

# International Symposium – Final Workshop CRC 990

*Ecological and socioeconomic functions of tropical lowland rainforest transformation systems (Sumatra, Indonesia)*

**23–24 March, 2015**    ZHG / Hörsaal 105



## PROGRAM

**Monday, March 23**

*Welcome Address*

- 9.15–9.20    Prof. Reiner Finkeldey, Vice President University of Göttingen  
9.20–9.30    Prof. Stefan Scheu, Speaker CRC 990

### **Opening**    *Chair: Stefan Scheu*

- 9.30–10.15    Brian Moss, University of Liverpool  
*"Tropical forests, water, conservation and climate change: all things are connected"*
- 10.15–10.40    Yann Clough, Lund University  
*"Land-use choices and impacts on ecosystem processes and services in smallholder landscapes of Sumatra, Indonesia"*

10.40–11.10    **Coffee break**

### **Environmental Processes**    *Chair: Edzo Veldkamp*

- 11.10–11.30    Alexander Knohl & Siria Biagioni, University of Göttingen  
*"Effects of tropical land transformation on biogeochemical processes"*
- 11.30–12.30    Alexander Röhl, Ana Mejjide, Afik Hardanto, Dirk Hölscher, Tania June, Alexander Knohl, Niu Furong  
*"Water Cycle"*
- Thomas Guillaume, Ana Mejjide, Marife Corre, Muhammad Damris, Alexander Knohl, Yakov Kuzyakov, Evelyn Hassler, Edzo Veldkamp  
*"Carbon Cycle"*
- Kara Allen & Syahrul Kurniawan, Hermann Behling, Siria Biagioni, Marife Corre, Amanda Matson, Aiyen Tjoa, Edzo Veldkamp  
*"Nitrogen Cycle"*
- Tania June, Dodo Gunawan, Abdul Rauf, Ana Mejjide, Alexander Knohl  
*"Implication of forest transformation to oil palm on surface biophysical parameters and climate"*

12.30–13.30 **Lunch**

13.30–14.30 Poster presentations

**Ecosystem Services** *Chair: Alexander Knohl*

14.30–15.15 Jaboury Ghazoul, ETH Zürich (Key note)

*“The insecurity of ecosystem services”*

15.15–15.40 Stefan Schwarze, University of Göttingen

*“Quantifying the effects of spatial and temporal variability on ecological and socioeconomic functions”*

15.40–16.10 Kerstin Wiegand, Claudia Dislich, Elisabeth Hettig, Johannes Heinonen, Jann Lay, Katrin Meyer, Fuad Nurdiansyah, Ernani Rustiadi, Sunarti, Surya Tarigan, Alinda Zain *“Landscape-level assessment of ecological and socio-economic functions of rainforest transformation systems in Sumatra (Indonesia) – an agent-based model of land-use change”*

Surya Tarigan *“Quantifying empirical relation between land use types and ecosystem services of water flow regulation in tropical rainforest transformation system, Jambi Province, Indonesia”*

16.10–16.40 **Coffee break**

**Biodiversity** *Chair: Teja Tschardt*

16.40–17.55 Andrew Barnes, Ulrich Brose, Achmad Farajallah, Noor Farikhah Haneda, Malte Jochum, Bernhard Klarner, Valentyna Krashevskaya, Stefan Scheu, Tri Heru Widarto, Rahayu Widyastuti

*“Responses of soil fauna to land-use change in Sumatra, Indonesia”*

Nicole Brinkmann, Henry Barus, Sri Wilardo Budi, Rolf Daniel, Anja Meryandini, Nisa Mubarak, Edy Nur, Andrea Polle, Iman Rusmana, Josephine Sahner, Dominik Schneider, Upik Ylanti

*“Soil microbes along a land use gradient”*

Natalie Breidenbach & Elvira Hörandl, Fuad Ulum Bahrud, Reiner Finkeldey, Hamzah, Ladislav Hodac, Diego Hojsgaard, Bambang Irawan, Nicole Opfermann, Sri Rahayu, Iskandar Siregar, Ulfah Siregar, Sri Sudarmiyati Tjitrosoedirdjo, Utut Widyastuti, Zulkifli Zulkarnain

*“Plant genetic diversity and reproductive strategies in tropical transformation systems”*

Miriam Teuscher & Miriam Vorlaufer, Ulrich Brose, Yann Clough, Yeni Mulyani, Meike Wollni *“How much is a bird? Trade-off between bird diversity and abundance, yields and revenue in smallholder oil palm plantations”*

Damayanti Buchori

*“Tropical biodiversity response to habitat transformation”*

**Human dimensions** *Chair: Anas Fauzi*

- 9.00–9.45 Daniel Murdiyarso, CIFOR Indonesia (Key note)  
*"Biodiversity and carbon conservation in the face of oil-palm development in Indonesia"*
- 9.45–10.10 Stephan Klasen & Katrin Meyer, University of Göttingen  
*"Trade-offs between optimal economic specialization and maintenance of ecosystem functions at different spatial scales"*
- 10.10–10.30 Holger Kreft & B11 Team, University of Göttingen  
*"Biodiversity enrichment in oil palm plantation"*

10.30–11.00 **Coffee break**

*Chair: Kerstin Wiegand*

- 11.00–12.00 Jochen Drescher, Fitri Yola Amandita, Damayanti Buchori, Dodo Gunawan, Reiner Finkeldey, Alexander Knohl, Ana Meijide, Stefan Scheu  
*"Central Scientific Support in an interdisciplinary research project"*
- Rivayani Darmawan & Katharina Trapp, Mohammad Iqbal Irfany, Stephan Klasen, Jann Lay  
*"The determinants of consumption-based carbon footprints in Indonesia: results from analyses in Sulawesi, Jambi and the national level"*
- I Nengah Surati Jaya, Lutz Fehrmann, Christoph Kleinn, Paul Magdon, Dian Melati, César Pérez, Muhammad Zuhdi  
*"Historical analysis on the spatial pattern of land use in the Jambi province – methods, results and tools"*
- Nunung Nuryartono  
*"The pattern of agricultural development in Jambi province – a social economic perspective"*

12.00–13.00 **Lunch**

- 13.00–14.30 Poster presentations

**Human dimensions (continued)** *Chair: Matin Qaim*

- 14.30–15.15 Patrice Levang, IRD Montpellier (Key note)  
*"Sustainability, migration, and agricultural transition. A century of damar agroforests in Krui, West Lampung (Indonesia)"*
- 15.15–15.40 Teja Tschardt & Bernhard Brümmer, University of Göttingen  
*"Scenarios of socioeconomic-ecological tradeoffs in tropical land use"*
- 15.40–16.00 Heiko Faust & Meike Wollni  
*"Socio-economic opportunities and threats of land use choices in a smallholder landscape of Sumatra"*

*Chair: Heiko Faust*

16.30–17.30

Vijesh Krishna, Michael Euler, Zakky Fathoni, Marcel Gatto, Matin Qaim, Hermanto Siregar, Stefan Schwarze, Meike Wollni

*“Socioeconomic drivers and impacts of land-use change and oil palm expansion”*

Stefanie Steinebach, Soeryo Adiwibowo, Barbara Beckert, Christoph Dittrich, Heiko Faust, Brigitta Hauser-Schäublin, Jonas Hein, Yvonne Kunz, Rina Mardiana, Rosyani, Endriatmo Soetarto

*“Changing societies, transforming landscapes”*

Tom Kopp, Bernhard Brümmer, Napitupulu Dompok, Stefan Moser, Oliver Mußhoff, Patricia Raja Sarah, Yusman Syaukat, Alamsyah Zulkifli

*“From farmer to factory: decisions along palm oil and rubber value chains”*

Soeryo Adiwibowo

*“Land transfer, social vulnerability, conservation and economic development in Jambi”*

17.30

Closing – Stefan Scheu, Kerstin Wiegand, Matin Qaim



Georg-August-Universität Göttingen



Institut Pertanian Bogor



Universitas Jambi



Universitas Tadulako Palu