

Figure S1. The composition of termite feeding groups and the species involved. Letters in the figure show the names of 5 feeding groups and 24 species of termites, whereas the numbers indicate the activity-density of individual termite feeding groups and species.

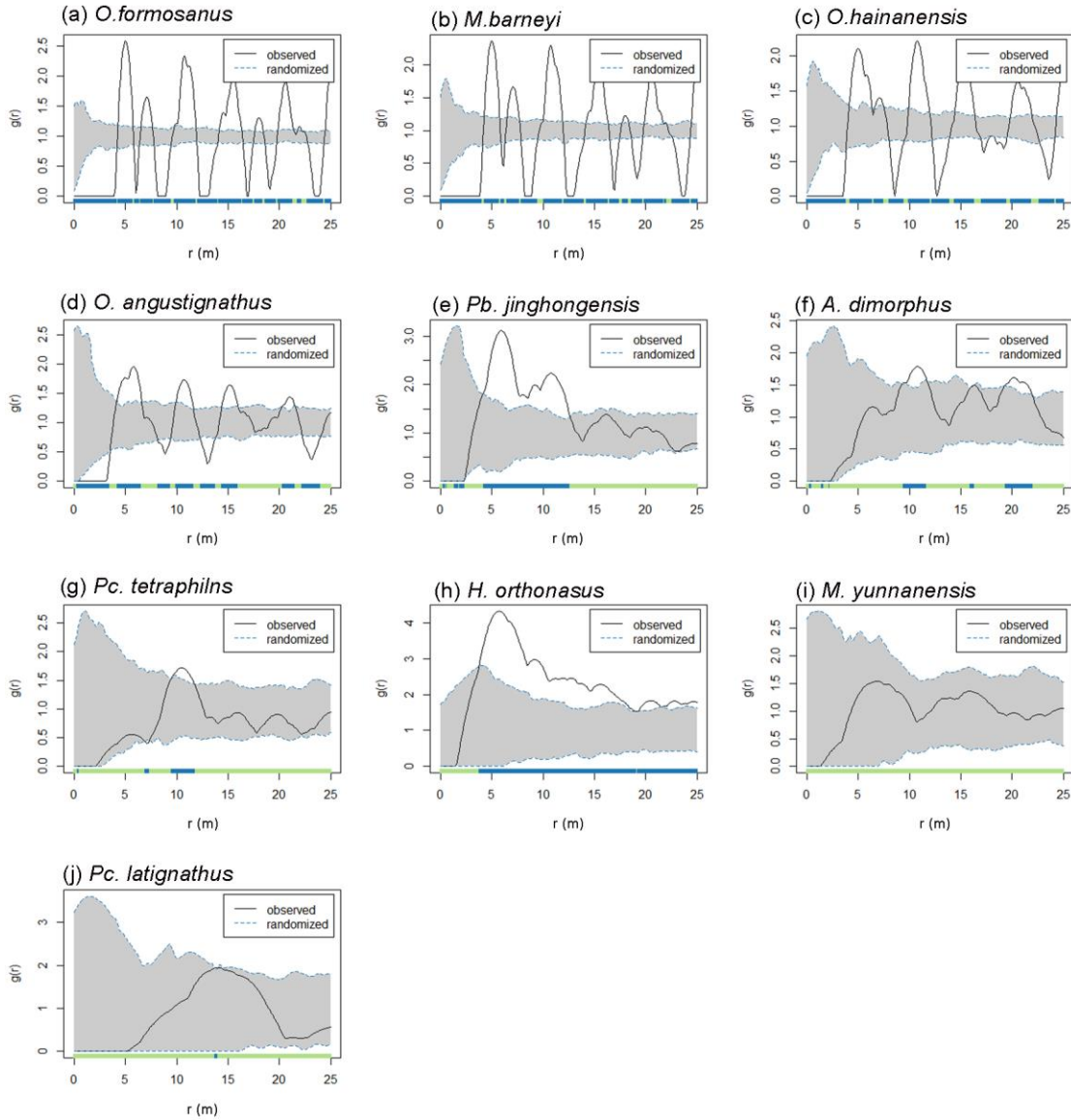


Figure S2. The spatial distribution pattern by pair correlation function of for (a) *Odontotermes formosanus* (OF), (b) *Macrotermes barneyi* (MB), (c) *Odontotermes hainanensis* (OH), (d) *Odontotermes angustignathus* (OA), (e) *Peribulbitermes jinghongensis* (PJ), (f) *Ancistrotermes dimorphus* (AD), (g) *Pericapritermes tetraphilns* (PT), (h) *Havilanditermes orthonasus* (HO), (i) *Macrotermes yunnanensis* (MY) and (j) *Pericapritermes latignathus* (PL). The grey boundary shows the randomized pattern of distribution and the black line represents the observed pattern of distribution.

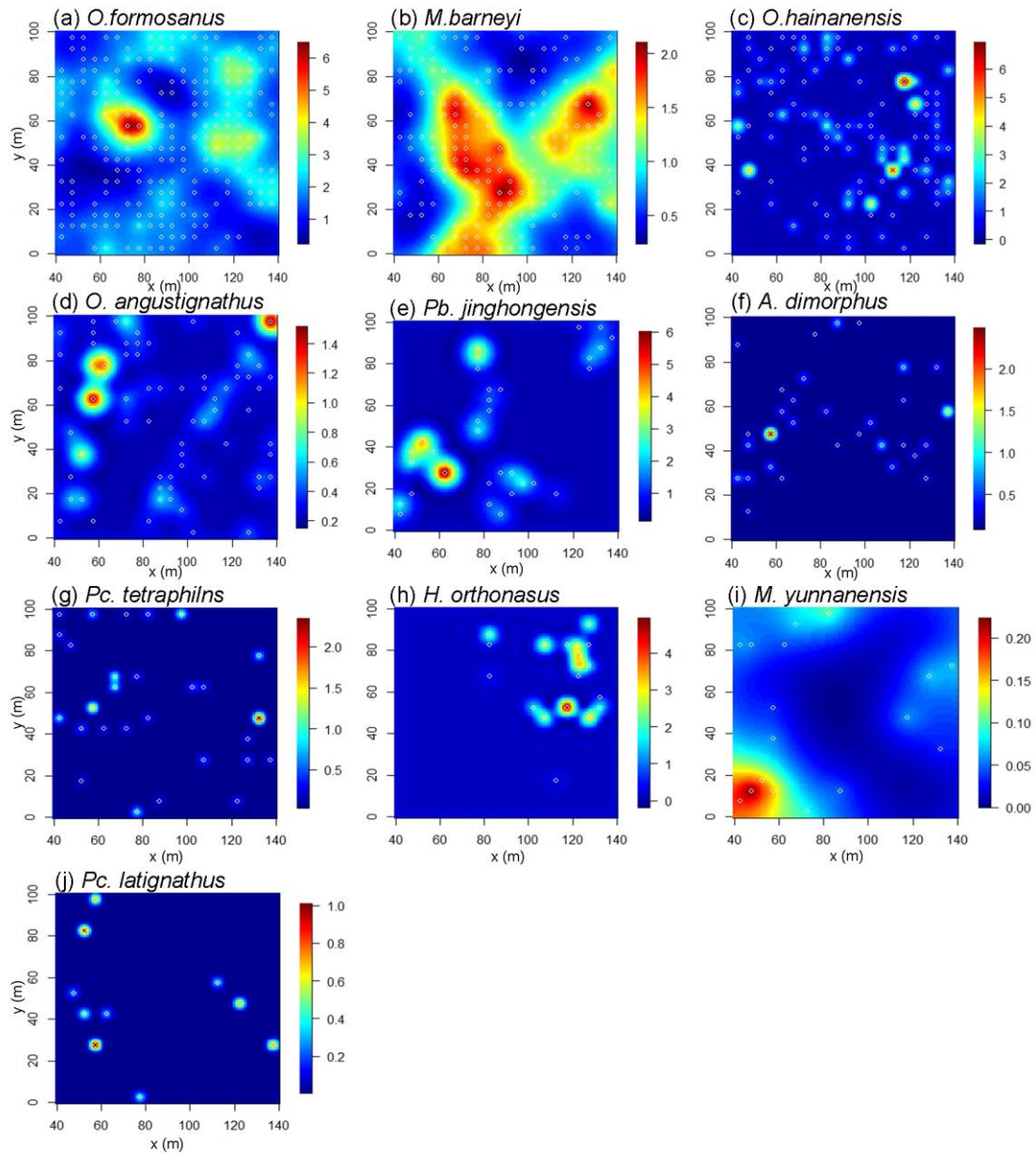


Figure S3. The spatial distribution map of (a) *Odontotermes formosanus* (OF), (b) *Macrotermes barneyi* (MB), (c) *Odontotermes hainanensis* (OH), (d) *Odontotermes angustignathus* (OA), (e) *Peribulbitermes jinghongensis* (PJ), (f) *Ancistrotermes dimorphus* (AD), (g) *Pericapritermes tetrabilis* (PT), (h) *Havilanditermes orthonasus* (HO), (i) *Macrotermes yunnanensis* (MY) and (j) *Pericapritermes latignathus* (PL) in the 1-ha plot. The scale bar represents the number of termite individuals in the 1 m² quadrat. The white circles represent the points at which termite species were observed.

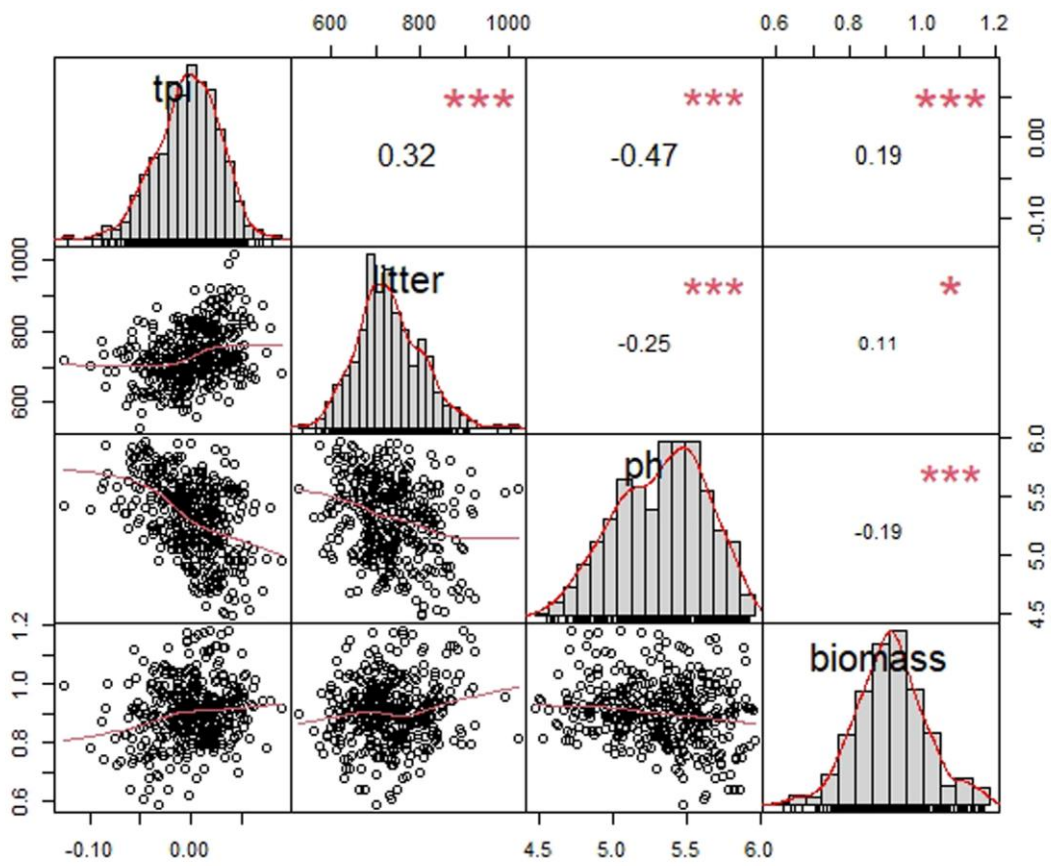


Figure S4. Pearson correlation among environmental factors.

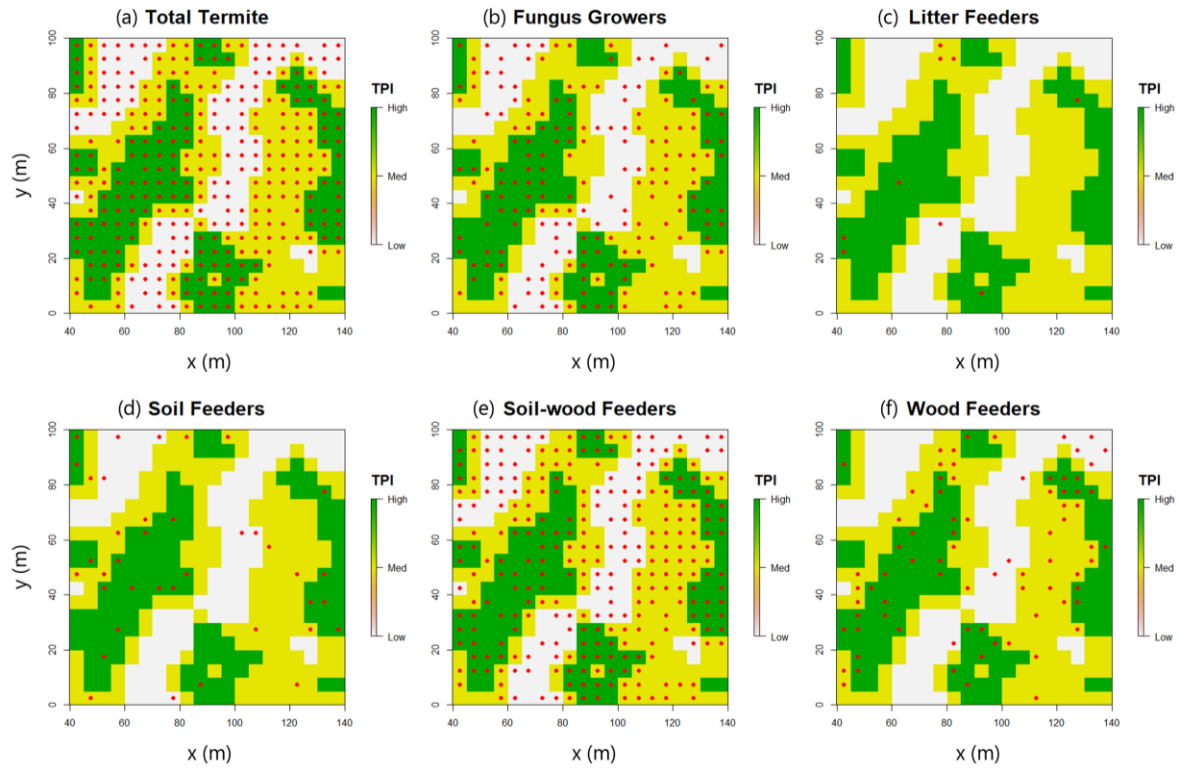


Figure S5. The species-habitat association map of (a) all collected termites, (b) fungus growers, (c) litter feeders, (d) soil feeders, (e) soil-wood feeders, and (f) wood feeders in the 1-ha plot. The scale bar represents the TPI in the 5 m² quadrat. The red dots represent the points at which termite groups were observed.

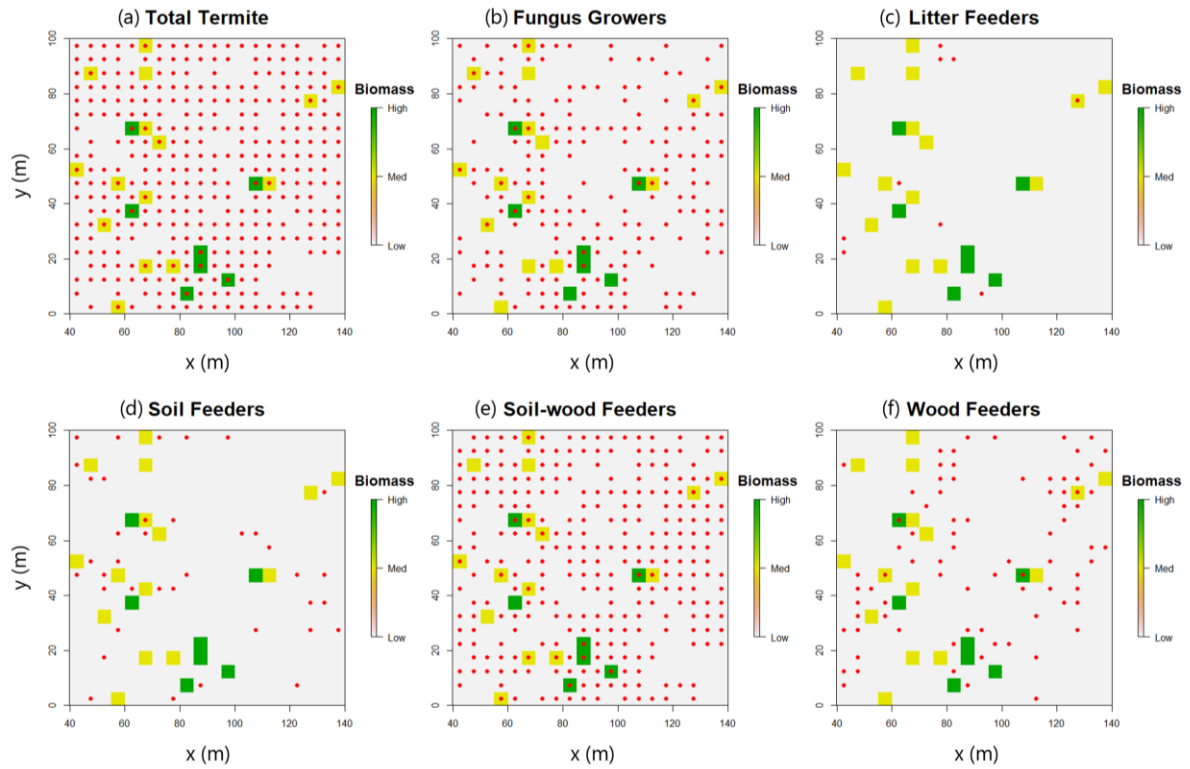


Figure S6. The species-habitat association map of (a) all collected termites, (b) fungus growers, (c) litter feeders, (d) soil feeders, (e) soil-wood feeders, and (f) wood feeders in the 1-ha plot. The scale bar represents the amount of total plant biomass in the 5 m² quadrat. The red dots represent the points at which termite groups were observed.

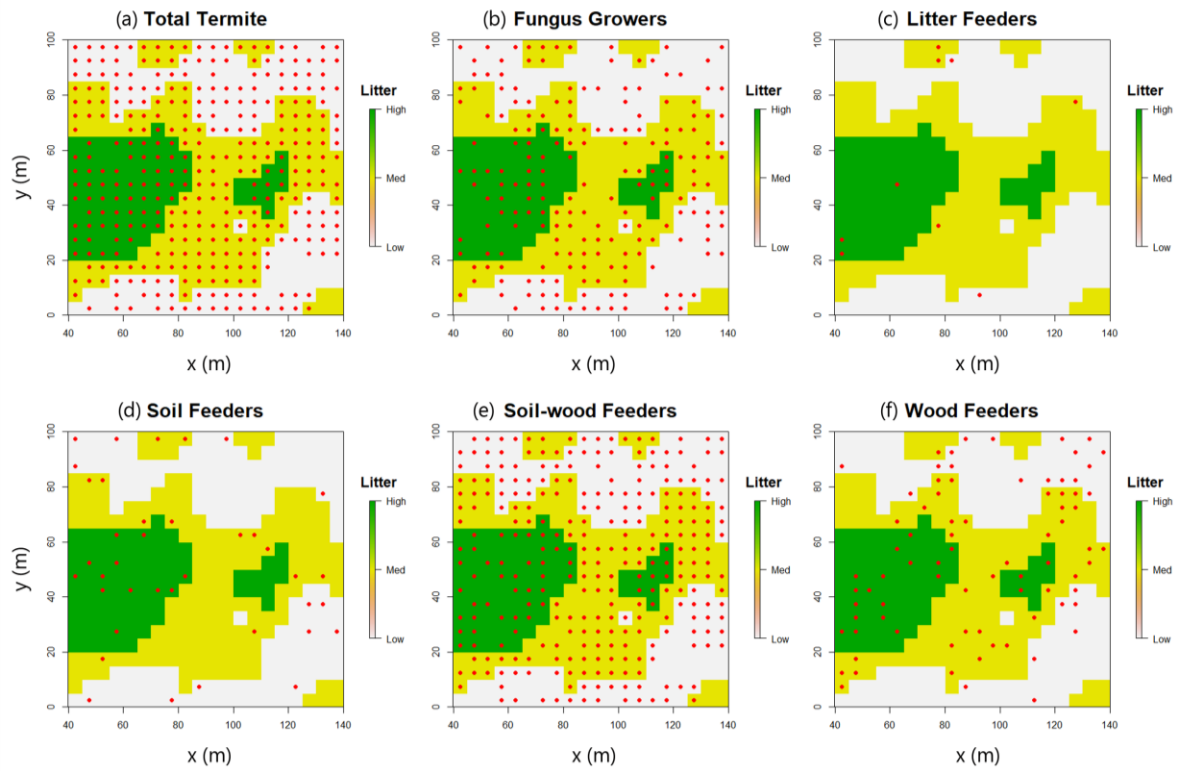


Figure S7. The species-habitat association map of (a) all collected termites, (b) fungus growers, (c) litter feeders, (d) soil feeders, (e) soil-wood feeders, and (f) wood feeders in the 1-ha plot. The scale bar represents the amount of litter mass in the 5 m² quadrat. The red dots represent the points at which termite groups were observed.

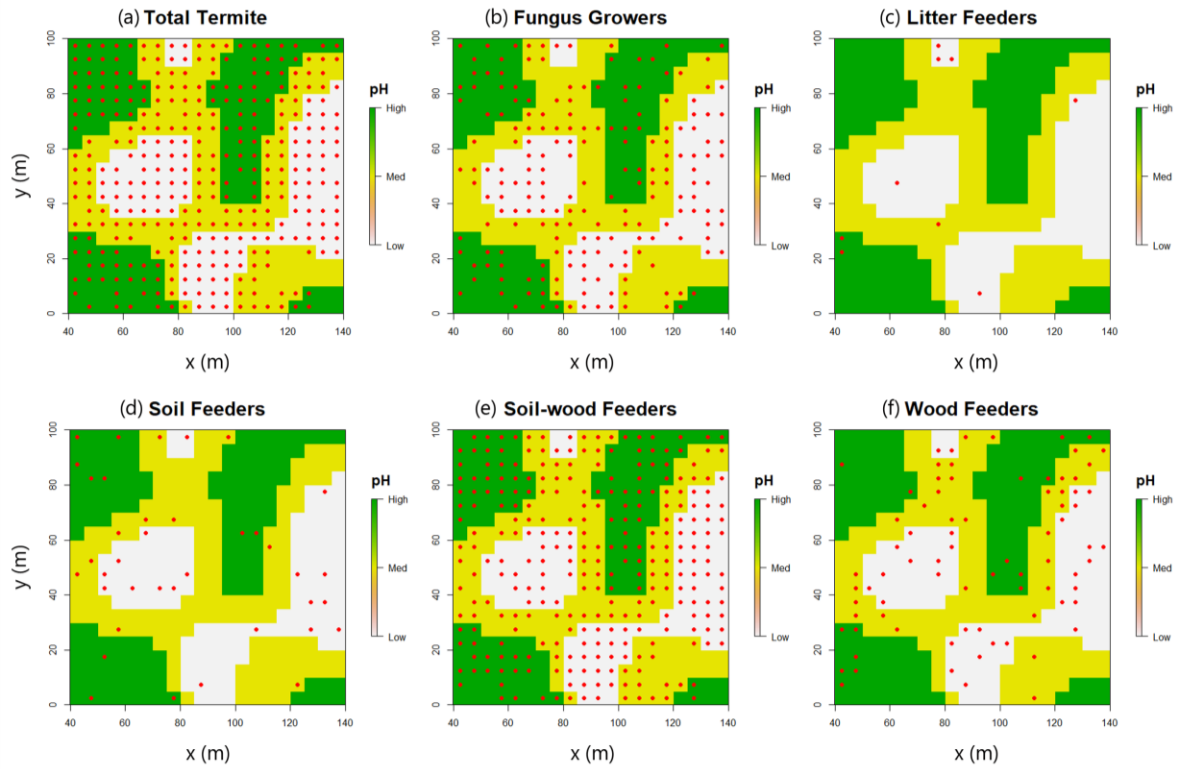


Figure S8. The species-habitat association map of (a) all collected termites, (b) fungus growers, (c) litter feeders, (d) soil feeders, (e) soil-wood feeders, and (f) wood feeders in the 1-ha plot. The scale bar represents the pH level in the 5 m² quadrat. The red dots represent the points at which termite groups were observed.

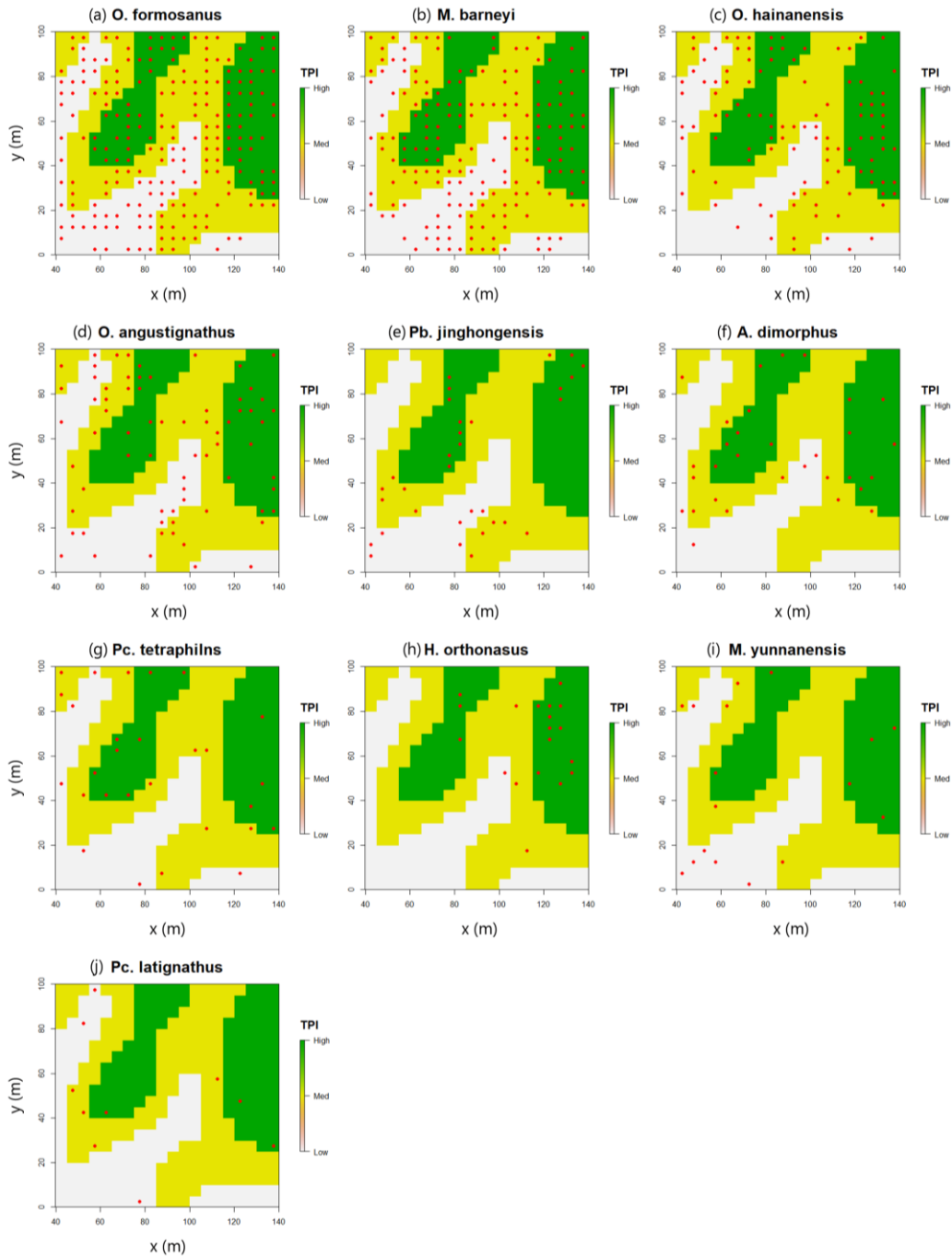


Figure S9. The species-habitat association map of (a) *Odontotermes formosanus* (OF), (b) *Macrotermes barneyi* (MB), (c) *Odontotermes hainanensis* (OH), (d) *Odontotermes angustignathus* (OA), (e) *Peribulbitermes jinghongensis* (PJ), (f) *Ancistrotermes dimorphus* (AD), (g) *Pericapritermes tetraphilins* (PT), (h) *Havilanditermes orthonasus* (HO), (i) *Macrotermes yunnanensis* (MY) and (j) *Pericapritermes latignathus* (PL) in the 1-ha plot. The scale bar represents the TPI in the 5 m² quadrat. The red dots represent the points at which termite species were observed.

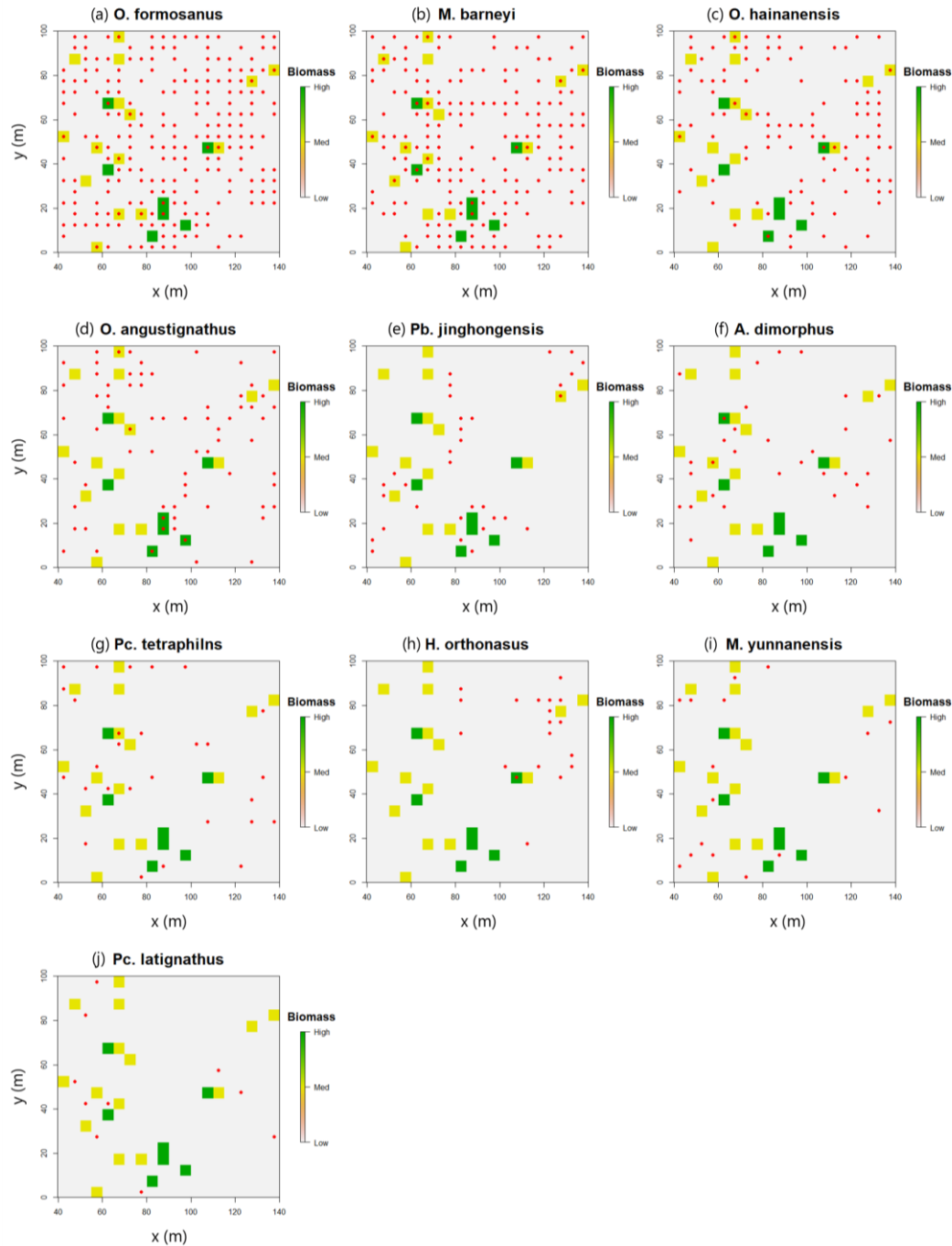


Figure S10. The species-habitat association map of (a) *Odontotermes formosanus* (*OF*), (b) *Macrotermes barneyi* (*MB*), (c) *Odontotermes hainanensis* (*OH*), (d) *Odontotermes angustignathus* (*OA*), (e) *Perilobitermes jinghongensis* (*PJ*), (f) *Ancistrotermes dimorphus* (*AD*), (g) *Pericapritermes tetrphilns* (*PT*), (h) *Havilanditermes orthonasus* (*HO*), (i) *Macrotermes yunnanensis* (*MY*) and (j) *Pericapritermes latignathus* (*PL*) in the 1-ha plot. The scale bar represents the amount of total plant biomass in the 5 m² quadrat. The red dots represent the points at which termite species were observed.

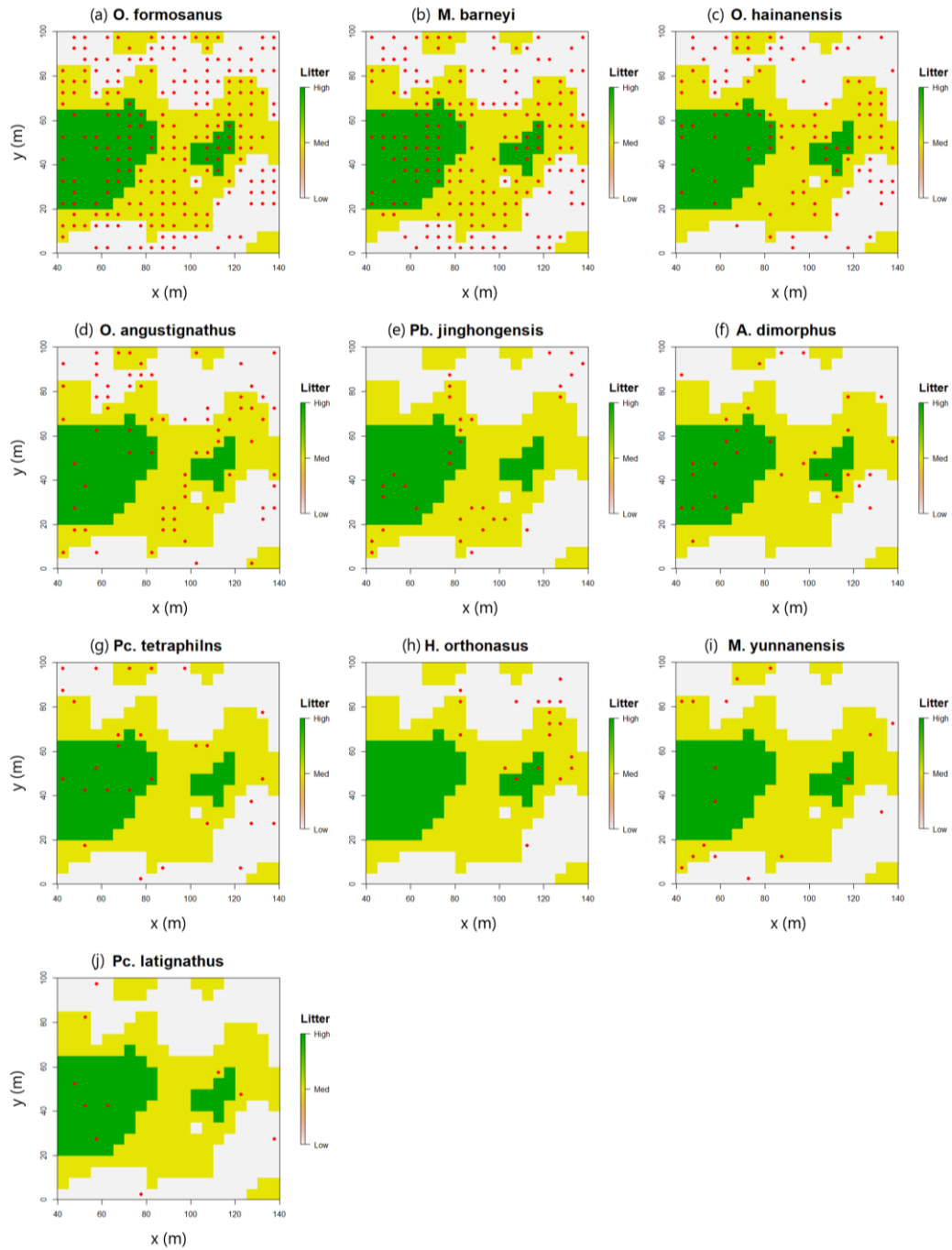


Figure S11. The species-habitat association map of (a) *Odontotermes formosanus* (*OF*), (b) *Macrotermes barneyi* (*MB*), (c) *Odontotermes hainanensis* (*OH*), (d) *Odontotermes angustignathus* (*OA*), (e) *Peribulbitermes jinghongensis* (*PJ*), (f) *Ancistrotermes dimorphus* (*AD*), (g) *Pericapritermes tetraphilins* (*PT*), (h) *Havilanditermes orthonasus* (*HO*), (i) *Macrotermes yunnanensis* (*MY*) and (j) *Pericapritermes latignathus* (*PL*) in the 1-ha plot. The scale bar represents the amount of litter mass in the 5 m² quadrat. The red dots represent the points at which termite species were observed.

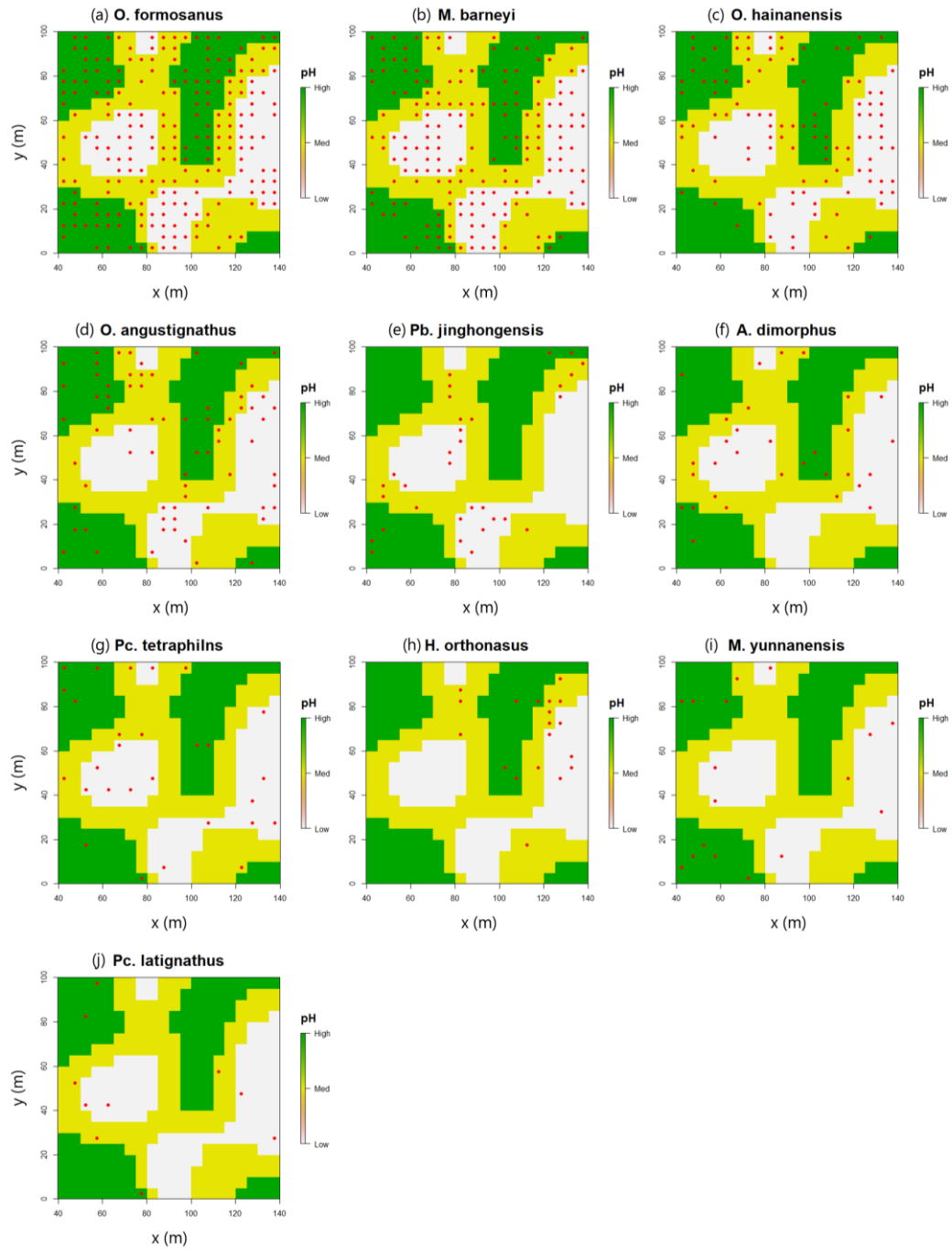


Figure S12. The species-habitat association map of (a) *Odontotermes formosanus* (OF), (b) *Macrotermes barneyi* (MB), (c) *Odontotermes hainanensis* (OH), (d) *Odontotermes angustignathus* (OA), (e) *Peribulbitermes jinghongensis* (PJ), (f) *Ancistrotermes dimorphus* (AD), (g) *Pericapritermes tetraphilins* (PT), (h) *Havilanditermes orthonasus* (HO), (i) *Macrotermes yunnanensis* (MY) and (j) *Pericapritermes latignathus* (PL) in the 1-ha plot. The scale bar represents the pH level in the 5 m² quadrat. The red dots represent the points at which termite species were observed.