What evaluation across scale means ?

Remote sensing product

GPP: -15%

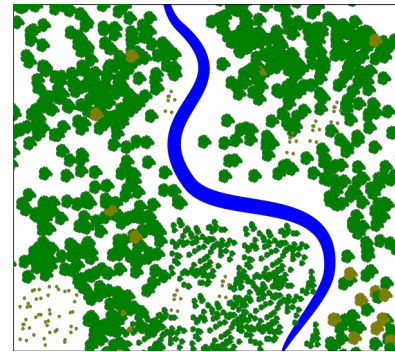| PFT 13 | PFT 22 |
PFT 9	
PFT 10	
PFT 1	
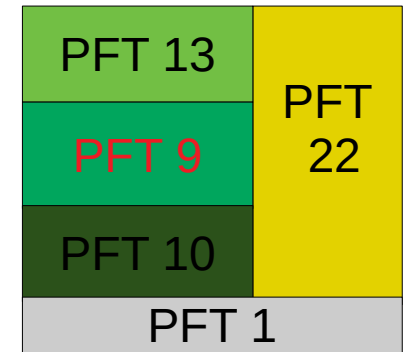
50-100 Km²

Regional ?

- Land cover
- Forest cover
- Species cover
- Vegetmax

What evaluation across scale means ?
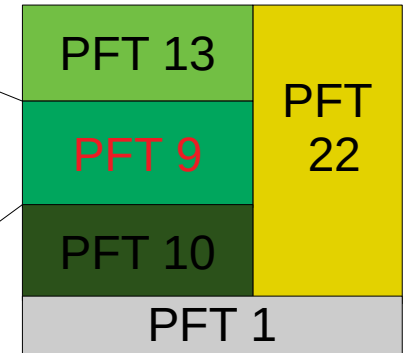
NFI based product

Remote sensing product

GPP: -15%

1-10 Km²

50-100 Km²

Landscape ?

Regional ?

- Residence time
- Forest management
- Age Class (new PFT)
- Mortality
- Recruitment

- Land cover
- Forest cover
- Species cover
- Vegetmax

What evaluation across scale means ?
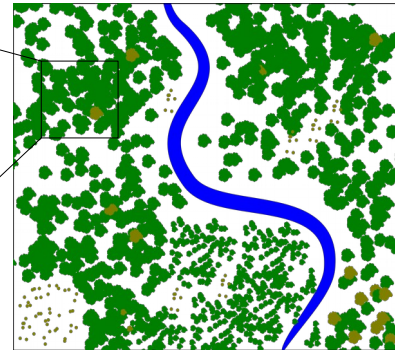
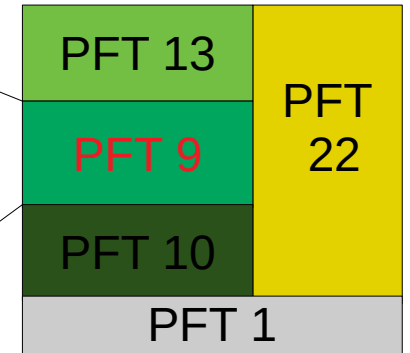Flux tower measurement

NFI based product

Remote sensing product

GPP: -15%

25-100 m^2

1-10 Km^2

PFT 13

PFT 9

PFT 10

PFT 1

PFT 22

50-100 Km^2

Stand **?**

Landscape **?**

Regional **?**

Tree competition for :
- Light
- Nitrogen
- Water

- Residence time
- Forest management
- Age Class (new PFT)
- Mortality
- Recruitment

- Land cover
- Forest cover
- Species cover
- Vegetmax

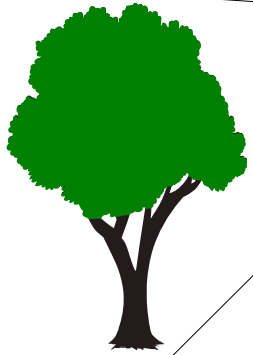# What evaluation across scale means ?

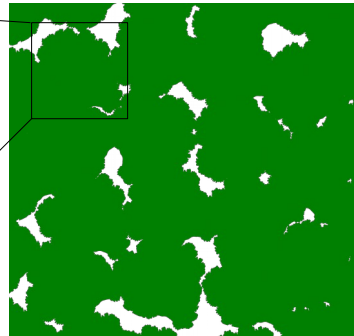Licor measurement   Flux tower measurement   NFI based product   Remote sensing product
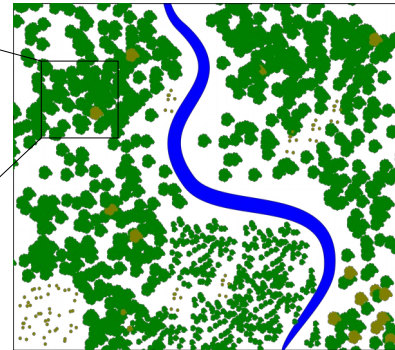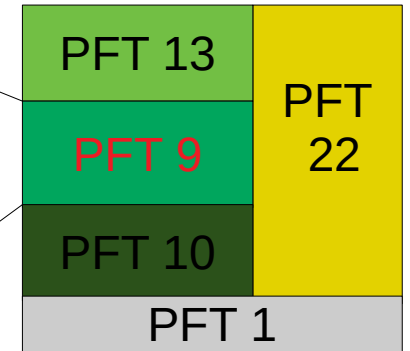
GPP: -15%

25-100 m^2 1-10 Km^2 50-100 Km^2

Tree ?   Stand ?   Landscape ?   Regional ?

- Farqhar model : -20%   Tree competition for :   - Residence time   - Land cover
- Leaf characteristic   - Light   - Forest management   - Forest cover
- Stomatal conductance   - Nitrogen   - Age Class (new PFT)   - Species cover
model   - Water   - Mortality   - Vegetmax
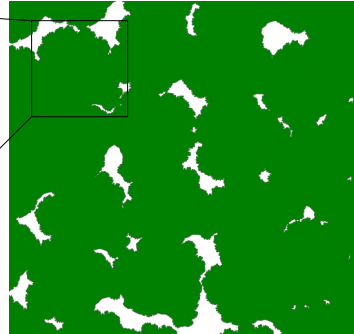- Pipe model   - Recruitment

This concept can be adapted to different scale

Licor XXXX measurement

Flux tower measurement
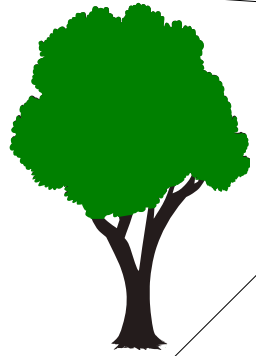
Processes scale

Spatial scale

Tree ?

25-100 m^2

Stand ?

- Farqhar model : -20%
- Leaf characteristic
- Stomatal conductance model
- Pipe model

Tree competition for :
- Light
- Nitrogen
- Water

A sequential evaluation from GPP to rotation length