

March 13-15 2012, Portland, Oregon Habitat Restoration Workshops

February 15 Draft

Climate Savvy Aquatic Restoration Workshop [Training]

Dates: March 13-14

Location: Regional Office, Basement Conference Room, Portland, Oregon

Target audience: FWS Region One restoration biologists, program coordinators and managers; biologists who consult on, or develop restoration options for species or habitats (e.g., NRDAR, Recovery Planning)

Partners for Fish and Wildlife Program and Coastal Program Training

Dates: March 14-15

Location: Regional Office, Basement Conference Room, Portland, Oregon

Target audience: FWS Region One Partners Program and Coastal Program biologists and other FWS restoration biologists that would like to attend.



Climate Savvy Aquatic Restoration Workshop [Training]

GOALS AND BENEFITS

The Fish and Wildlife Service is planning a one and a half day “Climate Savvy Restoration” workshop in Portland on March 13th and 14th, 2012. The target audience is USFWS habitat restoration biologists (*e.g.*, from the Partners for Fish and Wildlife Program, Coastal Program, Fisheries, NRDAR, Refuges, migratory bird management, recovery biologists, and other biologists who consult on, or develop restoration options for species or habitats. The workshop will focus on one habitat type that most restoration biologists share, riparian and aquatic systems. This will allow an in-depth, application-based approach to the learning and training workshop.

Plenary sessions will introduce basic issues, tools, and approaches for integrating climate change considerations in aquatic habitat restoration planning and projects. Breakout sessions will then apply these principles to on-the-ground problems in group exercises. The emphasis will be on helping participants go through the thought processes that they, as field biologists, are faced with when addressing climate issues, starting with prioritizing work areas and then choosing specific restoration sites and techniques.

Goals:

- Increase knowledge and use of tools that help restoration biologists understand climate sensitivity of species and habitats;
- Identify techniques to help select habitat restoration focus areas, techniques and projects to address climate change;
- Define and provide concrete examples of ‘robust decisions’ and ‘climate-change resilient’ restoration strategies;
- Provide a process and information that allow participants to conduct similar exercises for their geographic/management areas and with their partners. The tools and strategies provided at the workshop should ideally provide a framework for follow-up actions by regional and field office staff.
- Each participant will use the information and tools to address climate change threats and adaptation to an existing or planned restoration project.

Benefits:

- Exchange of relevant information among programs and stations working on similar issues with each other and experts in the field;

- Opportunity to learn about and share practical guidance and examples of how to make decisions in the face of significant uncertainties and how to incorporate adaptive changes along the way;
- Promote adaptation planning and action; provide tools and encourage priority setting; and
- Provide venue for the field staff to determine the value/need for additional climate change research needs, workshops and/or regional strategy on climate savvy restoration.

PROPOSED APPROACH AND AGENDA

Approach:

- Pre-workshop reading will be assigned to introduce the basic issues and concepts.
- The workshop will include sessions that illustrate the foundations, methods, and tools of climate savvy restoration in aquatic habitats. These will include group activities and be followed by breakout sessions as much as possible.
- Plenary sessions will use salmonid stream restoration as a common example to provide continuity.
- Participants will divide into breakout groups focused on a variety of Region 1 aquatic ecosystems, providing most participants the opportunity to work on their primary areas of interest and expertise.
- All presenters are asked to provide relevant resources (articles, websites, models, etc.) and include them in their presentations. We will post all presentation on a sharepoint site that will be accessible to all participants after the workshop.
- Breakout groups will mix representatives from USFWS divisions and programs to encourage cross-programmatic approaches to concrete problems that pool resources and address multiple management needs. We will use RSVPs and pre-workshop surveys to establish the teams.
- The workshop will emphasize strategies for identifying the best decisions in uncertain situations, i.e., what is a 'robust' restoration decision when a variety of future scenarios are possible?
- Workshop participants will develop viable outlines for how to proceed in creating area-specific and/or species-specific plans

Class Materials are Online at: <http://ecoadapt.org/workshops/detail/5>

This includes worksheets, reading and recommended climate trends and climate change resources.

Conference Call and WebEx Information:

Conference Call Information: Dial-in Number: 877-952-8012 Passcode: 520083#

WebEx Information—NOTE that the links change from Day 1 to Day 2

Day 1, Tuesday, March 13, 2012

Meeting Number: 741 603 282

Meeting Password: Savvy

To start or join the online meeting go to

<https://mmancusa.webex.com/mmancusa/j.php?ED=179181222&UID=494717212&PW=NMTQ5NjlxNzZi&RT=MiM0>

Day 2, Wednesday, March 14, 2012

Meeting Number: 745 835 082

Meeting Password: Savvy

To start or join the online meeting go to

<https://mmancusa.webex.com/mmancusa/j.php?ED=179181262&UID=494717212&PW=NMjExYjBiZmMy&RT=MiM0>

DAY 1, Tuesday, March 13, 2012

- 10:00 Welcome (David Patte, Climate Change Coordinator, Lara Hansen, [EcoAdapt](#), course co-organizer and facilitator)
- 10:10 Introduction, workshop structure, review of pre-workshop surveys and homework-- Framing approaches and solutions (Lara Hansen)
- 10:30 Review projected climate change for Pacific Northwest
Projected Impacts to Species and Ecosystems for Pacific Northwest
(Michael Case, University of Washington, Sensitivity Database Manager, Pacific Northwest Vulnerability Assessment Project) (20 min. + 5min. Q&A)
- Summary of climate change models, down-scaling, and how to get localized data on temperature, precipitation, stream flow and temperature; synthesis products by sector and by watershed type; (David Patte, R1 Climate Change Coordinator—Provides R1 Synthesis Product and Tools; Quick Review and Walk Through) (10 min. +5min Q&A)
- 11:10 Assessing species and habitat sensitivity to climate change
(Michael Case, UW)
- Provide “How to” skills/handouts for rapid assessments of species & habitat sensitivity
 - Provide information on completed assessments from the PNW Database
 - Group Exercise: 1 habitat sensitivity analysis; 1 species sensitivity analysis
- 12:00 Lunch**
- 1:00 Vulnerability Assessment for Pacific NW Salmonids
(Tim Beechie, NOAA)
- 1:30 Break out groups/ Facilitated Exercise **Based on Your Restoration Plan/Project**
--Determine what F&W resources are sensitive to climate, and how
--Determine climate sensitivity of your habitat/ecosystem
--Determine how your restoration goals may be affected by a changing climate
- 3:00 Reconvene as a Group: Report/Discuss
- 3:30 Project-scale prioritization: A decision support tool and literature review that assesses how ‘robust’ choices of aquatic habitat restoration techniques address specific climate change threats to salmonids
(Tim Beechie NOAA)
- 4:00 FWS/Ecotrust Regional Aquatic Prioritization and Mapping Tool for Oregon, Washington, and Idaho.
This web-based tool identifies focal areas by synthesizing climate change projections, watershed condition, freshwater species occurrence and abundance, and invasive species information (Dan Shiveley, FWS Fisheries; Mike Mertens, Ecotrust)
- 4:30 Vulnerability Assessment Recap (Lara Hansen, EcoAdapt) Provide a template to guide the groups through Day 2 activities: **Sensitivity + Exposure +/- Adaptive Capacity = Vulnerability → Evaluate and select restoration strategy and technique(s) that address vulnerability**
- 5:00 Adjourn

DAY 2 Continue Climate Savvy Training (½ day – morning only), Wed, March 14, 2012

- 8:00 Climate Impacts on Streams and Coldwater Fishes in the West
(Jason Dunham, Forest and Rangeland Ecosystem Science Center, USGS)
- 8:35 Invasive Species and Climate Change
Synthesis and checklist for current/potential increased invasive species threats
(Paul Heimowitz, Regional Aquatic Nuisance Species Coordinator)
- 9:05 Break
- 9:30 Break out Session (**cont. from Day 1, Based on Your Restoration Plan**)
-Continue restoration plan/project analysis
-Assess how the habitat restoration techniques you have chosen address climate impacts
-Outline final vulnerability assessment (focused on the goal of the restoration project)
- 11:15 Reconvene as a Group: Report/Discuss

Breakout Groups : Attendees will bring a completed or planned on-the-ground restoration plan/project for the breakout session activities. Attendees that do not directly work on project-level restoration planning and implementation will be paired with those who do. EcoAdapt and FWS subject matter experts will facilitate each group and be available to answer questions. Breakout groups will be geographically based and determined via pre-meeting surveys:

East of the Cascades (basement conf room- stay where you are—both days 27 total) (21 in person; 6 WebEx)

Facilitators: Tim Beechie and David Patte

WebEx and Telephone Conference Line – Same as for the Presentations

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West of the Cascades (excl. Coastal) (2nd floor B Conf room -- both days) 23 total (16 in person; 6 WebEx)

Facilitators: Lara Hansen and Michael Case

Conference Call Number: 866-560-1158 Passcode: 742224#

Web Ex Kathy Hollar to initiate) <http://www.mymeetings.com/nc/join.php?i=741054574&p=Partners&t=c>

2. Enter the required fields.
3. Indicate that you have read the Privacy Policy.
4. Click on Proceed.

Coastal (3rdFloorEAST Conf room -- both days) 14 (12 in person; 2 WebEx)

Facilitator: Chris Swenson

Conference Call Number: 877-900-6432 Passcode: 1216766#

Web Ex info (Chris to initiate)

1. Click on <http://www.mymeetings.com/nc/join.php?i=SA407149&p=9699&t=c>

2. Enter the required fields.
3. Indicate that you have read the Privacy Policy.
4. Click on Proceed

Pacific Islands (5th Floor Conf room on 13th) 8 total (6 in person; 2 WebEx)

Facilitator: Eric Mielbrecht

Conference Call Number: 888-846-7508 Passcode: 4109592#

Web Ex info (Eric to initiate)

1. Join the meeting now:

<http://www.mymeetings.com/nc/join.php?sigKey=mymeetings&i=742971927&p=R1FIS&t=c>

2. Enter the required fields.
3. Indicate that you have read the Privacy Policy.
4. Click on Proceed.