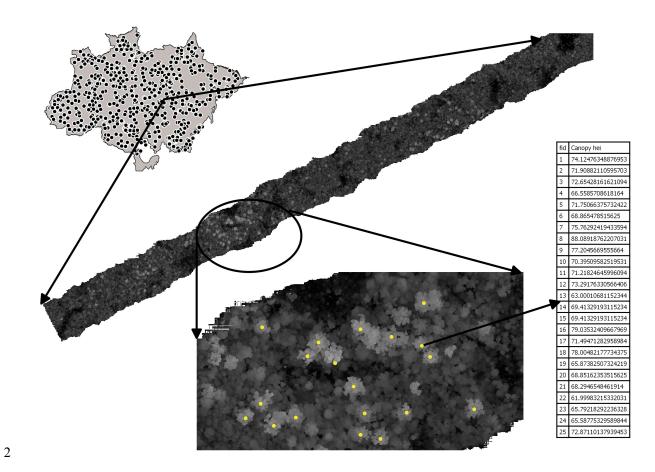
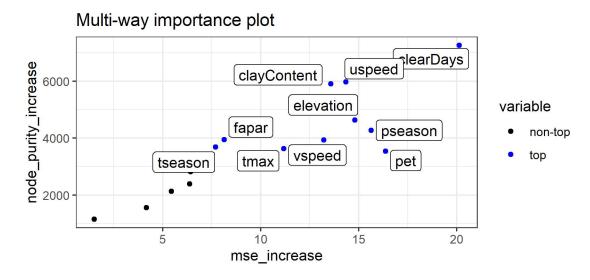
Supporting Figures

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- 3 Supporting Figure 1. The uppermost vegetation heights were employed to compute a canopy
- 4 height model CHM for each transects. Based on a local maximm filter, the tallest trees of each
- 5 transects was located, and the tallest individual was identified and isolated to represent each
- 6 transect.

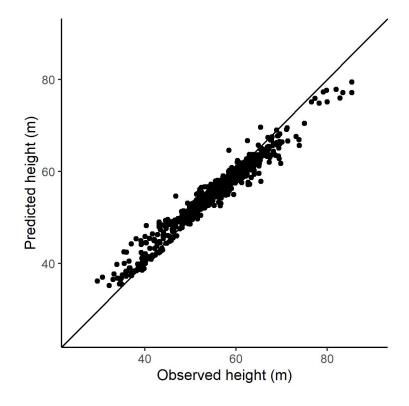


- 8 Supporting Figure 2. Variable importance considering the mean increase in accuracy
- 9 (mse_increase) and the mean increase in node purity (node_purity_increase).

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Supporting Figure 3. Observed versus predicted maximum height by the Random Forest model.

Supporting Table

Supporting Table 1. Variable importance results for the Random Forest model adjusted

considering all the transects, and removing transects located in secondary and degraded forests

(i.e. intact forest).

Layer	Importance including all	Importance excluding
	transects	secondary and degraded
	(increase accuracy)	forest
		(increase accuracy)
clearDays	25.5	22.5
clayContent	23.4	21.8
topography	23.3	20.9
pannual	22.4	21.4
pseason	21.3	19.3
tseason	21.3	19.4
uspeed	21.1	18.4
pet	20.2	17.4
fapar	20.0	17.3
pwettest	19.9	18.3
tmax	19.8	18.9
vspeed	18.1	18.4
lightning	18.0	17.2
days20	16.4	18.9
tannual	15.6	15.3
waterContent	9.7	9.6