

Lahar	Sample	Latitude (N)	Longitude (E)	Type	Mean Diameter in phi unit	Deviation
Izu-Oshima 2013	1230	34.74776	139.36030	HFF	-0.71	2.36
Izu-Oshima 2013	1238	34.74776	139.36030	HFF	0.86	1.93
Izu-Oshima 2013	1207	34.74721	139.36110	HFF	3.55	1.07
Unzen1993	UDF01	32.73923	130.36747	DF	-5.22	4.34
Unzen1993	UDF02	32.73923	130.36747	DF	-3.71	4.29
Unzen1993	UDF03	32.73923	130.36747	DF	-4.57	3.86
Unzen1993	UDF04	32.73923	130.36747	DF	-2.03	3.04
Unzen1993	UDF05	32.73923	130.36747	HFF	0.17	2.02
Unzen1993	UDF06	32.73923	130.36747	HFF	-0.19	2.09
Unzen1993	UDF07	32.73923	130.36747	HFF	3.14	1.07
Pinatubo 1991-95	PG013	15.05069	120.29332	HFF	0.83	2.54
Pinatubo 1991-95	PG014	15.05069	120.29332	HFF	1.14	2.57
Pinatubo 1991-95	PG016	15.05069	120.29332	HFF	1.19	1.79
Pinatubo 1991-95	PG018	15.19404	120.49124	DF	-1.27	3.68
Pinatubo 1991-95 (1995)	PG021	15.13199	120.51999	DF	-3.09	2.55
Pinatubo 1991-95 (1995)	PG022	15.13199	120.51999	HFF	0.47	1.21
Pinatubo 1991-95 (1995)	PG023	15.10456	120.55699	HFF	1.04	1.61
Pinatubo 1991-95 (1995)	PG024	15.08815	120.58480	HFF	0.18	1.42
Pinatubo 1991-95 (1995)	PG025	15.08815	120.58480	HFF	0.41	2.55
Pinatubo 1991-95 (1995)	PG026	15.08815	120.58480	HFF	1.04	1.15
Pinatubo 1991-95 (1993)	PN101	15.13199	120.51999	DF	-0.49	3.05
Pinatubo 1991-95 (1993)	PN102	15.13199	120.51999	HFF	1.45	1.64
Pinatubo 1991-95 (1993)	PN103	15.13199	120.51999	HFF	1.02	1.42
Pinatubo 1991-95 (1993)	PN105	15.13199	120.51999	HFF	0.95	2.29
Pinatubo 1991-95 (1993)	PN106	15.13199	120.51999	HFF	1.80	1.21
Pinatubo 1991-95 (1994)	PN107	15.09851	120.55862	HFF	1.50	1.30
Pinatubo 1991-95 (1994)	PN109	15.09851	120.55862	HFF	1.68	1.70
Pinatubo 1991-95	PN113	15.25226	120.36885	DF	-2.30	2.27
Pinatubo 1991-95	PN114	15.07116	120.29546	DF	-1.46	2.68
Pinatubo 1991-95	PN115	15.07116	120.29546	HFF	0.80	1.69
Pinatubo 1991-95	PN116	15.07116	120.29546	HFF	0.72	1.64
Pinatubo 1991-95 (1994)	PN117	15.08442	120.60471	HFF	1.43	1.78
Pinatubo 1991-95 (1994)	PN118	15.08442	120.60471	HFF	1.21	1.83
Pinatubo 1991-95 (1994)	PN119	15.08442	120.60471	HFF	1.39	1.81
Pinatubo 1991-95 (1994)	PN120	15.08442	120.60471	DF	-1.01	3.58
Pinatubo 1991-95 (1992)	PN122	15.01140	120.65475	HFF	4.05	1.37
Pinatubo 1991-95 (1991)	PN125	15.01140	120.65475	HFF	2.48	1.40
Bandai 1888	BL01	37.59228	140.12101	MF	1.49	3.15
Bandai 1888	BL02	37.59228	140.12101	MF	1.51	3.34
Bandai 1888	BL03	37.59228	140.12101	MF	2.08	3.06
Bandai 1888	BL04	37.59228	140.12101	MF	1.99	2.76
Bandai 1888	BL05	37.59228	140.12101	MF	1.86	2.71
Bandai 1888	BL06	37.59228	140.12101	MF	1.47	3.04
Bandai 1888	BL07	37.59228	140.12101	MF	0.71	3.38
Oshima-S2-c	OS208	34.74007	139.38200	MF	1.90	3.00
Oshima-S2-c	OS209	34.74399	139.35965	MF	1.99	2.99
Oshima-S2-c	OS210	34.74399	139.35965	MF	1.45	3.26
Oshima-S2-c	OS211	34.71740	139.41063	MF	0.06	3.44
Addatara-Sukawa	AD01	37.61573	140.18769	MF	0.07	3.98
Addatara-Sukawa	AD02	37.61573	140.18769	MF	1.59	3.53
Numazawa-Numazawako	DF01	37.57362	139.76149	DF	-2.52	3.00
Numazawa-Numazawako	DF02	37.57362	139.76149	DF	-1.31	3.02
Numazawa-Numazawako	DF03	37.57362	139.76149	HFF	0.52	1.59
Numazawa-Numazawako	DF04	37.57241	139.75973	HFF	0.87	1.48
Numazawa-Numazawako	DF05	37.57241	139.75973	HFF	0.99	1.37
Numazawa-Numazawako	DF06	37.57362	139.76149	DF	-2.85	3.03
Numazawa-Numazawako	DF07	37.57255	139.76235	HFF	0.89	1.38
Numazawa-Numazawako	DF08	37.57255	139.76235	HFF	-0.08	2.60
Numazawa-Numazawako	DF09	37.57255	139.76235	HFF	0.57	1.94
Numazawa-Numazawako	DF10	37.72233	139.50130	HFF	-0.08	2.56
Numazawa-Numazawako	HF01	37.57241	139.75973	HFF	1.94	0.87
Numazawa-Numazawako	HF02	37.57241	139.75973	HFF	1.53	1.37
Numazawa-Numazawako	HF03	37.57241	139.75973	HFF	2.14	0.71

Numazawa-Numazawako	HF04	37.57241	139.75973	HFF	1.84	1.00
Numazawa-Numazawako	HF05	37.57241	139.75973	HFF	-0.43	2.89
Numazawa-Numazawako	HF06	37.57241	139.75973	HFF	1.71	0.92
Numazawa-Numazawako	HF07	37.57241	139.75973	HFF	1.06	1.67
Numazawa-Numazawako	HF08	37.50262	139.69922	HFF	1.36	0.84
Numazawa-Numazawako	HF09	37.50262	139.69922	HFF	0.64	1.11
Numazawa-Numazawako	HF10	37.50262	139.69922	HFF	1.30	1.09
Numazawa-Numazawako	HF11	37.50262	139.69922	HFF	0.00	1.89
Numazawa-Numazawako	HF12	37.62437	139.76913	HFF	1.64	0.79
Numazawa-Numazawako	HF13	37.62542	139.73090	DF	-1.10	3.34
Numazawa-Numazawako	HF14	37.62542	139.73090	HFF	1.93	0.97
Numazawa-Numazawako	HF15	37.62542	139.73090	HFF	2.91	0.61
Numazawa-Numazawako	HF16	37.62542	139.73090	HFF	2.57	0.70
Numazawa-Numazawako	HF17	37.62542	139.73090	HFF	2.46	0.74
Numazawa-Numazawako	HF18	37.62542	139.73090	HFF	1.55	1.39
Numazawa-Numazawako	HF19	37.72233	139.50130	HFF	1.35	2.06
Numazawa-Numazawako	HF20	37.72233	139.50130	HFF	1.36	1.03
Numazawa-Numazawako	HF21	37.72233	139.50130	HFF	2.51	0.84
Numazawa-Numazawako	HF22	37.72233	139.50130	HFF	2.54	0.76
Numazawa-Numazawako	HF23	37.72233	139.50130	HFF	1.73	1.16
Numazawa-Numazawako	HF24	37.72233	139.50130	HFF	2.31	0.75
Numazawa-Numazawako	HF25	37.67673	139.57297	HFF	3.70	1.07
Numazawa-Numazawako	HF26	37.67673	139.57297	HFF	3.70	1.13
Numazawa-Numazawako	HF27	37.67673	139.57297	HFF	3.54	1.36
Numazawa-Numazawako	HF28	37.62437	139.76913	HFF	1.14	1.20
Numazawa-Numazawako	HF29	37.62437	139.76913	HFF	-0.42	2.47
Numazawa-Numazawako	HF30	37.62437	139.76913	HFF	1.77	0.88
Numazawa-Numazawako	HF31	37.62437	139.76913	HFF	1.55	1.11
Numazawa-Numazawako	HF32	37.62437	139.76913	HFF	1.04	1.62
Numazawa-Numazawako	HF33	37.61679	139.71622	HFF	-1.08	2.68
Numazawa-Numazawako	HF34	37.61679	139.71622	HFF	1.33	1.70
Numazawa-Numazawako	HF35	37.61679	139.71622	HFF	0.29	2.30
Numazawa-Numazawako	HF36	37.61679	139.71622	HFF	1.96	1.13
Numazawa-Numazawako	HF37	37.60690	139.63344	HFF	2.40	0.56
Numazawa-Numazawako	HF38	37.56666	139.75828	HFF	1.00	1.32
Numazawa-Numazawako	HF40	37.56666	139.75828	HFF	0.38	1.79
Numazawa-Numazawako	HF41	37.60690	139.63344	HFF	1.86	1.32
Numazawa-Numazawako	HF42	37.60690	139.63344	HFF	2.62	0.58
Numazawa-Numazawako	HF43	37.60690	139.63344	HFF	2.42	0.59
Numazawa-Numazawako	HF44	37.60690	139.63344	HFF	2.71	0.53
Numazawa-Numazawako	HF45	37.60458	139.75716	HFF	-0.27	2.55
Numazawa-Numazawako	HF46	37.60458	139.75716	HFF	1.69	0.97
Numazawa-Numazawako	HF47	37.60458	139.75716	HFF	1.24	1.43
Numazawa-Numazawako	HF48	37.62913	139.78759	HFF	2.13	1.42
Numazawa-Numazawako	HF49	37.62913	139.78759	HFF	1.11	1.71
Numazawa-Numazawako	HF50	37.62913	139.78759	HFF	2.01	0.71
Numazawa-Numazawako	HF51	37.62913	139.78759	HFF	2.48	0.57
Numazawa-Numazawako	HF52	37.62913	139.78759	HFF	2.18	0.62
Tadami River	FF01	37.57255	139.76235	SF	-2.93	2.67
Tadami River	FF02	37.57255	139.76235	SF	-3.51	2.36
Tadami River	FF03	37.57255	139.76235	SF	-2.15	1.83
Tadami River	FF04	37.57255	139.76235	SF	-1.51	1.70
Tadami River	FF05	37.57255	139.76235	SF	-1.46	1.37
Tadami River	FF06	37.57255	139.76235	SF	0.50	1.20
Tadami River	FF07	37.57255	139.76235	SF	0.11	1.43
Tadami River	FF08	37.57255	139.76235	SF	1.86	0.86
Tadami River	FF09	37.57362	139.76149	SF	-0.98	1.66
Tadami River	FF10	37.57362	139.76149	SF	1.04	1.04
Tadami River	FF11	37.57362	139.76149	SF	0.30	1.36
Tadami River	FF12	37.57362	139.76149	SF	1.46	0.80

DF = Debris flow

HFF = Hyperconcentrated flood flow

MF = Mud flow

SF = Stream flow