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# Rainforest Ecosystems of East Kalimantan

El Niño, Drought, Fire and Human Impacts



Springer

# Rainforest Ecosystems Of East Kalimantan El Nino Drought Fire And Human Impacts

**Dag Hessen**



## **Rainforest Ecosystems Of East Kalimantan El Nino Drought Fire And Human Impacts:**

**Rainforest Ecosystems of East Kalimantan** Edi Guhardja, 2000 Since the late 1960s the Indonesian state of East Kalimantan has witnessed a marked increase in the impact of human activities chiefly commercial logging and agricultural exploitation Located on the island of Borneo East Kalimantan also was subjected to prolonged droughts and extensive wildfires in 1982 83 and 1997 98 that were linked to the El Nino Southern Oscillation ENSO phenomenon The changes in the rainforest ecosystem in East Kalimantan during this 15 year cycle of severe ENSO events are the subject of this book With an eye toward development of rehabilitation techniques for sustainable forest management the authors examine possible interactive effects of drought fire and human impacts on the flora and fauna of the area

**Rainforest Ecosystems of East Kalimantan** Edi Guhardja, Mansur Fatawi, Maman Sutisna, Tokunori Mori, Seiichi Ohta, 2012-12-06 Since the late 1960s the Indonesian state of East Kalimantan has witnessed a marked increase in the impact of human activities chiefly commercial logging and agricultural exploitation Located on the island of Borneo East Kalimantan also was subjected to prolonged droughts and extensive wildfires in 1982 83 and 1997 98 that were linked to the El Nino Southern Oscillation ENSO phenomenon The changes in the rainforest ecosystem in East Kalimantan during this 15 year cycle of severe ENSO events are the subject of this book With an eye toward development of rehabilitation techniques for sustainable forest management the authors examine possible interactive effects of drought fire and human impacts on the flora and fauna of the area

**Rehabilitation of Degraded Tropical Forest Ecosystems** Shigeo Kobayashi, 2001-01-01 Rehabilitation of degraded tropical forest ecosystems project Evaluation of forest harvesting and fire impacts on the forest ecosystems Development of methods to rehabilitate logged over forests and degraded forest lands Development of silvicultural techniques on degraded forest lands Network of the rehabilitation of degraded forest ecosystems

Pasoh T. Okuda, N. Manokaran, Y. Matsumoto, K. Niiyama, S.C. Thomas, P.S. Ashton, 2013-06-29 The Pasoh Forest Reserve pasoh FR has been a leading center for international field research in the Asian tropical forest since the 1970s when a joint research project was carried out by Japanese British and Malaysian research teams with the cooperation of the University of Malaya UM and the Forest Research Institute FRI now the Forest Research Institute Malaysia FRIM under the International Biological Program IBP The main objective of the project was to provide basic information on the primary productivity of the tropical rain forest which was thought to be the most productive of the world's ecosystems After the IBP project a collaborative program between the University of Malaya and the University of Aberdeen Scotland UK for post graduate training was carried out at Pasoh Reproductive biology of some dipterocarp trees featured in many of the findings arrived at through the program contributing greatly to progress in the population genetics of rain forest trees Since those research programs apart of the Pasoh forest and its field research station have been managed by FRIM In 1984 FRIM started a long term ecological research program in Pasoh FR with the Smithsonian Tropical Research Institute STRI and Harvard University establishing a 50 ha plot and enumerating and

mapping all trees 1 cm or more in diameter at breast height A recensu s has been conducted every 5 years *Plant Ecology, Herbivory, and Human Impact in Nordic Mountain Birch Forests* Frans E. Wielgolaski, 2006-01-12 This work analyzes vegetation and soils and investigates the influence of climate change insect pests grazing pressure by sheep and reindeer construction of roads and other consequences of increasing tourism in the Nordic mountain birch forests Pollination Ecology and the Rain Forest David Ward Roubik, Shoko Sakai, Abang A. Hamid Karim, 2005-03-03 The groundbreaking canopy access and rain forest research at Lambir Hills National Park in Sarawak Malaysia has contributed an immense body of knowledge Its major studies over more than a decade are synthesized here for the first time The focus of this unique volume is on plant animal interactions and some of the foundations that create and maintain tropical diversity especially pollination and the phenomenon of the General Flowering The work discussed has implications for tropical biology ecology and pollination studies The power of the El Niño Southern Oscillation events and drought particularly in their effects on mutualisms are discussed in detail **Modern Crises and Traditional Strategies** Roy Ellen, 2007-07-01 The 1990s have seen a growing interest in the role of local ecological knowledge in the context of sustainable development and particularly in providing a set of responses to which populations may resort in times of political economic and environmental instability The period 1996-2003 in island southeast Asia represents a critical test case for understanding how this might work The key issues explored in this book are the creation erosion and transmission of ecological knowledge and hybridization between traditional and scientifically based knowledge amongst populations facing environmental stress e.g. 1997 El Niño political conflict and economic hazards The book will also evaluate positive examples of how traditional knowledge has enabled local populations to cope with these kinds of insecurity **Tropical Peatland Ecosystems** Mitsuru Osaki, Nobuyuki Tsuji, 2015-12-07 This book is an excellent resource for scientists political decision makers and students interested in the impact of peatlands on climate change and ecosystem function containing a plethora of recent research results such as monitoring sensing modeling for carbon water flux storage biodiversity and peatland management in tropical regions It is estimated that more than 23 million hectares 62 % of the total global tropical peatland area are located in Southeast Asia in lowland or coastal areas of East Sumatra Kalimantan West Papua Papua New Guinea Brunei Peninsular Malaysia Sabah Sarawak and Southeast Thailand Tropical peatland has a vital carbon water storage function and is host to a huge diversity of plant and animal species Peatland ecosystems are extremely vulnerable to climate change and the impacts of human activities such as logging drainage and conversion to agricultural land In Southeast Asia severe episodic droughts associated with the El Niño Southern Oscillation in combination with over drainage forest degradation and land use changes have caused widespread peatland fires and microbial peat oxidation Indonesia's 20 Mha peatland area is estimated to include about 45-55 GtC of carbon stocks As a result of land use and development Indonesia is the third largest emitter of greenhouse gases 2.3 Gtons carbon dioxide equivalent per year 80 % of which is due to deforestation and peatland loss Thus tropical peatlands are

key ecosystems in terms of the carbon water cycle and climate change     Antarctic Ecosystems R. Bargagli, 2005 This volume provides an overview of climate change data its effects on the structure and functioning of Antarctic ecosystems and the occurrence and cycling of persistent contaminants It discusses the role of Antarctic research for the protection of the global environment The book also examines possible future scenarios of climate change and the role of Antarctic organisms in the early detection of environmental perturbations     **Modern Crises and Traditional Strategies** R. F. Ellen, 2007 The 1990s have seen a growing interest in the role of local ecological knowledge in the context of sustainable development and particularly in providing a set of responses to which populations may resort in times of political economic and environmental instability The period 1996 2003 in island southeast Asia represents a critical test case for understanding how this might work The key issues explored in this book are the creation erosion and transmission of ecological knowledge and hybridization between traditional and scientifically based knowledge amongst populations facing environmental stress e g 1997 El Ni o political conflict and economic hazards The book will also evaluate positive examples of how traditional knowledge has enabled local populations to cope with these kinds of insecurity     **UV Radiation and Arctic Ecosystems** Dag Hessen, 2002 Although there are some biological processes that are supported by UV radiation most organisms are stressed by it in various ways e g through DNA damage Top international experts present an integrated overview of UV radiation and its effects on terrestrial freshwater and marine Arctic biota Increased stratospheric ozone depletion and the corresponding increase in ground levels of UV radiation as well as ambient natural UV radiation as a key ecological factor in the Arctic spring and summer are discussed in detail Additionally basic information on Arctic ecosystems is given The volume provides not only an excellent account of present day knowledge of the subject but also describes the state of the art on which future research can be built     Dipterocarp Biology, Ecology, and Conservation Jaboury Ghazoul, 2016-09-22 Asian tropical forests are amongst the most diverse on the planet a richness that belies the fact that they are dominated by a single family of trees the Dipterocarpaceae Many other families contribute to Asia s natural diversity but few compare to the dipterocarps in terms of the number and variety of species that occupy the forest canopy Understanding the ecology and dynamics of Asian forests is therefore to a large extent a study of the Dipterocarpaceae This book synthesises our current knowledge concerning dipterocarps exploring the family through taxonomic evolutionary and biogeographic perspectives Dipterocarp Biology Ecology and Conservation describes the rich variety of dipterocarp forest formations in both the ever wet and seasonal tropics including the less well known African and South American species Detailed coverage of dipterocarp reproductive ecology and population genetics reflects the considerable research devoted to this subject and its particular importance in shaping the ecology of Asian lowland rain forests Ecophysiological responses to light water and nutrients which underlie mechanisms that maintain dipterocarp species richness are also addressed At broader scales dipterocarp responses to variation in soil topography climate and natural disturbance regimes are explored from both population and

community perspectives The book concludes with a consideration of the crucial economic values of dipterocarps and their extensive exploitation discussing future opportunities for conservation and restoration This will be a useful resource for senior undergraduate and graduate courses in tropical forest ecology and management as well as professional researchers in tropical plant ecology forestry geography and conservation biology *Conserving Biodiversity in East African Forests* W.D. Newmark, 2013-04-17 Tanzania is one of the most biologically diverse nations in the world Traveling from west to east across Tanzania one encounters an incredible array of ecosystems and species Beginning at Lakes Victoria Tanganyika and Nyasa that form much of the western boundary of Tanzania one finds the most diverse and some of the most spectacular concentrations of endemic fish in any of the world's lakes Moving further inland from the lakes one meets the woodlands and plains of Serengeti Ngorongoro Tarangire and Lake Manyara The assemblages and movements of large mammals in these protected areas are unparalleled worldwide Traveling yet further to the east one comes to Mount Kilimanjaro the highest mountain in Africa Mount Kilimanjaro is of sufficient height to not only contain seven major vegetation zones but also maintain permanent glaciers Finally shortly before arriving at the Indian Ocean one encounters the Eastern Arc Mountains a series of isolated and geologically ancient mountains which due to their height and proximity to the Indian Ocean intercept sufficient precipitation to support in many areas moist tropical forest The Eastern Arc Mountains are among the richest sites biologically in all of Africa and harbor unusually high concentrations of endemic species species whose geographic distribution are restricted to these mountains Unfortunately much of Tanzania's biodiversity is threatened by habitat alteration destruction and exploitation The Eastern Arc forests face some of the most severe threats to any of Tanzania's biologically unique sites *Coastal Marine Ecosystems of Latin America* U. Seeliger, B. Kjerfve, 2013-03-14 Coastal and marine ecosystems some severely degraded other still pristine control rich resources of inshore environments and coastal seas of Latin America's Pacific and Atlantic margins Conflicts between the needs of the region's nations and diminishing revenues and environmental quality have induced awareness of coastal ecological problems and motivated financial support for restoration and management The volume provides a competent review on the structure processes and function of 22 important Latin American coastal marine ecosystems Each contribution describes the environmental settings biotic components and structure of the system considers trophic processes and energy flow evaluates the modifying influence of natural and human perturbations and suggests management needs Although the focus of the book is on basic ecological research the results have application for coastal managers *Ecosystem Approaches to Landscape Management in Central Europe* J.D. Tenhunen, R. Lenz, Ralph Hantschel, 2001-01-25 The challenges in ecosystem science encompass a broadening and strengthening of interdisciplinary ties the transfer of knowledge of the ecosystem across scales and the inclusion of anthropogenic impacts and human behavior into ecosystem landscape and regional models The volume addresses these points within the context of studies in major ecosystem types viewed as the building blocks of central European landscapes

The research is evaluated to increase the understanding of the processes in order to unite ecosystem science with resource management The comparison embraces coastal lowland forests associated wetlands and lakes agricultural land use and montane and alpine forests Techniques for upscaling focus on process modelling at stand and landscape scales and the use of remote sensing for landscape level model parameterization and testing The case studies demonstrate ways for ecosystem scientists managers and social scientists to cooperate

**Herbivory of Leaf-Cutting Ants** Rainer Wirth, Hubert Herz, Ronald J. Ryel, Wolfram Beyschlag, Bert Hölldobler, 2013-04-18 Plant animal interactions have become a focus of ecological research with the processes of herbivory being of special interest This volume examines the interactions of leaf cutting ants with the rainforest vegetation on Barro Colorado Islands in Central America It is the synthesis of field research on multiple scales extending over a period of several years This work can serve as a model study summarizing and extending knowledge about herbivorous insect plant relationships and the resulting consequences on structural and functional features of tropical ecosystems The text is an invaluable reference for researchers and land managers working in the fields of plant animal interactions herbivory community ecology and biodiversity

*Geoeology of Antarctic Ice-Free Coastal Landscapes* L. Beyer, 2002-03-26 Research in Antarctica in the past two decades has fundamentally changed our perceptions of the southern continent This volume describes typical terrestrial environments of the maritime and continental Antarctic Life and chemical processes are restricted to small ranges of ambient temperature availability of water and nutrients This is reflected not only in life processes but also in those of weathering and pedogenesis The volume focuses on interactions between plants animals and soils It includes aspects of climate change soil development and biology as well as above and below ground results of interdisciplinary research projects combining data from botany zoology microbiology pedology and soil ecology

North American Temperate Deciduous Forest Responses to Changing Precipitation Regimes Paul Hanson, Stan D. Wullschleger, 2012-12-06 Large scale experimentation allows scientists to test the specific responses of ecosystems to changing environmental conditions Researchers at Oak Ridge National Laboratory together with other Federal and University scientists conducted a large scale climatic change experiment at the Walker Branch Watershed in Tennessee a model upland hardwood forest in North America This volume synthesizes mechanisms of forest ecosystem response to changing hydrologic budgets associated with climatic change drivers The authors explain the implications of changes at both the plant and stand levels and they extrapolate the data to ecosystem level responses such as changes in nutrient cycling biodiversity and carbon sequestration In analyzing data they also discuss similarities and differences with other temperate deciduous forests Source data for the experiment has been archived by the authors in the U S Department of Energy s Carbon Dioxide Information and Analysis Center CDIAC for future analysis and modeling by independent investigators

*A History of Atmospheric CO<sub>2</sub> and Its Effects on Plants, Animals, and Ecosystems* James R. Ehleringer, Thure E. Cerling, 2005-01-27 Trees CO<sub>2</sub> concentration climate change herbivores temperature Encyclopedia of Environmental

Change John A Matthews, 2013-12-13 Accessibly written by a team of international authors the Encyclopedia of Environmental Change provides a gateway to the complex facts concepts techniques methodology and philosophy of environmental change This three volume set illustrates and examines topics within this dynamic and rapidly changing interdisciplinary field The encyclopedia includes all of the following aspects of environmental change Diverse evidence of environmental change including climate change and changes on land and in the oceans Underlying natural and anthropogenic causes and mechanisms Wide ranging local regional and global impacts from the polar regions to the tropics Responses of geo ecosystems and human environmental systems in the face of past present and future environmental change Approaches methodologies and techniques used for reconstructing dating monitoring modelling projecting and predicting change Social economic and political dimensions of environmental issues environmental conservation and management and environmental policy Over 4 000 entries explore the following key themes and more Conservation Demographic change Environmental management Environmental policy Environmental security Food security Glaciation Green Revolution Human impact on environment Industrialization Landuse change Military impacts on environment Mining and mining impacts Nuclear energy Pollution Renewable resources Solar energy Sustainability Tourism Trade Water resources Water security Wildlife conservation The comprehensive coverage of terminology includes layers of entries ranging from one line definitions to short essays making this an invaluable companion for any student of physical geography environmental geography or environmental sciences



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