

THE ECOLOGY OF RIVER SYSTEMS

Edited by

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Ecology Of River Systems

Gene E. Likens



Ecology Of River Systems:

The Ecology of River Systems Bryan R. Davies, Keith F. Walker, 2013-03-09 Our understanding of the ecology of running waters has come a long way during the past few years. From being a largely descriptive subject with a few undertones concerned with such things as fisheries pollution or control of blackflies, it has evolved into a discipline with hypotheses such as the River Continuum Concept (Vannote et al. 1980) and even a book suggesting that it offers opportunity for the testing of ecological theory (Barnes Minshall 1983). However, perusal of the literature reveals that although some of the very early studies were concerned with large rivers (references in Hynes 1970), the great mass of the work that has been done on running water has been on streams and small rivers, and information on larger rivers is either on such limited topics as fisheries or plankton scattered among the journals or not available to the general limnologist. The only exceptions are a few books in this series of publications such as those on the Nile (Rz6ska 1976), the Volga (Morduckai Boltovskoi 1979) and the Amazon (Sioli 1984) and the recent compendium by Whitton (1984) on European rivers, among which there are a few that rate as large. *Man and River Systems* Josselin Garnier, J.-M. Mouchel, 2013-04-17 The volume focuses on the ecological functioning of rivers, which has received less attention than functioning of lakes and reservoirs. The selected papers cover a large range of topics relating to aquatic communities, eutrophication, nutrient dynamics and organic pollution, erosion and sediment transport, and fate of micropollutants at the basin scale. Integrated approaches developed in order to study the ecological functioning of fluvial systems perturbed by human activity are presented. This functioning is analysed from the point of view of fundamental research, but insights into system management are not neglected. This book will be of interest to researchers in the field of aquatic ecology, river system functioning and water surface pollution, to postgraduate students, to the institutions involved in water resource management and to the drinking water and waste water treatment industries. It draws information from many large river systems in the world. Ecology of River Narmada K. Sankaran Unni, 1996 The book gives a detailed study of the physico-chemical, biological and bacteriological assessment of water pollution in the largest west-flowing central Indian river. **The River Chief System and An Ecological Initiative for Public Participation in China** Yaguang Hao, Tingting Wan, 2023-08-01 This book provides an alternative agenda to deepening the understanding of the River Chief System as a distinctive responsibility approach to solve water pollution and associated governance dilemmas. Insightful analysis is performed through in-depth studies of the origins of China's River Chief System, responsibility mechanisms, governmental and civil river chiefs, formal and informal water governing institutions, public participation, empowerment with accountability and the environmental impact. *Assessing the Ecological Integrity of Running Waters* M. Jungwirth, S. Muhar, S. Schmutz, 2000-06-30 The assessment of the ecological integrity of running waters is a prerequisite to an understanding of the effects of human alterations. The evaluation of degradation processes provides key information on how to avoid further negative impacts. The success of future conservation, mitigation and restoration activities will rely on sound

assessment methodologies and their ecological relevance and applicability Assessment methodologies are therefore an integral part of sustainable river management This book synthesizes and discusses state of the art experiences in assessment methodologies Including the latest knowledge on structures processes and functions of running waters as a fundamental basis for developing adequate assessment methods the book focuses on method development application and in particular on integrated assessment methods This book is directed at scientists and managers with the aim of more effective preservation restoration and maintenance of the ecological integrity of running water ecosystems The Biology and Ecology of Streams and Rivers Alan Hildrew,Paul Giller,2023-06-19 The challenges that the world s running water systems now face have never been more numerous or acute at the same time these complex habitats remain absolutely crucial to human wellbeing and future survival If rivers can ever be anything like sustainable ecology needs to take its place as an equal among the physical sciences such as hydrology and geomorphology A real understanding of the natural history and ecology of running waters must now be brought even more prominently into river management The primary purpose of this textbook is to provide the up to date overview that students and practitioners will require to achieve this aim The book s unifying focus is on rivers and streams as ecosystems in which the particular identity of organisms is not the main emphasis but rather the processes in which they are involved specifically energy flow and the cycling of materials It builds on the physicochemical foundations of the habitat templet and explores the diversity and adaptations of the biota progressing from the population and community ecology of organisms and linking them to ecosystem processes and services in the wider biosphere via the complexities of species interactions and food webs These include water quality and patterns of river discharge as well as aesthetics waste disposal and environmental health While the book is not primarily focused on application per se each chapter addresses how humans affect rivers and in turn are affected by them A final future oriented chapter identifies key strategic areas and sets a roadmap for integrating knowledge of natural history and ecology into policy and management The Biology and Ecology of Streams and Rivers is an accessible text suitable for both senior undergraduate and graduate students taking courses in both lotic and general ecology as well as more established researchers practitioners managers and conservationists requiring a concise and contemporary overview of running waters River Ecosystem Ecology Gene E. Likens,2010-03-29 A derivative of the Encyclopedia of Inland Waters River Ecosystem Ecology reviews the function of rivers and streams as ecosystems as well as the varied activities and interactions that occur among their abiotic and biotic components Because the articles are drawn from an encyclopedia the articles are easily accessible to interested members of the public such as conservationists and environmental decision makers Includes an up to date summary of global aquatic ecosystems and issues Covers current environmental problems and management solutions Features full color figures and tables to support the text and aid in understanding River and Stream Ecosystems of the World Colbert E. Cushing,Kenneth W. Cummins,G. Wayne Minshall,2006-02-06 This ia a synopsis and review of the major rivers of the world **Water and Ecological System:**

Response, Management, and Restoration, volume II Chunhui Li, Qiang Liu, Celso Santos, Yujun Yi, 2025-05-29 This Research Topic is Volume II of a series The previous volume can be found here [Water and Ecological System Response Management and Restoration](#) Climate change and the intensification of human activities can induce unprecedented alterations in global hydrological and ecological systems Under the warming world ecological systems have different hydrological responses to changes in climate and human activities and have different water demands in different basins or regions However the hydrological and ecological system response remains uncertain Water resources management and ecological restoration under a changing world need to elucidate its hydrological and ecological response and then provide a suitable way to adapt to global change This Research Topic aims to collect and present the latest research developments in hydrological and ecological response in different basins or regions and its implication for water resources management and ecological restoration Articles published in this Research Topic would elucidate divergent evidence in hydrological and ecological response explain it with new and deep insight and interpret its implication for ecological water demand water resources management and planning ecological restoration These articles are expected to benefit communities basins and government agencies in water and ecosystem management that deal with hydrological and ecological responses in changing world

Riverine Ecology Volume 2 Susanta Kumar Chakraborty, 2021-02-27 This book is part of a two volume set that offers an innovative approach towards developing methods and tools for assigning conservation categories of threatened taxa and their conservation strategies by way of different phases of eco restoration in the context of freshwater river systems of tropical bio geographic zones The set provides a considerable volume of research on the biodiversity component of river ecosystems seasonal dynamics of physical chemical parameters geo hydrological properties types sources and modes of action of different types of pollution river restoration strategies and methodologies for the ongoing ecological changes of river ecosystems Volume 2 highlights biodiversity potential in aiding the resistance and resilience of riverine ecosystem functioning and their synergistic effects on ongoing environmental perturbations Comprehensive information on the conservation of river associated wildlife is provided covering the impacts of pollution land use changes river policies and ecosystem restoration strategies The book offers an innovative approach towards developing methods and tools for assigning conservation categories of threatened taxa and covers their conservation strategies by way of different phases of eco restoration in the context of freshwater river systems of tropical bio geographic zones

[Handbook of Engineering Hydrology \(Three-Volume Set\)](#) Saeid Eslamian, 2018-10-03 While most books examine only the classical aspects of hydrology this three volume set covers multiple aspects of hydrology and includes contributions from experts from more than 30 countries It examines new approaches addresses growing concerns about hydrological and ecological connectivity and considers the worldwide impact of climate change

[Gravel-bed Rivers in the Environment](#) Peter C. Klingeman, Paul D. Komar, Robert L. Beschta, 1998 Read what over 60 internationally recognized authors say about fluvial processes the

environment and management of gravel bed rivers Learn about efforts to restore more natural ecosystem functions to adversely impacted rivers And for some mind stretching consider the hydraulic geomorphic implications of cataclysmic floods on Earth and Mars Beginning in 1980 and held at five year intervals these workshops have brought together leading international researchers to present and discuss new results concepts and state of the art methods to analyze fluvial processes in and manage gravel bed rivers The fourth workshop was held at Gold Bar Washington near the dynamic Skykomish River and strikingly beautiful Cascade Mountains Workshop papers and discussions are published to document new concepts and ideas for broad use by those who study manage or have general interests in rivers This fourth Gravel Bed Rivers Workshop covers three focus topics The first topic reviews new developments regarding fluvial processes sediment transport and channel morphology in eight chapters on distinct subjects The second and third focus topics strongly emphasize gravel beds rivers in the environment their influences and their management in the next 19 chapters River restoration is examined for large European and North American rivers as parts of several of the environment management chapters Seven appended short papers report on research in progress presented at the Workshop in a poster discussion session Also included are two special interest chapters on giving a detailed analysis and morphologic hydraulic interpretation of cataclysmic floods and one summarizing a field exercise in management options for a long braided meandering reach of the Skykomish River near Gold Bar Publisher s description

Socio-Ecological Systems and Decoloniality Deepa Pullanikkatil, Kerry Hughes, 2023-01-01 This contributed volume provides case studies from around the world that feature a convergence of indigenous and western knowledge in an attempt to understand complex socio ecological systems The book provides an understanding of socio ecological systems in an ethical space using a Decoloniality approach i e untangling the production of knowledge from a primarily Eurocentric episteme The work presented here integrates and merges indigenous knowledge with western science thereby building on the strengths of each in service of understanding these systems The editors of this volume approach indigenous communities and scientists as equal knowledge holders and in doing so contributes towards improved understanding of socio ecological systems and interactions in cross cultural contexts This volume will be of interest to scientists instructors students and policy makers across disciplines such as environmental sciences social sciences interdisciplinary studies cultural studies ethnobotany anthropology and plant genetic resources

Sustainable Ecological Systems W. Wallace Covington, Leonard F. DeBano, 1994 This conference brought together scientists and managers from federal state and local agencies along with private sector interests to examine key concepts involving sustainable ecological systems and ways in which to apply these concepts to ecosystem management Session topics were ecological consequences of land and water use changes biology of rare and declining species and habitats conservation biology and restoration ecology developing and applying ecological theory to management of ecological systems and forest health and sustainable ecosystems to respond to human needs A plenary session established the philosophical and historical

contexts for ecosystem management Title page verso

Floods Dennis J. Parker, 2000 A comprehensive collection of new research An extensive range of case studies covering major floods and regions prone to flooding worldwide *Ecological Significance of River Ecosystems* Sugghosh Madhav, Shyam Kanhaiya, Arun Lal Srivastav, Virendra Bahadur Singh, Pardeep Singh, 2022-01-12 *Ecological Significance of Riparian Ecosystems* Challenges and Management Strategies examines the current issues related to river ecosystems their environmental importance pollution issues and potential management strategies The book is divided into 4 key themes Basics of river ecosystem Natural phenomenon of river ecosystem Human induced problems of river ecosystem and Management measures for the river ecosystem Through these four themes the contributors present both practical and theoretical aspects of river ecosystem in changing climate An emphasis has been made on the recent research of climate change and its impact on the river ecosystem River ecosystems have tremendous potential to store CO₂ however with changing climatic and anthropogenic activities these habitats are under threat and river ecosystems are losing the very vital service of storing carbon Unlike well documented terrestrial biodiversity the biodiversity in aquatic ecosystems is still unrecognized to some extent Presents an understanding of the biogeochemical processes of river ecosystems achieved by food webs and diverse biogeochemical processes Covers sediment dynamics and nutrient chemistry hot topics in river ecosystems Includes environmental pollution issues in river ecosystems from various anthropogenic activities

The Rivers Handbook Peter P. Calow, Geoffrey E. Petts, 2009-07-08 Fast changing legislation and increasing environmental awareness within the non scientific community demands that the modern approach to the management of rivers and water resources should be based on a sound understanding and application of the scientific and ecological principles that underlie freshwater processes In two volumes The Rivers Handbook offers an expert and exhaustive insight into the principles methods and tools of modern river management always within an integrated and environmentally acceptable framework This second volume develops the principles and philosophies expounded in the first volume into the management sphere organizing the approach around problems diagnosis and treatment A fully comprehensive reference to sound methods of modern river management The ideal information resource for all river managers *Ecological Monitoring, Assessment, and Management in Freshwater Systems* Young-Seuk Park, Soon-Jin Hwang, 2018-09-27 This book is a printed edition of the Special Issue *Ecological Monitoring Assessment and Management in Freshwater Systems* that was published in *Water*

Water and ecological system: Response, management, and restoration Chunhui Li, Qiang Liu, Celso Santos, 2023-03-31 *Guidelines for the Constitution of Ecological River Networks* Edit Wenger, Council of Europe. Committee for the Activities of the Council of Europe in the field of Biological and Landscape Diversity, 2002-01-01 The Pan European Biological Network is intended to ensure that ecosystems habitats populations of species and landscapes of European importance are maintained in a good state of conservation It aims to restore the biodiversity which is seriously endangered in Europe Water courses and the environments associated with them are natural corridors used by both animal

species and humans With their great natural wealth connecting numerous elements within the corridor both longitudinally and laterally they are essential elements in the constitution of the Pan European Ecological Network

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