

Table S1. Descriptive statistics of 10 most abundant termite species in a 1 ha plot.

Species	No. of quadrats sampled	Mean	SD	Min	Max	Relative abundance	CV
<i>Odontotermes formosanus</i>	218	82.87	97.51	1	648	35.47	1.30
<i>Macrotermes barneyi</i>	185	53.74	61.62	3	331	19.52	1.18
<i>Odontotermes hainanensis</i>	111	40.28	46.31	4	252	8.78	1.11
<i>Odontotermes angustignathus</i>	70	43.27	61.57	5	341	5.95	1.43
<i>Peribulbitermes jinghongensis</i>	32	221	251.46	3	1130	13.88	1.37
<i>Ancistrotermes dimorphus</i>	31	42.45	51.94	6	275	2.58	1.30
<i>Pericapritermes tetraphilns</i>	28	31.68	29.68	7	144	1.74	0.93
<i>Havilanditermes orthonasus</i>	19	135.84	104.06	10	259	5.07	0.73
<i>Macrotermes yunnanensis</i>	17	22.65	20.45	5	91	0.76	0.90
<i>Pericapritermes latignathus</i>	10	26.3	12.15	12	47	0.52	0.46

Table S2. Niche overlaps among termite feeding groups and abundant species.

Feeding groups	Niche Overlap	Species	Niche Overlap
Soil-wood and Litter	0.39	<i>O. formosanus</i> and <i>M. barneyi</i>	0.32
Fungus and Soil	0.36	<i>O. formosanus</i> and <i>Pb. jinghongensis</i>	0.12
Soil-wood and Soil	0.30	<i>O. angustignathus</i> and <i>O. formosanus</i>	0.07
Soil-wood and Wood	0.30	<i>M. yunnanensis</i> and <i>M. barneyi</i>	0.05
Fungus and Soil-wood	0.28	<i>O. angustignathus</i> and <i>Pb. jinghongensis</i>	0.05
Fungus and Wood	0.14	<i>O. angustignathus</i> and <i>M. barneyi</i>	0.05
Wood and Litter	0.08	<i>M. yunnanensis</i> and <i>O. formosanus</i>	0.02
Wood and Soil	0.07	<i>Pb. jinghongensis</i> and <i>M. barneyi</i>	0.02
Fungus and Litter	0.06	<i>M. yunnanensis</i> and <i>Pb. jinghongensis</i>	0.02
Litter and Soil	0	<i>M. yunnanensis</i> and <i>O. angustignathus</i>	0.01

Note: Niche overlap; 0 = No overlap, 1 = Total overlap.

Table S3. Correlation between termite species and environmental factors at 0.05 significance level.

Environmental Variables	Habitat	OF	MB	OH	OA	PJ	AD	PT	HO	MY	PL
TPI	High	+	+	+	NS	+	+	+	+	+	+
	Medium	NS	NS	-	NS	NS	-	-	-	-	NS
	Low	-	-	-	NS	-	-	-	-	+	NS
Biomass	High	NS	NS	NS	+	-	NS	NS	+	NS	NS
	Medium	+	NS	+	-	NS	NS	NS	NS	-	NS
	Low	NS	-	-	NS	+	NS	NS	NS	+	+
Litter	High	-	NS	NS	-	NS	+	+	NS	-	+
	Medium	NS	NS	NS	+	+	-	+	+	+	-
	Low	NS	NS	NS	-	-	-	-	-	-	+
pH	High	-	-	-	NS	-	-	NS	-	+	NS
	Medium	-	-	-	-	+	NS	-	+	-	NS
	Low	+	+	+	+	+	NS	+	+	+	NS

Note: positive correlation (+), negative correlation (-), not significant (NS).