

# Land-use changes: monitoring by remote sensing and integrated modelling

## SENIOR SCIENTIST:

▶ Eric LAMBIN

## Research Field and Subjects

We specialize in land-use and land-cover change research. We use earth observation by satellite to monitor and model tropical deforestation, forest transitions, and dryland degradation in tropical regions mostly.

## Representative References

- ▶ GEIST H. and LAMBIN E.F., Proximate causes and underlying driving forces of tropical deforestation. *Bioscience*, Vol. 52, Nr.2, pp. 143-150, **2002**.
- ▶ LINDERMAN M., ROMAN P., BENZ D., SERNEELS S. and LAMBIN E.F., Land-cover change and vegetation dynamics across Africa, *Journal of Geophysical Research*, vol. 110, no. D12, D12104, **2005**.
- ▶ REYNOLDS J.F., MARK STAFFORD SMITH D., LAMBIN E.F., TURNER B.L. II et al., Global Desertification: Building a Science for Dryland Development, *Science*, Vol. 316, March 11<sup>th</sup>, pp. 847-851, **2007**.
- ▶ ROCKSTRÖM J., STEFFEN W., NOONE K., PERSSON A., CHAPIN F.S. III, LAMBIN E.F. et al., A safe operating space for humanity, *Nature*, Vol. 461, no. 24, pp. 472-475. **2009**.
- ▶ MEYFRÖDT P. and LAMBIN E.F., Forest transition in Vietnam and displacement of wood extraction abroad. *Proceedings of the National Academy of Sciences*, vol. 106, pp. 16139-16144, **2009**.

## Awards

- ▶ Prix Francqui 2009
- ▶ Foreign Associate of the U.S. National Academy of Sciences
- ▶ Membre de l'Académie Royale des sciences, des lettres & des beaux-arts de Belgique
- ▶ 2009 Sustainability Science Award from the Ecological Society of America

## Funding

- ▶ EC FP7
- ▶ Belspo

## Partnership

- ▶ Stanford University
- ▶ Humboldt University
- ▶ Joint Research Center, Ispra

## Main Equipment

- ▶ Computing for image processing and geographic information systems

**KEY WORDS**

Land change  
Remote sensing  
Tropical forests  
Drylands

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