



Forest Adaptation Planning and Practices Online Course

Welcome to the course! Here's what you need to know...

You're signed up for the Forest Adaptation Planning and Practices Online Course! We're excited to have you in our class, and we look forward to helping you integrate climate change information into your real-world management projects. Through this workshop, you'll be able to:

- Identify locally-important climate change impacts, challenges, and opportunities
- Develop specific actions to adapt forests to changing conditions
- Use the [Adaptation Workbook](#) to create your own "climate-informed" projects
- Better communicate with stakeholders about key climate change impacts, challenges, and opportunities
- Access post-training support from NIACS staff during project planning and implementation

Course Format

This course follows a five-step process to develop climate change adaptation projects using the online Adaptation Workbook (www.adaptationworkbook.org). The course format will include individual (or project group) work time to complete one step at a time of the adaptation workbook, followed by a web meeting to focus on the step just completed that will dive deeper into your projects, help answer questions, and get you ready for the next step.

The web meetings will take place on Thursdays at 2:00-3:30pm Eastern / 1:00-2:30 pm Central. Mark your calendars for meetings on these dates: January 21 and 28, February 4, 11, 18, and 25.

Connection details are:

- Phone: 888-844-9904, access code: 3270392
- Web meeting room: <https://umconnect.umn.edu/fapponline/> (Please join first session a bit early; your computer may need to install a small add-on before entering the room.)

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Course Schedule

Course Preparation —Complete by January 15

To make sure you're really ready to dive into the course during the week of January 18, we would like you to get your account set up on the Adaptation Workbook. Instructions for creating an account and linking it to the course are located in the back of this packet.

Assignment 1 —Complete by January 20

Complete Step 1 of the Adaptation Workbook (to the best of your ability): Define project goals and objectives. Set aside 2-4 hours for completion, as time will vary based upon your project.

A Pre-work checklist is provided in the Step 1 Course Materials of the online Adaptation Workbook.

Session 1 — January 21

Topic: Introduction to the Online Course and Adaptation Workbook

- Defining project scope and management goals/objectives
- Introductions of course participants and projects
- Learning from demonstration projects
- Sources of information for climate change impacts
- What you need to know for Step 2

Assignment 2 — Complete by January 27

Complete Step 2 of the Adaptation Workbook: Assess climate impacts and vulnerabilities. Set aside 3-4 hours for completion since this is a more involved step.

Session 2 — January 28

Topic: Understanding and Evaluating Climate Change Vulnerabilities

- Discussion of climate change impacts and vulnerabilities of your projects
- Prioritizing vulnerabilities of greatest concern for management goals/objectives
- What you need to know for Step 3

Assignment 3 — Complete by February 3

Complete Step 3 of the Adaptation Workbook: Evaluate objectives considering climate impacts. Set aside 2-4 hours for completion, as time will vary based upon your project.

Session 3 — February 4

Topic: Evaluating Management Challenges and Opportunities

- Re-considering and revising management goals/objectives in light of climate challenges and opportunities
- Practice articulating climate-adaptive management goals/objectives
- What you need to know for Step 4

Assignment 4 — Complete by February 10

Complete Step 4 of the Adaptation Workbook (to the best of your ability): Identify adaptation approaches and tactics. Set aside 3-4 hours for completion since this is a more involved step.

Session 4 — February 11

Topic: Identifying Adaptation Strategies, Approaches and Tactics

- Meeting existing demands while preparing for future conditions
- Developing specific and actionable management plans for climate-change adaptation
- What you need to know for Step 5

Assignment 5 — Complete by February 17

Complete Step 5 of the Adaptation Workbook (to the best of your ability): Monitor effectiveness of implemented actions. Set aside 2-4 hours for completion, as time will vary based upon your project.

Session 5 — February 18

Topic: Monitoring and Evaluating Effectiveness

- Tools for measuring effectiveness of implemented adaptation actions
- Capitalizing on existing data, inventory or monitoring processes/partnerships
- Tips for communicating and sharing adaptation projects

Assignment 6 — Complete by February 24

Finish up any loose ends and complete homework 6 within the Adaptation Workbook. Then, take some time to summarize your project to share with the course participants as well as your colleagues and partners. Set aside 3-4 hours for completion of this assignment, or potentially more if you have to return to some previous steps.

Session 6 — February 25

Topic: Telling your Adaptation Story

- Discussion and sharing of participant adaptation projects
- Next steps for moving toward implementation
- How we can help you in the future

This course has been approved for 9.0 category 1 Society of American Foresters Continuing Forestry Education credits. Send requests for a certificate to Molly Roske (Molly.Roske@colostate.edu), with your SAF member number.

This course is a collaboration among the Northern Institute of Applied Climate Science, the University of Minnesota, the US Forest Service, and the USDA Northern Forests Climate Hub.



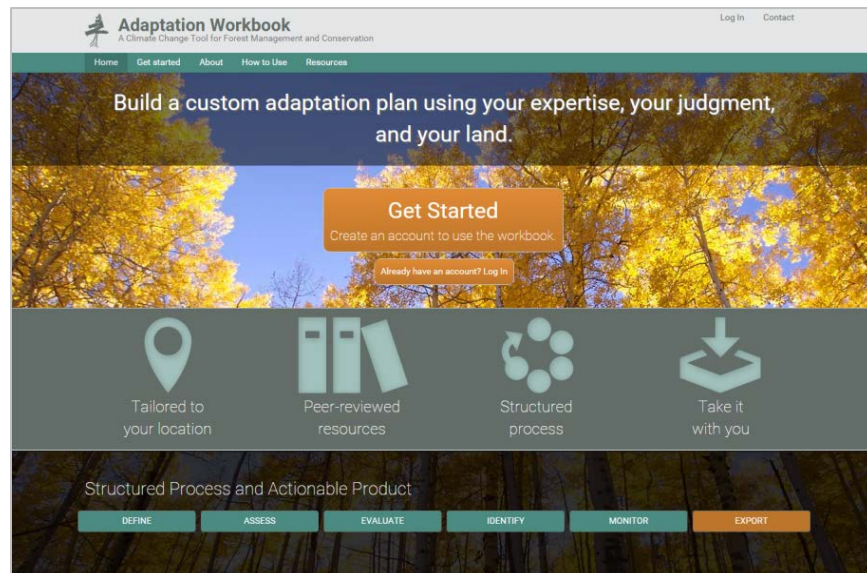
Setting up Your Account and Course Project

Please set up your Adaptation Workbook account (if you haven't already done so) by January 15 so that we can make the course features available to you before you start.

- Do not start a course project before getting confirmation from an instructor that you've been added to the course or you may have to start over from the beginning.
- If you have a small team, use one person's email address to create an account that you can share among the group. You can then take turns working on the course project and decide how to tackle course assignments among your team. Unfortunately, it's not possible to work on the same course project from two different accounts at this time.

Part 1: Creating an Account

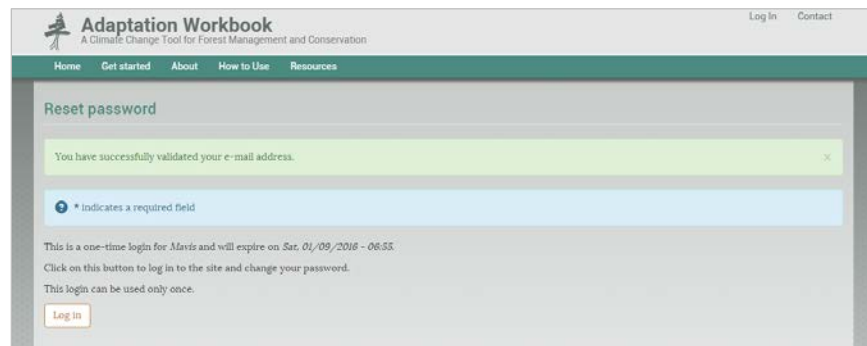
- a. Navigate to www.AdaptationWorkbook.org. Click on "Get Started" to create an account



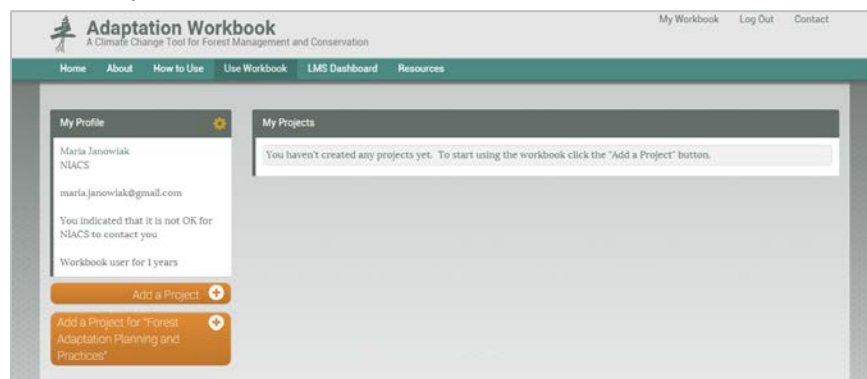
- b. Create a new account (username, email address, etc.). Be sure to check the terms and conditions/privacy policy, and select the check-box allowing the instructors to help you as you go through the workbook. When you have entered all of the information, click "Create new account."

The screenshot shows the "Create new account" form. At the top, it says "You are not logged in." with links "I have an account" and "I want to create an account". The form has several input fields: "Username *", "E-mail address *", "Confirm e-mail address *", "Your full name *", and "Organization". Below these is a checkbox for "I have read and agree to the Adaptation Workbook terms and conditions and privacy policy. *". A red arrow points to a checkbox at the bottom labeled "It is OK to contact me about my Adaptation Workbook experience or to offer me assistance in my planning process".

- c. The next screen will direct you to confirm your new account. You will need to check the email of the account that you've linked to the Adaptation Workbook, find a confirmation email (from info@adaptationworkbook.org), and click the confirmation link.
- d. The link will take you to a one-time login screen that will require you to create a site password. Click "Log in" and create a password on the following screen.



- e. Once logged in, you will see your Workbook dashboard.



Part 2: Getting Added to the Course (IMPORTANT!)

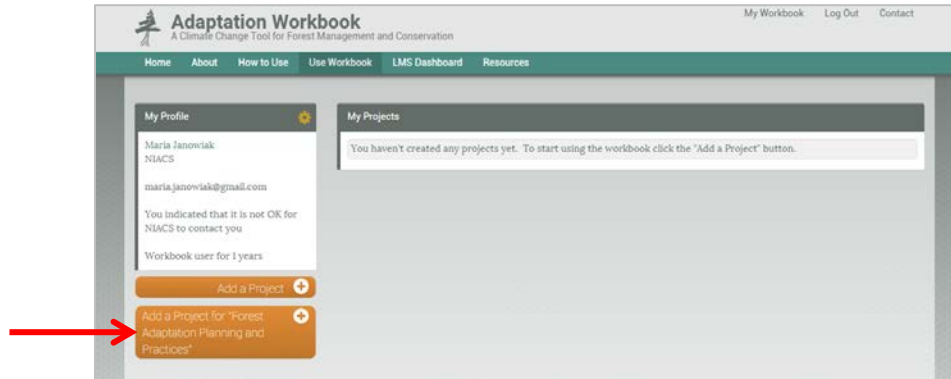
While you can use the Adaptation Workbook in its regular configuration at any time, you will need to create a project with a special affiliation to the Forest Planning and Practices course. In the above screenshot of the dashboard, the second orange Add Project button (larger) will not appear until you have been enrolled in the course by an instructor.

To turn on course features, you will need to send the email address associated with your Adaptation Workbook account to Molly Roske (Molly.Roske@colostate.edu) by January 15.

Part 3: Starting a Course Project

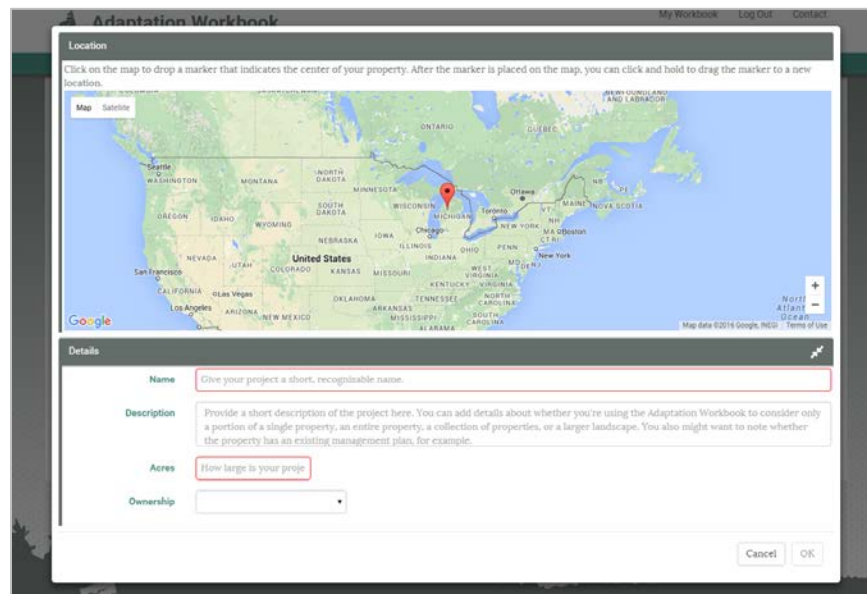
You will be notified when you have been added to the course. After that, return to the Adaptation Workbook and log in. You will now have a new button on your dashboard that says "Add a Project for 'Forest Adaptation Planning and Practices.'"

- a. Click the "Add a Project for 'Forest Adaptation Planning and Practices'" button.



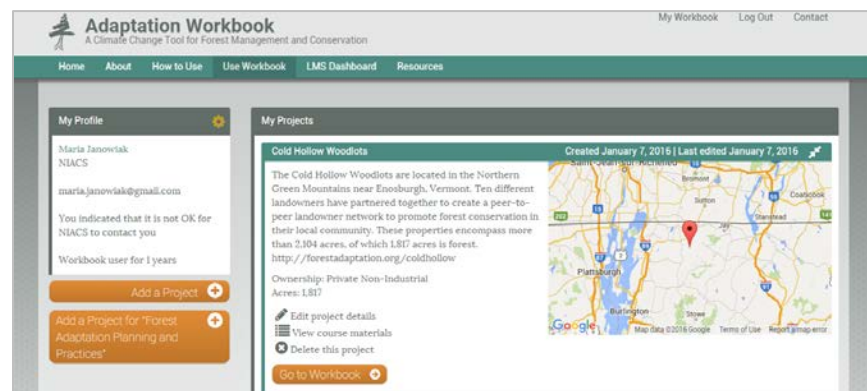
b. Place a marker at the approximate location of the project. Note that if you want to maintain privacy, you can select a nearby intersection or town. Some tips for placing the marker are:

- Use the (+) and (-) buttons to zoom in and out.
- Click and hold the map to pan the view.
- A single click will place the marker on the map.
- To move the marker, click and drag it to the desired location.

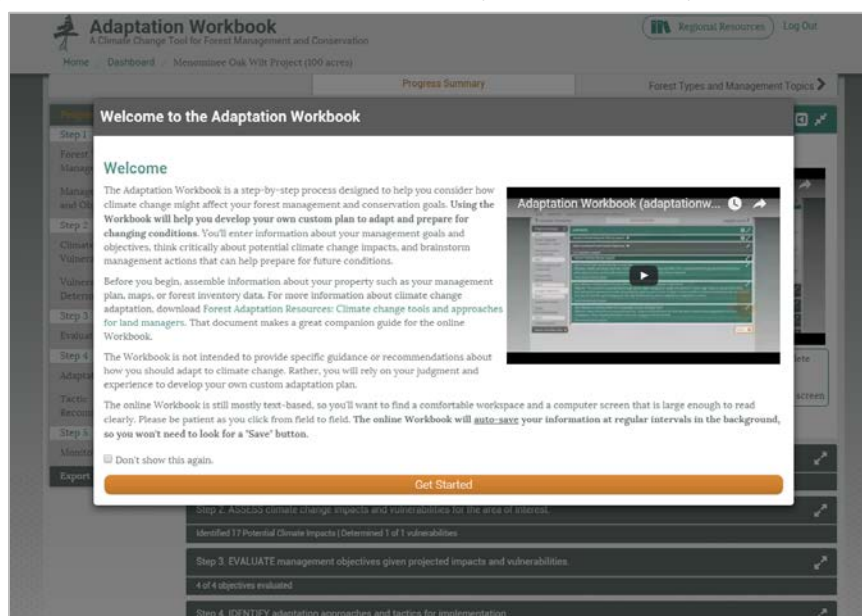


c. Enter a project name, description, acreage, and ownership. The level of detail that you provide is up to you—this information will be included in the project summary report that you may want to produce upon completion.

d. This project will now appear in your dashboard. To begin your project, click “Go to Workbook.”



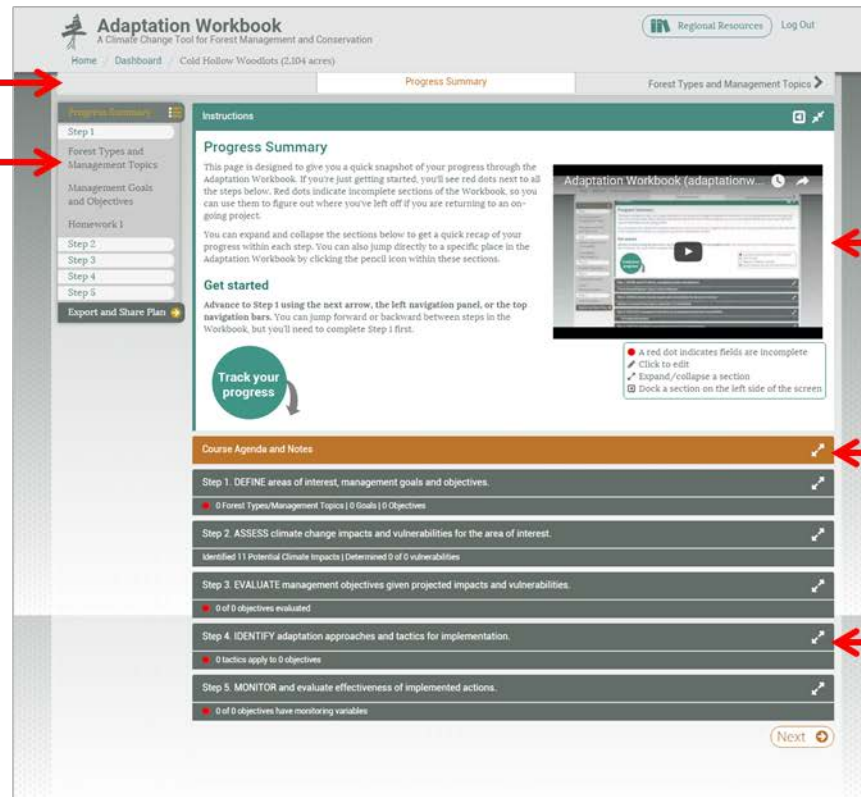
- f. A short dialog will appear with more information about the course, as well as a short video introducing you to the features of the Adaptation Workbook. Read the information, watch the video, and click “Get Started.”



The Progress Summary Page

When you first start the workbook you will be sent to the course summary page. Here are a few highlights for that page:

Navigate between
steps using the
navigation along the
top bar
or
lefthand column



Watch **videos** for
helpful tips on
using the site

Look for **course
information** in
orange sections

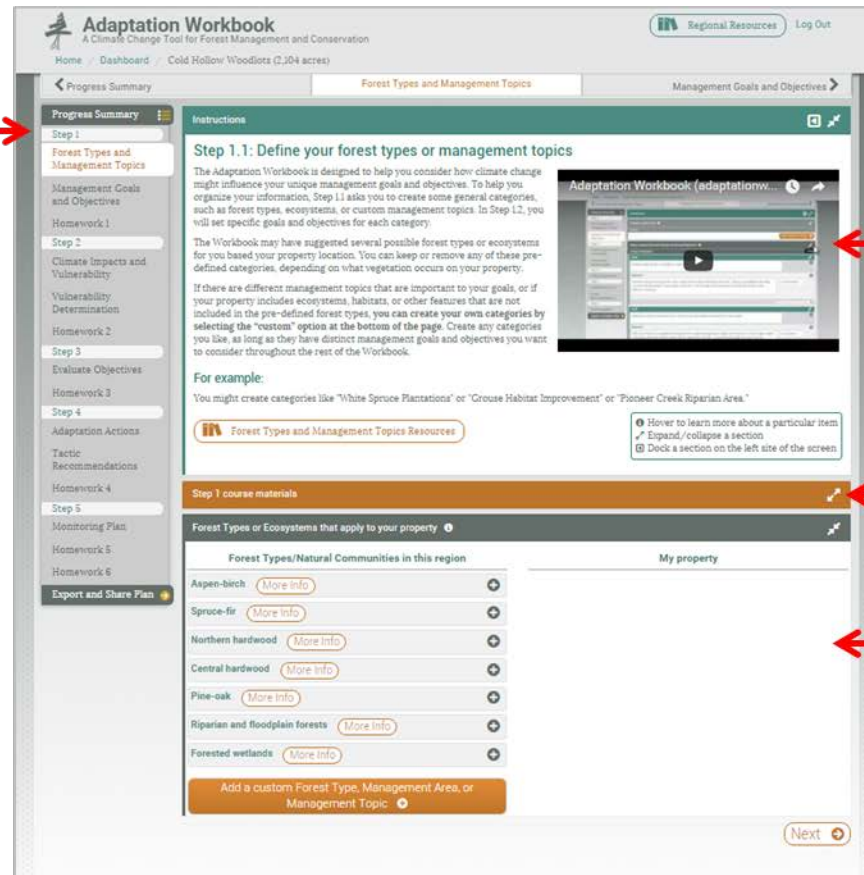
View **progress** for
each step in a
single location

Click on “Forest Types and Management Topics” to begin Step 1!

Beginning Step 1

Work to complete Step 1 before Session 1 on January 21. If you have questions or encounter difficulties, contact the appropriate instructor listed on the last page of this document.

There are **three parts to Step 1**, including a short homework



Watch **videos** for helpful tips for completing this step

Be sure to review the **course material** first!

Begin by entering your **Forest Types and Management Topics**

Good luck, and we'll talk to you on the 21st!

Instructors & Contact Information

Molly Roske, Colorado State University



Molly focuses on forest management research and outreach in the context of climate change, in close collaboration with NIACS . As coordinator of the Adaptive Silviculture for Climate Change study, she manages a national network of study sites with academic and government research partners. She also prepares training programs and publications communicating research findings and forest management implications to a wide-ranging audience of land stewardship professionals. A proud Minnesota native, Molly is now outside getting to know the Colorado landscape as often as she can.

Email: Molly.Roske@colostate.edu Phone: 970-491-2916 (*Note new email and phone at CSU!*)

Contact Molly with questions about: course logistics, planning, and assignments.

Maria Janowiak, Northern Institute of Applied Climate Science & US Forest Service



Maria Janowiak is the coordinator for the New England Climate Change Response Framework, serving the states of New York, Vermont, New Hampshire, Maine, Massachusetts, Connecticut, and Rhode Island. Maria is also a co-coordinator of the Northwoods Climate Change Response Framework, with an emphasis on northern Wisconsin and Michigan's western Upper Peninsula. Maria has been working with land managers on issues related to climate change and adaptation since 2007. Outside of work, Maria is often found spending time with her bicycles and garden.

Email: mjanowiak02@fs.fed.us Phone: 906-482-6303 x29

Contact Maria with questions about: Adaptation projects in New England or other locations in the eastern U.S.

- Mashantucket Pequot Tribe
- Seabasticook Regional Land Trust
- Daybreak Services
- Southern New Hampshire University
- Green Ways Center
- Providence Water
- North Carolina State University
- Natural Resources Conservation Service
- Vermont Agency of Natural Resources

Stephen Handler, Northern Institute of Applied Climate Science & US Forest Service



As a Climate Change Specialist at NIACS, his primary role is to coordinate the Northwoods Climate Change Response Framework throughout Minnesota, Wisconsin, and Michigan. This effort includes preparing vulnerability assessments, engaging stakeholders across the forestry community, and planning demonstration activities to model climate-informed forest management. Stephen spends his free time cutting, splitting, stacking, and carrying firewood.

Email: sdhandler@fs.fed.us Phone: 906-482-6303 x21

Contact Stephen with questions about: adaptation projects in the Northwoods, western US, or elsewhere.

- Northflow, LLC
- Nadarra Forestry LLC
- Private landowners/consultants in MN
- Oregon State
- Great Lakes Indian Fish & Wildlife Commission
- US Forest Service Northeastern Area