

# Contents

Preface	VII
Tropical Forests in Transition: Ecology of Natural and Anthropogenic Disturbance Processes - An Introduction J.G.Goldammer	1
Palynological Evidence Relating to Disturbance and Other Ecological Phenomena of Rain Forests J.R.Flenley	17
Holocene Autochthonous Forest Degradation in Southeast Venezuela H.Fölster	25
Vegetation, Megaherbivores, Man and Climate in the Quaternary and the Genesis of Closed Rain Forests W.Schüle	45
Succession After Disturbance of Lowland Mixed Dipterocarp Forest by Shifting Agriculture in East Kalimantan, Indonesia S. Riswan and R. Abdulhadi	77
X Degradation of a Forest in the Shimba Hills National Reserve, Kenya, as Initiated by Man and Maintained by Wildlife R.Schmidt	85
Anthropo-Zoogenic Impact on the Structure and Regeneration of a Submontane Forest in Kenya K. Schmitt	105
Tropical Mountain Ecology in Ethiopia as a Basis of Conservation, Management and Restoration S.K.Uhlig	127
Forests for Integrated Land-Use Development in an Eastern Ethiopian Water Catchment H.Uibrig	135
Geocological Consequences of Human Impacts on Forests in Sri Lanka C.Preu and W.Erdelen	147
Structure and Dynamics of the Upper Montane Rain Forests of Sri Lanka W.L.Werner and S. Balasubramaniam	165
A Research Perspective on Disturbance and Recovery of a Tropical Montane Forest R.B.Waide and A.E.Lugo	173

<b>Process-Oriented Models for Simulation of Growth Dynamics of Tropical Natural and Plantation Forests</b> H.Schäfer, H.Krieger and H.Bossel	<b>191</b>
<b>A Finite-Element Model to Simulate Spacial Distributions of Populations of Large Mammals</b> A.Schüle	<b>225</b>
<b>The Role of the Tropics in the Global Carbon Budget: Impacts and Possible Developments</b> G.Esser	<b>241</b>
<b>Modeling the Response of Terrestrial Vegetation to Climate Change in the Tropics</b> T.M.Smith, J.B.Smith Jr. and H.H.Shugart	<b>253</b>
<b>Subject Index</b>	<b>269</b>