

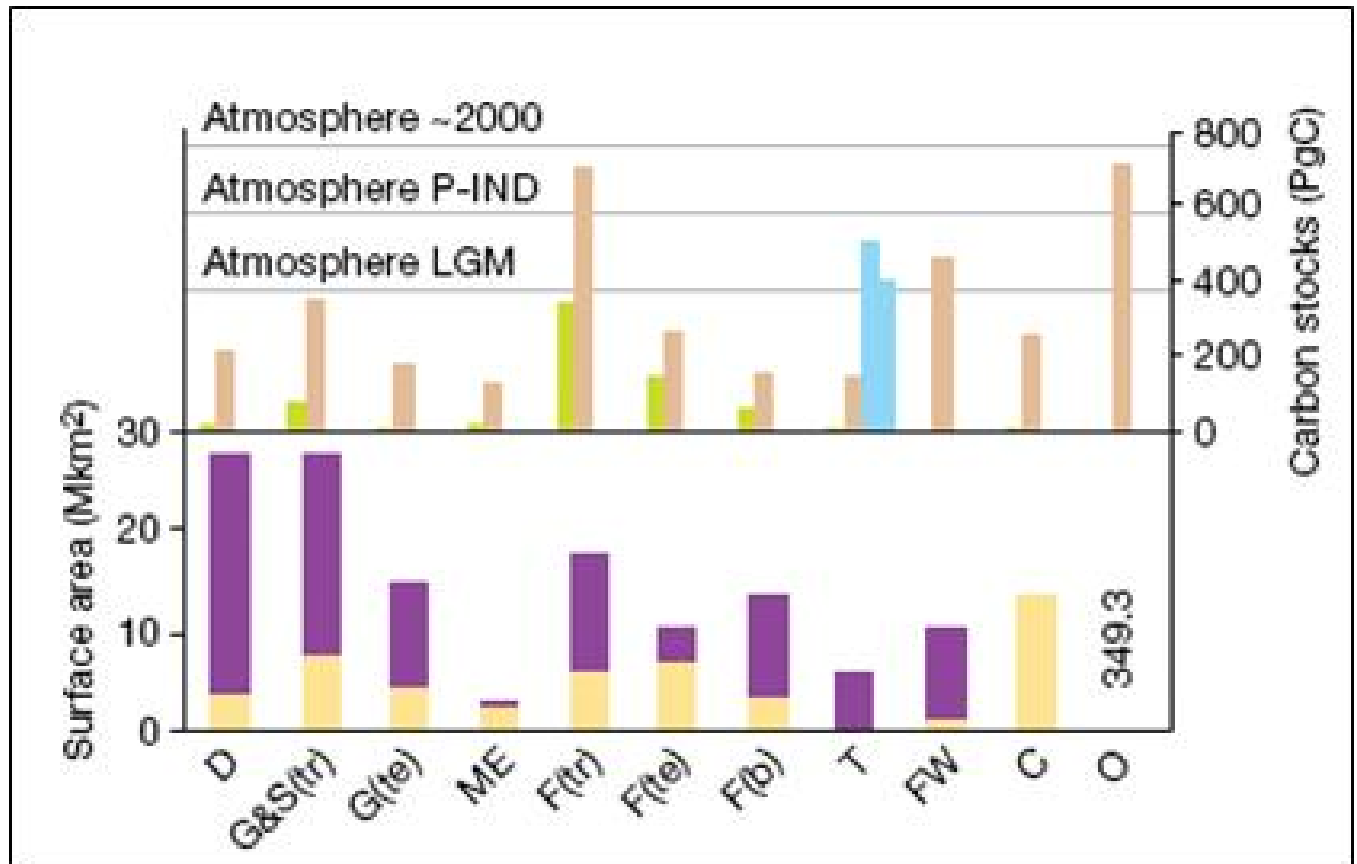


# **Biodiversity:** a core benefit for effective REDD - impacted by logging

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## Total Carbon Stocks/Reservoirs in each Biome (vegetation & soils (and tundra clathrate))



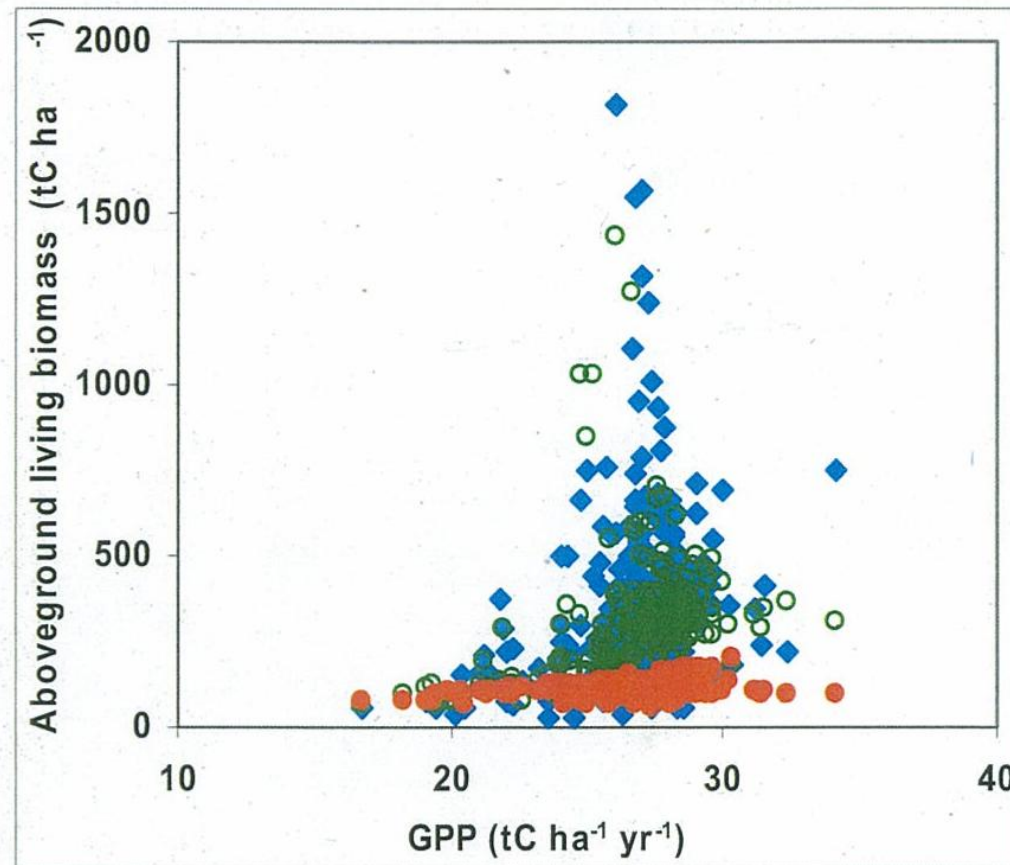


***“Well-functioning ecosystems are necessary to meet the objective of the UNFCCC owing to their role in the global carbon cycle, their significant carbon stocks and their contribution to adaptation”***

**Draft findings of the Ad Hoc Technical Expert Group on Biodiversity and Climate Change, Convention on Biological Diversity November 2008**



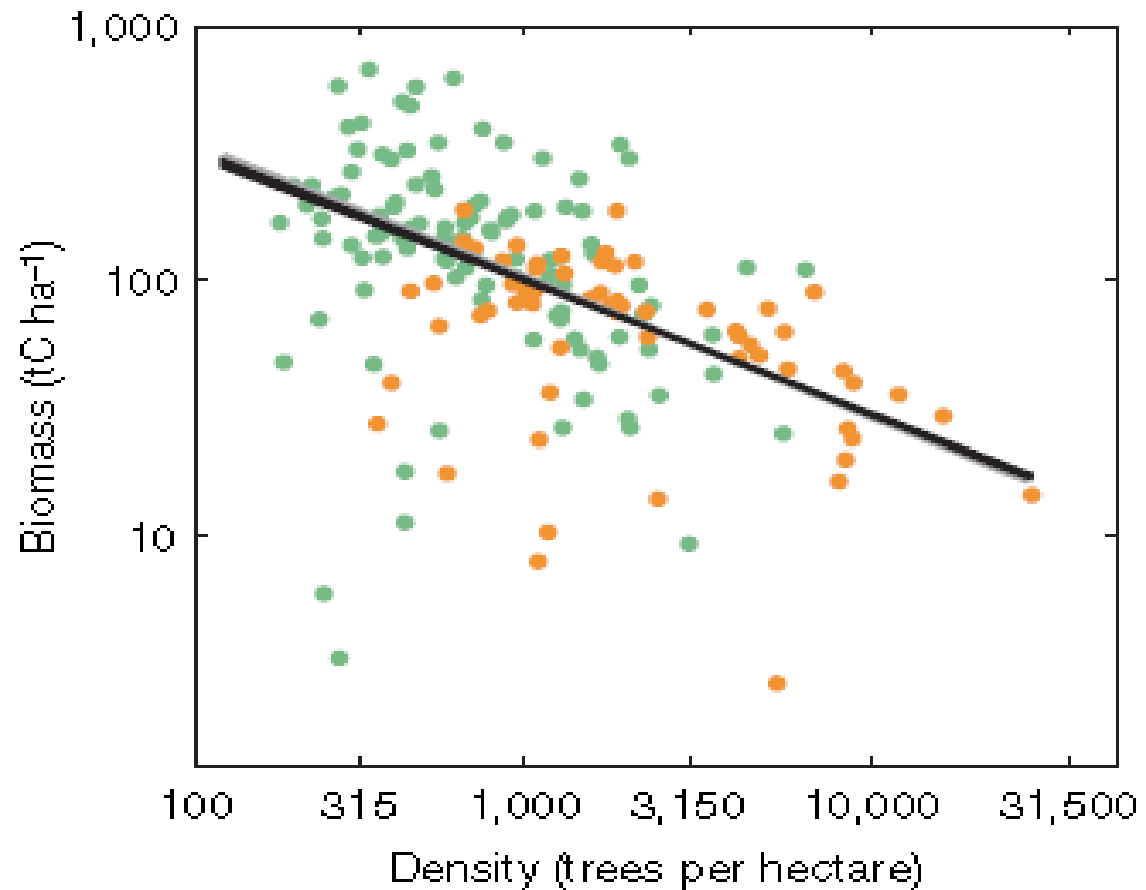
**Cool temperate wet forests have a lot more carbon in them than might be supposed ('Green Carbon', Dr Brendan Mackey 2008)**





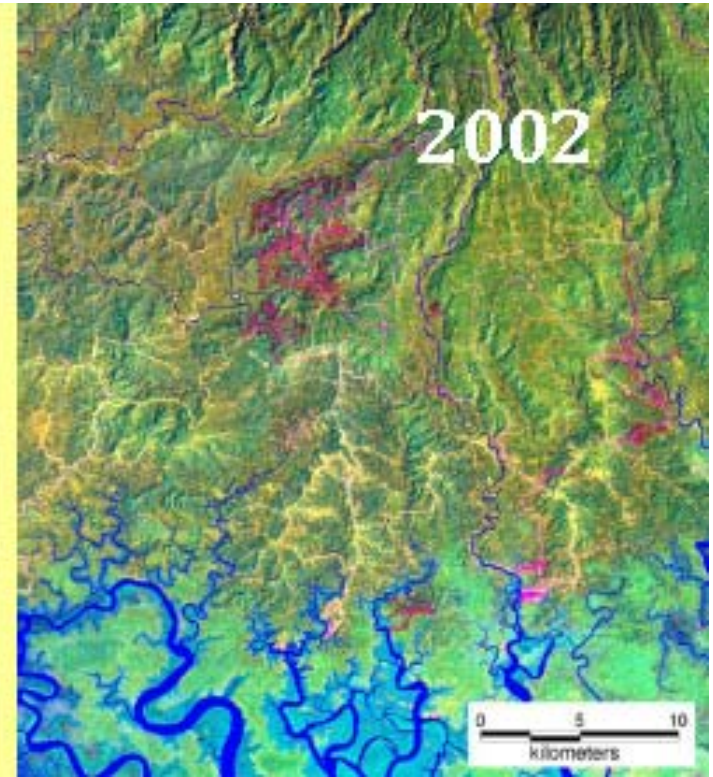


**Biomass accumulation as a function of stand density:  
older forests tend to have fewer, bigger trees**





**Before and after 'selective logging' in PNG:  
degraded forests are less resilient to further degradation  
(including as a result climate change)**



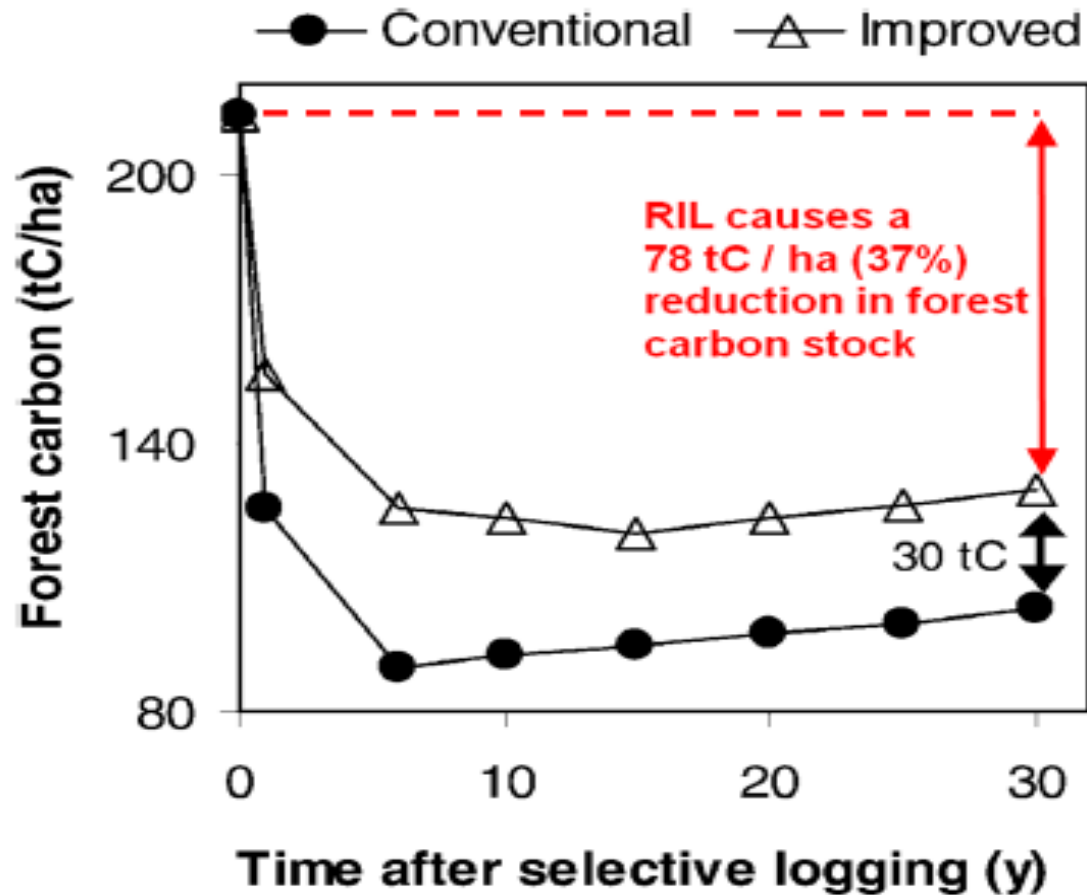


**Biodiverse natural ecosystems are more resilient to climate change, pests and other disturbances than industrial forests and thus are more reliable carbon stores.**

**Biodiversity is a core REDD benefit not a co-benefit**



**Comparison of the effect of conventional and 'reduced impact' logging on forest carbon stocks (from Putz et al, 2008)**





The G8 Environment Ministers meeting in Syracuse, Italy 24 April 2009 called for:

***“synergistic policies that consider the contribution that biodiversity and ecosystems provide for climate change adaptation and mitigation at local, national and global levels, taking into account that biodiversity and ecosystem services are critical for regulating our climate”***



**REDD needs to be designed and institutionalised to give maximum incentives to protect intact ecosystems and therefore most effectively conserve both carbon and biodiversity.**

**SFM, insofar as it includes logging to meet industrial scale demand is part of the problem, not part of the solution**