**Title.** Land-use history shapes tree aboveground biomass patterns in tropical montane cloud forest landscapes

**Authors**

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**Keywords**

**Abstract**

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**Methods**

Study Area

Data Collection and Processing

Forest Inventory Sites

Forest Structural Attributes and Aboveground Biomass Estimation

Tree Diversity

Environmental and Topographic Variables

Land-use Variables

Data Selection and Quality Control

Statistical Analysis

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Tree AGB and Diversity in TMCF

Patterns of Tree AGB and Diversity Across Land-use and Environmental Gradients

**Discussion**

**Conclusions**

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Table 2. Allometric equations

Table 3. Structural attributes, tree AGB and diversity

Table 4. Multiple regression model-AGB

Table 5. Multiple regression model- diversity

Table 6. GAM

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Figure 2. Structural attributes and tree size contribution to AGB and stem density.

Figure 3. Relationship between forest structure and diversity

Figure 4. Relationship between AGB and landscape composition (mosaic), and diversity and landscape composition (mosaic)

Figure 5. GAM result or surface plot

**Supporting Information**

Non-hierarchical cluster analysis – plots categories in three ‘successional stages’

PCA of environmental variables