

## **2010 Climate Change Focus Group:**

### **Resolutions:**

**There is a need to organize a process to prioritize tree species/populations at high risk and then develop base host tree data** – tree species/populations occurrence, abundance, and genetic information needed to manage impacts under the uncertainty of changes caused by climate. Recognize that unforeseen insect pest and pathogen outbreaks are likely under a rapidly changing climate.

**There is a need to initiate a process to prioritize insect and pathogen species threatening high risk host trees and**

**develop pest data through further research** --describe basic biology, population genetics, and ecological interactions recognizing that unforeseen insect pest and pathogen outbreaks are likely under a rapidly changing climate.

Statement of interest to FHM about the need for enhanced monitoring of phenology of hosts and agents and how these are influenced by climate change in ways they impact forest health.

Increased cooperation and networking with other agencies that deal with climate change.

## Discussion:

Concern about genetic research. Need genetic research funding (R&D) for various long standing I&D issues across the country.

Need to model present conditions before we can predict future conditions. Need strategy or mechanism to deal with the uncertainties of climate change. **Still need**

**to know base host data** tree species locations, genetics needed on forest host species so that we can manage for this as extirpation and declines continue -

discussion about data sources, usage of FIA data, resolutions, scale, etc. Difficult to find where the rare host types are. Much of this

same information will be used for both invasives as well as climate change and genetics needs.

Borys – past yr resolutions – lichens, etc and discussion about the need to still look at the resolution to commission an assessment of the risk of climate change and related susceptibility to genetic degradation, extirpation, or extinction of North American tree species. This should include recommendations about which trees to monitor and how to monitor them.

“Uncertainty management strategy” -  
What “matters” of this uncertainties. What

are the info gaps, where do we focus our efforts. “Spatial representations of uncertainties”- hosts, pests, etc.

You don't need to be paralyzed by uncertainty – you need to manage in spite of it. Management for sustainable ecosystems is not new – keep on managing for it.

Climate monitoring needs – Annualized surveys for all states so that we have at least base data for all states.

FIA pilot projects (downscale climate data collection) add this onto plots – subsample of plots. Researchers currently have to do a lot of interpolation between current climate data stations (for example SNOTEL Sites).

Last CC FG resolution was to capture legacy

data to be able to predict future patterns (outbreaks) –was done in some states. Will currently consider A&R proposals for this type of work seriously.

Pilot FIA genetic data collection project currently being done –maybe need to be more strategic on how we do this level of sampling. For example, P3 sampling levels – national phenological project additions considerations.

FHM is good at identifying pests & diseases. Maybe mgmt team can reach to other networks to develop protocols – cooperation with other agencies networks to access databases and knowledge. Power of cooperation.