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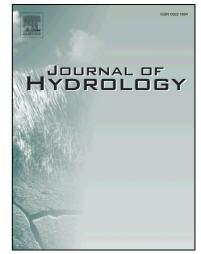
Global sensitivity analysis of water age and temperature for informing salmonid disease management

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13	Abstract

Many rivers in the Pacific Northwest region of North America are anthropogenically 14 manipulated via dam operations, leading to system-wide impacts on hydrodynamic 15 conditions and aquatic communities. Understanding how dam operations alter abiotic and 16 biotic variables is important for designing management actions. For example, in the Klamath 17 River, dam outflows could be manipulated to alter water age and temperature to reduce risk 18 19 of parasite infections in salmon by diluting or altering viability of parasite spores. However, sensitivity of water age and temperature to the riverine conditions such as bathymetry can 20 21 affect outcomes from dam operations. To examine this issue in detail, we conducted a global 22 sensitivity analysis of water age and temperature to a comprehensive set of hydraulics and

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