



CLIMATE CHANGE IMPACTS

**ON NATURAL RESOURCE MANAGEMENT IN THE COLUMBIA RIVER BASIN
JUNE 24- 25, 2008 - BOISE CENTRE ON THE GROVE, SUMMIT AUDITORIUM,
BOISE, IDAHO**

PURPOSE OF WORKSHOP

To provide resources and information to natural resource scientists and managers who work to conserve Columbia River Basin ecosystems. To engage scientists and managers in developing conservation strategies that anticipate and respond to a changing climate.

ATTENDEES

Resource managers, planners, program leads, scientists, information & data specialists from Federal, State and Tribal agencies, and conservation groups.

AGENDA: JUNE 24

Opening

8:00 a.m. Anne Kinsinger, USGS Western Regional Director

Foundational Discussion

8:15a.m. Climate Change and Implications for Conservation
Jeff Burgett, Ph.D., Recovery Biologist, FWS

9:00a.m. Climate Drivers and Climate Changes in the Columbia Basin
Philip Mote, Ph.D., Research Scientist, University of Washington, Climate Impacts Group;
Washington's State Climatologist

9:45 a.m. Break

10:00 a.m. Species and Biodiversity Responses to Climate Change
Jean Brennan, Ph.D., Senior Climate Change Scientist, Defenders of Wildlife

10:45 a.m. Species Climate Sensitivity Analyses
Elizabeth Gray, Ph.D., Director of Science, The Nature Conservancy, Washington

11:15 a.m. Panel on Prioritizing Conservation Management Decisions in Light of Climate Change —
Challenges and Solutions (Q&A and Discussion)
Jean Brennan, Jeff Burgett, Elizabeth Gray, Philip Mote (listed above)

Noon Lunch

AGENDA: JUNE 24, CONT'D

Columbia Basin Ecosystems Module 1: Forests and Rangeland

- 1:15 p.m. Climate Change Effects on Western Forests
Dave Peterson, Ph.D., Research Biologist, USFS Pacific Northwest Research Station,
Professor, College of Forest Resources, University of Washington
- 2:00 p.m. Forest Adaptation Strategies and Actions
Kathy O'Halloran, Natural Resources Staff Officer, USFS Olympic National Forest
- 2:45 p.m. Break
- 3:00 p.m. Climate Change Effects on Rangeland Ecosystems
Nicole DeCrappeo, Soil Ecologist, USGS Forest and Rangeland Ecosystem Science Center
- 4:00 p.m. Forests and Rangeland Panel (Q&A and Discussion)
Dave Peterson, Kathy O'Halloran, Nicole DeCrappeo (listed above)
Joined by: Jeff Foss, Project Leader, FWS Snake River Fish and Wildlife Office
Kate Kitchell, Deputy Center Director, USGS Forest and Rangeland Ecosystem Science Center
- 5:00-6:30 p.m. Tools for Manager: Poster Session & Product Demonstrations
Evening Social with w/ Cash Bar and Light Snacks
Location: The "Peregrines" Room (across from the Summit Auditorium)

AGENDA: JUNE 25

Columbia Basin Ecosystems Module 2: Aquatic Ecosystems and Hydrology

- 8:00 a.m. Hydrologic Implications of Climate Change for the Western U.S., Pacific Northwest and the
Columbia River Basin
Alan Hamlet, Ph.D., Research Scientist, Water Resources Engineer, University of Washington,
Climate Impacts Group
- 9:00 a.m. Climate Impacts to Groundwater Resources and Surface Water Recharge
John Vaccaro, Hydrologist, USGS, Washington Water Science Center
- 9:45 a.m. Break
- 10:00 a.m. Changes in Historical Patterns of Streamflow from Unregulated Watersheds
Greg Clark, USGS, Idaho Water Science Center, Idaho
- 10:30 a.m. Climate Change and Native Species Responses in Riverine Ecosystems of the Pacific Northwest
Jason Dunham, Ph.D., Research Aquatic Ecologist, USGS Forest & Rangeland Ecosystem Science Center
- 11:30 a.m. Lunch

AGENDA: JUNE 25, CONT'D

- 12:30 a.m. Predicting effects of climate change on aquatic biota:
developing a decision support system for the Yakima River Basin
Alec Maule, USGS, Western Fisheries Research Center, Washington
- 1:00 p.m. Adaptation Strategies to Mitigate Climate Change Impacts to Freshwater Species
and Ecosystems
Allison Aldous, Ph.D., Director of Research and Monitoring, The Nature Conservancy, Oregon
- 2:00 p.m. Aquatic Ecosystems and Hydrology Panel (Q&A and Discussion)
Alan Hamlet, John Vaccaro, Greg Clark, Allison Aldous, Alec Maule (listed above)
- 2:45 p.m. Break

General Session

- 3:00 p.m. State and Federal Efforts to Reduce and Mitigate Carbon Emissions, and Congressional
Efforts to Provide States, Federal Agencies and Tribes Funding to Adapt to Climate Change
Michael Powelson, Director of Agency Relations, Western U.S., The Nature Conservancy
- 3:45 p.m. Executives Panel
Climate Change — Implications for Resource Managers in the Columbia Basin
Steve Morey, Ph.D., FWS (Moderator)
Liz Agpaoa, Deputy Regional Forester, U.S. Forest Service, Region 6
Ren Lohofener, Ph.D., Regional Director, Fish and Wildlife Service
Virgil Moore, Deputy Director, Idaho Department of Fish and Game
Tim Personius, Deputy Regional Director, Bureau of Reclamation
Frank Shipley, Acting NW Area Executive, U.S. Geological Survey
- 4:45 p.m. Close

Sponsors

U.S. Fish and Wildlife Service
U.S. Geological Survey
University of Washington Climate Impacts Group
U.S. Forest Service (R6)
U.S. Forest Service Pacific Northwest Research Station

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