Forest Climate Change Initiative (FCCI)

The University of Maine's **Center for Research on Sustainable Forests** has initiated an effort to better coordinate regional research and scientists working on the potential effects of climate change on forests. The University of Maine has significant expertise on climate and forest resources, which exists across academics units, centers, and institutes. The FCCI web portal is intended to serve as a point of access to these resources and encourage networking among university expertise as well as external stakeholders.

crsf.umaine.edu/forest-climate-change-initiative/

FCCI Scientist Profile

Shawn Fraver

Assistant Professor, Forest Ecology

Institutional Affiliations: School of Forest Resources, Center for Research on Sustainable Forests

Research Focus: Northern forest dynamics, structure, biodiversity, and productivity

Shawn Fraver is Assistant Professor of Forest Ecology in the School of Forest Resources. His research is largely field- and laboratory-based and addresses the forest carbon cycle, forest response to disturbance, tree growth–climate relationships, deadwood dynamics, and old-growth forest structure and dynamics. Shawn has a Bachelor of Science from Penn State University, a Master of Science from NC State University, and a Doctorate from the University of Maine. He has been at the University of Maine since 2013, after working in Sweden and Minnesota.

Forest Climate Change Research Focus

Linking annual tree growth with CO_2 flux measures of forest productivity at the Howland Research Forest, Maine

- Quantifying climate – growth relationships at the forest-stand level, in relation to past silvicultural treatments
- Assessing deadwood decomposition, as it relates to forest carbon fluxes
- Improving measurements of deadwood to better assess forest carbon storage
- Monitoring forest fuel moisture as it relates to weather fluctuations
- Reconstructing the history of forest disturbances based on patterns evident in tree rings

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