

Environmental Change And Agricultural Sustainability In The Mekong Delta Advances In Global Change Research

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Why Forests? Why Now? - Frances Seymour
2016-12-27

Tropical forests are an undervalued asset in meeting the greatest global challenges of our time—averting climate change and promoting development. Despite their importance, tropical forests and their ecosystems are being destroyed at a high and even increasing rate in most forest-rich countries. The good news is that the science, economics, and politics are aligned to support a major international effort over the next five years to reverse tropical deforestation. *Why Forests? Why Now?* synthesizes the latest evidence on the importance of tropical forests in a way that is accessible to anyone interested in climate change and development and to readers already familiar with the problem of deforestation. It makes the case to decisionmakers in rich countries that rewarding developing countries for protecting their forests is urgent, affordable, and achievable.

Water and Power - Mart A. Stewart 2018-12-12

This book brings together a talented international group of scholars, policy practitioners, and NGO professionals that explores a range of issues relating to environmental, developmental, and governing challenges on the Mekong, one of the world's greatest rivers and, alas, one of the most

endangered. The book is divided into three sections devoted in turn to historical perspectives on the Lower Mekong Basin. Issues relate to livelihood strategies, environmental threats, and adaptation strategies; and various aspects of river governance, with individual authors treating questions of governance at different levels of refraction and in different registers. The result is a fresh and innovative collection of essays, which, taken together, provide much-needed new perspectives on some of the most important and seemingly intractable environmental and development issues in contemporary Asia.

Migration, Environment and Climate Change - Frank Laczko 2009

Gradual and sudden environmental changes are resulting in substantial human movement and displacement, and the scale of such flows, both internal and cross-border, is expected to rise with unprecedented impacts on lives and livelihoods. Despite the potential challenge, there has been a lack of strategic thinking about this policy area partly due to a lack of data and empirical research on this topic. Adequately planning for and managing environmentally induced migration will be critical for human security. The papers in this volume were first presented at the Research

Workshop on Migration and the Environment: Developing a Global Research Agenda held in Munich, Germany in April 2008. One of the key objectives on the Munich workshop was to address the need for more sound empirical research and identify priority areas of research for policy makers in the field of migration and the environment.

Agricultural Policy Monitoring and Evaluation 2022 Reforming Agricultural Policies for Climate Change Mitigation - OECD 2022-06-23

This annual report monitors and evaluates agricultural policies in 54 countries, including the 38 OECD countries, the five non-OECD EU Member States, and 11 emerging economies. It finds that the continued rise in agricultural support has been slower than sector growth in recent years, but has been driven to record highs mainly by temporary factors.

Managing the Risks of Extreme Events and Disasters to Advance Climate Change Adaptation - Christopher B. Field 2012-05-28

This Intergovernmental Panel on Climate Change Special Report (IPCC-SREX) explores the challenge of understanding and managing the risks of climate extremes to advance climate change adaptation. Extreme weather and climate events, interacting with exposed and vulnerable human and natural systems, can lead to disasters. Changes in the frequency and severity of the physical events affect disaster risk, but so do the spatially diverse and temporally dynamic patterns of exposure and vulnerability. Some types of extreme weather and climate events have increased in frequency or magnitude, but populations and assets at risk have also increased, with consequences for disaster risk. Opportunities for managing risks of weather- and climate-related disasters exist or can be developed at any scale, local to international. Prepared following strict IPCC procedures, SREX is an invaluable assessment for anyone interested in climate extremes, environmental disasters and adaptation to climate change, including policymakers, the private sector and academic researchers.

Understanding Options for Agricultural Production - G.Y. Tsuji 2013-03-14

The first premise of this book is that farmers need access to options for improving their

situation. In agricultural terms, these options might be management alternatives or different crops to grow, that can stabilize or increase household income, that reduce soil degradation and dependence on off-farm inputs, or that exploit local market opportunities. Farmers need a facilitating environment, in which affordable credit is available if needed, in which policies are conducive to judicious management of natural resources, and in which costs and prices of production are stable. Another key ingredient of this facilitating environment is information: an understanding of which options are viable, how these operate at the farm level, and what their impact may be on the things that farmers perceive as being important. The second premise is that systems analysis and simulation have an important role to play in fostering this understanding of options, traditional field experimentation being time-consuming and costly. This book summarizes the activities of the International Benchmark Sites Network for Agrotechnology Transfer (IBSNAT) project, an international initiative funded by the United States Agency for International Development (USAID). IBSNAT was an attempt to demonstrate the effectiveness of understanding options through systems analysis and simulation for the ultimate benefit of farm households in the tropics and subtropics. The idea for the book was first suggested at one of the last IBSNAT group meetings held at the University of Hawaii in 1993.

Food Anxiety in Globalising Vietnam - Judith Ehlert 2018-01-01

This open access book approaches the anxieties inherent in food consumption and production in Vietnam. The country's rapid and recent economic integration into global agro-food systems and consumer markets spurred a new quality of food safety concerns, health issues and distrust in food distribution networks that have become increasingly obscured. This edited volume further puts the eating body centre stage by following how gendered body norms, food taboos, power structures and social differentiation shape people's ambivalent relations with food. It uncovers Vietnam's trajectories of agricultural modernisation against which consumers and producers manoeuvre amongst food self-sufficiency,

security and abundance. Food Anxiety in Globalising Vietnam is explicitly about 'dangerous' food - regarding its materiality and meaning. It provides social science perspectives on anxieties related to food and surrounding discourses that travel between the local and the global, the individual and society and into the body. Therefore, the book's lens of food anxiety matters for social theory and for understanding the embeddedness and discontinuities of food globalizations in Vietnam and beyond. Due to its rich empirical base, methodological approaches and thematic foci, it will appeal to scholars, practitioners and students alike.--

State-Society Interaction in Vietnam - Huynh Thi Phuong Linh 2016

This book, based on anthropological research on local irrigation management in the Mekong Delta, sheds light on state-society interactions at the interface between bureaucratic and informal areas. Data from ethnographic case studies was framed abductively by an institutional bricolage approach (Cleaver 2012) and state power (Goebel 2011). The study goes beyond an institutions process and individual bargaining to argue that local irrigation management is guided by the co-evolution between the state and local actors. It is the everyday dialogue that, in the co-existence of the hierarchical state management structure and the space of local flexibility, officially and unofficially refines the local practices. (Series: ZEF Development Studies, Vol. 29) [Subject: Politics, Environmental Studies, Asian Studies, Agriculture
The Mekong Delta System - Fabrice G. Renaud 2012-06-01

This book about the Mekong Delta presents a unique collection of state-of-the-art contributions by international experts from different scientific disciplines about the characteristics and pressing water-related challenges of the Mekong Delta in Vietnam. The Mekong Delta belongs to one of the areas, which are to expect the largest challenges concerning environmental change and climate change induced sea level rise . The Delta acts as the "rice bowl" of Southeast Asia and is home to over 17 Million people, who need to cope with ecologic as well as socio-economic changes linked to the rapid economic development of the country. Annual floods, severe droughts, salt water intrusion, degrading

water quality, tropical cyclones, hydrologic changes due to hydropower projects in the upstream of the Mekong, coastal erosion, and the loss of biodiversity are some of the problems in the region. Heterogeneous resource management responsibilities, and the fact that the Mekong - and thus also the Delta - is influenced by six countries aggravate the situation. Integrated water resources management and fostered cooperation and information exchange are pressing needs for the sustainable development of the Delta.

Advances in Research on Water Resources and Environmental Systems - Phu Le Vo 2023-01-01

This book composes the proceedings of the international Conference on Geo-Spatial Technologies and Earth Resources (GTER 2022) which was co-organized by Hanoi University of Mining and Geology and the International Society for Mine Surveying (ISM) held at Hanoi city on October 13-14, 2022. GTER 2022 is technically co-sponsored by Vietnam Mining Science and Technology Association (VMST), Vietnam Association of Geodesy, Cartography and Remote Sensing (VGCR), Vietnam National Coal-Mineral Industries Holding Corporation Limited (VINACOMIN), and the Dong Bac Corporation (NECO). GTER 2022 aims to bring together experts, researchers, engineers, and policymakers to discuss and exchange their knowledge and experiences in recent advances research water resources and environmental systems.

Climate Change 2014 - Impacts, Adaptation and Vulnerability: Regional Aspects -

Christopher B. Field 2014-12-29

This latest Fifth Assessment Report of the IPCC will again form the standard reference for all those concerned with climate change and its consequences.

Hazardous Chemicals - Ernst Homburg 2019-08-01

Although poisonous substances have been a hazard for the whole of human history, it is only with the development and large-scale production of new chemical substances over the last two centuries that toxic, manmade pollutants have become such a varied and widespread danger. Covering a host of both notorious and little-known chemicals, the chapters in this collection investigate the emergence of specific toxic,

pathogenic, carcinogenic, and ecologically harmful chemicals as well as the scientific, cultural and legislative responses they have prompted. Each study situates chemical hazards in a long-term and transnational framework and demonstrates the importance of considering both the natural and the social contexts in which their histories have unfolded.

Measuring Vulnerability to Natural Hazards - Jörn Birkmann 2013

When societies attempt to plan for or rebuild in the aftermath of catastrophic natural disasters, organizers use terms such as "climate change adaptation," "building resilience," and "vulnerability and risk reduction." But what do these terms actually mean in the way of achievable goals? And how can a society accurately evaluate progress toward those goals? "Measuring Vulnerability to Natural Hazards" addresses these questions. The world is still reeling from several disasters of a magnitude rarely seen: the cascading disaster in Japan, the earthquake in Haiti, floods in Pakistan and Australia. These catastrophes underline the fact that many communities and regions are still vulnerable to extreme events and natural hazards. Additionally, creeping climate-related changes such as rising sea levels will seriously affect livelihoods in many areas. It's been estimated that more than 20 percent of the population in developing countries could face the risks of various hazards such as toxic buildups of salt in the soil, flooding, and coastal storm surges. The dynamic and complex interaction between vulnerable communities and natural hazards, climate-related and otherwise, probably increases the risk of crises and disasters in the future. "Measuring Vulnerability to Natural Hazards" combines practical examples from Africa, Asia, the Americas, and Europe with theoretical and conceptual frameworks for anticipating, preparing for, and responding to disasters. It is essential for all those interested in improving risk reduction and adaptation strategies to extreme events as well as gradual changes related to climate change and natural hazards.

Climate Change, Variability and Sustainable Food Systems - Victor Owusu 2023-02-16

World Seas: An Environmental Evaluation -

Charles Sheppard 2018-09-03

World Seas: An Environmental Evaluation, Second Edition, Volume Two: The Indian Ocean to the Pacific provides a comprehensive review of the environmental condition of the seas from the Indian Ocean to the Pacific. Each chapter is written by experts in the field who provide historical overviews in environmental terms, current environmental status, major problems arising from human use, informed comments on major trends, problems and successes, and recommendations for the future. The book is an invaluable worldwide reference source for students and researchers who are concerned with marine environmental science, fisheries, oceanography and engineering and coastal zone development. Covers regional issues that help countries find solutions to environmental decline that may have already developed elsewhere. Provides scientific reviews of regional issues, thus empowering managers and policymakers to make progress in under-resourced countries and regions. Includes comprehensive maps and updated statistics in each region covered.

Climate Change in Asia and the Pacific -

Venkatachalam Anbumozhi 2012-06-13

Climate change is one of the most significant challenges to global economic development. Left unchecked, continued global warming could cause worldwide social and environmental disruption. The Asia and Pacific region is more vulnerable to climate change risks than other regions due to its dependence on the natural resources and agriculture sectors. Densely populated coastal areas, weak institutions, and the poverty of a considerable proportion of its population add to the susceptibility of this region. Adaptation—making adjustments in natural or human systems in response to actual or expected climate stimuli—becomes a key strategy for sustaining economic growth. This volume examines the framework conditions for integrating climate change adaptation measures into agriculture, water, and natural resources management activities for the Asia and Pacific region. Based on the review of country experiences, the book describes key dimensions, suggests interventions for further exploration, and serves as a basis for planning and mainstreaming climate change adaptation into sectoral planning.

The State of the World's Land and Water Resources for Food and Agriculture - Food and Agriculture Organization of the United Nations 2013-06-17

The State of the World's Land and Water Resources for Food and Agriculture is FAO's first flagship publication on the global status of land and water resources. It is an 'advocacy' report, to be published every three to five years, and targeted at senior level decision makers in agriculture as well as in other sectors. SOLAW is aimed at sensitizing its target audience on the status of land resources at global and regional levels and FAO's viewpoint on appropriate recommendations for policy formulation. SOLAW focuses on these key dimensions of analysis: (i) quantity, quality of land and water resources, (ii) the rate of use and sustainable management of these resources in the context of relevant socio-economic driving factors and concerns, including food security and poverty, and climate change. This is the first time that a global, baseline status report on land and water resources has been made. It is based on several global spatial databases (e.g. land suitability for agriculture, land use and management, land and water degradation and depletion) for which FAO is the world-recognized data source. Topical and emerging issues on land and water are dealt with in an integrated rather than sectoral manner. The implications of the status and trends are used to advocate remedial interventions which are tailored to major farming systems within different geographic regions.

Advances in Social Simulation 2015 - Wander Jager 2017-03-16

This book highlights recent developments in the field, presented at the Social Simulation 2015 conference in Groningen, The Netherlands. It covers advances both in applications and methods of social simulation. Societal issues addressed range across complexities in economic systems, opinion dynamics and civil violence, changing mobility patterns, different land-use, transition in the energy system, food production and consumption, ecosystem management and historical processes. Methodological developments cover how to use empirical data in validating models in general, formalization of behavioral theory in agent

behavior, construction of artificial populations for experimentation, replication of models, and agent-based models that can be run in a web browser. Social simulation is a rapidly evolving field. Social scientists are increasingly interested in social simulation as a tool to tackle the complex non-linear dynamics of society. Furthermore, the software and hardware tools available for social simulation are becoming more and more powerful. This book is an important source for readers interested in the newest developments in the ways in which the simulation of social interaction contributes to our understanding and managing of complex social phenomena.

Advances in Agronomy - Donald L. Sparks 2019-07-26

Advances in Agronomy, Volume 157, continues to be recognized as a leading reference and first-rate source for the latest research in agronomy. Each volume contains an eclectic group of reviews by leading scientists throughout the world. As always, the subjects covered are rich, varied, and exemplary of the abundant subject matter addressed by this long-running serial. Includes numerous, timely, state-of-the-art reviews on the latest advancements in agronomy. Features distinguished, well recognized authors from around the world Builds upon this venerable and iconic review series Covers the extensive variety and breadth of subject matter in the crop and soil sciences

Nature-Based Solutions for Natural Hazards and Climate Change - Borja Gonzalez Reguero 2023-01-27

White Gold: The Commercialisation of Rice Farming in the Lower Mekong Basin - Rob Cramb 2020-01-03

This open access book is about understanding the processes involved in the transformation of smallholder rice farming in the Lower Mekong Basin from a low-yielding subsistence activity to one producing the surpluses needed for national self-sufficiency and a high-value export industry. For centuries, farmers in the Basin have regarded rice as "white gold", reflecting its centrality to their food security and well-being. In the past four decades, rice has also become a commercial crop of great importance to Mekong farmers, augmenting but not replacing its role in

securing their subsistence. This book is based on collaborative research to (a) compare the current situation and trajectories of rice farmers within and between different regions of the Lower Mekong, (b) explore the value chains linking rice farmers with new technologies and input and output markets within and across national borders, and (c) understand the changing role of government policies in facilitating the on-going evolution of commercial rice farming. An introductory section places the research in geographical and historical context. Four major sections deal in turn with studies of rice farming, value chains, and policies in Northeast Thailand, Central Laos, Southeastern Cambodia, and the Mekong Delta. The final section examines the implications for rice policy in the region as a whole.

Deltas in the Anthropocene - Robert J. Nicholls 2019-08-28

The Anthropocene is the human-dominated modern era that has accelerated social, environmental and climate change across the world in the last few decades. This open access book examines the challenges the Anthropocene presents to the sustainable management of deltas, both the many threats as well as the opportunities. In the world's deltas the Anthropocene is manifest in major land use change, the damming of rivers, the engineering of coasts and the growth of some of the world's largest megacities; deltas are home to one in twelve of all people in the world. The book explores bio-physical and social dynamics and makes clear adaptation choices and trade-offs that underpin policy and governance processes, including visionary delta management plans. It details new analysis to illustrate these challenges, based on three significant and contrasting deltas: the Ganges-Brahmaputra-Meghna, Mahanadi and Volta. This multi-disciplinary, policy-orientated volume is strongly aligned to the United Nation's Sustainable Development Goals as delta populations often experience extremes of poverty, gender and structural inequality, variable levels of health and well-being, while being vulnerable to extreme and systematic climate change.

Climate Change 2014 - Impacts, Adaptation and Vulnerability: Part B: Regional Aspects: Volume 2, Regional Aspects -

Intergovernmental Panel on Climate Change 2014-12-29

This latest Fifth Assessment Report of the Intergovernmental Panel on Climate Change (IPCC) will again form the standard reference for all those concerned with climate change and its consequences, including students, researchers and policy makers in environmental science, meteorology, climatology, biology, ecology, atmospheric chemistry and environmental policy.

Emerging Challenges to Food Production and Security in Asia, Middle East, and Africa - Mohamed Behnassi 2021-07-28

This book, as a part of a series of CERES publications, provides a multi-regional and cross-sectoral analysis of food and water security, especially in the era of climate risks, biodiversity loss, pressure on scarce resources, especially land and water, increasing global population, and changing dietary preferences. It includes both conceptual research and empirically-based studies, which provides context-specific analyses and recommendations based on a variety of case studies from Africa, Middle East, and Asia regarding the fostering of long-term resilience of food and water security. The core approach of the volume consists of: assessing the structural drivers affecting the vulnerability of food and water security, under the persistence of current trends; identifying the best solutions and practices to enhance the climate resilience for food and water security; and fostering climate adaptation and biodiversity protection for food and water security.

Drought Risk Management in South and South-East Asia - Indrajit Pal 2020-08-31

The geo-climatic conditions of South and South-East Asian countries are diverse and vulnerable to multiple natural hazards such as drought. Drought evolves over months or even years, affects a large spatial extent and causes enormous damages. Drought Risk Management in South and South-East Asia is a comprehensive reference on overall perspectives and scenarios on drought risk mitigation and management, based on researches and case studies from South and South-East Asian countries. Drought management is a complex area of work that requires active and continuous participation of the national, provincial and local governments,

multiple ministries, and divisions. This book demonstrates the best practices of socio-economic and technological interventions to enhance drought risk management, which will help to develop plans and policies, and their implementation to reduce the impact of droughts. It also offers views of field practitioners on impacts of the interventions practised at the national, sub-national and local levels.

River Deltas Research - Andrew J. Manning
2022-10-12

River deltas are among the most sensitive and widely exploited territories habitats on Earth. Although predominantly shallow aquatic environments, river deltas are extremely important environments socioeconomically and their usage places ever-increasing stresses on these habitats, especially where there is any anthropogenic involvement. The effective governance and administration of river delta regions often requires an intricate scientific understanding of the various contributory natural processes. *River Deltas Research - Recent Advances* is a book that draws on the most recent world-class scientific research on river delta topics including climate change, water quality, geomorphology, anthropogenic stresses, water quality, sedimentation, ecosystems, and many more. The research was carried out by researchers who specialise in the river deltas and related issues.

Technologies and Innovations for Development - Jean-Claude Bolay 2012-02-17

Technological innovation – combined with scientific research – has always constituted a driving force of transformation in our societies. At the same time, it is no longer simply possible to transfer technologies from the North to the South; it is also essential to consider technical innovations that are adapted to the social, environmental, cultural and economic conditions of receiving countries, and which can be appropriated by their potential users and as such prove to be real technologies for fostering development. The first International Scientific Conference on the topic organized by the UNESCO Chair Technologies for Development at the Ecole Polytechnique Fédérale de Lausanne in 2010 focused on its four priority sectors: Technologies for Sustainable Development of

Habitat and Cities, ICTs for the Environment, Science and Technology for Disaster Risk Reduction, and Technologies for the Production of Sustainable Energy. This volume reflects the main outcomes of the conference and provides some significant orientation and success criteria for the effective implementation and use of innovative technologies, their aims, their particular applications in the context of developing countries, their accessibility for users, and their appropriation by producers and stakeholders in the field of development both in the North and South, thus ensuring their sustainability. This kind of scientific cooperation also highlights the added values for northern researchers in sharing their knowledge and know-how, leading to a real win-win partnership. The authors gathered within this book include representatives from academic and research institutions and other organizations from diverse countries and offer a significant synergy of competences, approaches and disciplines.

Delta Waters - National Research Council
2013-12-12

The Water Institute of the Gulf is a not-for-profit, independent research institute dedicated to advancing the understanding of coastal, deltaic, river and water resource systems, both within the Gulf Coast and around the world. Their mission supports the practical application of innovative science and engineering, providing solutions that benefit society. Those who make policy for coastal and deltaic systems, as well as managers of natural resources, need high-quality science and engineering to guide their decisions. The Water Institute of the Gulf began operations in 2012 to address exactly this sort of challenge. *Delta Waters* offers advice to The Water Institute of the Gulf that it might use as part of its strategic planning process. This report focuses on strategic research to support integrated water resources management in the lower Mississippi River delta and includes international comparative assessments. The recommendations of *Delta Waters* promote a human and environmental systems approach to scientific research that supports integrated water and environmental resources management in the lower Mississippi River and delta, and offers ideas regarding comparative assessments with other, relevant deltaic regions around the

world. This report provides input for research into common deltaic problems and challenges, identifies strategic research for The Water Institute of the Gulf, and suggests ways that the organization can utilize knowledge gained from the lower Mississippi River and delta system in developing a research program to support water management decisions in other large river/delta complexes.

Climate Risks to Water Security - Hemant R. Ojha 2022

“Water is the primary medium through which the impacts of climate change are manifested. This book fleshes out the latest and contemporary science required to inform decision-making that spans from climate risk assessment to developing conducive policy measures in different socio-ecological zones for one of the most vulnerable regions in the world.” - Mukand Babel, Professor at Asian Institute of Technology and David Molden - former DG of ICIMOD and former DDG of IWMI “The experiences, insights and key lessons drawn from ground-based experiences across the Asia-Pacific are essential for water professionals worldwide grappling with how to deliver water security in the face of climate change. The authors and editors have done a commendable job in bringing to life a set of diverse realities, and then drawing timely lessons for all of us”. - David Molden This book takes stock of how climate change is impacting water security, across diverse socio-ecological zones and river basins in the region. It shows how interactions between climate, society, environment, and hydrology are exacerbating water insecurity. The book showcases emerging operational, management and policy responses, highlighting contextual lessons for securing the region's water future under changing climate. Chapters are written by researchers and practitioners engaged in a variety of socio-ecological zones, such as Himalayan springs, coastal cities, deltas, dry zones, wetlands, and Pacific islands, plus basin-scale analysis of the Yangtze, Murray-Darling and Lower Mekong. Through intersectoral analysis and a risk-focused approach, this book makes an important contribution to water management and climate resilience in the Asia-Pacific region and beyond. Hemant Ojha is Associate Professor, University

of Canberra, and Principal Advisor, IFSD, Sydney. Nicholas Schofield is Professorial Fellow, University of NSW, and Director Global Future Research. Jeff Camkin is Adjunct Professor, University of Western Australia and founding Editor-in-Chief, World Water Policy Journal. .

Climate Change Adjustments for Detailed Engineering Design of Roads - Asian Development Bank 2020-06-01

This knowledge product explains the rationale and procedures for incorporating allowances for climate change in detailed engineering design, with a focus on credible adjustments to extreme rainfall and to mean and high-end sea-level rise. Highlighting worked examples drawn from Viet Nam's road transport sector and peer-reviewed research literature, it offers a point of departure for more sophisticated assessments of high-risk projects. It presents principles and approaches extendable to other design variables (extreme air temperature, evaporation, and wind speed) and transferable to other sectors, regions, and stages of the asset life cycle (from project concept to decommissioning). An accompanying step-by-step manual shows how each calculation is performed.

Successful Adaptation to Climate Change - Susanne C. Moser 2013-07-18

What does successful adaptation look like? This is a question we are frequently asked by planners, policy makers and other professionals charged with the task of developing and implementing adaptation strategies. While adaptation is increasingly recognized as an important climate risk management strategy, and on-the-ground adaptation planning activity is becoming more common-place, there is no clear guidance as to what success would look like, what to aim for and how to judge progress. This edited volume makes significant progress toward unpacking the question of successful adaptation, offering both scientifically informed and practice-relevant answers from various sectors and regions of the world. It brings together 18 chapters from leading experts within the field to present careful analyses of different cases and situations, questioning throughout commonly avowed truisms and unspoken assumptions that have pervaded climate adaptation science and practice to date.

This book offers not one answer but demonstrates how the question of success in important ways is normative and context specific. It identifies the various dimensions of success, such as economic, political, institutional, ecological, and social, explores the tensions between them, and compiles encouraging evidence that resolutions can be found. The book appraises how climatic and non-climatic stressors play a role, what role science does and can play in adaptation decision making, and how trade-offs and other concerns and priorities shape adaptation planning and implementation on the ground. This is timely interdisciplinary text sheds light on key issues that arise in on-the-ground adaptation to climate change. It bridges the gap between science and practical application of successful adaptation strategies and will be of interest to both students, academics and practitioners.

Ecological Wisdom - Bo Yang 2019-01-16

This book offers an introduction to the theory and practice of ecological wisdom (EW). EW is the integration of robust contemporary science with proven cultural and historical practices to identify long-term, sustainable solutions to problems of environmental management and urban design. The book combines theoretical concepts with specific case studies, illustrating the opportunities for interdisciplinary approaches combining historical experience, cultural context, and contemporary science as effective strategies for addressing complex problems confronting metropolitan and rural environmental and resource management in areas such as land use, water management, materials and building engineering, urban planning, and architecture and design. EW transcends the limitations in these fields of the normative approaches of modernity or traditional wisdom by offering a new, synthetic strategy to address socio-ecological issues. By presenting these ideas both theoretically and through existing case studies, the book provides researchers, practitioners and students with a powerful new perspective in developing long-term, resilient solutions to existing socio-environmental challenges. It is intended mainly for those working or interested in the fields of sustainable environmental and resource management, city and regional planning,

architecture and design, civil engineering, landscape architecture, and the philosophy of science, particularly those with an ecological or sustainability focus.

Flood recession agriculture for food security in Northern Ghana - Sidibe, Yoro 2016-02-26

This review describes a range of physical and socio-economic scientific methods and field activities that will be implemented in a proposed research project to develop a better understanding of the extent and patterns of flooding and the potential of flood-recession agriculture. These activities will allow the hydrological characteristics of the river to be matched to crop-livestock systems of flood recession agriculture that are well suited to the study communities and their organizational and institutional frameworks in order to support sustainable growth of such systems. This detailed study will provide recommendations on the technical, economic, institutional and policy measures needed to achieve sustainable intensification of flood recession agriculture in northern Ghana, while complementing efforts undertaken to promote other types of water management systems. Options for out-scaling of flood recession agriculture beyond the study area to other suitable areas will also be explored. The expectation is that the proposed project will improve food security by enhancing knowledge on effective flood recession practices, enhance rural incomes through expanded dry-season farming with new opportunities for rural employment, and improve adaptation to climate change by building more resilient farming communities. To achieve these expected outcomes, proactive policies that clearly identify flood recession agriculture as an alternative farming practice and provide institutional mandates to irrigation support services to promote it through training, demonstration, and outreach programs will be equally valuable. *Global Environment Outlook – GEO-6: Healthy Planet, Healthy People* - UN Environment 2019-06-06
Published to coincide with the Fourth United Nations Environmental Assembly, UN Environment's sixth Global Environment Outlook calls on decision makers to take bold and urgent action to address pressing environmental issues

in order to protect the planet and human health. By bringing together hundreds of scientists, peer reviewers and collaborating institutions and partners, the GEO reports build on sound scientific knowledge to provide governments, local authorities, businesses and individual citizens with the information needed to guide societies to a truly sustainable world by 2050. GEO-6 outlines the current state of the environment, illustrates possible future environmental trends and analyses the effectiveness of policies. This flagship report shows how governments can put us on the path to a truly sustainable future - emphasizing that urgent and inclusive action is needed to achieve a healthy planet with healthy people. This title is also available as Open Access on Cambridge Core.

Biodiversity associated with the rice field agroecosystem in Asian countries: A brief review
- Channa N. B. Bambaradeniya 2004

This review is intended to bring together the published information available on the biodiversity associated with the rice field agroecosystem, in countries extending across Asia from Sri Lanka to Japan. The intention is to provide a synthesis that would enable us to better appreciate the environmental services and opportunities for biodiversity conservation offered by rice fields, as the additional benefits and contribution of these major food-producing agroecosystems. Since this review is based mainly on published information in the English language public domain, such limitation of the exercise might result in a bias towards those countries where the published and/or accessible information exists. In order to reduce such bias, attempts were made to review unpublished "grey" literature as well, although this was by no means comprehensive.

Environmental Change and Agricultural Sustainability in the Mekong Delta - Mart A. Stewart 2011-05-13

The Mekong Delta of Vietnam is one of the most productive agricultural areas in the world. The Mekong River fans out over an area of about 40,000 sq kilometers and over the course of many millennia has produced a region of fertile alluvial soils and constant flows of energy. Today about a fourth of the Delta is under rice cultivation, making this area one of the premier

rice granaries in the world. The Delta has always proven a difficult environment to manipulate, however, and because of population pressures, increasing acidification of soils, and changes in the Mekong's flow, environmental problems have intensified. The changing way in which the region has been linked to larger flows of commodities and capital over time has also had an impact on the region: For example, its re-emergence in recent decades as a major rice-exporting area has linked it inextricably to global markets and their vicissitudes. And most recently, the potential for sea level increases because of global warming has added a new threat. Because most of the region is on average only a few meters above sea level and because any increase of sea level will change the complex relationship between tides and down-river water flow, the Mekong Delta is one of the areas in the world most vulnerable to the effects of climate change. How governmental policy and resident populations have in the past and will in coming decades adapt to climate change as well as several other emerging or ongoing environmental and economic problems is the focus of this collection.

Transforming Coastal Zone for Sustainable Food and Income Security - T.D. Lama 2022-08-09

Coastal areas are commonly defined as the interface or transition areas between land and sea, including large inland lakes. Overall, about 50-70 % of the global population live within 100 km of the coastline covering only about 4 % of earth's land, thereby drawing heavily on coastal and marine habitats for food, building sites, transportation, recreational areas, and waste disposal. The people of these zones depend mainly on low productive agriculture due to several constraints such as prolonged water logging and drainage congestion in predominantly low-lying areas with heavy soils during the wet season, preponderance of saline and acid sulphate soils, scarcity of good quality irrigation water, particularly in the dry season, seawater intrusion into adjoining lands, and water pollution due to eutrophication, and others affecting the aquatic habitats, etc. Carbon sequestration in coastal areas, such as, marshes, lagoons, etc. has significant influence on soil quality, and the carbon pool in soils as well as their impacts on the environment. Over and

above these, the coastal areas are prone to disasters due to climate change leading to colossal loss of lives and properties in many areas. Forestry and mangrove dynamics, in particular, because of their continuing diminishing nature, are also subjects of interest affecting the ecology of coastal zones requiring appropriate attention. The international symposium held in this context on 'Transforming Coastal Zones for Sustainable Food and Income Security' in virtual mode in March, 2021 offered scope to present and discuss various thematic areas by eminent scientists from all over the world. The proceedings of selected papers presented reflect cross-sectoral views of the areas highlighting, wherever necessary, a fusion of technologies, with the ultimate target to suggest livelihood security and sustainable development for the sensitive coastal zones. The book intends to share the knowledge with researchers, academicians, and various other stakeholders to address the complex problems of coastal regions, production constraints, social, economic, technical and environmental issues to draw out strategies for resilient agricultural technologies and improving livelihood security in coastal agro-ecosystems.

Integrated Water Resources Management in the Mediterranean Region - Redouane Choukr-Allah 2012-10-03

This book puts great emphasis on the importance of Integrated Water Resources Management IWRM as the way forward towards food, water, and energy security. It offers better ways and means of managing the limited water resources; using water more efficiently; adopting new policies in order to cope with climate change and drought; increase water supply through the use of non conventional water resources, especially waste water; inducing stakeholders participation and information exchange and raise public awareness to the value of water. It is an important book for all those involved in all aspects of water resources and contains valuable information for scientists, researchers, farmers,

extension services and students.

Transformative Learning in Practice - Jack Mezirow 2011-01-04

The leading authorities in the field produced this comprehensive resource, which provides strategies and methods for fostering Transformative Learning (TL) practice in a wide variety of higher and adult education settings. The book answers relevant questions such as: What are effective practices for promoting TL in the classroom? What is it about TL that is most helpful in informing practice? How does the teaching setting shape the practice of TL? What are the successes, strengths, and outcomes of fostering TL? What are the risks and challenges when practicing TL in the classroom?

The United Nations World Water Development Report 2020 - UNESCO 2020-03-27

The 2020 edition of the WWDR, titled Water and Climate Change illustrates the critical linkages between water and climate change in the context of the broader sustainable development agenda. Supported by examples from across the world, it describes both the challenges and opportunities created by climate change, and provides potential responses - in terms of adaptation, mitigation and improved resilience - that can be undertaken by enhancing water resources management, attenuating water-related risks, and improving access to water supply and sanitation services for all in a sustainable manner. It addresses the interrelations between water, people, environment and economics in a changing climate, demonstrating how climate change can be a positive catalyst for improved water management, governance and financing to achieve a sustainable and prosperous world for all. The report provides a fact-based, water-focused contribution to the knowledge base on climate change. It is complementary to existing scientific assessments and designed to support international political frameworks, with the goals of helping the water community tackle the challenges of climate change, and informing the climate change community about the opportunities that improved water management offers in terms of adaptation and mitigation.