Posterior mean (SD), 95% CI and prior used of the parameter explaining bonobo nest density μ and the probability of founding nests on a transect ϕ as estimated by model 1 "M1" integrating camera-traps data in the block south of Salonga National Park. Parameter are indexed by method (SCNC: Standing Crop Nest Counts; RECCES: Reconnaissance Walk; CTDS: Camera Trap Distance Sampling), by sub-sector (1: Iyaelima; 2: Lokofa; 3: Monkoto; 4: South-West) and by proximity to a ranger patrol post (yes: patrol post within 15 km; no: patrol post further than 15 km).

Parameter description	Parameter name and indexing	Prior	Mean (sd)	95% CI
Probability of founding bonobos/bonobo signs on transect (by method)	ϕ_{SCNC}	*Beta*(2,2)	0.42 (0.04)	0.35 – 0.49
	ϕ_{CTDS}		0.23 (0.03)	0.17 – 0.29
Varying intercept (by sector and method) of mean density	$\alpha 2_{1,\ SCNC}$	*Normal*(0,0.5)	1.66 (2.02)	-2.24 – 5.68
	$\alpha 2_{1,\ CTDS}$		0.08 (2.01)	-3.69 – 3.95
	$\alpha 2_{2,\ SCNC}$		1.49 (2.05)	-2.58 – 5.35
	$\alpha 2_{2,\ CTDS}$		0.75 (2.04)	-3.08 – 4.49
	$\alpha 2_{3,\ SCNC}$		1.80 (2.05)	-2.14 – 5.77
	$\alpha 2_{3,\ CTDS}$		0.50 (2.04)	-3.43 – 4.31
	$\alpha 2_{4,\ SCNC}$		1.44 (2.03)	-2.55 – 5.36
	$\alpha 2_{4,\ CTDS}$		0.02 (2.03)	-3.87 – 3.99
Varying slope (by method) of forest coverage *F*	$\gamma 1_{SCNC}$		0.12 (0.13)	-0.14 – 0.37
	$\gamma 1_{CTDS}$		0.11 (0.20)	-0.28 – 0.52
Varying slope (by method) of distance to cities *C*	$\gamma 2_{SCNC}$		-0.04 (0.15)	-0.35 – 0.25
	$\gamma 2_{CTDS}$		-0.18 (0.22)	-0.57 – 0.25
Varying slope (by methods) of distance to villages *V*	$\gamma 3_{SCNC}$		-0.01 (0.17)	-0.34 – 0.31
	$\gamma 3_{CTDS}$		0.07 (0.20)	-0.33 – 0.46
Varying slope (by method) of distance to rivers *R*	$\gamma 4_{SCNC}$		-0.06 (0.09)	-0.25 – 0.10
	$\gamma 4_{CTDS}$		-0.08 (0.12)	-0.33 – 0.16
Varying slope (by method) of human signs/ 100 m *H*	$\gamma 5_{SCNC}$		0.00 (0.08)	-0.16 – 0.13
	$\gamma 5_{CTDS}$		-0.14 (0.14)	-0.44 – 0.12
Varying slope (by method) of proportion of bonobo feeding trees *T*	$\gamma 6_{SCNC}$		0.01 (0.09)	-0.16 – 0.20
	$\gamma 6_{CTDS}$		-0.16 (0.14)	-0.43 – 0.13
Varying slope (by method) of proportion of *Marantaceae M*	$\gamma 7_{SCNC}$		0.16 (0.11)	-0.05 – 0.36
	$\gamma 7_{CTDS}$		-0.06 (0.15)	-0.33 – 0.24
Varying slope (by method) of black mangabey density (monkeys/km²) *B*	$\gamma 8_{\ SCNC}$		-0.02 (0.10)	-0.22 – 0.16
	$\gamma 8_{CTDS}$		0.04 (0.17)	-0.33 – 0.36
Varying intercept (by method) of proximity to patrol post *K*	$\gamma 9_{SCNC,\ no}$	*Normal*(0,5)	3.56 (2.02)	-0.45 – 7.55
	$\gamma 9_{SCNC,\ yes}$		0.84 (2.01)	-3.11 – 4.75
	$\gamma 9_{CTDS,\ no}$		3.47 (2.02)	-0.49 – 7.44
	$\gamma 9_{CTDS,\ yes}$		0.63 (2.00)	-3.23 – 4.37
Scale parameter (by method)	θ_{SCNC}	*Gamma*(0.3,0.3)	0.01 (0.00)	0.01 - 0.01
	θ_{CTDS}		0.22 (0.05)	0.14 - 0.30