Spatial and temporal distribution of moth species in the western Cascades

By Olivia Poblacion
Mentor: Dr. Julia Jones
Research Setting

- H.J. Andrews Experimental Forest
- Eco-informatics Summer Institute
Moths & Meadows

Questions:
Where are the moths? What factors determine their presence/absence?
When do the moths emerge? What factors determine their emergence date?

Why Moths & Meadows?
Response to climate change
Shrinking habitat
Vegetation surveys

Common host plants of the H.J. Andrews Forest.

Ribes viscossimum  sticky currant
Delphinium spp.  delphinium
Aquilegia formosa  red columbine
Tsuga heterophylla  western hemlock
Acer circinatum  vine maple
Moth trapping and identification
Climate & degree days

July Mean Minimum Temperatures

July Mean Maximum Temperatures

Estimated Degree Day Accumulation: Trap Site 3K

Graph showing degree day accumulation from 2003 to 2007.
Science communication