

Science Applications and Needs Workshop

April 27-28, 2010 Monona Terrace Madison, WI

Objectives: *Identify management approaches that can enhance the ability of ecosystems in northern Wisconsin to cope with climate change and address how we might use National Forests and other lands to test new approaches.*

April 27th

- 8:00 Registration and Coffee
- 9:00 **Introductory Remarks and Workshop Objectives**
Chris Swanston, Director, Northern Institute of Applied Carbon Science/Research Ecologist, USDA Forest Service
- 9:20 **Welcome**
David Cleaves, Climate Change Advisor to the Chief, USDA Forest Service
- 9:30 **Forest Management in a Changing Climate**
Kent Connaughton, Regional Forester, USDA Forest Service Eastern Region
Thomas Schmidt, Assistant Director, USDA Forest Service Northern Research Station
- 10:00 **Climate Change Projections for Wisconsin**
Michael Notaro, Associate Scientist, Center for Climatic Research, University of Wisconsin-Madison
- 10:30 Break
- 11:00 **Regional Impacts of Climate Change on Forests**
Louis Iverson, Research Ecologist, USDA Forest Service
- 11:30 **Climate Change, Management, and Disturbance in Northern Wisconsin Forests**
David Mladenoff, Professor, University of Wisconsin-Madison
- 12:00 Lunch
- 1:00 **Climate Change, Adaptation and Resource Management**
Linda Joyce, Research Ecologist, USDA Forest Service
- 1:30 **Breakout Session 1: Science Applications and Needs for Adaptation**
- Facilitators:** Avery Dorland, WI DNR (QR, "yellow"); Steve McNulty, USDA Forest Service (KLOP, "red"); Linda Nagel, Michigan Tech (MN, "green")
- Breakout Session Questions:**
1. How can our current knowledge be applied to adaptation strategies on the Chequamegon-Nicolet National Forest (CNNF) and the surrounding landscape?
 2. What additional research activities on the CNNF would help us fill in our current gaps in understanding that impede progress in adaptation?
- 2:30 Break
- 3:00 **Breakout Session 1 (continued)**
- 4:00 **Breakout Session 1 Report-Out and Synthesis**
- 5:00 **Adjourn for Day**

This workshop is part of the Climate Change Response Framework project being co-led by the Northern Institute of Applied Carbon Science, the Chequamegon-Nicolet National Forest, and the USDA Forest Service.

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April 28th

8:00 Recap of Day 1

8:15 **Forest Carbon Sequestration and Mitigation**

Richard Birdsey, Project Leader, Climate, Fire, and Carbon Cycle Sciences, USDA Forest Service

8:45 **Breakout Session 2: Science Applications and Needs for Mitigation**

Facilitators: Ankur Desai, UW-Madison (MN, "green"); Sarah Hines, USDA Forest Service (KLOP, "red"); Tia Nelson, WI Board of Commissioners of Public Lands (QR, "yellow")

Breakout Session Questions:

1. How can our current knowledge be applied to forest carbon sequestration and greenhouse gas mitigation on the CNNF and the surrounding landscape?
2. What research activities could be carried out on the CNNF to help us fill in our current gaps in scientific understanding that impede progress in mitigating greenhouse gas emissions?

9:45 Break

10:15 **Breakout Session 2 (continued)**

10:45 **Breakout Session 2 Report-Out and Synthesis**

11:30 Lunch

12:30 **Monitoring Applications and Needs**

David Cleland, National Program Manager for Vegetation Ecology, USDA Forest Service

1:00 **Breakout Session 3: Monitoring Applications and Needs**

Facilitators: Knute Nadelhoffer, U-M, Ann Arbor (MN, "green"); Greg Nowacki, USDA Forest Service (KLOP, "red"); Brian Palik, USDA Forest Service (QR, "yellow")

Breakout Session Questions:

1. What indicators are currently be monitored on the CNNF and the surrounding landscape, and how can these efforts be applied to adaptation and mitigation efforts?
2. How can we increase monitoring efforts for high-importance indicators of climate change impacts on the CNNF?

2:30 Break

3:00 **Breakout Session 3 Report-Out and Synthesis**

4:00 **Closing Remarks**

4:30 **Workshop Adjourns**

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