





Given uncertainties of climate change, how do we conserve the places that will be important to wildlife into the future?



What will wildlife do as the climate changes?





Resilient Landscape Initiative

Goal: Help ensure that the land we protect today will be important for wildlife tomorrow, given the pace and uncertainty of climate change.

Outcomes:

- ✓ Build the capacity of land trusts and public agencies to respond to climate change.
- ✓ Demonstrate effective land protection
- ✓ Advance the practical application of climate science for land conservation







The Nature Conservancy / Eastern Conservation Science Mark G. Anderson, Melissa Clark, and Arlene Olivero Sheldon



- Does not try to predict how the climate will change.
- Focuses on enduring features of the landscape.
- Complements species-based approaches.







Resilience

- Recover from disturbance
- Maintain ecosystem function
- Remain dynamic and flexible



- Limited capacity to adapt
- Disrupted function, low diversity
- Few options and alternatives

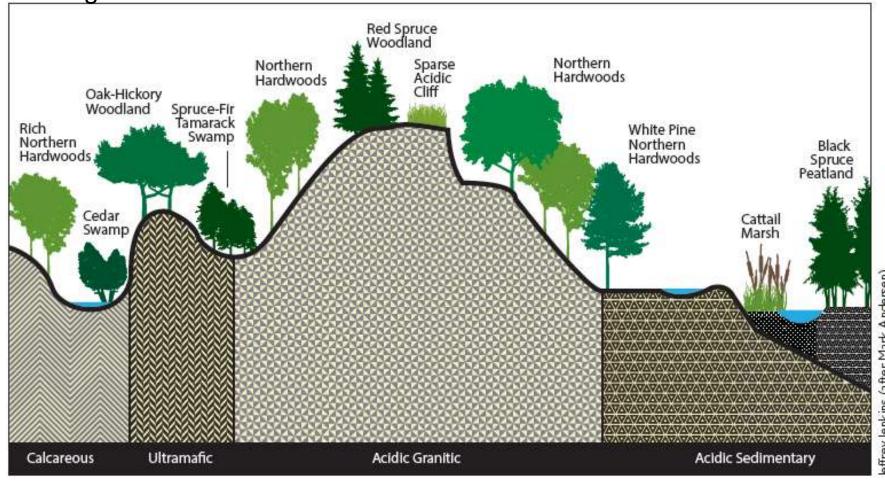
Highly Resilient

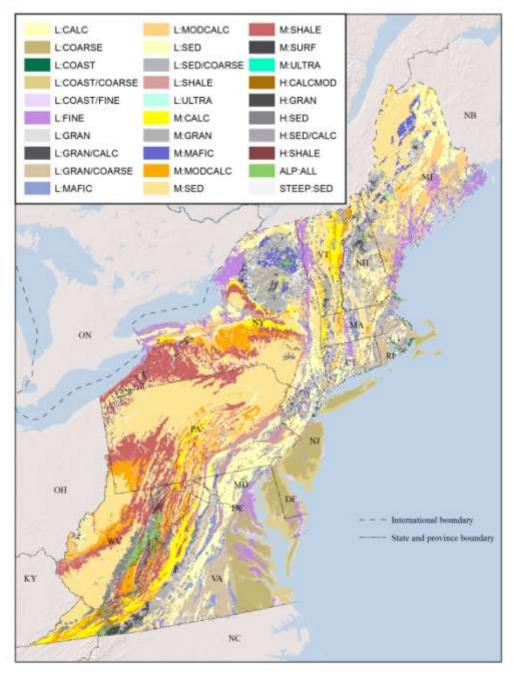
- Large capacity to adapt
- Sustain function and diversity
- Many options and alternatives

Terrestrial Resiliency:

Complex Landforms in a Connected Landscape with a Diversity of

Settings



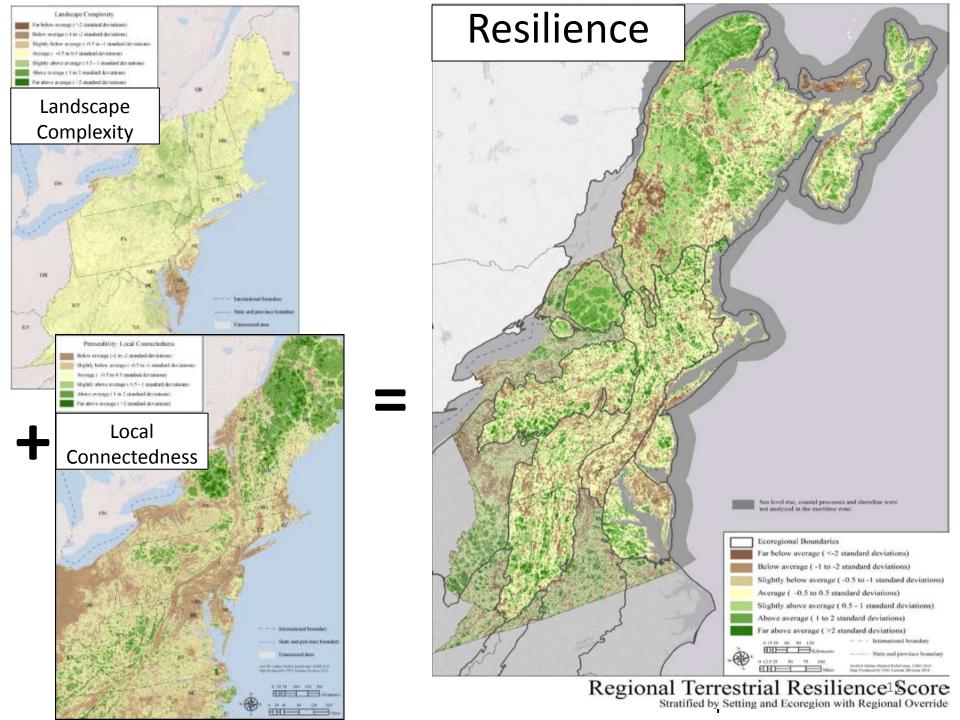


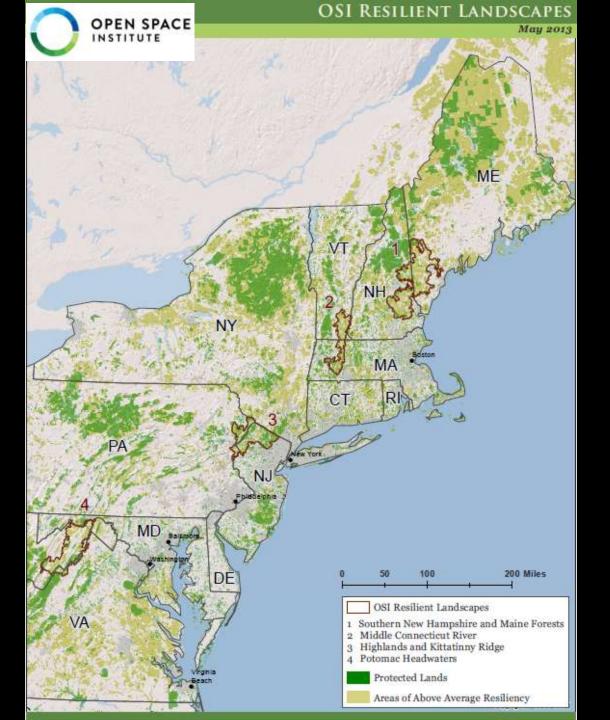
Northeast Geophysical Settin

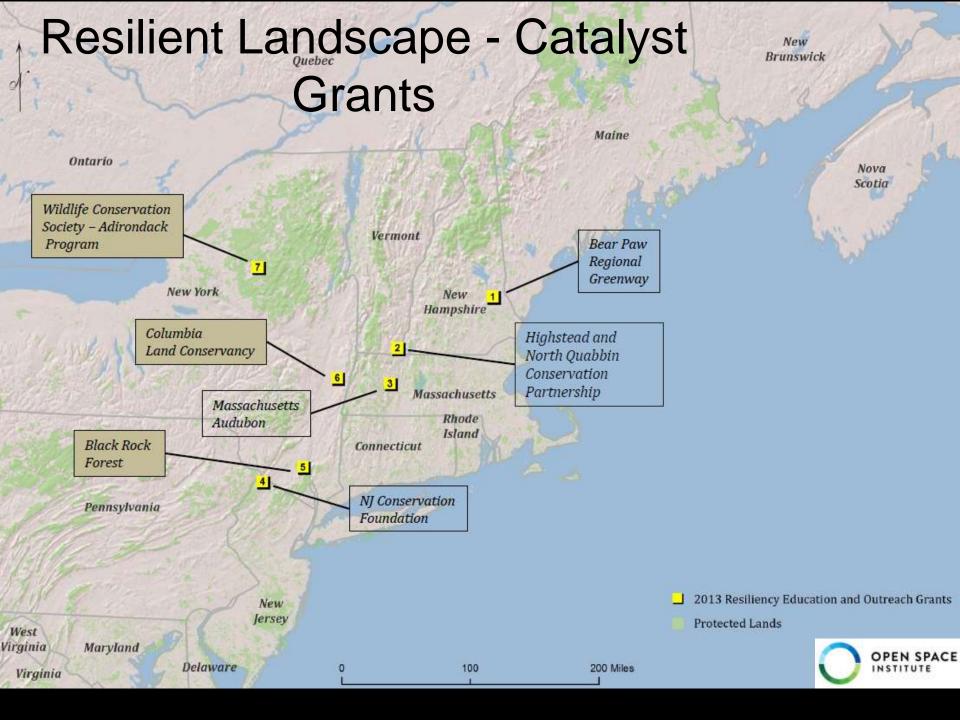
- Geology & Elevation
- 30 categories



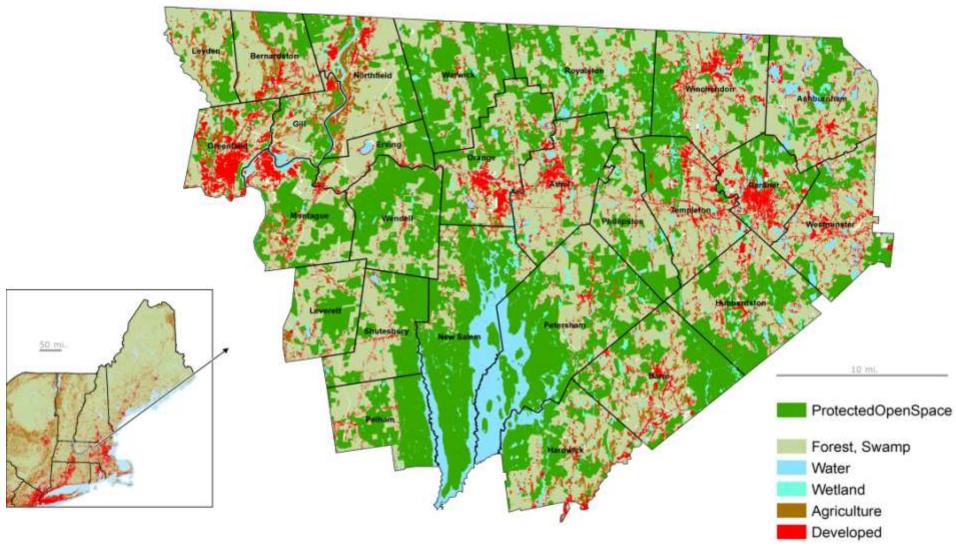


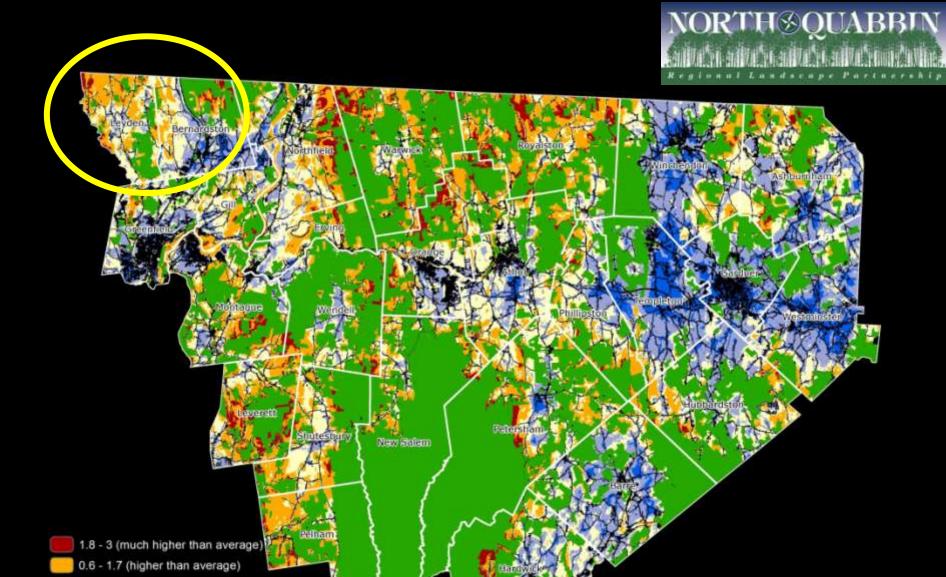










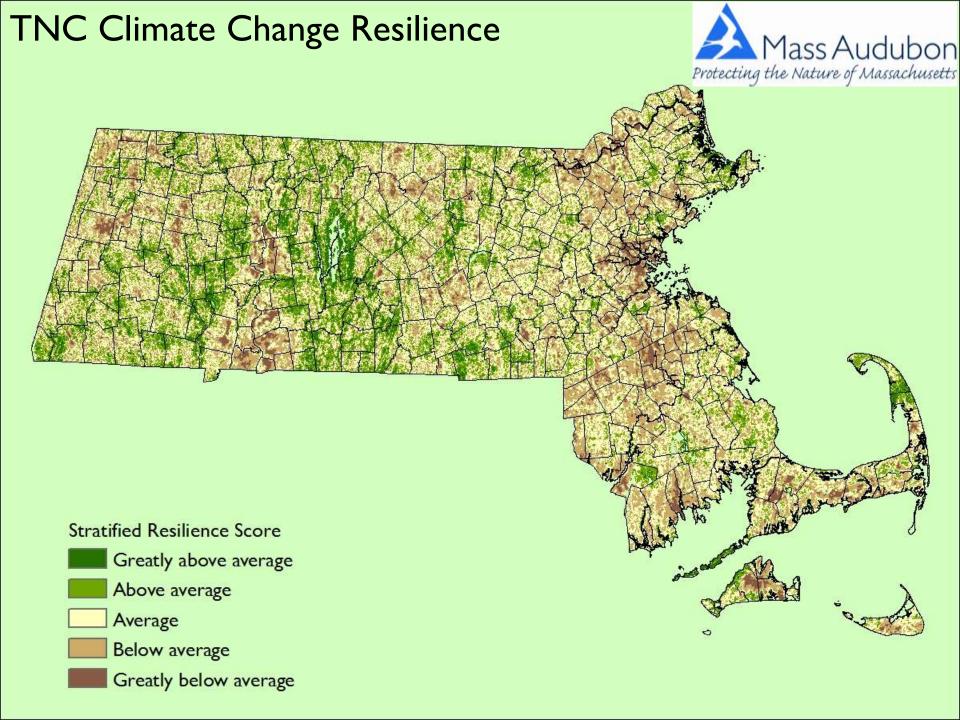


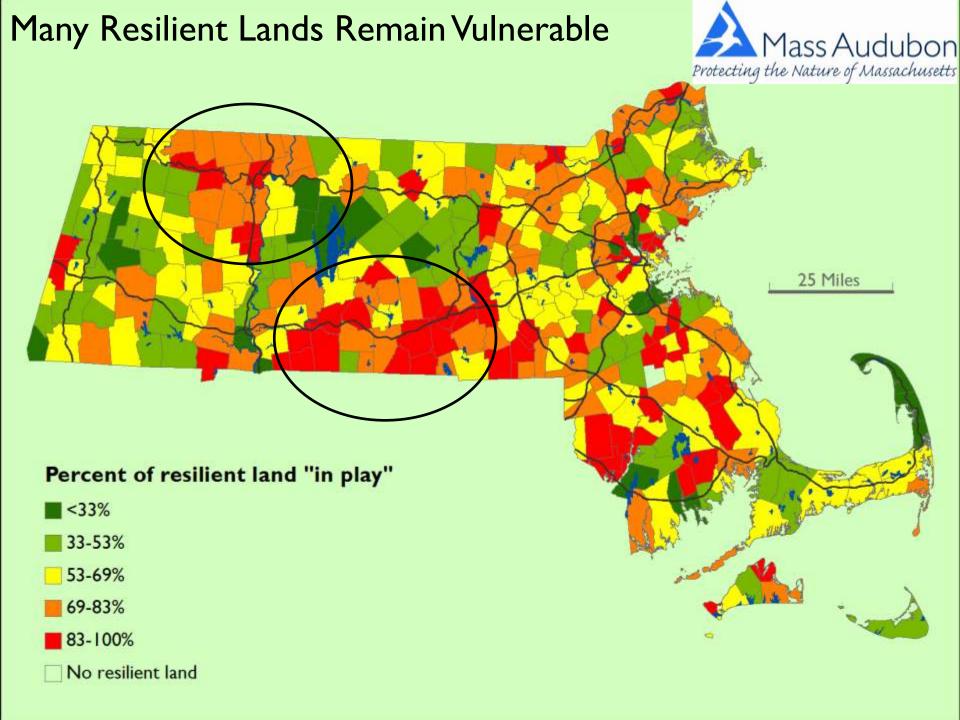
-0.4 - 0.5 (average)

Protected Open Space

-1.5 - -0.5 (lower than average)
-1.6 (much lower than average)



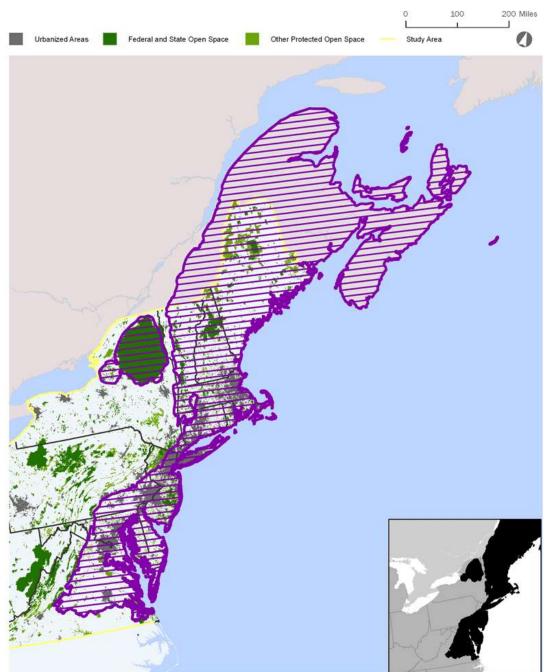






North Atlantic Landscape Conservation Cooperative

- Guidance Documents
- Field Test
- Extend Networks
- Spread the Word





Resilient Landscape Initiative

- Help ensure that the land we protect today will be important for wildife tomorrow, given the pace and uncertainty of climate change.
- Capital Grants in selected Northeastern & Mid-Atlantic landscapes and coming to SE this summer.
- Catalyst Grants NH, ME, NY, MA and VT. Coming to SE & Canada this fall. Hopefully mid-Atlantic soon...
- Guidance Documents & Networks Maritimes through Mid-Atlantic