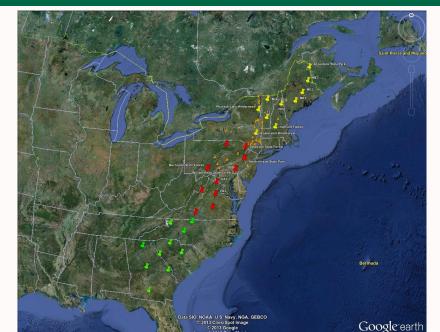
Aphaenogaster sampling

John Stanton-Geddes

Department of Biology University of Vermont

June 6, 2013



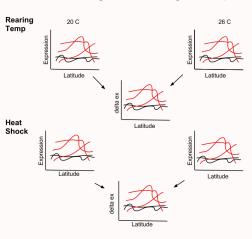
Goals

- Identify genes underlying differences among populations in thermal tolerance
- Evaluate the extent to which selection has acted on climate-related genes

Ovation 3' Digital Gene Expression (DGE) Tags



Common gardens for gene expression



Challenges

A. picea and A. rudis



Population genomics of Aphaenogaster

SNPs in 3' tail of gene expression tags



- Do genes with significant changes in expression among sites have reduced molecular diversity? different haplotypes?
- How are populations structured?
- What is the extent of gene flow? Male vs female dispersal?