

## Template for Assessing Climate Change Impacts and Management Options (TACCIMO)

### TACCIMO: Science at your fingertips

The **Template for Assessing Climate Change Impacts and Management Options (TACCIMO)** is a web-based application that connects federal, state, and private land managers and planners with climate change science they can trust. TACCIMO is a collaborative effort among the USDA Forest Service **Eastern Forest** and **Western Wildland Environmental Threat Assessment Centers** and the National Forest System.

#### TACCIMO features tools to assist land managers and planners, including:

- A searchable collection of climate change effects and management options selected from peer-reviewed literature
- A mapping tool that provides nationally and locally relevant climate data and other models for evaluating climate change impacts on forests
- Report generators that capture information for a specific location and natural resource issue in a consistent and organized manner
- For Forest Service users, science findings that can be readily linked with National Forest land and resource management plans



TACCIMO's mapping tool provides temperature and precipitation projections from a range of climate models and scenarios.



Wildfires could become more frequent and intense under a changing climate. TACCIMO links climate change science and planning to help users develop management strategies for sustaining forest resources.

#### Land managers and planners can use TACCIMO to evaluate climate change science needed to assess, manage, and monitor forest resources by:

- **Identifying problems and connecting solutions** – Scientific literature does not always readily connect climate change effects with appropriate management options. TACCIMO addresses this challenge by matching climate change effects and management options from different sources into a single reference document based on simple criteria.
- **Establishing the range of future climate** – Navigating climate projections can be difficult and time consuming. TACCIMO simplifies this process by identifying a range of projected climate impacts for a specific location and places trends in a regional and national context to better provide perspective on climate change across scales.

• **Linking science with planning** – Over the last several decades, the Forest Service has developed numerous land and resource management plans that guide national forests toward sustainability. Similarly, climate change science is beginning to address forest management information needs. TACCIMO facilitates this connection with simple, time-saving tools that directly link scientific and land management planning knowledge.



*Non-native invasive plants, like kudzu, may gain greater advantage over native plant species under a changing climate. TACCIMO helps users identify problems and management solutions.*

**TACCIMO delivers current, relevant science to a range of users for a variety of tasks, including:**

• **Forest Service Land and Management Plan revisions** – TACCIMO helps forest planners identify direct and indirect impacts of climate change and appropriate management options. Additionally, TACCIMO's archive of land and resource management plan decisions allows forest planners to review current Forest Service planning direction and gain insight into potential management direction changes.

• **Project-level NEPA analysis** – TACCIMO helps project-level managers and coordinators engaged in the National Environmental Policy Act (NEPA) process by providing credible peer-reviewed science to address the effects of climate change on a proposed project, formulate management alternatives, and address public comments.

• **Everyday use** – TACCIMO provides a wealth of information that can be used for self-education of climate change issues. TACCIMO is a literature review and climate modeling resource for forest managers, landowners, students, teachers, researchers, and anyone who is interested in learning more from the current body of climate change knowledge for forest ecosystems.

**TACCIMO includes resources for training and assistance.**

In addition to a detailed user guide and on-demand demonstrations, TACCIMO provides step-by-step video and text assistance in all areas of the website to help users quickly and effectively address impacts of a changing climate on forest resources. To request an online training session, please contact Steve McNulty (principal investigator) at [smcnulty@fs.fed.us](mailto:smcnulty@fs.fed.us) or (919) 515-9489 or Emrys Treasure (project coordinator) at [etresure@fs.fed.us](mailto:etresure@fs.fed.us) or (919) 515-9490.



*The Eastern Threat Center's TACCIMO development team works with partners to enhance the tool and provide training and support for users.*

**For additional information:**

Visit [www.forestthreats.org/taccimo](http://www.forestthreats.org/taccimo) to learn more and begin exploring TACCIMO.

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