



Economics of deforestation

Introductory Meeting

Elías Cisneros

Agenda

- ▶ Introduction
- ▶ Topics
- ▶ Organization

Introduction

Causes & Consequences

- ▶ Economic causes
 - ▶ Subsistence farming
 - ▶ Population growth
 - ▶ Global demand for food products
 - ▶ Change in consumption patterns
 - ▶ Bio-diesel
 - ▶ Trade
 - ▶ Commodity speculations
 - ▶ ?
- ▶ Consequences
 - ▶ Biodiversity losses
 - ▶ Climate change
 - ▶ Nutrition
 - ▶ Infectious diseases
 - ▶ ?

Goals of the seminar

- ▶ Learn about a specific subject: deforestation
- ▶ Learn how to write a good seminar paper
 - ▶ **Formally correct** scientific writing
 - ▶ **Report** existing research
 - ▶ Broad literature survey
 - ▶ Critical survey of one paper
 - ▶ **Describe** it **structurally** & **evaluate critically** the study/methods/findings
 - ▶ **Define new research questions** and shows prospective avenues for research

Topics

Topics

1. Political causes
2. Consequences
3. Incentive policies
4. Disincentive policies

Political causes

- ▶ Burgess, R., M. Hansen, B. A. Olken, P. Potapov, and S. Sieber (2012): The political economy of deforestation in the tropics. *The Quarterly Journal of Economics* 127 (4): 1707–1754
- ▶ Alesina, A., C. Gennaioli, and S. Lovo (2019): Public goods and ethnic diversity: Evidence from deforestation in Indonesia. *Economica* 86 (341): 32–66
- ▶ Pailler, S. (2018): Re-election incentives and deforestation cycles in the Brazilian Amazon. *Journal of Environmental Economics and Management* 88: 345–365

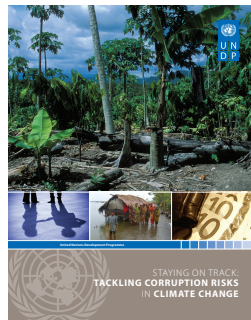


Image source: <https://www.interpol.int/es/Noticias-y-acontecimientos/Noticias/2016/Global-corruption-in-forestry-sector-worth-USD-29-billion-a-year-INTERPOL-report>, Accessed 12/04/2020.

Consequences

- ▶ Rasolofoson, R. A., M. M. Hanauer, A. Pappinen, B. Fisher, and T. H. Ricketts (2018): Impacts of forests on children's diet in rural areas across 27 developing countries. *Science Advances* 4 (8): eaat2853
- ▶ Macdonald, A. J. and E. A. Mordecai (2019): Amazon deforestation drives malaria transmission, and malaria burden reduces forest clearing. *Proceedings of the National Academy of Sciences* 116 (44): 22,212–22,218

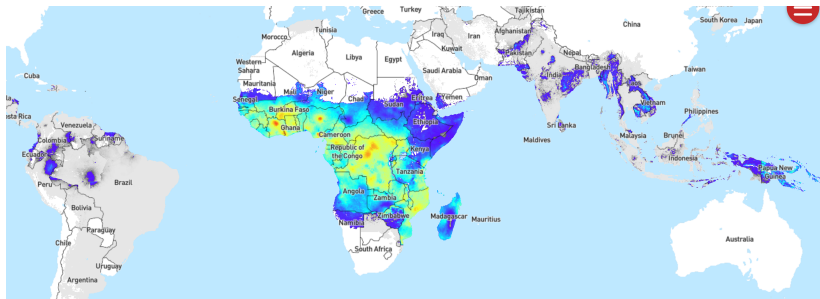
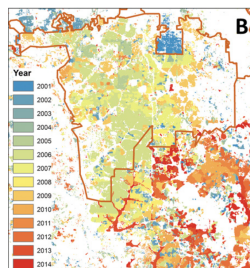
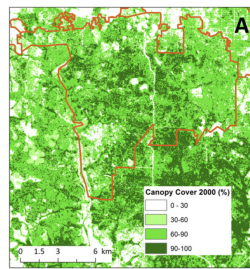


Image source: <https://malariaatlas.org/explorer>, Accessed 12/04/2020.

Incentive policies

- ▶ Alix-garcia, J. M., K. R. E. Sims, and P. Yañez-pagans (2015): Only one tree from each seed? Environmental effectiveness and poverty alleviation in Mexico's payments for ecosystem services program. *American Economic Journal: Economic Policy* 7 (4): 1–40
- ▶ Carlson, K. M., R. Heilmayr, H. K. Gibbs, P. Noojipady, D. N. Burns, D. C. Morton, N. F. Walker, G. D. Paoli, and C. Kremen (2017): Effect of oil palm sustainability certification on deforestation and fire in Indonesia. *Proceedings of the National Academy of Sciences* 115 (1): 121–126
- ▶ Jayachandran, S., J. De Laat, E. F. Lambin, C. Y. Stanton, R. Audy, and N. E. Thomas (2017): Cash for carbon: A randomized trial of payments for ecosystem services to reduce deforestation. *Science* 357 (6348): 267–273



Carlson et al. (2017)

Disincentive policies (2)

- ▶ Canavire-Bacarreza, G. and M. M. Hanauer (2013): Estimating the impacts of Bolivia's protected areas on poverty. *World Development* 41: 265–285
- ▶ Nolte, C., A. Agrawal, K. M. Silvius, and B. S. Soares-filho (2013): Governance regime and location influence avoided deforestation success of protected areas in the Brazilian Amazon. *Proceedings of the National Academy of Sciences* 110 (13): 4956–4961

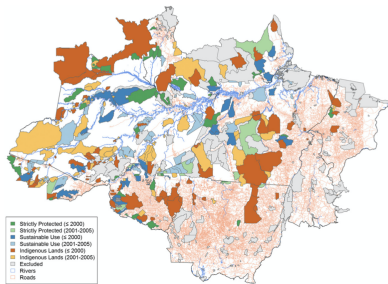


Fig. S1. Schematic map of the Brazilian Amazon protected areas included in this analysis. Excluded areas include protected areas established after 2005, Environmental Protection areas, and protected areas outside the humid forest tropical biome with less than 50% tree cover or with fewer than 200 forest patches in 2000. Data for this figure were provided by refs. 1 and 14.

Nolte et al. (2013)

Organization

Time schedule

	Event	Date	Time
Meeting	Introduction	Tuesday, April 21	10.00-12.00
	Application via StudIP closes	Thursday, April 23	10.00
	Self-selection into papers	Thursday, April 23	12.00
	Registration on FlexNow opens	Thursday, April 23	12.00
Meeting	Scientific writing	Tuesday, April 28	10.00-12.00
	Registration on FlexNow closes	Thursday, April 30	12.00
	Submit progress report	Tuesday, May 12	12.00
	Submit progress report slides	Thursday, May 14	12.00
Meeting	Progress report	Tuesday, May 19	10.00-14.00
	Send interesting tables	Thursday, June 4	12.00
Meeting	Regression tables	Tuesday, June 9	10.00-12.00
	Paper submission deadline	Sunday, June 28	23.59
	Send slides & video	Thursday, July 2	12.00
Meeting	Block seminar	Friday, July 10	9.00-18.00
	1-on-1 evaluation meetings	Tuesday, July 14	9.00-12.00

Scientific writing

- ▶ Scientific writing
 - ▶ How to search for literature
 - ▶ How to structure your paper
 - ▶ How to write a good paper
- ▶ Regression table training
 - ▶ How to read output tables in empirical papers
 - ▶ How to interpret estimation results/coefficients

Submissions

- ▶ Progress report
 - ▶ Exposé, outline (structure) and list of preferences
 - ▶ Exposé: Max. 2 pages, including research questions, motivation, methodology and structure
 - ▶ Deadline: 10.05.2020
- ▶ Seminar paper
 - ▶ 15 pages, 1 electronic copy, hand-in valid only upon receiving a confirmation, PDF!
 - ▶ Deadline: 28.06.2020

To be handed in to elias.cisneros@uni-goettingen.de

Presentations

- ▶ Progress report
 - ▶ 5 minutes presentation in small groups
 - ▶ Presentation of your exposé
 - ▶ 3 slides (1. research question, 2. structure, 3. references)
- ▶ Final presentation - recorded video
 - ▶ 20 minutes presentation per person (sharp!)
- ▶ Final presentation - short presentation
 - ▶ 5 minute summarizing presentation
 - ▶ Discussion based on notes and prepared questions

Next steps (1)

- ▶ Take a look at the papers in StudIP
- ▶ Application
 - ▶ Fill out the form on Google Docs [applicants-studIP.xlsx](#).
 - ▶ By the rules of the examination office preference is to be given to:
 - a) students of the faculty
 - b) students close to finishing their studies where the seminar is obligatory,
 - c) cases of previous illness,
 - d) students close to finishing their studies where the seminar is *not* obligatory
 - e) higher semester numbers
 - f) lottery
 - ▶ Unsuccessful applicants are excluded from StudIP

Next steps (2)

- ▶ Confirm course participation until Thursday 23.04.2020 at 10:00 (by signing in the StudIP group; sign out if decided otherwise)
- ▶ Pick your favorite paper
 - ▶ @StudIP: Teilnehmende → Gruppen
 - ▶ Open on Thursday 23.04.2020 12:00
 - ▶ **first-come-first-serve**
- ▶ Register on FlexNow after you picked your topic