	55.76	87.7	BU
7H-3, 70	55.90	83.5	ODP
7H-3, 70	55.90	86.3	BU
7H-3, 78	55.98	84.7	BU
7H-3, 92	56.12	80.9	BU
7H-3, 115	56.35	91.2	BU
7H-3, 121	56.41	83.1	BU
7H-3, 128	56.48	89.4	BU
7H-3, 132	56.52	83.7	BU
7H-4, 20	56.90	85.9	BU
7H-4, 20	56.90	88.0	BU
7H-4, 30	57.00	89.2	BU
7H-4, 34	57.04	87.2	BU
7H-4, 51	57.21	85.3	BU
7H-4, 56	57.26	89.9	BU
7H-4, 70	57.40	81.6	ODP
7H-4, 70	57.40	85.0	BU
7H-4, 78	57.48	84.7	BU
7H-4, 92	57.62	83.1	BU
7H-4, 115	57.85	80.8	BU
7H-4, 121	57.91	82.4	BU
7H-4, 128	57.98	72.1	BU
7H-4, 132	58.02	86.7	BU
7H-5, 20	58.40	84.5	BU
7H-5, 30	58.50	83.9	BU
7H-5, 34	58.54	84.5	BU
7H-5, 56	58.76	78.6	BU
7H-5, 56	58.76	79.7	BU
7H-5, 70	58.90	74.6	ODP
7H-5, 70	58.90	79.0	BU
7H-5, 78	58.98	78.0	BU
7H-5, 92	59.12	76.9	BU
7H-5, 115	59.35	86.2	BU
7H-5, 121	59.41	87.0	BU
7H-5, 128	59.48	86.4	BU
7H-5, 132	59.52	93.5	BU
7H-6, 20	59.90	88.2	BU
7H-6, 30	60.00	89.5	BU
7H-6, 34	60.04	87.9	BU
7H-6, 70	60.40	85.6	ODP
7H-6, 92	60.62	80.9	BU
7H-6, 121	60.91	71.4	BU
7H-7, 30	61.50	76.6	ODP
8H-2, 128	64.48	69.7	BU
8H-2, 132	64.52	68.5	BU
8H-3, 20	64.90	78.4	BU
8H-3, 30	65.00	59.3	BU
8H-3, 34	65.04	62.5	BU
8H-3, 56	65.26	63.9	BU
8H-3, 70	65.40	73.4	BU
8H-3, 70	65.40	69.2	ODP
8H-3, 78	65.48	75.1	BU
8H-3, 92	65.62	74.9	BU

Table 2 (continued).

Core, section, interval (cm)	Depth (mbsf)	$CaCO_3$	Location of laboratory
8H-3, 115	65.85	64.6	BU
8H-3, 128	65.98	75.8	BU
8H-3, 132	66.02	74.0	BU
8H-4, 20	66.40	74.1	BU
8H-4, 30	66.50	67.0	BU
8H-4, 30	66.50	68.4	BU
8H-4, 34	66.54	68.5	BU
8H-4, 56	66.76	46.1	BU
8H-4, 70	66.90	46.7	BU
8H-4, 70	66.90	42.0	ODP
8H-4, 78	66.98	46.2	BU
8H-4, 92	67.12	56.2	BU
8H-4, 115	67.35	59.1	BU
8H-4, 128	67.48	61.3	BU
8H-5, 20	67.90	44.6	BU
8H-5, 30	68.00	49.6	BU
8H-5, 34	68.04	50.5	BU
8H-5, 56	68.26	52.4	BU
8H-5, 70	68.40	45.3	BU
8H-5, 70	68.40	42.3	ODP
8H-5, 78	68.48	39.9	BU
8H-5, 92	68.62	50.0	BU
8H-5, 115	68.85	54.0	BU
8H-5, 128	68.98	50.3	BU
8H-5, 132	69.02	52.0	BU
8H-6, 20	69.40	50.3	BU
8H-6, 30	69.50	53.0	BU
8H-6, 34	69.54	45.2	BU
8H-6, 56	69.76	44.0	BU
9H-1, 20	71.40	67.7	BU
9H-1, 30	71.50	68.5	BU
9H-1, 34	71.54	67.1	BU
9H-1, 56	71.76	63.7	BU
9H-1, 70	71.90	70.5	BU
9H-1, 70	71.90	69.1	ODP
9H-1, 92	72.12	69.6	BU
9H-1, 115	72.35	67.5	BU
9H-1, 128	72.48	66.9	BU
9H-1, 132	72.52	65.6	BU
9H-2, 20	72.90	57.4	BU
9H-2, 30	73.00	63.9	BU
9H-2, 34	73.04	62.8	BU
9H-2, 56	73.26	53.4	BU
9H-2, 56	73.26	56.6	BU
9H-2, 70	73.40	55.0	BU
9H-2, 70	73.40	51.1	ODP
9H-2, 78	73.48	51.5	BU
9H-2, 92	73.62	49.0	BU
9H-2, 92	73.62	50.0	BU
9H-2, 115	73.85	59.6	BU
9H-2, 128	73.98	55.2	BU
9H-2, 132	74.02	57.0	BU
9H-3, 20	74.40	58.1	BU
9H-3, 30	74.50	51.4	BU
9H-3, 30	74.50	51.6	BU
9H-3, 34	74.54	58.3	BU
9H-3, 56	74.76	64.7	BU
9H-3, 70	74.90	58.0	BU
9H-3, 70	74.90	55.5	ODP
9H-3, 74	74.94	51.3	BU
9H-3, 92	75.12	48.1	BU
9H-3, 92	75.12	49.1	BU
9H-3, 115	75.35	67.8	BU
9H-3, 128	75.48	58.6	BU
9H-3, 132	75.52	58.2	BU
9H-4, 20	75.90	53.7	BU
9H-4, 30	76.00	66.5	BU
9H-4, 34	76.04	72.1	BU
9H-4, 56	76.26	64.1	BU
9H-4, 56	76.26	63.7	BU
9H-4, 70	76.40	82.5	BU
9H-4, 70	76.40	79.8	ODP
9H-4, 92	76.62	79.0	BU
9H-4, 115	76.85	83.6	BU
9H-5, 20	77.40	83.3	BU
9H-5, 30	77.50	80.4	BU
9H-5, 56	77.76	81.8	BU
9H-5, 70	77.90	78.3	BU

Table 2 (continued).

Core, section, interval (cm)	Depth (mbsf)	$CaCO_3$	Location of laboratory
9H-5, 70	77.90	76.6	ODP
9H-5, 78	77.98	80.3	BU
9H-5, 92	78.12	84.6	BU
9H-5, 115	78.35	79.9	BU
9H-5, 128	78.48	76.1	BU
9H-5, 132	78.52	80.3	BU
9H-6, 20	78.90	81.7	BU
9H-6, 30	79.00	70.7	BU
9H-6, 56	79.26	69.6	BU
9H-6, 70	79.40	72.7	BU
9H-6, 70	79.40	69.4	ODP
9H-6, 78	79.48	73.0	BU
9H-6, 92	79.62	74.1	BU
9H-6, 115	79.85	73.9	BU
9H-6, 128	79.98	73.9	BU
9H-6, 132	80.02	74.0	BU
9H-6, 132	80.02	73.7	BU
9H-7, 20	80.40	74.1	BU
9H-7, 30	80.50	73.9	BU
9H-7, 56	80.76	75.2	BU
9H-7, 70	80.90	74.0	BU
10H-1, 20	80.90	75.9	BU
10H-1, 20	80.90	74.3	BU
9H-7, 70	80.90	69.8	ODP
9H-7, 78	80.98	73.6	BU
10H-1, 34	81.04	79.4	BU
9H-7, 91	81.11	72.4	BU
9H-7, 91	81.11	71.9	BU
10H-1, 70	81.40	82.6	BU
10H-1, 70	81.40	80.0	ODP
10H-1, 78	81.48	78.5	BU
10H-1, 92	81.62	81.0	BU
10H-1, 115	81.85	85.1	BU
10H-1, 128	81.98	83.0	BU
10H-1, 132	82.02	82.1	BU
10H-2, 20	82.40	83.0	BU
10H-2, 20	82.40	82.5	BU
10H-2, 30	82.50	83.2	BU
10H-2, 34	82.54	84.7	BU
10H-2, 56	82.76	86.5	BU
10H-2, 70	82.90	80.7	BU
10H-2, 70	82.90	79.2	ODP
10H-2, 78	82.98	80.3	BU
10H-2, 92	83.12	81.9	BU
10H-2, 115	83.35	85.7	BU
10H-2, 115	83.35	86.6	BU
10H-2, 128	83.48	84.1	BU
10H-2, 132	83.52	84.6	BU
10H-3, 20	83.90	87.2	BU
10H-3, 30	84.00	85.4	BU
10H-3, 34	84.04	87.8	BU
10H-3, 56	84.26	85.9	BU
10H-3, 70	84.40	86.5	BU
10H-3, 70	84.40	84.6	ODP
10H-3, 78	84.48	86.2	BU
10H-3, 92	84.62	85.3	BU
10H-3, 115	84.85	79.2	BU
10H-3, 128	84.98	83.3	BU
10H-3, 132	85.02	84.0	BU
10H-4, 20	85.40	72.9	BU
10H-4, 20	85.40	77.9	BU
10H-4, 30	85.50	77.7	BU
10H-4, 34	85.54	79.0	BU
10H-4, 56	85.76	71.4	BU
10H-4, 56	85.76	76.8	BU
10H-4, 70	85.90	76.4	BU
10H-4, 70	85.90	72.7	ODP
10H-4, 78	85.98	75.4	BU
10H-4, 78	85.98	72.8	BU
10H-4, 92	86.12	77.1	BU
10H-4, 115	86.35	81.2	BU
10H-4, 128	86.48	82.0	BU
10H-4, 132	86.52	84.3	BU
10H-5, 20	86.90	80.6	BU
10H-5, 30	87.00	80.3	BU
10H-5, 34	87.04	81.8	BU
10H-5, 56	87.26	81.8	BU
10H-5, 70	87.40	84.7	BU

Table 2 (continued).

Core, section, interval (cm)	Depth (mbsf)	$CaCO_3$	Location of laboratory
10H-5, 70	87.40	80.1	ODP
10H-5, 78	87.48	83.2	BU
10H-5, 78	87.48	82.7	BU
10H-5, 92	87.62	83.4	BU
10H-5, 115	87.85	85.6	BU
10H-5, 128	87.98	85.0	BU
10H-5, 132	88.02	85.9	BU
10H-6, 20	88.40	82.1	BU
10H-6, 30	88.50	83.1	BU
10H-6, 34	88.54	84.4	BU
10H-6, 56	88.76	78.9	BU
10H-6, 70	88.90	82.5	BU
10H-6, 78	88.98	85.8	BU
10H-6, 92	89.12	86.2	BU
10H-6, 115	89.35	83.8	BU
10H-6, 128	89.48	81.4	BU
10H-6, 132	89.52	80.7	BU
10H-7, 20	89.90	78.0	BU
10H-7, 30	90.00	85.9	BU
10H-7, 34	90.04	87.0	BU
10H-7, 56	90.26	84.7	BU
11H-1, 20	90.40	81.1	BU
11H-1, 20	90.40	84.0	BU
11H-1, 30	90.50	82.5	BU
11H-1, 34	90.54	85.5	BU
11H-1, 56	90.76	85.6	BU
11H-1, 70	90.90	83.1	BU
11H-1, 70	90.90	80.1	ODP
11H-1, 78	90.98	87.9	BU
11H-1, 92	91.12	89.3	BU
11H-1, 115	91.35	92.3	BU
11H-1, 128	91.48	93.5	BU
11H-1, 132	91.52	92.6	BU
11H-2, 20	91.90	92.5	BU
11H-2, 20	91.90	91.4	BU
11H-2, 30	92.00	90.5	BU
11H-2, 34	92.04	88.7	BU
11H-2, 56	92.26	83.8	BU
11H-2, 70	92.40	88.7	BU
11H-2, 70	92.40	86.0	ODP
11H-2, 78	92.48	89.6	BU
11H-2, 92	92.62	89.1	BU
11H-2, 92	92.62	89.2	BU
11H-2, 115	92.85	88.7	BU
11H-2, 115	92.85	87.4	BU
11H-2, 128	92.98	84.5	BU
11H-2, 128	92.98	83.9	BU
11H-2, 132	93.02	85.9	BU
11H-3, 20	93.40	87.7	BU
11H-3, 30	93.50	92.0	BU
11H-3, 34	93.54	92.0	BU
11H-3, 56	93.76	92.4	BU
11H-3, 70	93.90	89.2	BU
11H-3, 70	93.90	87.2	ODP
11H-3, 76	93.96	89.4	BU
11H-3, 92	94.12	88.9	BU
11H-3, 115	94.35	87.2	BU
11H-3, 128	94.48	88.4	BU
11H-3, 132	94.52	87.8	BU
11H-4, 20	94.90	84.3	BU
11H-4, 30	95.00	84.8	BU
11H-4, 34	95.04	82.8	BU
11H-4, 56	95.26	80.9	BU
11H-4, 70	95.40	78.8	BU
11H-4, 70	95.40	77.5	ODP
11H-4, 78	95.48	78.4	BU
11H-4, 78	95.48	77.9	BU
11H-4, 92	95.62	75.7	BU
11H-4, 115	95.85	71.6	BU
11H-4, 128	95.98	61.5	BU
11H-4, 132	96.02	61.3	BU
11H-4, 135	96.05	64.2	BU
11H-5, 20	96.40	72.4	BU
11H-5, 30	96.50	74.3	BU
11H-5, 34	96.54	75.5	BU
11H-5, 56	96.76	85.8	BU
11H-5, 70	96.90	82.5	BU
11H-5, 70	96.90	80.2	ODP
11H-5, 78	96.98	82.0	BU

Table 2 (continued).

Core, section, interval (cm)	Depth (mbsf)	$CaCO_3$	Location of laboratory
11H-5, 92	97.12	78.3	BU
11H-5, 92	97.12	78.6	BU
11H-5, 115	97.35	85.5	BU
11H-5, 128	97.48	80.9	BU
11H-5, 132	97.52	76.2	BU
11H-6, 20	97.90	79.7	BU
11H-6, 30	98.00	72.0	BU
11H-6, 34	98.04	73.1	BU
11H-6, 56	98.26	76.8	BU
11H-6, 70	98.40	75.5	BU
11H-6, 70	98.40	72.3	ODP
11H-6, 78	98.48	74.9	BU
11H-6, 92	98.62	73.5	BU
11H-6, 115	98.85	55.6	BU
11H-6, 128	98.98	56.6	BU
11H-6, 132	99.02	56.6	BU
11H-7, 20	99.40	57.7	BU
11H-7, 30	99.50	57.4	BU
11H-7, 34	99.54	57.9	BU
11H-7, 56	99.76	44.4	BU
11H-7, 56	99.76	44.6	BU
12H-1, 20	99.90	66.8	BU
12H-1, 30	100.00	65.5	BU
12H-1, 34	100.04	59.1	BU
12H-1, 56	100.26	53.0	BU
12H-1, 70	100.40	47.2	BU
12H-1, 70	100.40	42.9	ODP
12H-1, 78	100.48	33.0	BU
12H-1, 78	100.48	32.1	BU
12H-1, 92	100.62	53.4	BU
12H-1, 115	100.85	54.5	BU
12H-1, 128	100.98	63.1	BU
12H-1, 132	101.02	60.2	BU
12H-2, 20	101.40	49.2	BU
12H-2, 30	101.50	50.2	BU
12H-2, 34	101.54	43.6	BU
12H-2, 56	101.76	32.4	BU
12H-2, 56	101.76	31.6	BU
12H-2, 70	101.90	52.9	BU
12H-2, 70	101.90	46.7	ODP
12H-2, 74	101.94	53.3	BU
12H-2, 92	102.12	40.0	BU
12H-2, 115	102.35	56.9	BU
12H-2, 128	102.48	58.4	BU
12H-2, 132	102.52	60.4	BU
12H-3, 20	102.90	65.4	BU
12H-3, 30	103.00	65.7	BU
12H-3, 34	103.04	65.2	BU
12H-3, 56	103.26	70.2	BU
12H-3, 70	103.40	68.5	BU
12H-3, 70	103.40	67.3	ODP
12H-3, 78	103.48	68.9	BU
12H-3, 92	103.62	56.8	BU
12H-3, 92	103.62	55.5	BU
12H-3, 115	103.85	63.2	BU
12H-3, 132	104.02	68.8	BU
12H-4, 20	104.40	76.9	BU
12H-4, 30	104.50	72.6	BU
12H-4, 34	104.54	71.4	BU
12H-4, 56	104.76	69.5	BU
12H-4, 70	104.90	68.8	BU
12H-4, 70	104.90	65.7	ODP
12H-4, 74	104.94	67.6	BU
12H-4, 92	105.12	71.5	BU
12H-4, 115	105.35	71.9	BU
12H-4, 132	105.52	69.5	BU
12H-5, 20	105.90	63.1	BU
12H-5, 30	106.00	66.2	BU
12H-5, 34	106.04	62.9	BU
12H-5, 56	106.26	71.6	BU
12H-5, 70	106.40	71.5	BU
12H-5, 70	106.40	69.6	ODP
12H-5, 78	106.48	72.9	BU
12H-5, 92	106.62	61.2	BU
12H-5, 115	106.85	61.3	BU
12H-5, 132	107.02	64.5	BU
12H-6, 20	107.40	64.7	BU
12H-6, 30	107.50	60.0	BU
12H-6, 34	107.54	59.0	BU

Table 2 (continued).

Core, section, interval (cm)	Depth (mbsf)	$CaCO_3$	Location of laboratory
12H-6, 56	107.76	63.3	BU
12H-6, 70	107.90	64.8	BU
12H-6, 70	107.90	58.6	ODP
12H-6, 77	107.97	67.0	BU
12H-6, 92	108.12	61.3	BU
12H-6, 92	108.12	60.1	BU
12H-6, 115	108.35	53.6	BU
12H-6, 115	108.35	51.0	BU
12H-6, 128	108.48	43.2	BU
12H-6, 128	108.48	39.5	BU
12H-6, 132	108.52	34.6	BU
12H-6, 132	108.52	32.4	BU
12H-7, 20	108.90	34.1	BU
12H-7, 20	108.90	33.5	BU
12H-7, 30	109.00	29.0	BU
12H-7, 34	109.04	29.0	BU
12H-7, 34	109.04	26.7	BU
13H-1, 34	109.54	80.7	BU
13H-1, 34	109.54	80.3	BU
13H-1, 56	109.76	79.7	BU
13H-1, 70	109.90	77.1	BU
13H-1, 70	109.90	74.6	ODP
13H-1, 78	109.98	77.4	BU
13H-1, 92	110.12	78.8	BU
13H-1, 115	110.35	74.7	BU
13H-1, 128	110.48	79.2	BU
13H-1, 132	110.52	81.7	BU
13H-2, 20	110.90	81.6	BU
13H-2, 30	111.00	80.1	BU
13H-2, 34	111.04	78.8	BU
13H-2, 56	111.26	69.2	BU
13H-2, 56	111.26	69.0	BU
13H-2, 70	111.40	63.2	BU
13H-2, 70	111.40	64.2	BU
13H-2, 70	111.40	58.5	ODP
13H-2, 78	111.48	56.8	BU
13H-2, 78	111.48	55.1	BU
13H-2, 92	111.62	52.8	BU
13H-2, 92	111.62	52.7	BU
13H-2, 115	111.85	80.2	BU
13H-2, 128	111.98	78.4	BU
13H-2, 132	112.02	85.1	BU
13H-3, 20	112.40	86.3	BU
13H-3, 30	112.50	89.4	BU
13H-3, 34	112.54	89.3	BU
13H-3, 56	112.76	89.5	BU
13H-3, 70	112.90	87.8	BU
13H-3, 70	112.90	83.6	ODP
13H-3, 78	112.98	86.5	BU
13H-3, 92	113.12	83.6	BU
13H-3, 115	113.35	81.0	BU
13H-3, 128	113.48	83.6	BU
13H-3, 132	113.52	79.8	BU
13H-3, 132	113.52	81.4	BU
13H-4, 20	113.90	78.3	BU
13H-4, 30	114.00	75.5	BU
13H-4, 34	114.04	75.8	BU
13H-4, 56	114.26	75.4	BU
13H-4, 70	114.40	52.0	BU
13H-4, 70	114.40	52.0	BU
13H-4, 70	114.40	45.3	ODP
13H-4, 78	114.48	34.8	BU
13H-4, 78	114.48	33.0	BU
13H-4, 92	114.62	36.7	BU
13H-4, 92	114.62	38.4	BU
13H-4, 115	114.85	29.7	BU
13H-4, 128	114.98	26.5	BU
13H-4, 128	114.98	26.4	BU
13H-4, 132	115.02	28.2	BU
13H-5, 20	115.40	86.1	BU
13H-5, 30	115.50	88.0	BU
13H-5, 34	115.54	88.2	BU
13H-5, 56	115.76	93.0	BU
13H-5, 70	115.90	92.8	BU
13H-5, 70	115.90	91.1	ODP
13H-5, 78	115.98	91.7	BU
13H-5, 92	116.12	91.3	BU
13H-5, 92	116.12	91.9	BU
13H-5, 128	116.48	89.8	BU

Table 2 (continued).

Core, section, interval (cm)	Depth (mbsf)	$CaCO_3$	Location of laboratory
13H-5, 132	116.52	91.1	BU
13H-6, 20	116.90	92.4	BU
13H-6, 30	117.00	92.5	BU
13H-6, 34	117.04	92.2	BU
13H-6, 56	117.26	91.4	BU
13H-6, 70	117.40	69.7	BU
13H-6, 78	117.48	93.0	BU
13H-6, 92	117.62	92.6	BU
13H-6, 128	117.98	93.4	BU
13H-6, 132	118.02	92.1	BU
13H-7, 20	118.40	92.1	BU
13H-7, 34	118.54	92.0	BU
14H-1, 20	118.90	59.9	BU
14H-1, 20	118.90	58.4	BU
14H-1, 34	119.04	38.0	BU
14H-1, 34	119.04	38.6	BU
14H-1, 77	119.47	27.3	BU
14H-1, 77	119.47	26.2	BU
14H-1, 130	120.00	47.7	BU
14H-1, 130	120.00	47.7	BU
14H-2, 20	120.40	86.8	BU
14H-2, 30	120.50	91.4	BU
14H-2, 34	120.54	92.2	BU
14H-2, 70	120.90	93.2	BU
14H-2, 76	120.96	91.8	BU
14H-2, 115	121.35	89.8	BU
14H-3, 20	121.90	93.9	BU
14H-3, 30	122.00	95.3	BU
14H-3, 34	122.04	94.5	BU
14H-3, 70	122.40	88.7	BU
14H-3, 70	122.40	83.6	ODP
14H-3, 76	122.46	89.9	BU
14H-3, 130	123.00	94.9	BU
14H-4, 20	123.40	88.1	BU
14H-4, 30	123.50	94.5	BU
14H-4, 30	123.50	91.6	BU
14H-4, 34	123.54	92.5	BU
14H-4, 70	123.90	93.2	BU
14H-4, 70	123.90	87.5	ODP
14H-4, 76	123.96	87.6	BU
14H-4, 115	124.35	85.4	BU
14H-5, 20	124.90	79.6	BU
14H-5, 30	125.00	82.7	BU
14H-5, 34	125.04	83.3	BU
14H-5, 70	125.40	74.3	BU
14H-5, 70	125.40	70.9	ODP
14H-5, 76	125.46	72.2	BU
14H-5, 130	126.00	52.3	BU
14H-5, 130	126.00	51.7	BU
14H-6, 20	126.40	57.6	BU
14H-6, 20	126.40	56.9	BU
14H-6, 30	126.50	71.1	BU
14H-6, 34	126.54	63.4	BU
14H-6, 77	126.97	72.3	BU
14H-7, 20	127.90	54.6	BU
14H-7, 30	128.00	49.5	BU
14H-7, 34	128.04	46.9	BU
14H-7, 34	128.04	45.6	BU
15H-1, 20	128.40	70.7	BU
14H-7, 70	128.40	64.5	BU
14H-7, 70	128.40	61.2	ODP
14H-7, 77	128.47	64.7	BU
15H-1, 30	128.50	70.3	BU
15H-1, 34	128.54	72.1	BU
15H-1, 64	128.84	72.4	BU
15H-1, 70	128.90	71.8	BU
15H-1, 115	129.35	74.8	BU
15H-2, 20	129.90	77.6	BU
15H-2, 30	130.00	82.9	BU
15H-2, 34	130.04	83.8	BU
15H-2, 77	130.47	76.1	BU
15H-2, 87	130.57	71.3	ODP
15H-2, 88	130.58	74.2	BU
15H-2, 115	130.85	72.0	BU
15H-3, 20	131.40	67.9	BU
15H-3, 30	131.50	72.9	BU
15H-3, 34	131.54	72.0	BU
15H-3, 70	131.90	74.3	BU
15H-3, 70	131.90	74.1	ODP

Table 2 (continued).

Core, section, interval (cm)	Depth (mbsf)	$CaCO_3$	Location of laboratory
15H-3, 77	131.97	74.2	BU
15H-3, 115	132.35	80.1	BU
15H-4, 20	132.90	83.7	BU
15H-4, 30	133.00	84.0	BU
15H-4, 70	133.40	87.3	BU
15H-4, 70	133.40	84.6	ODP
15H-4, 77	133.47	86.6	BU
15H-4, 115	133.85	88.9	BU
15H-5, 20	134.40	85.1	BU
15H-5, 30	134.50	86.8	BU
15H-5, 34	134.54	86.0	BU
15H-5, 70	134.90	83.9	BU
15H-5, 70	134.90	84.9	ODP
15H-5, 77	134.97	86.4	BU
15H-5, 115	135.35	88.9	BU
15H-6, 20	135.90	91.0	BU
15H-6, 30	136.00	88.9	BU
15H-6, 34	136.04	86.8	BU
15H-6, 70	136.40	88.5	BU
15H-6, 70	136.40	85.4	ODP
15H-6, 77	136.47	87.0	BU
15H-6, 115	136.85	90.8	BU
15H-7, 20	137.40	85.9	BU
15H-7, 34	137.54	86.3	BU
16H-1, 20	137.90	86.1	BU
16H-1, 20	137.90	84.5	BU
16H-1, 30	138.00	86.7	BU
16H-1, 34	138.04	89.7	BU
16H-1, 70	138.40	87.9	BU
16H-1, 70	138.40	86.0	ODP
16H-1, 77	138.47	88.2	BU
16H-1, 115	138.85	86.2	BU
16H-2, 20	139.40	84.9	BU
16H-2, 30	139.50	85.5	BU
16H-2, 34	139.54	85.2	BU
16H-2, 70	139.90	87.7	BU
16H-2, 70	139.90	85.6	ODP
16H-2, 77	139.97	86.9	BU
16H-2, 115	140.35	89.9	BU
16H-3, 20	140.90	91.4	BU
16H-3, 30	141.00	91.8	BU
16H-3, 70	141.40	92.4	BU
16H-3, 70	141.40	91.8	ODP
16H-3, 77	141.47	91.8	BU
16H-3, 115	141.85	87.1	BU
16H-4, 20	142.40	91.8	BU
16H-4, 30	142.50	92.0	BU
16H-4, 34	142.54	90.5	BU
16H-4, 70	142.90	91.3	BU
16H-4, 70	142.90	90.2	ODP
16H-4, 77	142.97	90.0	BU
16H-4, 115	143.35	92.2	BU
16H-5, 20	143.90	90.3	BU
16H-5, 30	144.00	91.8	BU
16H-5, 34	144.04	92.3	BU
16H-5, 70	144.40	89.0	BU
16H-5, 70	144.40	91.0	ODP
16H-5, 77	144.47	90.3	BU
16H-5, 115	144.85	89.3	BU
16H-6, 20	145.40	89.0	BU
16H-6, 30	145.50	88.3	BU
16H-6, 34	145.54	85.3	BU
16H-6, 34	145.54	84.2	BU
16H-6, 70	145.90	88.8	BU
16H-6, 70	145.90	87.6	ODP
16H-6, 77	145.97	89.1	BU
16H-6, 115	146.35	88.3	BU
16H-7, 20	146.90	88.3	BU
16H-7, 30	147.00	84.7	BU
16H-7, 34	147.04	84.7	BU
16H-7, 70	147.40	91.7	BU
17H-1, 20	147.40	88.7	BU
17H-1, 20	147.40	77.6	BU
16H-7, 77	147.47	90.2	BU
17H-1, 30	147.50	88.2	BU
17H-1, 34	147.54	89.0	BU
17H-1, 125	148.45	89.8	BU
17H-2, 20	148.90	92.2	BU
17H-2, 30	149.00	91.0	BU

Table 2 (continued).

Core, section, interval (cm)	Depth (mbsf)	$CaCO_3$	Location of laboratory
17H-2, 70	149.40	89.6	BU
17H-2, 70	149.40	88.1	ODP
17H-2, 77	149.47	88.8	BU
17H-2, 115	149.85	87.5	BU
17H-3, 20	150.40	76.4	BU
17H-3, 20	150.40	77.2	BU
17H-3, 30	150.50	82.9	BU
17H-3, 34	150.54	84.7	BU
17H-3, 70	150.90	83.3	BU
17H-3, 77	150.97	81.7	BU
17H-3, 77	150.97	81.0	BU
17H-3, 115	151.35	86.1	BU
17H-4, 77	152.47	87.2	BU
17H-4, 79	152.49	85.6	BU
17H-4, 132	153.02	81.1	BU
17H-5, 20	153.40	85.6	BU
17H-5, 30	153.50	85.8	BU
17H-5, 34	153.54	87.1	BU
17H-5, 70	153.90	88.0	BU
17H-5, 70	153.90	88.4	ODP
17H-5, 77	153.97	88.4	BU
17H-5, 115	154.35	86.5	BU
17H-6, 20	154.90	79.8	BU
17H-6, 30	155.00	79.8	BU
17H-6, 34	155.04	83.6	BU
17H-6, 70	155.40	83.8	BU
17H-6, 70	155.40	80.9	ODP
17H-6, 77	155.47	78.9	BU
17H-6, 115	155.85	67.5	BU
17H-6, 115	155.85	64.6	BU
17H-7, 20	156.40	66.0	BU
17H-7, 20	156.40	63.8	BU
17H-7, 30	156.50	78.9	BU
17H-7, 34	156.54	80.8	BU
18H-1, 30	[illegible]	76.7	BU
18H-1, 30	157.00	75.3	BU
18H-1, 34	157.04	78.1	BU
18H-1, 70	157.40	80.8	BU
18H-1, 70	157.40	78.1	ODP
18H-1, 77	157.47	78.0	BU
18H-1, 115	157.85	83.3	BU
18H-2, 20	158.40	81.6	BU
18H-2, 30	158.50	78.5	BU
18H-2, 34	158.54	79.4	BU
18H-2, 70	158.90	84.3	BU
18H-2, 70	158.90	84.1	ODP
18H-2, 77	158.97	84.1	BU
18H-2, 115	159.35	83.0	BU
18H-3, 20	159.90	92.7	BU
18H-3, 30	160.00	87.5	BU
18H-3, 34	160.04	88.1	BU
18H-3, 70	160.40	93.4	BU
18H-3, 70	160.40	92.9	ODP
18H-3, 77	160.47	92.2	BU
18H-3, 115	160.85	78.5	BU
18H-3, 115	160.85	76.9	BU
18H-4, 20	161.40	83.4	BU
18H-4, 34	161.54	84.9	BU
18H-4, 70	161.90	82.5	BU
18H-4, 70	161.90	80.9	ODP
18H-4, 77	161.97	81.0	BU
18H-4, 115	162.35	82.8	BU
18H-5, 20	162.90	83.6	BU
18H-5, 30	163.00	82.6	BU
18H-5, 34	163.04	85.4	BU
18H-5, 51	163.21	68.3	BU
18H-5, 51	163.21	66.2	BU
18H-5, 77	163.47	76.5	BU
18H-5, 115	163.85	84.1	BU
18H-6, 20	164.40	85.5	BU
18H-6, 30	164.50	74.1	BU
18H-6, 30	164.50	73.5	BU
18H-6, 34	164.54	74.3	BU
18H-6, 77	164.97	88.7	BU
18H-7, 20	165.90	87.8	BU
18H-7, 34	166.04	81.8	BU
18H-7, 77	166.47	84.6	BU

Note: ODP = shipboard data incorporated into this study, and BU = Brown University.