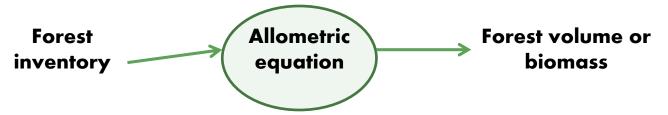
Ongoing work on the allometric equations - UN-REDD programme

Importance of Allometric equation (AE):

(N) +++ (L(D)++

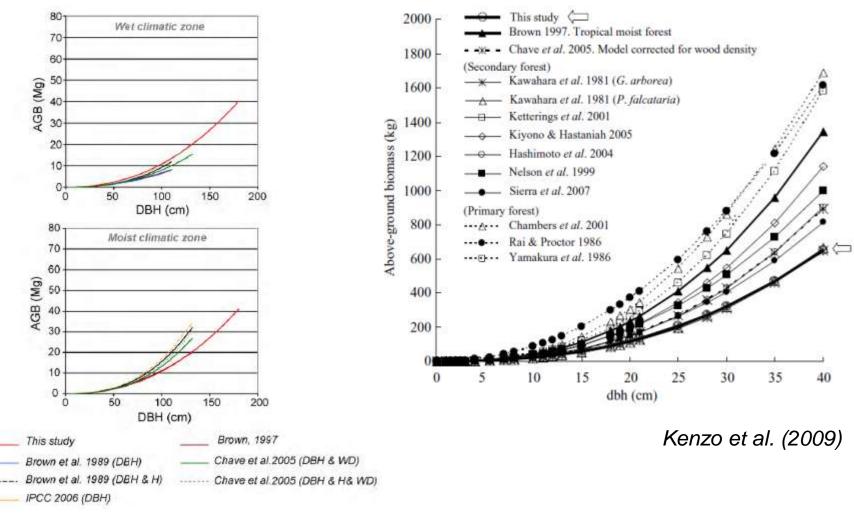
- Allometry = statistical relation between individual tree measurements;
- This relation is the results of : Genetics + Environment + History;
- Allometric equations relate tree volume or biomass to easy-to-measure tree characteristics (D, H, ...) with statistically determined parameters;
- Used to calculate Activity Data (AD) & Emission Factor (EF) in IPCC guidelines (IPCC, 2003): CO2 *Emissions* = $AD \cdot EF$



Uncertainties due to model selection:

20 to 40% uncertainty into a live-tree carbon estimate, possibly making this form of error the largest source of uncertainty in estimation of live-tree carbon stocks. The effect of model selection could be even greater if models are applied beyond the height and DBH ranges for which they were developed (Melson, S. L et al. 2011).

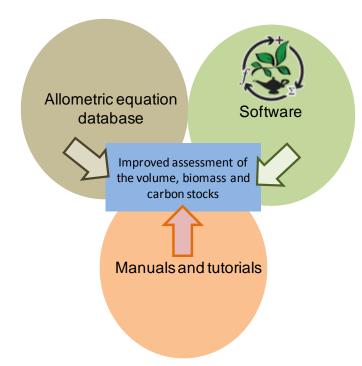
Impact of allometric equations on carbon stocks



Henry et al. (2010)

[GlobAllomeTree] -> Webplateform to improve assessment of volume biomass and carbon stocks

3



- Data harmonization to facilitate their use, allow comparison of the results;
- Identification of tree compartments for each equation (stem, root, branch, foliage, etc..).



Statistical information relative to all the equations (correlation coefficient , sample size, confidence intervals etc.);

Geographical location of the allometric equations with their respective climatic data;

Transparent access to the original references

Free access to the geo-referenced allometric equations for your project;

Individual equation or group of equation in xls or CSV.

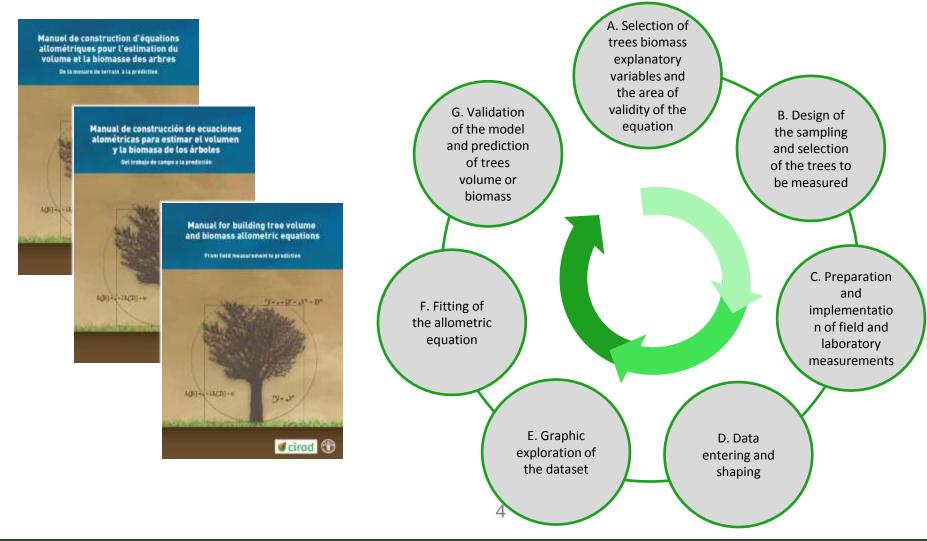


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[GlobAllomeTree] -> Manual for building tree volume and biomass allometric equations, form field work to prediction

P Designed for students, researchers and engineers who wish to acquire the knowledge and methodology to establish accurate allometric equations;

 \mathbf{P} Exhaustive approach from the field work to the prediction following seven steps.



Training and daily support of national experts to improve the development of new models at country scale





CD containing training materials + exercises + results



Report on AE development and guidelines for destructive measurement



Tree allometric equation

Part A - Introduction

and Background of

development for

Viet Nam

the Study

October 2012 Manual Viet Net

144 FILL PRINT

estimation of forest above-ground biamets m Guidelines on Destructive Measurement for Forest Above Ground Biomass Estimation For Technical Staff Use on FDT Recontanyot Leasensy Mease Viel New

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Contacts & documentation

Contact: Matieu.henry@fao.org

Manual on building tree allometric equations: http://www.fao.org/forestry/fma/80797/en/

Progress of UN-REDD programme in partner and pilot countries http://www.un-redd.org/

Country progress: e.g. Vietnam http://www.vietnam-redd.org/