

# Climate Change, Wildlife, and Wildlife Habitat

## January 30 – January 31, 2012

### **Location:**

NHS Hall, Center for Urban Horticulture, University of Washington, 3501 NE 41<sup>st</sup> St., Seattle, WA

### **Background:**

This is the fourth workshop in a series of workshops on climate change vulnerability assessment and adaptation planning as part of the North Cascadia Adaptation Partnership (NCAP). These resource-specific workshops follow a series of four climate change education workshops that were held at each of the forests and parks participating in NCAP.

NCAP is developing climate change vulnerability assessments and adaptation strategies for four resource sectors: (1) fish and fish habitat, (2) vegetation and ecological disturbance, (3) hydrology and access, and (4) wildlife and wildlife habitat.

This two-day workshop will cover climate change effects on wildlife and habitat in the North Cascadia region. The first day will focus on assessing the sensitivity of individual species to climate change and species-based approaches to adaptation. The second day will focus on assessing the sensitivity of habitat types and identifying adaptation strategies and example tactics that are focused on wildlife habitat. Results from this workshop will be incorporated into a final report on climate change effects, vulnerabilities, and adaptation options for the North Cascadia ecosystem, which will be published as a Forest Service General Technical Report in summer 2012.

### **Workshop objectives:**

- 1) Identify key sensitivities of wildlife and wildlife habitat to changes in the North Cascadia ecosystem.
- 2) Review current wildlife management priorities and share management approaches that already consider climate and climate change.
- 3) Use the latest scientific information on climate change and projected effects to identify adaptation strategies and tactics for wildlife and habitat, which can then be implemented by the Forests and Parks.
- 4) Identify opportunities to work with other partners to develop adaptation strategies and tactics that cross jurisdictional boundaries in the North Cascadia ecosystem.

## **Agenda:**

### **Day 1 – Species Sensitivity Assessment and Adaptation Planning**

9:00 – 9:15 Welcome and overview of objectives  
*Crystal Raymond, USFS PNW Station*

9:15 – 10:05 **Climate Change and Wildlife Species Distributions, Demography, and Phenology**  
*Josh Lawler, University of Washington*

10:05 – 10:20 Break

#### **Overview of Wildlife Management and Current Priorities**

It is important to put climate change sensitivities in the context of current management goals and priorities for wildlife and wildlife habitat.

10:20 – 10:35 Overview of wildlife management – Mason Reid, MORA

10:35 – 10:50 Overview of wildlife management – Bob Kuntz, NOCA

10:50 – 11:05 Overview of wildlife management – Jesse Plumage, MBSNF

11:05 – 11:25 Overview of wildlife management – Bill Gaines and Andrea Lyons, OWNF

11:25 – 11:50 Large group discussion on management goals and species v. habitat approaches to climate change adaptation.  
*Facilitator – Regina Rochefort, National Park Service*

#### **11:50 – 1:00 Lunch on your own**

#### **Sensitivity Assessment and Adaptation Planning for Wildlife Species**

1:00 – 1:30 **Climate Change Sensitivity Database – Results for Key Species in the North Cascadia Region**  
*Michael Case, University of Washington*

1:30 – 1:45 Large group discussion on sensitivity database results  
*Facilitator – Michael Case, University of Washington*

1:45 – 2:45 Small group exercise: assess the sensitivity of selected species (groups divide by species)

2:45 – 3:00 Large group discussion on use of the Climate Change Sensitivity Database  
*Facilitator – Michael Case, University of Washington*

3:00 – 3:15 Break

3:15 – 4:00 Small group discussion: species-based approaches to climate change adaptation

4:00 – 4:20 Large group discussion: summary of and responses to small group discussions  
*Facilitator – Crystal Raymond, USFS PNW Station*

4:20 – 4:30 Wrap up and next steps  
*Crystal Raymond, USFS PNW Station*

## **Day 2 – Adaptation Planning for Wildlife Habitat**

- 9:00 – 9:05 Opening comments and overview of objectives  
*Crystal Raymond, USFS PNW Station*
- 9:05 – 9:10 Summary of key points from species assessment (Day 1)  
*Crystal Raymond, USFS PNW Station*
- 9:10 – 9:40 **Climate Change Effects on Wetland Habitat**  
*Maureen Ryan, Western Washington University*
- 9:40 – 10:10 **Management Options for Eastside Wildlife Habitats**  
*John Lehmkuhl, Research Wildlife Biologist, USFS PNW Station*

### **10:10 – 10:30 Break**

- 10:30 – 11:00 **Wildlife Habitat Connectivity Working Group**  
*Meade Krosby, University of Washington*
- 11:00 – 11:30 Panel and large group discussion with morning presenters  
*Facilitator – Crystal Raymond, USFS PNW Station*
- 11:30 – 12:15 **Adapting Wildlife Management to Climate Change: Perspectives and Updates from NCAP Partners**  
*Lynn Helbrecht, Climate Change Coordinator, Washington Department of Fish and Wildlife*
- Climate Change and Sustainable Forest Management in Canada*  
*Jason Edwards, Canadian Forest Service*
- Mary Mahaffy, Science Coordinator, North Pacific Landscape Conservation Cooperative*
- Sean Finn, Science Coordinator, Great Northern Landscape Conservation Cooperative*

### **12:15 – 1:30 Lunch on your own**

## **Working Session – Sensitivity Assessment and Adaptation Planning for Wildlife Habitat**

- 1:30 – 1:40 Introduce small group working session objectives  
*Crystal Raymond, USFS PNW Station*
- 1:40 – 2:45 Small group working sessions to: (1) assess habitat sensitivity, (2) identify adaptation strategies and tactics, and (3) identify opportunities and barriers to implementation (groups divide by habitat types).
- 2:45 – 3:00 Break**
- 3:00 – 3:30 Small group discussion continued.
- 3:30 – 4:00 Large group discussion on adaptation strategies identified in small groups (5 minute summary per group).
- 4:00 – 4:15 Wrap up and next steps.  
*David Peterson, USFS PNW Station*