



Eric Marcon is currently a senior researcher at UMR AMAP – AgroParisTech, Montpellier, France. Working on biodiversity measurement, he is interested in developing rigorous and useful diversity metrics using an interdisciplinary approach combining modelling, statistical physics and statistics.

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<https://umontpellier-fr.zoom.us/j/93312379318>
Salle 201, Bâtiment PS2, CIRAD-UMR AMAP,

How Many Tree Species Are There in the Rainforest of French Guiana?

presented by

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ABSTRACT

GuyaDiv is a network of forest plots installed over the whole territory of French Guiana, where trees over 10 cm DBH are identified. We use its information (1507 species censused in 68 one-hectare plots) to estimate the exponent of the species-area relationship, assuming Arrhenius's power law. We can then extrapolate the number of species from a local, wide inventory (62.5 ha in Paracou research station). Then, the number of tree species is estimated over the territory.

KEY WORDS

Biodiversity, Tropical Forest, Self-Similarity, French Guiana

Invited and animated by:

Dr. Zhun MAO / Jean-François MOLINO (UMR AMAP)

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Research results

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