B21645 data repository

Maria B21645
200099

TABLE DR1. GRAIN-SIZE STATISTICS FOR SELECTED LAND AND MARINE SAMPLES

	Ø5	Ø16	Ø50	Ø84	Ø95	Mz	Sdl	Skl
Land Samples								
IC96-01	-1.58	-0.45	2.43	4.90	6.2	2.29	2.52	-0.05
IC96-02	1.96	2.20	2.83	3.72	4.20	2.92	0.72	0.20
IC96-03	2.08	2.34	3.12	3.86	4.48	3.11	0.74	0.05
IC96-04	-1.40	1.20	2.91	3.78	4.32	2.63	1.51	-0.42
IC96-05	1.45	2.08	2.56	3.15	3.80	2.60	0.62	0.08
IC96-06	-2.80	-2.34	1.30	3.38	4.60	0.78	2.55	-0.19
IC96-07	1.90	2.20	2.86	3.77	4.45	2.94	0.78	0.20
IC96-08	0.00	1.08	2.11	2.80	3.28	2.00	0.93	-0.24
IC96-09	0.03	0.67	1.57	2.55	3.22	1.60	0.95	0.04
IC96-10	-2.65	-1.92	-0.40	1.55	2.54	-0.26	1.65	0.13
IC96-11	-0.26	0.97	2.18	3.47	4.43	2.21	1.34	0.00
IC96-12	0.95	1.30	2.16	2.89	3.62	2.12	0.80	0.01
IC96-13	0.32	1.18	2.10	2.88	3.62	2.05	0.93	-0.08
IC96-14	-0.78	0.26	1.60	2.87	3.71	1.58	1.33	-0.04
Marine Samples								
43–01–S	3.24	4.02	4.98	6.6	7.4	5.20	1.28	0.21
52–01–S	3.59	4.60	6.1	7.5	8.4	6.07	1.45	-0.04
53–01–S	4.03	4.56	5.9	7.2	7.9	5.89	1.25	0.01
53-01-GGC (2-3 cm)	3.27	3.95	4.62	5.57	6.0	4.71	0.82	0.09
56–01–S	3.92	5.05	6.2	7.4	8.2	6.22	1.24	-0.02
61–01–S	2.08	3.07	5.19	7.4	8.8	5.22	2.10	0.05
61-02-GGC (2-3 cm)	2.25	3.03	4.13	5.7	6.5	4.29	1.31	0.15
69–01–S	0.40	1.06	1.58	2.34	2.95	1.66	0.71	0.13
71–01–S	-2.45	-1.79	-0.84	-0.14	0.66	-0.92	0.88	-0.09

Note: Ø50 = median diameter, Mz = graphic mean, Sdl = inclusive graphic standard deviation, Skl = inclusive graphic skewness.

Underlined numbers were extrapolated from cumulative curves plotted on probability paper.

TABLE DR2. MODAL ANALYSIS

	Tephra Fall	Floodplain Deposits				
Sample	IC96-01	IC96-03	IC96-07	IC96-12	IC96-13	IC96-14
Grain size (μm)	>125	>125	>125	>125	>125	>125
Components (%)						
Blocky glass	1.0	53.4	45.8	48.6	41.4	27.6
Mod. vesic. glass	34.2	21.8	26.2	21.8	27.0	39.8
Vesicular glass	58.0	4.8	4.0	4.2	2.6	16.8
Pipe vesic. glass	3.8	2.6	2.2	0.4	0.6	2.6
Clear glass	0.2	2.6	2.8	2.2	0.6	0.0
Lithics	0.6	1.4	4.0	5.6	9.4	3.6
Crystals	0.2	1.0	2.4	2.0	3.4	2.0
Tachylite	2.0	12.4	12.6	15.2	15.0	7.6
Basaltic glass	97.0	82.6	78.2	75.0	71.6	86.8
Total glass	97.2	85.2	81.0	77.2	72.2	86.8

	Gravity Cores						
Sample	53-01-GGC	55-01-GGC	59-01-GGC	59-01-GGC	59-01-GGC	61-02-GGC	61-02-GGC
Grain size (μm)	>125	>125	>63	>63	>63	>125	>125
Depth (cm)	1–3	1–3	2–3	28–30	120–121	0–2	19.5-21
Components (%)							
Blocky glass	29.8	9.0	16.4	27.6	34.0	23.4	12.4
Mod. vesic. glass	37.4	45.4	40.0	36.0	37.6	37.0	42.8
Vesicular glass	13.0	18.6	18.4	6.0	4.4	11.8	18.0
Pipe vesic. glass	1.2	1.2	2.2	1.0	2.2	1.2	1.0
Clear glass	1.6	2.4	3.2	5.4	1.2	1.2	2.2
Lithics	5.2	10.0	4.4	6.6	6.4	9.6	8.8
Crystals	1.0	1.2	1.6	3.4	2.0	3.0	0.8
Tachylite	10.8	12.2	13.8	14.0	12.2	12.8	14
Basaltic glass	81.4	74.2	77.0	70.6	78.2	73.4	74.2
Total glass	83.0	76.6	80.2	76.0	79.4	74.6	76.4

TABLE DR2. MODAL ANALYSIS (CONT.)

	Shipek Grabs											
Sample	41-01-S	42-01-S	43-01-S	44-01-S	45-01-S	46-01-S	47-01-S	48-01-S	49-01-S	50-01-S	51-01-S	52-01-S
Grain size (μm)	>125	>125	>125	>125	>125	>125	>125	>125	>125	>125	>125	>125
Components (%)												
Blocky glass	32.0	28.0	6.4	9.0	12.4	4.0	27.4	37.6	45.6	23.2	2.0	8.6
Mod. vesic. glass	23.2	37.8	32.4	16.2	34.0	36.6	38.4	36.0	28.0	44.4	39.8	49.4
Vesicular glass	3.8	6.8	25.4	6.0	7.4	25.8	5.8	1.0	5.0	7.6	33.2	18.8
Pipe vesic. glass	1.2	1.8	1.4	2.4	1.8	1.2	2.8	0.2	0.6	1.8	2.8	3.6
Clear glass	0.8	1.2	6.4	0.0	6.8	8.6	0.8	0.0	2.2	1.0	4.2	2.6
Lithics	13.8	10.8	4.4	12.6	6.4	7.2	6.0	8.6	4.8	6.8	4.4	4.0
Crystals	5.6	1.6	0.4	3.8	2.6	0.8	3.6	2.2	2.8	3.4	1.0	0.0
Tachylite	19.6	12.0	23.2	50.0	28.6	15.8	15.2	14.4	11.0	11.8	12.6	13.0
Basaltic glass	60.2	74.4	65.6	33.6	55.6	67.6	74.4	74.8	79.2	77.0	77.8	80.4
Total glass	61.0	75.6	72.0	33.6	62.4	76.2	75.2	74.8	81.4	78.0	82.0	83.0

	Shipek Grabs											
Sample	53-01-S	54-01-S	55-01-S	56-01-S	57-01-S	59-01-S	61-01-S	62-01-S	64-01-S	65-01-S	69-01-S	71-01-S
Grain size (μm)	>125	>125	>125	>125	>125	>125	>125	>125	>125	>125	>125	>125
Components (%)												
Blocky glass	22.6	34.4	5.2	5.6	6.2	6.6	24.2	4.4	3.4	10.0	2.4	3.6
Mod. vesic. glass	40.4	39.0	35.8	20.8	22.0	24.8	39.4	22.6	21.4	33.4	16.2	19.0
Vesicular glass	16.4	6.4	32.2	49.4	29.2	22.8	7.0	23.2	50.6	34.6	28.8	25.2
Pipe vesic. glass	1.4	2.2	3.0	3.4	2.8	3.8	2.2	1.8	3.6	2.4	2.4	1.4
Clear glass	2.8	1.0	2.6	3.6	0.6	19.2	2.6	3.2	1.4	2.0	0.6	1.0
Lithics	6.8	5.6	8.8	8.8	9.0	9.4	8.2	13.0	7.4	5.0	12.4	18.6
Crystals	1.6	1.4	2.0	1.2	1.0	0.6	2.4	0.0	0.8	0.4	2.4	2.6
Tachylite	8.0	10.0	10.4	7.2	29.2	12.8	14.0	31.8	11.4	12.2	34.8	28.6
Basaltic glass	80.8	82.0	76.2	79.2	60.2	58.0	72.8	52.0	79.0	80.4	49.8	49.2
Total glass	83.6	83.0	78.8	82.8	60.8	77.2	75.4	55.2	80.4	82.4	50.4	50.2

TABLE DR3. ELECTRON MICROPROBE ANALYSES OF LAND-BASED SAMPLES

	Tephra Fall		Vent Deposits			
Sample	IC96-01		Gjálp 1		Gjálp 2	
Size fraction	>250μ		>125μ		>125μ	
	avg.	std. dev.	avg.	std. dev.	avg.	std. dev.
Oxides (wt.%)						
SiO2	52.84	0.28	53.63	0.25	53.78	0.39
TiO2	2.70	0.10	2.70	0.08	2.58	0.11
Al2O3	12.78	0.12	12.67	0.15	12.74	0.22
FeO*	15.13	0.34	15.48	0.32	15.34	0.39
MnO	0.30	0.06	0.28	0.05	0.35	0.08
MgO	3.15	0.12	2.96	0.09	2.79	0.08
CaO	7.78	0.24	7.59	0.22	7.44	0.12
Na2O	3.09	0.11	3.03	0.12	3.04	0.20
K2O	0.76	0.06	0.86	0.05	0.91	0.06
P2O5	0.89	0.07	1.13	0.09	1.03	0.05
Total	99.43	0.63	100.34	0.49	99.99	0.74
n	22		10		12	

	Jökulhlaup Deposits									
Sample	IC96-03		IC96-07		IC96-12		IC96-13		IC96-14	
Size fraction	>125μ		>125μ		>125μ		>125μ		>250μ	
	avg.	std. dev.	avg.	std. dev.	avg.	std. dev.	avg.	std. dev.	avg.	std. dev.
Oxides (wt.%)										
SiO2	50.52	1.50	50.32	0.39	49.58	0.53	49.24	0.31	50.66	0.64
TiO2	2.63	0.46	2.85	0.20	2.48	0.44	2.82	0.67	2.77	0.50
Al2O3	13.76	0.54	13.49	0.29	13.92	0.66	13.46	0.71	13.79	0.95
FeO*	13.05	1.31	13.65	0.67	12.87	1.01	13.42	1.62	13.44	1.30
MnO	0.21	0.06	0.21	0.03	0.24	0.06	0.25	0.06	0.23	0.05
MgO	5.67	0.66	5.62	0.38	6.12	0.73	5.61	1.09	5.77	1.02
CaO	10.60	0.90	10.47	0.56	10.91	0.84	10.58	1.34	10.52	0.88
Na2O	2.67	0.20	2.69	0.14	2.50	0.18	2.66	0.27	2.58	0.22
K2O	0.45	0.21	0.39	0.05	0.34	0.08	0.43	0.13	0.40	0.15
P2O5	0.24	0.06	0.30	0.05	0.26	0.07	0.31	0.08	0.28	0.10
Total	99.80	0.47	99.99	0.46	99.22	0.55	98.79	0.61	100.44	0.78
n	18		14		10		10		14	

Note: FeO* = Total Fe as FeO, n = number of electron probe analyses.

Table DR4. TRACE ELEMENT COMPOSITIONS OF VENT DEPOSITS

Sample	Gjálp 1 (ppm)	Gjálp 2 (ppm)
Rb	17	19
Sr	216	218
Y	93	91
Zr	393	392
Nb	37	37
Ba	180	174
La	30	26
Ce	80	85
Cu	20	25
Zn	175	178
Ni	bd	bd

Note: bd = below detection limit

TABLE DR5. ELECTRON MICROPROBE ANALYSES OF SHIPEK GRAB SAMPLES

Sample	IC96-41-01-S		IC96-43-01-S		IC96-44-01-S		IC96-45-01-S				IC96-47-01-S			IC96-48-01-S			
Size	>125μ		>125μ		>125μ		>125μ				>125μ			>125μ			
Group	Low K2O		High K2O		High K2O		Low K2O		High K2O		Low K2O		High K.	Low K2O		High K2O	
	avg.	st. dev.	avg.	st. dev.	avg.	st. dev.	avg.	st. dev.	avg.	st. dev.	avg.	st. dev.	avg.	avg.	st. dev.	avg.	st. dev.
Oxides (wt. %)																	
SiO2	49.96	0.47	46.87	0.43	47.41	0.30	50.05	1.13	47.04	0.62	50.20	0.33	47.62	50.30	0.32	47.57	1.40
TiO2	2.46	0.64	4.67	0.18	4.53	0.10	2.37	0.38	4.44	0.27	2.71	0.30	4.81	2.57	0.53	4.45	0.10
Al2O3	13.62	0.70	12.83	0.25	12.87	0.15	13.71	0.15	12.93	0.16	13.70	0.35	12.77	13.68	0.55	13.06	0.12
FeO*	13.03	1.37	14.80	0.19	15.11	0.26	12.92	0.20	14.92	0.19	13.65	0.96	15.64	13.27	1.42	14.87	0.36
MnO	0.21	0.08	0.23	0.08	0.23	0.04	0.26	0.04	0.28	0.06	0.22	0.07	0.26	0.26	0.07	0.25	0.04
MgO	6.10	0.91	4.85	0.14	4.71	0.10	5.87	0.39	4.90	0.33	5.93	0.52	4.77	5.93	0.92	4.78	0.12
CaO	10.99	1.23	9.78	0.24	9.77	0.14	10.88	0.72	9.92	0.52	10.65	0.57	9.41	10.86	1.23	9.70	0.00
Na2O	2.40	0.47	2.94	0.08	2.95	0.13	2.54	0.13	2.85	0.15	2.53	0.29	3.09	2.43	0.14	2.87	0.00
K2O	0.31	0.10	0.69	0.04	0.76	0.04	0.29	0.12	0.67	0.09	0.40	0.04	0.79	0.33	0.12	0.66	0.02
P2O5	0.24	0.07	0.66	0.13	0.59	0.10	0.23	0.05	0.54	0.13	0.26	0.05	0.67	0.24	0.08	0.64	0.08
Total	99.32	0.41	98.33	0.94	98.93	0.27	99.11	0.64	98.48	0.59	100.25	0.35	99.84	99.87	1.05	98.86	1.32
n	9		6		8		6		4		9		1	7		2	

Sample	IC96-49-01-S			IC96-50-01-S		IC96-51-01-S			IC96-52-01-S		IC96-54-01-S				IC96-56-01-S	
Size	>63μ			>125μ		>125μ			>125μ		>125μ				>125μ	
Group	Low K2O		High K.	Low K2O		Low K.	High K2O		High K2O		Low K2O		High K2O		High K2O	
	avg.	st. dev.	avg.	avg.	st. dev.	avg.	avg.	st. dev.	avg.	st. dev.	avg.	st. dev.	avg.	st. dev.	avg.	st. dev.
Oxides (wt. %)																
SiO2	50.56	0.35	48.09	50.14	0.63	50.21	47.68	0.34	47.23	0.50	49.61	0.32	48.03	1.52	47.15	0.63
TiO2	2.78	0.29	4.61	2.80	0.30	1.94	4.70	0.13	4.55	0.16	2.65	0.37	4.30	0.30	4.61	0.21
Al2O3	13.52	0.28	12.92	13.58	0.26	13.75	13.03	0.22	12.72	0.26	13.67	0.52	13.06	0.50	12.73	0.15
FeO*	13.91	0.68	15.07	13.41	0.55	12.77	14.69	0.19	14.75	0.28	13.32	0.97	14.91	0.23	14.93	0.30
MnO	0.27	0.06	0.32	0.26	0.06	0.18	0.26	0.03	0.27	0.03	0.24	0.07	0.18	0.06	0.23	0.08
MgO	5.30	0.52	4.74	5.58	0.41	6.22	4.84	0.05	4.79	0.12	5.87	0.71	4.69	0.02	4.71	0.11
CaO	10.13	0.55	9.77	10.31	0.66	11.46	9.52	0.14	9.56	0.19	10.68	0.75	9.44	0.52	9.51	0.36
Na2O	2.75	0.09	3.05	2.68	0.14	2.36	2.99	0.07	2.95	0.06	2.60	0.13	2.90	0.16	3.03	0.15
K2O	0.42	0.04	0.70	0.43	0.08	0.23	0.69	0.04	0.78	0.07	0.36	0.05	0.65	0.01	0.83	0.07
P2O5	0.28	0.06	0.67	0.31	0.06	0.14	0.62	0.09	0.60	0.07	0.29	0.06	0.50	0.15	0.63	0.10
Total	99.93	0.53	99.94	99.49	0.47	99.26	99.02	0.53	98.20	0.53	99.28	0.72	98.67	1.15	98.37	0.34
n	7		1	10		1	6		7		8		2		8	

Note: FeO* = Total Fe as FeO; n = number of electron probe analyses

TABLE DR5. ELECTRON MICROPROBE ANALYSES OF SHIPEK GRAB SAMPLES (CONT.)

Sample	IC96-57-01-S				IC96-61-01-S				IC96-62-01-S				IC96-64-01-S		
Size	>125μ				>125μ				>125μ				>125μ		
Group	Low K2O		High K2O		Low K2O		High K2O		Low K2O		High K2O		Low K.	High K2O	
	avg.	st. dev.	avg.	st. dev.	avg.	st. dev.	avg.	st. dev.	avg.	st. dev.	avg.	st. dev.	avg.	avg.	st. dev.
Oxides (wt. %)															
SiO2	50.28	0.44	47.24	0.50	50.01	0.33	47.59	0.22	50.41	0.50	47.62	0.36	49.58	47.86	0.87
TiO2	2.74	0.65	4.70	0.20	2.55	0.29	3.46	0.03	2.57	0.45	4.65	0.11	2.73	4.29	0.46
Al2O3	13.62	0.45	12.96	0.15	13.73	0.51	13.30	0.01	13.57	0.46	12.84	0.18	13.31	12.68	0.27
FeO*	13.65	0.60	14.90	0.25	13.33	0.60	15.40	0.23	13.45	1.07	14.96	0.29	13.14	14.76	0.32
MnO	0.23	0.02	0.27	0.08	0.22	0.10	0.33	0.04	0.23	0.10	0.29	0.02	0.33	0.26	0.06
MgO	5.63	0.58	4.84	0.06	5.98	0.56	4.82	0.01	5.80	0.57	4.86	0.16	5.28	4.57	0.24
CaO	10.41	0.77	9.79	0.22	10.87	0.78	9.93	0.09	10.56	0.74	9.59	0.19	10.46	9.29	0.50
Na2O	2.65	0.21	2.99	0.09	2.55	0.19	3.20	0.04	2.66	0.18	2.99	0.05	2.65	3.02	0.15
K2O	0.36	0.10	0.74	0.05	0.34	0.07	0.59	0.00	0.35	0.08	0.70	0.05	0.45	0.84	0.08
P2O5	0.27	0.06	0.53	0.09	0.25	0.06	0.37	0.03	0.27	0.04	0.68	0.09	0.30	0.63	0.18
Total	99.85	0.55	98.96	0.55	99.82	0.58	98.99	0.34	99.87	0.59	99.18	0.71	98.23	98.20	0.62
n	4		6		6		3		5		5		1	6	

Sample	IC96-65-01-S				IC96-69-01-S		IC96-71-01-S			
Size	>125μ				>125μ		>125μ			
Group	Low K2O		High K2O		High K2O		Low K2O		High K2O	
	avg.	st. dev.	avg.	st. dev.	avg.	st. dev.	avg.	std. dev.	avg.	std. dev.
Oxides (wt. %)										
SiO2	49.87	0.33	47.39	0.58	47.88	0.99	49.86	0.13	47.74	0.31
TiO2	2.09	0.48	4.50	0.08	4.66	0.25	2.00	0.68	4.59	0.11
Al2O3	13.59	0.14	12.57	0.28	13.02	0.17	14.06	0.68	12.93	0.13
FeO*	13.38	0.31	14.90	0.32	14.88	0.51	12.42	2.13	14.93	0.09
MnO	0.24	0.04	0.25	0.06	0.23	0.06	0.18	0.03	0.23	0.04
MgO	6.07	0.56	4.72	0.11	4.65	0.26	6.71	0.99	4.76	0.11
CaO	10.93	0.56	9.48	0.10	9.65	0.36	11.95	2.03	9.79	0.21
Na2O	2.47	0.16	2.91	0.17	3.03	0.20	2.18	0.37	3.01	0.08
K2O	0.27	0.09	0.73	0.03	0.79	0.10	0.24	0.18	0.73	0.02
P2O5	0.18	0.05	0.66	0.07	0.59	0.06	0.21	0.11	0.60	0.08
Total	99.09	0.62	98.10	0.89	99.39	0.46	99.79	0.15	99.32	0.32
n	3		6		9		2		7	

Note: FeO* = Total Fe as FeO; n = number of electron probe analyses

TABLE DR6. ELECTRON MICROPROBE ANALYSES OF GRAVITY CORE SAMPLES

Sample	43-01-GGC				43-01-GGC				44-01-GGC				46-01-GGC		
Depth	(0-2 cm)				(94-96 cm)				(1-3 cm)				(0-2 cm)		
Size Fract.	>125μ				>125μ				>125μ				>125μ		
Group	Low K2O		High K2O		Low K2O		High K2O		Low K2O		High K2O		Low K.	High K2O	
	avg.	st. dev.	avg.	st. dev.	avg.	st. dev.	avg.	st. dev.	avg.	st. dev.	avg.	st. dev.	avg.	avg.	st. dev.
Oxides (wt. %)															
SiO2	50.36	0.52	47.79	0.82	50.90	0.98	48.25	0.50	50.08	0.20	47.45	0.30	50.42	47.58	0.49
TiO2	2.50	0.38	4.46	0.26	2.32	0.52	4.34	0.02	2.95	0.05	4.66	0.19	2.11	4.71	0.17
Al2O3	13.85	0.32	13.28	0.13	13.74	0.28	13.05	0.03	13.34	0.17	13.13	0.12	13.87	13.02	0.10
FeO*	13.17	0.73	14.93	0.28	13.22	1.02	14.94	0.35	14.24	1.09	15.00	0.07	12.64	15.00	0.19
MnO	0.22	0.04	0.23	0.09	0.20	0.07	0.28	0.09	0.28	0.05	0.27	0.04	0.30	0.32	0.07
MgO	5.84	0.51	5.02	0.27	5.60	1.20	4.79	0.24	5.34	0.43	4.77	0.20	6.41	4.76	0.08
CaO	11.04	0.62	10.26	0.64	10.63	1.34	9.70	0.46	10.13	0.42	9.78	0.22	11.84	9.67	0.29
Na2O	2.59	0.17	2.66	0.13	2.51	0.23	2.74	0.06	2.60	0.08	2.82	0.12	2.28	2.93	0.17
K2O	0.34	0.09	0.67	0.13	0.41	0.24	0.74	0.09	0.41	0.05	0.69	0.04	0.24	0.68	0.05
P2O5	0.22	0.06	0.41	0.08	0.34	0.29	0.58	0.07	0.29	0.04	0.52	0.05	0.20	0.73	0.10
Total	100.14	0.46	99.71	0.50	99.87	0.49	99.40	0.52	99.65	0.41	99.09	0.55	100.31	99.40	0.84
n	5		4		10		3		4		4		1	9	

Sample	46-01-GGC				49-01-GGC			53-01-GGC				53-01-GGC		53-01-GGC	
Depth	(99-100 cm)				(0-1 cm)			(1-3 cm)				(33-35 cm)		(71-72 cm)	
Size Fract.	>125μ				>125μ			>125μ				>125μ		>63μ	
Group	Low K2O		High K2O		Low K2O		High K.	Low K2O		High K2O		Low K2O		Low K2O	
	avg.	st. dev.	avg.	st. dev.	avg.	st. dev.	avg.	avg.	st. dev.	avg.	st. dev.	avg.	st. dev.	avg.	st. dev.
Oxides (wt. %)															
SiO2	50.39	0.34	47.67	0.14	50.26	0.41	47.90	49.85	0.17	47.59	0.47	50.21	0.31	50.32	0.36
TiO2	2.69	0.43	4.64	0.02	2.36	0.45	4.71	2.46	0.39	4.70	0.03	2.65	0.44	2.47	0.46
Al2O3	13.54	0.31	12.88	0.10	14.03	0.78	12.26	13.83	0.65	13.06	0.19	13.73	0.43	13.69	0.40
FeO*	13.44	0.57	14.78	0.34	13.01	1.11	15.97	12.80	1.08	15.08	0.13	13.13	1.03	13.27	1.06
MnO	0.23	0.09	0.24	0.07	0.18	0.08	0.20	0.29	0.06	0.20	0.01	0.21	0.07	0.28	0.06
MgO	5.73	0.51	4.92	0.16	6.30	0.83	4.58	6.13	0.73	4.92	0.04	5.81	0.70	6.00	0.66
CaO	10.36	0.68	9.68	0.04	11.04	0.82	9.34	11.08	0.89	9.65	0.16	10.68	0.88	10.88	1.00
Na2O	2.66	0.22	3.03	0.08	2.56	0.21	2.93	2.53	0.14	3.00	0.11	2.66	0.21	2.56	0.18
K2O	0.39	0.10	0.71	0.05	0.31	0.09	0.85	0.36	0.10	0.79	0.03	0.38	0.07	0.35	0.08
P2O5	0.28	0.09	0.65	0.06	0.23	0.07	0.52	0.25	0.07	0.75	0.03	0.25	0.06	0.23	0.05
Total	99.71	0.75	99.19	0.37	100.26	0.55	99.25	99.57	0.83	99.75	0.32	99.71	0.37	100.05	0.36
n	6		4		7		1	6		2		9		8	

Note: FeO* = Total Fe as FeO; n = number of electron probe analyses

TABLE DR6. ELECTRON MICROPROBE ANALYSES OF GRAVITY CORE SAMPLES (CONT.)

Sample	55-01-GGC				56-01 GGC				59-01-GGC				59-01-GGC		
Depth	(1-3 cm)				(182-183 cm)				(2-3 cm)				(28-30 cm)		
Size Fract.	>63μ				>125μ				>125μ				>125μ		
Group	Low K2O		High K2O		Low K2O		High K2O		Low K2O		High K2O		Low K2O		High K.
	avg.	st. dev.	avg.	st. dev.	avg.	st. dev.	avg.	st. dev.	avg.	st. dev.	avg.	st. dev.	avg.	st. dev.	avg.
Oxides (wt. %)															
SiO2	50.37	0.56	47.87	0.24	50.18	0.11	47.49	0.13	50.20	0.14	47.86	0.33	50.50	0.51	47.41
TiO2	2.70	0.12	4.53	0.17	2.84	0.12	4.57	0.10	2.57	0.03	4.69	0.08	2.71	0.53	4.55
Al2O3	13.63	0.03	12.89	0.15	13.39	0.14	12.95	0.11	13.78	0.19	12.85	0.19	13.60	0.55	12.72
FeO*	13.24	0.05	15.04	0.34	13.59	0.49	15.13	0.42	12.85	0.44	15.21	0.30	13.46	1.22	15.52
MnO	0.25	0.06	0.27	0.05	0.17	0.06	0.21	0.06	0.23	0.10	0.22	0.04	0.23	0.05	0.23
MgO	5.76	0.14	4.85	0.09	5.61	0.15	4.87	0.05	6.16	0.26	4.88	0.10	5.57	0.88	4.96
CaO	10.40	0.14	9.73	0.16	10.59	0.25	9.76	0.09	10.83	0.38	9.55	0.20	10.29	1.09	9.73
Na2O	2.76	0.01	2.98	0.14	2.63	0.07	2.96	0.07	2.62	0.00	3.00	0.06	2.68	0.25	3.09
K2O	0.36	0.01	0.70	0.06	0.39	0.02	0.71	0.04	0.32	0.00	0.74	0.04	0.39	0.09	0.69
P2O5	0.25	0.06	0.59	0.07	0.29	0.03	0.60	0.09	0.24	0.05	0.60	0.07	0.30	0.09	0.56
Total	99.72	0.39	99.45	0.58	99.68	0.67	99.25	0.59	99.81	0.46	99.59	0.74	99.74	0.50	99.48
n	2		9		4		8		2		6		9		1

Sample	59-01-GGC		61-02-GGC		61-02-GGC			
Depth	(120-121 cm)		(0-2 cm)		(19-21 cm)			
Size Fract.	>125μ		>125μ		>125μ			
Group	Low K2O		Low K2O		Low K2O		High K2O	
	avg.	st. dev.	avg.	st. dev.	avg.	st. dev.	avg.	st. dev.
Oxides (wt. %)								
SiO2	50.47	0.13	50.05	0.38	50.13	0.40	48.17	0.34
TiO2	2.61	0.55	2.76	0.54	2.65	0.39	3.95	0.74
Al2O3	13.47	0.42	13.59	0.50	13.79	0.39	13.22	0.32
FeO*	13.47	1.14	13.29	1.42	13.33	1.07	15.78	0.44
MnO	0.26	0.05	0.28	0.09	0.27	0.06	0.34	0.08
MgO	5.76	0.74	5.77	0.92	5.92	0.69	4.83	0.12
CaO	10.56	0.98	10.51	1.17	10.82	0.85	9.76	0.31
Na2O	2.64	0.16	2.62	0.22	2.62	0.18	3.23	0.12
K2O	0.35	0.09	0.42	0.12	0.39	0.09	0.70	0.10
P2O5	0.28	0.08	0.30	0.08	0.26	0.06	0.47	0.18
Total	99.87	0.41	99.59	0.62	100.17	0.47	100.44	0.85
n	9		9		7		3	

Note: FeO* = Total Fe as FeO; n = number of electron probe analyses