

INTERMITTENT RIVERS AND EPHEMERAL STREAMS

ECOLOGY AND MANAGEMENT

Edited by

Thibault Datry, Núria Bonada, Andrew Boulton

Synthesizes recent advances in the ecology of intermittent rivers and ephemeral streams, integrating this knowledge into current management and conservation paradigms

- Offers up-to-date reviews of research findings and management strategies using international examples
- Integrates multiple themes across diverse subdisciplines in ecology and water resource management
- Explores effects of flow intermittence on riverine biota and ecological processes
- Discusses applications of recent research findings to management of intermittent rivers and ephemeral streams

Intermittent Rivers and Ephemeral Streams: Ecology and Management takes an internationally broad approach, seeking to compare and contrast findings across multiple continents, climates, flow regimes, and land uses to provide an integrated perspective on the ecology of these ecosystems. The book includes relevant case studies and discussions of management approaches in different regions, presented in a logical sequence of readable and richly illustrated chapters authored by disciplinary experts. Researchers, consultants, water resource managers, and policy makers will find this book a crucial reference about the ecology and management of a widespread ecosystem whose values and services have only recently been recognized.

Dr. Thibault Datry works at the National Research Institute of Science and Technology for Environment and Agriculture (IRSTEA) in Lyon, France. His research focuses on the ecology of rivers, including hyporheic zones, with particular emphasis on intermittent rivers and ephemeral streams (IRES). He has co-authored more than 100 peer-reviewed papers and several books chapters on IRES ecology, and led three major international research projects dedicated to these beautiful, but overlooked ecosystems.

Dr. Núria Bonada is an Associate Professor at the University of Barcelona in Catalonia, Spain. Her research focuses on the ecology, and conservation of river ecosystems, especially of those in Mediterranean climates. Her work has shown how these systems are part of the daily landscape and have triggered many evolutionary adaptations of organisms. She has co-authored more than 100 peer-reviewed papers and several book chapters on stream ecology and macroinvertebrates.

Dr. Andrew Boulton is an Adjunct Professor in Ecosystem Management at the University of New England in New South Wales, Australia. His research interests include river and groundwater ecology, especially of intermittent rivers in dryland areas of Australia and the United States. He has cowritten three textbooks and numerous peer-reviewed papers on stream ecology, river-groundwater interactions, and aquatic ecosystem management and conservation.



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