

# Training Opportunity!

[www.forestadaptation.org/NH](http://www.forestadaptation.org/NH)

**November 18-19, 2015**

## Climate Change & New England Forests

Natural resource professionals face the tremendous challenge of developing and implementing conservation and management actions that help ecosystems respond to climate change.

This session will:

- Provide information on the current and anticipated effects of climate change on New England's forests
- Describe resources and tools that can be used to integrate climate change into resource conservation and management
- Outline adaptation concepts and actions in the context of sustainable forest management
- Identify actions that enhance the ability of forests and other ecosystems to adapt to changing conditions

Real-world examples of adaptation projects will be featured, and participants will engage in activities to identify climate change issues and potential management responses.

### Details

#### **DATES:**

November 18-19, 2015

One-day (Nov. 18) or two-day (Nov. 18-19) options available.

#### **LOCATION:**

Hubbard Brook Research Forest  
234 Mirror Lake Road  
North Woodstock, NH

#### **COST & REGISTRATION:**

\$20 per day (includes lunch)

To ensure your space, please register at <http://bit.ly/1KQly5i> by Nov 13.

Registration questions can be directed to Annarie Van Coesant [annarie.vancoesant@unh.edu](mailto:annarie.vancoesant@unh.edu) (603) 862-1028

#### **PROGRAM CONTACTS:**

Karen Bennett  
UNH Cooperative Extension  
[Karen.Bennett@unh.edu](mailto:Karen.Bennett@unh.edu)

Maria Janowiak  
Northern Institute of Applied Climate  
Science and U.S. Forest Service  
[mjanowiak02@fs.fed.us](mailto:mjanowiak02@fs.fed.us)



# November 18: Forest Adaptation Seminar

## Agenda

- 8:30 **Registration & Coffee**
- 9:00 **Welcome & Introduction**
- 9:20 **New England's Changing Climate**  
*Cameron Wake, University of New Hampshire*
- 10:00 **Break**
- 10:30 **Climate Change Effects on Water**  
*John Campbell, U.S. Forest Service Northern Research Station*
- 11:00 **Climate Change Effects on Forest Ecosystems**  
*Maria Janowiak, Northern Institute of Applied Climate Science*
- 11:30 **Climate Change Effects on Wildlife**  
*David King, U.S. Forest Service Northern Research Station*
- 12:00 **Lunch** (provided as part of registration)
- 1:00 **Forest Adaptation in the Real World**  
*Maria Janowiak, Northern Institute of Applied Climate Science*  
*Si Balch, Manomet's Climate Smart Land Network*
- 2:00 **Break**
- 2:15 **Activity: Integrating Climate Change into Your Work**
- 4:00 **Adjourn**

*This agenda has been approved for 5.0 category 1  
Continuing Forestry Education credits.*

### **DRIVING DIRECTIONS TO HUBBARD BROOK RESEARCH FOREST:**

Rte. 193 to exit 30. At the bottom of the exit ramp turn right onto Route 3 South. Travel 1.1 miles (coming from the south) or 1.5 miles (coming from the north) to Mirror Lake Road on right. There is a small sign for the Hubbard Brook Experimental Forest here. Proceed along Mirror Lake Road to the end of the road to the Forest Service building.

*Physical address: 234 Mirror Lake Road, North Woodstock, NH*

### More Information

Find out more about the Climate Change Response Framework and this training at [www.forestadaptation.org/](http://www.forestadaptation.org/)

Questions? Contact Maria Janowiak  
[mjanowiak02@fs.fed.us](mailto:mjanowiak02@fs.fed.us)  
906-482-6303x29

The Climate Change Response Framework is a core forest adaptation component of the USDA Midwest and Northeast Regional Climate Hubs.



## November 19

*An active, hands-on training to help natural resources managers incorporate climate change considerations into their own real-world forest management projects.*

# Forest Adaptation Planning & Practices

**This active, hands-on training will be held on November 19 for a limited number of participants.** Natural resource managers will incorporate climate change considerations and identify actions for adaptation into their own real-world forest management and conservation projects.

## Is this training for me?

This training is designed for public, private, and tribal natural resource managers who are interested in enhancing the ability of forests to cope with changing conditions.

Individuals and small teams can participate in this training. Bringing a small team may help projects consider a variety of management considerations, such as wood, water, and wildlife.

**This training requires, participation in the November 18 workshop, some pre-meeting preparation (see next page), and active engagement.**

## What are the benefits of participation?

Through this training, participants will be able to:

- Use *Forest Adaptation Resources* in real-world management projects to:
  - ➔ Identify challenges and opportunities for management
  - ➔ Develop actions to adapt forests to changing conditions
  - ➔ Implement their own “climate-informed” forest management project
- Access post-training support from the Northern Institute of Applied Climate Science.

## Interested in this session?

Because this session requires some additional preparation, it is recommended that you contact Maria Janowiak prior to registering for the two days.

[mjanowiak02@fs.fed.us](mailto:mjanowiak02@fs.fed.us)

(906) 482-6303 x29

# November 19: Additional Training Session

## Agenda

- 8:30 **Registration**
- 8:30 **Introduction**  
Introduce participants and instructors.  
Outline objectives and agenda for training.
- 9:00 **Climate Change Impacts on Forest Management Projects**  
Describe forest management projects and most important climate change impacts.  
Identify additional climate change impacts relevant to the project locations.  
Complete Adaptation Workbook Step #2.
- 10:00 **Break**
- 10:15 **Challenges and Opportunities for Meeting Management Objectives – Breakouts/Discussion**  
Identify challenges and opportunities relevant to the project management objectives.  
Evaluate whether it is feasible to achieve management objectives.
- 11:30 **Identifying Forest Adaptation Approaches and Tactics – Breakouts/Discussion**  
Select potential adaptation actions from the menu of Adaptation Strategies and Approaches.  
Evaluate potential adaptation tactics as part of Adaptation Workbook Step #4.
- 12:00 **Lunch**
- 1:00 **Identifying Forest Adaptation Approaches and Tactics – Breakouts/Discussion**  
Select potential adaptation actions from the menu of Adaptation Strategies and Approaches.  
Evaluate potential adaptation tactics as part of Adaptation Workbook Step #4.
- 3:00 **Break**
- 3:15 **Identifying Metrics for Monitoring and Evaluating Effectiveness – Breakouts/Discussion**  
Identify metrics to evaluate the effectiveness of adaptation actions as part of Workbook Step #5  
Complete Adaptation Workbook Step #5
- 4:00 **Next Steps & Wrap-up**
- 4:30 **Adjourn**

*This agenda has been approved for 6.5 category 1  
Continuing Forestry Education credits.*



### Examples of Real-world Forest Adaptation

Examples of forest adaptation efforts that have used *Forest Adaptation Resources* and gone through this process are online at:

[www.forestadaptation.org/  
demonstration-projects](http://www.forestadaptation.org/demonstration-projects)

# November 19: Additional Training Session

## Pre-Work for November 19 Session

Prior to the training, we ask participants identify a project that will be used during the training and gain familiarity with key resources prior to the training, which helps make the best use of our time together in person.

### We ask that you do the following before participating in the November 19 session:

- Select a forest or natural resource management project to use for the training. Given the limited amount of time available, it's recommended that the project be relatively small and limited in scope. Projects that focus on developing management plans or implementing management activities (timber harvest, invasives removal, habitat improvement, etc.) on areas up to a few hundred acres in size generally work well for this type of training.
- Complete Step #1 of the Adaptation Workbook. Electronic copies are available in Microsoft [Excel](#) and [Word](#) formats.
- Assemble relevant materials and information your project (maps, management plans, etc.) for use during the training.
- Contact Maria Janowiak ([mjanowiak02@fs.fed.us](mailto:mjanowiak02@fs.fed.us); 906-482-6303x29) with any questions about the pre-work.

### To the extent that your time and interest allow (i.e., this is optional), you may also want to:

- Read the report [\*Changing climate, changing forests: The impacts of climate change on forests of the northeastern United States and eastern Canada.\*](#)
- Begin to think about:
  - What potential climate change impacts are most likely to affect the project area?
  - What characteristics of the project area make it more or less vulnerable to climate change?
- Review the [Adaptation Strategies and Approaches](#) of [Forest Adaptation Resources](#) (Chapter 2, pgs. 15-34) and review the [one-page list](#) of the strategies and approaches.
- Read the Introduction (pgs. 1-7) and scan the Adaptation Workbook (Chapter 3, pgs. 35-56) of the [Forest Adaptation Resources](#).
- Explore [Adaptation Demonstrations](#) that have been developed through the Climate Change Response Framework. This diverse set of demos have all used the Adaptation Workbook to integrate climate change information into management and conservation projects and provide real-world examples of forest adaptation activities.