




## Eric Lambin

George and Setsuko Ishiyama Provostial Professor and Senior Fellow at the Woods Institute for the Environment

Earth System Science

 Resume available Online

### Bio

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#### BIO

Eric Lambin, a geographer and environmental scientist, divides his time between the Université catholique de Louvain (Louvain-la-Neuve, Belgium) and Stanford University, where he occupies the Ishiyama Provostial Professorship at the School of Earth, Energy & Environmental Sciences and the Woods Institute for the Environment. His research tries to better understand causes and impacts of land use changes in different parts of the world. He was Chair of the international scientific project Land Use and Land Cover Change (LUCC) from 1999 to 2005. He was awarded the 2009 Francqui Prize, the 2014 Volvo Environment Prize, the 2019 Blue Planet Prize, and is Foreign Associate at the U.S. National Academy of Sciences. His current research tries to understand how globalization affects global land use, and how private and public regulations of land use interact to promote more sustainable land use practices.

#### ACADEMIC APPOINTMENTS

- Professor, Earth System Science
- Senior Fellow, Stanford Woods Institute for the Environment

#### ADMINISTRATIVE APPOINTMENTS

- George and Setsuko Ishiyama Provostial Professor, Stanford University, (2010- present)
- Fellow, Center for Advanced Studies in the Behavioral Sciences, Stanford University, (2002-2003)
- Professor, University of Louvain, Belgium, (1995- present)
- Expert, Joint Research Center (Ispra, Italy), European Commission, European Commission, (1993-1995)
- Assistant professor, Boston University, (1991-1993)

#### HONORS AND AWARDS

- Blue Planet Prize, Asahi Glass Foundation, Japan (2019)
- Beijer Fellow, Beijer Institute of Ecological Economics, The Royal Swedish Academy of Sciences, Stockholm, Sweden (2016)
- Honorary degree “Doctor rerum naturalium honoris causa”, Faculty of Mathematics and Natural Sciences, Humboldt-Universität zu Berlin, Germany (2016)
- Highly Cited Researcher, Thomson Reuters (2014)
- Volvo Environment Prize, Volvo Environment Prize Foundation, The Royal Swedish Academy of Sciences (2014)
- Fellow, European Academy of Sciences (2010)
- Member, Academia Europaea (2010)
- Prix du livre Environnement pour “Une Ecologie du Bonheur”, Veolia (2010)
- Foreign Associate, U.S. National Academy of Sciences (2009)
- Francqui prize in Sciences, Francqui Foundation (2009)

- Membre, Académie Royale des sciences, des lettres & des beaux-arts de Belgique (2006)
- Chair, Land-Use & Land-Cover Change (LUCC) project of the IGBP and IHDP (1999 - 2005)

## **BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS**

- Member of the Editorial Board, Global Sustainability (2016 - present)
- Member of the Board of Directors, Beijer Institute of Ecological Economics, Stockholm (2011 - 2017)
- Review Editor, Global Assessment of Biodiversity and Ecosystem Services Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services (IPBES) (2017 - 2018)
- Member of the Research Council, University of Louvain (2006 - 2009)
- Co-Chair of Department, Environmental Earth System Science, Stanford University (2013 - 2016)
- Member of the Editorial Board, Global Environmental Change (2004 - 2015)
- Member of the External Advisory Board, National Socio-Environmental Synthesis Center (SESYNC), USA (2012 - 2013)
- Associate Editor, Ecology and Society: A journal of integrative science for resilience and sustainability (2005 - present)
- Member of the Steering Committee, Global Terrestrial Observing System (2005 - 2010)
- Member of the Science Advisory Committee, International Institute for Applied Systems Analysis (IIASA), Laxenburg, Austria (2004 - 2011)
- Member of the Editorial Board, Frontiers in Ecology and the Environment (2002 - 2006)
- Member of the Editorial Board, Ecosystems (2001 - 2004)
- Chair of Department, Geography and Geology, University of Louvain (2000 - 2003)

## **PROGRAM AFFILIATIONS**

- Center for East Asian Studies

## **PROFESSIONAL EDUCATION**

- PhD, University of Louvain, Belgium , Sciences, Geography (1988)
- M.S., University of Louvain, Belgium , Geography (1985)
- B.A., University of Louvain, Belgium , Philosophy (1985)

## **LINKS**

- Spatial Analysis Center: <https://pangea.stanford.edu/researchgroups/sac/>

## **Research & Scholarship**

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### **CURRENT RESEARCH AND SCHOLARLY INTERESTS**

My research aims at better understanding the causes and impacts of land use changes both globally and in ‘hot spots’ of environmental change. I work at the interface between natural and social sciences. I am conducting a number of land system change studies in different parts of the world using methods that link remote sensing data with socio-economic data. My research reveals cross-scale dynamics causing tropical deforestation, forest transitions, and dryland degradation. My research is focused on solutions for sustainable land use and has implications for land use governance.

My research uses original approaches to link geo-referenced socio-economic data with biophysical data to better understand the causes of land use change and their impacts on ecosystem attributes. Methods linking “people to pixels” (i.e., joint statistical analysis of fine resolution remote sensing data with geo-referenced, detailed household survey data) allow for a spatial disaggregation of land use studies at the level of decision-making agents. This has led to a new understanding of the complexity of land change processes. My research also investigates human and ecosystem responses to land change. Social and ecological feedbacks of land use change are sources of non-linear dynamics and land-use transitions. With my research team, we conduct detailed analyses of the main cases of contemporary forest transitions,

whereby a country shifts from net deforestation to net reforestation. Our research on Vietnam, Bhutan, Chile, Costa Rica provided a rich understanding of how to “bend the curve” in land use. Several generic pathways leading to forest transitions were identified.

This research on forest transitions also revealed something quite unexpected: all countries that protected their forests and reversed deforestation simultaneously increased their imports of wood and agricultural products from other countries. They were thus all off-shoring their deforestation to other countries by displacing their land use beyond their borders. This latter discovery led to new research projects on the link between economic globalization and land use, which is now referred to as “telecoupling”.

A major policy implication of these findings is that national land use policies alone were not sufficient to achieve global forest conservation, given a leakage (or geographic displacement) of land use change to other places. The next logical step was thus to analyze how the governance of global supply chains in agricultural and forestry products could lead to more sustainable land use. With my team, we then conducted a series of evaluations of the effectiveness of eco-certification schemes and sustainable sourcing commitments by the private sector. These were among the very first studies analyzing empirically, using the most rigorous methods, the impact of supply chain interventions on land use. One of the key finding was that the effectiveness of a private governance of land use depends on supportive public policies. One of our current contributions is thus to analyze systematically the interactions between governments, NGOs, and companies for the design and implementation of interventions for sustainable land use.

I have supervised many PhD students and postdocs, with 32 PhDs completed so far under my supervision, and five current PhD students. Many of my past graduate students have become highly productive scholars in top universities. Others occupy key science or policy positions.

## Teaching

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### COURSES

#### 2019-20

- Analyzing land use in a globalized world: ESS 170, ESS 270 (Spr)
- From Freshwater to Oceans to Land Systems: An Earth System Perspective to Global Challenges: ESS 306 (Win)

#### 2018-19

- Analyzing land use in a globalized world: ESS 170, ESS 270 (Spr)
- From Freshwater to Oceans to Land Systems: An Earth System Perspective to Global Challenges: ESS 306 (Win)

#### 2017-18

- Analyzing land use in a globalized world: ESS 170, ESS 270 (Spr)
- From Freshwater to Oceans to Land Systems: An Earth System Perspective to Global Challenges: ESS 306 (Win)

#### 2016-17

- From Freshwater to Oceans to Land Systems: An Earth System Perspective to Global Challenges: ESS 306 (Win)

### STANFORD ADVISEES

#### Doctoral Dissertation Reader (AC)

Hajin Kim

#### Postdoctoral Faculty Sponsor

Shivani Agarwal, Paul Furumo

#### Doctoral Dissertation Advisor (NonAC)

Laura Bloomfield

**Doctoral Dissertation Co-Advisor (AC)**

Nic Buckley Biggs

**Doctoral (Program)**

Briana Swette, Marius von Essen

## Publications

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### PUBLICATIONS

- **Transnational corporations and the challenge of biosphere stewardship.** *Nature ecology & evolution*  
Folke, C., Osterblom, H., Jouffray, J., Lambin, E. F., Adger, W. N., Scheffer, M., Crona, B. I., Nystrom, M., Levin, S. A., Carpenter, S. R., Anderies, J. M., Chapin, S. 3., Crepin, et al  
2019
- **The Restructuring of South American Soy and Beef Production and Trade Under Changing Environmental Regulations** *WORLD DEVELOPMENT*  
de Waroux, Y., Garrett, R. D., Graesser, J., Nolte, C., White, C., Lambin, E. F.  
2019; 121: 188–202
- **Health Beliefs of American Indian Imagery on Natural American Spirit Packs** *TOBACCO REGULATORY SCIENCE*  
Epperson, A. E., Henriksen, L., Lambin, E. F., Prochaska, J. J., Flora, J. A.  
2019; 5 (4): 369–80
- **Lack of association between deforestation and either sustainability commitments or fines in private concessions in the Peruvian Amazon** *FOREST POLICY AND ECONOMICS*  
Anderson, C. M., Asner, G. P., Lambin, E. F.  
2019; 104: 1–8
- **Governing flows in telecoupled land systems** *CURRENT OPINION IN ENVIRONMENTAL SUSTAINABILITY*  
Munroe, D. K., Batistella, M., Friis, C., Gasparri, N., Lambin, E. F., Liu, J., Meyfroidt, P., Moran, E., Nielsen, J.  
2019; 38: 53–59
- **Geographical heterogeneity in mountain grasslands dynamics in the Austrian-Italian Tyrol region** *APPLIED GEOGRAPHY*  
Hinojosa, L., Tasser, E., Ruedisser, J., Leitinger, G., Schermer, M., Lambin, E. F., Tappeiner, U.  
2019; 106: 50–59
- **Oil palm expansion and deforestation in Southwest Cameroon associated with proliferation of informal mills** *NATURE COMMUNICATIONS*  
Ordway, E. M., Naylor, R. L., Nkongho, R. N., Lambin, E. F.  
2019; 10
- **Natural American Spirit's pro-environment packaging and perceptions of reduced-harm cigarettes.** *Preventive medicine*  
Epperson, A. E., Lambin, E. F., Henriksen, L., Baiocchi, M., Flora, J. A., Prochaska, J. J.  
2019: 105782
- **Overlapping land allocations reduce deforestation in Peru** *LAND USE POLICY*  
Anderson, C. M., Asner, G. P., Llactayo, W., Lambin, E. F.  
2018; 79: 174–78
- **The demise of caterpillar fungus in the Himalayan region due to climate change and overharvesting** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
Hopping, K. A., Chignell, S. M., Lambin, E. F.  
2018; 115 (45): 11489–94
- **Impacts of shaded agroforestry management on carbon sequestration, biodiversity and farmers income in cocoa production landscapes** *LANDSCAPE ECOLOGY*  
Middendorp, R. S., Vanacker, V., Lambin, E. F.  
2018; 33 (11): 1953–74

- **Europe's renewable energy directive poised to harm global forests** *NATURE COMMUNICATIONS*  
Searchinger, T. D., Beringer, T., Holtsmark, B., Kammen, D. M., Lambin, E. F., Lucht, W., Raven, P., van Ypersele, J.  
2018; 9: 3741
- **Challenges in Attributing Avoided Deforestation to Policies and Actors: Lessons From Provincial Forest Zoning in the Argentine Dry Chaco** *ECOLOGICAL ECONOMICS*  
Nolte, C., Gobbi, B., de Waroux, Y., Piquer-Rodriguez, M., Butsic, V., Lambin, E. F.  
2018; 150: 346–52
- **Impact of land-use zoning for forest protection and production on forest cover changes in Bhutan** *APPLIED GEOGRAPHY*  
Bruggeman, D., Meyfroidt, P., Lambin, E. F.  
2018; 96: 153–65
- **Constraints to farming in the Mediterranean Alps: Reconciling environmental and agricultural policies** *LAND USE POLICY*  
Hinojosa, L., Lambin, E. F., Mzoughi, N., Napoleone, C.  
2018; 75: 726–33
- **Companies' contribution to sustainability through global supply chains** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
Thorlakson, T., de Zegher, J. F., Lambin, E. F.  
2018; 115 (9): 2072–77
- **The role of supply-chain initiatives in reducing deforestation** *NATURE CLIMATE CHANGE*  
Lambin, E. F., Gibbs, H. K., Heilmayr, R., Carlson, K. M., Fleck, L. C., Garrett, R. D., de Waroux, Y., McDermott, C. L., McLaughlin, D., Newton, P., Nolte, C., Pacheco, P., Rausch, et al  
2018; 8 (2): 109–16
- **Smallholders at a Crossroad: Intensify or Fall behind? Exploring Alternative Livelihood Strategies in a Globalized World** *BUSINESS STRATEGY AND THE ENVIRONMENT*  
Rueda, X., Paz, A., Gibbs-Plessl, T., Leon, R., Moyano, B., Lambin, E. F.  
2018; 27 (2): 215–29
- **Improving environmental practices in agricultural supply chains: The role of company-led standards** *GLOBAL ENVIRONMENTAL CHANGE-HUMAN AND POLICY DIMENSIONS*  
Thorlakson, T., Hainmueller, J., Lambin, E. F.  
2018; 48: 32–42
- **Sustainability Standards: Interactions Between Private Actors, Civil Society, and Governments** *ANNUAL REVIEW OF ENVIRONMENT AND RESOURCES, VOL 43*  
Lambin, E. F., Thorlakson, T., Gadgil, A., Tomich, T. P.  
2018; 43: 369–93
- **Smallholder telecoupling and potential sustainability** *ECOLOGY AND SOCIETY*  
Zimmerer, K. S., Lambin, E. F., Vanek, S. J.  
2018; 23 (1)
- **Oil palm expansion in Cameroon: Insights into sustainability opportunities and challenges in Africa** *GLOBAL ENVIRONMENTAL CHANGE-HUMAN AND POLICY DIMENSIONS*  
Ordway, E. M., Naylor, R. L., Nkongho, R. N., Lambin, E. F.  
2017; 47: 190–200
- **Cash for carbon: A randomized trial of payments for ecosystem services to reduce deforestation** *SCIENCE*  
Jayachandran, S., De laet, J., Lambin, E. F., Stanton, C. Y., Audy, R., Thomas, N. E.  
2017; 357 (6348): 267–73
- **Interacting effects of land use and climate on rodent-borne pathogens in central Kenya** *PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY B-BIOLOGICAL SCIENCES*  
Young, H. S., McCauley, D. J., Dirzo, R., Nunn, C. L., Campana, M. G., Agwanda, B., Otarola-Castillo, E. R., Castillo, E. R., Pringle, R. M., Veblen, K. E., Salkeld, D. J., Stewardson, K., Fleischer, et al  
2017; 372 (1722)

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- **Decentralized Land Use Zoning Reduces Large-scale Deforestation in a Major Agricultural Frontier** *ECOLOGICAL ECONOMICS*  
Nolte, C., Gobbi, B., de Waroux, Y. I., Piquer-Rodriguez, M., Butsic, V., Lambin, E. F.  
2017; 136: 30-40
  - **Deforestation risk due to commodity crop expansion in sub-Saharan Africa** *ENVIRONMENTAL RESEARCH LETTERS*  
Ordway, E. M., Asner, G. P., Lambin, E. F.  
2017; 12 (4)
  - **Conditions influencing the adoption of effective anti-deforestation policies in South America's commodity frontiers** *GLOBAL ENVIRONMENTAL CHANGE-HUMAN AND POLICY DIMENSIONS*  
Nolte, C., de Waroux, Y. I., Munger, J., Reis, T. N., Lambin, E. F.  
2017; 43: 1-14
  - **The Challenges of Applying Planetary Boundaries as a Basis for Strategic Decision-Making in Companies with Global Supply Chains** *SUSTAINABILITY*  
Clift, R., Sim, S., King, H., Chenoweth, J. L., Christie, I., Clavreul, J., Mueller, C., Posthuma, L., Boulay, A., Chaplin-Kramer, R., Chatterton, J., DeClerck, F., Druckman, et al  
2017; 9 (2)
  - **Corporate investments in supply chain sustainability: Selecting instruments in the agri-food industry** *JOURNAL OF CLEANER PRODUCTION*  
Rueda, X., Garrett, R. D., Lambin, E. F.  
2017; 142: 2480-2492
  - **Place attachment as a factor of mountain farming permanence: A survey in the French Southern Alps** *ECOLOGICAL ECONOMICS*  
Hinojosa, L., Lambin, E. F., Mzoughi, N., Napoleone, C.  
2016; 130: 308-315
  - **A plantation-dominated forest transition in Chile** *APPLIED GEOGRAPHY*  
Heilmayr, R., Echeverria, C., Fuentes, R., Lambin, E. F.  
2016; 75: 71-82
  - **The potential to restore native woody plant richness and composition in a reforesting landscape: a modeling approach in the Ecuadorian Andes** *LANDSCAPE ECOLOGY*  
Middendorp, R. S., Perez, A. J., Molina, A., Lambin, E. F.  
2016; 31 (7): 1581-1599
  - **Land-use policies and corporate investments in agriculture in the Gran Chaco and Chiquitano** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
de Waroux, Y. I., Garrett, R. D., Heilmayr, R., Lambin, E. F.  
2016; 113 (15): 4021-4026
  - **The "mountain effect" in the abandonment of grasslands: Insights from the French Southern Alps** *AGRICULTURE ECOSYSTEMS & ENVIRONMENT*  
Hinojosa, L., Napoleone, C., Moulery, M., Lambin, E. F.  
2016; 221: 115-124
  - **Impacts of nonstate, market-driven governance on Chilean forests** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
Heilmayr, R., Lambin, E. F.  
2016; 113 (11): 2910-2915
  - **International trade, and land use intensification and spatial reorganization explain Costa Rica's forest transition** *ENVIRONMENTAL RESEARCH LETTERS*  
Jadin, I., Meyfroidt, P., Lambin, E. F.  
2016; 11 (3)
  - **Forest cover changes in Bhutan: Revisiting the forest transition** *APPLIED GEOGRAPHY*  
Bruggeman, D., Meyfroidt, P., Lambin, E. F.  
2016; 67: 49-66
  - **Forest protection and economic development by offshoring wood extraction: Bhutan's clean development path** *REGIONAL ENVIRONMENTAL CHANGE*  
Jadin, I., Meyfroidt, P., Lambin, E. F.  
2016; 16 (2): 401-415

- **"I know, therefore I adapt?" Complexities of individual adaptation to climate-induced forest dieback in Alaska** *ECOLOGY AND SOCIETY*  
Oakes, L. E., Ardoin, N. M., Lambin, E. F.  
2016; 21 (2)
- **Reply to Levine-Schnur: Decisions to deforest illegally are influenced by fines and their perceived enforcement probability.** *Proceedings of the National Academy of Sciences of the United States of America*  
le Polain de Waroux, Y., Garrett, R. D., Heilmayr, R., Lambin, E. F.  
2016; 113 (25): E3469
- **Conservation in a social-ecological system experiencing climate-induced tree mortality** *BIOLOGICAL CONSERVATION*  
Oakes, L. E., Hennon, P. E., Ardoin, N. M., D'Amore, D. V., Ferguson, A. J., Steel, E. A., Wittwer, D. T., Lambin, E. F.  
2015; 192: 276-285
- **Ecosystem service information to benefit sustainability standards for commodity supply chains.** *Annals of the New York Academy of Sciences*  
Chaplin-Kramer, R., Jonell, M., Guerry, A., Lambin, E. F., Morgan, A. J., Pennington, D., Smith, N., Franch, J. A., Polasky, S.  
2015; 1355 (1): 77-97
- **Disease Risk & Landscape Attributes of Tick-Borne Borrelia Pathogens in the San Francisco Bay Area, California** *PLOS ONE*  
Salkeld, D. J., Nieto, N. C., Carbajales-Dale, P., Carbajales-Dale, M., Cinkovich, S. S., Lambin, E. F.  
2015; 10 (8)
- **Effects of Land Use on Plague (Yersinia pestis) Activity in Rodents in Tanzania** *AMERICAN JOURNAL OF TROPICAL MEDICINE AND HYGIENE*  
McCauley, D. J., Salkeld, D. J., Young, H. S., Makundi, R., Dirzo, R., Eckerlin, R. P., Lambin, E. F., Gaffikin, L., Barry, M., Helgen, K. M.  
2015; 92 (4): 776-783
- **An agenda for assessing and improving conservation impacts of sustainability standards in tropical agriculture** *CONSERVATION BIOLOGY*  
Milder, J. C., Arbuthnot, M., Blackman, A., Brooks, S. E., Giovannucci, D., Gross, L., Kennedy, E. T., Komives, K., Lambin, E. F., Lee, A., Meyer, D., Newton, P., Phalan, et al  
2015; 29 (2): 309-320
- **Eco-certification and coffee cultivation enhance tree cover and forest connectivity in the Colombian coffee landscapes** *REGIONAL ENVIRONMENTAL CHANGE*  
Rueda, X., Thomas, N. E., Lambin, E. F.  
2015; 15 (1): 25-33
- **Synchronous failure: the emerging causal architecture of global crisis** *ECOLOGY AND SOCIETY*  
Homer-Dixon, T., Walker, B., Biggs, R., Crepin, A., Folke, C., Lambin, E. F., Peterson, G. D., Rockstoem, J., Scheffer, M., Steffen, W., Troell, M.  
2015; 20 (3)
- **Disease Risk & Landscape Attributes of Tick-Borne Borrelia Pathogens in the San Francisco Bay Area, California.** *PloS one*  
Salkeld, D. J., Nieto, N. C., Carbajales-Dale, P., Carbajales-Dale, M., Cinkovich, S. S., Lambin, E. F.  
2015; 10 (8)
- **Impacts of forest cover change on ecosystem services in high Andean mountains** *ECOLOGICAL INDICATORS*  
Balthazar, V., Vanacker, V., Molina, A., Lambin, E. F.  
2015; 48: 63-75
- **The effectiveness of marked-based instruments to foster the conservation of extensive land use: The case of Geographical Indications in the French Alps** *LAND USE POLICY*  
Lamarque, P., Lambin, E. F.  
2015; 42: 706-717
- **Production forests as a conservation tool: Effectiveness of Cameroon's land use zoning policy** *LAND USE POLICY*  
Bruggeman, D., Meyfroidt, P., Lambin, E. F.  
2015; 42: 151-164
- **Global assessment of urban and peri-urban agriculture: irrigated and rainfed croplands** *ENVIRONMENTAL RESEARCH LETTERS*  
Thebo, A. L., Drechsel, P., Lambin, E. F.  
2014; 9 (11)

- **Effectiveness and synergies of policy instruments for land use governance in tropical regions** *GLOBAL ENVIRONMENTAL CHANGE-HUMAN AND POLICY DIMENSIONS*  
Lambin, E. F., Meyfroidt, P., Rueda, X., Blackman, A., Boerner, J., Cerutti, P. O., Dietsch, T., Jungmann, L., Lamarque, P., Lister, J., Walker, N. F., Wunder, S.  
2014; 28: 129-140
- **Implementing REDD plus (Reducing Emissions from Deforestation and Degradation): evidence on governance, evaluation and impacts from the REDD-ALERT project** *MITIGATION AND ADAPTATION STRATEGIES FOR GLOBAL CHANGE*  
Matthews, R. B., van Noordwijk, M., Lambin, E., Meyfroidt, P., Gupta, J., Verchot, L., Hergoualc'h, K., Veldkamp, E.  
2014; 19 (6): 907-925
- **Agent-based modeling of hunting and subsistence agriculture on indigenous lands: Understanding interactions between social and ecological systems** *ENVIRONMENTAL MODELLING & SOFTWARE*  
Iwamura, T., Lambin, E. F., Silvius, K. M., Luzar, J. B., Fragoso, J. M.  
2014; 58: 109-127
- **COMMENTARY: Climate engineering reconsidered** *NATURE CLIMATE CHANGE*  
Barrett, S., Lenton, T. M., Millner, A., Tavoni, A., Carpenter, S., Anderies, J. M., Chapin, F. S., Crepin, A., Daily, G., Ehrlich, P., Folke, C., Galaz, V., Hughes, et al  
2014; 4 (7): 527-529
- **Multiple pathways of commodity crop expansion in tropical forest landscapes** *ENVIRONMENTAL RESEARCH LETTERS*  
Meyfroidt, P., Carlson, K. M., Fagan, M. E., Gutierrez-Velez, V. H., Macedo, M. N., Curran, L. M., DeFries, R. S., Dyer, G. A., Gibbs, H. K., Lambin, E. F., Morton, D. C., Robiglio, V.  
2014; 9 (7)
- **Beyond local climate: rainfall variability as a determinant of household nonfarm activities in contemporary rural Burkina Faso** *CLIMATE AND DEVELOPMENT*  
D'haen, S. A., Nielsen, J. O., Lambin, E. F.  
2014; 6 (2): 144-165
- **Beyond local climate: rainfall variability as a determinant of household nonfarm activities in contemporary rural Burkina Faso** *Climate and Development*  
D'Haen, S., Nielsen, J., Lambin, E. F.  
2014: 1-22
- **Significance of Telecoupling for Exploration of Land-Use Change** *14th Ernst Strngmann Forum*  
Eakin, H., DeFries, R., Kerr, S., Lambin, E. F., Liu, J., Marcotullio, P. J., Messerli, P., Reenberg, A., Rueda, X., Swaffield, S. R., Wicke, B., Zimmerer, K.  
MIT PRESS.2014: 141-161
- **Trends in Global Land-Use Competition** *14th Ernst Strngmann Forum*  
Lambin, E. F., Meyfroidt, P.  
MIT PRESS.2014: 11-22
- **Scenarios on future land changes in the West African Sahel** *GEOGRAFISK TIDSSKRIFT-DANISH JOURNAL OF GEOGRAPHY*  
Lambin, E. F., D'haen, S. A., Mertz, O., Nielsen, J. O., Rasmussen, K.  
2014; 114 (1): 76-83
- **Global agriculture and land use changes in the 21st century: Achieving a balance between food security, urban diets and nature conservation** *The Evolving Sphere of Food Security (in press)*  
Rueda, X., Lambin, E. F.  
edited by Naylor, R.  
Oxford University Press.2014
- **Estimating the world's potentially available cropland using a bottom-up approach** *GLOBAL ENVIRONMENTAL CHANGE-HUMAN AND POLICY DIMENSIONS*  
Lambin, E. F., Gibbs, H. K., Ferreira, L., Grau, R., Mayaux, P., Meyfroidt, P., MORTON, D. C., Rudel, T. K., Gasparri, I., Munger, J.  
2013; 23 (5): 892-901
- **Globalization's unexpected impact on soybean production in South America: linkages between preferences for non-genetically modified crops, eco-certifications, and land use** *ENVIRONMENTAL RESEARCH LETTERS*  
Garrett, R. D., Rueda, X., Lambin, E. F.



2013; 8 (4)

- **Globalization of land use: distant drivers of land change and geographic displacement of land use** *CURRENT OPINION IN ENVIRONMENTAL SUSTAINABILITY*  
Meyfroidt, P., Lambin, E. F., Erb, K., Hertel, T. W.  
2013; 5 (5): 438-444
- **The new economic geography of land use change: Supply chain configurations and land use in the Brazilian Amazon** *LAND USE POLICY*  
Garrett, R. D., Lambin, E. F., Naylor, R. L.  
2013; 34: 265-275
- **Niche Commodities and Rural Poverty Alleviation: Contextualizing the Contribution of Argan Oil to Rural Livelihoods in Morocco** *ANNALS OF THE ASSOCIATION OF AMERICAN GEOGRAPHERS*  
de Waroux, Y. I., Lambin, E. F.  
2013; 103 (3): 589-607
- **Land institutions and supply chain configurations as determinants of soybean planted area and yields in Brazil** *LAND USE POLICY*  
Garrett, R. D., Lambin, E. F., Naylor, R. L.  
2013; 31: 385-396
- **Linking Globalization to Local Land Uses: How Eco-Consumers and Gourmands are Changing the Colombian Coffee Landscapes** *WORLD DEVELOPMENT*  
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