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# Land Use, Nature Conservation and the Stability of Rainforest Margins in Southeast Asia

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# Land Use Nature Conservation And The Stability Of Rainforest Margins In Southeast Asia

**Wil de Jong, Tuck-Po Lye, Ken-ichi Abe**



## **Land Use Nature Conservation And The Stability Of Rainforest Margins In Southeast Asia:**

*Land Use, Nature Conservation and the Stability of Rainforest Margins in Southeast Asia* Gerhard Gerold, Michael Fremerey, Edi Guhardja, 2013-06-29 Southeast Asia constitutes one of the world's most extended rainforest regions. It is characterized by a high degree of biodiversity and contains a large variety of endemic species. Moreover, these forests provide a number of important and singular ecosystem services like erosion protection and provision of high quality water which cannot be replaced by alternative ecosystems. However, various forms of encroachment, mostly those made by human interventions, seriously threaten the continuance of rainforests in this area. There is ample evidence that the rainforest resources, apart from large-scale commercial logging, are exposed to danger, particularly from its margin areas. These areas, which are characterized by intensive man-nature interaction, have been identified as extremely fragile systems. The dynamic equilibrium that balances human needs and interventions on the one hand and natural regeneration capacity on the other is at stake. The decrease of rainforest resources is to a substantial degree connected with the destabilization of these systems. Accordingly, the search for measures and processes which prevent destabilization and promote stability is regarded as imperative. This refers to both the human and the natural part of the forest margin ecosystem.

### **Tropical Rainforests and Agroforests under Global Change** Teja Tscharntke, Christoph Leuschner, Edzo Veldkamp, Heiko Faust, Edi

Guhardja, Arifuddin Bidin, 2010-02-04 not only for land use systems that depend on the regular supply of rain or irrigation water but also for the future development of natural rainforests, as drought stress has been shown to affect tree growth and species composition in old-growth forests (Wright 1991, Walsh and Newbery 1999, Engelbrecht et al. 2007). A drought experiment conducted in a cacao agroforestry plantation showed that this plantation was surprisingly resilient to an induced drought of more than a year (Schwendenmann et al. 2009). However, droughts can have a strong impact on household incomes from agriculture; they strongly affect the vulnerability to poverty and thus have to be analyzed as important exogenous shocks to households, forcing them to adjust their behaviour and develop strategies to cope with these problems. The stability of rainforest margins is a critical factor in the protection of tropical rainforests (Tscharntke et al. 2007). At present, however, rainforest margins in many parts of the tropics are far from stable, both in socio-economic and in ecological terms. For example, protected areas may attract rather than repel human settlement, which may be due to international donor investment in national conservation programs (Wittemeyer et al. 2008). An alternative hypothesis is that protected areas might be compromised if leakage takes place, that is, if impacts that would take place inside the restricted area are displaced to a nearby undisturbed area (Ewers and Rodrigues 2008).

### **Development - Organization - Interculturalism. Essays in Honor of Prof. Dr. Michael Fremerey** Constanze Engel, Günter Burkard, Hans Hemann, Werner Troßbach, Peter Wolff, 2009

*Routledge Handbook of Forest Ecology* Kelvin S.-H. Peh, Richard T. Corlett, Yves Bergeron, 2015-10-16 This comprehensive handbook provides a unique resource covering all aspects of forest ecology from a global perspective. It

covers both natural and managed forests from boreal temperate sub tropical and tropical regions of the world The book is divided into seven parts addressing the following themes forest types forest dynamics forest flora and fauna energy and nutrients forest conservation and management forests and climate change human impacts on forest ecology While each chapter can stand alone as a suitable resource for a lecture or seminar the complete book provides an essential reference text for a wide range of students of ecology environmental science forestry geography and natural resource management Contributors include leading authorities from all parts of the world

**Economic Development and Environmental Sustainability** Ramón López, Michael A. Toman, 2006-06-29 Economic growth as we know it today cannot persist indefinitely if it entails continuous degradation of natural resources and the environment While in a few countries around the world it appears that environmental degradation has been the result of rapid economic growth in the vast majority of the developing countries the environment has been equally spoiled despite slow or even negative economic growth This book provides new insights on the common roots of economic stagnation poverty and environmental degradation which unfortunately generally reside in misguided government policies and priorities By doing this the volume seeks to provide a broader policy option framework than those found in conventional policy analyses mainly dominated by the Washington Consensus It shows that a major omission of the conventional view is that governments tend to allocate government expenditures in a biased way favouring subsidies to the economic elites to the detriment of investments in public goods including human capital R D as well as the development of institutions environmental and otherwise which are vital for long run growth poverty reduction and environmental sustainability

A Matter of Mutual Survival Günter Burkard, Michael Fremerey, 2008 This volume contains a collection of articles based on empirical social science research in forest margin communities around the Lore Lindu National Park in Central Sulawesi Indonesia It refers to a worldwide and particularly topical issue i e the declining forest resources and man s role in the observed processes of nature degradation However it refrains from rather simplistic protectionist approaches which boil down to a separation between man and nature in order to avoid the depletion of natural resources Instead the approach adopted regards the existence or development of co evolutionary potentials both in nature and human society as a precondition for the establishment of a sustainable equilibrium in the interaction between man and nature

Shifting Cultivation Policies Malcolm Cairns, 2017-11-13 Shifting cultivation supports around 200 million people in the Asia Pacific region alone It is often regarded as a primitive and inefficient form of agriculture that destroys forests causes soil erosion and robs lowland areas of water These misconceptions and their policy implications need to be challenged Swidden farming could support carbon sequestration and conservation of land biodiversity and cultural heritage This comprehensive analysis of past and present policy highlights successes and failures and emphasizes the importance of getting it right for the future This book is enhanced with supplementary resources The addendum chapters can be found at [www.cabi.org/openresources/91797](http://www.cabi.org/openresources/91797)

*Proceedings* Daniel Stietenroth, 2005 This international symposium featured three

interconnected thematic foci of interdisciplinary research They focussed on the changes in the extent and intensity of agricultural and forest land use in tropical forest margins and their implications for rural development and for conservation of natural resources such as biodiversity soils and water The symposium took place in Goettingen Almost 130 international authors have contributed a short abstract and their address

**The Social Ecology of Tropical Forests** Wil de Jong,Tuck-Po Lye,Ken-ichi Abe,2006 The Social Ecology of Tropical Forests brings together various analyses from the three major tropical regions Southeast Asia the Amazon basin and Sub Saharan Africa and by challenging simplistic correlations the authors explore the complex relationships between deforestation and migration The book provides both an historical overview of migration into these regions and presents contemporary case studies to reveal the complex interplay of factors motivating migration The scope of the discussion is extensive covering historical issues such as the impact of the slave trade on Sub Saharan African forests and communities and contemporary dilemmas like the over exploitation of natural forest products in Vietnam The authors look at the broader picture of intertwining political social geographical environmental and historical influences without seeking quick fix solutions to the social and environmental issues arising from increasing forest cover loss The analyses are spatially and temporally contextualized drawing on both qualitative and quantitative data to provide a useful resource for studying the societies of tropical regions and their social ecology

**Participatory Approaches for Sustainable Land Use in Southeast Asia** Andreas Neef,2005 Participatory approaches for sustainable land use in Southeast Asia ed **Systematic Botany Monographs** ,2006 Economic Modeling of Agricultural Land Use Patterns in Forest Frontier Areas Miet Maertens,2003 Monograph of Pseuduvaria (Annonaceae) Yvonne C. F. Su,Richard M. K. Saunders,2006 Monograph of the genus Pseuduvaria Annonaceae taxnomic history morphology and anatomy distribution taxonomy keys full synonymies descriptions maps line drawings color plates

**Land Use, Nature Conservation and the Stability of Rainforest Margins in Southeast Asia** Gerhard Gerold,Michael Fremerey,Edi Guhardja,2003-11-12 Southeast Asia constitutes one of the world s most extended rainforest regions It is characterized by a high degree of biodiversity and contains a large variety of endemic species Moreover these forests provide a number of important and sin gular ecosystem services like erosion protection and provision of high quality wa ter which cannot be replaced by alternative ecosystems However various forms of encroachment mostly those made by human interventions seriously threaten the continuance of rainforests in this area There is ample evidence that the rainforest resources apart from large scale commercial logging are exposed to danger particularly from its margin areas These areas which are characterized by intensive man nature interaction have been identified as extremely fragile systems The dynamic equilibrium that bal ances human needs and interventions on the one hand and natural regeneration capacity on the other is at stake The decrease of rainforest resources is to a sub stantial degree connected with the destabilization of these systems Accordingly the search for measures and processes which prevent destabilization and promote stability is regarded as imperative This

refers to both the human and the natural part of the forest margin ecosystem      The Entomologist's Record and Journal of Variation James William Tutt, 2022      **Water Policy** ,2006      Agriculture + Rural Development ,2000      **The Common Property Resource Digest** ,2004      **Climate Change 2007 - Mitigation of Climate Change** Intergovernmental Panel on Climate Change, 2007-11-12 The Climate Change 2007 volumes of the Fourth Assessment Report of the Intergovernmental Panel on Climate Change IPCC provide the most comprehensive and balanced assessment of climate change available This IPCC Working Group III volume provides a comprehensive state of the art and worldwide overview of scientific knowledge related to the mitigation of climate change It includes a detailed assessment of costs and potentials of mitigation technologies and practices implementation barriers and policy options for the sectors energy supply transport buildings industry agriculture forestry and waste management It links sustainable development policies with climate change practices This volume will again be the standard reference for all those concerned with climate change including students and researchers analysts and decision makers in governments and the private sector      Geographica helvetica ,2006

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