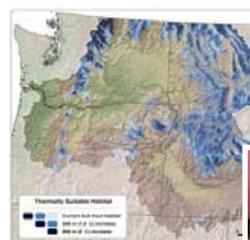
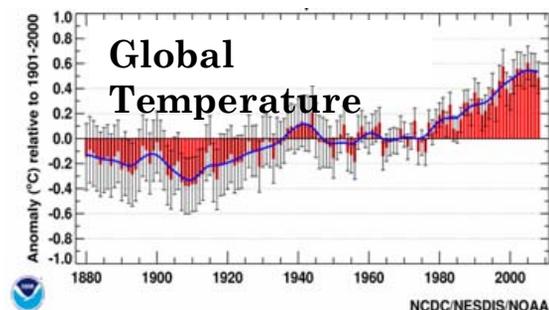


Understanding and Adapting To Climate Change in Aquatic Ecosystems at Landscape and River Basin Scales: A decision support workshop for integrating research and management

Concern and uncertainty exist regarding the effects of climate change on aquatic ecosystems. Limited information has been available to guide management decisions but new analytical techniques and spatial data linked to downscaled climate projections could help. These tools provide high resolution information across broad areas, which may make it possible to consider management or restoration schemes under a range of climate scenarios. This workshop provides an opportunity for researchers and managers to begin exploring the utility of these tools.



Workshop objectives: Gather a diverse group of researchers and management professionals to focus on three objectives: 1) sharing current information regarding the effects of climate change on aquatic ecosystems, 2) presenting analysis tools that could assist managers in addressing climate change, and 3) discussing management implications of climate change, the utility of existing tools, and future information and analysis needs.

Format: Facilitated, interactive two day workshop. Day 1 is a climate change short course with subject matter specialists providing overviews of predicted and observed climate change effects on stream ecosystems. Day 2 explores application of new analysis tools to address management options under different climate scenarios in a central Idaho landscape.

When: February 28/March 1, 2011 (just prior to the Idaho AFS meeting)

Where: DoubleTree Riverside, Boise, ID (same venue as Idaho AFS meeting)

Room reservations: call 208.343.1871, reference Forest Service Climate Aquatics workshop

Webinar: Presentations on Day 1 and 2 can be viewed online. Webinar pre-registration and viewing directions can be found at the workshop website:

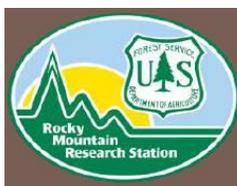
http://www.fs.fed.us/rm/boise/AWAE/workshops/climate_aquatics_decision_support.shtml

Additional questions: contact Dan Isaak (disaak@fs.fed.us, 208.373.4385)

U.S. Forest Service

Science Application & Integration Program

Air, Water & Aquatics Program



Co-sponsors:

Great Northern LCC





Day 1 Agenda (February 28): A climate-aquatics short-course

- 830-845: Introductory remarks and workshop goals (Dan Isaak, USFS)
- 845-900: Remarks from workshop co-sponsors
- 900-1000: Large group discussion: what do we want to learn?
- 1000-1030: Climate change overview for the western US (Steve Hostetler, USGS)
- 1030-1040: Break
- 1040-1100: Hydrologic response to climate change for western US (Charlie Luce, USFS)
- 1100-1120: Wildfire and vegetation response to climate change (Rachel Loehman, USFS)
- 1120-1140: Effects of climate change on channel morphology and scour regime
(John Buffington, USFS and Jaime Goode, UI)
- 1140-1200: Effects of changing flow regimes on aquatic physical habitat
(Jim McKean, USFS)
- 1200-100: Break for lunch
- 100-120: Stream thermal response to climate change (Dan Isaak, USFS)
- 120-140: Fish population response to climate change (Seth Wenger, TU)
- 140-210: Large group discussion: reactions to science presentations and initial questions
- 210-230: Introducing a real-world example with bull trout
- 230-240: Break
- 240-330: Small group discussions: prioritizing bull trout management without climate change information
- 330-430: Large group discussion: reporting back prioritization choices

- 600-800: Evening social

Day 2 Agenda (March 1): Applying climate information to decision making

- 830-850: Opening remarks and day 2 goals
- 850-910: Integrating climate change effects with management (Bruce Rieman, USFS, retired)
- 910-930: NetMap as a tool for land management decisions (Gordie Reeves, USFS and Lee Benda, Earth Systems Institute)
- 930-940: Introduction of spatially explicit climate scenarios for the bull trout example
- 940-1000: Bayesian belief networks, a potential tool for decision support (Doug Peterson, USFWS)
- 1000-1010: Break
- 1010-1110: Small group discussions: re-prioritizing management actions with spatially explicit climate change scenarios
- 1110-1200: Large group discussion: reporting back prioritization choices
- 1200-100: Break for lunch (1240-100: John Chatel, SNF - Sawtooth National Forest experience with a climate-aquatics vulnerability assessment)
- 100-120: Large group discussion: integrating climate with management decisions
- 120-130: Break
- 130-200: Small group discussion: utility of the information and tools provided
- 200-300: Large group discussion: report back from small groups
- 300-400: Large group discussion: did we accomplish our goals? What are key next steps?