

What is CCAMMO?

CCAMMO stands for **C**limate **C**hange **A**daptation and **M**itigation **M**anagement **O**ptions and is an interdisciplinary project with the goal of providing a state-of-the-science analysis of forest management options to guide natural resource decision making in the face of future climate change. The project was led by the USDA Forest Service Southern Research Station and involved SRS scientists, university scientists, and partners in other state and federal agencies throughout the southern U.S.

The project is completed and the results published in a book available from CRC Press. CRC Press published *Climate Change Adaptation and Mitigation Management Options: A Guide for Natural Resource Managers in Southern Forest Ecosystems* in December 2013. From the book website (<http://www.crcpress.com/product/isbn/9781466572751>):

Features

- Offers a synthesis of potential impacts of climate change on southern forest ecosystems
- Addresses the most important threats to and values derived from southern forests
- Uses scenarios and detailed examples to guide readers and assist in applying concepts locally
- Presents common climate scenarios and terminology
- Represents a comprehensive "science-based" guide for Southern forests
- Provides concrete discussions of management options for forest managers dealing with potential climate change impacts on southern forests
- Discusses management options to increase resistance and resiliency to climate change
- Blends forest management, forest ecology, forest hydrology, wildlife and fisheries sciences, social and economic sciences, climate change, and modeling expertise that can be applied and tested

Summary

Forest land managers face the challenges of preparing their forests for the impacts of climate change. However, climate change adds a new dimension to the task of developing and testing science-based management options to deal with the effects of stressors on forest ecosystems in the southern United States. The large spatial scale and complex interactions make traditional experimental approaches difficult. Yet, the current progression of climate change science offers new insights from recent syntheses, models, and experiments, providing enough information to start planning now for a future that will likely include an increase in disturbances and rapid changes in forest conditions.

Climate Change Adaptation and Mitigation Management Options: A Guide for Natural Resource Managers in Southern Forest Ecosystems provides a comprehensive analysis of forest management options to guide natural resource management in the face of future climate change. Topics include potential climate change impacts on wildfire, insects, diseases, and invasives, and how these in turn might affect the values of southern forests

that include timber, fiber, and carbon; water quality and quantity; species and habitats; and recreation. The book also considers southern forest carbon sequestration, vulnerability to biological threats, and migration of native tree populations due to climate change.

This book utilizes the most relevant science and brings together science experts and land managers from various disciplines and regions throughout the south to combine science, models, and on-the-ground experience to develop management options. Providing a link between current management actions and future management options that would anticipate a changing climate, the authors hope to ensure a broader range of options for managing southern forests and protecting their values in the future.

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