



Figure S1. Soil invertebrate community composition and number distribution. The inner circle, middle circle, and outer circle represent the three levels of classification: class, order, and family. The numbers in the outer circle indicate the number of soil invertebrates classified at each family level. The interval of the ruler represents the color represented by the number of soil invertebrates in the graph.

Table S1. Composition of soil invertebrate community in the litter layer.

Litter layer																					
Order	Family	Functional Groups	Mixed forest				Bamboo forest				Chinese fir forest				Broad-leaved forest				Total	Proportion (%)	Dominance
			T1	T2	T3	T4	T1	T2	T3	T4	T1	T2	T3	T4	T1	T2	T3	T4			
			Number of individual soil invertebrates																		
Prostigmata	Pygmephoridae	Saprophage		25	21	29	67	21	27	12	17	22	8	7	23	15	3	2	299	3.57%	++
	Erythraeidae	Predatory	33	51	31	39	16		18	39	22	13	1	12	23	2	3	10	313	3.73%	++
	Anystidae	Predatory	1	2	2	10		7		5			1	1	2	1		1	33	0.39%	+
Mesostigmata	Pachylaelapidae	Predatory	4	6	6	16	17	1		13	7	4		3	16		3	3	99	1.18%	++
	Macrochelidae	Saprophage	7		2		3				4				7	2			25	0.30%	+
	Laelapidae	Predatory	55	3	3	9	5	11		6	41			6	31	2	5	2	179	2.13%	++
	Ascidae	Predatory	64	10	12	5	29	15	1	20	32	5	2	18	41	8	6	31	299	3.57%	++
	Parholaspididae	Saprophage	11	13	12	18	49	3	32	17	32	8	9	15	18	13	19	22	291	3.47%	++
	Ologamasidae	Predatory	9	6	12	15	5	2	5	20	7	6	5	8	15	5	7	7	134	1.60%	++
	Veigaiidae	Saprophage	9			5				5				7	7			7	40	0.48%	+
	Uropodidae	Predatory									6				9	1			16	0.19%	+
	Epicriidae	Predatory			1	5			1	3			2	4				3	19	0.23%	+
	Eviphididae	Saprophage				5	1				1			1	11		2	3	24	0.29%	+
	Ameroseiidae	Predatory		18	2	2												1	23	0.27%	+
Oribatida	Nanhermanniidae	Saprophage	15	12	2	5	23			1	5	3	2	7	7	5		9	96	1.14%	++
	Oppiidae	Saprophage	130	96	47	45	60	2	7	23	44	32	2	20	51	13	11	6	589	7.02%	++
	Carabodidae	Saprophage	1			2				1	4	1	1		1	1			12	0.14%	+
	Galumnidae	Saprophage	3	9	7	8	9	11		1	17	3		3	14		1	3	89	1.06%	++

Haplozetidae	Saprophage	17	15	10	9	20	7	10	17	7	2	7	6	20	8	11	7	173	2.06%	++
Suctobelbidae	Saprophage	3	21	15	4	15		16	14						2	1	10	101	1.20%	++
Hypochthoniidae	Fungivore	94	32	14	17	64	120	4	15	1	5	6	4	13	5	8	1	403	4.81%	++
Tectocephidae	Fungivore	12	2	6	13	14	2		8	15	4	2	4	3	7	5	8	105	1.25%	++
Mochlozetidae	Fungivore	6	2	16	25	9		1	33	2	6		11		10	1	2	124	1.48%	++
Hermanniidae	Fungivore	1				8	5				3	1	1	10		5		34	0.41%	+
oribatidae	Saprophage	1		3	1											1	1	7	0.08%	+
Ceratozetidae	Saprophage		9		5			20	36	7		26	9				8	120	1.43%	++
Cymbaeremacidae	Phytophage						1			16		1	1	5	5	2	4	35	0.42%	+
Phthiracaridae	Saprophage	1			1				1	18	1	1		8	1	2	5	39	0.47%	+
Scheloriobatidae	Saprophage	20	18	28	10	31	17	14	3	49	46	19	6	18	8	1	1	289	3.45%	++
Nothridae	Saprophage	3		2	2					5						2		14	0.17%	+
Trhypochthoniidae	Fungivore	29	8	4	18	72	10	9	7	57	5	2	1	39	7	5	6	279	3.33%	++
Liacaridae	Saprophage	2	1			4	7		1		2	4	2	5	1	1	2	32	0.38%	+
Malaconothridae	Saprophage	8	15	2				4	3	4		2					3	41	0.49%	+
Austrachipteriidae	Saprophage		5		5	1		5		13			1				3	33	0.39%	+
Epilohmanniidae	Saprophage	2		2		5	5		8	16	2	4	6	11	6	1	9	77	0.92%	+
Oribatulidae	Saprophage	19	21	28	2	20	18	31	27	8	9	7	2	5		14	5	216	2.58%	++
Oribotritiidae	Saprophage	3	6	9	8	6	1		5	2	2	3	7	9	4	2	2	69	0.82%	+
oripodidae	Fungivore	2		8	2	44	11		1	10	2		3	3	1		2	89	1.06%	++
Uracrobates	Predatory				6	1	3	8	8	1		2		2	1		3	35	0.42%	+
Malmcoangelia	Fungivore	7				11					1			7				26	0.31%	+
Zetorchestidae	Saprophage	7		1	5	3			1	2			4	8				31	0.37%	+
Camisiidae	Fungivore	5	18	10	3	8	1	3		20	13	5	5	9	5	2	8	115	1.37%	++
Cepheidae	Saprophage		2	1								4		2		1	3	13	0.16%	+
Hermanniellidae	Predatory	4				3				4						1		12	0.14%	+

Collembola	oribatellidae	Saprophage	27	10	9	13	120	13	34	17	31	2	9	10	21	1	11	3	331	3.95%	++
	Damaciidae	Saprophage	1	1		1		6	5		4	1	3	2	8	3		7	42	0.50%	+
	Peloppiidae	Saprophage		2					4									6	12	0.14%	+
	Brachychthoniidae	Fungivore				3								1					4	0.05%	+
	Isotomidae	Fungivore	114	28	8	22	64	18	1	15	44	17	1	9	55	29	9	8	442	5.27%	++
	Onychiuridae	Fungivore	67	6	8	7	20	89		11	13	3	1	5	22	5	5	1	263	3.14%	++
	Tomoceridae	Saprophage	6	6	7	4		2	7		7	2		3	8	2	1		55	0.66%	+
	Hypogastruridae	Omnivore	151	16	14	16	27	16	5	13	14	11	6	14	39	23		5	370	4.41%	++
	Cyphoderidae	Fungivore	5	1	8	10	8		1	11	6	6	5	15	5	14		6	101	1.20%	++
	Neanridae	Fungivore	7							2							2		11	0.13%	+
	Sminthuridae	Saprophage	1	4	8	8	3		6	3	1	3	4	6	7	3	2	7	66	0.79%	+
Coleoptera	Entomobryidae	Fungivore	39	26	5	10	7	12			31	4	6	7	9	1	3	6	166	1.98%	++
	Carabidae	Predatory	1	7	7	11	1	2	1	9	10	1	1	4	15		8	4	82	0.98%	+
	Erotylidae	Fungivore	3		1		3											2	9	0.11%	+
	Nitidulidae	Fungivore					1												1	0.01%	+
	Biphyllidae	Phytophage	5			14	9	2		19	3	2		16	5	4		12	91	1.09%	++
	Diseolomidae	Phytophage				4	3	4		1		2		4	4	3		3	28	0.33%	+
	Curculionidae	Phytophage		3		3	3	4		2	2	1		2		3		7	30	0.36%	+
	Pselaphidae	Phytophage									3				1				4	0.05%	+
	Scaphidiidae	Predatory						1											1	0.01%	+
	Chrysomelidae	Phytophage		2		2		3				2		3		2		2	16	0.19%	+
	Cucujidae	Predatory											1						1	0.01%	+
	Endomychidae	Fungivore			1													1	2	0.02%	+
	Elateridae	Phytophage				5												1	6	0.07%	+
	Scydmaenidae	Predatory												4					4	0.05%	+
	Staphylinidae	Predatory	6		3	2	2			5	6	1			7	1		4	37	0.44%	+

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	Tettigoniidae	Phytophage			3														3	0.04%	+
	Gryllidae	Omnivore							1	1	2		1	1					6	0.07%	+
Hymenoptera	Formicidae	Omnivore	26	15	15	6	25	17	5	16	42	7	10	7	18	15	12	9	245	2.92%	++
	Termitidae	Omnivore			1										6	10			17	0.20%	+
Blattaria	Corydiidae	Omnivore	1												8				9	0.11%	+
	Blattaria	Saprophage			3														3	0.04%	+
Araneae	Araneae	Predatory	15	9	5	15	2	5	2	11	6	4	6	10	6	7	3	7	113	1.35%	++
Thysanoptera	Phloeothripidae	Phytophage	15	6	3	7	7	4	1	8	9	1	5	4	12	1	6	5	94	1.12%	++
Pseudoscorpionida	Neobisiidae	Predatory					8	8	2		11	1	2		7	1			40	0.48%	+
Mantodea	Mantidae	Predatory		2	2	4	4	1	2	3	1								19	0.23%	+
Isopoda	Oniscidae	Saprophage	2	1	2	6	2	1	2	4	9	3	1	4	5	1	1	1	45	0.54%	+
Haplotaxida	Lumbricidae	Saprophage	3	2	5	6				1		1	1	3	8	3	1	2	36	0.43%	+
Protura	Antelientomidae	Fungivore		5						1		1	2					4	13	0.16%	+
Spirobolida	Spirobolidae	Phytophage	7	4	2	7	2	1	1	6	2	1		5	4	2		5	49	0.58%	+
Araneida	Scolopendridae	Predatory	1		3	6		5		5	4						1	2	27	0.32%	+
Geophilomorpha	Geophilidae	Predatory			2	11	1	1	1	6	4	2		3	2				33	0.39%	+
Lithobiomorpha	Lithobiidae	Predatory	1	2	2	2	1		1	2	1		1		4	1		4	22	0.26%	+
Symphyla	Scutigereidae	Saprophage		3	2	2	1	1	2	3	1				2			4	21	0.25%	+
	Scolopendrellidae	Saprophage		2	2	2		4	1	3		3		2				3	22	0.26%	+
	Geophilellidae	Saprophage		2		1				4			1	1				4	13	0.16%	+

Notes: T1: one week before the first typhoon (Hinnamnor). T2: one day after the first typhoon (Hinnamnor). T3: one day after the second typhoon (Muifa). T4: one week after the second typhoon (Muifa). The numbers in the table represent the number of soil invertebrates in each family. +, Rare group; ++, Frequent group; +++, Dominant group.

Table S2. Composition of soil invertebrate community in topsoil layer.

[illegible]

Oppiidae	Saprophage	2	2	3	4	2	2	1	4	1	5	3	2	3	3	1	2	40	6.76%	++
Carabodidae	Saprophage		1	1		1						4	1			1	2	11	1.86%	++
Galumnidae	Saprophage			1														1	0.17%	+
Haplozetidae	Saprophage				2			2							1			5	0.84%	+
Suctobelbidae	Saprophage							1						1				2	0.34%	+
Hypochthoniidae	Fungivore	1	1	2			1			1					1			7	1.18%	++
Tectocephidae	Fungivore		2	3	1	2		2			2	2	1	3	1			19	3.21%	++
Mochlozetidae	Fungivore	1							2								2	5	0.84%	+
Hermanniidae	Fungivore				1				1									2	0.34%	+
Ceratozetidae	Saprophage												1					1	0.17%	+
Cymbaeremacidae	Phytophage				1						1	3	2			2	1	10	1.69%	++
PHthiracaridae	Saprophage												1	1				2	0.34%	+
Scheloribatidae	Saprophage	2			1		1		3	1	1	3		2		4	3	21	3.55%	++
Nothridae	Saprophage				1							2						3	0.51%	+
Trhypochthoniidae	Fungivore	2		1	1	1	2	1	1	1	2	1	1	1		1	2	18	3.04%	++
Liacaridae	Saprophage												1					1	0.17%	+
Malaconothridae	Saprophage				2								2					4	0.68%	+
Austrachipteriidae	Saprophage			2	3				1									6	1.01%	++
Epilohmanniidae	Saprophage							1							1		2	4	0.68%	+
Oribatulidae	Saprophage		1	5			1	2			2		1					12	2.03%	++
Oribotritiidae	Saprophage															1		1	0.17%	+
oripodidae	Fungivore		1	1									1					3	0.51%	+
Uracrobates	Predatory							1										1	0.17%	+
Malmcoangelia	Fungivore														2			2	0.34%	+
Zetorchestidae	Saprophage						1				2	1			2		1	7	1.18%	++
Camisiidae	Fungivore				1						1	1				1	1	5	0.84%	+

	oribatellidae	Saprophage	2		1	1		2			1	2	1		1	2			13	2.20%	++
	Damaeidae	Saprophage		1		5		1				1		1					9	1.52%	++
	Heloppiidae	Saprophage							1				1						2	0.34%	+
	Ghiralovus	Fungivore							1										1	0.17%	+
Collembola	Isotomidae	Fungivore	3	6	7	9	1	2	2	3	1	6		9	1	4	3	6	63	10.64%	+++
	Onychiuridae	Fungivore		2	4			3		3	3	1	3	4		3	3		29	4.90%	++
	Tomoceridae	Saprophage													1				1	0.17%	+
	Hypogastruridae	Omnivore		4					2			2	2				3		13	2.20%	++
	Neanidae	Fungivore		1									1				2		4	0.68%	+
	Sminthuridae	Saprophage				1			1			1				3		1	7	1.18%	++
	Entomobryidae	Fungivore		1		1		1	1										4	0.68%	+
Coleoptera	Carabidae	Predatory			1				1		1	2			1		2		8	1.35%	++
	Scarabaeidae	Phytophage										1							1	0.17%	+
Lepidoptera	Geometridae	Phytophage												1					1	0.17%	+
Diptera	Bibionidae	Saprophage								1								1	2	0.34%	+
	Chironomidae	Saprophage			1				1								2		4	0.68%	+
	Cylindrotomidae	Saprophage						3											3	0.51%	+
	Sciaridae	Saprophage											1						1	0.17%	+
	Scatopsidae	Saprophage								2									2	0.34%	+
	Tipulidae	Saprophage								1				1					2	0.34%	+
	Mieropezidae	Saprophage		2						1									3	0.51%	+
	Anthomyiidae	Saprophage		1															1	0.17%	+
	Dolichopodidae	Saprophage		2															2	0.34%	+
	Stratiomyidae	Saprophage															2		2	0.34%	++
Hymenoptera	Formicidae	Omnivore		3	4	1			1	2		3	1			1		1	17	2.87%	++
	Termitidae	Omnivore						1	2										3	0.51%	+

Araneae	Araneae	Predatory			2		1					3	0.51%	+	
Thysanoptera	Phioethripidae	Phytophage							1		1	2	0.34%	+	
Pseudoscorpionida	Neobisiidae	Predatory	1				1		1	1	1	5	0.84%	+	
Isopoda	Oniscidae	Saprophage	1				2					3	0.51%	+	
Haplotaxida	Lumbricidae	Saprophage			2				2		2	2	8	1.35%	++
Protura	Antelientomidae	Fungivore							2			2	0.34%	+	
Spirobolida	Spirobolidae	Phytophage										2	2	0.34%	+
Geophilomorpha	Geophilidae	Predatory			1		1				1	3	0.51%	+	
Symphyla	Scutigerellidae	Saprophage			1		1				1	3	0.51%	+	
	Scolopendrellidae	Saprophage		1	1	1		1	2			6	1.01%	++	
	Geophilellidae	Saprophage			2	1	1	1			2	7	1.18%	++	

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