

## Rushing Rivers Institute Staff:



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River scientist and engineer

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Visit us on the web at:

[www.rushingrivers.org](http://www.rushingrivers.org)

**Rushing Rivers Institute**

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**The key drawback in the application of cutting-edge research in water management planning is the “disconnect between needs of resource managers for simple and effective solutions on the one hand, and cost-independent needs for innovation and basic understanding of complex processes, that motivates scientist on the other hand”**

(Acreman M. 2005 Linking science and decision-making: features and experience from environmental river flow setting. Environ-

NORTHEAST  
INSTREAM  
HABITAT  
PROGRAM



*Rushing Rivers Institute*



Richard H. Lord, Lamprey River Advisory Committee



Richard A. Jacobson

**Climate extremes, due to global climate change, call for sophisticated science-based management of running waters**

## Our Mission

To protect river and stream ecosystems by fostering the timely application of cutting edge science in resource management.

## Services

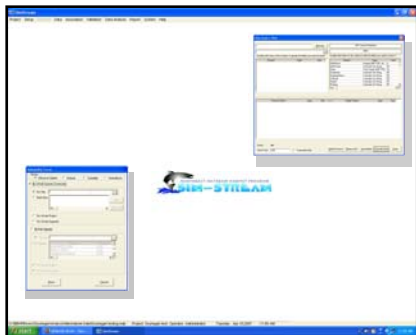
1. Technical assistance for resource stewards and conservationists:

- Review services
- Advisory services
- News services

2. Training in habitat modeling and river restoration planning for professionals, students, and managers. Outdoor education.



3. Sim-Stream software development, based on Mesohabitat Simulation Model (MesoHABSIM)



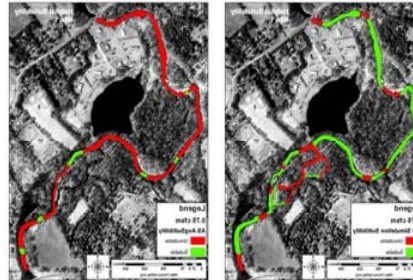
4. On demand status assessments and restoration planning projects through partnership with the Northeast Instream Habitat Program at Mt. Holyoke College focusing on:

- Protected instream flows

- Dam removal feasibility



-River Restoration Planning



Using MesoHABSIM we can model Atlantic salmon habitat suitability (left), where red indicates unsuitable and green suitable habitats. By modifying the substrate, introducing riffle habitat, woody debris and improving the floodplain connectivity, we can significantly improve habitat availability (right).

- Nature like fishways



5. Extensive partnership network with state and federal agencies, universities, NGOs, environmental consultants, and volunteers.



## Products

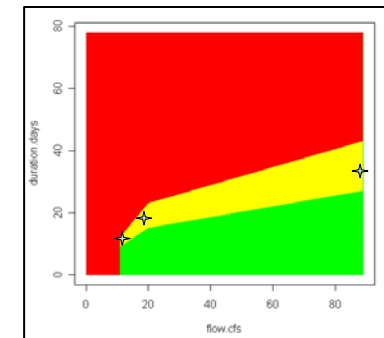


1. Blog at [www.RushingRivers.org](http://www.RushingRivers.org)
2. Week long and three-part training courses in the MesoHABIM method
3. Outdoor education: river hikes
4. In depth technical reports and river restoration management plans that develop:

- Target Fish Community

- Protected Instream Flows

- ACTograms (below) which visually represent common (green), critical (yellow) and catastrophic (red) durations of continuous low-flow events



- Flow scenarios and associated stress days

- Ecological impact assessments

- Dam removal modeling

- Fish passage alternatives

4. Sim-Stream software

For more information visit [www.rushingrivers.org](http://www.rushingrivers.org)