



Pushing the limits: experimental warming at the temperate-boreal forest ecotone

Wednesday 21 May 1 - 2pm

Speaker

Rebecca Montgomery

Associate Professor,
Department of Forest Resources,
College of Food, Agricultural and Natural
Resource Sciences,
University of Minnesota.

Location

Slatyer Seminar Room

R.N. Robertson Building (Bldg. 46),
Linnaeus Way, ANU

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This lecture is free and open to the public

PSS event information:
biology.anu.edu.au/News/events-ps.php



Populations at the warm edge of species ranges may be particularly sensitive to climate change, but lack of empirical data on such responses represents a key gap in understanding future range dynamics. In this talk, I present results on the impacts of experimental warming on the performance of 11 tree species that co-occur at the ecotone between temperate and boreal forest in North America, but differ in geographic distribution. From 2009-present tree saplings from local sources have been exposed to a manipulative open-air warming experiment that uses infrared heat lamps and soil heating cables to elevate temperature by +1.7°C and 3.4°C above- and below ground. I will discuss responses of leaf physiology, leafing phenology, and tree growth.

About the speaker

Rebecca A. Montgomery is Associate Professor in the Department of Forest Resources in the College of Food, Agricultural and Natural Resource Sciences at the University of Minnesota. Associate Professor Montgomery's current research focuses responses of forest tree species to global change especially climate change. She has worked in tropical, temperate, and boreal ecosystems. She teaches Forest Ecology and a 3-week summer course in Northern Forests Field Ecology.

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