



Roots in the African Dust

Sustaining the Drylands

MICHAEL MORTIMORE

Roots In The African Dust Sustaining The Sub Saharan Drylands

W.M. Adams, M.J. Mortimore



Roots In The African Dust Sustaining The Sub Saharan Drylands:

Roots in the African Dust Michael Mortimore, 1998-09-17 The image of Africa in the modern world has come to be shaped by perceptions of the drylands and their problems of poverty drought degradation and famine Michael Mortimore offers an alternative and revisionist thesis dismissing on theoretical and empirical grounds the conventional view of runaway desertification driven by population growth and inappropriate land use In its place he suggests a more optimistic model of sustainable land use based on researched case studies from East and West Africa where indigenous technological adaptation has put population growth and market opportunities to advantage He also proposes a more appropriate set of policy priorities to support dryland peoples in their efforts to sustain land and livelihoods The result is a remarkably clear synthesis of much of the best work that has emerged over past years *Urban Growth and Land Degradation in Developing Cities* Roy Maconachie, 2016-02-11 The peri urban interface in poor countries is frequently an area of great dynamism and a focus of competition for basic resources In Nigeria peri urban livelihood strategies have become an increasingly important survival mechanism in the context of rapid urban growth This book uses an innovative combination of methodologies from both the natural and social sciences to examine recent developments in and around the city of Kano in northern Nigeria and in doing so provides insights into the sustainability of these livelihood strategies Identifying some of the most significant forces that are currently shaping the process of peri urban change it argues that despite the adoption of creative and ingenious strategies by many farmers urban growth is having a considerable effect on the livelihood resilience of individuals households and communities The findings presented in this book have much wider relevance and are transferable to other burgeoning Third World cities where increased pressures on urban hinterlands have intensified contests amongst various actors made access to resources much more difficult and made traditional smallholder mechanisms of adaptation and resilience increasingly challenging **Green Development** Bill Adams, 2019-12-05 The concept of sustainability lies at the core of the challenge of environment and development and the way governments business and environmental groups respond to it Green Development provides a clear and coherent analysis of sustainable development in both theory and practice Green Development explores the origins and evolution of mainstream thinking about sustainable development and offers a critique of the ideas behind them It draws a link between theory and practice by discussing the nature of the environmental degradation and the impacts of development It argues that ultimately green development has to be about political economy about the distribution of power and not about environmental quality Its focus is strongly on the developing world The fourth edition retains the broad structure of previous editions but has been updated to reflect advances in ideas and changes in international policy Greater attention has been given to the political ecology of development market based and neoliberal environmentalism and degrowth This fully revised edition discusses the origins of thinking about sustainability and sustainable development and its evolution to the present day the ideas that dominate mainstream sustainable development

including natural capital the green economy market environmentalism and ecological modernisation critiques of mainstream ideas and of neoliberal framings of sustainability and alternative ideas about sustainability that challenge business as usual thinking such as arguments about limits to growth and calls for degrowth the dilemmas of sustainability in the context of forests desertification food and farming biodiversity conservation and dam construction the challenge of policy choices about sustainability particularly between reformist and radical responses to the contemporary global dilemmas Green Development offers clear insights into the challenges of environmental sustainability and social and economic development It is unique in offering a synthesis of theoretical ideas on sustainability and in its coverage of the extensive literature on environment and development around the world The book has proved its value to generations of students as an authoritative thought provoking and readable guide to the field of sustainable development

Desert Edens Philipp Lehmann, 2024-12-17 How technological advances and colonial fears inspired utopian geoengineering projects during the late nineteenth and early twentieth centuries From the 1870s to the mid twentieth century European explorers climatologists colonial officials and planners were avidly interested in large scale projects that might actively alter the climate Uncovering this history Desert Edens looks at how arid environments and an increasing anxiety about climate in the colonial world shaped this upsurge in ideas about climate engineering From notions about the transformation of deserts into forests to Nazi plans to influence the climates of war torn areas Philipp Lehmann puts the early climate change debate in its environmental intellectual and political context and considers the ways this legacy reverberates in the present climate crisis Lehmann examines some of the most ambitious climate engineering projects to emerge in the late nineteenth and early twentieth centuries Confronted with the Sahara in the 1870s the French developed concepts for a flooding project that would lead to the creation of a man made Sahara Sea In the 1920s German architect Herman S rgel proposed damming the Mediterranean in order to geoengineer an Afro European continent called Atlantropa which would fit the needs of European settlers Nazi designs were formulated to counteract the desertification of Eastern Europe and Central Asia Despite ideological and technical differences these projects all incorporated and developed climate change theories and vocabulary They also combined expressions of an extreme environmental pessimism with a powerful technological optimism that continue to shape the contemporary moment Focusing on the intellectual roots intended effects and impact of early measures to modify the climate Desert Edens investigates how the technological imagination can be inspired by pressing fears about the environment and civilization

Politics, Property and Production in the West African Sahel Tor Arve Benjaminsen, Christian Lund, 2001 Through a number of case studies from the West African Sahel this book links and explores natural resources management from the perspectives of politics property and production

The Oxford Handbook of the African Sahel Leonardo A. Villalón, 2021-10-15 Long on the margins of both scholarly and policy concerns the countries of the West African Sahel have recently attracted world attention primarily as a key battleground in the global war on terror This book moves beyond this narrow focus providing a

multidimensional and interdisciplinary assessment of the region in all of its complexity The focus is on the six countries at the heart of the Sahelian geographic space Senegal Mauritania Mali Burkina Faso Niger and Chad Collectively the chapters explore the commonalities and interconnections that link these countries and their fates while also underscoring their diversity and the variations in their current realities The Sahel today is at an important crossroads under multiple pressures of diverse kinds environmental political demographic and economic as well as rapidly changing social and religious dynamics It is also marked by striking dynamism and experimentation drawing on a long history of innovation and cultural transfer In many ways the Sahel is today on the cutting edge of grand natural experiments exploring how humans will adapt to climate change to technological innovation to the global movement of populations and the restructuring of world politics to urbanization social change and rapid demographic growth and to inter religious contact The region is a weathervane on the front lines of the forces of global change In nine thematic sections the chapters in this book offer holistic analyses of the key forces shaping the region Including scholars based in Africa Europe and the United States the authors represent an exceptional breadth and depth of expertise on the Sahel

The Ecosystem Approach Gill Shepherd, 2008 Commission on Ecosystem Management Cover

Working the Sahel W.M. Adams, M.J. Mortimore, 2005-08-08 Drawing on four years of field research the authors look at how farmers manage biological resources crop and non crop biodiversity soil fertility and transform the landscape through agricultural intensification

Green Development William Mark Adams, 2001 This revised and updated new edition retains the clear and powerful argument which characterized the original It gives a valuable analysis of the theory and practice of sustainable development and suggests that at the start of the new millennium we should think radically about the challenge of sustainability Fully revised this latest edition includes further reading chapter outlines chapter summaries and new discussion topics and explores the roots of sustainable development thinking and its evolution in the last three decades of the twentieth century the dominant ideas within mainstream sustainable development the nature and diversity of alternative ideas about sustainability the problems of environmental degradation and the environmental impacts of development strategies for building sustainability in development from above and below Offering a synthesis of theoretical ideas on sustainability based on the industrialized economies of the North and the practical applied ideas in the South which tend to ignore First World theory this important text gives a clear discussion of theory and extensive practical insights drawn from Africa Latin America and Asia

The Peri-Urban Interface Duncan McGregor, David Simon, Donald Thompson, 2012-04-27 Peri urban interfaces the zones where urban and rural areas meet suffer from the greatest problems to humans caused by rapid urbanization including intense pressures on resources slum formation lack of adequate services such as water and sanitation poor planning and degradation of farmland These areas home to hundreds of millions of people face unique problems and need distinctive and innovative approaches and solutions This book authored by top researchers and practitioners covers the full breadth and depth of the impacts of rapid urbanization on livelihoods

poverty and resources in the peri urban zones in diverse African Asian Latin American and Caribbean contexts Topics include peri urban resource sustainability ecosystems and societies and environmental changes in peri urban zones Rich case studies cover production systems and livelihoods including the impacts of irrigated vegetable production horticulture dairy enterprises waste fed fisheries and pastoral livelihoods Also addressed are planning and development issues in the peri urban interface including the difficulty in achieving sustainability conflict and cooperation over resources and a fresh look at the relationship between people and their environment The final part of the book presents policies and strategies for promoting and measuring sustainability in peri urban zones including community based waste management the co management of watersheds and empowerment of the poor This book is the most comprehensive examination of the challenges and solutions facing the people and environments of peri urban zones and is essential reading for all practitioners students and academics in geography and development

Land Degradation Douglas L. Johnson, Laurence A. Lewis, 2007 This up to date second edition of Land Degradation explores substantial decreases in the land's biological productivity or usefulness to humans due to human activities Case studies cover the history of land degradation local and regional effects of human interactions with the environment and both negative and positive aspects of land modification Extensively illustrated Land Degradation can be used as the primary text in a course of the same name or as a supplement in courses covering land use environmental change and sustainability

Climate Change and Vulnerability and Adaptation Neil Leary, Cecilia Conde, Jyoti Kulkarni, Anthony Nyong, James Adejuwon, Vicente Barros, Ian Burton, Rodel Lasco, Juan Pulhin, 2013-11-05 Sound and solid case studies on vulnerability and adaptation have been woefully lacking in the international discourse on climate change This set of books begins to bridge the gap Achim Steiner UN Under Secretary General and Executive Director of United Nations Environment Programme Important reading for students and practitioners alike Martin Parry Co Chair Working Group II Impacts Adaptation and Vulnerability Intergovernmental Panel on Climate Change IPCC Fills an important gap in our understanding It is policy relevant and deserves to be widely read Richard Klein Senior Research Fellow Stockholm Environment Institute SEI Sweden The Intergovernmental Panel on Climate Change IPCC concluded in its 2001 report that much of the developing world is highly vulnerable to adverse impacts from climate change But the IPCC also concluded that the vulnerabilities of developing countries are too little studied and too poorly understood to enable determination of adaptation strategies that would be effective at reducing risks These authoritative volumes resulting from the work of the Assessments of Impacts and Adaptations to Climate Change AIACC project launched by the IPCC in 2002 are the first to provide a comprehensive investigation of the issues at stake Climate Change and Vulnerability discusses who is vulnerable to climate change the nature of their vulnerability and the causes of their vulnerability for parts of the world that have been poorly researched until now Climate Change and Adaptation covers current practices for managing climate risks to food security water resources livelihoods human health and infrastructure needs for effective management of climate risks the changing nature of the risks

strategies for adaptation and the need to integrate these strategies into development planning and resource management

Climate Change and Vulnerability Cecilia Conde, Jyoti Kulkarni, Neil Leary, Anthony Nyong, Juan Pulhin, 2012-05-04 Sound and solid case studies on vulnerability and adaptation have been woefully lacking in the international discourse on climate change. This set of books begins to bridge the gap. Achim Steiner, UN Under Secretary General and Executive Director of United Nations Environment Programme. Important reading for students and practitioners alike. Martin Parry, Co-Chair Working Group II Impacts, Adaptation and Vulnerability, Intergovernmental Panel on Climate Change (IPCC). This book fills an important gap in our understanding. It is policy relevant and deserves to be widely read. Richard Klein, Senior Research Fellow, Stockholm Environment Institute (SEI), Sweden. The award of the Nobel Peace Prize for 2007 to the IPCC brings needed attention to the threats from climate change for highly vulnerable regions of the developing world. This authoritative volume, along with its companion covering adaptation, resulting from the work of the Assessments of Impacts and Adaptations to Climate Change (AIACC) project launched with the IPCC in 2002, is the first to provide an in-depth investigation of the stakes in developing countries. It discusses who is vulnerable and the nature and causes of their vulnerability for parts of the world that have been poorly researched till now. It also provides researchers with new examples of applications of vulnerability assessment methods, an approach that is of growing interest in the climate change area but for which there are relatively few applications in the literature. Published with TWAS and START.

West African Studies Global Security Risks and West Africa Development Challenges OECD, 2012-02-02 This publication explores current global security issues, their development in West Africa, and their potential impact on regional stability. It takes a close look at issues such as terrorism and trafficking, climate change, and the links between security and development.

The End of Desertification? Roy H. Behnke, Michael Mortimore, 2016-04-12 The question in the title of this book draws attention to the shortcomings of a concept that has become a political tool of global importance even as the scientific basis for its use grows weaker. The concept of desertification, it can be argued, has ceased to be analytically useful and distorts our understanding of social environmental systems and their resiliency, particularly in poor countries with variable rainfall and persistent poverty. For better policy and governance, we need to reconsider the scientific justification for international attempts to combat desertification. Our exploration of these issues begins in the Sahel of West Africa, where a series of severe droughts at the end of the 20th century led to the global institutionalization of the idea of desertification. It now seems incontrovertible that these droughts were not caused primarily by local land use mismanagement, effectively terminating a long-standing policy and scientific debate. There is now an opportunity to treat this episode as an object lesson in the relationship between science, the formation of public opinion, and international policy making. Looking beyond the Sahel, the chapters in this book provide case studies from around the world that examine the use and relevance of the desertification concept. Despite an increasingly sophisticated understanding of dryland environments and societies, the uses now being made of the desertification concept in

parts of Asia exhibit many of the shortcomings of earlier work done in Africa It took scientists more than three decades to transform a perceived desertification crisis in the Sahel into a non event This book is an effort to critically examine that experience and accelerate the learning process in other parts of the world *Revising Green Infrastructure* Daniel Czechowski, Thomas Hauck, Georg Hausladen, 2018-10-08 Consider this How do we handle the convergence of landscape architecture ecological planning and civil engineering What are convenient terms and metaphors to communicate the interplay between design and ecology What are suitable scientific theories and technological means What innovations arise from multidisciplinary and cross scalar approaches What are appropriate aesthetic statements and spatial concepts What instruments and tools should be applied *Revising Green Infrastructure Concepts Between Nature and Design* examines these questions and presents innovative approaches in designing green landscape or nature as infrastructure from different perspectives and attitudes instead of adding another definition or category of green infrastructure The editors bring together the work of selected ecologists engineers and landscape architects who discuss a variety of theoretical aspects research projects teaching methods and best practice examples in green infrastructure The approaches range from retrofitting existing infrastructures through landscape based integrations of new infrastructures and envisioning prospective landscapes as hybrids machines or cultural extensions The book explores a scientific functional approach in landscape architecture It begins with an overview of green functionalism and includes examples of how new design logics are deduced from ecology in order to meet economic and environmental requirements and open new aesthetic relationships toward nature The contributors share a decidedly cultural perspective on nature as landscape Their ecological view emphasizes the individual nature of specific local situations Building on this foundation the subsequent chapters present political ideas and programs defining social relations toward nature and their integration in different planning systems as well as their impact on nature and society They explore different ways of participation and cooperation within cities regions and nations They then describe projects implemented in local contexts to solve concrete problems or remediate malfunctions These projects illustrate the full scope presented and discussed throughout the book the use of scientific knowledge strategic thinking communication with municipal authorities and local stakeholders design implementation on site and documentation and control of feedback and outcome with adequate indicators and metrics Although diverse and sometimes controversial the discussion of how nature is regarded in contrast to society how human natural systems could be organized and how nature could be changed optimized or designed raises the question of whether there is a new paradigm for the design of social relations to nature The multidisciplinary review in this book brings together discussions previously held only within the respective disciplines and demonstrates how they can be used to develop new methods and remediation strategies Water Ecosystem Services and Poverty Under Climate Change James Mayers, 2009 Benefits to people from water ecosystems like rivers swamps floodplains and groundwater systems are central to human well being This report seeks to highlight some of the critical issues facing

water ecosystem services in Africa South Asia and Latin America and makes recommendations on the research that is needed to fill the gaps in knowledge **Resilience and Collapse in African Savannahs** Michael Bollig,David M.

Anderson,2018-10-11 This book assesses the causes and consequences of environmental change in East Africa asking whether local African communities are sufficiently resilient to cope with the ecological and social challenges that confront them It focuses on the savannahs of the Baringo Bogoria basin and the surrounding highlands of Kenya s northern Rift Valley that form the social ecological system of the specialised cattle pastoralists and niche agricultural farmers who occupy these semi arid lands Historical studies of resilience spanning the past two centuries are linked with analysis of current environmental challenges and the ecological social economic and political responses mounted by local communities The authors question whether the most recent challenges confronting the peoples of eastern Africa s savannahs intensified conflicts mounting poverty driven by demographic pressures and dramatic ecological changes brought by invasive species might soon led to a collapse in essential elements of the specialised cattle pastoralism that dominates the region requiring a re orientation of the social ecological system This book was originally published as a special issue of the Journal of Eastern African Studies **Challenging Nature** Philip W. Porter,2006-03 Tanga Region Tanzania is an area of persistent rural poverty with a long history of drought floods food shortages famine and social and economic disruption Though farmers have been cultivating the land there for hundreds of years they have consistently been unable to supply adequate food for the region s inhabitants In Challenging Nature Philip Porter examines eighteen farming communities to understand what the farmers there know about their environment and which historical and economic factors play into the lack of food security Porter first began work on this project in 1972 asking 250 farmers in the region about life history environmental and agricultural changes types of crops grown and methods of planting environmental assessments agricultural practices food and water supplies training and education and attitudes toward nature Twenty years later he returned and reinterviewed as many farmers as could be found from the first survey The result contextualizes the environmental history of the region while informing current and future agricultural development Climate Change Impacts and Sustainability Pius Z. Yanda,Claude G. Mung'ong'o,Edmund B. Mabhuye,2020-06-02 This book provides a detailed analysis of the economic and environmental impacts of climate change on the tropical ecosystems in Tanzania Topics covered include agriculture marine resources wildlife and weather forecasting The analyses concentrate on real and potential impacts of climate change focusing on changes in temperature and precipitation Adaptive capacity and strategies for enhancing resilience such as changing crop types and crop patterns in farming are described

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