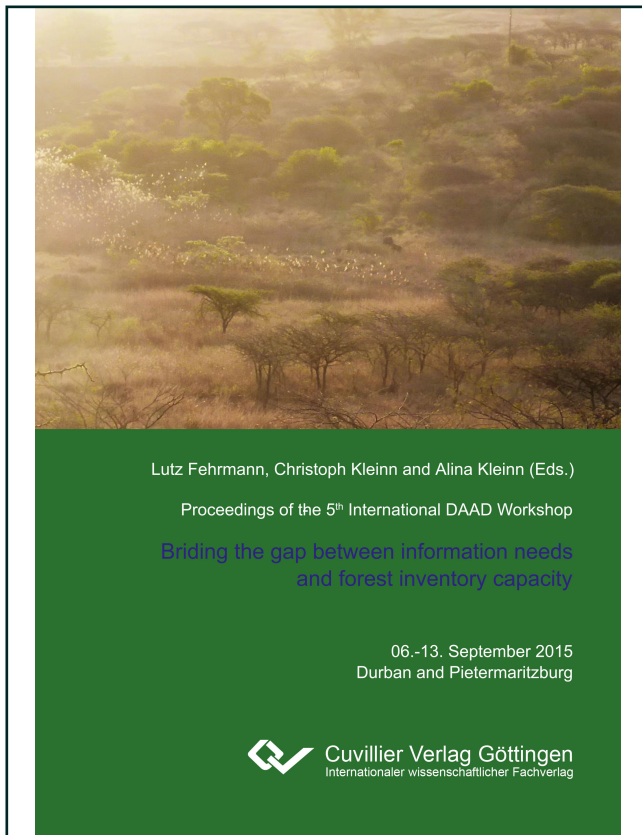




Lutz Fehrmann (Herausgeber)
Alina Kleinn (Herausgeber)
Christoph Kleinn (Herausgeber)

**Proceedings of the 5th International Workshop on
The role of forests for future global development**
Addressing information needs for sustainable management
of forest resources



<https://cuvillier.de/de/shop/publications/7140>

Copyright:

Cuvillier Verlag, Inhaberin Annette Jentsch-Cuvillier, Nonnenstieg 8, 37075 Göttingen,

Germany

Telefon: +49 (0)551 54724-0, E-Mail: info@cuvillier.de, Website: <https://cuvillier.de>



Contents

Chapter one: Forest Policies and Management

- Who needs forest information and why? 2
Cornelis van Tuyl
- Implications of state policies related to upland watershed management in the conservation and sustainable use of forests: the cases of Bangladesh and Guatemala 9
Sohag Miah and Pedro Daniel Pardo
- Community based conservation: Approaches, successes and challenges in Namibia and Nepal 27
Anu Singh and Miya Kabajani

Chapter two: Forest Carbon and REDD

- Evaluation of carbon accounting models for timber plantations in KwaZulu-Natal, South Africa 47
Dan Ndalowa, Cori Ham and Hannél Ham
- Stand-level biomass models and their use in forest monitoring: an example for Peat Swamp Forests in Indonesia 61
César Pérez-Cruzado, Yanti Sarodja, Dian Melati, Paul Magdon, Lutz Fehrmann, I Nengah Surati Jaya, Christoph Kleinn
- The curse of rare events or why enhanced sampling methods are needed for REDD+ monitoring -A large-scale case study from Colombia- 71
Paul Magdon, Hans Fuchs, Lutz Fehrmann, Cesar Pérez and Christoph Kleinn
- Plantation Forestry: Opportunities and Challenges of Carbon Trading versus Carbon Taxing Systems 83
Jeanne Roux, Sabine Schreiner and Jie Zang

Chapter three: Forest Monitoring

- A unified framework for environmental monitoring based on a discrete global sampling grid (GSG) system 99
Lutz Fehrmann
- An assessment of the effectiveness of the tropical forest monitoring systems of the Brazilian Amazon and Myanmar 111
Daniel Santos and Aung Myint Myat
- Monitoring of Ecological Restoration in the Atlantic Forest of Brazil 129
Juliana Bustamante and Roziya Kirgizbekova
- Scaledependent stand heterogeneity in a near-natural, mature, mixed deciduous forest 143
Collins Kukunda



Content

Can thermal imaging support the determination of the age of bamboo culms? A case study from Pereira, Colombia <i>Nils Nölke</i>	155
---	-----

Chapter four: Forest Management

Utilizing multi-source data for sustainable forest management in Indonesia <i>I Nengah Surati Jaya, Christoph Kleinn, Dian Melati, Lutz Ferhmann, Cesar Perez, Eri Septyawardani, Fathia Amalia Rama Dhani, Sri Wachjuni</i>	163
Towards estimation of growing stock for the timber tree <i>Pterocarpus angolensis</i> in Namibia <i>Vera De Cauwer</i>	183
Trend of Forest Cover Change in Ethiopia <i>Abraha Hatsey</i>	195
Challenges for the management of tropical forest in the context of climate change: The case of Amazonian Forest in Peru and Congo Basin in Democratic Republic of Congo <i>Adam Abubakari, Nicolás Mesía Rojas</i>	207

Appendix

Workshop Program	225
List of participants	231