

Supporting Information. Odonne, G., M. van den Bel, M. Burst, O. Brunaux, M. Bruno, E. Dambrine, D. Davy, M. Desprez, J. Engel, B. Ferry, V. Freycon, P. Grenand, S. Jérémie, M. Mestre, J.F. Molino, P. Petronelli, D. Sabatier, and B Hérault. 2019. Long-term influence of early human occupations on current forests of the Guiana Shield. *Ecology*.

Appendix S5.

Indicator Species of anthropized plots (A) and non-anthropized plots (NA)

The indicator species analysis led to the identification of 9 indicator species (*i.e.* species that were both more exclusive and more abundant) for As, and 6 species only for NAs. Among the species associated with As were *Inga alba*, 2 species of *Pourouma*, and 2 Arecaceae.

Oenocarpus bacaba and *Astrocaryum sciophilum*, both palms, were especially present on the plot MCwila. *Pourouma minor*, a common successional species, was found mainly in plots Aca and FC. Concerning indicator species for NAs, two Lecythidaceae species stands out among which *Lecythis persistens* known to be locally abundant, *e.g.* in the Paracou sites Par6 and Par18. Two other species associated with NAs (*Mouriri crassifolia* and *Simaba cedron*) were less abundant, but highly exclusive.

Table S1. Indicator species in either Anthropized Plot (A) or Non-anthropized Plot (NA), Families, Botanical names, Strength of the Association, P values, Uses and Parts used.

Family	Species	Indicator	Strength	Pvalue	Uses*	Parts**
Arecaceae	<i>Astrocaryum sciophilum</i>	A	0.908	0.030	C/H/A	F/L
Fabaceae	<i>Batesia floribunda</i>	A	0.775	0.045	A	W/F
Euphorbiaceae	<i>Conceveiba guianensis</i>	A	0.868	0.010	F/H/A	W/F
Fabaceae	<i>Inga alba</i>	A	0.857	0.015	F/H/M/A	B/W/F/E
Arecaceae	<i>Oenocarpus bacaba</i>	A	0.872	0.020	C/H/M/A	W/F/L
Urticaceae	<i>Pourouma melinonii</i>	A	0.819	0.040	F/H/A	W/F
Urticaceae	<i>Pourouma minor</i>	A	0.769	0.025	F/A	W
Burseraceae	<i>Protium trifoliolatum</i>	A	0.962	0.025	F/H/M/A	W/F/E
Moraceae	<i>Pseudolmedia laevis</i>	A	0.894	0.020	F/H/A	W/F
Meliaceae	<i>Carapa surinamensis</i>	NA	0.732	0.045	M/A	B/W/F
Lecythidaceae	<i>Couratari multiflora</i>	NA	1.000	0.010	M/A	B
Lecythidaceae	<i>Gustavia hexapetala</i>	NA	0.740	0.030	C/A	W
Lecythidaceae	<i>Lecythis persistens</i>	NA	0.729	0.015	C/M/A	B/W
Melastomataceae	<i>Mouriri crassifolia</i>	NA	1.000	0.020	C/H/A	W/F

Simaroubaceae	<i>Simaba cedron</i>	NA	1.000	0.025	M	B
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* C: Construction; F: Firewood; H: Human food; M: Medicinal; A: Arts and craft

** B: Bark; W: Wood/stem; F: Fruits/seeds; L: Leaves/flowers; E: Exsudates; U: Undergr. org