

# SECC Fall Planning Meeting

## Renewing the SECC

Terrestrial Resources  
Thoughts and considerations for planning

John P. Hayes

# For the purposes of SECC planning, what are “terrestrial resources”?

Perhaps for our purposes it is best defined by what it is not...

- non-agricultural
- non-coastal
- non-marine systems

# For the purposes of SECC planning, what are “terrestrial resources”?

Perhaps for our purposes it is best defined by what it is not...

- non-agricultural
- non-coastal
- non-marine systems

Includes (among other things)

---

Non-marine and non-coastal natural resources

Many native ecosystems

Much of our native biodiversity

Forests, streams, swamps, and lakes

A diverse array of ecological goods and services

# Potential ecological changes in terrestrial systems in response to climate change

Changes in distributions of native species

Changes in distributions and success of invasive exotics

Changes in productivity of natural systems

Changes in distribution of disease organisms

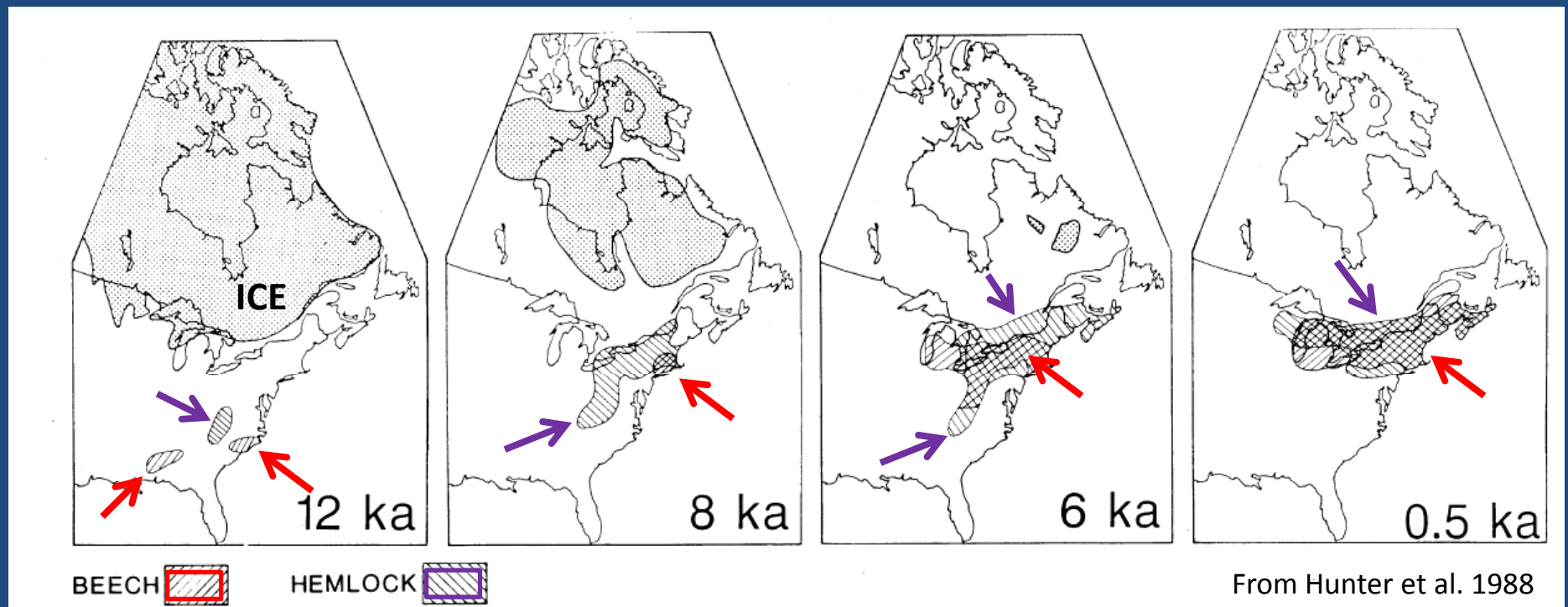
Local, regional, and global extinctions of species

Changes in environmental services (e.g., pest control, pollination)

Cascading environmental effects

## Biotic responses to changes in climate change are complex.

Simplistic models to predict responses of ecological systems to climate change are likely to be wrong.



Species demonstrate individualistic responses to changes in climate

## Key questions and issues for the region:

What key resources are likely to have the greatest influence on health and functioning of the region's terrestrial ecosystems under a changing climate regime?

How do the public, land management agencies and organizations, and economic interests interface with these resources, and how are climate-induced changes likely to impact those relationships?

What potential strategies can be adopted to mitigate negative consequences of climate-induced changes in terrestrial ecosystems?

What are the predicted efficacy, costs, benefits, and environmental consequences of alternative adaptive strategies?