

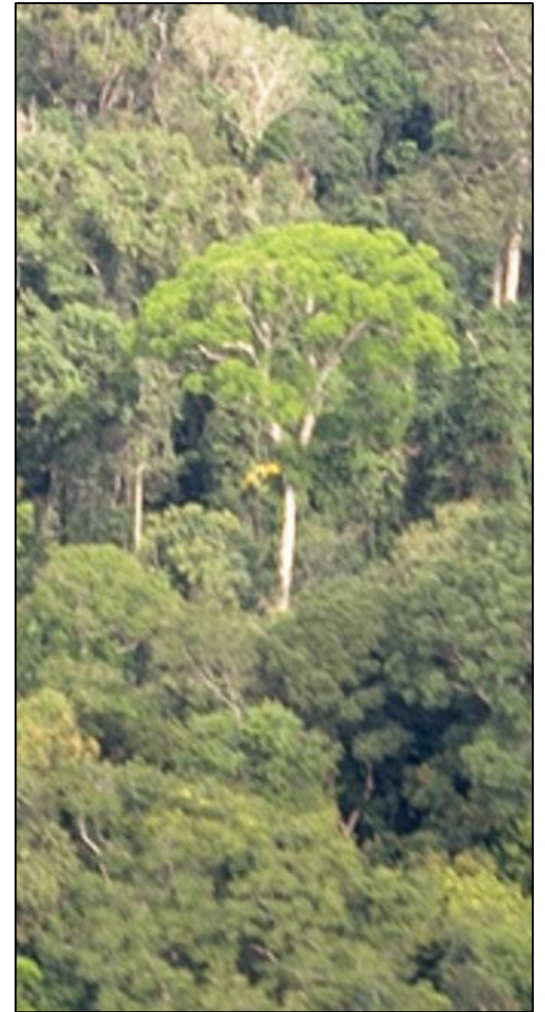


# **Global Forest Responsibility, Pan-European and International Agreements on Forest Issues in the New EU Forest Strategy**

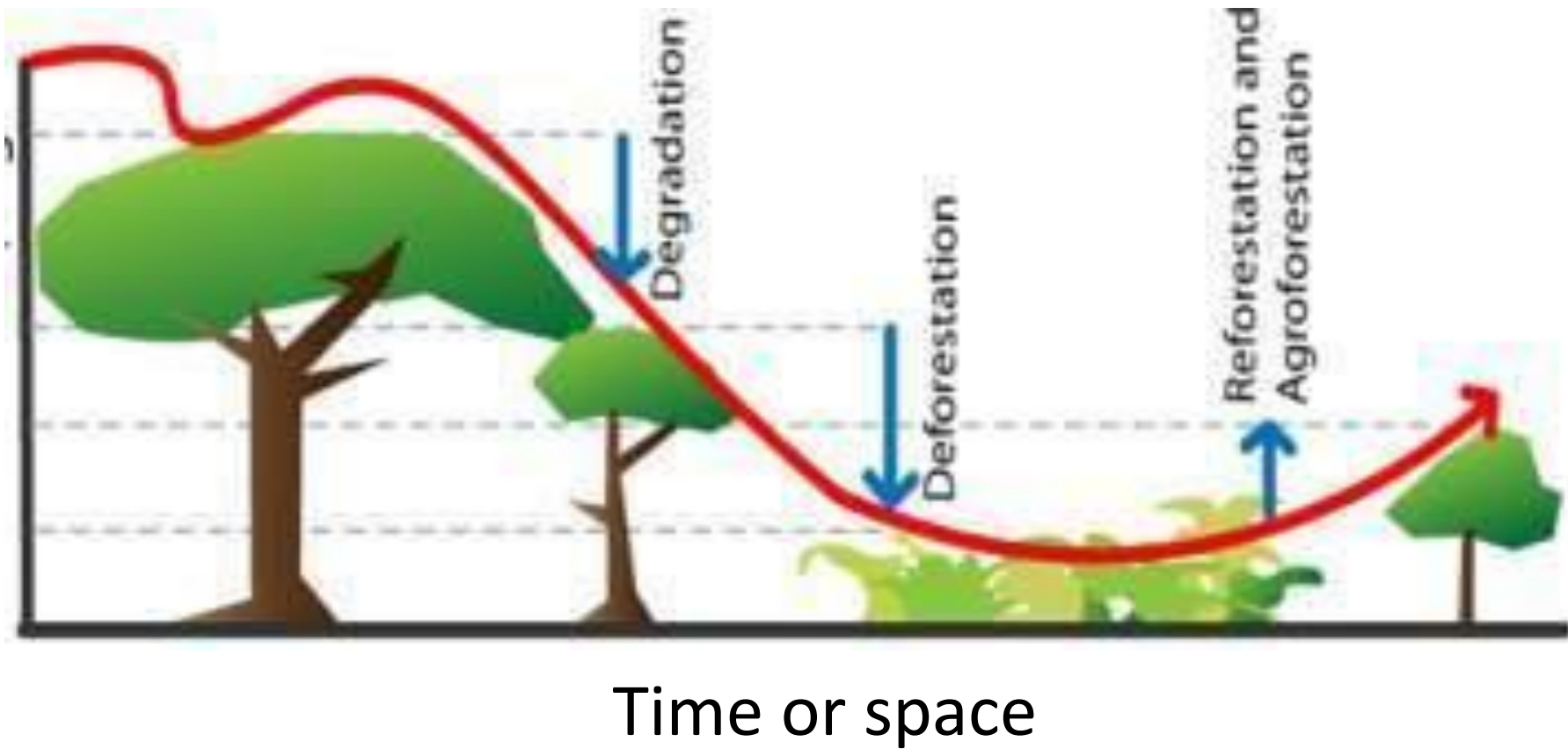
**Tony Simons, Director General  
World Agroforestry Centre (ICRAF), Kenya**

# International, European and National Forest Issues

- 1. What is a Forest?**
- 2. Forest-related Issues**
- 3. Global Dimensions**
- 4. European Dimensions**
- 5. National Dimensions**



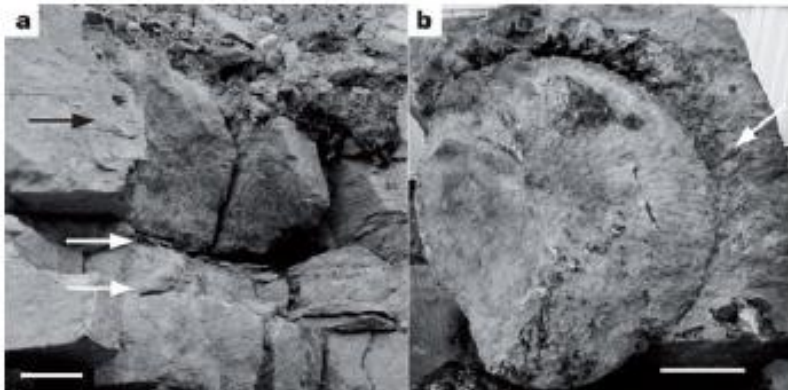
# 1. What is a Forest?



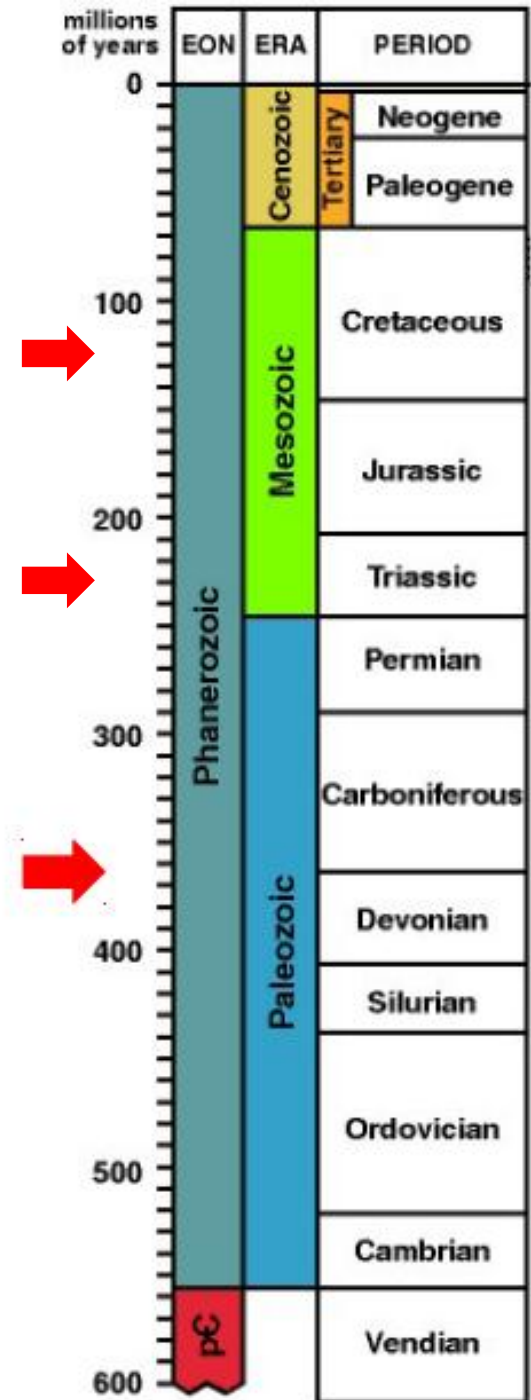
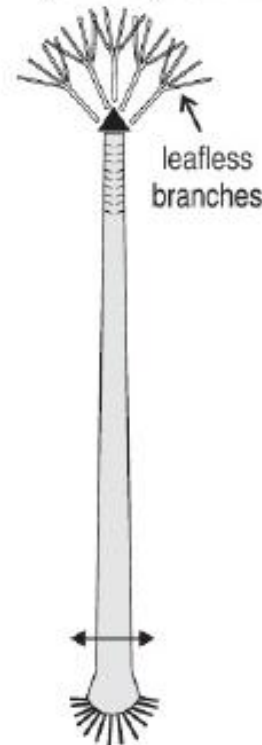
# Early evolution of trees

*Eospermatopteris* trees  
Riverside Quarry, New York, USA.

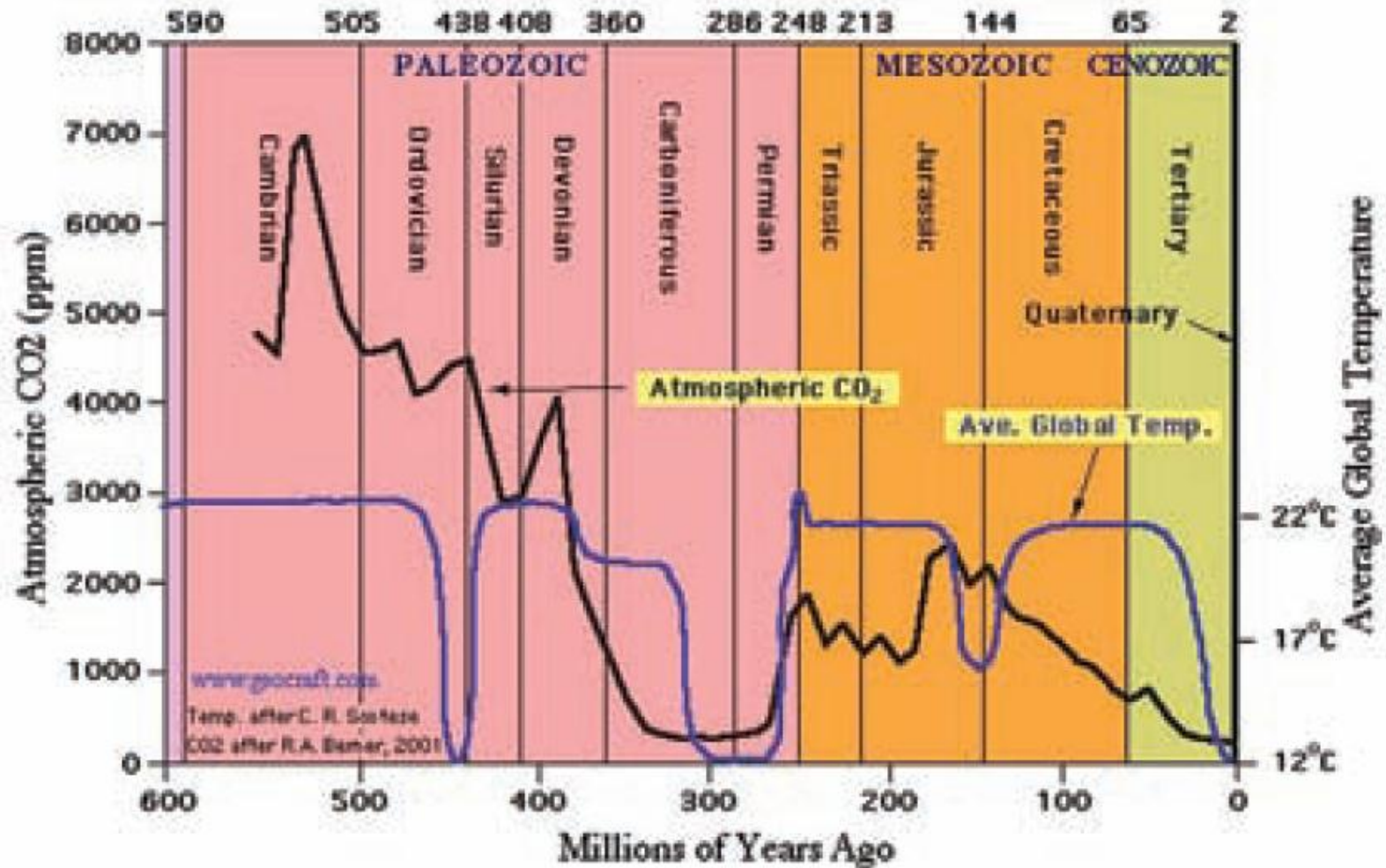
Arborescent lycopsid



Pseudosporochnales  
(Cladoxylopsida)

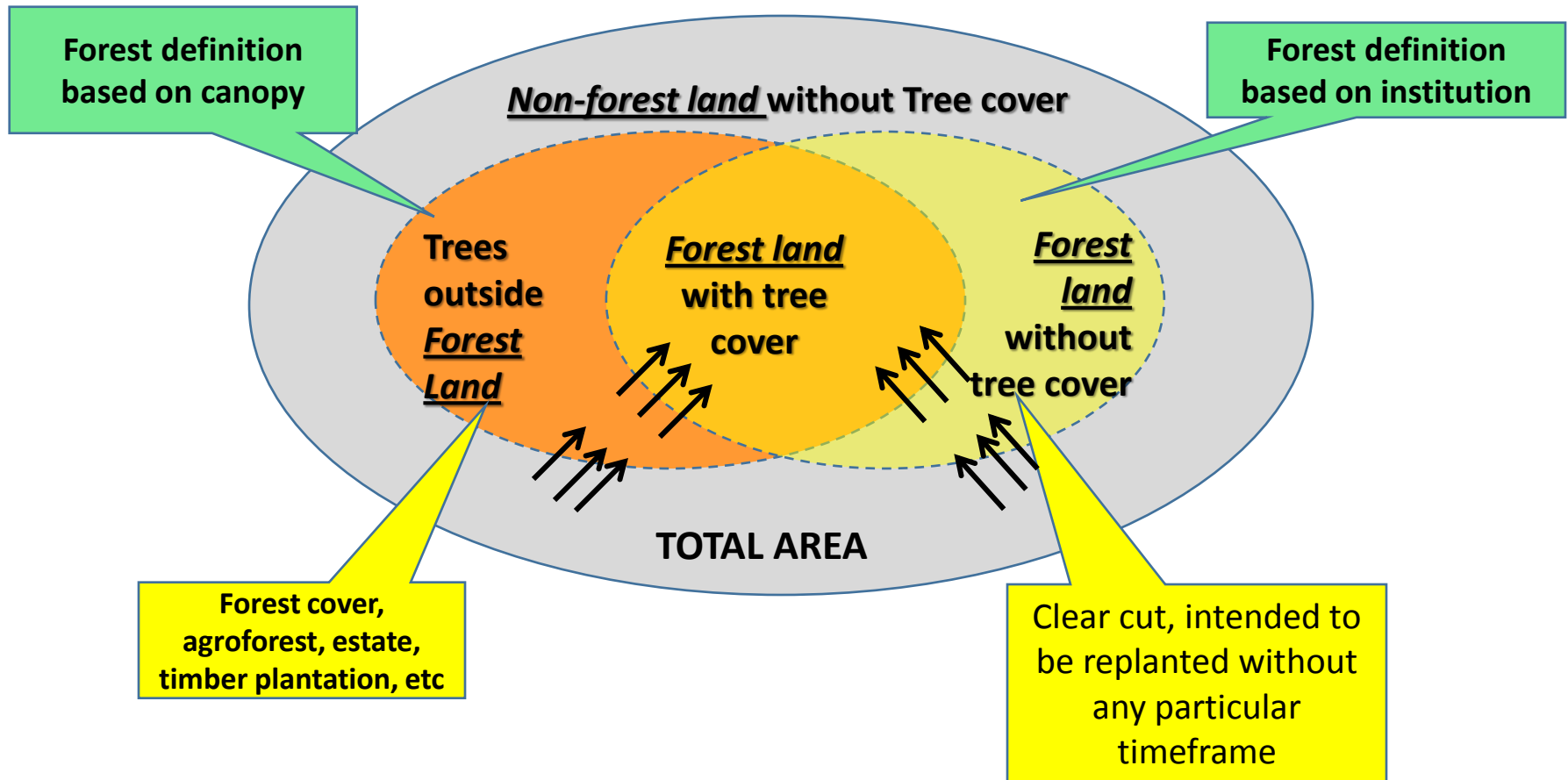


## Global Temperature and Atmospheric CO<sub>2</sub> Over Geologic Time



Source: Temperature after C.R. Scotese <http://www.scotese.com/climate.htm>  
CO<sub>2</sub> after R.A. Berner, 2001 (GEOCARB III).

# Institutional vs biophysical definition of forests

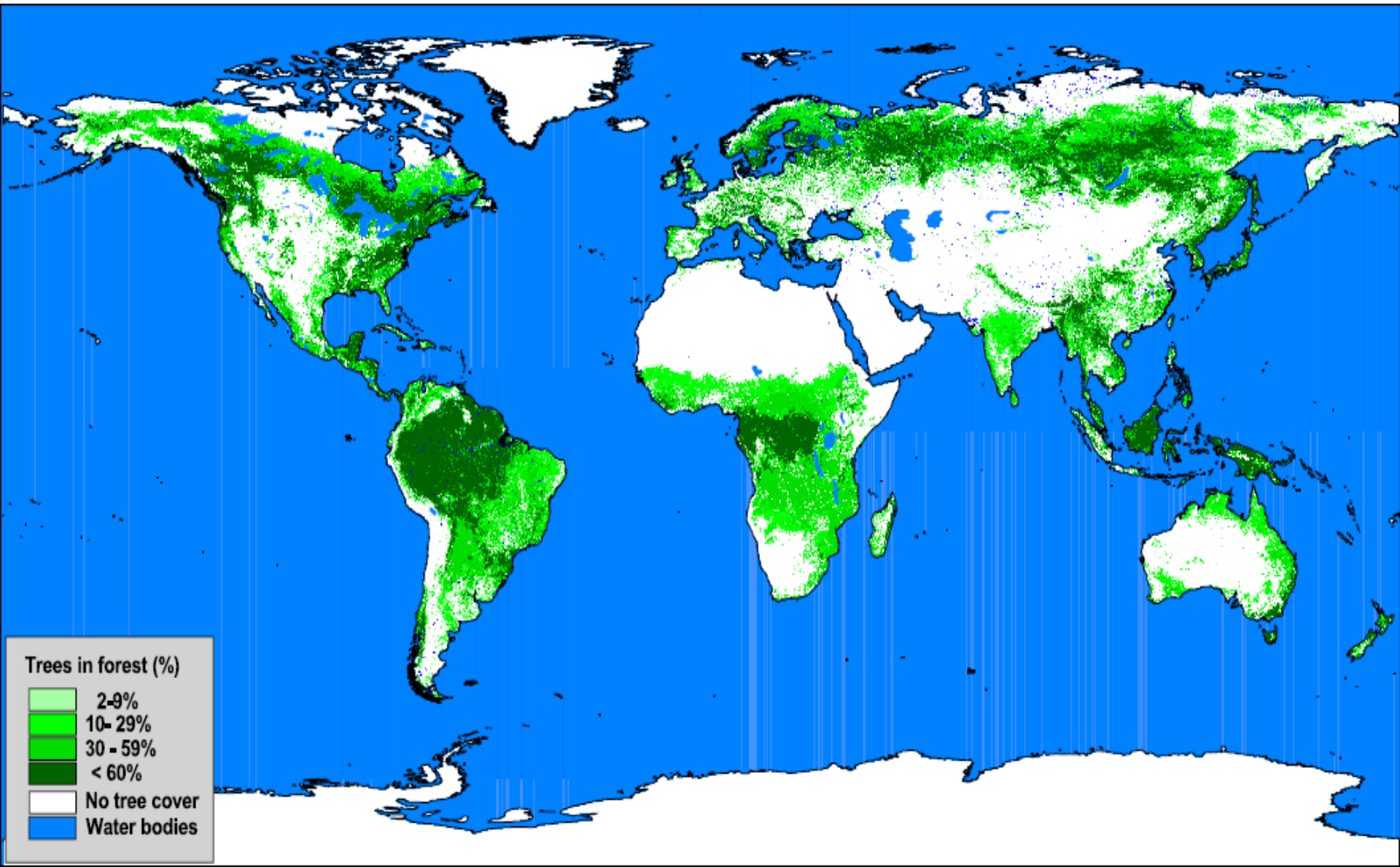


# Any signs of deforestation?

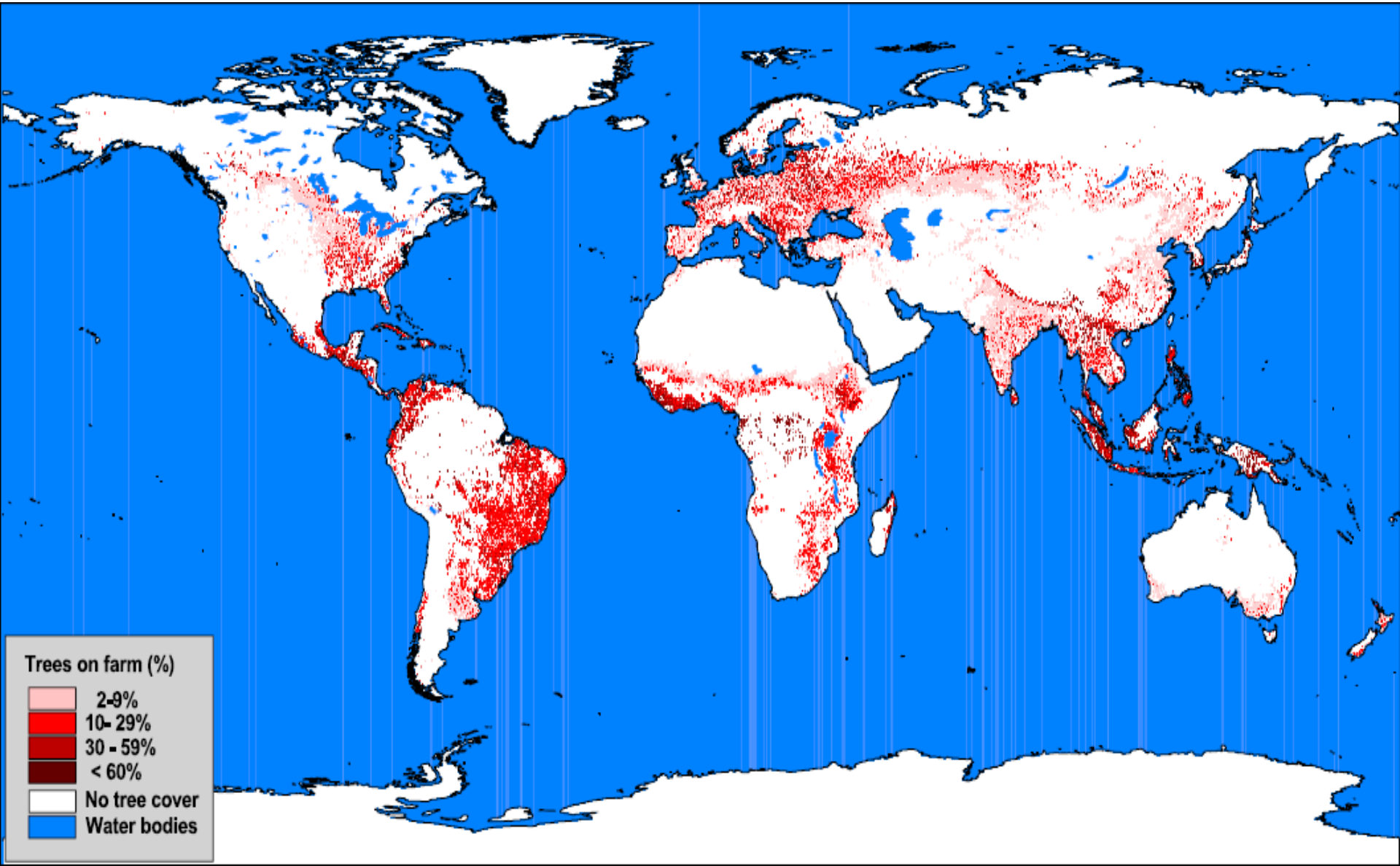
....are included under forest, as are areas normally forming part of the forest area which are *temporarily* unstocked as a result of human intervention such as harvesting or natural causes but *which are expected to revert to forest;*

[FCCC/CP/2001/13/Add.1]

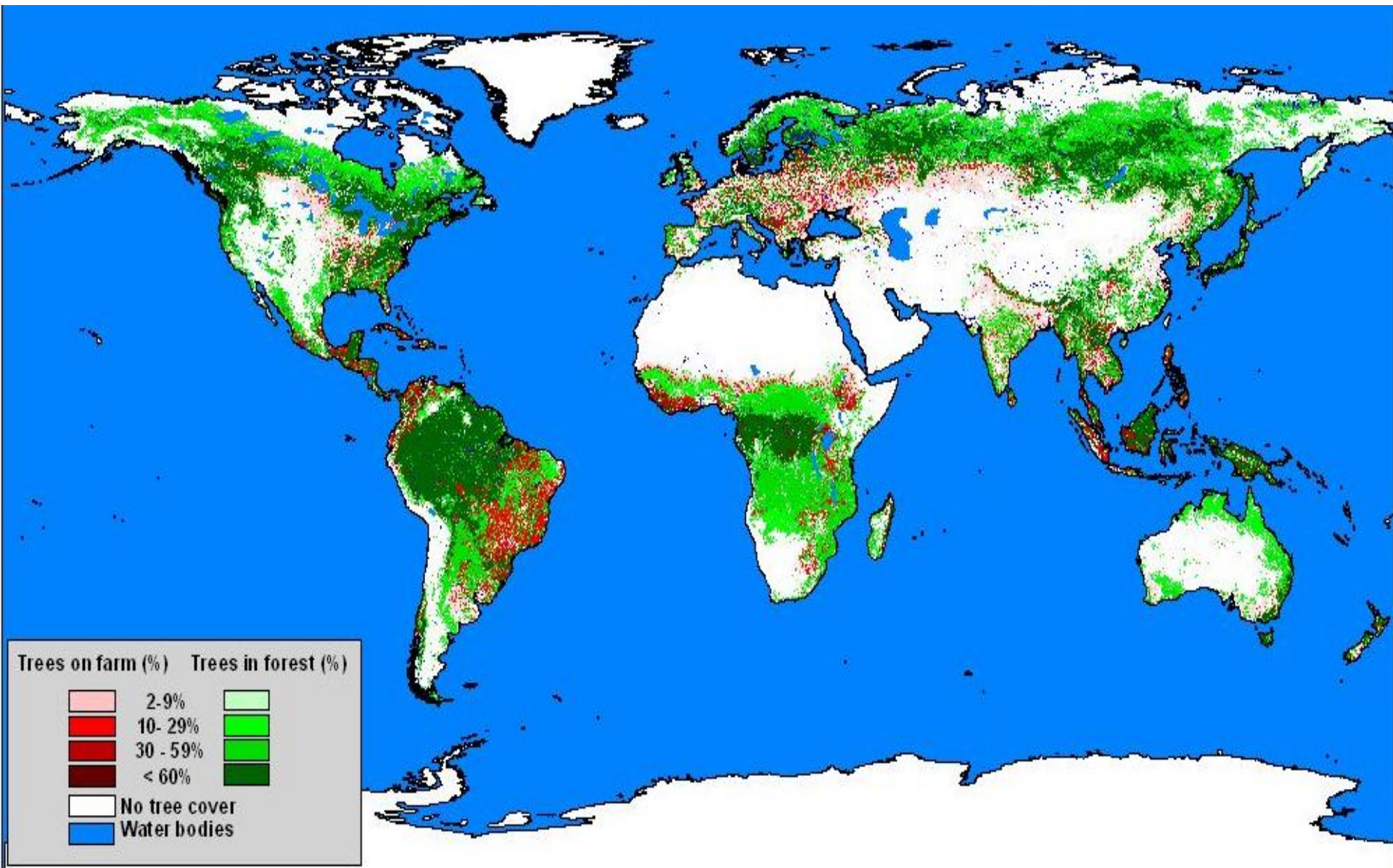
# The foresters' view



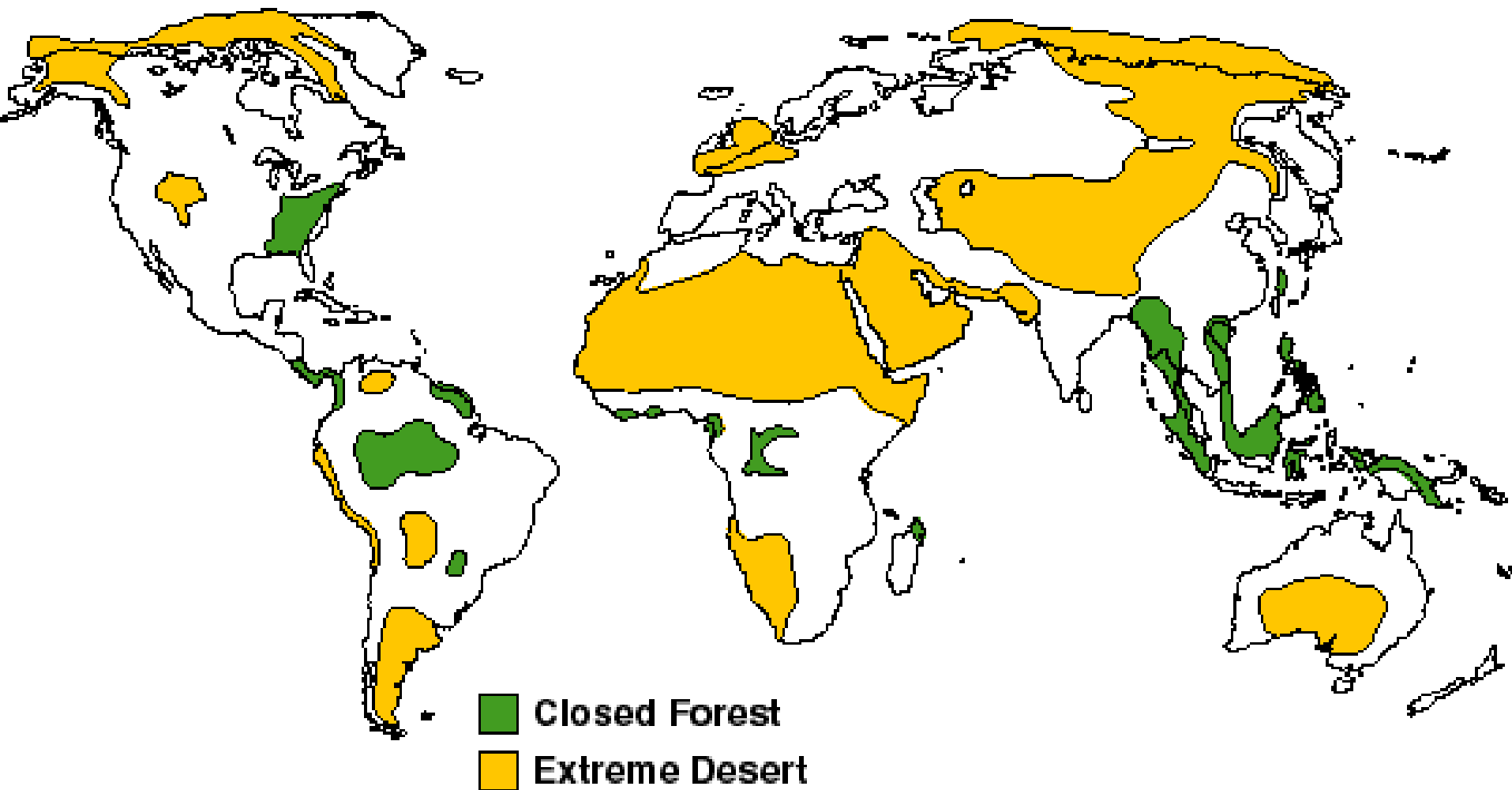
# The agriculturalist's view



# The combined view of Land Use

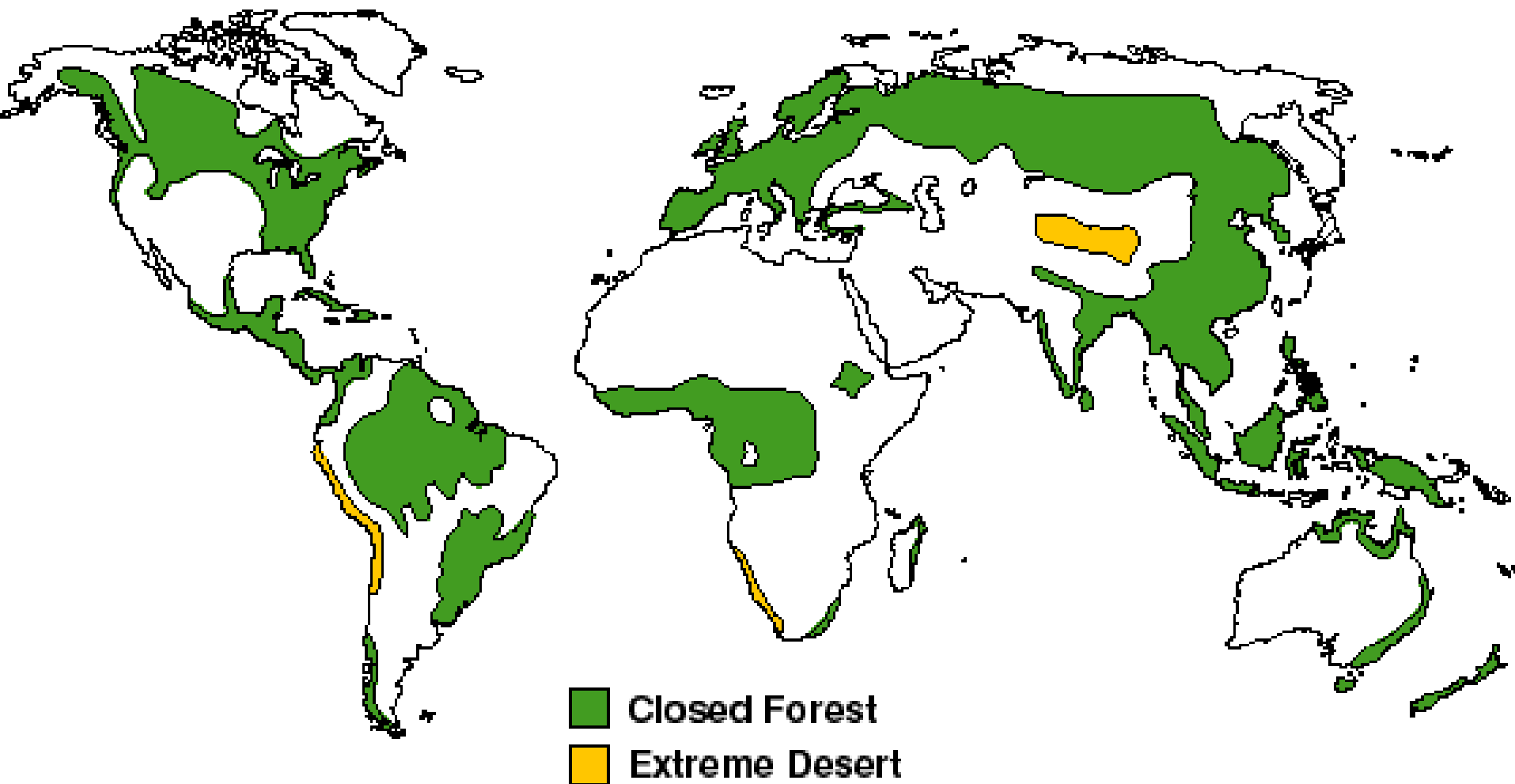


# Last Glacial Maximum (18,000 $^{14}\text{C}$ years ago)



Adams J.M. & Faure H. (1997) (ed.s), QEN members. Review and Atlas of Palaeovegetation: Preliminary land ecosystem maps of the world since the Last Glacial Maximum. Oak Ridge National Laboratory, TN,

# Early Holocene (8,000 $^{14}\text{C}$ years ago)



Adams J.M. & Faure H. (1997) (ed.s), QEN members. Review and Atlas of Palaeovegetation: Preliminary land ecosystem maps of the world since the Last Glacial Maximum. Oak Ridge National Laboratory, TN,



**Then...**  
**Zinder, Niger, 1980s**



**... and now.**

***Zinder, Niger, today.***

**These 5 million hectares of new agroforest  
parklands are yielding**

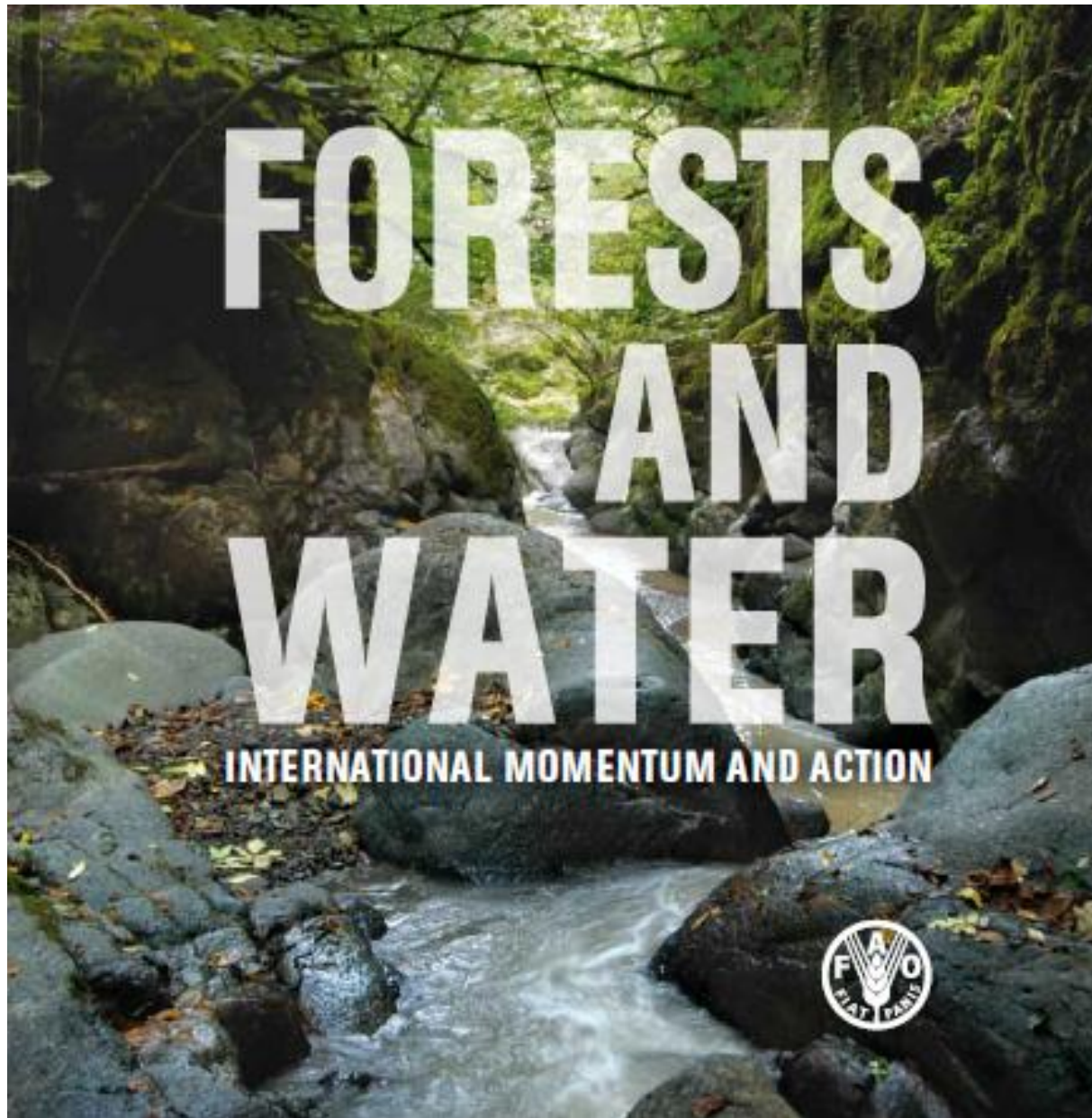
**500,000 tonnes**

**more than before.**

***(Reij, 2012)***

Farmer-managed naturally regenerated leguminous tree  
parklands in millet/sorghum systems.

## 2. Forest Related Issues



### **TCGF Board Resolution on Deforestation**

As the Board of The Consumer Goods Forum, we pledge to mobilise resources within our respective businesses to help achieve zero net deforestation by 2020.

We will achieve this both by **individual** company initiatives and by working **collectively** in partnership with governments and NGOs.

Together we will develop specific, time bound and cost effective action plans for the different challenges in sourcing commodities like palm oil, soya, beef, paper and board in a sustainable fashion.

We will also work with other stakeholders – NGOs, Development Banks, Governments etc – to create funding mechanisms and other practical schemes that will incentivise and assist forested countries to conserve their natural assets and enable them to achieve the goal of zero net deforestation, whilst at the same time meeting their goals for economic development.

# Aichi Targets

## Target 5

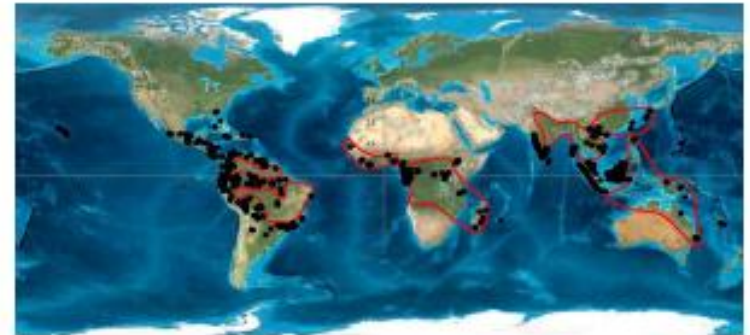
By 2020, the rate of **loss of all natural habitats**, including forests, is at least halved and where feasible brought close to zero, and **degradation and fragmentation** is significantly reduced.

## Target 15

By 2020, ecosystem resilience and the contribution of **biodiversity to carbon stocks** has been enhanced, through conservation and restoration, including restoration of at least 15 per cent of degraded ecosystems, thereby contributing to climate change mitigation and adaptation and to combating desertification.

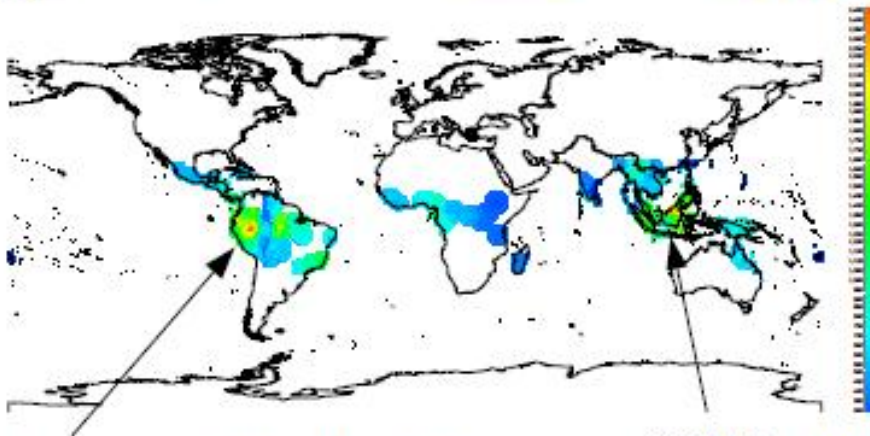
# Diversity of trees

Data of trees ( $\geq 10$  cm dbh) from 206  $1^\circ$  grid cells, 657,630 individuals, 12,251 species



Number of tree species

	# species
Neotropic.	18,589
Africa	4,626
Asia	19,014
Total	40,517

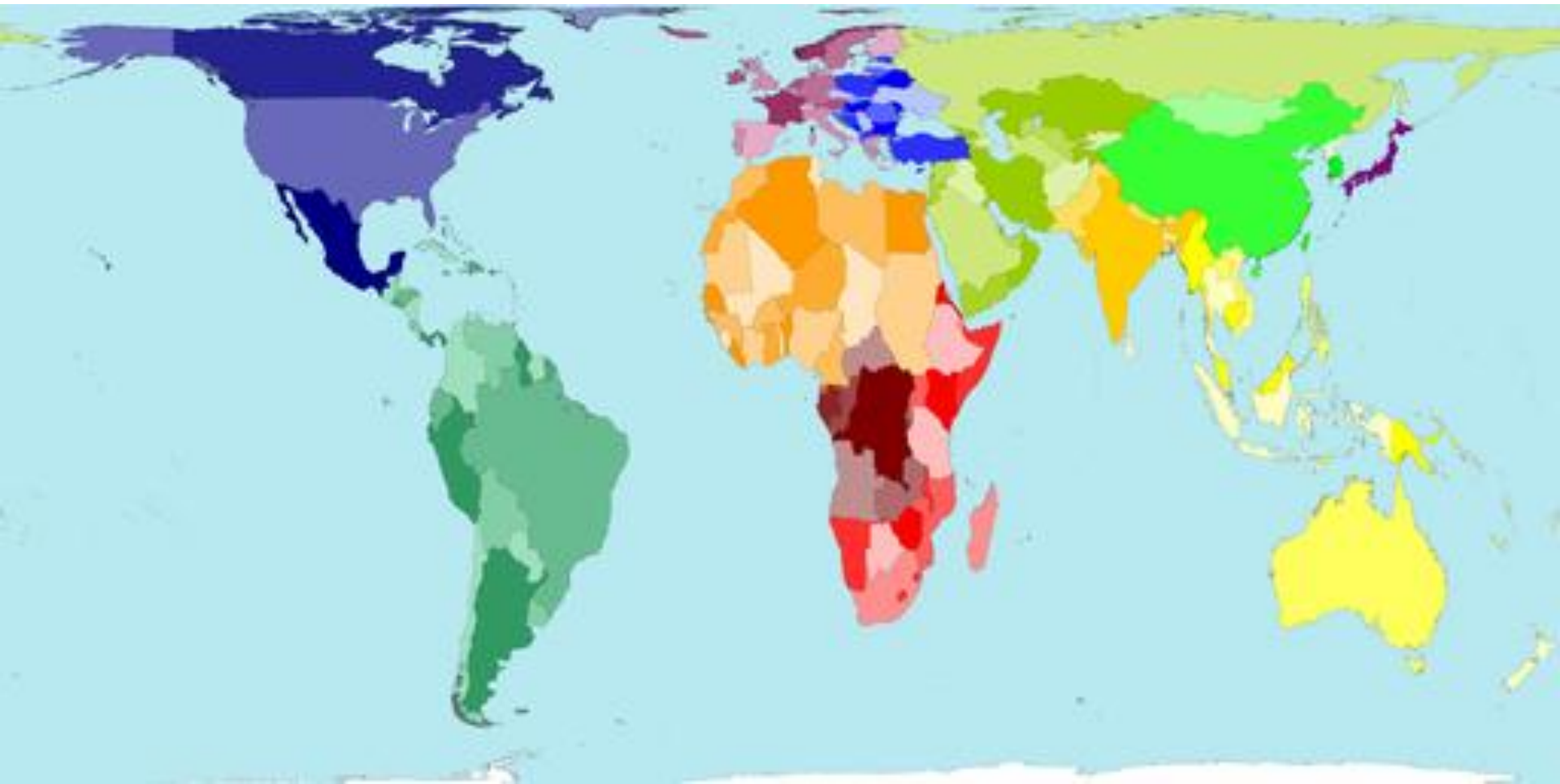


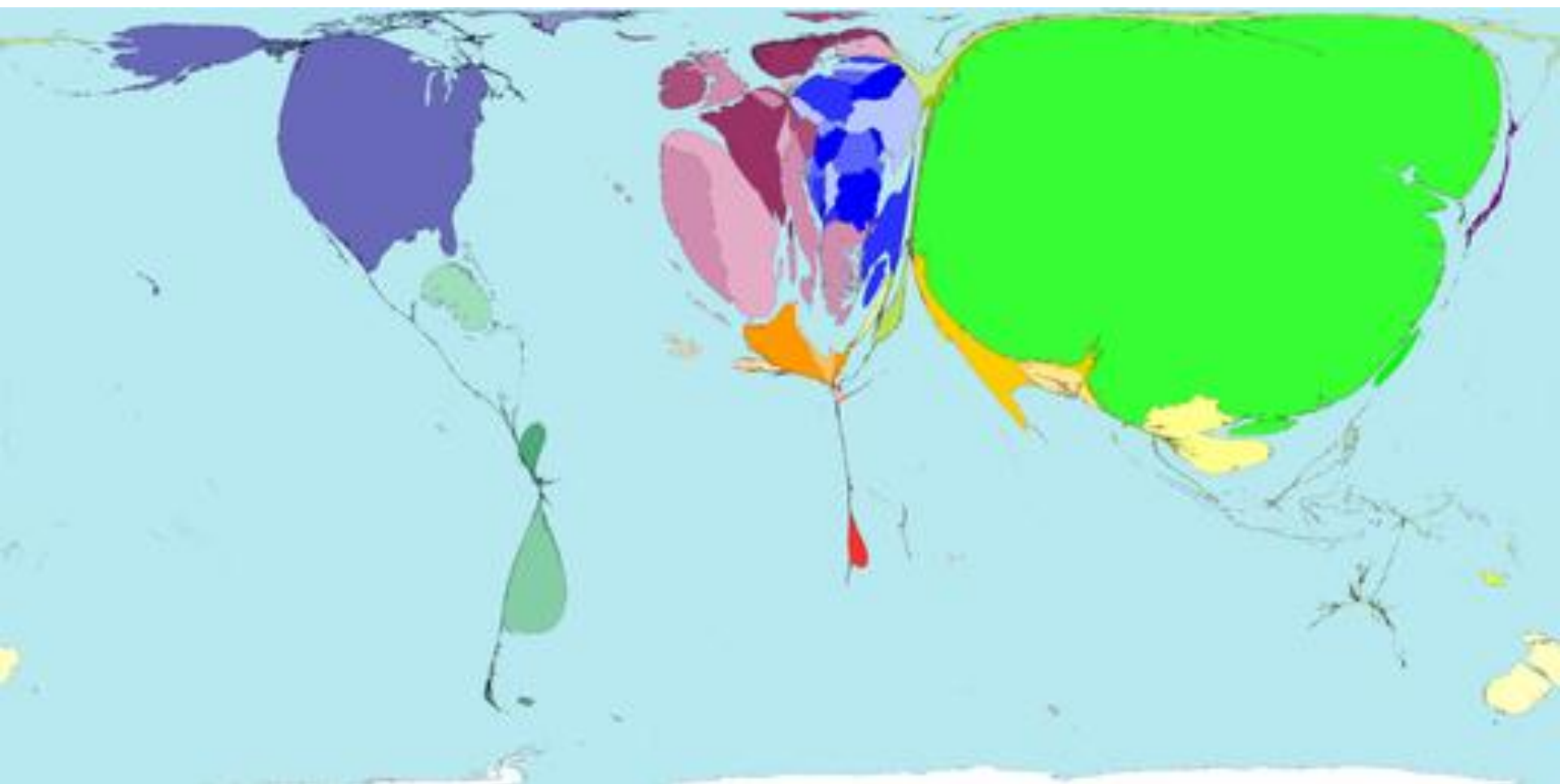
2,500 species /  $1^\circ$  grid cell

2,700 species /  $1^\circ$  grid cell

Slik et al. *In prep*

### 3. Global Dimensions





**Net forest growth 1990-2000**



# United Nations FORUM ON FORESTS



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## International Day of Forests UNHQ Celebration from #UNForests on Flickr



[IAF](#)

[Key Dates & Deadlines](#)

[Media](#)

### [Review of the International Arrangement on Forests \(IAF\)](#)

- [AHEG2 on the IAF](#) will take place 12-16 Jan 2015 in UNHQ, NY
- [AHEG1 on the IAF](#) (Feb 2014, Nairobi)
- [AHEG1 Report E/CN.18/2015/10](#) [ [Arabic](#) | [Chinese](#) | [English](#) | [French](#) | [Russian](#) | [Spanish](#) ] and [Supplementary Information document](#)
- [Views and Proposals by Member States on the IAF](#) (PDF 24MB file) | [Webpage](#)
- [Independent Assessment of the IAF](#)



### UNFF11 (4-15 May, 2015)

- ▶ [Provisional Agenda](#)



### Forests in the post-2015 agenda

- ▶ [Promoting integration of forests in the post-2015 development agenda](#)

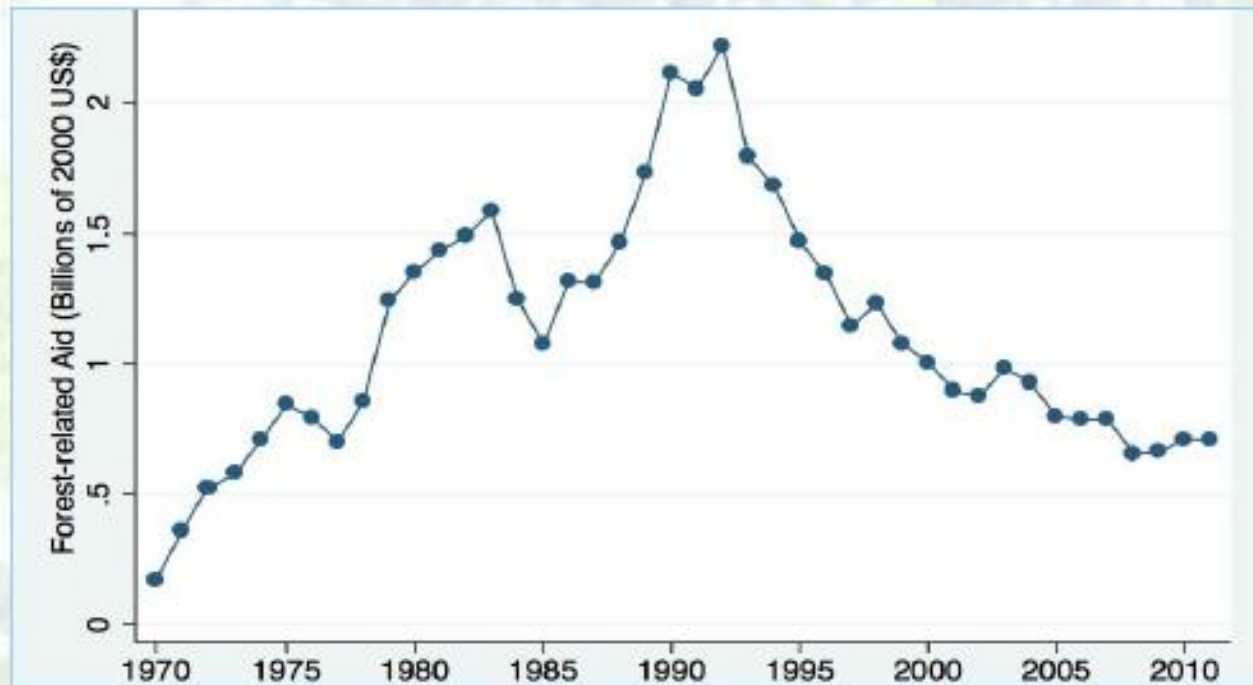


### News

- ▶ **NEW** [Independent Assessment of the International Arrangement on Forests \(IAF\)](#)

# Levels of international aid for forests during the last 40 years

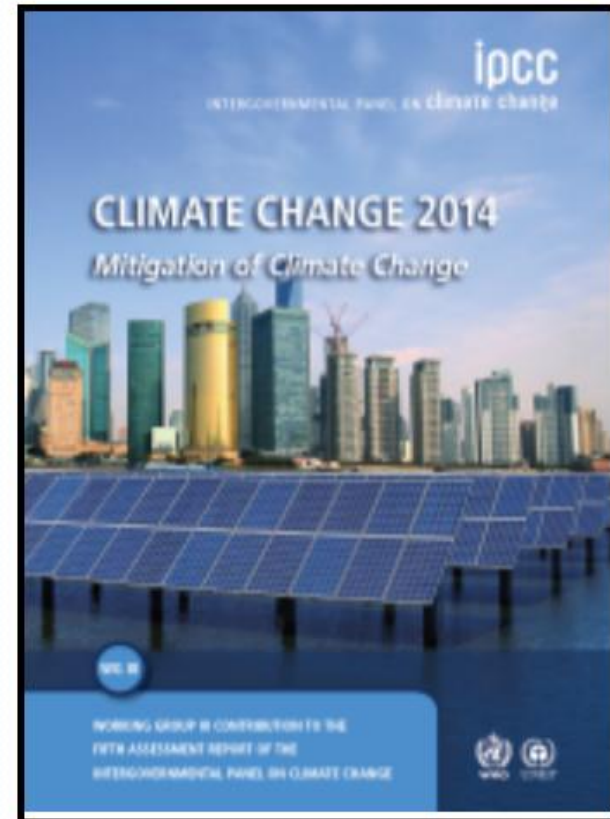
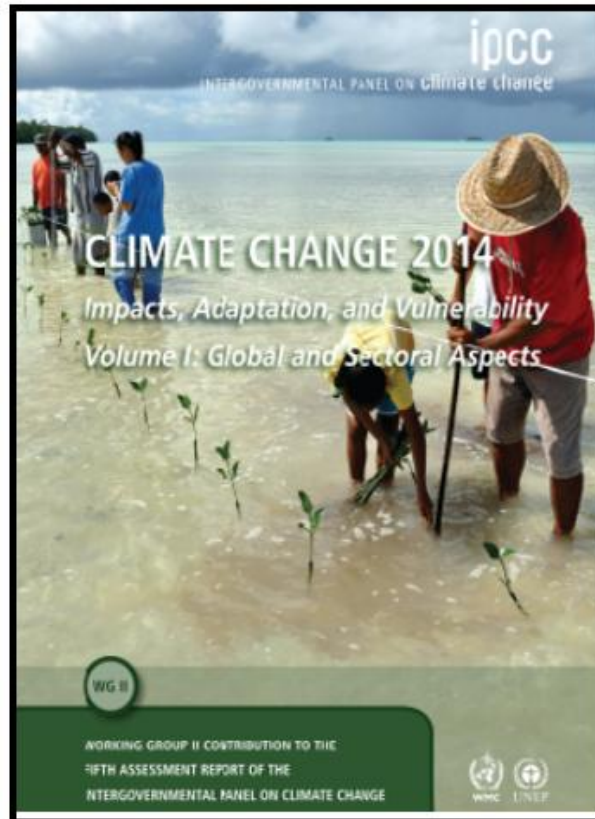
Forest-Related Aid: 1970-2010 in billions of \$US (Source: PLAID Data, 1970-2010)



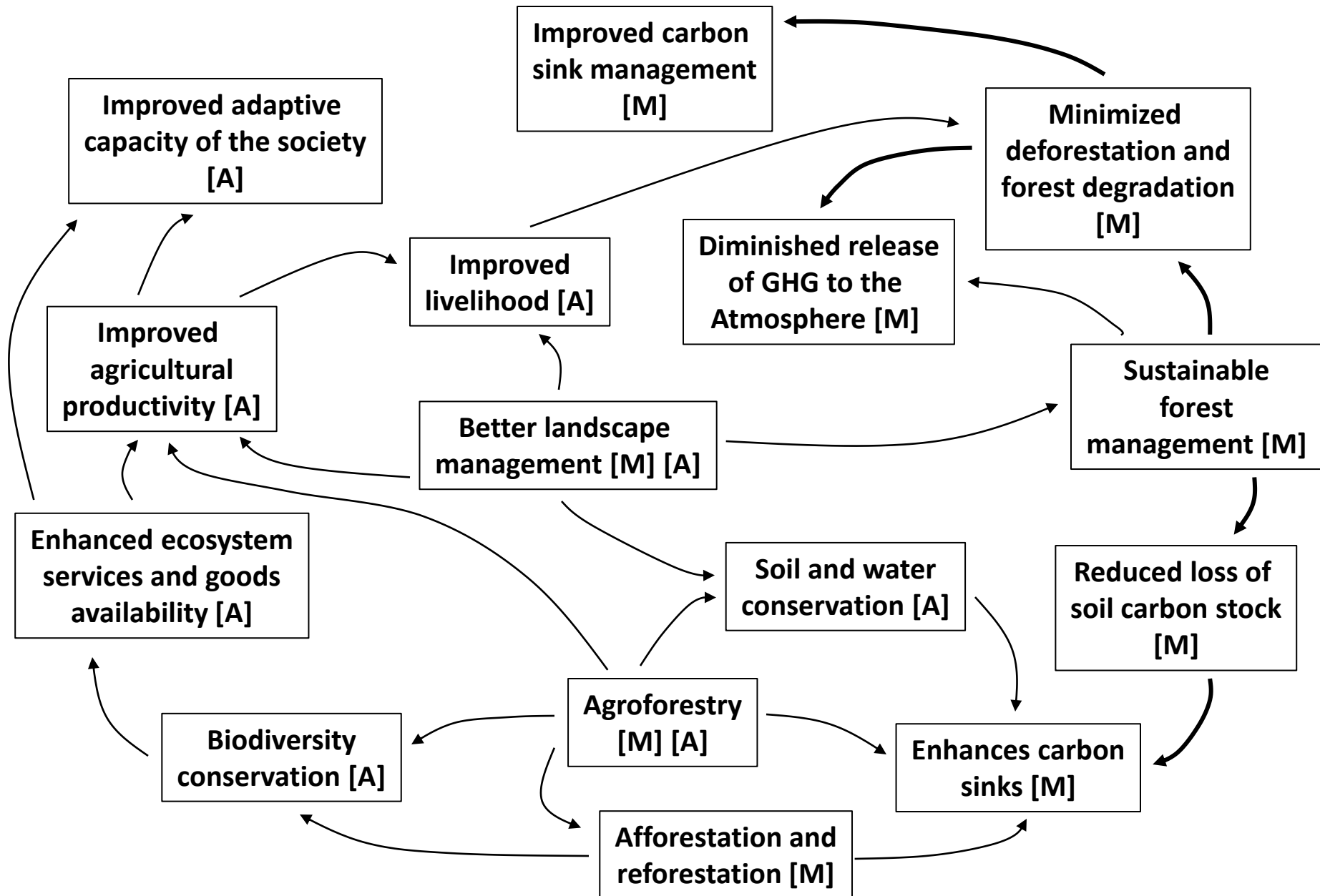
- Formal economic contributions in developing countries more than 300 times available ODA flows



# 5<sup>th</sup> Assessment Report of IPCC



## Arbitrary separation of adaptation and mitigation ??



# **Independent Assessment of the International Arrangement on Forests (IAF)**

## **Report of the Team of Independent Consultants**

**New York, September 2014**

### **Independent Consultants ("Team")**

**BLASER, Juergen (WEOG – Switzerland)**

**CHIPETA, Mafa Evaristus (Africa – Malawi)**

**ILLUECA, Jorge (Latin America and the Caribbean – Panama)**

**LOBOVIKOV, Maxim (Eastern Europe – Russian Federation)**

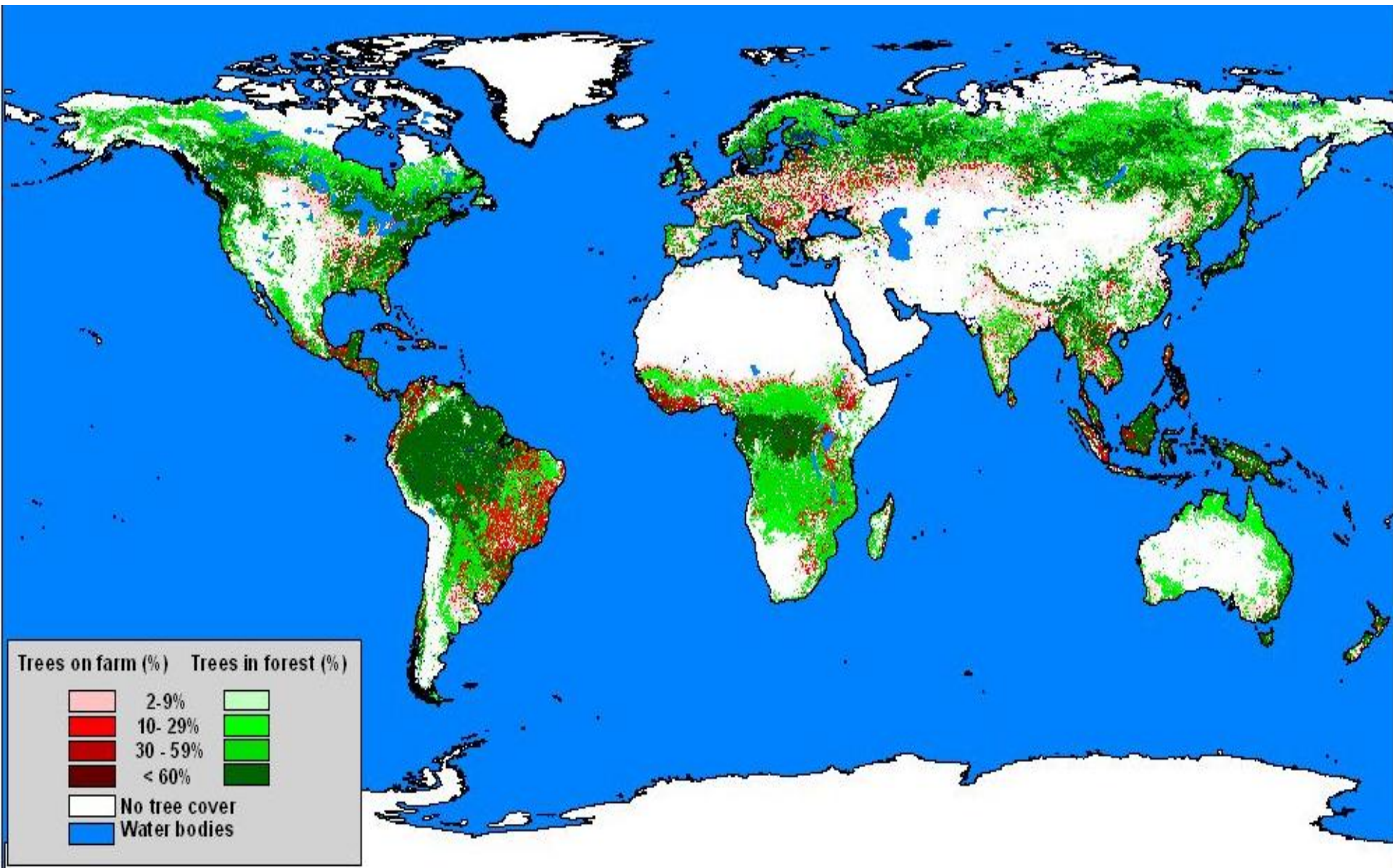
**UMALI, Ricardo Martinez (Asia – the Philippines)**

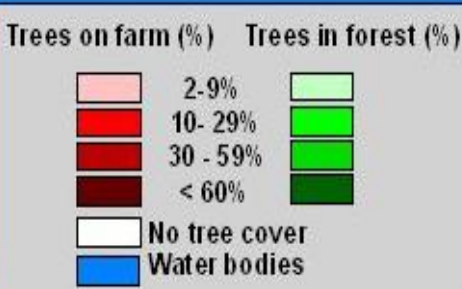
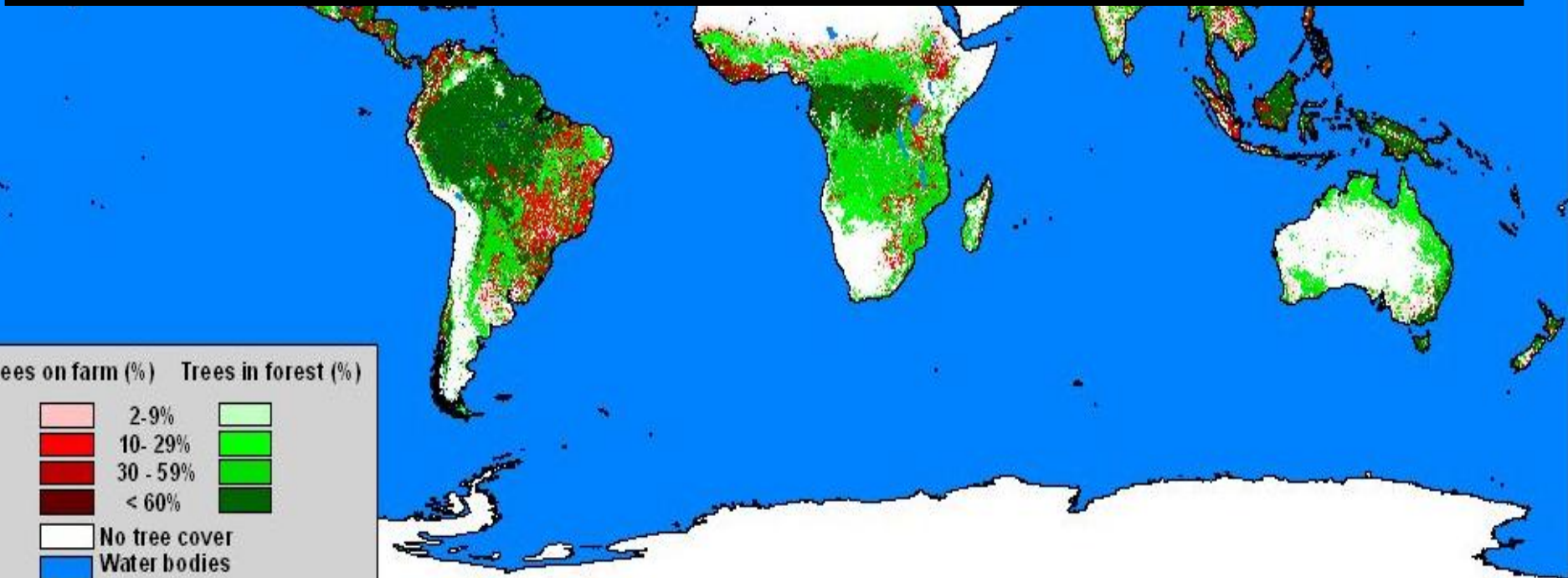
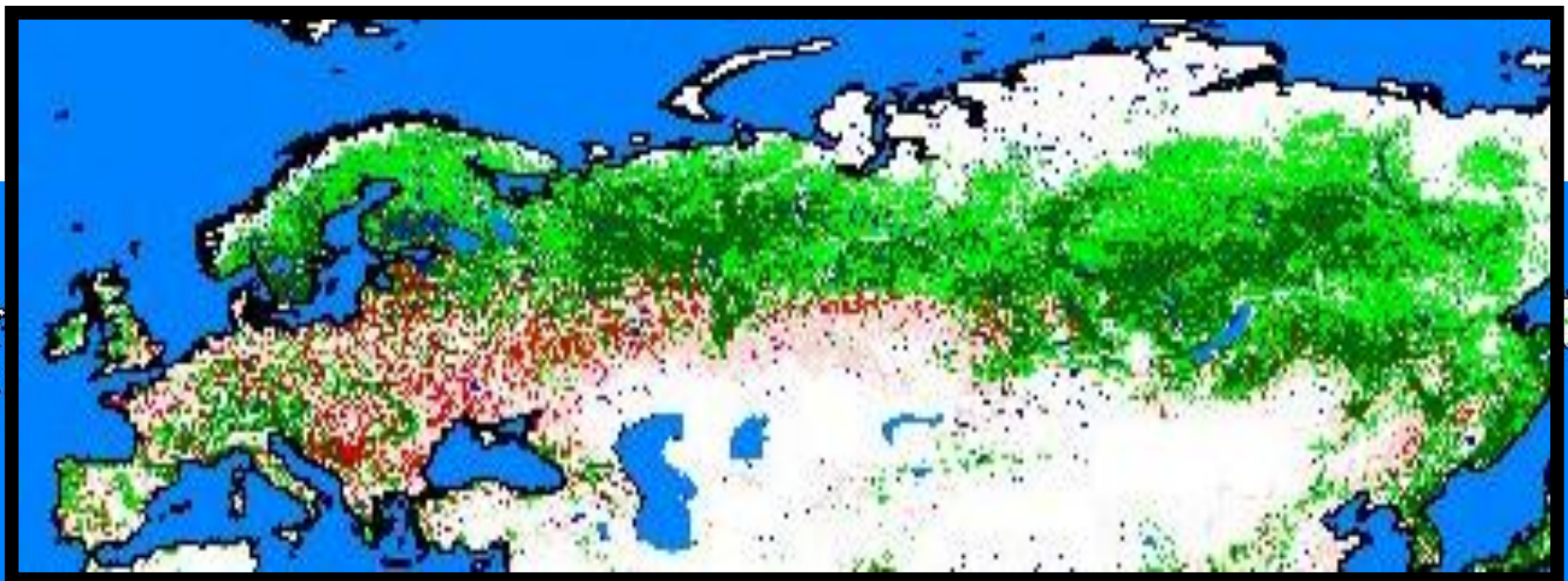
### **Co-Facilitators**

**HOOGEVEEN, Hans (The Netherlands)**

**ABDULLAH, Saiful (Malaysia)**

# 4. European Dimensions







Caring for our forests globally

National Sites

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[Home](#) | [About PEFC](#) | [Forest Issues](#) | [Projects](#) | [Standards](#) | [Certification Services](#) | [Resources](#) | [News & Media](#) | [Find certified](#)

Manage Responsibly

Produce Responsibly

Buy Responsibly

## As a Consumer

Look out for the PEFC label when buying furniture, paper and other wood-based products.

[» LEARN MORE](#)

All News

National

Technical



### China Celebrates Endorsement of its National System at International...

Nov 03 2014 The endorsement of the Chinese Forest Certification Scheme (CFCS) was the centerpiece of the...

[» MORE](#)



### Purchasing Newsprint from Sustainable Sources Highlighted at WAN-IFRA...

Oct 31 2014 The environmental benefits of purchasing

## PEFC is the world's leading forest certification organization.

An international non-profit, non-governmental organization dedicated to promoting sustainable forest management, the Programme for the Endorsement of Forest Certification is the certification system of choice for small forest owners.

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# Global Bioenergy

SUPPLY AND DEMAND PROJECTIONS



A working paper for REmap 2030



September 2014

**Current biomass use is 53 million Exa-Joules  
(1 Exa-Joule =  $10^{18}$  Joules)**

**This will rise to 108 million Exa-Joules  
by 2030**

**Renewable energy could be up to 36% of  
energy mix by 2030**

**Biomass could be up to 60% of all  
renewable energy supplies by 2030**

**Biomass energy will come from agricultural  
waste/residue (40%), energy crops (30%)  
and forest products (30%)**

**56% of the demand will be from Brazil, China,  
India, Indonesia and USA**

# National Dimensions: Poitou-Charente (France)

160 Ha farm, including:

- Agroforestry: 62 Ha wheat & walnut/wild cherry, 70-90 trees Ha<sup>-1</sup>
- Forestry: 10 Ha walnut, 200 trees Ha<sup>-1</sup>
- Both planted 35 years ago



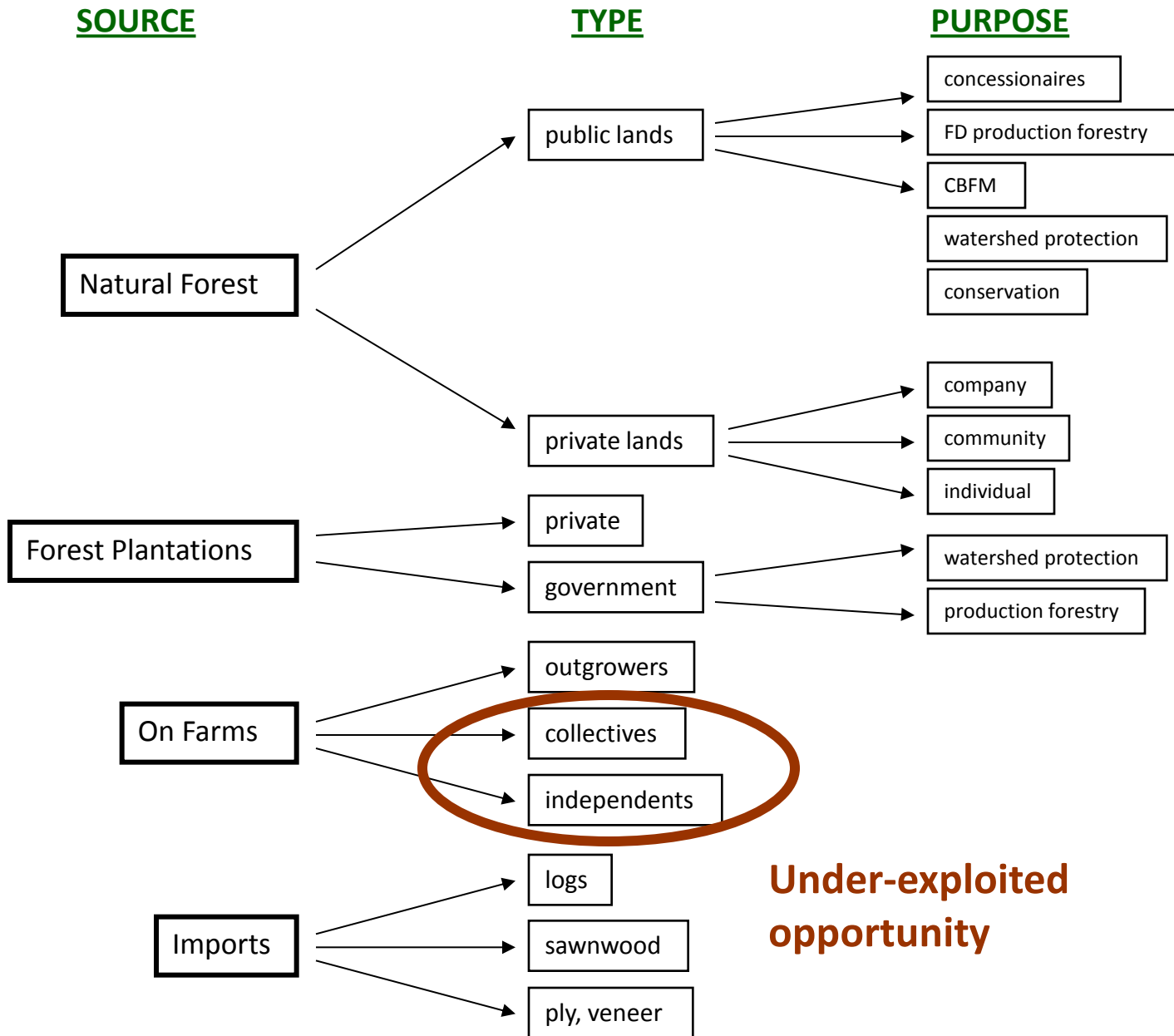
## Impact on income:

- Woody biomass identical in AF and forest plots (2014)
- Wheat yield ~ identical in AF and conventional plots for first 25 years - except in drought years, when AF yield > conventional yield
- AF plots converted to hay pastures now. Late hay harvest, thus ↑ value.
- Timber harvest starting, value ~ 2,000,000 €.

## Impact on soil:

- Soil organic carbon in AF plot doubled in 25 years.
- Less erosion, higher water percolation in AF plot

# Forests and timber



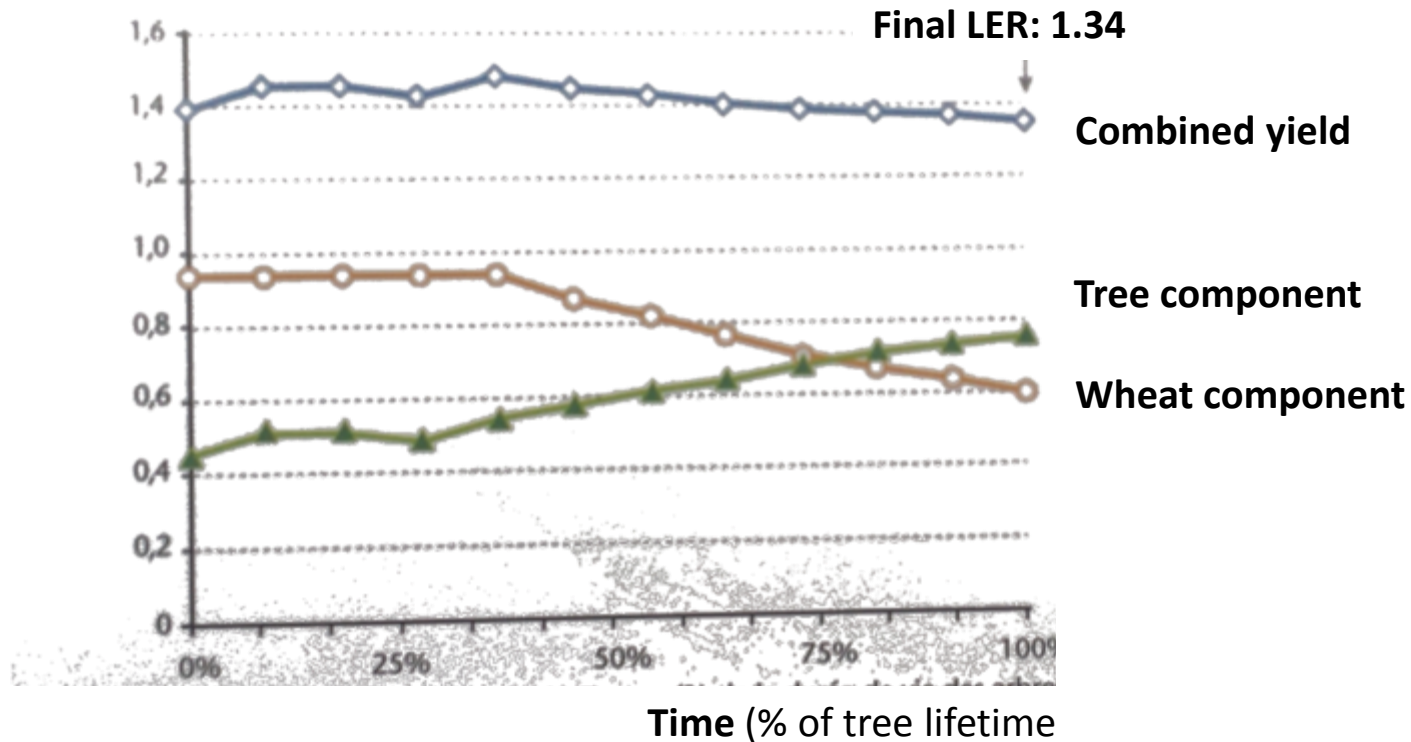
# Willow alley cropping (Wakelyns, UK)



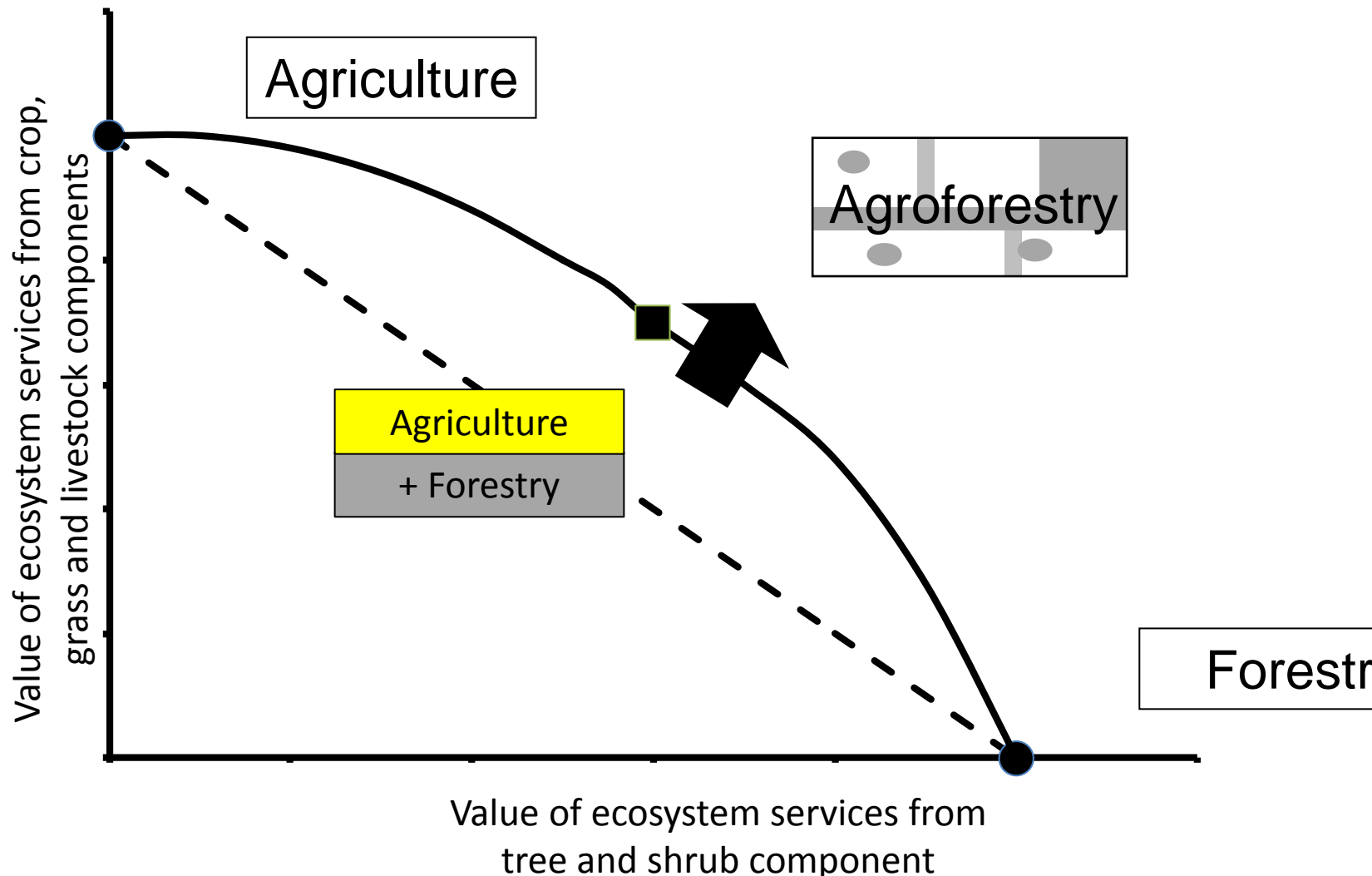
# Poplar-winter wheat, France

## Cumulative yields

(% of monocrop plots)



# Environmental LERs, too.



Source: C. Dupraz, F. Liagre, AGROOF

## Earth's annual ecological budget blown in just 8 months

The Global Footprint Network has declared August 19 as 'Earth Overshoot Day' - the point in 2014 where humanity has consumed more resources than the planet can regenerate in a year.

Only 14 per cent of the world lives in countries whose ecological footprint was less than what the national ecosystem could renew within the year; the remaining 86 per cent lived in ecological debt



Luxury facilities and the brightly lit skyline of Abu Dhabi, UAE. According to the Global Footprint Network, the Gulf state consumes 12 times more ecological resources than its national borders can support. Image: [S-F / Shutterstock.com](#)

Food & Agriculture

Waste Water

### REGION

Global Middle East

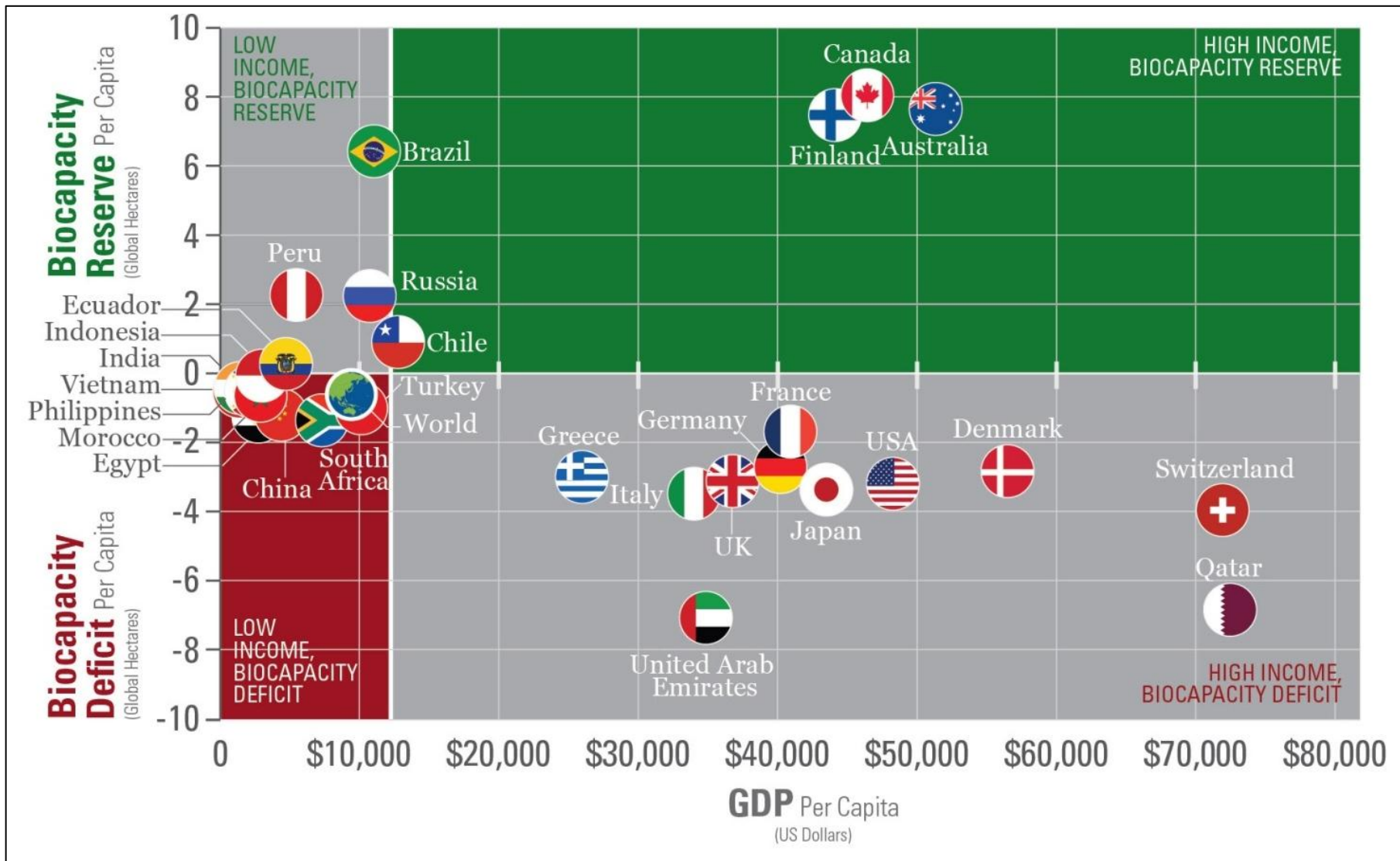
Philippines

### TAGS

energy intensity

ecosystem services

food security





***If this is the  
future...***



... then why this?

