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Natural Experiments: Ecosystem-Based Management and the ...

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In Natural Experiments, Judy Layzer poses some tough but essential questions about the efficacy of Ecosystem Based Management (EBM). Layzer, a member of MIT's Department of Urban Studies and Planning, asks “ whether ecosystem based management produces in practice the benefits promised in theory. ”

Natural Experiments: Ecosystem Based Management and the ...  
reinvigorate efforts to mitigate human impacts on the natural world. Among the most potentially revolutionary of the new approaches was ecosystem management, now more commonly known as ecosystem-based management (EBM).<sup>1</sup> Scholars and practitioners have offered dozens of formal definitions, but most agree that at a minimum EBM

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Scholars, scientists, and policymakers have hailed ecosystem-based management (EBM) as a remedy for the perceived shortcomings of the centralized, top-down, expert-driven environmental regulatory framework established in the United States in the late 1960s and early 1970s.

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Scholars, scientists, and policymakers have hailed ecosystem-based management (EBM) as a remedy for the perceived shortcomings of the centralized, top-down, expert-driven environmental regulatory framework established in the United States in the late 1960s and early 1970s. EBM entails collaborative, landscape-scale planning, and flexible, adaptive implementation.

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This systematic assessment of seven prominent initiatives is the first to evaluate the effectiveness of ecosystem-based management at protecting the environment. Scholars, scientists, and policymakers have hailed ecosystem-based management (EBM) as a remedy for the perceived shortcomings of the centralized, top-down, expert-driven environmental regulatory framework established in the United States in the late 1960s

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and early 1970s. EBM entails collaborative, landscape-scale planning and flexible, adaptive implementation. But although scholars have analyzed aspects of EBM for more than a decade, until now there has been no systematic empirical study of the overall approach. In *Natural Experiments*, Judith Layzer provides a detailed assessment of whether EBM delivers in practice the environmental benefits it promises in theory. She does this by examining four nationally known EBM initiatives (the Balcones Canyonlands Conservation Program in Austin, Texas, the San Diego Multiple Species Program, the Comprehensive Everglades Restoration Plan, and the California Bay-Delta Program) and three comparison cases that used more conventional regulatory approaches (Arizona's Sonoran Desert Conservation Plan and efforts to restore Florida's Kissimmee River and California's Mono Basin). Layzer concludes that projects that set goals based on stakeholder collaboration, rather than through conventional politics, are less likely to result in environmental improvement, largely because the pursuit of consensus drives planners to avoid controversy and minimize short-term costs. Layzer's resolutely practical focus cuts through the ideological and theoretical arguments for and against EBM to identify strategies that hold genuine promise for restoring the ecological resilience of our landscapes.

Answers to environmental issues are not black and white. Debates around policy are often among those with fundamentally different values, and the way that problems and solutions are defined plays a central role in shaping how those values are translated into policy. *The Environmental Case* captures the real-world complexity of creating environmental policy, and this much-anticipated Fifth Edition contains fifteen carefully constructed cases. Through her analysis, Sara Rinfret explores the background, players, contributing factors, and outcomes of each case, and gives readers insight into some of the most interesting and controversial issues in U.S. environmental policymaking.

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Conventional management approaches cannot meet the challenges faced by ocean and coastal ecosystems today. Consequently, national and international bodies have called for a shift toward more comprehensive ecosystem-based marine management. Synthesizing a vast amount of current knowledge, *Ecosystem-Based Management for the Oceans* is a comprehensive guide to utilizing this promising new approach. At its core, ecosystem-based management (EBM) is about acknowledging connections. Instead of focusing on the impacts of single activities on the delivery of individual ecosystem services, EBM focuses on the array of services that we receive from marine systems, the interactive and cumulative effects of multiple human activities on these coupled ecological and social systems, and the importance of working towards common goals across sectors. *Ecosystem-Based Management for the Oceans* provides a conceptual framework for students and professionals who want to understand and utilize this powerful approach. And it employs case studies that draw on the experiences of EBM practitioners to demonstrate how EBM principles can be applied to real-world problems. The book emphasizes the importance of understanding the factors that contribute to social and ecological resilience —the extent to which a system can maintain its structure, function, and identity in the face of disturbance. Utilizing the resilience framework, professionals can better predict how systems will respond to a variety of disturbances, as well as to a range of management alternatives. *Ecosystem-Based Management for the Oceans* presents the latest science of resilience, while it provides tools for the design and implementation of responsive EBM solutions.

The object of this book is to highlight how the nascent field of sustainability science is addressing a key challenges for scientists; that is, understanding the workings of complex systems especially when humans are involved. A consistent thread in the sustainability science movement is the wide acknowledgement that

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greater degrees of integration across what are now segmented dimensions of extant Science and Technology systems will be a key factor in matching the most appropriate science and technology solutions to specific sustainability problems in specific places.

Prior to the Nixon administration, environmental policy in the United States was rudimentary at best. Since then, it has evolved into one of the primary concerns of governmental policy from the federal to the local level. As scientific expertise on the environment rapidly developed, Americans became more aware of the growing environmental crisis that surrounded them. Practical solutions for mitigating various aspects of the crisis - air pollution, water pollution, chemical waste dumping, strip mining, and later global warming - became politically popular, and the government responded by gradually erecting a vast regulatory apparatus to address the issue. Today, politicians regard environmental policy as one of the most pressing issues they face. The Obama administration has identified the renewable energy sector as a key driver of economic growth, and Congress is in the process of passing a bill to reduce global warming that will be one of the most important environmental policy acts in decades. The Oxford Handbook of U.S. Environmental Policy will be a state-of-the-art work on all aspects of environmental policy in America. Over the past half century, America has been the world's leading emitter of global warming gases. However, environmental policy is not simply a national issue. It is a global issue, and the explosive growth of Asian countries like China and India mean that policy will have to be coordinated at the international level. The book will therefore focus not only on the U.S., but on the increasing importance of global policies and issues on American regulatory efforts. This is a topic that will only grow in importance in the coming years, and this will serve as an authoritative guide to any scholar interested in the issue.

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Social Network Analysis (SNA), a quantitative approach to the study of social relations, has recently emerged as a key tool for understanding the governance of natural resources. Bringing together contributions from a range of researchers in the field, this is the first book to fully explore the potential applications of SNA in the context of natural resource management. Topics covered include the role of SNA in stakeholder selection; improving fisheries management and conservation; the effect of social network ties on public satisfaction and agrarian communication networks. Numerous case studies link SNA concepts to the theories underlying natural resource governance, such as social learning, adaptive co-management and social movements theory. Reflecting on the challenges and opportunities associated with this evolving field, this is an ideal resource for students and researchers involved in many areas of natural resource management, environmental biology, sustainability science and sociology.

Conservation for the Anthropocene Ocean: Interdisciplinary Science in Support of Nature and People emphasizes strategies to better connect the practice of marine conservation with the needs and priorities of a growing global human population. It conceptualizes nature and people as part of shared ecosystems, with interdisciplinary methodologies and science-based applications for coupled sustainability. A central challenge facing conservation is the development of practical means for addressing the interconnectedness of ecosystem health and human well-being, advancing the fundamental interdisciplinary science that underlies conservation practice, and implementing this science in decisions to manage, preserve, and restore ocean ecosystems. Though humans have intentionally and unintentionally reshaped their environments for thousands of years, the scale and scope of human influence upon the oceans in the Anthropocene is unprecedented. Ocean science has increased our knowledge of the threats and impacts to ecological integrity, yet the unique scale and scope of changes increases uncertainty about responses of dynamic socio-

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ecological systems. Thus, to understand and protect the biodiversity of the ocean and ameliorate the negative impacts of ocean change on people, it is critical to understand human beliefs, values, behaviors, and impacts. Conversely, on a human-dominated planet, it is impossible to understand and address human well-being and chart a course for sustainable use of the oceans without understanding the implications of environmental change for human societies that depend on marine ecosystems and resources. This work therefore presents a timely, needed, and interdisciplinary approach to the conservation of our oceans. Helps marine conservation scientists apply principles from oceanography, ecology, anthropology, economics, political science, and other natural and social sciences to manage and preserve marine biodiversity Facilitates understanding of how and why social and environmental processes are coupled in the quest to achieve healthy and sustainable oceans Uses a combination of expository material, practical approaches, and forward-looking theoretical discussions to enhance value for readers as they consider conservation research, management and planning

The Creation of Markets for Ecosystem Services in the United States is a detailed analysis of the most advanced efforts to create markets for ecosystem services in the United States. With the help of in-depth case studies of three well-known attempts to create such markets – in the Chesapeake Bay watershed, the Ohio River basin and the Willamette River basin – the book explains why very few of these markets have actually succeeded even after close to two decades of much scholarly enthusiasm, significant federal funding and concerted efforts by NGOs, government agencies and private businesses. Based on interviews, policy analysis and participatory observation, three features of markets for ecosystem services emerge as particularly problematic. First, the logic of displacement or the idea that particular elements of an ecosystem can be separated and traded across landscapes or watersheds runs counter to political interests, environmental beliefs and people's connections to specific places. The second problem is that of measurement.

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Quantification methods embed a range of often contentious assumptions and decisions about what counts when restoring ecosystems. The third problem is related to participation in environmental decision-making.

Coastal Governance provides a clear overview of how U.S. coasts are currently managed and explores new approaches that could make our shores healthier. Drawing on recent national assessments, Professor Richard Burroughs explains why traditional management techniques have ultimately proved inadequate, leading to polluted waters, declining fisheries, and damaged habitat. He then introduces students to governance frameworks that seek to address these shortcomings by considering natural and human systems holistically. The book familiarizes students not only with current management techniques but with the policy process. By focusing on policy development, Coastal Governance prepares readers with the knowledge to participate effectively in a governance system that is constantly evolving. This understanding will be critical as students become managers, policymakers, and citizens who shape the future of the coasts.

This book assesses the Collaborative Forest Landscape Restoration Program (CFLRP) and identifies lessons learned for governance and policy through this new and innovative approach to collaborative forest management. Unlike anything else in US public land management, the CFLRP is a nationwide program that requires collaboration throughout the life of national forest restoration projects, joining agency partners and local stakeholder groups in a kind of decade-long restoration marriage. This book provides a comprehensive assessment of the governance dynamics of the program, examining: questions about collaborative governance processes and the dynamics of trust, accountability and capacity; how scientific information is used in making decisions and integrated into adaptive management processes; and the topic of collaboration through implementation, an underdeveloped area of collaborative governance literature. Bringing together

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chapters from a community of social science and policy researchers who have conducted studies across multiple CFLRP projects, this volume generates insights, not just about the program, but also about dynamics that are central to collaborative and landscape approaches to land management and relevant for broader practice. This volume is a timely and important contribution to environmental governance scholarship. It will be of interest to researchers and students of natural resource management, environmental governance, and forestry, as well as practitioners and policy makers involved in forest and ecosystem restoration efforts, and collaborative natural resource management more broadly.

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