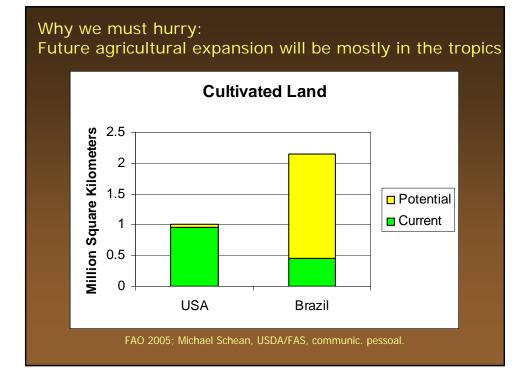


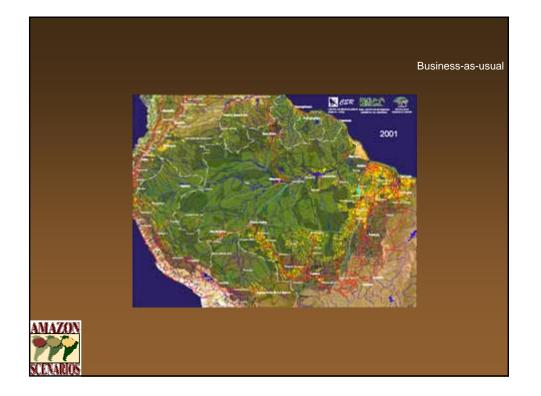
Topics:

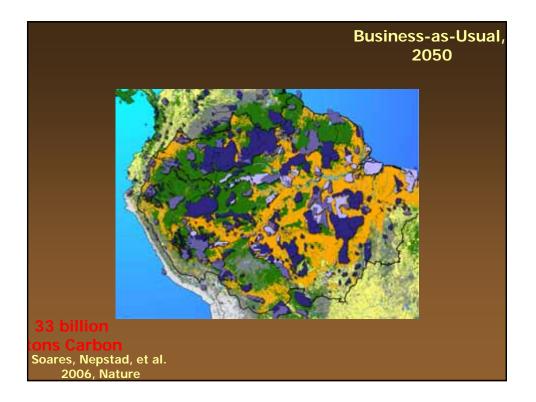
- •The tropical agriculture revolution
- •Tropical forests and carbon: the mega-service
- •Corporate risk & the reform of agroindustry
- •Rewarding farmers and
- ranchers for stewardship,
- indirectly

An agricultural revolution is upon us—the threat:

- Scarcity of land in the North
 Agro-industrial technologies for the humid tropics
 Rising oil prices & biofuels
 Emerging meat-eaters
- •Trade liberalization







Tropical forests and drought

1998 ENSO: 2 B tons from deforestation + 2 B tons from fire & drought
2005 N. Tropical Atlantic Anomaly: 2 B tons deforestation + 1 B tons fire & drought
In the 20XX ENSO/NTAA: 2.5 billion tons deforestation + 3 B tons fire & drought???

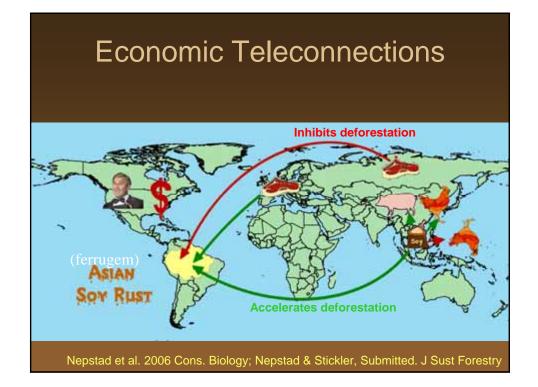
Tropical forests: essential to achieving a stable climate

- 420 billion tons carbon in tropical trees (50 years of emissions)
- 20-40 billion tons could be released by 2015 through deforestation, drought, and fire (2-5 years of emissions)
- Climate stability cannot be achieved without addressing the tropical forest source

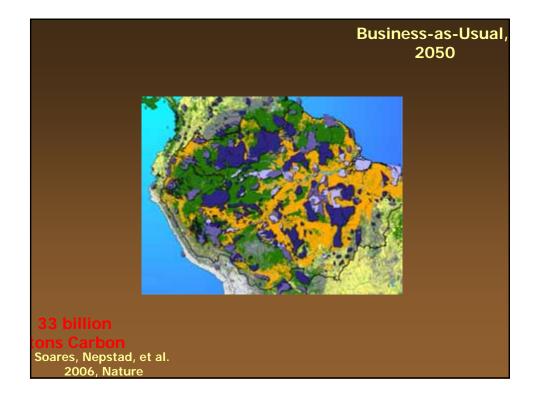


An agricultural revolution is upon us—the opportunity:

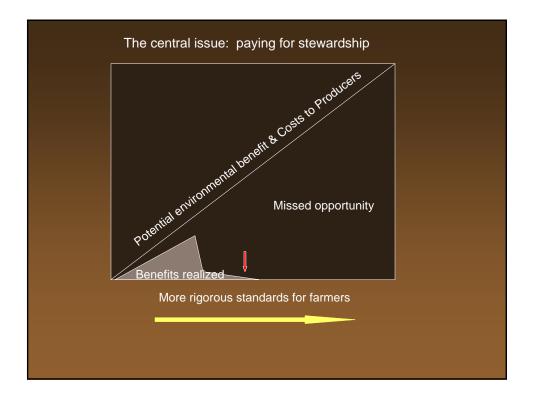
- •"Economic teleconnections"
- •Corporate risk avoidance =
- corporate responsibility
- •Equator banks
- •Agro-industrial certification

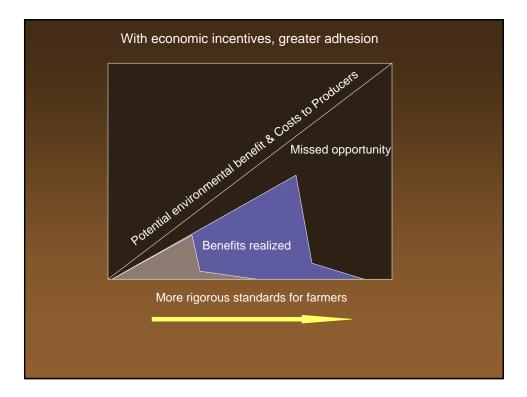












Why direct payments for ES will have limited success:

- •Difficult to measure
- •High transaction costs
- •Equity





Fazenda Tanguro: 82,000 ha (Grupo Maggi)

Riparian zone recovery

Reservoir management

Forest fire effects

Land use effects on water quality

Carbon flux

Fauna

Management of agrochemicals

Costs of best practices

"Cadastro de Compromisso Socioambiental" (Alianca da Terra, IPAM, WHRC)

Transparency (web-based)
Recognizing/rewarding responsible producers
"Pre-certification"
Open to all



"Cadastro de Compromisso Socioambiental": The Long Term Goal

•Certified regions, (similar to the aftosa-free regions)—competition among regions to demonstrate socio-environmental performance

Attached to government propertylevel monitoringIntegrated with sanitation and

labor practice monitoring

Conflict:

Fight Globalization? or Manage It?

Payments for Ecosystem Services or Transformation of Commerce?

In the great remaining tropical forests, direct payments for environmental services are likely to have a small impact on conservation.
But market forces, corporations' fear of risk, and new financing of reduced carbon emissions could leverage change