

Follow-up Workshop Report

Invertebrate Impacts on Ecosystem Services under Climate Change: A Synthesis Using Insights from the LTER Network

April 2, 2010 – April 5, 2010
Harvard Forest

Workshop Leaders:

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Workshop Participants: Chuan-Kai Ho, Anthony Joern, John Kominoski, Angela Laws, Scott Newbold, Sheena Parsons, Shannon Pelini, Chelse Prather, Emily Rivest, Israel Del Toro, and Megan Woltz

Workshop Summary:

This follow-up workshop was held at Harvard Forest from April 2 – April 5, following our 2009 ASM Working Group: “Invertebrate impacts to ecosystem services under climate change”. Ten of the 11 participants are early career ecologists- either post-docs or graduate students.

Invertebrates are important components of most ecosystems, filling a variety of niches. As such, invertebrates should play crucial roles in structuring ecosystem services in many systems. However, the role of invertebrates in providing ecosystem services is often ignored, and comprehensive reviews are surprisingly lacking. Our goal was to prepare manuscripts highlighting the importance of invertebrates to ecosystem services and the likely effects of climate change on invertebrate control of ecosystem services

Products:

We initially intended to produce two manuscripts. The first was a general review of invertebrate impacts on ecosystem services. The second was a review of the potential for climate change to alter invertebrate impacts on ecosystem services. Both manuscripts were submitted for publication, but initially rejected. After some consideration, we decided to merge the two manuscripts. We currently have one manuscript (reference below) which was submitted to Biological Reviews. We are currently in the process of revising the manuscript, which we were invited to resubmit. We are hopeful that the manuscript will be accepted after revisions. We will provide a pdf of the manuscript and an official reference when it is accepted for publication.

Chelse M. Prather, Shannon Pelini, Angela Laws, Emily Rivest, Megan Woltz, Christopher P. Bloch, Israel Del Toro, Chuan-Kai Ho, John Kominoski, T. A. Scott Newbold, Sheena Parsons, A. Joern (*In revision*). Invertebrates, ecosystem services and climate change. Biological Reviews.