Protecting New Hampshire's Wildlife in a Changing Climate

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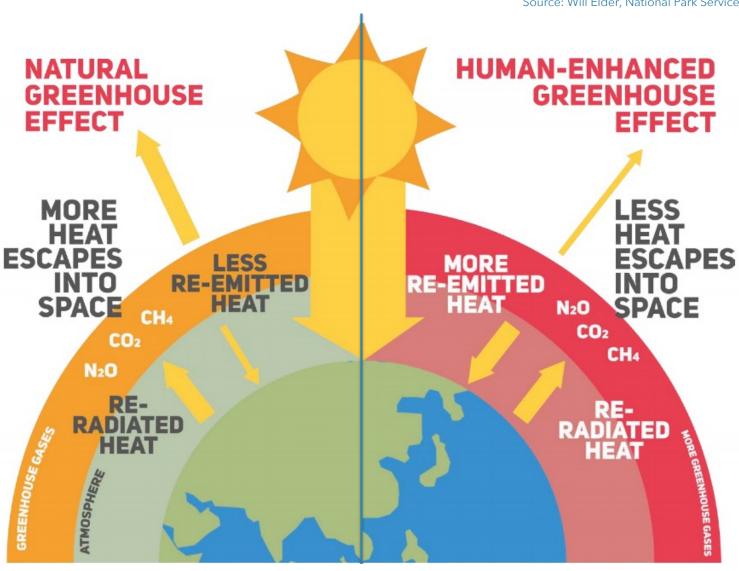
51st New Hampshire Association of Conservation Commissions Annual Meeting and Conference November 6, 2021

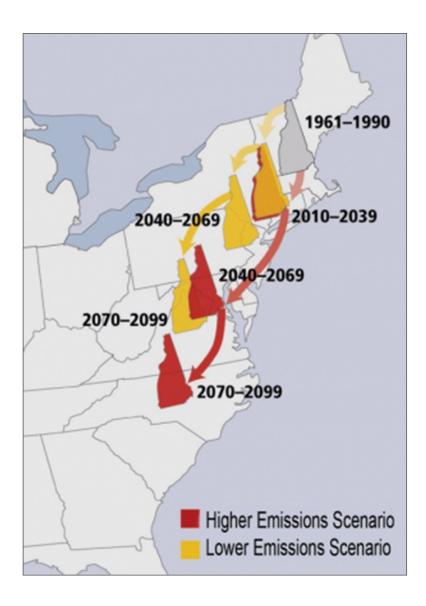
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What does this mean for New Hampshire?

Warmer temperatures, especially in winter

Seasonal shifts in precipitation

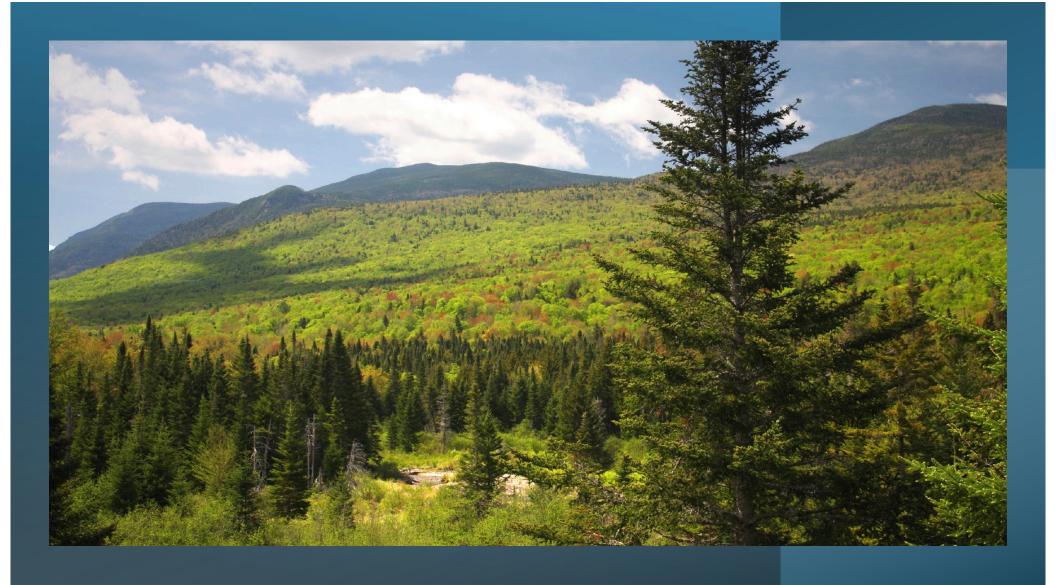
Reduced snowpack and ice cover

Longer frost-free season

More extreme precipitation

More intense storms

Rising seas





Extreme storms and flooding

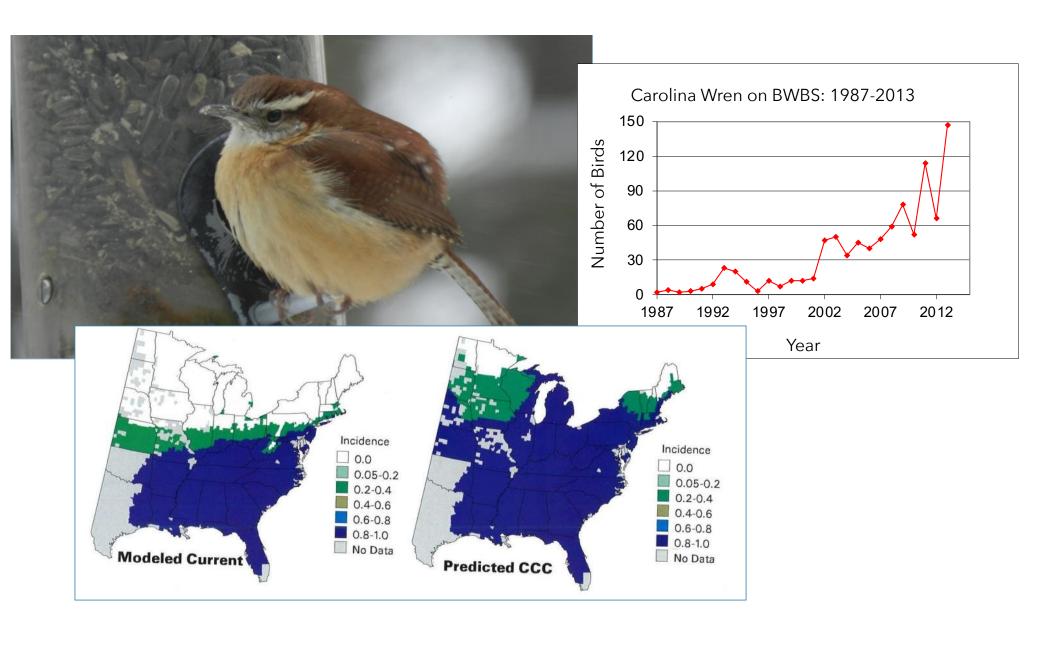




Snow depth and winter ice



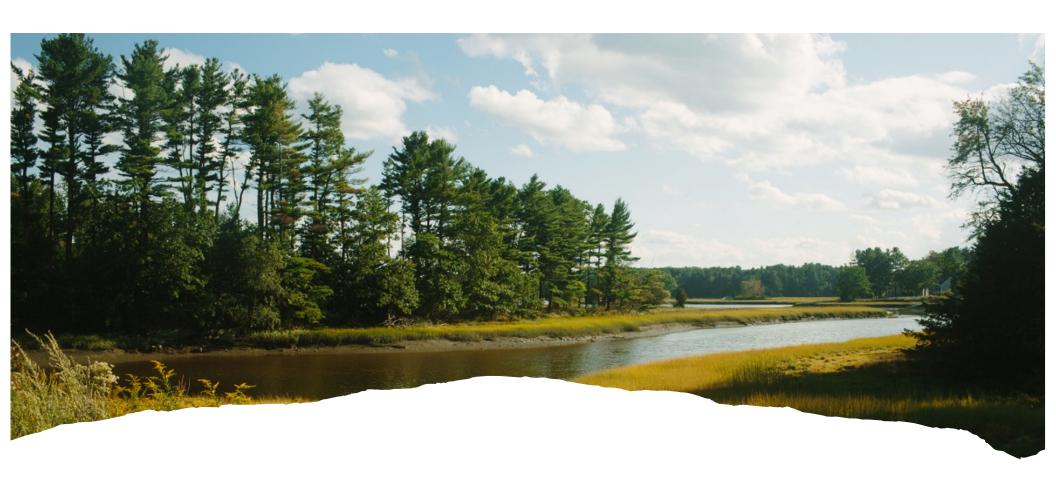
Shifts in plant communities and wildlife







Phenology

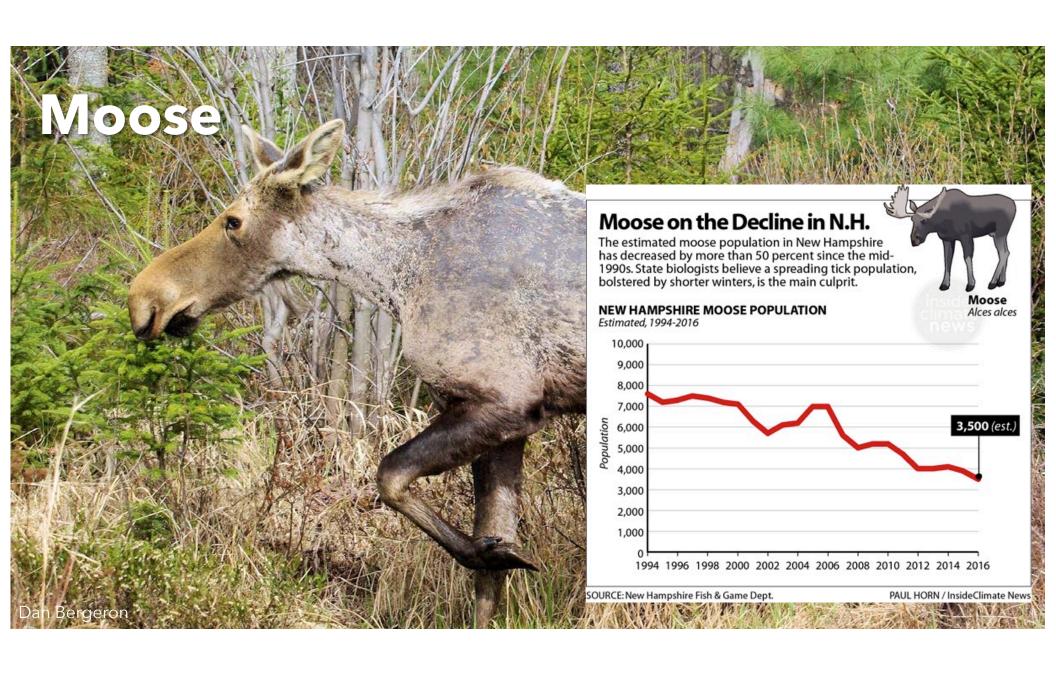


Loss of thermal habitat



Invasive species and pests













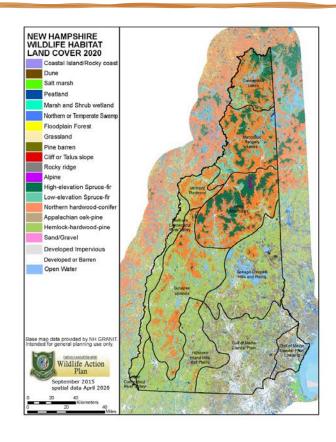


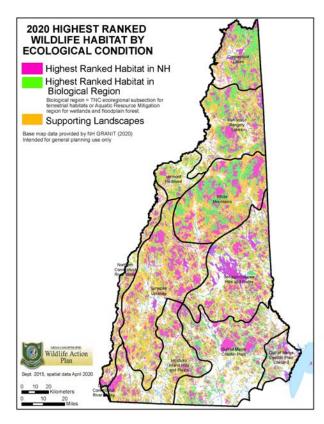
Climate Resilience

The ability of a species, habitat, or ecosystem to adjust to environmental disturbance caused by climate change by evolving, taking advantage of local opportunities, or relocating to more suitable habitat



NH Wildlife Action Plan Maps





Protect wildlife corridors



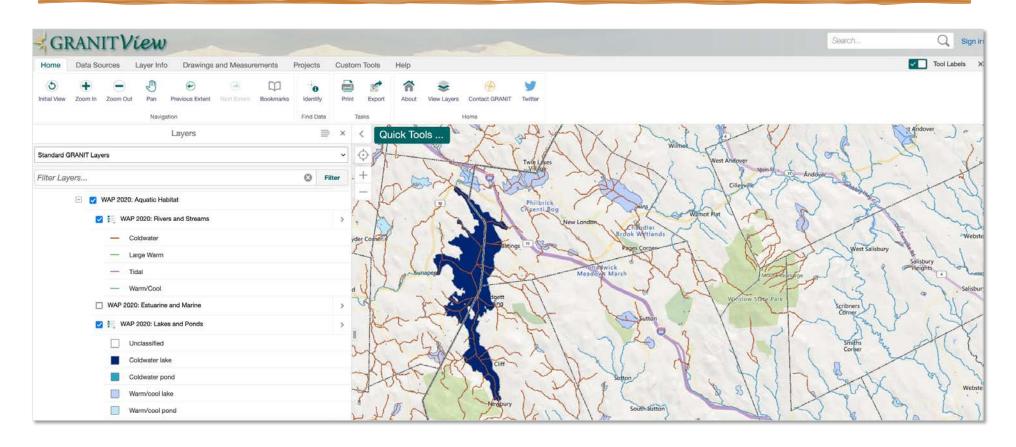
NH Wildlife Corridors Map





Protect and restore riparian buffers

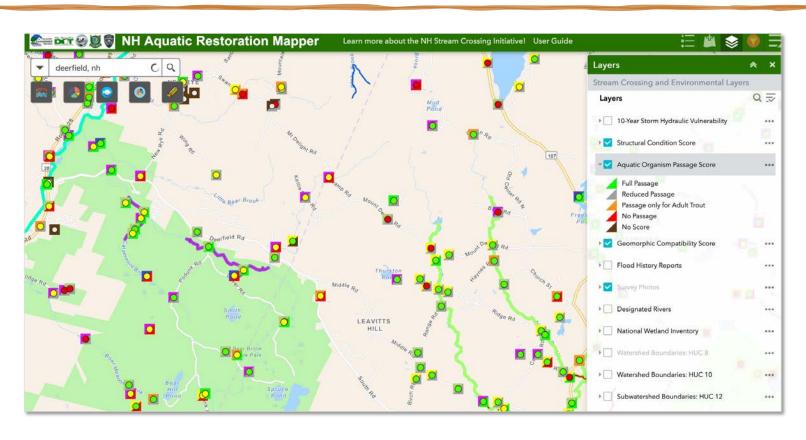
Aquatic habitat & protections





Restore aquatic connectivity

Aquatic Restoration Mapper



Include climate in municipal planning





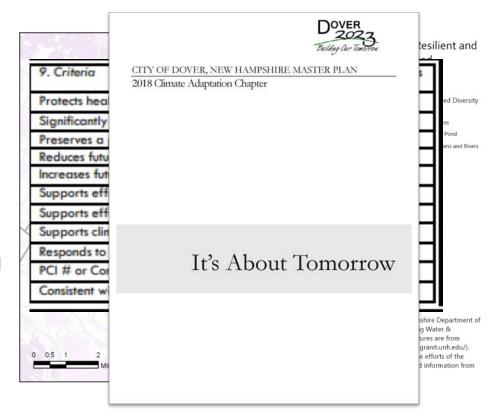






Municipal planning examples

- Barrington added climate-related data to their natural resources inventory
- Several communities have added climate considerations to their criteria for land conservation
- Dover added climate to criteria for capital improvement planning decisions
- More and more communities are adding climate to their master plans

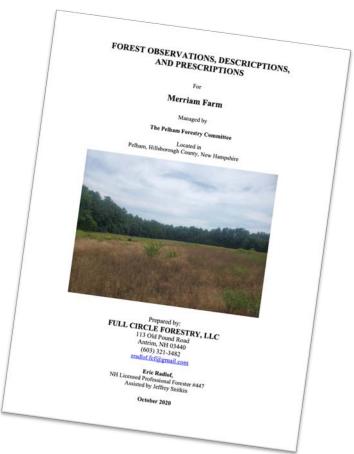


Consider climate in habitat management



Habitat management example

"Tending young, developing stands, or stand components, along with periodic harvests of commercial size trees will produce multi-aged stands over time that... provide increased diversity and complexity while improving resiliency to natural disturbances and climate change."





Outreach example

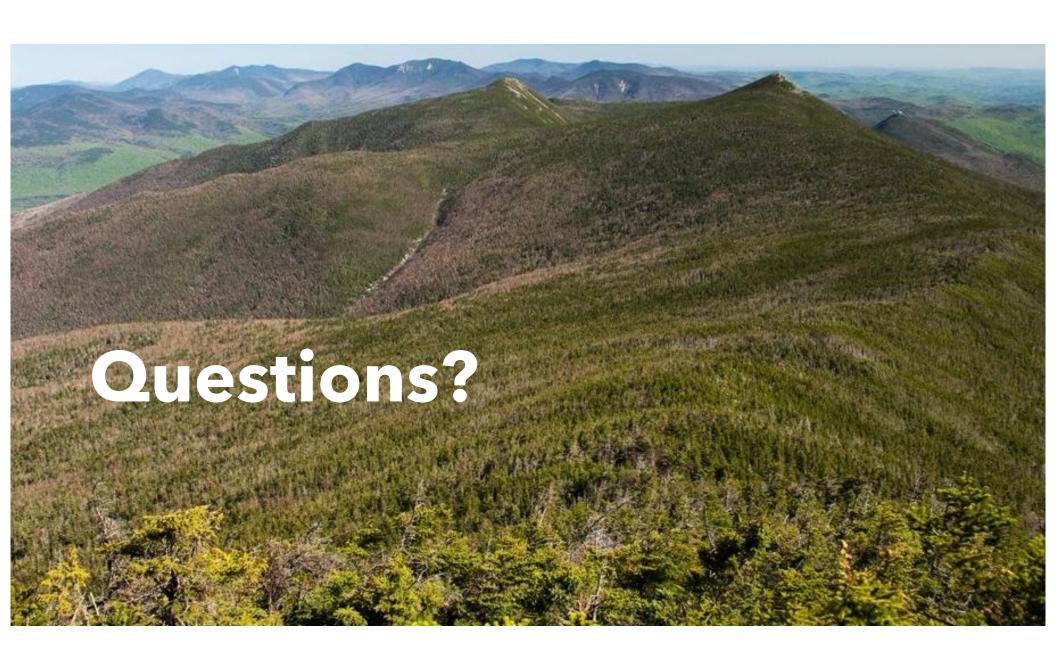
Claremont conservation commission climate outreach series:

- Climate change 101
- Vernal pools citizen science project
- Climate change and birds
- E-bird and Merlin apps
- Pollinators and climate change
- Pollinator garden planting work day (Monarch Waystation)
- River restoration and resilience
- Stormwater management solutions



Resources

www.TakingActionForWildlife.org/resources/climate-change-resources



Discussion

- What do you see as your community's biggest challenge related to climate change?
- Has your town taken any of these actions to incorporate climate in wildlife/habitat protection?
- If not, do any of these actions feel like something you may want to take on?
- What additional resources or assistance would be useful in working on climate change in your community?