# The coldâ€water climate shield: delineating refugia for the 21st century

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Citation Report

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Building on Two Decades of Ecosystem Management and Biodiversity Conservation under the Northwest Forest Plan, USA. Forests, 2015, 6, 3326-3352. | 2.1 | 11 |
| 2 | Cold-Water Fishes and Climate Change in North America. , 2015, , . | | 21 |
| 3 | Using Aerial Imagery to Characterize Redband Trout Habitat in a Remote Desert Landscape. Transactions of the American Fisheries Society, 2015, 144, 1322-1339. | 1.4 | 17 |
| 4 | Effective number of breeders provides a link between interannual variation in stream flow and individual reproductive contribution in a stream salmonid. Molecular Ecology, 2015, 24, 3585-3602. | 3.9 | 41 |
| 5 | Managing Climate Change Refugia for Climate Adaptation. PLoS ONE, 2016, 11, e0159909. | 2.5 | 324 |
| 6 | Migrating adult steelhead utilize a thermal refuge during summer periods with high water temperatures. ICES Journal of Marine Science, 2016, 73, 2616-2624. | 2.5 | 19 |
| 7 | Spatial and Temporal Variation of Water Temperature Regimes on the Snoqualmie River Network. Journal of the American Water Resources Association, 2016, 52, 769-787. | 2.4 | 46 |
| 8 | Changing river temperatures in northern Germany: trends and drivers of change. Hydrological Processes, 2016, 30, 3084-3096. | 2.6 | 68 |
| 9 | Sampling large geographic areas for rare species using environmental <scp>DNA</scp>: a study of bull trout Salvelinus confluentus occupancy in western Montana. Journal of Fish Biology, 2016, 88, 1215-1222. | 1.6 | 84 |
| 10 | Life History Characteristics and Vital Rates of Yellowstone Cutthroat Trout in Two Headwater Basins. North American Journal of Fisheries Management, 2016, 36, 1240-1253. | 1.0 | 11 |
| 11 | Slow climate velocities of mountain streams portend their role as refugia for cold-water biodiversity. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 4374-4379. | 7.1 | 182 |
| 12 | Using thermal limits to assess establishment of fish dispersing to high-latitude and high-elevation watersheds. Canadian Journal of Fisheries and Aquatic Sciences, 2016, 73, 1750-1758. | 1.4 | 21 |
| 13 | A road map for designing and implementing a biological monitoring program. Environmental Monitoring and Assessment, 2016, 188, 399. | 2.7 | 36 |
| 14 | Thermal Regimes, Nonnative Trout, and Their Influences on Native Bull Trout in the Upper Klamath River Basin, Oregon. Transactions of the American Fisheries Society, 2016, 145, 1318-1330. | 1.4 | 25 |
| 15 | Monitoring Demographic and Genetic Responses of a Threatened Inland Trout to Habitat Reconnection. Transactions of the American Fisheries Society, 2016, 145, 610-626. | 1.4 | 15 |
| 16 | Patterns of hybridization among cutthroat trout and rainbow trout in northern Rocky Mountain streams. Ecology and Evolution, 2016, 6, 688-706. | 1.9 | 40 |
| 17 | Are brown trout replacing or displacing bull trout populations in a changing climate?. Canadian Journal of Fisheries and Aquatic Sciences, 2016, 73, 1395-1404. | 1.4 | 45 |
| 18 | Projected impacts of climate change on stream salmonids with implications for resilienceâ€based management. Ecology of Freshwater Fish, 2017, 26, 190-204. | 1.4 | 31 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Accounting for adaptive capacity and uncertainty in assessments of speciesâ€™ climateâ€change vulnerability. Conservation Biology, 2017, 31, 136-149. | 4.7 | 36 |
| 20 | Big biology meets microclimatology: defining thermal niches of ectotherms at landscape scales for conservation planning. Ecological Applications, 2017, 27, 977-990. | 3.8 | 80 |
| 21 | Quantifying streambed advection and conduction heat fluxes. Water Resources Research, 2017, 53, 1595-1624. | 4.2 | 48 |
| 22 | Estimation of daily stream water temperatures with a Bayesian regression approach. Hydrological Processes, 2017, 31, 1719-1733. | 2.6 | 40 |
| 23 | Nonnative Trout Invasions Combined with Climate Change Threaten Persistence of Isolated Cutthroat Trout Populations in the Southern Rocky Mountains. North American Journal of Fisheries Management, 2017, 37, 314-325. | 1.0 | 22 |
| 24 | Quantifying long-term population growth rates of threatened bull trout: challenges, lessons learned, and opportunities. Canadian Journal of Fisheries and Aquatic Sciences, 2017, 74, 2131-2143. | 1.4 | 11 |
| 25 | Linking models across scales to assess the viability and restoration potential of a threatened population of steelhead ( Oncorhynchus mykiss ) in the Middle Fork John Day River, Oregon, USA. Ecological Modelling, 2017, 355, 24-38. | 2.5 | 24 |
| 26 | Evaluating species-specific changes in hydrologic regimes: an iterative approach for salmonids in the Greater Yellowstone Area (USA). Reviews in Fish Biology and Fisheries, 2017, 27, 425-441. | 4.9 | 14 |
| 27 | Envisioning, Quantifying, and Managing Thermal Regimes on River Networks. BioScience, 2017, 67, 506-522. | 4.9 | 100 |
| 28 | Legacy introductions and climatic variation explain spatiotemporal patterns of invasive hybridization in a native trout. Global Change Biology, 2017, 23, 4663-4674. | 9.5 | 71 |
| 29 | Bull Trout Movements Match the Life History of Sockeye Salmon: Consumers Can Exploit Seasonally Distinct Resource Pulses. Transactions of the American Fisheries Society, 2017, 146, 450-461. | 1.4 | 10 |
| 30 | Prediction of lake water temperature, dissolved oxygen, and fish habitat under changing climate. Climatic Change, 2017, 141, 747-757. | 3.6 | 49 |
| 31 | Summer temperature regimes in southcentral Alaska streams: watershed drivers of variation and potential implications for Pacific salmon. Canadian Journal of Fisheries and Aquatic Sciences, 2017, 74, 702-715. | 1.4 | 43 |
| 32 | Coupling LiDAR and thermal imagery to model the effects of riparian vegetation shade and groundwater inputs on summer river temperature. Science of the Total Environment, 2017, 592, 616-626. | 8.0 | 38 |
| 33 | River temperature modelling: A review of process-based approaches and future directions. Earth-Science Reviews, 2017, 175, 97-113. | 9.1 | 117 |
| 34 | An urban stream can support a healthy population of coastal cutthroat trout. Urban Ecosystems, 2018, 21, 291. | 2.4 | 2 |
| 35 | Warmer climate squeezes aquatic predators out of their preferred habitat. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 9764-9765. | 7.1 | 16 |
| 36 | Keeping things local: Subpopulation N<sub>b</sub> and N<sub>e</sub> in a stream network with partial barriers to fish migration. Evolutionary Applications, 2017, 10, 348-365. | 3.1 | 14 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Ecological segregation moderates a climactic conclusion to trout hybridization. Global Change Biology, 2017, 23, 5021-5023. | 9.5 | 7 |
| 38 | Can brook trout survive climate change in large rivers? If it rains. Science of the Total Environment, 2017, 607-608, 1225-1236. | 8.0 | 28 |
| 39 | Erosion of refugia in the Sierra Nevada meadows network with climate change. Ecosphere, 2017, 8, e01673. | 2.2 | 23 |
| 40 | Satellite and Airborne Remote Sensing Applications for Freshwater Fisheries. Fisheries, 2017, 42, 526-537. | 0.8 | 27 |
| 41 | The NorWeST Summer Stream Temperature Model and Scenarios for the Western U.S.: A Crowdâ€Sourced Database and New Geospatial Tools Foster a User Community and Predict Broad Climate Warming of Rivers and Streams. Water Resources Research, 2017, 53, 9181-9205. | 4.2 | 187 |
| 42 | Climate, invasive species and land use drive population dynamics of a coldâ€water specialist. Journal of Applied Ecology, 2017, 54, 638-647. | 4.0 | 40 |
| 43 | Incorporating lakes in stream fish habitat models: are we missing a key landscape attribute?. Canadian Journal of Fisheries and Aquatic Sciences, 2017, 74, 629-635. | 1.4 | 16 |
| 44 | Spatial and seasonal variability of forested headwater stream temperatures in western Oregon, USA. Aquatic Sciences, 2017, 79, 291-307. | 1.5 | 13 |
| 45 | Reimagining watershed restoration: a call for new investment and support structures for greater resiliency and longâ€term impact. Wiley Interdisciplinary Reviews: Water, 2017, 4, e1174. | 6.5 | 3 |
| 46 | Projected warming portends seasonal shifts of stream temperatures in the Crown of the Continent Ecosystem, USA and Canada. Climatic Change, 2017, 144, 641-655. | 3.6 | 15 |
| 47 | Influence of a rock glacier spring on the stream energy budget and coldâ€water refuge in an alpine stream. Hydrological Processes, 2017, 31, 4719-4733. | 2.6 | 28 |
| 48 | Thermal regimes of Rocky Mountain lakes warm with climate change. PLoS ONE, 2017, 12, e0179498. | 2.5 | 33 |
| 49 | Climate change refugia and habitat connectivity promote species persistence. Climate Change Responses, 2017, 4, . | 2.6 | 40 |
| 50 | Repurposing environmental DNA samplesâ€”detecting the western pearlshell ( Margaritifera falcata ) as a proof of concept. Ecology and Evolution, 2018, 8, 2659-2670. | 1.9 | 30 |
| 51 | Global Warming of Salmon and Trout Rivers in the Northwestern U.S.: Road to Ruin or Path Through Purgatory?. Transactions of the American Fisheries Society, 2018, 147, 566-587. | 1.4 | 93 |
| 52 | Cold-Water Fishes and Climate Change in North America. , 2018, , 103-111. | | 0 |
| 53 | Changes in native bull trout and nonâ€native brook trout distributions in the upper Powder River basin after 20 years, relationships to water temperature and implications of climate change. Ecology of Freshwater Fish, 2018, 27, 710-719. | 1.4 | 11 |
| 54 | Inferring watershed hydraulics and cold-water habitat persistence using multi-year air and stream temperature signals. Science of the Total Environment, 2018, 636, 1117-1127. | 8.0 | 51 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | A network model for primary production highlights linkages between salmonid populations and autochthonous resources. Ecosphere, 2018, 9, e02131. | 2.2 | 17 |
| 56 | Crowdâ€Sourced Databases as Essential Elements for Forest Service Partnerships and Aquatic Resource Conservation. Fisheries, 2018, 43, 423-430. | 0.8 | 14 |
| 57 | Effects of climate change on hydrology and water resources in the Blue Mountains, Oregon, USA. Climate Services, 2018, 10, 9-19. | 2.5 | 56 |
| 58 | Shallow bedrock limits groundwater seepage-based headwater climate refugia. Limnologica, 2018, 68, 142-156. | 1.5 | 35 |
| 59 | On the use of climate covariates in aquatic species distribution models: are we at risk of throwing out the baby with the bath water?. Ecography, 2018, 41, 695-712. | 4.5 | 31 |
| 60 | Confirmation of a unique and genetically diverse â€˜heritageâ€™ strain of brook trout (Salvelinus) Tj ETQq1 1 0.784314 rgBT /Overlo | 1.5 | 5 |
| 61 | Longitudinal thermal heterogeneity in rivers and refugia for coldwater species: effects of scale and climate change. Aquatic Sciences, 2018, 80, 1-15. | 1.5 | 69 |
| 62 | Hydrogeochemical controls on brook trout spawning habitats in a coastal stream. Hydrology and Earth System Sciences, 2018, 22, 6383-6398. | 4.9 | 13 |
| 63 | A Portfolio Framework for Prioritizing Conservation Efforts for Yellowstone Cutthroat Trout Populations. Fisheries, 2018, 43, 485-496. | 0.8 | 18 |
| 64 | Fineâ€scale environmental <scp>DNA</scp> sampling reveals climateâ€mediated interactions between native and invasive trout species. Ecosphere, 2018, 9, e02500. | 2.2 | 29 |
| 65 | Livestock management, beaver, and climate influences on riparian vegetation in a semi-arid landscape. PLoS ONE, 2018, 13, e0208928. | 2.5 | 26 |
| 66 | Conservation of Aquatic Biodiversity in the Context of Multipleâ€Use Management on National Forest System Lands. Fisheries, 2018, 43, 396-405. | 0.8 | 12 |
| 67 | DOs and DON'Ts for using climate change information for water resource planning and management: guidelines for study design. Climate Services, 2018, 12, 1-13. | 2.5 | 21 |
| 68 | Climate Change Impacts in Riverine Ecosystems. , 2018, , 203-223. | | 50 |
| 69 | Explicit consideration of preferential groundwater discharges as surface water ecosystem control points. Hydrological Processes, 2018, 32, 2435-2440. | 2.6 | 43 |
| 70 | Using Natural Disturbance and Portfolio Concepts to Guide Aquaticâ€“Riparian Ecosystem Management. Fisheries, 2018, 43, 406-422. | 0.8 | 16 |
| 71 | Population persistence in the face of climate change and competition: A battle on two fronts. Ecological Modelling, 2018, 385, 78-88. | 2.5 | 32 |
| 72 | Recent range contractions in the globally threatened Pyrenean desman highlight the importance of stream headwater refugia. Animal Conservation, 2018, 21, 515-525. | 2.9 | 15 |

| # | Article | IF | Citations |
|---|---|---|---|
| 73 | Geographic, hydrological, and climatic significance of rock glaciers in the Great Basin, USA. Arctic, Antarctic, and Alpine Research, 2019, 51, 232-249. | 1.1 | 14 |
| 74 | Ice cover exists: A quick method to delineate groundwater inputs in running waters for cold and temperate regions. Hydrological Processes, 2019, 33, 3297-3309. | 2.6 | 13 |
| 75 | Mechanistic simulations predict that thermal and hydrological effects of climate change on Mediterranean trout cannot be offset by adaptive behaviour, evolution, and increased food production. Science of the Total Environment, 2019, 693, 133648. | 8.0 | 25 |
| 76 | The effect of buffer strip width and selective logging on riparian forest microclimate. Forest Ecology and Management, 2019, 453, 117623. | 3.2 | 27 |
| 77 | Applying the patch-matrix model to lakes: a connectivity-based conservation framework. Landscape Ecology, 2019, 34, 2703-2718. | 4.2 | 11 |
| 78 | Temperature and depth profiles of Chinook salmon and the energetic costs of their long-distance homing migrations. Journal of Thermal Biology, 2019, 79, 155-165. | 2.5 | 14 |
| 79 | Assessing the potential of droneâ€based thermal infrared imagery for quantifying river temperature heterogeneity. Hydrological Processes, 2019, 33, 1152-1163. | 2.6 | 61 |
| 80 | Stream channel restoration increases climate resiliency in a thermally vulnerable Appalachian river. Restoration Ecology, 2019, 27, 1420-1428. | 2.9 | 9 |
| 81 | A tracer-based method for classifying groundwater dependence in boreal headwater streams. Journal of Hydrology, 2019, 577, 123762. | 5.4 | 10 |
| 82 | Effects of Climateâ€Related Stream Factors on Patterns of Individual Summer Growth of Cutthroat Trout. Transactions of the American Fisheries Society, 2019, 148, 21-34. | 1.4 | 12 |
| 83 | Distinct Phenotypes of Native Cutthroat Trout Emerge under a Molecular Model of Lineage Distributions. Transactions of the American Fisheries Society, 2019, 148, 442-463. | 1.4 | 9 |
| 84 | Temperature buffering by groundwater in ecologically valuable lowland streams under current and future climate conditions. Journal of Hydrology X, 2019, 3, 100031. | 1.6 | 32 |
| 85 | Behaviour of Atlantic salmon smolts approaching a bypass under light and dark conditions: Importance of fish development. Ecological Engineering, 2019, 131, 39-52. | 3.6 | 17 |
| 86 | Impacts of Nonnative Brown Trout on Yellowstone Cutthroat Trout in a Tributary Stream. North American Journal of Fisheries Management, 2019, 39, 17-28. | 1.0 | 14 |
| 87 | The influence of landscape characteristics on the spatial variability of river temperatures. Catena, 2019, 177, 70-83. | 5.0 | 35 |
| 88 | Climate change will decrease the range of a keystone fish species in La Plata River Basin, South America. Hydrobiologia, 2019, 836, 1-19. | 2.0 | 19 |
| 89 | Predicting Persistence of Rio Grande Cutthroat Trout Populations in an Uncertain Future. North American Journal of Fisheries Management, 2019, 39, 819-848. | 1.0 | 12 |
| 90 | Decision Analysis for the Reintroduction of Bull Trout into the Lower Pend Oreille River, Washington. North American Journal of Fisheries Management, 2019, 39, 1026-1045. | 1.0 | 9 |

| # | Article | IF | Citations |
|---|---|---|---|
| 91 | Thermal landscapes in a changing climate: biological implications of water temperature patterns in an extreme year. Canadian Journal of Fisheries and Aquatic Sciences, 2019, 76, 1740-1756. | 1.4 | 17 |
| 92 | Citizen science evidence from the past century shows that Scottish rivers are warming. Science of the Total Environment, 2019, 659, 53-65. | 8.0 | 21 |
| 93 | Predicting the potential distribution of the non-native Red Swamp Crayfish Procambarus clarkii in the Laurentian Great Lakes. Journal of Great Lakes Research, 2019, 45, 150-159. | 1.9 | 13 |
| 94 | Comparing the behavioural thermoregulation response to heat stress by Atlantic salmon parr (Salmo salar) in two rivers. Ecology of Freshwater Fish, 2020, 29, 50-62. | 1.4 | 28 |
| 95 | Oversummer growth and survival of juvenile coho salmon (Oncorhynchus kisutch) across a natural gradient of stream water temperature and prey availability: an in situ enclosure experiment. Canadian Journal of Fisheries and Aquatic Sciences, 2020, 77, 413-424. | 1.4 | 35 |
| 96 | An invader in salmonid rearing habitat: current and future distributions of smallmouth bass (Micropterus dolomieu) in the Columbia River Basin. Canadian Journal of Fisheries and Aquatic Sciences, 2020, 77, 314-325. | 1.4 | 30 |
| 97 | Thermal habitat of Brook Trout in lakes of different size. Freshwater Science, 2020, 39, 56-69. | 1.8 | 5 |
| 98 | Landscape resistance mediates native fish species distribution shifts and vulnerability to climate change in riverscapes. Global Change Biology, 2020, 26, 5492-5508. | 9.5 | 30 |
| 99 | Combined effects of early snowmelt and climate warming on mountain lake temperatures and fish energetics. Arctic, Antarctic, and Alpine Research, 2020, 52, 130-145. | 1.1 | 6 |
| 100 | Managing climate refugia for freshwater fishes under an expanding human footprint. Frontiers in Ecology and the Environment, 2020, 18, 271-280. | 4.0 | 38 |
| 101 | Impacts of climate change on multiple use management of Bureau of Land Management land in the Intermountain West, USA. Ecosphere, 2020, 11, e03286. | 2.2 | 14 |
| 102 | Mountain stoneflies may tolerate warming streams: Evidence from organismal physiology and gene expression. Global Change Biology, 2020, 26, 5524-5538. | 9.5 | 16 |
| 103 | Concealment of juvenile bull trout in response to temperature, light, and substrate: Implications for detection. PLoS ONE, 2020, 15, e0237716. | 2.5 | 0 |
| 104 | Insects in highâ€elevation streams: Life in extreme environments imperiled by climate change. Global Change Biology, 2020, 26, 6667-6684. | 9.5 | 57 |
| 105 | Use of longâ€term (40+ year) trend data to evaluate management actions on brown trout, Salmo trutta, populations in groundwaterâ€fed streams. Fisheries Management and Ecology, 2020, 27, 551-566. | 2.0 | 6 |
| 106 | Thermal Regimes of Perennial Rivers and Streams in the Western United States. Journal of the American Water Resources Association, 2020, 56, 842-867. | 2.4 | 21 |
| 107 | Effects of Topographic Resolution and Geologic Setting on Spatial Statistical River Temperature Models. Water Resources Research, 2020, 56, e2020WR028122. | 4.2 | 25 |
| 108 | Abiotic conditions are unlikely to mediate hybridization between invasive rainbow trout and native Yellowstone cutthroat trout in a high-elevation metapopulation. Canadian Journal of Fisheries and Aquatic Sciences, 2020, 77, 1433-1445. | 1.4 | 3 |

| # | Article | IF | Citations |
|---|---|---|---|
| 109 | Projecting spatiotemporally explicit effects of climate change on stream temperature: A model comparison and implications for coldwater fishes. Journal of Hydrology, 2020, 588, 125066. | 5.4 | 19 |
| 110 | Unmanned Aerial Vehicle (UAV)-Based Thermal Infra-Red (TIR) and Optical Imagery Reveals Multi-Spatial Scale Controls of Cold-Water Areas Over a Groundwater-Dominated Riverscape. Frontiers in Environmental Science, 2020, 8, . | 3.3 | 28 |
| 111 | The Freshwater Commons. , 2020, , 1-33. | | 0 |
| 112 | Global Endangerment of Freshwater Biodiversity. , 2020, , 34-60. | | 0 |
| 113 | Overexploitation. , 2020, , 61-122. | | 0 |
| 114 | Alien Species and Their Effects. , 2020, , 123-215. | | 0 |
| 115 | River Regulation. , 2020, , 216-258. | | 0 |
| 116 | Vanishing Lakes and Threats to Lacustrine Biodiversity. , 2020, , 259-290. | | 0 |
| 117 | How Will Climate Change Affect Freshwater Biodiversity?. , 2020, , 291-331. | | 0 |
| 118 | Ecosystem Services and Incentivizing Conservation of Freshwater Biodiversity. , 2020, , 332-355. | | 0 |
| 119 | Conservation of Freshwater Biodiversity. , 2020, , 356-398. | | 0 |
| 125 | Thermal heterogeneity, migration, and consequences for spawning potential of female bull trout in a riverâ€“reservoir system. Ecology and Evolution, 2020, 10, 4128-4142. | 1.9 | 14 |
| 126 | Characterizing physical habitat preferences and thermal refuge occupancy of brook trout (<scp>Salvelinus fontinalis</scp>) and Atlantic salmon (<scp>Salmo salar</scp>) at high river temperatures. River Research and Applications, 2020, 36, 769-783. | 1.7 | 35 |
| 127 | Low snowpack reduces thermal response diversity among streams across a landscape. Limnology and Oceanography Letters, 2020, 5, 254-263. | 3.9 | 18 |
| 128 | Characterization of contrasting flow and thermal regimes in two adjacent subarctic alpine headwaters in Northwest Canada. Hydrological Processes, 2020, 34, 3252-3270. | 2.6 | 4 |
| 129 | Hybridization alters growth and migratory lifeâ€history expression of native trout. Evolutionary Applications, 2021, 14, 821-833. | 3.1 | 9 |
| 130 | Intrinsic and extrinsic drivers of lifeâ€history variability for a southâ€western cutthroat trout. Ecology of Freshwater Fish, 2021, 30, 100-114. | 1.4 | 6 |
| 131 | Is there always space at the top? Ensemble modeling reveals climate-driven high-altitude squeeze for the vulnerable snow trout Schizothorax richardsonii in Himalaya. Ecological Indicators, 2021, 120, 106900. | 6.3 | 31 |

| # | Article | IF | Citations |
|---|---|---|---|
| 132 | Examining the utility of continuously quantified Darcy fluxes through the use of periodic temperature time series. Journal of Hydrology, 2021, 595, 125675. | 5.4 | 6 |
| 133 | Restoration of Landscapes and Habitats Affected by Established Invasive Species. , 2021, , 185-202. | | 1 |
| 134 | Temporary turbine and reservoir level management to improve downstream migration of juvenile salmon through a hydropower complex. Knowledge and Management of Aquatic Ecosystems, 2021, , 4. | 1.1 | 4 |
| 135 | Detecting multiâ€scale riverine topographic variability and its influence on Chinook salmon habitat selection. Earth Surface Processes and Landforms, 2021, 46, 1026-1040. | 2.5 | 11 |
| 136 | The importance of warm habitat to the growth regime of cold-water fishes. Nature Climate Change, 2021, 11, 354-361. | 18.8 | 71 |
| 137 | Cold-water species need warm water too. Nature Climate Change, 2021, 11, 297-299. | 18.8 | 2 |
| 138 | A bright spot analysis of inland recreational fisheries in the face of climate change: learning about adaptation from small successes. Reviews in Fish Biology and Fisheries, 2021, 31, 181-200. | 4.9 | 12 |
| 139 | Review of the ecosystem approach in Cumberland Sound, Nunavut, Canada. Arctic Science, 2021, 7, 376-393. | 2.3 | 4 |
| 140 | Surface water connectivity affects lake and stream fish species richness and composition. Canadian Journal of Fisheries and Aquatic Sciences, 2021, 78, 433-443. | 1.4 | 7 |
| 141 | Influence of water temperature and biotic interactions on the distribution of westslope cutthroat trout (Oncorhynchus clarkii lewisi) in a population stronghold under climate change. Canadian Journal of Fisheries and Aquatic Sciences, 2021, 78, 444-456. | 1.4 | 4 |
| 142 | Temperature, emergence phenology and consumption drive seasonal shifts in fish growth and production across riverscapes. Journal of Animal Ecology, 2021, 90, 1727-1741. | 2.8 | 11 |
| 143 | Seasonâ€specific survival rates and densities of coastal cutthroat trout across stream sizes in southwestern British Columbia. Ecology of Freshwater Fish, 2022, 31, 102-117. | 1.4 | 2 |
| 144 | Life through a wider scope: Brook Trout (Salvelinus fontinalis) exhibit similar aerobic scope across a broad temperature range. Journal of Thermal Biology, 2021, 99, 102929. | 2.5 | 16 |
| 145 | A deterministic river temperature model to prioritize management of riparian woodlands to reduce summer maximum river temperatures. Hydrological Processes, 2021, 35, e14314. | 2.6 | 10 |
| 146 | Fringe effects: detecting bull trout (Salvelinus confluentus) at distributional boundaries in a montane watershed. Canadian Journal of Fisheries and Aquatic Sciences, 2021, 78, 1030-1044. | 1.4 | 3 |
| 147 | Integrating thermal infrared stream temperature imagery and spatial stream network models to understand natural spatial thermal variability in streams. Journal of Thermal Biology, 2021, 100, 103028. | 2.5 | 5 |
| 148 | The interactive effects of stream temperature, stream size, and non-native species on Yellowstone cutthroat trout. Canadian Journal of Fisheries and Aquatic Sciences, 2021, 78, 1073-1083. | 1.4 | 4 |
| 149 | Classifying Californiaâ€™s stream thermal regimes for cold-water conservation. PLoS ONE, 2021, 16, e0256286. | 2.5 | 13 |

| # | Article | IF | Citations |
|---|---|---|---|
| 150 | Integrating regional and local monitoring data and assessment tools to evaluate habitat conditions and inform river restoration. Ecological Indicators, 2021, 131, 108213. | 6.3 | 7 |
| 151 | Effects of Climate Change on Cold-Water Fish in the Northern Rockies. Advances in Global Change Research, 2018, , 37-58. | 1.6 | 8 |
| 153 | Warmer temperatures interact with salinity to weaken physiological facilitation to stress in freshwater fishes. , 2020, 8, coaa107. | | 5 |
| 156 | Mediating Water Temperature Increases Due to Livestock and Global Change in High Elevation Meadow Streams of the Golden Trout Wilderness. PLoS ONE, 2015, 10, e0142426. | 2.5 | 16 |
| 157 | Climate, Demography, and Zoogeography Predict Introgression Thresholds in Salmonid Hybrid Zones in Rocky Mountain Streams. PLoS ONE, 2016, 11, e0163563. | 2.5 | 27 |
| 160 | Synergistic effects of climate change and agricultural intensification on steelhead Oncorhynchus mykiss in the interior Columbia River basin. Climate Research, 2019, 77, 219-239. | 1.1 | 2 |
| 161 | Geocode-based Aquatic Habitats in Hierarchical System of the Yellow River Basin. Journal of Environmental Informatics, 0, , . | 6.0 | 5 |
| 164 | Riparian Land Cover, Water Temperature Variability, and Thermal Stress for Aquatic Species in Urban Streams. Water (Switzerland), 2021, 13, 2732. | 2.7 | 8 |
| 165 | Air temperatures overâ€predict changes to stream fish assemblages with climate warming compared with water temperatures. Ecological Applications, 2022, 32, e02465. | 3.8 | 14 |
| 166 | Aquatic-Riparian Systems. , 2017, , 191-206. | | 0 |
| 168 | Resurrecting an Idaho Icon: How Research and Management Reversed Declines of Native Westslope Cutthroat Trout. Fisheries, 0, , . | 0.8 | 1 |
| 169 | Threatened salmon rely on a rare life history strategy in a warming landscape. Nature Climate Change, 2021, 11, 982-988. | 18.8 | 23 |
| 170 | Climate change and forest management on federal lands in the Pacific Northwest, USA: Managing for dynamic landscapes. Forest Ecology and Management, 2022, 504, 119794. | 3.2 | 10 |
| 171 | Riverscape approaches in practice: perspectives and applications. Biological Reviews, 2022, 97, 481-504. | 10.4 | 38 |
| 172 | Contribution of warm habitat to coldâ€water fisheries. Conservation Biology, 2022, 36, . | 4.7 | 10 |
| 173 | Influence of biomimicry structures on ecosystem function in a Rocky Mountain incised stream. Ecosphere, 2022, 13, . | 2.2 | 2 |
| 174 | Thirty years of environmental change reduces local, but not regional, diversity of riverine fish assemblages in a Himalayan biodiversity hotspot. Biological Conservation, 2022, 265, 109427. | 4.1 | 6 |
| 175 | Influence of beaver mimicry restoration on habitat availability for fishes, including Arctic grayling (Thymallus arcticus). Aquaculture, Fish and Fisheries, 2022, 2, 104-115. | 1.0 | 1 |

| # | Article | IF | Citations |
|---|---|---|---|
| 176 | Identifying Priority Conservation Areas of Largehead Hairtail (Trichiurus japonicus) Nursery Grounds in the East China Sea. Frontiers in Marine Science, 2022, 8, . | 2.5 | 8 |
| 177 | Impact of climate change on the river ecosystem. , 2022, , 79-104. | | 9 |
| 178 | Functional Flows in Groundwater-Influenced Streams: Application of the California Environmental Flows Framework to Determine Ecological Flow Needs. Frontiers in Environmental Science, 2022, 9, . | 3.3 | 8 |
| 179 | Shallow Groundwater Thermal Response to Land Surface Energy Dissipation and Potential Implications on the Use of Heat as a Tracer. Earth Systems and Environment, 0, , 1. | 6.2 | 0 |
| 180 | Identifying Translocation Sites for a Climate Relict Population of Finescale Dace. Transactions of the American Fisheries Society, 2022, 151, 245-259. | 1.4 | 1 |
| 181 | Strong but heterogeneous distributional responses to climate change are projected for temperate and semiâ€arid stream vertebrates. Aquatic Conservation: Marine and Freshwater Ecosystems, 0, , . | 2.0 | 1 |
| 182 | Do metapopulations and management matter for relict headwater bull trout populations in a warming climate?. Ecological Applications, 2022, 32, e2594. | 3.8 | 8 |
| 183 | Hydroclimatic Conditions, Wildfire, and Species Assemblages Influence Co-Occurrence of Bull Trout and Tailed Frogs in Northern Rocky Mountain Streams. Water (Switzerland), 2022, 14, 1162. | 2.7 | 2 |
| 184 | Prediction of three-dimensional shift in the distribution of largemouth bass (Micropterus salmoides) under climate change in South Korea. Ecological Indicators, 2022, 137, 108731. | 6.3 | 10 |
| 185 | Climate change and expanding invasive species drive widespread declines of native trout in the northern Rocky Mountains, USA. Science Advances, 2021, 7, eabj5471. | 10.3 | 29 |
| 186 | The waterscape continuum concept: Rethinking boundaries in ecosystems. Wiley Interdisciplinary Reviews: Water, 2022, 9, . | 6.5 | 6 |
| 187 | Small giants: Tributaries rescue spatially structured populations from extirpation in a highly fragmented stream. Journal of Applied Ecology, 2022, 59, 1997-2009. | 4.0 | 7 |
| 188 | Who will be where: Climate driven redistribution of fish habitat in southern Germany. , 2022, 1, e0000006. | | 3 |
| 189 | â€œWe had to Jump Over, but Weâ€™re Still Hereâ€: NimiipÃºu spatio-temporalities of water and fish in times of climate change. Current Directions in Water Scarcity Research, 2022, , 91-108. | 0.6 | 0 |
| 190 | Stream size, temperature, and density explain body sizes of freshwater salmonids across a range of climate conditions. Canadian Journal of Fisheries and Aquatic Sciences, 2022, 79, 1729-1744. | 1.4 | 8 |
| 191 | Move, migrate, or tolerate: Quantifying three tactics for coldâ€water fish coping with warm summers in a large river. Ecosphere, 2022, 13, . | 2.2 | 13 |
| 192 | Climate Change Impacts on Stream Water Temperatures in a Snowy Cold Region According to Geological Conditions. Water (Switzerland), 2022, 14, 2166. | 2.7 | 4 |
| 193 | Riverscape heterogeneity in estimated Chinook Salmon emergence phenology and implications for size and growth. Ecosphere, 2022, 13, . | 2.2 | 4 |

| # | Article | IF | Citations |
|---|---|---|---|
| 194 | Timescale mediates the effects of environmental controls on water temperature in mid- to low-order streams. Scientific Reports, 2022, 12, . | 3.3 | 1 |
| 195 | Digital Hydrography Underestimates Stream Length and Leads to Underestimates of Trout Population Size. North American Journal of Fisheries Management, 0, , . | 1.0 | 3 |
| 196 | Temporal population trends and habitat associations for Mountain Whitefish in central Idaho. North American Journal of Fisheries Management, 0, , . | 1.0 | 0 |
| 197 | Broadâ€scale <scp>eDNA</scp> sampling for describing aquatic species distributions in running waters: Pacific lamprey Entosphenus tridentatus in the upper Snake River, <scp>USA</scp>. Journal of Fish Biology, 2022, 101, 1312-1325. | 1.6 | 3 |
| 198 | Effects of climate on salmonid productivity: A global metaâ€analysis across freshwater ecosystems. Global Change Biology, 2022, 28, 7250-7269. | 9.5 | 7 |
| 199 | Coral conservation in a warming world must harness evolutionary adaptation. Nature Ecology and Evolution, 2022, 6, 1405-1407. | 7.8 | 14 |
| 200 | Projected stream fish community risk to climate impacts in the Northeastern and Midwestern United States. Ecological Indicators, 2022, 144, 109493. | 6.3 | 1 |
| 201 | An ecothermal paradox: bull trout populations diverge in response to thermal landscapes across a broad latitudinal gradient. Environmental Biology of Fishes, 0, , . | 1.0 | 2 |
| 202 | Cryptic declines of small, cold-water specialists highlight potential vulnerabilities of headwater streams as climate refugia. Biological Conservation, 2023, 277, 109868. | 4.1 | 7 |
| 204 | Dynamic, downstreamâ€propagating thermal vulnerability in a mountain stream network: Implications for biodiversity in the face of climate change. Limnology and Oceanography, 2023, 68, . | 3.1 | 3 |
| 205 | Whole genome resequencing identifies local adaptation associated with environmental variation for redband trout. Molecular Ecology, 2023, 32, 800-818. | 3.9 | 15 |
| 206 | Assessing climate change impacts on North American freshwater habitat of wild Atlantic salmon - urgent needs for collaborative research. Canadian Water Resources Journal, 2023, 48, 222-246. | 1.2 | 7 |
| 207 | Density effects on native and nonâ€native trout survival in streams. Ecology of Freshwater Fish, 0, , . | 1.4 | 0 |
| 208 | Identifying imperilled fish species and potential causes of decline in the Himalaya biodiversity hotspot. Aquatic Conservation: Marine and Freshwater Ecosystems, 0, , . | 2.0 | 0 |
| 209 | Managing for Atlantic Salmon Smolt Run Timing Variability in a Changing Climate. North American Journal of Fisheries Management, 2023, 43, 517-538. | 1.0 | 5 |
| 210 | Timing and frequency of high temperature events bend the onset of behavioural thermoregulation in Atlantic salmon (Salmo salar). , 2023, 11, . |  | 6 |
| 211 | Reduction in overwinter body condition and size of Pacific sand lance has implications for piscivorous predators during marine heatwaves. Marine Ecology - Progress Series, 0, , . | 1.9 | 0 |
| 212 | Water Management for Conservation and Ecosystem Function: Modeling the Prioritization of Source Water in a Working Landscape. Journal of Water Resources Planning and Management - ASCE, 2023, 149, . | 2.6 | 0 |

| # | Article | IF | Citations |
|---|---|---|---|
| 213 | Effects of Beaver Dams on Stream and Riparian Conditions on Public Lands in the United States' Inland Northwest. Western North American Naturalist, 2022, 82, . | 0.4 | 0 |
| 214 | Factors Related to the Distribution and Abundance of Westslope Cutthroat Trout in Central Idaho. Western North American Naturalist, 2022, 82, . | 0.4 | 0 |
| 215 | Elevation-dependent warming of streams in mountainous regions: implications for temperature modeling and headwater climate refugia. Canadian Water Resources Journal, 2023, 48, 167-188. | 1.2 | 4 |
| 216 | Resiliency of Apache Trout Habitats in a Warmer and Drier Climate Future. Transactions of the American Fisheries Society, 0, , . | 1.4 | 0 |
| 217 | Cold-water habitats, climate refugia, and their utility for conserving salmonid fishes. Canadian Journal of Fisheries and Aquatic Sciences, 2023, 80, 1187-1206. | 1.4 | 6 |
| 218 | Contrasting longâ€term trends in juvenile abundance of a widespread coldâ€water salmonid along a latitudinal gradient: effects of climate, stream size and migration strategy. Ecography, 2023, 2023, . | 4.5 | 3 |
| 219 | Landscape features control river's confluences water quality and tributary fish composition. River Research and Applications, 2023, 39, 1025-1036. | 1.7 | 0 |
| 220 | Summer physical habitat associations and movement of sympatric juvenile rainbow trout (Oncorhynchus mykiss) and Dolly Varden char (Salvelinus malma) in coastal streams of British Columbia. Environmental Biology of Fishes, 2023, 106, 1327-1343. | 1.0 | 1 |
| 221 | Using historical catch data to evaluate predicted changes in fish relative abundance in response to a warming climate. Ecography, 2023, 2023, . | 4.5 | 1 |
| 222 | Combining expert knowledge of a threatened trout distribution with sparse occupancy data for climateâ€related projection. North American Journal of Fisheries Management, 2023, 43, 839-858. | 1.0 | 2 |
| 223 | Thermal regimes of groundwaterâ€and lakeâ€fed headwater streams differ in their response to climate variability. Limnology and Oceanography Letters, 0, , . | 3.9 | 1 |
| 224 | Machineâ€learning modeling of hourly potential thermal refuge area: A case study from the Sainteâ€Marguerite River (Quebec, Canada). River Research and Applications, 0, , . | 1.7 | 0 |
| 225 | The Role of Cold-Water Thermal Refuges for Stream Salmonids in a Changing Climateâ€"Experiences from Atlantic Canada. Fishes, 2023, 8, 471. | 1.7 | 1 |
| 226 | Applying High-Resolution Satellite and UAS Imagery for Detecting Coldwater Inputs in Temperate Streams of the Iowa Driftless Region. Remote Sensing, 2023, 15, 4445. | 4.0 | 0 |
| 227 | Reachâ€scale associations between introduced Brook Trout and juvenile and streamâ€resident Bull Trout in Idaho. Transactions of the American Fisheries Society, 2023, 152, 835-848. | 1.4 | 0 |
| 228 | Co-production of models to evaluate conservation alternatives for a threatened fish in a rapidly changing landscape. Aquatic Sciences, 2024, 86, . | 1.5 | 0 |
| 230 | Train, Inform, Borrow, or Combine? Approaches to Processâ€Guided Deep Learning for Groundwaterâ€influenced Stream Temperature Prediction. Water Resources Research, 2023, 59, . | 4.2 | 0 |
| 231 | Integrating spatial stream network models and environmental <scp>DNA</scp> to estimate current and future distributions of nonnative Smallmouth Bass. Transactions of the American Fisheries Society, 2024, 153, 180-199. | 1.4 | 0 |

| # | Article | IF | Citations |
|---|---|---|---|
| 232 | Diurnal patterns of spatial stream temperature variations reveal the need for integrating thermal heterogeneity in riverscape habitat restoration. Science of the Total Environment, 2024, 918, 170786. | 8.0 | 0 |
| 233 | Strong variation in Brook Trout trends across geology, elevation, and stream size in Shenandoah National Park. Transactions of the American Fisheries Society, 2024, 153, 250-263. | 1.4 | 0 |
| 234 | Improved thermal preferences and a stressor index derived from modeled stream temperatures and regional taxonomic standards for freshwater macroinvertebrates of the Pacific Northwest, USA. Ecological Indicators, 2024, 160, 111869. | 6.3 | 0 |