

RESTORING BEAVER TO RESTORE RIVERS

Chris Jordan, Ph.D., Mathematical Ecologist, NOAA Northwest Fisheries Science Center

Michael M. Pollock, Ph.D., Ecosystems Analyst, NOAA Northwest Fisheries Science Center

◦ Kent Woodruff, Wildlife Biologist, US Forest Service

Janine Castro, Ph.D., Geomorphologist, US Fish and Wildlife Service

Gregory Lewallen, Research Assistant, Portland State University





NPLCC Mission:

Promote development, coordination & dissemination of science

to inform landscape-level conservation & sustainable resource management

in the face of a changing climate and related stressors.



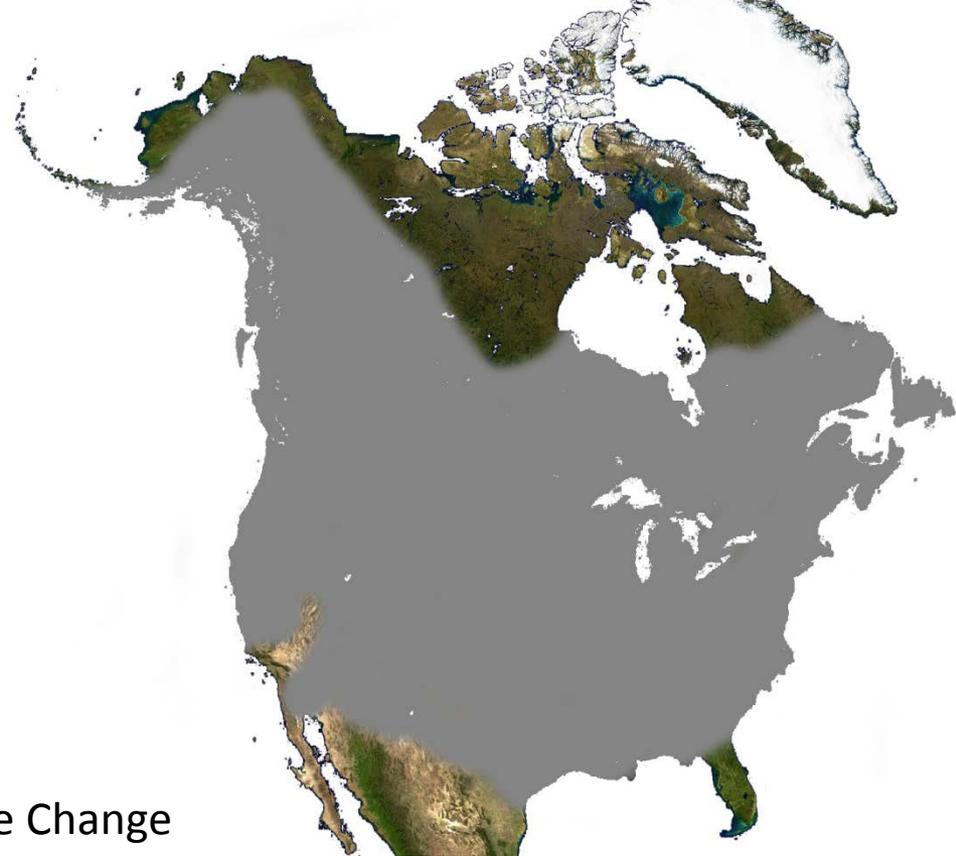
NorthPacificLcc.org

- Learn more about the NPLCC and our science projects
- Join our mailing list
- Find out how to contact us



Pacific Salmon

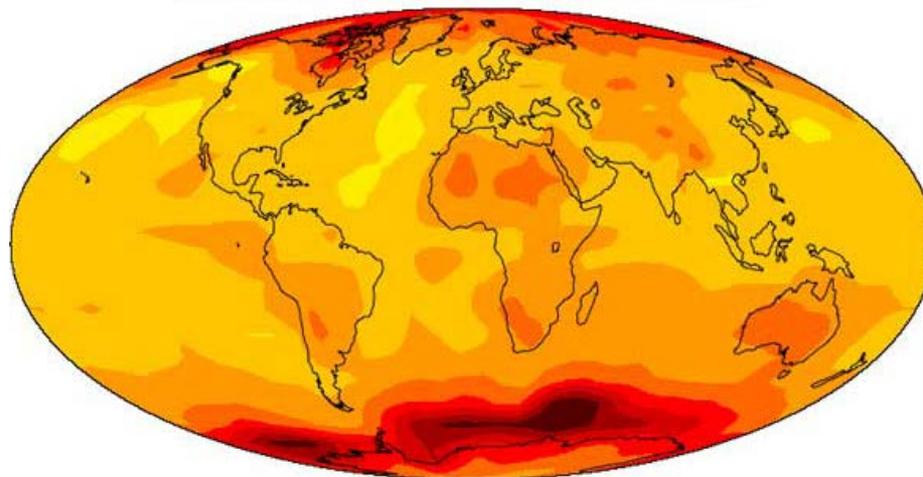
From: canadiangeographic.ca



Beaver

From: commons.wikimedia.org

Climate Change



From: nature-education.org

- You **will not**
 - be a beaver expert
 - have enough design guidance to build a structure
 - have enough information to undertake beaver reintroduction

- You **will**
 - know enough to be dangerous
 - know what critical questions to ask
 - have an idea about where to start

RESTORING BEAVER TO RESTORE RIVERS

A Guidebook Utilizing Beaver in River Restoration

Greg Lewallen, PSU



Photo credit: Janine Castro

STRUCTURE

- Beaver Ecology
- Beaver Management
- Restoration Techniques

CONTENT

ECOLOGY

- Natural History
- FAQs
- Myth Busters

Chris Jordan

MANAGEMENT

- Site Potential
- Hydrology
- Climate change
- Water Quality
- Channel Form
- Habitat

Michael Pollock

RESTORATION TECHNIQUES

- Recolonization
- Reintroduction
- Resource
Supplementation
- Riparian Plantings
- BDAs
- MGMT Existing
Populations
- Case Studies

Kent Woodruff

Regulatory Process: *Local Representatives*

Peer-Review, Case Studies, Additions

Gregory Lewallen

MEM Candidate, PSU

glew2@pdx.edu

503-349-4865