

# The High Frontier Exploring The Tropical Rainforest Canopy

**Richard Mabey** 

# The High Frontier Exploring The Tropical Rainforest Canopy:

The High Frontier Mark W. Moffett, 1993 Loaded with aerial plants and the millions of creatures dependent upon them tropical tree crowns are the last and greatest ecological frontier Hundreds of species earthworms frogs flowers shrubs never descend to earth during their lifetimes Eight out of ten remain unnamed and unclassified by science In The High Frontier Mark W Moffett does for the tropical rainforest canopy what Jacques Cousteau did thirty years ago for undersea life Donning rock climbing gear to join researchers working 150 feet and more above the ground Moffett photographed strangler trees in Borneo giant squirrels in India and canopy bears in Colombia He entered the terrifying world of arboreal spiders and ants photographing them under extreme magnification His coverage of this new science is unparalleled in any other field Described as a world roving zoologist by National Geographic magazine for his work on five continents Moffett has documented virtually every major active canopy research site The immediacy of his writing and the intelligence of his photography make the canopy s fantastic architecture and unearthly inhabitants accessible to the general reader In the tradition of the great nineteenth century explorers he captures the struggles of the individual scientists and the passions that enable them to brave perilous situations in pursuit of their work The High Frontier is a modern classic of scientific discovery

**Tropical Forest Canopies: Ecology and Management** K.E. Linsenmair, Andrew Davis, B. Fiala, M.R. Speight, 2013-03-14 Almost half of all life on earth may exist in the world's forest canopies. They may also play a vital role in maintaining the planet's climate yet they remain largely unexplored owing to difficulties of access They are renowned for their great diversity and role in forest functioning yet there are still great gaps in the understanding of this last biological frontier This seminal book shows how canopy science is now in a position to answer many of the outstanding questions among which are some of the most pressing environmental issues society is presently facing It represents a major summary of the current understanding of canopy ecology and maps a path forward into a greater understanding of tropical forest ecology and management at a time when the very future of this ecosystem is threatened by humanity s actions Treetops at Risk Margaret Lowman, Soubadra Devy, T. Ganesh, 2013-06-22 Forest canopies not only support high terrestrial biodiversity but also represent a critical interface between the atmosphere and the earth They provide goods and services to support diverse human communities and offer opportunities to explore sustainable use of these resources for many generations of local livelihoods Forest canopies are important carbon sequestration units and in this sense serve as climate control for the planet Canopies are important energy production centers for the planet and serve as the basis for many food chains The canopy can also act as a hook for education outreach and conservation inspiring ecotourism through recreation and other sustainable uses such as treetop walks zip lines and birding Despite these critical services provided by forest canopies almost no dedicated research in the treetops was initiated until as recently as the late 1970s when single rope techniques were developed by mountaineering professionals and adapted for use in the canopy Subsequently an array of canopy access tools

was designed in the 1980s and early 1990s that have opened up this eighth continent for global exploration and discovery This volume uses the major findings of the 5th international canopy conference as a platform for organization but it does not mimic the sessions and presentations of the conference itself Instead it builds on the important themes that emerged from the conference and solicits articles that represent future priorities and advancements for canopy science in the next decade Despite the global efforts of hundreds of forest scientists over the past 3 decades forests are degrading at an accelerated rate and biodiversity is increasingly threatened by human activities Given these trends despite the very best efforts of the world s best scientists other approaches must be taken This volume summarizes the issue of treetops at risk and assembles a global authorship toexamine past accomplishments and future initiatives critical in forest conservation Canopies: Ecology and Management Karl-Eduard Linsenmair, 2001 The Secrets of Tropical Rainforests Jean Hamilton, 2005 Describes the unique plants and animals that exist in tropical rainforests their interdependence and their importance to the world's ecology The Amazon Roger Harris, Peter Hutchison, 2007 This new edition has been completely revised with updated information on hotels lodges and tour operators It contains a detailed and illustrated natural history section on native species and habitats The Amazon is an ideal location for eco travellers naturalists sports enthusiasts and explorers Travellers are given sound advice on responsible travel and planning their own expedition Management in Practice: Vol 3 Paul Compton, Dimitri Devuyst, Luc Hens, Bhaskar Nath, 2013-01-11 Volume 3 Managing the Ecosystem focuses on those ecosystems in which human intervention has been or continues to be predominant specifically within cities and rural areas **Journey of the Pink Dolphins** Sy Montgomery, 2009-01-16 Dolphins The River of Doubt Candice Millard, 2009-12-16 NATIONAL BESTSELLER At once an incredible adventure narrative and a penetrating biographical portrait the bestselling author of River of the Gods brings us the true story of Theodore Roosevelt's harrowing exploration of one of the most dangerous rivers on earth A rich dramatic tale that ranges from the personal to the literally earth shaking The New York Times The River of Doubt it is a black uncharted tributary of the Amazon that snakes through one of the most treacherous jungles in the world Indians armed with poison tipped arrows haunt its shadows piranhas glide through its waters boulder strewn rapids turn the river into a roiling cauldron After his humiliating election defeat in 1912 Roosevelt set his sights on the most punishing physical challenge he could find the first descent of an unmapped rapids choked tributary of the Amazon Together with his son Kermit and Brazil s most famous explorer C ndido Mariano da Silva Rondon Roosevelt accomplished a feat so great that many at the time refused to believe it In the process he changed the map of the western hemisphere forever Along the way Roosevelt and his men faced an unbelievable series of hardships losing their canoes and supplies to punishing whitewater rapids and enduring starvation Indian attack disease drowning and a murder within their own ranks Three men died and Roosevelt was brought to the brink of suicide The River of Doubt brings alive these extraordinary events in a powerful nonfiction narrative thriller that happens to feature one of the most famous

Americans who ever lived From the soaring beauty of the Amazon rain forest to the darkest night of Theodore Roosevelt's life here is Candice Millard's dazzling debut Look for Candice Millard's latest book River of the Gods

The Green Republic
Sterling Evans, 2010-06-28 With over 25 percent of its land set aside in national parks and other protected areas Costa Rica is renowned worldwide as the green republic In this very readable history of conservation in Costa Rica Sterling Evans explores the establishment of the country's national park system as a response to the rapid destruction of its tropical ecosystems due to the expansion of export related agriculture Drawing on interviews with key players in the conservation movement as well as archival research Evans traces the emergence of a conservation ethic among Costa Ricans and the tangible forms it has taken In Part I he describes the development of the national park system and the grand contradiction that conservation occurred simultaneously with massive deforestation in unprotected areas In Part II he examines other aspects of Costa Rica's conservation experience including the important roles played by environmental education and nongovernmental organizations campesino and indigenous movements ecotourism and the work of the National Biodiversity Institute

Coexistence Jan Sapp, 2016-10-18 This book is about tropical biology in action how biologists grapple with the ecology and evolution of the great species diversity in tropical rainforests and coral reefs **Forest Canopies** Margaret D. Lowman, H. Bruce Rinker, 2004-09-28 The treetops of the world's forests are where discovery and opportunity abound however they have been relatively inaccessible until recently This book represents an authoritative synthesis of data anecdotes case studies observations and recommendations from researchers and educators who have risked life and limb in their advocacy of the High Frontier With innovative rope techniques cranes walkways dirigibles and towers they finally gained access to the rich biodiversity that lives far above the forest floor and the emerging science of canopy ecology In this new edition of Forest Canopies nearly 60 scientists and educators from around the world look at the biodiversity ecology evolution and conservation of forest canopy ecosystems Comprehensive literature list State of the art results and data sets from current field work Foremost scientists in the field of canopy ecology Expanded collaboration of researchers and international projects User friendly format with sidebars and case studies Keywords and outlines for each chapter The Earth Dwellers Erich Hoyt, 1997-03-21 The author alternates stories of individual ants with the research of two field biologists in Costa Rica Saving Fish from Drowning Amy Tan, 2006-09-26 A rollicking adventure filled story packed with the human capacity for love USA Today A superbly executed good hearted farce that is part romance and part mystery With Tan s many talents on display it s her idiosyncratic wit and sly observations that make this book pure pleasure San Francisco Chronicle San Francisco art patron Bibi Chen has planned a journey of the senses along the famed Burma Road for eleven lucky friends But after her mysterious death Bibi watches aghast from her ghostly perch as the travelers veer off her itinerary and embark on a trail paved with cultural gaffes and tribal curses Buddhist illusions and romantic desires On Christmas morning the tourists cruise across a misty lake and disappear With picaresque characters and mesmerizing

imagery Saving Fish from Drowning gives us a voice as idiosyncratic sharp and affectionate as the mothers of The Joy Luck Club Bibi is the observant eye of human nature the witness of good intentions and bad outcomes of desperate souls and those who wish to save them In the end Tan takes her readers to that place in their own heart where hope is found Amy Tan is among our great storytellers The New York Times Book Review Amy Tan has created an almost magical adventure that page by page becomes a metaphor for human relationships Isabel Allende With humor ruthlessness and wild imagination Tan has reaped a fantastic tale of human longings and of course their consequences Elle A book that s easy to read and hard to forget The Cabaret of Plants Richard Mabey, 2015-10-22 In The Cabaret of Plants Mabey explores the plant species which have challenged our imaginations awoken our wonder and upturned our ideas about history science beauty and belief Picked from every walk of life they encompass crops weeds medicines religious gathering places and a water lily named after a queen Beginning with pagan cults and creation myths the cultural significance of plants has burst upwards sprouting into forms as diverse as the panacea the cure all plant ginseng a single root of which can cost up to 10 000 Newton's apple the African vegetable elephant or boabab and the mystical night flowering Amazonian cactus the moonflower Ranging widely across science art and cultural history poetry and personal experience Mabey puts plants centre stage and reveals a true botanical cabaret a world of tricksters shape shifters and inspired problem solvers as well as an enthralled audience of romantics eccentric amateur scientists and transgressive artists The Cabaret of Plants celebrates the idea that plants are not simply the furniture of the planet but vital inventive individual beings worthy of respect and that to understand this may be the best way of preserving life together on Earth Encyclopedia of Forest Sciences Julian Evans, John A. Youngguist, 2004-04-02 A combination of broad disciplinary coverage and scientific excellence the Encyclopedia of Forest Sciences will be an indispensable addition to the library of anyone interested in forests forestry and forest sciences Packed with valuable insights from experts all over the world this remarkable set not only summarizes recent advances in forest science techniques but also thoroughly covers the basic information vital to comprehensive understanding of the important elements of forestry The Encyclopedia of Forest Sciences also covers relevant biology and ecology different types of forestry e g tropical forestry and dryland forestry scientific names of trees and shrubs and the applied economic and social aspects of forest management Valuable key features further enhance the utility of this Encyclopedia as an exceptional reference tool Also available online via ScienceDirect featuring extensive browsing searching and internal cross referencing between articles in the work plus dynamic linking to journal articles and abstract databases making navigation flexible and easy For more information pricing options and availability visit www info sciencedirect com Edited and written by a distinguished group of editors and contributors Well organized encyclopedic format provides concise readable entries easy searches and thorough cross references Illustrative tables figures and photographs in every entry produced in full color Comprehensive glossary defines new and important terms Complete up to date coverage of over 60 areas of forest sciences sure to be of

interest to scientists students and professionals alike Editor in Chief is the past president of the International Union of Forestry Research Organizations the oldest international collaborative forestry research organization with over 15 000 scientists from 100 countries The Cabaret of Plants: Forty Thousand Years of Plant Life and the Human **Imagination** Richard Mabey, 2016-01-11 Highly entertaining Mabey gets us to look at life from the plants point of view Constance Casey New York Times The Cabaret of Plants is a masterful globe trotting exploration of the relationship between humans and the kingdom of plants by the renowned naturalist Richard Mabey A rich sweeping and wonderfully readable work of botanical history The Cabaret of Plants explores dozens of plant species that for millennia have challenged our imaginations awoken our wonder and upturned our ideas about history science beauty and belief Going back to the beginnings of human history Mabey shows how flowers trees and plants have been central to human experience not just as sources of food and medicine but as objects of worship actors in creation myths and symbols of war and peace life and death Writing in a celebrated style that the Economist calls delightful and casually learned Mabey takes readers from the Himalayas to Madagascar to the Amazon to our own backyards He ranges through the work of writers artists and scientists such as da Vinci Keats Darwin and van Gogh and across nearly 40 000 years of human history Ice Age images of plant life in ancient cave art and the earliest representations of the Garden of Eden Newton's apple and gravity Priestley's sprig of mint and photosynthesis and Wordsworth's daffodils the history of cultivated plants such as maize ginseng and cotton and the ways the sturdy oak became the symbol of British nationhood and the giant sequoia came to epitomize the spirit of America Complemented by dozens of full color illustrations The Cabaret of Plants is the magnum opus of a great naturalist and an extraordinary exploration of the deeply interwined history of humans and the natural world **Tropical Forest Ecology** Egbert Giles Leigh Jr., 1999-03-04 In Tropical Forest Ecology Egbert G Leigh Jr one of the world's foremost tropical ecologists introduces readers to the tropical forest and describes the intricate web of interdependence among the great diversity of tropical plants and animals Focusing on the tropical forest of Barro Colorado Island Panama Leigh shows what Barro Colorado can tell us about other tropical forests and what tropical forests can tell us about Barro Colorado This book considers three essential questions for understanding the ecological organization of tropical forests How do they stay green with their abundance of herbivores Why do they have such a diversity of plants and animals And what role does mutualism play in the ecology of tropical forests Beautifully written and abundantly illustrated Tropical Forest Ecology will certainly appeal to a wide variety of scientists in the fields of evolution tropical biology botany zoology and natural history

<u>Amazonas</u> Roger Harris, Marc Ripol Sainz, Peter Hutchison, 2011-03 **Plant Ecology** Paul A. Keddy, 2017-04-17 This book presents a global and interdisciplinary approach to plant ecology guiding students through essential concepts with real world examples

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