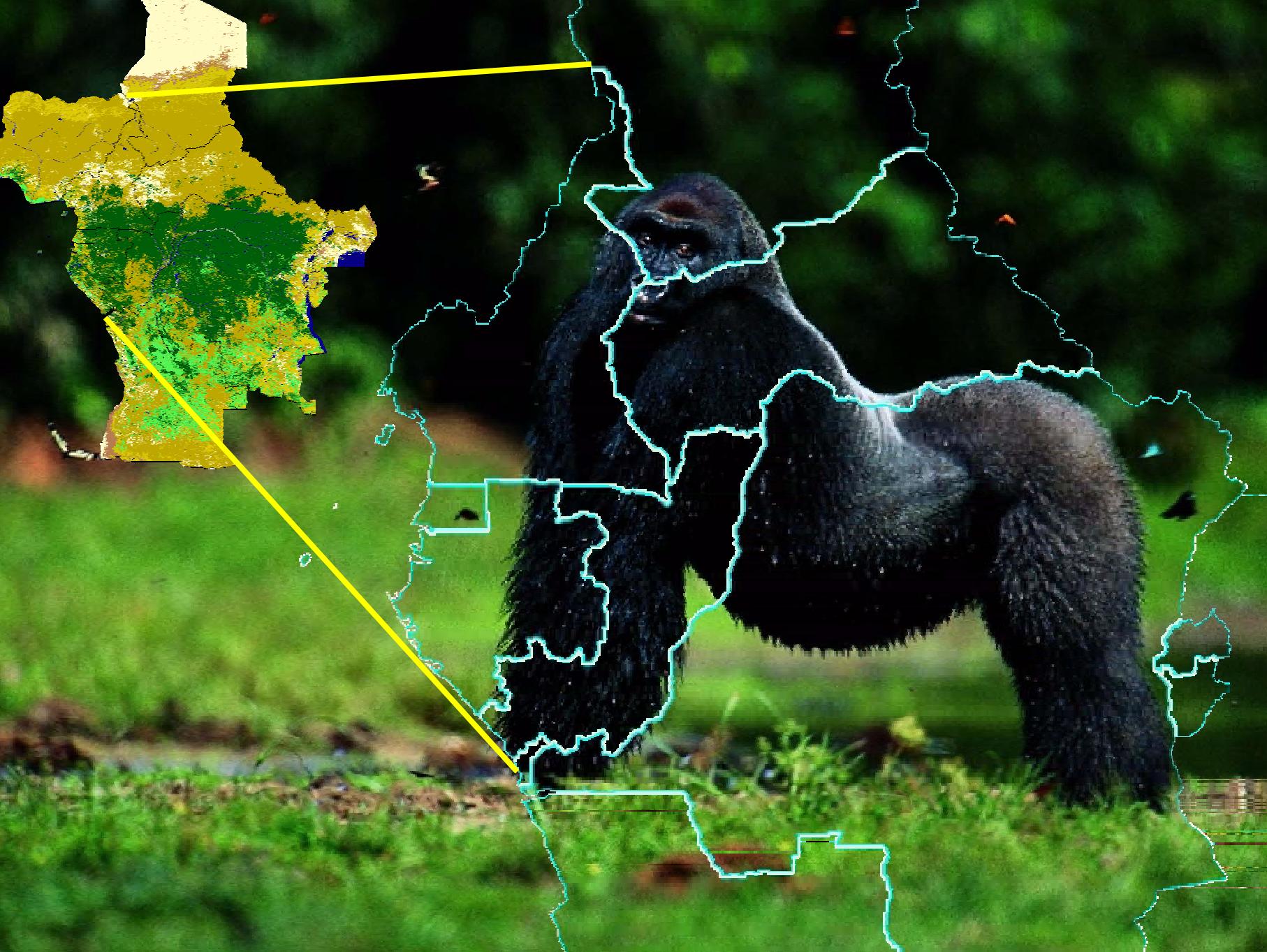
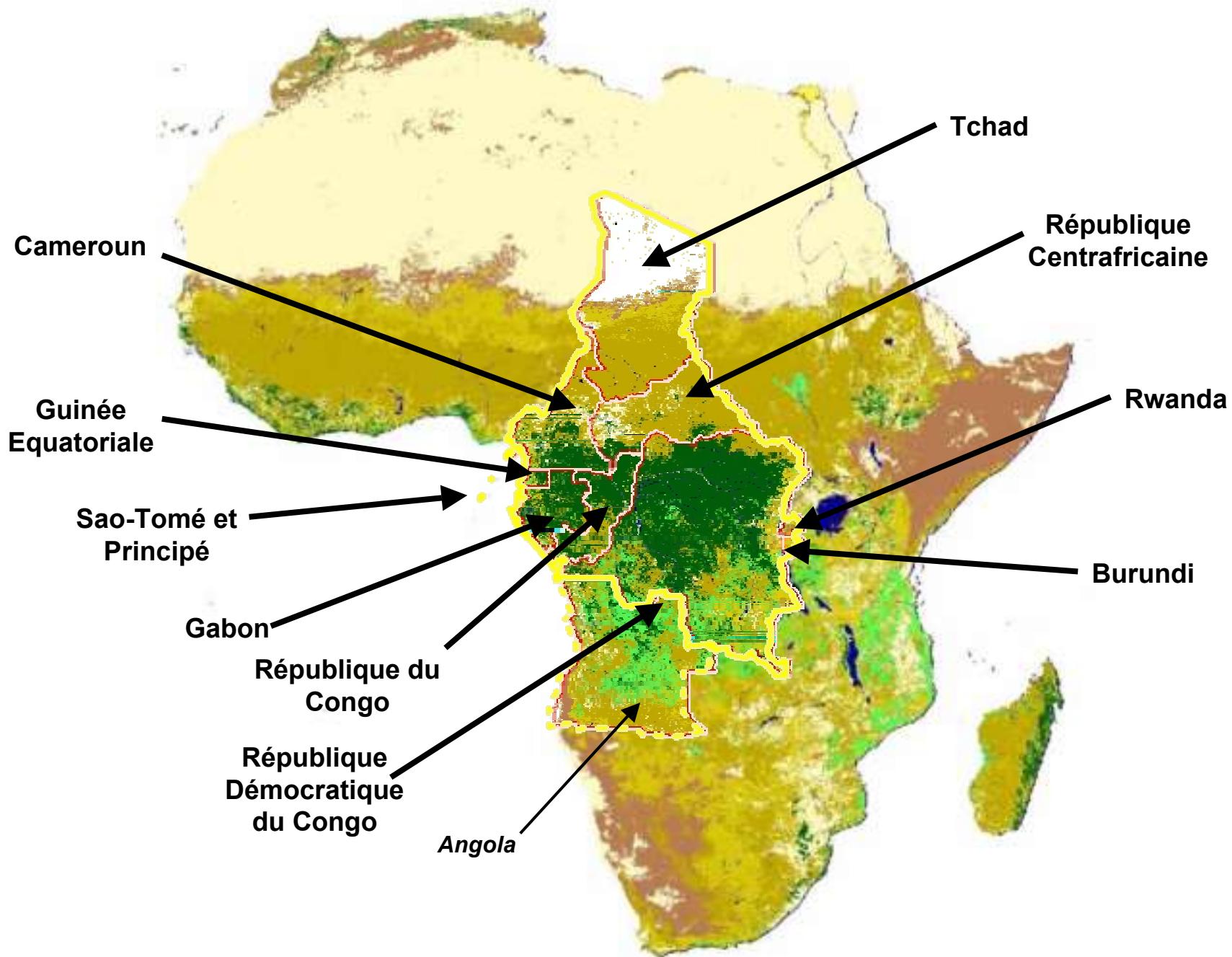


The context of REDD in Central Africa



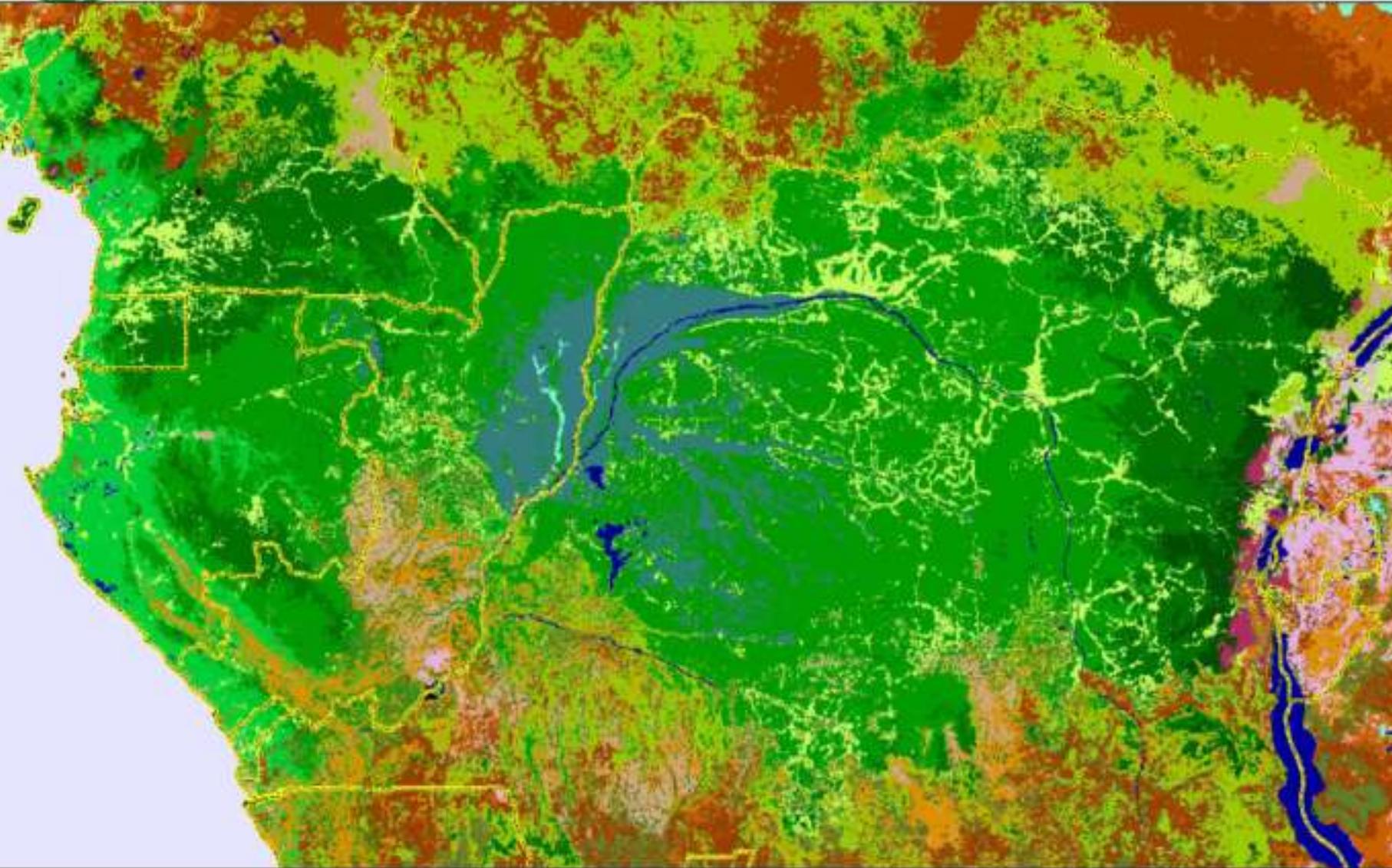
- What future for the Congo Basin?







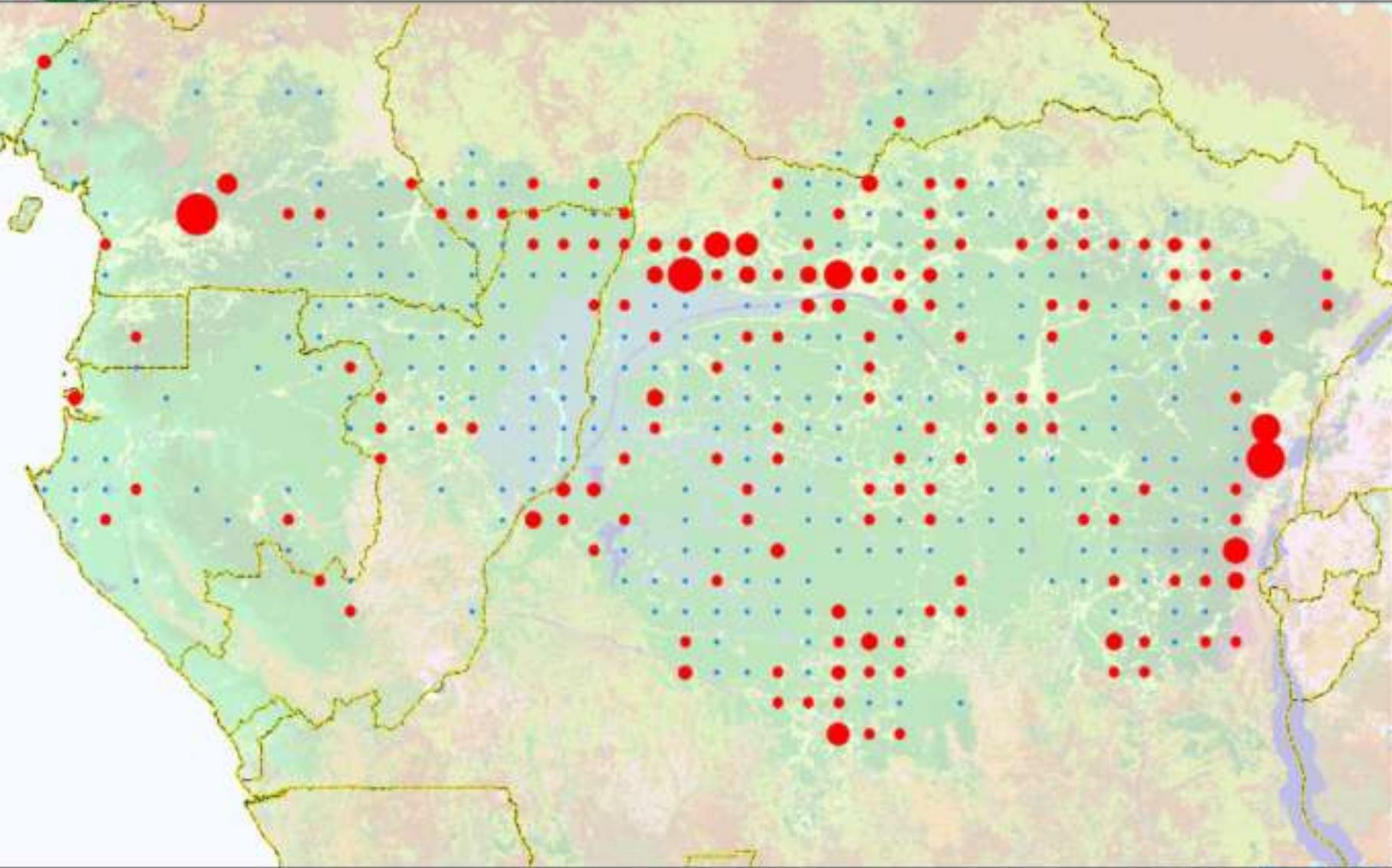
Forests of Central Africa



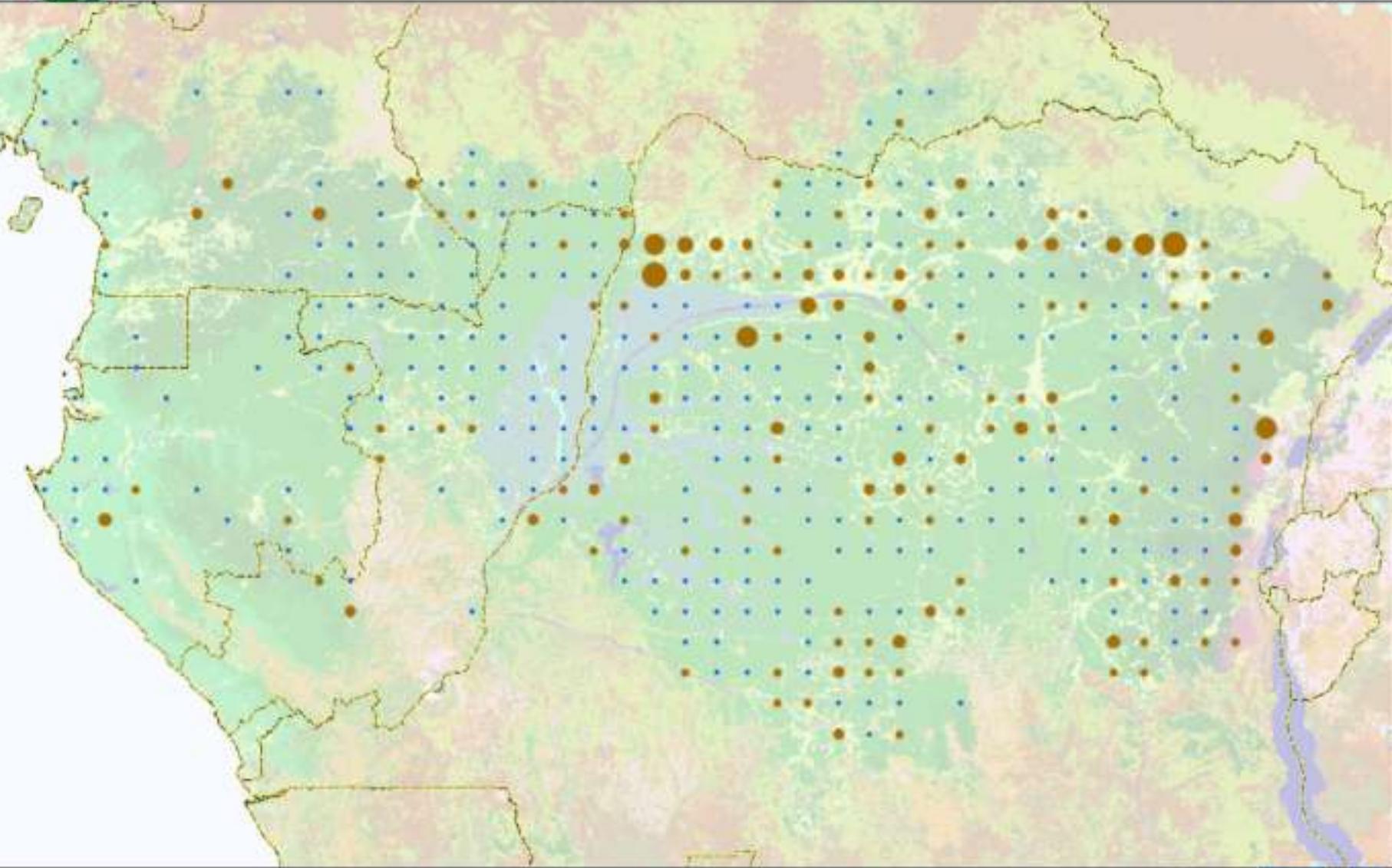
227.61 MILLIONS ha (FAO, 2005)



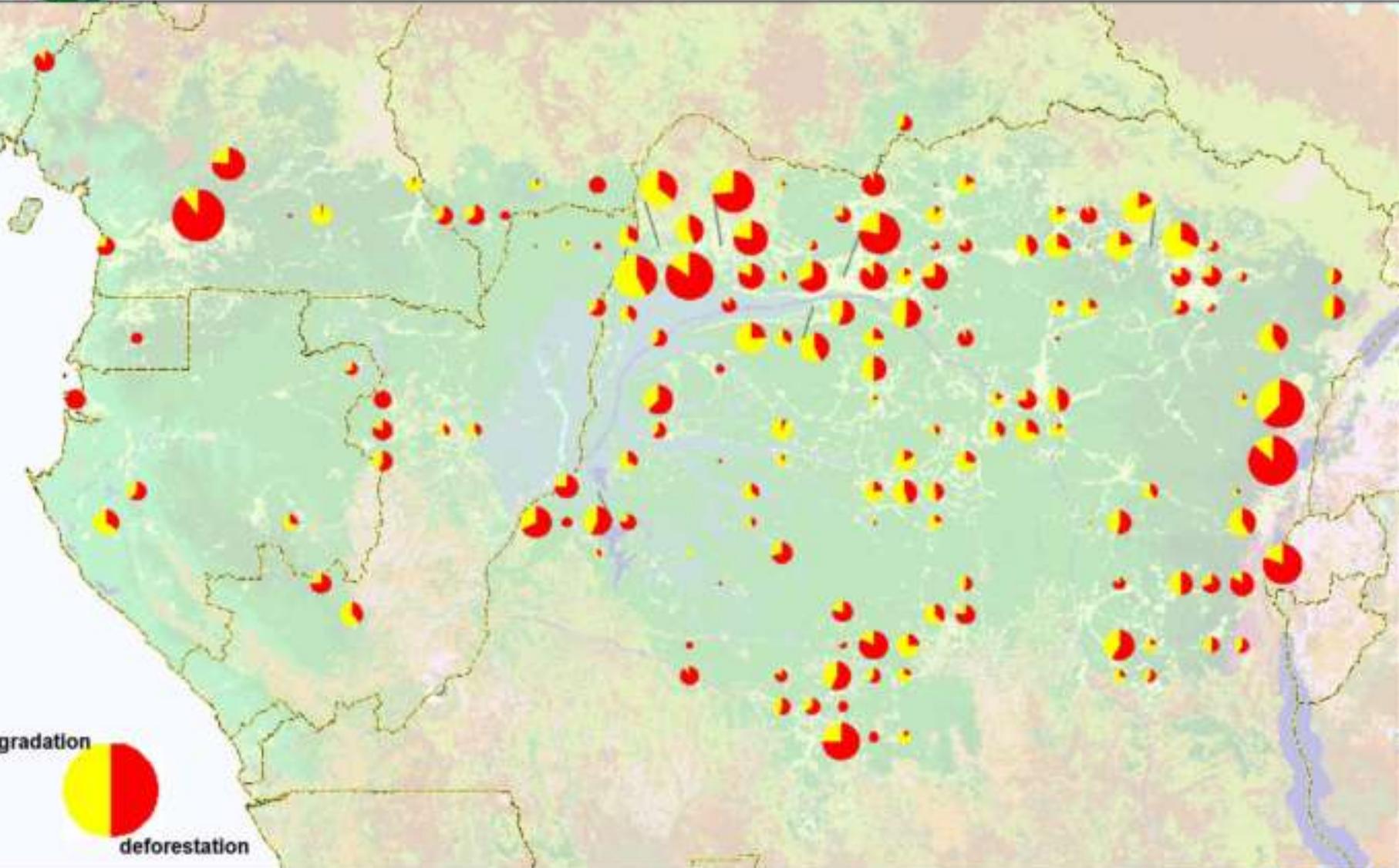
Deforestation



Degradation



Deforestation vs degradation



National estimates

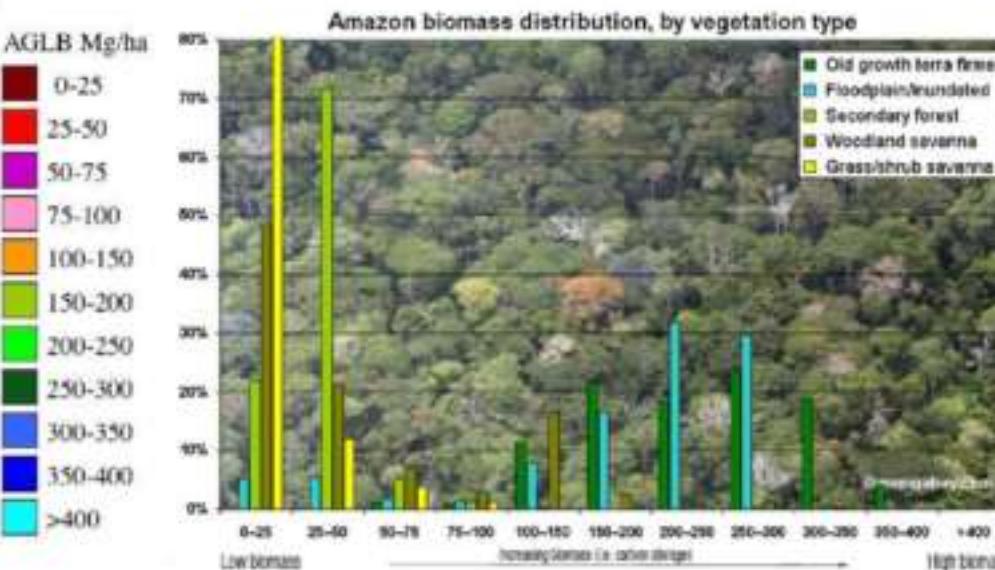
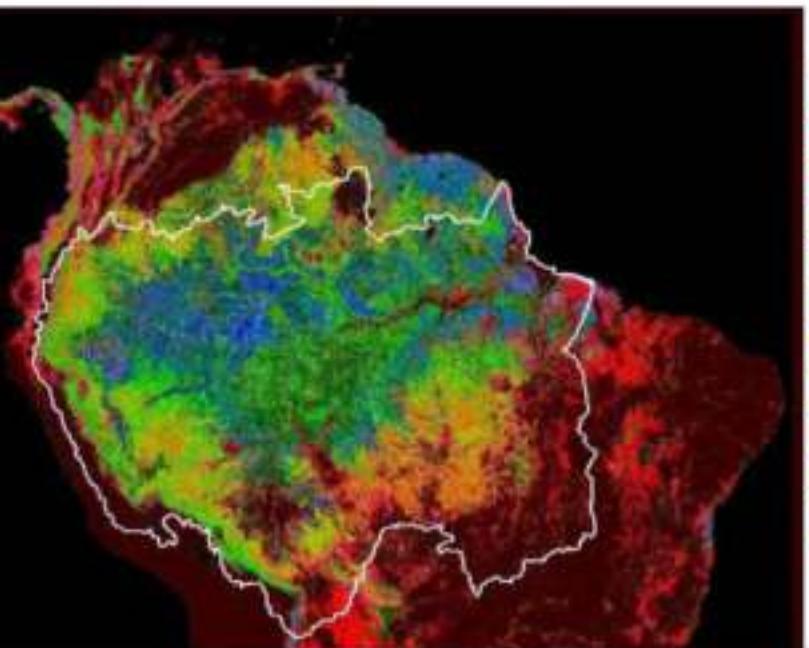
	Cameroon *	CAR	D.R. Congo	Equat. Guinea	Congo	Gabon *	Central Africa
Gross Deforestation	-0,28%	-0,15%	-0,33%	-	-0,12%	-0,16%	-0,27%
Net Deforestation	-0,19%	-0,07%	-0,26%	-	-0,03%	-0,12%	-0,19%
Net Degradation	-0,02%	-0,02%	-0,15%	-	-0,01%	-0,09%	-0,10%
FAO Deforestation	-0,90%	-0,10%	-0,40%	-0,60%	-0,10%	0,05%	-0,36%

* Unreliable due to missing samples (cloud-cover)

Studies underway

- Sassan Saatchi, Danae Maniatis, Lee White, Marte Mapangou, Florence Palla, Miguel Leal, Chris Wilks private sector forestry companies (par ex. Leroy Gabon, Rougier, CEB, CBG, Bordamur, etc.) et al.
- *Carbon map of Gabon in 2007 (ALOS , permanent plots, forestry inventories, measures of wood density of principal species, development of allometric equations for Central Africa)*
- *Evaluation of carbon balance 1997-2007 (JERS – ALOS, ground truthing)*
- *Extrapolation to the regional level (images, plots, inventories, ground-truthing)*

DISTRIBUTION OF ABOVEGROUND BIOMASS IN THE AMAZON BASIN

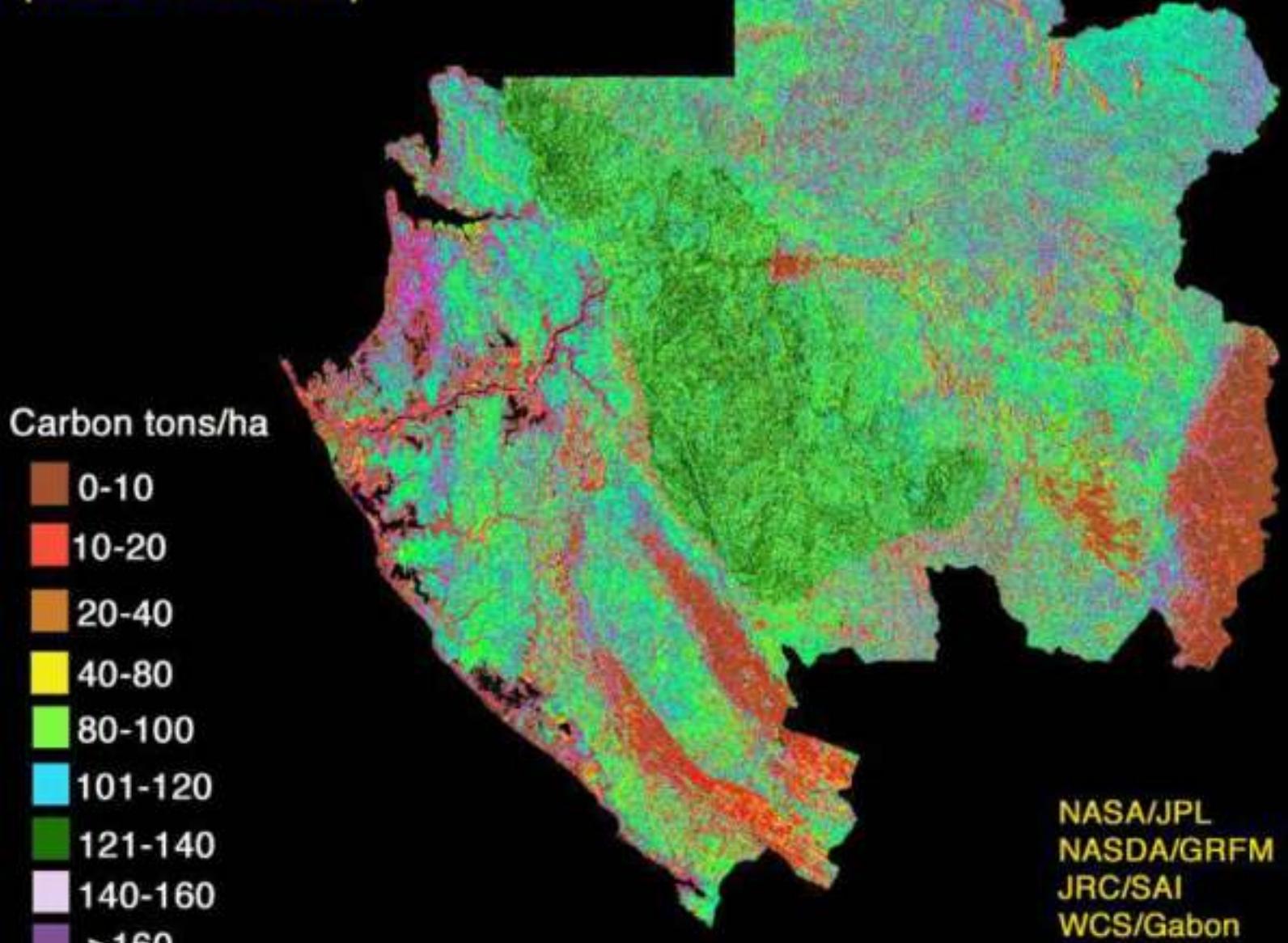


Forest Type	Area Km ²	AGLB PgC	AGDB PgC	BGB PgC	TB PgC	Mean Biomass Mg/ha
Old growth	5135200	63.02	5.67	13.24	81.93	159.54
Floodplain	328825	3.25	0.29	0.68	4.22	128.33
Total	5464025	66.27	5.96	13.92	86.15	157.66
Average		59.19-73.34	1.32-12.27	8.62-17.23	69.13-102.84	140.81-174.49

Total biomass of Amazon basin is around 86 petagrams (86 billion metric tons) of carbon--for comparison, 7.9 billion metric tons of carbon dioxide were emitted in 2005. This means that Amazon locks up at least 11 years of recent carbon dioxide emissions.

Vegetation Carbon Content of Gabon

(Saatchi et al. 2001)





Studies underway

- Simon Lewis . . . Lee White, Marte Mapangou, Florence Palla, et al.
- *Dynamic of carbon in mature forest (cf. studies in the Amazon by Philips, Lewis & Baker) – estimations of biomass / carbon balance in repeat measures on 'Afriftron' (African TRopical Observation Network) of 79 permanent plots. Preliminary analysis suggests mature forests in Central Africa fix c. 1.5T CO₂ / ha / yr, as do Amazonina Forests (eg. Philips et al., 2008)*

