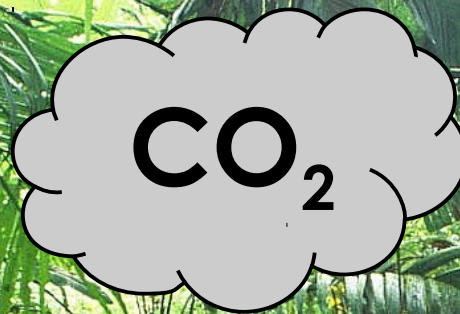


A lush tropical forest scene with various green plants, including palm trees and broad-leafed species. Sunlight filters through the dense canopy, creating a dappled light effect. A semi-transparent black box with a thin white border is centered in the upper half of the image, containing text.

# **Tropical forests are a net carbon source based on aboveground measurements of gain and loss**

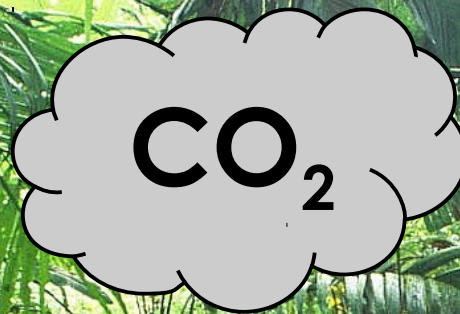
A. Baccini et al. *Science*





**Biomasse**





**Biomasse**

**Source ou puits ?**



**CO<sub>2</sub>**  
800 GtC

110  
GtC.an<sup>-1</sup>

110  
GtC.an<sup>-1</sup>

**Biomasse**  
600 GtC

**Équilibre vs Residual Land Sink**

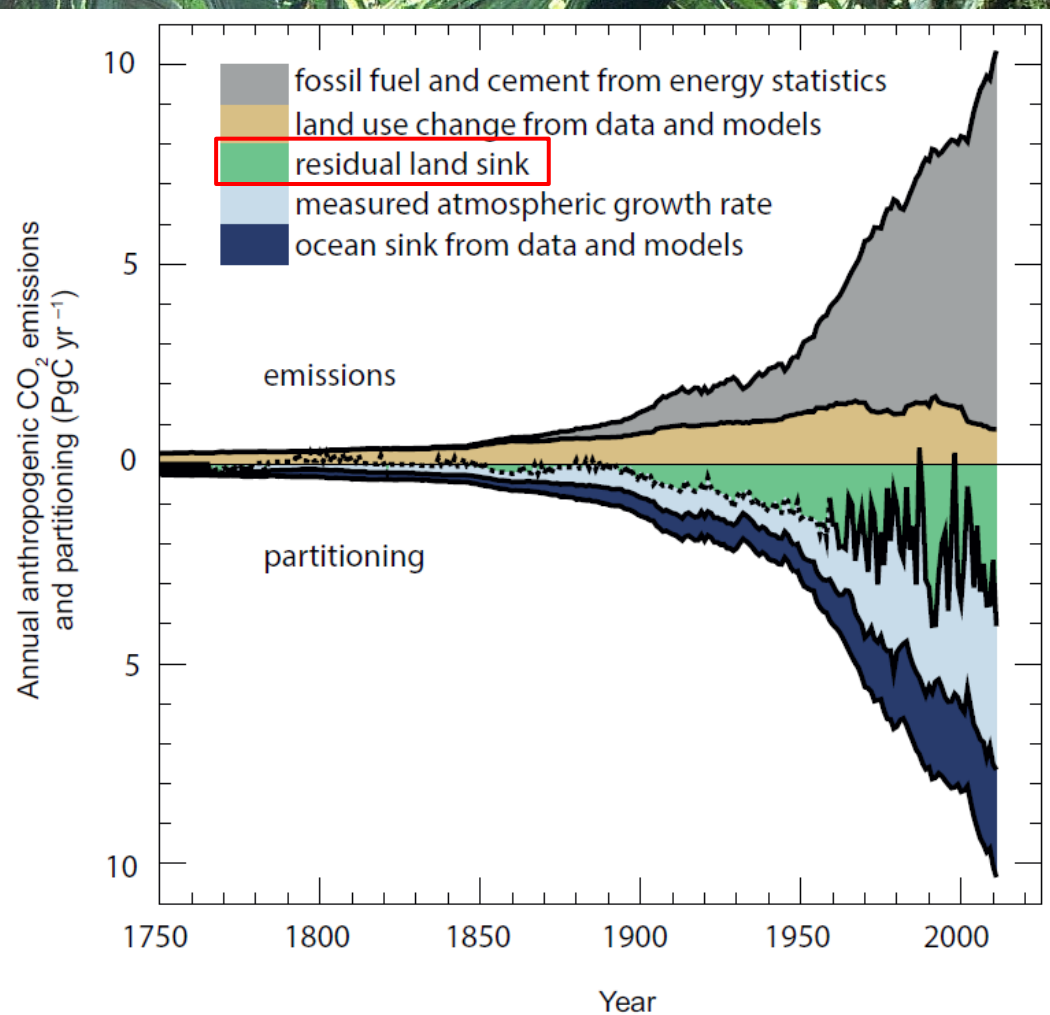


**CO<sub>2</sub>**  
800 GtC

110 + 2  
GtC.an<sup>-1</sup>

110 + 1  
GtC.an<sup>-1</sup>

**Biomasse**  
600 GtC



**Équilibre vs Residual Land Sink**

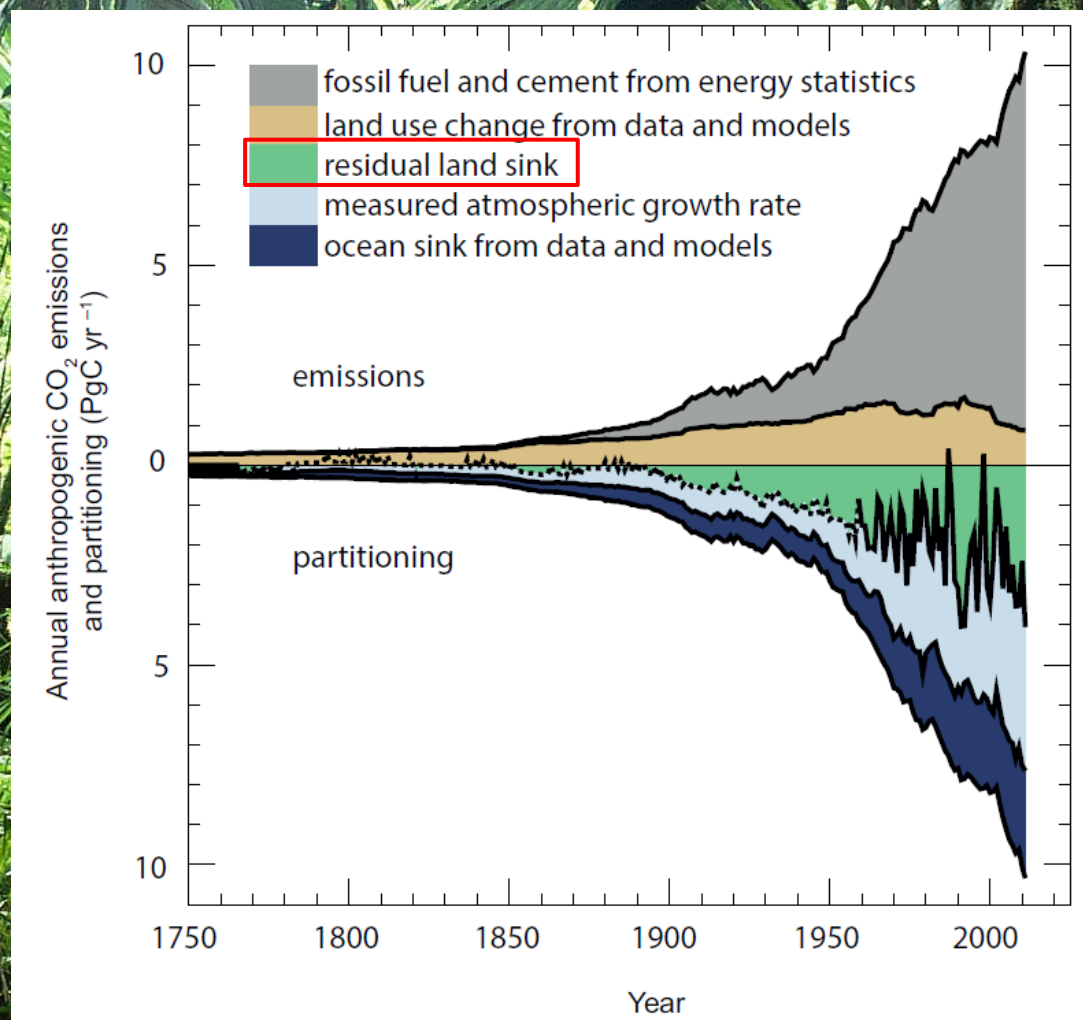


**CO<sub>2</sub>**  
800 GtC

110 + 2  
GtC.an<sup>-1</sup>

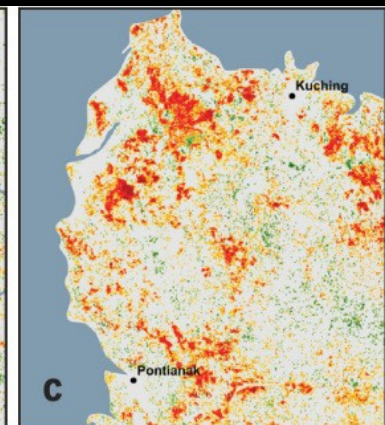
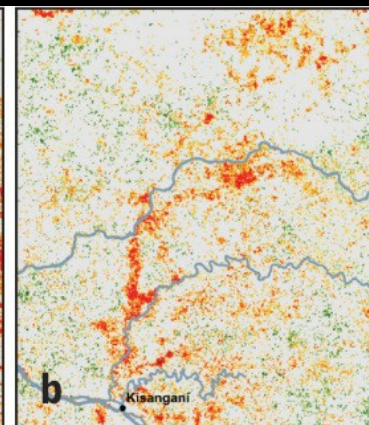
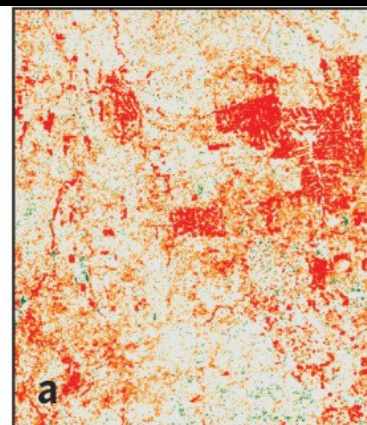
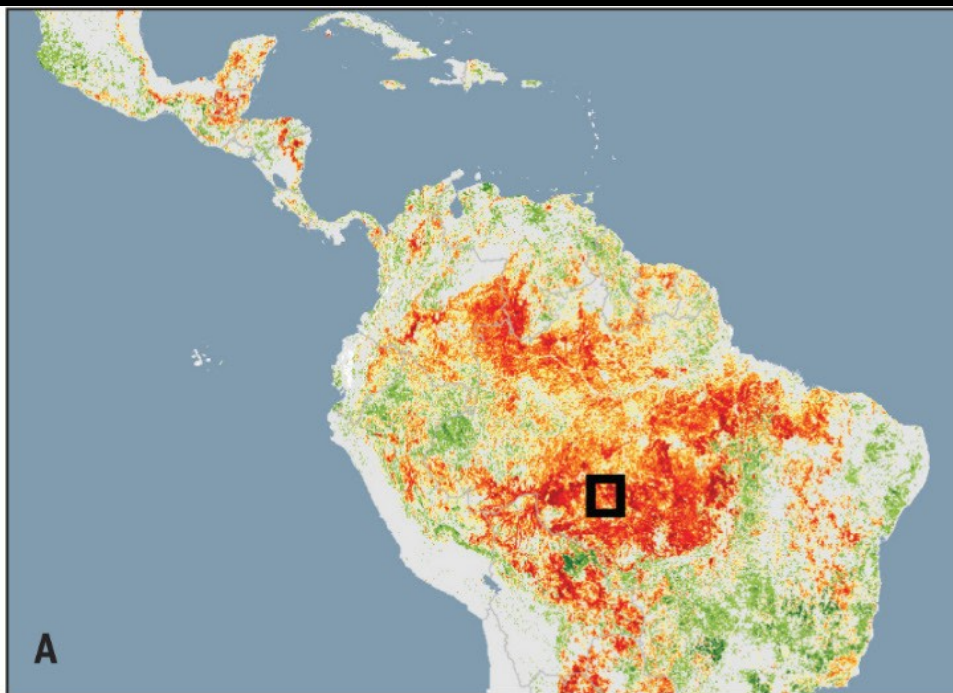
110 + 1  
GtC.an<sup>-1</sup>

**Biomasse**  
600 GtC



**Qu'en est-il pour la zone intertropicale ?**





0 50 100 km

### Aboveground Carbon Density Change

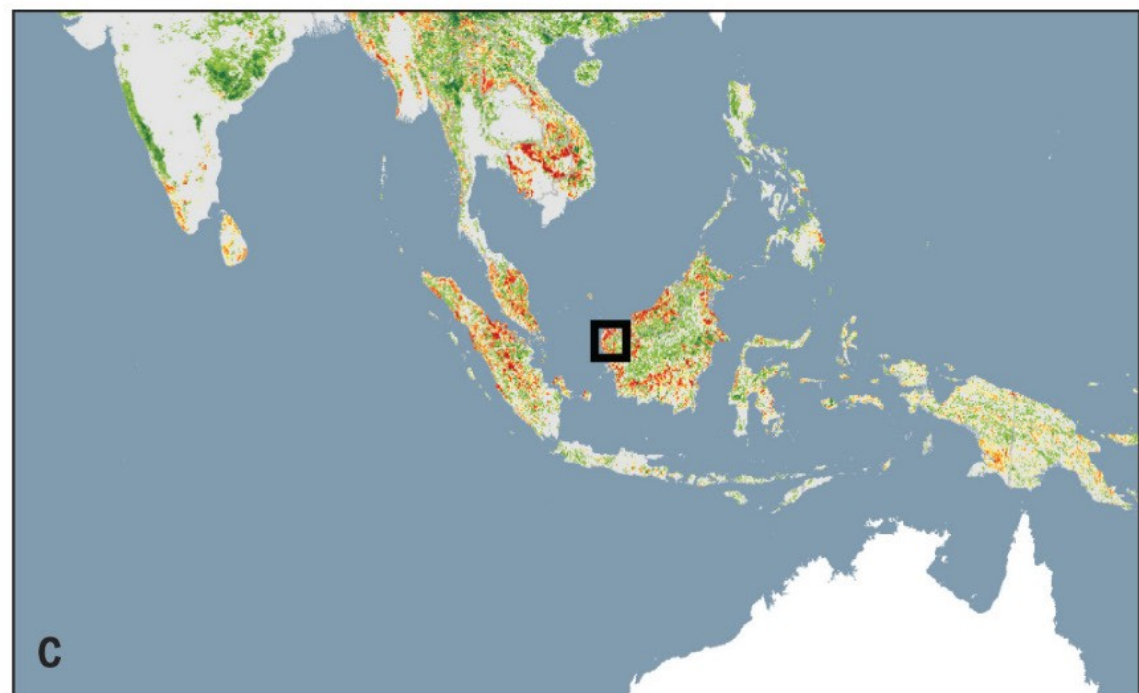
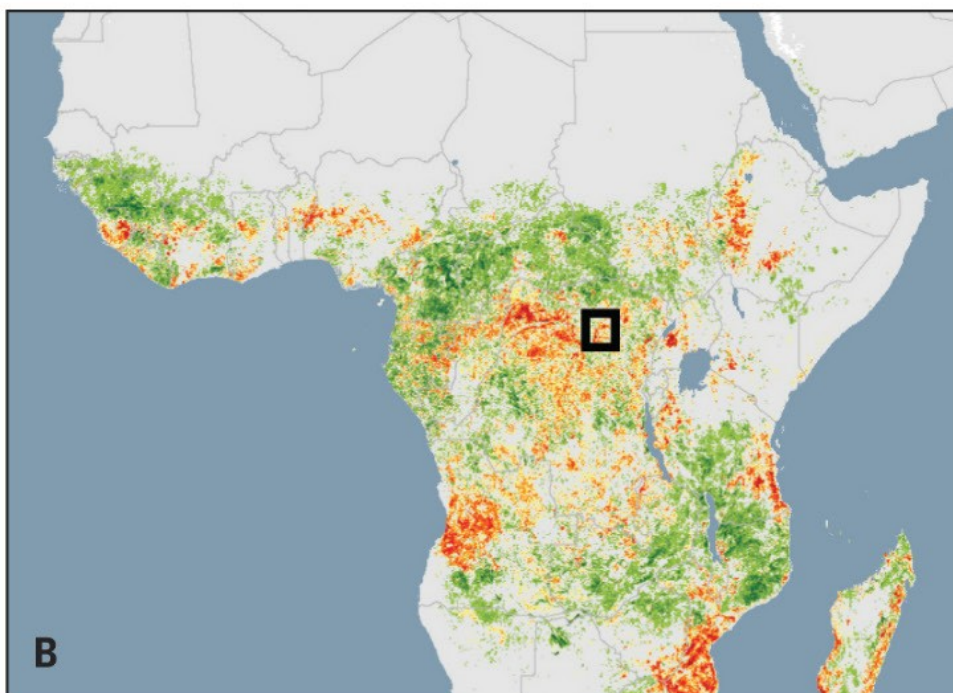
<-14 -5 0 5 >23 (MgC ha<sup>-1</sup>y<sup>-1</sup>)



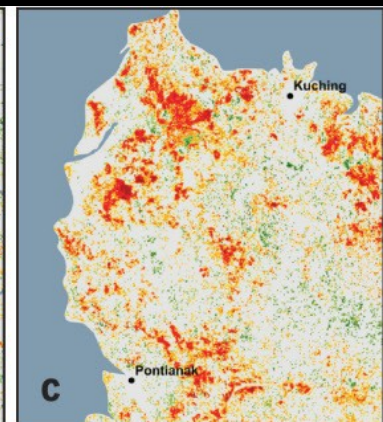
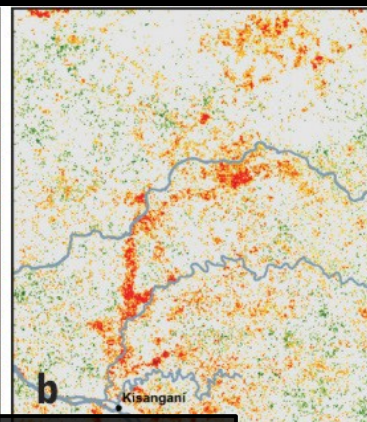
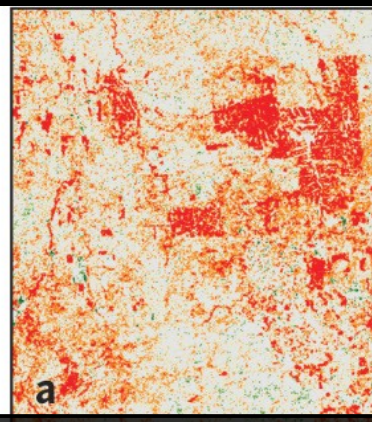
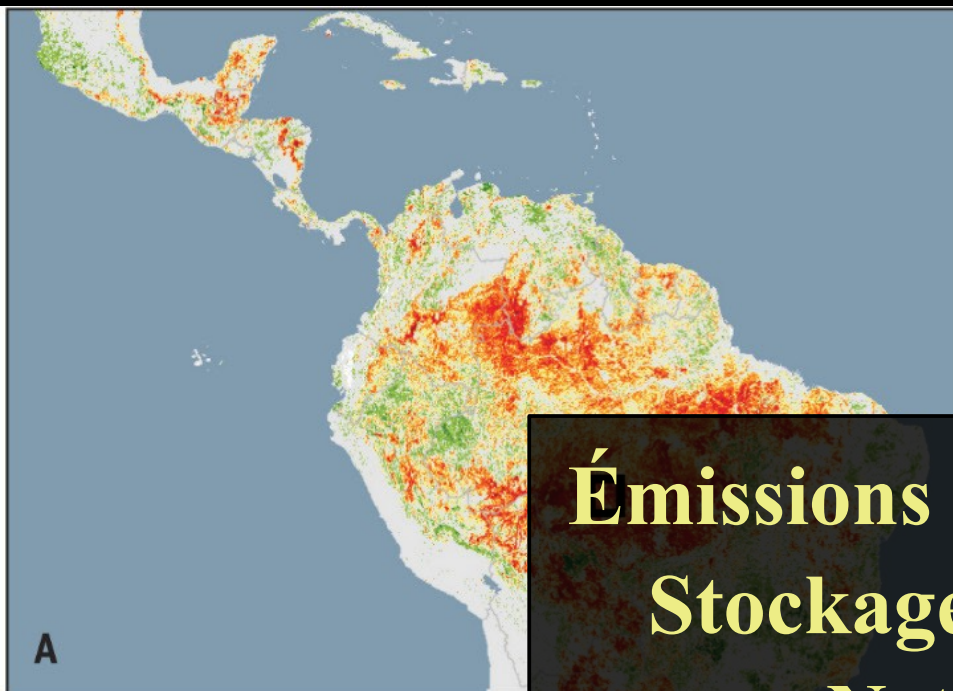
<-150 -50 0 50 >250 (MgC ha<sup>-1</sup>)

Gains

Losses



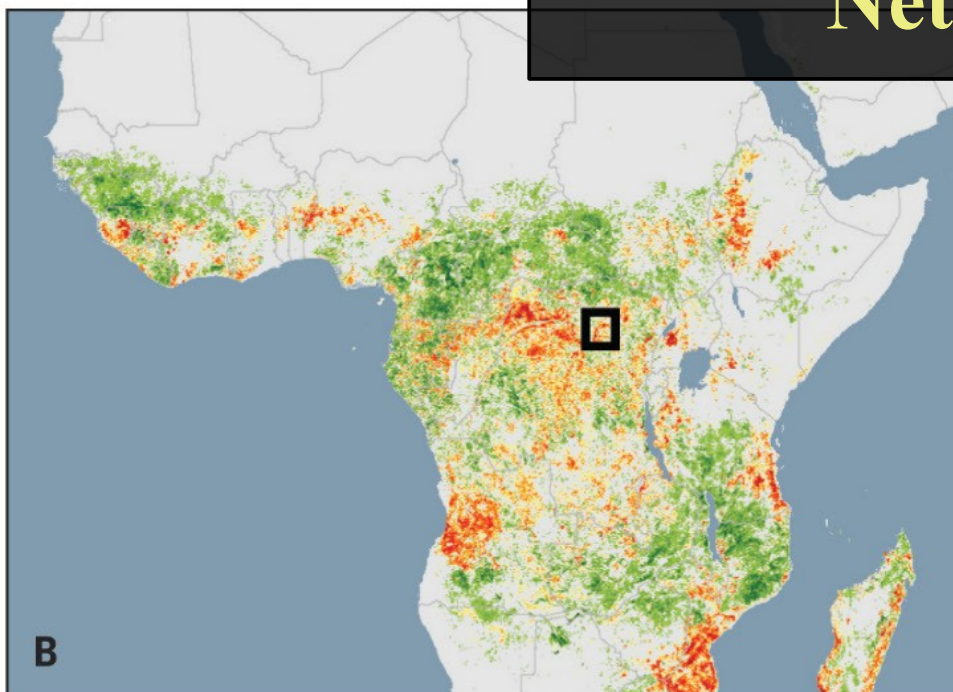




0 50 100 km

**Émissions : + 862 MtC.an<sup>-1</sup>**  
**Stockage : - 437 MtC.an<sup>-1</sup>**  
**Net : + 425 MtC.an<sup>-1</sup>**

**Density Change**  
 5 >23 (MgC ha<sup>-1</sup>y<sup>-1</sup>)  
 50 >250 (MgC ha<sup>-1</sup>)  
 Losses







**Déforestation : 31 %**



**Dégradation : 69 %**





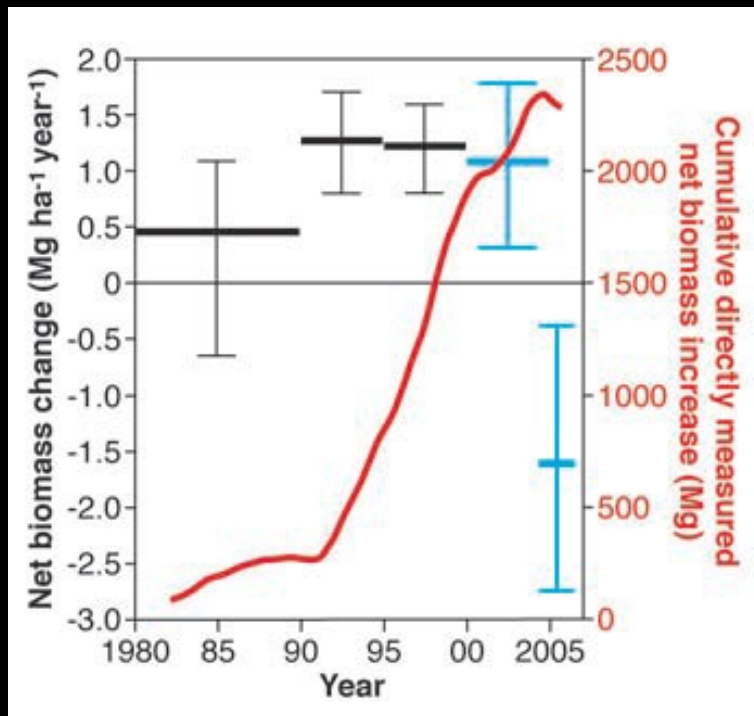
**Déforestation : 31 %**



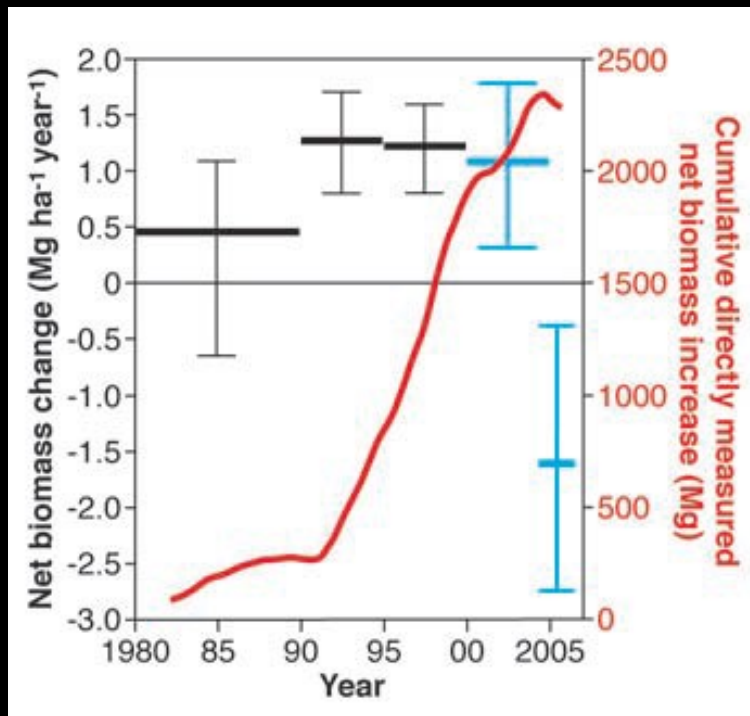
**Dégradation : 69 %**

**Anthropique ou  
« naturelle » ?**









b) Évolution des précipitations moyennes (entre 1986-2005 et 2081-2100)

