

Review

Not All Rivers Are Created Equal: The Importance of Spring-Fed Rivers under a Changing Climate

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Abstract: In the Western United States, volcanic spring-fed rivers are anticipated to become increasingly more important for salmonids and other native fishes, as these rivers will retain coldwater habitats as the climate warms. Despite this, little is known about the hydro-biogeochemical interactions within these ecosystems. A review of existing literature on spring-fed rivers, coupled with a decade of research on volcanic spring-fed rivers of northern California, finds that these systems are exceptionally productive and exhibit stable environmental conditions. These unique conditions stem from hydrogeologic processes typical of young volcanic terrains. Aquatic macrophytes, common to some nutrient-rich spring-fed systems, play a disproportionate role in hydrologic and geomorphic processes by facilitating ecological interactions and velocity conditions that improve juvenile salmonid growth. We find that volcanic spring-fed rivers are also resilient to climate change, due not only to their ability to dampen water temperature changes through deep groundwater flow but also because of their nutrient-driven high ecosystem productivity, which may enable coldwater species to metabolically compensate for marginal increases in water temperature. Understanding the fundamental geomorphic and ecological differences between these rare ecosystems and their numerically dominant runoff rivers is essential for developing long-term conservation strategies for coldwater species under a rapidly changing climate.

Keywords: spring-fed rivers; coldwater fishes; climate change; conservation



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1. Introduction

The loss of freshwater taxa has occurred at unprecedented rates [1,2]. In California alone, 74% of native salmonids are projected to be extirpated by 2100 [3] if present trends continue. Complicating matters, a 47% reduction in coldwater habitats is anticipated for many salmonids by 2080, as a result of climate change [4]. These projections suggest that productive and resilient habitats will play a more critical role in the future conservation of salmonids and other coldwater biota. However, our understanding of riverine processes that affect biodiversity, productivity, and distribution is limited to the types of systems most often studied in the geomorphic and ecological literature. Much of the literature regarding coldwater fishes, including salmonids, has focused on the physical, biological, and chemical processes associated with runoff-dominated rivers or those generating discharge from rain events and snowmelt (hereafter, runoff rivers or systems). This stems from the fact that runoff rivers are numerically dominant throughout western North America and elsewhere, are relatively common study systems, and are also anticipated to be strongly affected by climate change.

Not All Rivers

**United States. Congress. House.
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The River Chris Hammer, 2025-05-14 Australia's major river system is collapsing. Parts of it are dying, parts of it are already dead. Australia's most significant river no longer reaches the sea. I look out into the dim autumn light and wonder once again how it has come to this. Join award-winning author Chris Hammer on a journey through Australia's largest river system, the Murray-Darling Basin. His travels during the crippling millennium drought take us through riverland communities sharing the laughter, sadness, and reflections of the people he meets along the way. The River looks past the daily news reports and their sterile statistics to reveal the true impact of our rivers' decline on the people who live along their shores and on the country as a whole. It's a tale that leaves the reader with nostalgia for an Australia that may be fading away forever. First published in 2010, *The River* continues to be read as a history, a prophecy, and as both. This updated edition includes a new introduction from the author.

River Dreams Ian Tyrrell, 2018-03-01 In the beginning there was the river before the beach, before the drain, before the dredging, before the dams, before numerous other actions that altered the stream. *River Dreams* reveals the complex history of the Cooks River in south-eastern Sydney, a river renowned as Australia's most altered and polluted. While nineteenth-century developers called it improvement, the sugar mill, tanneries, and factories that lined the banks of Sydney's Cooks River had drastic consequences for the health of the river. Local Aboriginal people became fringe dwellers, and over time the river became severely compromised, with many ecosystems damaged or destroyed. Later, a large section was turned into a concrete canal, and in the late 1940s the river was rerouted for the expansion of Sydney Airport. While much of the river has been rehabilitated in recent decades by passionate local groups and through government initiatives, it continues to be a source of controversy with rapid apartment development placing new stresses on the region. *River Dreams* is a timely reminder of the need to tread cautiously in seeking to dominate or ignore our environment. A beautiful book that reminds us that Australians are river people as much as we are bush or coast dwellers. IAN HOSKINS

Tahoe National Forest (N.F.) and Lake Tahoe Management Unit, Eight Eastside Rivers Wild and Scenic River(s) (WSR) Study, 1998 [The Pearson Complete Guide For The Cat](#) Sinha Nishit K, 2011-09 *Wild Rivers System* United States. Congress. Senate. Committee on Interior and Insular Affairs, 1965 [Hells Canyon National Recreation Area](#) United States. Congress. Senate. Committee on Interior and Insular Affairs. Subcommittee on Parks and Recreation, 1974

[Mt. Hood National Forest: Final environmental impact statement](#) United States. Forest Service. Pacific Northwest Region, 1990 **Memories of Merton** John Bruce Norton, 1868 **Bulletin of the United States Bureau of Fisheries** United States. Bureau of Fisheries, 1922 **Liquid Empire** Corey Ross, 2024-07-09 A bold new account of European imperialism told through the history of water. In the nineteenth and twentieth centuries, a handful of powerful European states controlled more than a third of the land surface of the planet. These sprawling empires encompassed not only rainforests, deserts, and savannas but also some of the world's most magnificent rivers, lakes, marshes, and seas. *Liquid*

Empire tells the story of how the waters of the colonial world shaped the history of imperialism and how this imperial past still haunts us today Spanning the major European empires of the period Corey Ross describes how new ideas technologies and institutions transformed human engagements with water and how the natural world was reshaped in the process Water was a realm of imperial power whose control and distribution were closely bound up with colonial hierarchies and inequalities but this vital natural resource could never be fully tamed Ross vividly portrays the efforts of officials engineers fisherfolk and farmers to exploit water and highlights its crucial role in the making and unmaking of the colonial order Revealing how the legacies of empire have persisted long after colonialism ebbed away Liquid Empire provides needed historical perspective on the crises engulfing the world s waters particularly in the Global South where billions of people are faced with mounting water shortages rising flood risks and the relentless depletion of sea life

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Contraduction Dan Barker,2024-09-03 In a quiet and unassuming way Contraduction is utterly brilliant Every page has a thought so deep and unexpected that it stops you in your tracks as you not only realize That s a different really interesting way to think about the world exactly the opposite of how I normally view things but also And it is absolutely equally valid and enriching to adopt this opposite way of thinking I loved this book Robert Sapolsky author of Behave and Determined An ingenious word for an invaluable concept Sharp clear and timely Steven Pinker Johnstone Professor of Psychology Harvard University and the author of The Blank Slate and Rationality Both a delightful read and a penetrating argument Barker has invented an invaluable new concept and puts it to work with clarity wit and above all conclusiveness A must have book A C Grayling author of The History of Philosophy and The God Argument I am completely down with the concept of contradiction It fills a need False pattern

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