Digital Appendix 1

Pitfall traps: Ecosystems surveyed, number of sampled areas, number of traps per sampled area, sampling repetitions and the total number of traps by ecosystem

Ecosystem sampled	Nº sampled areas	Number of points by sampled area	Number of pitfalls by sampled area	Repetitions (periods of the year)	Total traps / ecosystem
PF	2	7	21 (7 points x 3 pitfall)	3	126 (2 x 21 x 3)
SF-15	2	7	21 (7 points x 3 pitfall)	3	126 (2 x 21 x 3)
SF-5	2	7	21 (7 points x 3 pitfall)	3	126 (2 x 21 x 3)
Ag	2	7	21 (7 points x 3 pitfall)	3	126 (2 x 21 x 3)
Pa	2	7	21 (7 points x 3 pitfall)	3	126 (2 x 21 x 3)
Total number of pitfalls					630 (126 x 5)

PF = Preserved forest; SF-15 = Secondary forest (15 years of regeneration); SF-5 = Secondary forest (5 years of regeneration); Ag = Agriculture (Cocoa); Pa = Pasture.

Digital Appendix 2

Litter sampling: Ecosystems surveyed, number of sampled areas, number of points per sampled area, sampling repetitions and the total number of points by ecosystem

Ecosystem sampled	Nº sampled areas	Number of points by sampled area	Repetitions (periods of the year)	Total traps / ecosystem
PF	2	10	3	60 (2 x 10 x3)
SF-15	2	10	3	60 (2 x10 x 3)
SF-5	2	10	3	60 (2 x10 x 3)
Ag	2	10	3	60 (2 x10 x 3)
Pa	2	10	3	60 (2 x10 x3)
Total points sampled				300 (60 x 5)

PF = Preserved forest; SF-15 = Secondary forest (15 years of regeneration); SF-5 = Secondary forest (5 years of regeneration); Ag = Agriculture (Cocoa); Pa = Pasture.
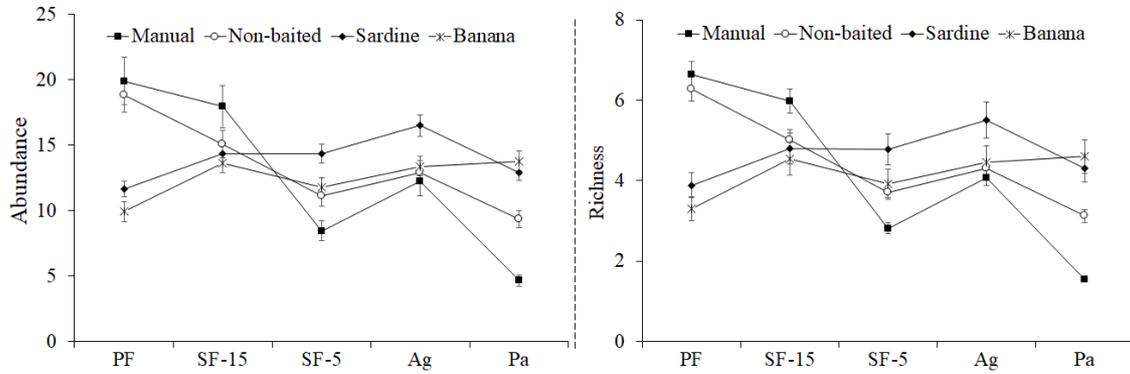
Digital Appendix 3
PERMANOVA results (based on the similarity of Bray-Curtis using 9999 permutations) comparing the composition of ant assemblages between different capture methods within each habitat

Primary Forest, Permanova: F = 110.4, P < 0.001			
	Manual	Sardine	Banana
Manual	-	-	-
Sardine	230.8	-	-
Banana	334.5	100.5	-
Non-baited	222.0	107.4	50.3
Secondary forest (15 years of regeneration), Permanova: F = 27.52, P < 0.001			
	Manual	Sardine	Banana
Manual	-	-	-
Sardine	121.0	-	-
Banana	99.8	45.3	-
Non-baited	36.6	21.0	6.5
Secondary forest (5 years of regeneration), Permanova: F = 45.88, P < 0.01			
	Manual	Sardine	Banana
Manual	-	-	-
Sardine	31.6	-	-
Banana	71.9	23.4	-
Non-baited	91.1	29.7	3.5
Agriculture (Cocoa), Permanova: F = 36.04, P < 0.05			
	Manual	Sardine	Banana
Manual	-	-	-
Sardine	18.1	-	-
Banana	82.5	83.5	-
Non-baited	83.8	86.6	0.5
Pasture, Permanova: F = 33.42, P < 0.05			
	Manual	Sardine	Banana
Manual	-	-	-
Sardine	144.4	-	-
Banana	26.4	15.7	-
Non-baited	324.4	159.4	12.2

Digital Appendix 4
Differences between abundance (A) and species richness (B) of the Ants studied in different habitats, using different collection methods

PF = Preserved forest; SF-15 = Secondary forest (15 years of regeneration); SF-5 = Secondary forest (5 years of regeneration); Ag = Agriculture (Cocoa); Pa = Pasture.

Digital Appendix 5
Non-metric multidimensional scale (NMDS) showing assemblies of ants grouped according to different capture methods (using Bray-Curtis similarity) within each monitored habitat