APPENDIX A
Grain-size Distribution Data, Mud, and Sand Components, Leg 119.
1. Site 739. 2. Site 742. 3. Site 743

Unit	Sample	Depth (mbsf)	Facies	<0ø	0-1ø	1-2ø	2-3ø	3-4ø	4-5ø	5-6ø	6-7ø	7-8ø	8-9ø	9-10ø	>10ø
I	739B-1X-1, 42	0.42	Dm	0.9	3.6	10.4	9.3	8.4	4.3	5.2	7.0	6.5	6.4	6.1	30.9
	739C-1R-1, 53	0.53	DM	6.0	5.6	9.9	8.9	7.3	3.5	5.8	7.9	5.3	5.5	2.5	31.5
	739A-1H-2, 74	2.24	Dm	9.3	8.2	11.1	10.3	8.8	5.5	7.3	5.0	1.8	5.9	1.0	25.8
	739A-1H-3, 75	3.75	Dm	9.4	8.3	11.8	10.3	8.3	6.5	5.9	4.2	3.8	4.2	3.2	24.1
	739A-2H-1, 18	4.78	DM	8.5	9.3	13.1	10.9	8.8	3.7	5.8	4.6	3.2	4.4	2.8	25.0
II	739C-4R-1, 86	24.96	Dm	8.1	8.4	12.8	10.8	7.9	2.4	4.3	4.5	4.0	3.9	3.8	29.1
	739C-4R-2, 44	26.04	Dm	9.4	7.8	11.7	9.2	6.3	14.9	3.7	3.8	3.6	4.1	2.6	22.8
	739C-4R-3, 47	27.57	Dm	5.3	7.4	11.9	10.5	7.9	8.6	5.1	5.1	3.4	3.3	2.9	28.6
	739C-4R-3, 95	28.05	Dm	7.2	8.3	12.3	11.4	8.4	7.1	3.9	4.0	3.6	3.4	3.7	26.7
	739C-5R-1, 75	29.45	Dm	16.3	5.7	10.4	9.5	8.7	3.9	4.9	4.8	5.6	3.1	0.1	26.8
	739C-5R-1, 142	30.12	Dm	5.5	7.9	12.0	11.3	8.5	6.2	5.2	4.9	3.7	3.7	3.8	27.4
	739C-5R-2, 75	30.95	Dm	7.7	7.7	11.5	10.2	8.6	9.0	4.4	4.6	3.6	3.1	3.0	26.6
	739C-13R-1, 74	106.64	Dm	12.0	7.0	11.1	10.1	8.0	8.5	5.2	5.2	3.5	3.5	4.6	21.0
	739C-13R-2, 18	107.58	Dm	9.0	10.6	14.8	11.3	8.3	6.2	7.0	2.7	5.3	1.3	1.9	21.7
	739C-14R-1, 75	116.25	Dm	11.9	7.4	13.8	11.2	8.4	9.4	4.2	3.9	4.5	3.9	5.0	16.1
	739C-14R-2, 105	118.05	Dm	18.0	4.1	10.5	14.4	11.2	6.6	5.3	4.4	5.0	4.9	6.1	9.8
	739C-15R-1, 106	126.26	Dm	7.0	9.6	13.9	11.0	7.6	5.2	5.1	4.0	3.9	3.5	4.5	24.5
	739C-16R-3, 94	134.24	Dm	7.5	10.3	14.6	11.2	7.4	4.3	4.8	4.1	3.5	4.4	3.4	24.7
	739C-17R-2, 107	137.57	Dm	5.0	10.1	14.6	11.7	7.8	4.7	5.2	3.8	4.6	1.6	5.6	25.2
	739C-18R-1, 53	140.53	Dm	6.3	6.8	11.4	9.2	7.6	19.8	4.5	4.6	4.9	5.7	3.3	15.2
	739C-18R-2, 80	142.30	Dm	4.7	7.4	11.6	10.2	8.6	7.6	6.3	5.4	7.7	8.2	6.1	15.8
	739C-19R-2, 110	147.30	Dw	7.8	8.1	11.7	10.5	9.2	6.2	6.8	5.6	6.5	6.1	6.0	15.0
	739C-20R-2, 101	152.21	Dm	7.9	8.3	13.2	11.9	9.4	6.5	6.6	3.5	4.3	3.9	3.9	20.6
	739C-21R-2, 105	156.85	Dm	4.5	9.6	15.0	12.9	9.6	5.2	7.0	4.9	4.3	3.8	5.8	18.2
	739C-22R-1, 95	160.25	Dm	5.0	9.7	12.8	10.2	7.1	3.8	5.3	4.6	4.7	3.8	5.9	26.8
	739C-23R-1, 70	164.70	Dm	10.4	8.7	13.5	14.1	5.7	4.5	5.1	4.7	4.3	6.3	5.9	16.5
	739C-23R-2, 98	166.48	Dm	5.7	9.2	14.2	11.7	7.6	4.7	5.0	4.7	3.7	5.2	7.2	21.2
III	739C-25R-1, 15	173.75	Dm	3.3	5.3	10.6	13.0	10.5	11.5	6.2	7.9	7.8	7.0	5.4	11.2
	739C-26R-2, 55	185.25	Dw	4.5	3.6	6.6	7.8	7.3	5.7	9.5	10.6	11.3	4.8	10.4	17.3
	739C-27R-1, 46	193.36	DM	0.9	2.2	5.3	6.4	6.0	7.6	12.7	11.9	12.1	9.7	7.9	17.2
	739C-28R-2, 102	205.02	Dw	6.4	8.1	17.9	22.5	8.9	3.5	7.5	5.7	5.3	4.2	2.8	6.5
	739C-29R-2, 104	214.74	Ds	5.5	9.5	12.0	12.9	9.7	5.4	7.3	6.1	7.0	3.1	7.9	13.7
	739C-29R-3, 128	216.48	Ds	1.8	3.9	7.1	10.1	11.5	10.3	8.9	9.0	9.3	3.0	9.5	15.3
	739C-30R-3, 92	225.72	Ds	13.4	6.8	8.9	6.6	5.1	4.0	6.6	7.5	9.4	8.7	5.8	17.2
	739C-30R-3, 136	226.16	Ds	1.7	3.8	6.9	7.8	9.3	9.8	6.3	10.6	9.7	10.5	7.5	15.7
	739C-31R-2, 105	233.95	Dw	4.4	5.5	8.8	9.7	8.9	6.4	8.3	9.8	9.3	3.9	10.0	15.1
	739C-31R-4, 105	236.95	Dm	4.4	4.6	7.9	8.1	6.7	6.4	9.5	10.8	10.0	8.6	7.1	15.8
	739C-31R-4, 110	237.00	Dm	3.0	6.2	9.9	9.9	8.6	6.3	9.3	9.8	9.2	7.2	6.1	13.8
	739C-32R-1, 73	241.83	SM	4.3	6.3	10.3	10.1	8.7	8.1	7.8	8.5	10.0	3.9	9.4	12.4
	739C-33R-2, 105	253.25	DM	1.9	4.1	7.1	8.2	7.3	6.8	7.9	8.5	11.4	9.4	9.5	18.2
	739C-33R-4, 105	256.25	Dw	1.4	3.8	7.1	8.3	8.1	7.7	10.4	11.0	9.6	8.4	7.5	17.0
	739C-33R-6, 90	259.10	Ds	1.5	2.8	5.5	6.8	7.9	6.8	10.0	9.9	11.2	10.5	8.0	19.0
	739C-34R-2, 105	262.95	Dm	1.9	3.3	5.8	6.7	6.3	8.2	10.3	13.1	12.5	8.8	8.3	15.0
	739C-34R-3, 38	263.78	Dw	0.6	1.6	3.8	5.9	8.2	7.6	10.0	13.0	13.0	8.4	9.6	18.5
	739C-34R-4, 96	265.86	Dm	6.5	4.9	6.9	8.0	8.1	5.8	11.1	9.9	10.9	4.5	9.5	14.2
IV	739C-35R-2, 91	272.41	Dm	2.6	2.4	3.9	4.6	4.3	7.0	8.5	12.4	13.8	10.1	11.4	18.9
	739C-36R-2, 103	282.23	Dm	2.2	2.9	5.3	6.0	6.0	4.1	10.3	11.1	13.3	10.3	10.2	18.6
	739C-36R-4, 100	285.20	R?	2.1	3.1	5.8	6.5	6.4	6.1	9.5	10.5	11.6	9.7	9.9	18.7
	739C-37R-1, 74	290.04	Dm	2.9	6.4	9.5	8.8	7.4	4.0	8.7	7.4	9.1	7.8	9.1	19.1
	739C-38R-1, 112	300.02	Dm	7.1	5.5	9.5	8.7	8.3	6.7	9.3	9.1	9.1	6.5	7.3	13.2
	739C-38R-2, 110	301.50	Dm	5.5	10.3	13.9	10.3	7.2	7.1	7.9	7.7	6.1	6.9	5.7	11.5
	739C-38R-3, 112	303.02	Dm	3.5	5.5	9.4	9.0	7.7	7.6	9.9	9.8	7.6	8.8	5.1	16.0
	739C-38R-4, 13	303.53	Dm	8.3	9.2	12.8	10.4	7.7	3.2	6.4	7.2	10.5	7.4	6.8	11.1
V	739C-40R-1, 28	318.48	Dm	4.5	9.9	13.6	9.9	7.6	3.5	8.8	8.3	8.5	8.1	5.7	11.6
	739C-41R-2, 107	330.37	Dm	3.0	7.0	10.3	9.1	7.5	6.0	8.3	8.3	13.2	4.8	7.1	15.3
	739C-42R-1, 119	338.69	Dm	7.6	7.6	12.3	10.3	6.9	5.3	6.3	8.0	9.7	8.7	7.5	9.8
	739C-42R-2, 102	340.02	Dm	5.3	9.9	13.6	10.3	6.9	5.5	3.6	4.0	4.9	5.7	7.8	22.1
	739C-43R-1, 39	347.49	Dm	5.6	12.2	15.2	9.9	6.5	3.0	5.5	4.5	7.4	9.7	8.1	12.2
	739C-44R-2, 119	359.49	Dm	6.7	8.6	12.6	9.8	6.8	4.6	4.4	5.1	7.9	10.7	8.5	13.9
	739C-45R-CC, 8	366.58	Dm	6.8	9.7	13.3	10.3	7.1	5.3	5.7	6.3	6.8	6.8	6.4	15.5
	739C-46R-2, 35	378.05	Dm	7.3	8.7	11.7	9.9	7.0	4.9	6.2	9.7	10.3	8.9	5.7	9.9
	739C-47R-1, 36	386.26	SM	4.9	6.9	9.8	8.5	6.1	4.9	5.3	4.3	6.9	7.6	8.7	26.0
	739C-48R-1, 105	396.65	Dm	3.2	8.5	11.7	9.7	6.4	4.2	4.0	4.3	6.9	10.0	10.4	20.6
	739C-50R-2, 25	416.65	Dm	4.5	8.0	11.3	9.4	6.2	3.6	6.8	6.9	8.1	9.2	8.1	17.9
	739C-51R-1, 105	425.55	Dm	6.9	7.0	10.1	8.3	6.2	2.5	6.6	7.6	9.8	11.9	8.6	14.1
	739C-52R-1, 100	435.20	SM	3.9	7.9	10.8	8.7	5.2	1.7	6.4	4.5	8.8	10.8	9.9	21.5
	739C-52R-CC, 4	436.50	Dm	1.9	3.4	5.3	5.2	5.6	11.0	4.9	16.4	12.9	10.7	7.9	14.8
	739C-53R-1, 64	439.84	Dm	5.9	9.7	12.0	9.7	5.9	3.7	3.8	4.4	5.8	6.1	7.7	25.3
	739C-54R-1, 77	444.67	Dm	8.4	9.2	11.9	9.2	5.6	3.9	4.3	4.9	5.7	8.2	7.6	21.1
	739C-56R-1, 61	454.11	Dm	11.5	6.3	8.2	7.5	5.0	3.6	4.0	4.7	6.4	8.4	10.2	24.2
	739C-57R-1, 64	459.14	Dm	4.9	10.3	12.6	9.6	5.8	3.7	3.6	4.2	6.6	8.8	12.7	17.2
	739C-58R-1, 105	464.25	Dm	6.0	9.4	13.0	9.9	5.7	3.3	3.9	7.8	12.2	10.1	9.1	9.6
	739C-58R-2, 105	465.75	Dm	3.4	6.4	8.2	6.8	4.6	3.0	5.6	4.7	8.4	11.0	13.2	24.7
	739C-59R-1, 38	468.58	Dm	3.6	6.7	8.5	6.8	4.6	4.3	4.0	5.5	6.2	9.4	9.7	30.6
	739C-60R-1, 108	473.98	Dm	4.0	6.9	8.6	6.8	4.8	5.3	3.3	5.2	7.8	8.8	9.5	29.0
	739C-62R-CC, 7	482.67	Dm	7.1	6.3	7.9	6.5	4.8	2.2	7.0	5.9	6.5	7.8	8.9	29.1

Unit	Sample	Depth (mbsf)	Facies	<0ø	0-1ø	1-2ø	2-3ø	3-4ø	4-5ø	5-6ø	6-7ø	7-8ø	8-9ø	9-10ø	>10ø
I	742A-1R-1, 70	0.70	Dm	6.0	8.7	13.3	13.3	10.2	6.1	7.2	4.0	3.4	3.1	4.1	20.6
II	742A-2R-1, 70	5.20	Dm	13.5	7.8	11.1	11.4	9.9	7.5	5.6	4.7	3.5	3.0	2.6	19.4
	742A-3R-1, 84	14.94	Dm	9.4	12.5	15.4	13.4	9.4	5.4	5.0	3.2	2.7	2.9	2.1	18.6
	742A-4R-1, 43	24.13	Dm	5.3	8.6	12.6	11.7	9.1	6.8	5.7	4.3	3.9	2.9	2.2	26.9
	742A-4R-1, 53	24.23	Dm	5.2	8.4	12.9	12.0	9.3	6.9	4.9	3.2	4.9	2.6	3.9	25.8
	742A-8R-3, 32	58.82	Dm	4.3	7.4	12.3	10.4	9.0	8.1	4.8	4.5	3.2	4.6	4.7	26.1
	742A-9R-1, 39	65.49	Dm	3.7	7.4	10.7	10.6	8.6	5.6	7.4	4.1	4.6	4.1	3.4	29.8
	742A-10R-1, 48	75.18	Dm	3.1	7.4	14.1	13.4	9.7	8.8	5.5	4.7	4.2	5.3	2.5	22.7
	742A-10R-2, 70	76.90	Dm	5.0	8.4	12.5	12.0	9.8	6.5	6.5	5.4	2.9	4.3	2.4	24.3
	742A-11R-1, 26	84.66	Dm	4.9	9.0	12.7	12.1	9.7	3.8	7.2	4.5	3.9	2.9	4.0	25.3
	742A-11R-1, 80	85.20	Dm	5.1	8.3	12.8	12.0	9.5	7.2	5.6	4.3	3.1	3.1	4.1	24.9
	742A-13R-1, 63	104.33	Dm	5.1	8.8	13.0	12.3	9.6	8.2	5.1	2.8	5.0	3.5	3.1	23.5
	742A-14R-1, 70	114.00	Dm	4.5	8.7	12.9	12.1	9.7	8.4	4.4	5.0	3.7	2.4	3.0	25.2
III	742A-14R-2, 70	115.50	Dw	3.5	2.2	3.6	3.5	3.2	1.4	5.3	7.3	13.0	13.1	10.9	33.0
	742A-14R-3, 70	117.00	Dw	3.9	4.8	7.6	7.2	5.7	5.4	7.1	9.6	11.4	9.8	6.5	20.0
	742A-15R-2, 70	125.20	Dw	7.2	4.8	7.3	7.2	5.8	2.3	5.0	5.2	8.4	7.4	6.6	32.8
	742A-15R-3, 48	126.48	Dm	3.4	6.4	11.0	9.5	6.7	6.1	5.9	6.3	5.0	7.6	3.2	28.3
	742A-16R-1, 72	133.42	Dw	7.2	3.7	5.5	6.0	4.9	5.2	3.6	4.4	5.7	6.2	5.8	41.8
IV	742A-17R-1, 70	143.00	Dm	5.0	9.5	13.7	11.4	7.8	3.8	6.1	3.3	4.4	3.9	3.8	27.3
	742A-18R-1, 73	152.73	Dm	6.0	9.1	13.4	11.0	7.6	4.6	5.5	3.3	3.7	5.7	6.4	23.7
	742A-19R-1, 40	162.10	Dm	6.1	9.4	13.6	11.3	7.9	3.9	5.6	5.3	3.4	4.3	5.5	23.7
V	742A-20R-3, 37	174.67	Dm	4.2	7.2	8.5	6.6	4.7	3.4	6.3	5.9	8.6	8.8	7.6	28.2
	742A-21R-1, 70	181.70	Dw	7.7	8.9	11.4	8.2	5.5	3.7	5.4	4.6	5.0	7.0	6.8	25.8
	742A-22R-2, 70	192.90	Dm	3.3	4.8	5.7	4.8	3.2	1.1	4.9	6.5	6.5	11.8	12.7	34.7
	742A-23R-1, 30	200.60	Dm	6.0	9.4	11.9	9.2	6.1	4.6	6.2	5.1	6.4	8.7	9.0	17.4
	742A-23R-1, 72	201.02	Dm	4.4	9.5	12.1	9.3	6.4	5.1	5.9	4.6	5.7	8.4	8.1	20.5
	742A-24R-1, 70	210.60	Dm	6.5	9.0	12.2	9.2	6.4	3.4	6.9	5.7	5.3	7.5	6.8	21.1
	742A-27R-1, 69	239.49	Dm	7.2	7.5	10.5	8.6	7.1	5.0	5.7	5.4	5.0	8.0	8.9	21.1
	742A-28R-1, 70	249.20	Dm	4.4	7.8	11.0	9.1	6.9	5.2	6.9	4.5	6.2	8.1	9.3	20.6
	742A-29R-1, 70	258.80	Dm	4.4	9.3	12.0	9.4	6.4	5.6	5.2	5.5	6.6	8.6	9.1	17.9
	742A-30R-1, 70	268.50	Dm	7.1	9.5	12.2	9.6	6.0	3.1	6.0	5.2	6.0	7.9	7.6	19.8
	742A-31R-1, 67	278.07	Dm	5.4	10.6	13.0	9.5	6.0	4.2	4.8	5.5	4.4	7.7	5.3	23.6
	742A-32R-1, 69	287.79	Dm	6.2	9.4	12.5	9.8	6.0	4.1	5.9	5.4	5.0	8.9	8.7	18.1
	742A-32R-2, 48	289.08	Dm	6.8	9.1	12.1	8.4	5.7	4.8	3.6	5.0	7.1	8.8	8.2	20.4
VI	742A-33R-6, 31	304.51	SMm	0.8	1.2	2.0	1.8	1.7	1.4	4.4	8.8	16.8	24.5	15.7	20.9
	742A-33R-6, 71	304.91	Ds	4.1	1.7	4.6	3.9	3.2	5.4	3.4	9.2	13.6	15.9	15.1	19.9
	742A-34R-1, 85	307.15	SMs	0.2	1.0	2.0	2.6	1.2	2.3	6.8	16.5	16.3	14.0	10.8	25.8
	742A-34R-1, 89	307.19	Ds	1.4	1.5	2.5	1.9	1.8	3.8	6.6	13.5	16.8	17.3	10.9	22.0
	742A-34R-2, 85	308.65	SMm	1.9	5.8	8.8	5.8	4.2	18.2	4.9	6.2	8.0	10.6	6.8	18.4

Unit	Sample	Depth (mbsf)	Facies	<0ø	0-1ø	1-2ø	2-3ø	3-4ø	4-5ø	5-6ø	6-7ø	7-8ø	8-9ø	9-10ø	>10ø
I	743A-1H-1, 27	0.27	S	39.6	23.8	23.2	7.1	2.0	0.5	1.1	0.5	0.2	0.1	0.3	1.6
II	743A-1H-1, 91	0.91	MSm	7.1	10.9	15.8	13.1	8.9	5.7	4.6	3.9	2.7	3.3	2.3	21.7
	743A-3H-1, 70	2.60	MSm	9.5	11.8	15.2	12.5	8.4	5.0	5.4	3.5	3.2	2.1	2.7	20.7
	743A-3H-2, 70	4.10	MSm	8.3	10.5	14.6	12.1	8.4	5.0	6.3	3.5	3.6	2.9	3.1	21.7
	743A-4H-3, 37	7.97	SMm	6.2	9.0	12.8	11.5	8.3	5.7	6.0	5.1	2.7	3.8	3.5	25.4
	743A-5H-1, 69	13.49	SMm	5.5	9.6	12.5	11.6	8.8	5.5	6.7	4.8	3.2	2.7	4.0	25.1
III	743A-6X-1, 30	16.10	Dm	6.6	9.4	12.6	11.6	8.6	3.7	7.4	4.8	3.1	2.8	3.7	25.7
	743A-9X-1, 70	40.90	Dm	8.1	9.2	13.2	12.3	9.5	7.5	4.7	5.1	3.0	2.9	3.2	21.3
	743A-10X-1, 82	50.72	Dm	7.6	9.2	12.9	12.1	9.0	5.8	6.3	3.9	4.1	2.8	3.2	23.1
	743A-10X-2, 38	51.78	Dm	10.6	9.0	12.3	11.0	8.9	6.9	4.9	4.7	2.8	3.3	3.3	22.3

APPENDIX B
Grain-size Distribution, Gravel Fraction and Size of Largest Clasts, Leg 119. 1. Site 739. 2. Site 742

Depth (mbsf)	Gravel (%)	Maximum clast size (cm)
0.5	10	3
1.5	10	
5.0	1	
24.2	20	
24.7	5	
25.2	20	
25.4	5	
26.1	7	3
28.1	15	
28.6	7	
28.8	10	
29.2	20	
29.7	10	
30.0	15	4
30.5	5	
31.0	20	
32.0	10	
87.0		10
106.4	17	2
115.8	10	
116.2	15	
116.7	30	
117.5	15	
117.8	25	
118.0	15	6
118.3	40	
118.8	30	
119.2	15	
119.3	20	
119.4	5	
119.6	15	
125.7	10	11
126.2	15	
131.0	15	
131.4	10	
131.6	15	
132.5	20	3
132.8	10	
133.5	10	
134.2	20	
134.6	10	
135.1	20	
135.3	10	
136.0	15	
136.5	10	
137.5	5	
137.8	10	3.7
138.1	5	
138.5	15	
138.9	10	
139.3	5	
139.7	10	
140.1	2	
140.8	25	20
141.2	20	
141.7	20	
142.5	15	
143.2	12	
145.2	10	
145.9	10	
146.7	15	5
147.2	10	
148.2	10	
150.3	15	
151.3	10	
151.7	15	5.5
152.0	10	
152.2	15	
152.6	10	
153.0	15	
156.0		3
159.6	5	
160.2	5	
160.7	3	2.2
160.8	1	
161.0	5	
161.2	2	
161.5	5	
161.7	10	
165.5	7	3
171.2		7
174.0	3	
183.6	10	12
185.0	4	
186.5	2	
193.2	1	1.2
203.0	5	
203.5	4	
204.0	5	12
204.5	2	
205.0	5	
209.0	4	
212.0	2	
213.0	3	
215.0	2	2
216.5	5	
217.0	2	
218.5	4	
220.0	2	
222.0	5	
222.5	3	
223.0	1	
223.3	5	
226.0	2	
226.6	4	
227.9	5	4
229.0	4	
230.7	4	
232.3	5	
233.5	4	
235.0	7	
236.5	5	2.5
238.0	7	
239.5	7	
242.2	4	3
251.4	4	
253.0	7	
253.8	5	
254.0	1	
254.4	5	3.5
254.8	10	
256.0	7	
257.5	5	
259.0	5	
261.0	5	
262.5	3	
263.6	5	3
263.8	3	
264.0	10	
264.2	1	
264.5	5	
265.5	1	
267.0	7	
270.5	2	
272.0	3	
273.5	2	
274.7	3	
275.0	10	6
280.1	10	
281.0	5	
282.0	7	
283.5	5	
285.0	5	
286.0	5	
286.5	10	6
286.9	5	
289.3	5	
289.4	10	4.5
289.8	5	
299.7	10	3
301.2	5	
302.7	5	
304.2	5	
309.8	3	
311.3	5	
312.8	12	2.3
314.3	1	
319.0	3	4
328.5	2	
330.0	6	7
331.5	2	
332.4	2	
338.2	2	4
339.7	1	
347.8	2	7
360.0	2	2
370.0	1	
380.0	2	3
386.0	0.8	1
396.0	5	1.5
397.0	2	
415.3	2.5	3
415.6	1	
416.2	5	
416.9	2	
424.6	2.5	2
425.5	1	
426.3	1	
434.3	1	1.2
436.0	1	
439.8	1	0.5
444.6	1	3
449.9	1	3.5
453.8	2	7
454.3	1	
459.0	0.5	3
459.3	1	
464.0	2	2
465.0	2	
465.3	0.5	
465.7	2	
468.5	1	3
473.7	1	3
482.7	1	0.5

Depth (mbsf)	Gravel (%)	Maximum clast size (cm)
0.1	0	
1.5	8	4
5.0	5	3
14.6	15	7
23.8	5	
24.1	15	
24.4	5	6
33.5	3	
37.9	3	6
57.0	3	6
65.3	3	4.5
76.7	7	7
85.0	7	
86.5	5	
87.6	17	8
87.8	10	
94.2		4
104.0	15	6
114.3	10	
115.1	10	
115.4	2	
115.7	0.5	6
115.8	10	
116.8	4	
123.5	1	
125.0	1	5
126.5	3	
128.0	0.5	
129.0	3	
134.0	20	60
143.8	5	
145.3	7	
146.9	6	
148.3	5	
148.8	15	6
149.1	5	
150.3	5	
151.8	5	
152.5	5	
154.0	7	
155.5	4	3
157.0	5	
158.5	4	
160.0	3	
161.0	2	
162.7	3	
164.0	1	
165.5	2	3
166.3	2.5	
166.5	4	
167.2	2.5	3
168.5	3	
170.0	2	
170.5	2	
173.0	3	3.5
181.5	2	

Depth (mbsf)	Gravel (%)	Maximum clast size (cm)
183.0	3	
184.0	1	0.6
192.0	1	
194.0	5	3
196.0	1	
201.0	2	
203.0	1	
205.0	3	3
207.0	5	
209.0	3	
211.0	1	
213.0	3	4.5
215.0	2	
231.0	1	
234.0	5	2
237.0	2	
240.0	3	
243.0	5	3
246.0	4	
248.0	1	
249.0	1	
251.0	1	
253.0	2	2
255.0	3	
257.5	1	
259.0	2	
260.5	2	
262.0	1	2
263.5	2	
265.0	1	
266.5	1	
269.0	2	
270.5	1	
272.0	2.5	
273.5	4	5
275.0	5	
276.5	5	
278.7	2	
279.4	3	15
290.0	5	4
297.5	4	
299.0	4	
300.5	2	
302.0	4	
303.5	3	1.5
304.2	3	
304.6	2	
304.7	0	
304.9	7	
308.0	2	
309.5	2.5	1
311.0	2	
312.5	3	
306.8	0	
313.3	0	

APPENDIX C

Grain-size Distribution for Mud and Sand Components, with Statistical Parameters and Lithofacies, Leg 119 (Abbreviations as in Table 3). The estimated gravel component (Appendix B) was not included in the statistical calculations.

1. Site 739. 2. Site 742. 3. Site 743

Unit	Sample	Depth (mbsf)	Facies	Non-gravel fraction Coarse (%)	Silt (%)	Clay (%)	Mean (ø)	Skewness	Kurtosis	Sorting (ø)
I	739B-1X-1, 42	0.42	Dm	32.6	29.4	37.0	6.7	-0.1	0.6	3.9
	739C-1R-1, 53	0.53	DM	37.7	28.0	34.0	6.2	-0.1	0.7	4.2
	739A-1H-2, 74	2.24	Dm	47.7	25.5	26.8	5.2	0.2	0.7	4.2
	739A-1H-3, 75	3.75	Dm	48.1	24.6	27.3	5.2	0.3	0.6	4.3
	739A-2H-1, 18	4.78	DM	50.6	21.7	27.8	5.1	0.3	0.6	4.3
II	739C-4R-1, 86	24.96	Dm	48.0	19.1	32.9	5.5	0.2	0.6	4.3
	739C-4R-2, 44	26.04	Dm	44.4	30.1	25.4	5.2	0.2	0.7	4.2
	739C-4R-3, 47	27.57	Dm	43.0	25.5	31.5	5.6	0.2	0.6	4.2
	739C-4R-3, 95	28.05	Dm	47.6	22.0	30.4	5.4	0.3	0.6	4.3
	739C-5R-1, 75	29.45	Dm	50.6	22.3	26.9	4.8	0.3	0.6	4.5
	739C-5R-1, 142	30.12	Dm	45.2	23.7	31.2	5.6	0.2	0.6	4.2
	739C-5R-2, 75	30.95	Dm	45.7	24.7	29.6	5.4	0.3	0.6	4.3
	739C-13R-1, 74	106.64	Dm	48.2	25.9	25.6	5.1	0.2	0.7	4.3
	739C-13R-2, 18	107.58	Dm	54.0	22.5	23.6	4.8	0.4	0.8	4.3
	739C-14R-1, 75	116.25	Dm	52.7	25.9	21.1	4.7	0.3	0.8	4.2
	739C-14R-2, 105	118.05	Dm	58.2	26.2	15.9	4.0	0.3	0.8	4.0
	739C-15R-1, 106	126.26	Dm	49.1	21.7	29.0	5.3	0.3	0.6	4.3
	739C-16R-3, 94	134.24	Dm	51.0	21.1	28.1	5.1	0.3	0.6	4.3
	739C-17R-2, 107	137.57	Dm	49.2	19.9	30.8	5.4	0.3	0.6	4.2
	739C-18R-1, 53	140.53	Dm	41.3	39.5	18.5	5.1	0.2	0.8	3.8
	739C-18R-2, 80	142.30	Dm	42.5	35.2	21.9	5.4	0.1	0.7	3.8
	739C-19R-2, 110	147.30	Dw	47.3	31.2	21.0	5.1	0.2	0.7	4.0
	739C-20R-2, 101	152.21	Dm	50.7	24.8	24.5	5.1	0.3	0.7	4.2
	739C-21R-2, 105	156.85	Dm	51.6	25.2	24.0	5.0	0.4	0.7	4.0
	739C-22R-1, 95	160.25	Dm	44.8	22.2	32.7	5.7	0.1	0.6	4.2
	739C-23R-1, 70	164.70	Dm	52.4	24.9	22.4	4.7	0.3	0.7	4.1
	739C-23R-2, 98	166.48	Dm	48.4	23.3	28.4	5.3	0.3	0.6	4.2
III	739C-25R-1, 15	173.75	Dm	42.7	40.4	16.6	5.2	0.2	0.8	3.5
	739C-26R-2, 55	185.25	Dw	29.8	41.9	27.7	6.4	-0.1	0.8	3.9
	739C-27R-1, 46	193.36	DM	20.8	54.0	25.1	6.6	-0.1	0.9	3.2
	739C-28R-2, 102	205.02	Dw	63.8	26.2	9.3	3.8	0.5	1.0	3.2
	739C-29R-2, 104	214.74	Ds	49.6	28.9	21.6	5.1	0.3	0.8	4.0
	739C-29R-3, 128	216.48	Ds	34.4	40.5	24.8	6.1	0.2	0.8	3.7
	739C-30R-3, 92	225.72	Ds	40.8	36.2	23.0	5.3	-0.1	0.7	4.2
	739C-30R-3, 136	226.16	Ds	29.5	46.9	23.2	6.2	-0.1	0.8	3.4
	739C-31R-2, 105	233.95	Dw	37.3	37.7	25.1	5.9	0.0	0.8	3.9
	739C-31R-4, 105	236.95	Dm	31.7	45.3	22.9	6.0	-0.1	0.8	3.7
	739C-31R-4, 110	237.00	Dm	37.6	41.8	19.9	5.7	0.0	0.8	3.7
	739C-32R-1, 73	241.83	SM	39.7	38.3	21.8	5.6	0.1	0.8	3.9
	739C-33R-2, 105	253.25	DM	28.6	44.0	27.7	6.4	-0.1	0.8	3.6
	739C-33R-4, 105	256.25	Dw	28.7	47.1	24.5	6.2	0.0	0.8	3.5
	739C-33R-6, 90	259.10	Ds	24.5	48.4	27.0	6.6	-0.1	0.8	3.4
	739C-34R-2, 105	262.95	Dm	24.0	52.9	23.3	6.4	-0.1	0.9	3.4
	739C-34R-3, 38	263.78	Dw	20.1	52.0	28.1	6.9	0.0	0.9	3.2
	739C-34R-4, 96	265.86	Dm	34.4	42.2	23.7	5.9	0.0	0.8	3.9
IV	739C-35R-2, 91	272.41	Dm	17.8	51.8	30.3	7.1	-0.1	1.0	3.3
	739C-36R-2, 103	282.23	Dm	22.4	49.1	28.8	6.8	-0.2	0.9	3.4
	739C-36R-4, 100	285.20	R?	23.9	47.4	28.6	6.7	-0.1	0.8	3.5
	739C-37R-1, 74	290.04	Dm	35.0	37.0	28.2	6.1	-0.1	0.7	3.9
	739C-38R-1, 112	300.02	Dm	39.1	40.7	20.5	5.5	0.0	0.8	3.8
	739C-38R-2, 110	301.50	Dm	47.2	35.7	17.2	4.9	0.2	0.7	3.7
	739C-38R-3, 112	303.02	Dm	35.1	43.7	21.1	5.7	0.0	0.8	3.6
	739C-38R-4, 13	303.53	Dm	48.4	34.7	17.9	4.8	0.1	0.7	3.8
V	739C-40R-1, 28	318.48	Dm	45.5	37.2	17.3	5.1	0.0	0.7	3.7
	739C-41R-2, 107	330.37	Dm	36.9	40.6	22.4	5.8	0.0	0.8	3.8
	739C-42R-1, 119	338.69	Dm	44.7	38.0	17.3	5.1	0.0	0.7	3.7
	739C-42R-2, 102	340.02	Dm	46.0	23.7	29.9	5.5	0.2	0.6	4.2
	739C-43R-1, 39	347.49	Dm	49.4	30.1	20.3	4.9	0.2	0.7	3.9
	739C-44R-2, 119	359.49	Dm	44.5	32.7	22.4	5.3	0.0	0.7	3.9
	739C-45R-CC, 8	366.58	Dm	47.2	30.9	21.9	5.1	0.2	0.7	4.0
	739C-46R-2, 35	378.05	Dm	44.6	40.0	15.6	5.0	0.0	0.7	3.6
	739C-47R-1, 36	386.26	SM	36.2	29.0	34.7	6.3	-0.2	0.6	4.1
	739C-48R-1, 105	396.65	Dm	39.5	29.4	31.0	6.1	-0.1	0.6	4.0
	739C-50R-2, 25	416.65	Dm	39.4	34.6	26.0	5.8	-0.1	0.7	3.9
	739C-51R-1, 105	425.55	Dm	38.5	38.4	22.7	5.7	-0.2	0.7	3.9
	739C-52R-1, 100	435.20	SM	36.5	32.2	31.4	6.3	-0.2	0.7	4.0
	739C-52R-CC, 4	436.50	Dm	21.4	55.9	22.7	6.5	-0.1	1.0	3.2
	739C-53R-1, 64	439.84	Dm	43.2	23.8	33.0	5.9	0.0	0.6	4.2
	739C-54R-1, 77	444.67	Dm	44.3	27.0	28.7	5.5	0.0	0.6	4.2
	739C-56R-1, 61	454.11	Dm	38.5	27.1	34.4	6.1	-0.2	0.6	4.4
	739C-57R-1, 64	459.14	Dm	43.2	26.9	29.9	5.8	0.0	0.6	4.1
	739C-58R-1, 105	464.25	Dm	44.0	37.3	18.7	5.3	-0.1	0.7	3.7
	739C-58R-2, 105	465.75	Dm	29.4	32.7	37.9	6.8	-0.3	0.7	4.0
	739C-59R-1, 38	468.58	Dm	30.2	29.4	40.3	6.9	-0.3	0.7	4.1
	739C-60R-1, 108	473.98	Dm	31.1	30.4	38.5	6.7	-0.3	0.7	4.1
	739C-62R-CC, 7	482.67	Dm	32.6	29.4	38.0	6.5	-0.3	0.7	4.2

Unit	Sample	Depth (mbsf)	Facies	Non-gravel fraction Coarse (%)	Silt (%)	Clay (%)	Mean (ø)	Skewness	Kurtosis	Sorting (ø)
I	742A-1R-1, 70	0.70	Dm	51.5	23.8	24.7	5.1	0.4	0.7	4.1
II	742A-2R-1, 70	5.20	Dm	53.7	24.3	22.0	4.7	0.3	0.8	4.3
	742A-3R-1, 84	14.94	Dm	60.1	19.2	20.7	4.5	0.5	0.8	4.2
	742A-4R-1, 43	24.13	Dm	47.3	23.6	29.1	5.4	0.3	0.6	4.2
	742A-4R-1, 53	24.23	Dm	47.8	22.5	29.7	5.4	0.3	0.6	4.2
	742A-8R-3, 32	58.82	Dm	43.4	25.2	30.8	5.6	0.2	0.6	4.1
	742A-9R-1, 39	65.49	Dm	41.0	25.8	33.2	5.9	0.1	0.6	4.1
	742A-10R-1, 48	75.18	Dm	47.7	28.5	25.2	5.3	0.3	0.7	3.9
	742A-10R-2, 70	76.90	Dm	47.7	25.6	26.7	5.3	0.3	0.7	4.1
	742A-11R-1, 26	84.66	Dm	48.4	22.3	29.3	5.4	0.3	0.6	4.2
	742A-11R-1, 80	85.20	Dm	47.7	23.3	29.0	5.4	0.3	0.6	4.2
	742A-13R-1, 63	104.33	Dm	48.8	24.6	26.6	5.3	0.3	0.7	4.1
	742A-14R-1, 70	114.00	Dm	47.9	23.9	28.2	5.4	0.3	0.6	4.1
III	742A-14R-2, 70	115.50	Dw	16.0	40.1	43.9	7.8	-0.4	1.2	3.4
	742A-14R-3, 70	117.00	Dw	29.2	43.3	26.5	6.3	-0.2	0.8	3.8
	742A-15R-2, 70	125.20	Dw	32.3	28.3	39.4	6.7	-0.3	0.7	4.2
	742A-15R-3, 48	126.48	Dm	37.0	30.9	31.5	6.1	0.0	0.7	4.0
	742A-16R-1, 72	133.42	Dw	27.3	25.1	47.6	7.3	-0.4	0.7	4.2
IV	742A-17R-1, 70	143.00	Dm	47.4	21.5	31.1	5.5	0.2	0.6	4.2
	742A-18R-1, 73	152.73	Dm	47.1	22.8	30.1	5.4	0.2	0.6	4.2
	742A-19R-1, 40	162.10	Dm	48.3	22.5	29.2	5.4	0.3	0.6	4.2
V	742A-20R-3, 37	174.67	Dm	31.2	33.0	35.8	6.6	-0.3	0.7	4.1
	742A-21R-1, 70	181.70	Dw	41.7	25.7	32.6	5.8	0.0	0.6	4.3
	742A-22R-2, 70	192.90	Dm	21.8	30.8	47.4	7.4	-0.5	0.9	3.9
	742A-23R-1, 30	200.60	Dm	42.6	31.0	26.4	5.6	0.0	0.7	4.1
	742A-23R-1, 72	201.02	Dm	41.7	29.7	28.6	5.7	0.1	0.6	4.0
	742A-24R-1, 70	210.60	Dm	43.3	28.8	27.9	5.6	0.0	0.6	4.1
	742A-27R-1, 69	239.49	Dm	40.9	29.1	30.0	5.8	0.0	0.7	4.2
	742A-28R-1, 70	249.20	Dm	39.2	30.9	29.9	5.9	0.0	0.7	4.0
	742A-29R-1, 70	258.80	Dm	41.5	31.5	27.0	5.6	0.0	0.7	4.0
	742A-30R-1, 70	268.50	Dm	44.4	28.2	27.4	5.5	0.0	0.6	4.1
	742A-31R-1, 67	278.07	Dm	44.5	26.6	28.9	5.6	0.1	0.6	4.1
	742A-32R-1, 69	287.79	Dm	43.9	29.3	26.8	5.5	0.1	0.7	4.1
	742A-32R-2, 48	289.08	Dm	42.1	29.3	28.6	5.7	0.0	0.6	4.1
VI	742A-33R-6, 31	304.51	SMm	7.5	55.9	36.6	8.3	-0.2	1.5	2.3
	742A-33R-6, 71	304.91	Ds	17.5	47.5	35.0	7.3	-0.3	1.1	3.4
	742A-34R-1, 85	307.15	SMs	7.0	55.9	36.6	8.2	-0.1	1.1	2.5
	742A-34R-1, 89	307.19	Ds	9.1	58.0	32.9	7.9	-0.2	1.3	2.6
	742A-34R-2, 85	308.65	SMm	26.5	47.9	25.2	6.0	0.0	0.8	3.7

Unit	Sample	Depth (mbsf)	Facies	Non-gravel fraction Coarse (%)	Silt (%)	Clay (%)	Mean (ø)	Skewness	Kurtosis	Sorting (ø)
I	743A-1H-1, 27	0.27	S	95.7	2.4	1.9	0.6	0.3	1.0	1.3
II	743A-1H-1, 91	0.91	MSm	55.8	20.2	24.0	4.8	0.4	0.7	4.2
	743A-3H-1, 70	2.60	MSm	57.4	19.2	23.4	4.7	0.4	0.7	4.3
	743A-3H-2, 70	4.10	MSm	53.9	21.3	24.8	4.9	0.4	0.7	4.2
	743A-4H-3, 37	7.97	SMm	47.8	23.3	28.9	5.4	0.3	0.6	4.2
	743A-5H-1, 69	13.49	SMm	48.0	22.9	29.1	5.4	0.3	0.6	4.2
III	743A-6X-1, 30	16.10	Dm	48.8	21.8	29.4	5.3	0.3	0.6	4.3
	743A-9X-1, 70	40.90	Dm	52.3	23.2	24.5	5.0	0.4	0.7	4.2
	743A-10X-1, 82	50.72	Dm	50.8	22.9	26.3	5.1	0.3	0.7	4.2
	743A-10X-2, 38	51.78	Dm	51.8	22.6	25.6	4.9	0.3	0.7	4.3

APPENDIX D
Sediment Composition of Samples, Leg 119.
1. Site 739. 2. Site 742. 3. Site 743

Sample	Depth (mbsf)	Opal (%)	Total carbon (%)	Organic carbon (%)	Inorganic carbon (%)	Carbonate (%)	Sulfur (%)
739B-1H-1, 42	0.42	15	0.47	0.38	0.09	0.74	0.07
739C-1R-1, 53	0.53	25	0.42	0.31	0.11	0.89	0.09
739A-1H-1, 77	0.77	10	0.31	0.27	0.04	0.30	0.01
739A-1H-2, 74	1.96	15	0.35	0.30	0.05	0.44	0.02
739A-1H-3, 75	3.47	10	0.32	0.28	0.04	0.34	0.02
739A-2H-1, 18	4.78	20	0.34	0.28	0.06	0.48	0.05
739C-4R-1, 86	24.96	0	0.45	0.36	0.09	0.75	0.14
739C-4R-2, 44	26.04	0	0.44	0.13	0.30	2.53	0.02
739C-4R-3, 47	27.57	0	0.40	0.35	0.06	0.47	0.01
739C-4R-3, 95	28.05	0	0.43	0.30	0.12	1.01	0.02
739C-4R-4, 18	28.78	0	0.40	0.29	0.11	0.93	0.03
739C-5R-1, 75	29.45	0	0.38	0.30	0.08	0.69	0.01
739C-5R-1, 142	30.12	0	0.39	0.32	0.08	0.63	0.01
739C-5R-2, 75	30.95	0	0.41	0.31	0.10	0.86	0.02
739C-13R-1, 74	106.64	15	0.87	0.85	0.02	0.14	0.02
739C-13R-2, 18	107.58	10	1.00	0.92	0.08	0.64	0.03
739C-14R-1, 75	116.25	4	1.05	1.00	0.05	0.41	0.05
739C-14R-2, 75	117.75	1	1.08	1.02	0.06	0.47	0.03
739C-14R-2, 105	118.05	1	1.02	0.98	0.05	0.38	0.02
739C-14R-3, 75	119.25	1	0.85	0.79	0.07	0.55	0.02
739C-15R-1, 40	125.60	0	1.52	1.38	0.14	1.19	0.03
739C-15R-1, 106	126.26	0	1.55	1.47	0.08	0.70	0.03
739C-16R-1, 76	131.06	0	1.51	1.42	0.09	0.74	0.05
739C-16R-2, 76	132.56	0	1.71	1.58	0.13	1.05	0.04
739C-16R-3, 76	134.06	0	1.33	1.24	0.08	0.70	0.03
739C-16R-3, 94	134.24	0	1.48	1.35	0.13	1.10	0.03
739C-17R-1, 75	135.75	0	1.58	1.49	0.09	0.77	0.02
739C-17R-2, 71	137.21	0	1.40	1.36	0.04	0.32	0.03
739C-17R-2, 107	137.57	0	1.53	1.46	0.07	0.57	0.06
739C-17R-3, 71	138.71	0	1.58	1.52	0.06	0.49	0.03
739C-17R-4, 52	140.02	1	2.09	1.90	0.19	1.62	0.04
739C-18R-1, 53	140.53	30	1.13	1.11	0.02	0.15	0.04
739C-18R-2, 80	142.30	15	1.02	0.97	0.05	0.44	0.27
739C-19R-1, 70	145.40	10	1.56	1.44	0.12	1.00	0.07
739C-19R-2, 64	146.84	5	1.28	1.22	0.06	0.48	0.05
739C-19R-2, 110	147.30	20	1.65	1.60	0.05	0.39	0.04
739C-19R-3, 66	148.36	2	1.49	1.45	0.04	0.30	0.03
739C-20R-1, 72	150.42	15	1.30	1.25	0.04	0.35	0.03
739C-20R-2, 70	151.90	20	1.38	1.26	0.11	0.94	0.06
739C-20R-2, 101	152.21	5	1.14	1.11	0.03	0.21	0.03
739C-21R-1, 75	155.05	1	1.42	1.33	0.09	0.76	0.04
739C-21R-2, 75	156.55	2	1.12	1.10	0.03	0.21	0.03
739C-21R-2, 105	156.85	2	1.30	1.22	0.08	0.64	0.03
739C-21R-3, 75	158.05	0	2.31	2.18	0.13	1.09	0.04
739C-22R-1, 75	160.05	0	1.95	1.71	0.24	1.97	0.03
739C-22R-1, 95	160.25	0	1.80	1.68	0.11	0.94	0.12
739C-22R-3, 75	163.05	0	1.40	1.39	0.01	0.08	0.04
739C-23R-1, 70	164.70	0	1.62	1.51	0.11	0.93	0.03
739C-23R-2, 88	166.38	0	1.57	1.49	0.08	0.69	0.02
739C-23R-2, 98	166.48	0	1.53	1.51	0.03	0.21	0.03
739C-25R-1, 15	173.75	10	0.75	0.64	0.10	0.87	0.18
739C-25R-1, 70	174.30	2	0.75	0.62	0.13	1.06	0.43
739C-26R-2, 55	185.25	25	0.92	0.76	0.15	1.26	0.15
739C-27R-1, 46	193.36	5	0.95	0.08	0.86	7.20	0.17
739C-28R-2, 102	205.02	25	0.44	0.32	0.12	1.04	0.11
739C-29R-2, 104	214.74	15	0.60	0.49	0.11	0.92	0.14
739C-29R-3, 128	216.48	10	0.38	0.33	0.06	0.48	0.09
739C-30R-3, 92	225.72	15	0.41	0.34	0.07	0.58	
739C-30R-3, 136	226.16	20	0.75	0.60	0.15	1.27	0.22
739C-31R-2, 105	233.95	10	0.81	0.66	0.15	1.28	0.23
739C-31R-4, 105	236.95	5	0.89	0.72	0.16	1.36	0.16
739C-31R-4, 110	237.00	10	0.85	0.69	0.16	1.37	0.15
739C-32R-1, 73	241.83	10	0.90	0.65	0.25	2.08	0.17
739C-33R-2, 105	253.25	20	0.83	0.68	0.15	1.25	0.22
739C-33R-4, 105	256.25	15	0.86	0.67	0.20	1.64	0.21
739C-33R-6, 90	259.10	20	0.82	0.63	0.19	1.58	0.20
739C-34R-2, 105	262.95	10	0.91	0.72	0.19	1.60	0.22
739C-34R-3, 38	263.78	10	0.73	0.58	0.15	1.23	0.66
739C-34R-4, 96	265.86	20	0.89	0.62	0.27	2.25	0.20
739C-35R-2, 91	272.41	20	0.87	0.63	0.24	1.96	0.29
739C-36R-2, 103	282.23	15	1.04	0.84	0.20	1.63	0.32
739C-36R-4, 100	285.20	15	1.09	0.86	0.23	1.91	0.34
739C-37R-1, 74	290.04	20	0.74	0.64	0.10	0.82	0.23
739C-38R-1, 112	300.02	15	0.89	0.73	0.17	1.38	0.18
739C-38R-2, 110	301.50	2	0.67	0.62	0.05	0.42	0.11
739C-38R-3, 112	303.02	15	0.95	0.76	0.19	1.57	0.16
739C-38R-4, 13	303.53		0.58	0.51	0.07	0.58	0.14
739C-40R-1, 28	318.48	0	0.93	0.56	0.38	3.16	0.23
739C-41R-2, 107	330.37	0	0.74	0.62	0.12	1.01	0.14
739C-42R-1, 119	338.69	0	0.63	0.53	0.10	0.80	0.07
739C-42R-2, 102	340.02	0	0.63	0.51	0.12	0.99	0.08
739C-43R-1, 39	347.49	0	0.61	0.53	0.07	0.62	0.08
739C-44R-2, 119	359.49	0	0.71	0.64	0.07	0.61	0.07
739C-45R-CC, 8	366.58	0	0.71	0.62	0.09	0.76	0.06
739C-46R-2, 35	378.05	0	0.75	0.69	0.07	0.55	0.13
739C-47R-1, 36	386.26	0	0.97	0.84	0.12	1.04	0.09
739C-48R-1, 105	396.65	0	0.89	0.74	0.15	1.25	0.08
739C-50R-2, 25	416.65	0	0.81	0.68	0.13	1.07	0.12
739C-51R-1, 105	425.55	0	0.73	0.66	0.07	0.59	0.07
739C-52R-1, 100	435.20	0	0.45	0.37	0.07	0.59	0.09
739C-52R-CC, 4	436.50	0	0.72	0.64	0.08	0.67	0.14
739C-53R-1, 64	439.84	0	0.41	0.35	0.07	0.56	0.08
739C-54R-1, 77	444.67	0	0.41	0.35	0.06	0.52	0.08
739C-55R-2, 1	450.41	0	0.50	0.42	0.08	0.68	0.09
739C-55R-2, 30	450.70		3.06	0.30	2.76	23.02	0.03
739C-56R-1, 61	454.11	0	0.55	0.46	0.09	0.78	0.08
739C-57R-1, 46	458.96	0	0.54	0.50	0.04	0.31	0.08
739C-57R-1, 64	459.14	0	0.52	0.42	0.10	0.83	0.08
739C-58R-1, 105	464.25	0	0.47	0.42	0.06	0.48	0.07
739C-58R-2, 105	465.75	0	0.60	0.48	0.12	1.02	0.09
739C-59R-1, 38	468.58	0	0.54	0.45	0.09	0.75	0.11
739C-60R-1, 1	472.91	0	0.47	0.39	0.08	0.70	
739C-60R-1, 108	473.98	0	0.51	0.43	0.08	0.66	0.07
739C-60R-1, 126	474.16	0	0.63	0.43	0.21	1.72	
739C-62R-CC, 7	482.67	0	0.50	0.44	0.06	0.51	0.08

Sample	Depth (mbsf)	Opal (%)	Total carbon (%)	Organic carbon (%)	Inorganic carbon (%)	Carbonate (%)	Sulfur (%)
742A-1R-1, 48	0.48	20	0.28	0.24	0.04	0.34	0.03
742A-1R-1, 70	0.70	25	0.26	0.25	0.01	0.08	0.02
742A-1R-2, 48	1.98	20	0.28	0.23	0.05	0.45	0.03
742A-1R-3, 48	3.48	15	0.27	0.20	0.06	0.53	0.02
742A-2R-1, 48	4.98	15	0.24	0.20	0.04	0.33	0.02
742A-2R-1, 70	5.20	20	0.22	0.10	0.12	0.99	0.01
742A-3R-1, 48	14.58	5	0.30	0.23	0.07	0.55	0.02
742A-3R-1, 84	14.94	10	0.26	0.19	0.07	0.56	0.02
742A-4R-1, 43	24.13	0	0.46	0.37	0.09	0.76	0.03
742A-4R-1, 53	24.23	0	0.40	0.34	0.06	0.49	0.01
742A-8R-1, 32	55.82	0	0.36	0.31	0.05	0.43	0.01
742A-8R-1, 60	56.10	0	0.36	0.31	0.05	0.44	0.01
742A-8R-2, 32	57.32	0	0.49	0.38	0.11	0.94	0.02
742A-8R-3, 32	58.82	0	0.49	0.31	0.18	1.52	0.01
742A-9R-1, 27	65.37	0	0.42	0.35	0.06	0.53	0.01
742A-9R-1, 39	65.49	0	0.39	0.32	0.07	0.61	0.01
742A-10R-1, 48	75.18	0	0.42	0.36	0.06	0.51	0.01
742A-10R-2, 48	76.68	0	0.47	0.40	0.07	0.56	0.01
742A-10R-2, 70	76.90	0	0.41	0.37	0.05	0.41	0.01
742A-10R-3, 48	78.18	0	0.42	0.29	0.13	1.04	0.02
742A-11R-1, 26	84.66	0	0.34	0.31	0.03	0.25	0.01
742A-11R-1, 48	84.88	0	0.41	0.32	0.09	0.76	0.02
742A-11R-1, 80	85.20	0	1.85	1.74	0.11	0.91	0.04
742A-11R-1, 95	85.35	0	0.43	0.35	0.08	0.68	0.01
742A-11R-2, 48	86.38	0	0.43	0.35	0.08	0.69	0.02
742A-11R-3, 17	87.57	0	0.36	0.29	0.07	0.59	0.01
742A-13R-1, 63	104.33	0	0.42	0.35	0.07	0.59	0.01
742A-14R-1, 48	113.78	0	0.43	0.33	0.10	0.86	0.02
742A-14R-1, 70	114.00	0	0.42	0.35	0.07	0.54	0.02
742A-14R-2, 48	115.28	0	0.37	0.31	0.06	0.47	0.02
742A-14R-2, 70	115.50	0	0.58	0.56	0.03	0.22	0.02
742A-14R-3, 48	116.78	0	0.39	0.38	0.01	0.07	0.04
742A-14R-3, 70	117.00	0	0.27	0.26	0.01	0.08	0.01
742A-15R-1, 48	123.48	0	0.55	0.54	0.01	0.08	0.02
742A-15R-2, 70	125.20	0	0.32	0.32	0.00	0.02	0.03
742A-15R-3, 48	126.48	0	0.40	0.37	0.04	0.29	0.02
742A-16R-1, 48	133.18	0	0.34	0.30	0.05	0.39	0.02
742A-16R-1, 72	133.42	0	0.49	0.47	0.02	0.16	0.03
742A-16R-2, 48	134.68	0	1.05	1.00	0.05	0.42	0.02
742A-17R-1, 70	143.00	0	1.65	1.54	0.11	0.94	0.03
742A-17R-2, 48	144.28	0	1.51	1.34	0.18	1.47	0.03
742A-18R-1, 73	152.73	0	1.55	1.39	0.16	1.32	0.04
742A-18R-3, 40	155.40	0	1.34	1.23	0.11	0.92	0.03
742A-19R-1, 40	162.10	0	1.33	1.16	0.17	1.38	0.03
742A-19R-4, 80	167.00	0	1.25	1.11	0.14	1.20	0.03
742A-20R-2, 26	173.06	0	1.62	0.70	0.92	7.67	1.23
742A-20R-3, 37	174.67	0	0.78	0.73	0.05	0.44	0.09
742A-21R-1, 48	181.48	0	0.59	0.52	0.07	0.59	0.10
742A-21R-1, 70	181.70	0	0.61	0.54	0.07	0.56	0.06
742A-22R-2, 21	192.41	0	0.62	0.56	0.06	0.49	0.07
742A-22R-2, 70	192.90	0	0.73	0.68	0.05	0.44	0.07
742A-23R-1, 30	200.60	0	0.55	0.49	0.06	0.49	0.07
742A-23R-1, 72	201.02	0	0.58	0.48	0.10	0.83	0.06
742A-23R-1, 128	201.58	0	0.64	0.54	0.09	0.78	0.10
742A-23R-2, 49	202.29	0	0.64	0.54	0.10	0.82	0.12
742A-24R-1, 70	210.60	0	0.55	0.48	0.07	0.56	0.07
742A-24R-2, 47	211.87	0	0.62	0.55	0.07	0.59	0.06
742A-27R-1, 69	239.49	0	0.64	0.59	0.04	0.37	0.07
742A-27R-2, 48	240.78	0	0.64	0.56	0.07	0.60	0.07
742A-28R-1, 70	249.20	0	0.64	0.53	0.11	0.92	0.06
742A-28R-2, 40	250.40	0	0.59	0.51	0.08	0.66	0.06
742A-29R-1, 70	258.80	0	0.58	0.50	0.08	0.67	0.06
742A-29R-2, 48	260.08	0	0.54	0.51	0.03	0.21	0.06
742A-30R-1, 70	268.50	0	0.44	0.41	0.02	0.21	0.03
742A-30R-2, 48	269.78	0	0.44	0.40	0.03	0.29	0.04
742A-31R-1, 67	278.07	0	0.55	0.49	0.06	0.48	0.08
742A-31R-2, 48	279.38	0	0.47	0.40	0.07	0.58	0.05
742A-32R-1, 69	287.79	0	0.47	0.37	0.10	0.86	0.04
742A-32R-2, 48	289.08	0	0.58	0.49	0.09	0.76	0.05
742A-33R-6, 31	304.51	0	0.77	0.72	0.05	0.39	0.22
742A-33R-6, 71	304.91	1	0.69	0.64	0.04	0.37	0.02
742A-34R-1, 85	307.15	0	0.81	0.70	0.11	0.93	0.14
742A-34R-1, 89	307.19	0	0.78	0.71	0.08	0.65	0.10
742A-34R-2, 85	308.65	0	0.44	0.33	0.11	0.91	0.08

Sample	Depth (mbsf)	Total carbon (%)	Organic carbon (%)	Inorganic carbon (%)	Carbonate (%)	Sulfur (%)
743A-1H-1, 91	0.91	0.13	0.11	0.02	0.20	0.02
743A-3H-1, 70	2.60	0.17	0.14	0.03	0.22	0.02
743A-3H-2, 70	4.10	0.31	0.18	0.13	1.05	0.02
743A-4H-2, 37	6.47	2.64	2.32	0.32	2.62	0.04
743A-4H-3, 37	7.97	0.33	0.24	0.08	0.69	0.02
743A-5H-1, 69	13.49	0.41	0.32	0.09	0.72	0.02
743A-6X-1, 30	16.10	0.46	0.34	0.12	0.97	0.03
743A-9X-1, 70	40.90	0.27	0.21	0.06	0.49	0.01
743A-10X-1, 82	50.72	0.30	0.27	0.03	0.26	0.01
743A-10X-2, 38	51.78	0.33	0.24	0.09	0.78	0.01

APPENDIX E
Clay Mineral Composition of Samples, Leg 119.
1. Site 739. 2. Site 742. 3. Site 743

Sample	Depth (mbsf)	Smectite (%)	Illite (%)	Chlorite (%)	Kaolinite (%)	Vermiculite
739B-1H-1, 42	0.42	9	68	3	19	-
739C-1R-1, 53	0.53	9	62	8	21	-
739A-1H-2, 74	1.96	9	59	10	22	-
739A-1H-3, 75	3.47	9	60	8	23	-
739A-2H-1, 18	4.78	11	58	10	22	-
739C-4R-1, 86	24.96	7	50	22	21	-
739C-4R-2, 44	26.04	15	41	27	17	-
739C-4R-3, 47	27.57	8	49	25	17	-
739C-4R-3, 95	28.05	9	51	19	21	-
739C-5R-1, 75	29.45	7	47	31	14	-
739C-5R-1, 142	30.12	9	48	18	25	-
739C-5R-2, 75	30.95	4	52	25	18	-
739C-13R-1, 74	106.64	5	63	13	18	-
739C-13R-2, 18	107.58	8	54	19	20	-
739C-14R-1, 75	116.25	8	54	18	20	-
739C-14R-2, 105	118.05	12	42	24	23	-
739C-15R-1, 106	126.26	2	48	27	24	-
739C-16R-3, 94	134.24	6	50	17	27	-
739C-17R-2, 107	137.57	3	46	19	32	-
739C-18R-1, 53	140.53	6	56	23	15	-
739C-18R-2, 80	142.30	9	61	12	18	-
739C-19R-2, 110	147.30	5	57	22	16	-
739C-20R-2, 101	152.21	3	59	19	19	-
739C-21R-2, 105	156.85	13	41	17	29	-
739C-22R-1, 95	160.25	9	42	22	27	-
739C-23R-1, 70	164.70	8	36	38	18	-
739C-23R-2, 98	166.48	7	46	21	26	-
739C-25R-1, 15	173.75	11	40	19	30	+
739C-26R-2, 55	185.25	8	46	23	23	+
739C-27R-1, 46	193.36	13	53	18	16	+
739C-28R-2, 102	205.02	12	45	25	18	+
739C-29R-2, 104	214.74	14	40	15	31	+
739C-29R-3, 128	216.48	14	44	19	23	+
739C-30R-3, 92	225.72	18	50	13	20	-
739C-30R-3, 136	226.16	18	46	10	26	+
739C-31R-2, 105	233.95	13	41	14	33	+-
739C-31R-4, 105	236.95	16	35	23	26	+
739C-31R-4, 110	237.00	17	44	15	24	+
739C-32R-1, 73	241.83	14	42	20	24	+-
739C-33R-2, 105	253.25	15	51	14	21	+-
739C-33R-4, 105	256.25	12	44	22	22	-
739C-33R-6, 90	259.10	8	63	13	16	-
739C-34R-2, 105	262.95	19	48	18	16	+
739C-34R-3, 38	263.78	23	48	19	9	+
739C-34R-4, 96	265.86	19	44	23	14	+
739C-35R-2, 91	272.41	17	46	21	16	+-
739C-36R-2, 103	282.23	16	50	19	15	+-
739C-36R-4, 100	285.20	17	36	22	26	-
739C-37R-1, 74	290.04	18	47	11	24	+-
739C-38R-1, 112	300.02	22	34	15	29	+
739C-38R-2, 110	301.50	11	38	8	43	-
739C-38R-3, 112	303.02	12	37	12	39	-
739C-38R-4, 13	303.53	22	29	11	38	+-
739C-40R-1, 28	318.48	14	34	13	39	-
739C-41R-2, 107	330.37	20	26	23	31	+-
739C-42R-1, 119	338.69	22	28	10	40	-
739C-42R-2, 102	340.02	15	23	12	50	-
739C-43R-1, 39	347.49	13	20	14	53	-
739C-44R-2, 119	359.49	17	20	14	49	+-
739C-45R-CC, 8	366.58	18	22	15	45	+
739C-46R-2, 35	378.05	16	26	15	43	+
739C-47R-1, 36	386.26	6	42	13	39	-
739C-48R-1, 105	396.65	15	30	9	46	+
739C-51R-1, 105	425.55	14	28	9	49	+-
739C-52R-1, 100	435.20	17	26	7	51	-
739C-52R-CC, 4	436.50	15	20	12	53	-
739C-53R-1, 64	439.84	15	20	6	58	-
739C-54R-1, 77	444.67	15	22	11	52	+-
739C-55R-2, 30	450.70	13	19	11	57	+-
739C-56R-1, 61	454.11	8	29	6	57	-
739C-57R-1, 64	459.14	12	24	8	56	-
739C-58R-1, 105	464.25	15	23	8	53	-
739C-58R-2, 105	465.75	10	24	8	58	-
739C-59R-1, 38	468.58	20	16	10	54	-
739C-60R-1, 108	473.98	14	17	12	57	-
739C-62R-CC, 7	482.67	16	16	8	59	-

Section	Depth (mbsf)	Smectite (%)	Illite (%)	Chlorite (%)	Kaolinite (%)
742A-1R-1, 70	0.70	5	70	6	19
742A-2R-1, 70	5.20	4	64	7	25
742A-3R-1, 84	14.94	5	49	14	33
742A-4R-1, 43	24.13	1	64	16	19
742A-4R-1, 53	24.23	7	61	15	17
742A-8R-1, 60	56.10	6	62	10	22
742A-8R-3, 32	58.82	13	52	21	14
742A-9R-1, 39	65.49	7	58	17	18
742A-10R-1, 48	75.18	9	51	13	27
742A-10R-2, 70	76.90	4	52	17	27
742A-11R-1, 26	84.66	5	65	15	15
742A-11R-1, 80	85.20	5	65	12	18
742A-11R-1, 80	85.35	2	59	15	24
742A-13R-1, 63	104.33	9	49	21	22
742A-14R-1, 70	114.00	7	49	22	22
742A-14R-2, 70	115.50	4	75	11	10
742A-14R-3, 70	117.00	2	80	6	12
742A-15R-2, 70	125.20	4	66	16	14
742A-15R-3, 48	126.48	10	58	11	21
742A-16R-1, 72	133.42	3	63	21	13
742A-17R-1, 70	143.00	9	44	17	30
742A-18R-1, 73	152.73	7	38	17	38
742A-19R-1, 40	162.10	2	40	16	42
742A-20R-3, 37	174.67	24	21	6	49
742A-23R-1, 30	200.60	2	31	9	57
742A-23R-1, 72	201.02	19	22	9	50
742A-24R-1, 70	210.60	18	19	9	55
742A-27R-1, 69	239.49	9	10	9	73
742A-28R-1, 70	249.20	11	26	11	53
742A-29R-1, 70	258.80	11	26	12	51
742A-30R-1, 70	268.50	5	28	5	62
742A-31R-1, 67	278.07	13	26	7	54
742A-32R-1, 69	287.79	19	28	3	50
742A-32R-2, 48	289.08	25	20	5	49
742A-33R-6, 31	304.51	14	11	11	64
742A-33R-6, 71	304.91	19	14	7	60
742A-34R-1, 85	307.15	19	14	7	59
742A-34R-1, 89	307.19	9	8	5	78
742A-34R-2, 85	308.65	9	9	9	72

Sample	Depth (mbsf)	Smectite (%)	Illite (%)	Chlorite (%)	Kaolinite (%)
743A-1H-1, 91	0.91	3	50	7	40
743A-3H-1, 70	2.60	3	48	19	30
743A-3H-2, 70	4.10	1	53	9	36
743A-4H-2, 37	6.47	5	55	16	24
743A-4H-3, 37	7.97	1	56	19	25
743A-5H-1, 69	13.49	3	52	17	28
743A-6X-1, 30	16.10	2	54	19	26
743A-9X-1, 70	40.90	7	45	9	39
743A-10X-1, 82	50.72	4	38	12	47
743A-10X-2, 38	51.78	12	41	8	39

APPENDIX F
Roundness of Clasts Observed on the Split-core Face in Diamictites, Leg 119. 1. Site 739. 2. Site 742

Depth of investigated interval (mbsf)	Mid-Point (mbsf)	Angular (%)	Subangular (%)	Subrounded (%)	Rounded (%)	Number of investigated clasts
0.00-4.60	2.30	24	38	38	0	26
24.10-28.70	26.40	11	50	32	7	28
28.70-38.30	33.50	14	41	38	8	51
115.50-125.20	120.35	16	38	42	4	50
125.20-130.30	127.75	4	60	20	16	25
130.30-131.80	131.05	21	47	14	18	28
131.80-133.30	132.55	40	20	30	10	20
133.30-134.80	134.05	42	42	16	0	19
135.00-140.00	137.50	23	24	32	21	53
140.00-144.70	142.35	4	24	54	18	50
144.70-149.70	147.20	23	23	34	20	35
149.70-154.30	152.00	3	34	50	13	32
154.30-159.30	156.80	3	37	44	16	32
221.80-231.40	226.60	4	18	67	11	27
231.40-241.10	236.25	16	24	56	4	25
250.70-260.40	255.55	12	15	58	15	41
260.40-270.00	265.20	5	28	53	14	36
279.70-289.30	284.10	9	17	51	8	35

Depth of investigated interval (mbsf)	Mid-Point (mbsf)	Angular (%)	Subangular (%)	Subrounded (%)	Rounded (%)	Number of investigated clasts
14.10-23.70	18.90	12	36	48	4	50
23.70-33.40	28.55	19	35	38	8	26
84.40-94.10	89.25	8	46	40	6	50
113.30-123.00	118.15	12	40	34	14	
132.70-142.30	137.50	12	35	40	13	55
142.30-152.00	147.15	16	36	36	15	67
152.00-161.70	156.85	10	34	40	16	82
161.70-166.20	163.95	18	35	35	12	89
166.20-171.30	168.75	15	34	42	9	53
209.90-219.60	214.75	7	36	29	27	44
238.80-248.50	243.65	0	26	40	33	15
248.50-258.10	253.30	10	46	36	8	50
258.10-267.80	262.95	6	42	40	12	50
267.80-277.40	272.60	12	41	39	8	64
277.40-287.10	282.25	10	32	46	12	50
287.10-296.70	291.90	15	37	37	11	54