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SOILS OF TROPICAL FOREST ECOSYSTEMS

Characteristics, Ecology
and Management



Springer

Soils Of Tropical Forest Ecosystems Characteristics Ecology And Management

**Friedhelm Goltenboth, Kris H.
Timotius, Paciencia P. Milan, Josef
Margraf**

Soils Of Tropical Forest Ecosystems Characteristics Ecology And Management:

Soils of Tropical Forest Ecosystems Andreas Schulte, 1998 An understanding of the characteristics and the ecology of soils particularly those of forest ecosystems in the humid tropics is central to the development of sustainable forest management systems The present book examines the contribution that forest soil science and forest ecology can make to sustainable land use in the humid tropics Four main issues are addressed characteristics and classification of forest soils chemical and hydrological changes after forest utilization soil fertility management in forest plantations and agroforestry systems as well as ecosystem studies from the dipterocarp forest region of Southeast Asia Additionally case studies include work from Guyana Costa Rica the Philippines Malaysia Australia and Nigeria The papers have been developed from presentations given at the International Congress on Soils of Tropical Forest Ecosystems 3rd Conference on Forest Soils held in Balikpapan Indonesia and will be indispensable for all concerned with forest soil science and sustainable forestry in the humid tropics

Soils of Tropical Forest Ecosystems Andreas Schulte, Daddy Ruhayat, 2013-03-14 An understanding of the characteristics and the ecology of soils particularly those of forest ecosystems in the humid tropics is central to the development of sustainable forest management systems The present book examines the contribution that forest soil science and forest ecology can make to sustainable land use in the humid tropics Four main issues are addressed characteristics and classification of forest soils chemical and hydrological changes after forest utilization soil fertility management in forest plantations and agroforestry systems as well as ecosystem studies from the dipterocarp forest region of Southeast Asia Additionally case studies include work from Guyana Costa Rica the Philippines Malaysia Australia and Nigeria

Soils of Tropical Forest Ecosystems Andreas Schulte, Daddy Ruhayat, 2014-01-15

Ecology of Insular Southeast Asia Friedhelm Goltenboth, Kris H. Timotius, Paciencia P. Milan, Josef Margraf, 2006-12-07 The textbook entitled Tropical Ecology of Southeast Asia The Indonesian Archipelago unfolds in its 5 major chapters with 20 subchapters on more than 500 pages with more than 300 figures the basic principles of ecology with examples mainly coming from the Indonesian Archipelago After an introduction describing the geography geology and climate of the region the second chapter is dedicated to marine and freshwater ecosystems Chapters on the functional ecology of seagrass beds coral reefs open ocean and deep sea are followed by information on lotic and lentic freshwater ecosystems In chapter III ecotones and special ecosystems of the archipelago are in focus The ecology and ecosystems of shore and tidal flats mangroves estuaries and soft bottom shores caves small islands grasslands and savannas are described The forest ecosystems with beach forest tropical lowland evergreen rainforest some special forest systems and mountain forests form the contents of chapter IV The final chapter V is dealing with agroecosystems and human ecology The main focus in this chapter is ricefield ecology landuse systems and social ecology including the advent of man and the development and expansion of man influencing this archipelago An extended glossary and bibliography is added as well as tables of abbreviations conversion factors international system of units and measurements or

SI and a geological time table and systematics The index gives access to important keywords and relevant information spread throughout the contents of the book The textbook will certainly be useful to teachers lecturers and their students at university and college level It also gives an overview about insular ecology of the vast Indonesian archipelago to any interested person or working ecologist Focuses on the tropical ecology and insular ecosystems and biodiversity of Indonesia as well as the agroecology of humid tropics Contains over 300 figures Provides an extended glossary and bibliography as well as tables of abbreviations conversion factors international system of units and a geological time table Easy to use index gives access to important keywords used throughout the text

Forests, Water and People in the Humid Tropics M. Bonell, L. A. Bruijnzeel, 2009-12-17 *Forests Water and People in the Humid Tropics* is a comprehensive review of the hydrological and physiological functioning of tropical rain forests the environmental impacts of their disturbance and conversion to other land uses and optimum strategies for managing them The book brings together leading specialists in such diverse fields as tropical anthropology and human geography environmental economics climatology and meteorology hydrology geomorphology plant and aquatic ecology forestry and conservation agronomy The editors have supplemented the individual contributions with invaluable overviews of the main sections and provide key pointers for future research Specialists will find authenticated detail in chapters written by experts on a whole range of people water land use issues managers and practitioners will learn more about the implications of ongoing and planned forest conversion while scientists and students will appreciate a unique review of the literature

The Management of Industrial Forest Plantations José G. Borges, Luis Diaz-Balteiro, Marc E. McDill, Luiz C.E. Rodriguez, 2014-09-01 *The Management of Industrial Forest Plantations Theoretical Foundations and Applications* provides a synthesis of current knowledge about industrial forestry management planning processes It covers components of the forest supply chain ranging from modelling techniques to management planning approaches and information and communication technology support It may provide effective support to education research and outreach activities that focus on forest industrial plantations management It may contribute further to support forest managers when developing industrial plantations management plans The book includes the discussion of applications in 26 Management Planning in Actions boxes These applications highlight the linkage between theory and practice and the contribution of models methods and management planning approaches to the efficiency and the effectiveness of industrial plantations management planning

Gradients in a Tropical Mountain Ecosystem of Ecuador Erwin Beck, Jörg Bendix, Ingrid Kottke, Franz Makeschin, Reinhard Mosandl, 2008-01-24 A fascinating work that provides a wealth of information on one of the world's most biodiverse ecosystems This is the result of investigations by almost 30 groups of researchers from various disciplines They performed ecosystem analyses following two gradients an altitudinal gradient and a gradient of land use intensity and ecosystem regeneration following human use Based on these analyses this volume discusses these findings in a huge variety of subject areas

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 census has been conducted every 5 years **Tropical Agroecosystems**

John H. Vandermeer,2002-12-03 Tropical areas present ecological cultural and political problems that demand analysis that is distinct from general ecological analysis The tropical environment is special in many ways from the lack of a biological down season winter to generally poor soil conditions to a reliance on traditional methods of agriculture in an undeveloped society Presenting a broad range of approaches to agroecosystem analysis this book addresses specific ecological issues associated with agricultural production examines two case studies of agricultural transformation and its effect on biodiversity and discusses key landscape relationships between agroecosystems wildlife and human disease

Global Change and Forest Soils,2019-11-23 Global Change and Forest Soils Cultivating Stewardship of a Finite Natural Resource Volume 36 provides a state of the science summary and synthesis of global forest soils that identifies concerns issues and opportunities for soil adaptation and mitigation as external pressures from global changes arise Where how and why some soils are resilient to global change while others are at risk is explored as are upcoming train wrecks and success stories across boreal temperate and tropical forests Each chapter offers multiple sections written by leading soil scientists who comment on wildfires climate change and forest harvesting effects while also introducing examples of current global issues Readers will find this book to be an integrated up to date assessment on global forest soils Presents sections on boreal temperate and tropical soils for a diverse audience Serves as an important reference source for anyone interested in both a big picture assessment of global soil issues and an in depth examination of specific environmental topics Provides a unique synthesis of forest soils and their collective ability to respond to global change Offers chapters written by leading soil scientists Prepares readers to meet the daily challenges of drafting multi resource environmental science and policy documents

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