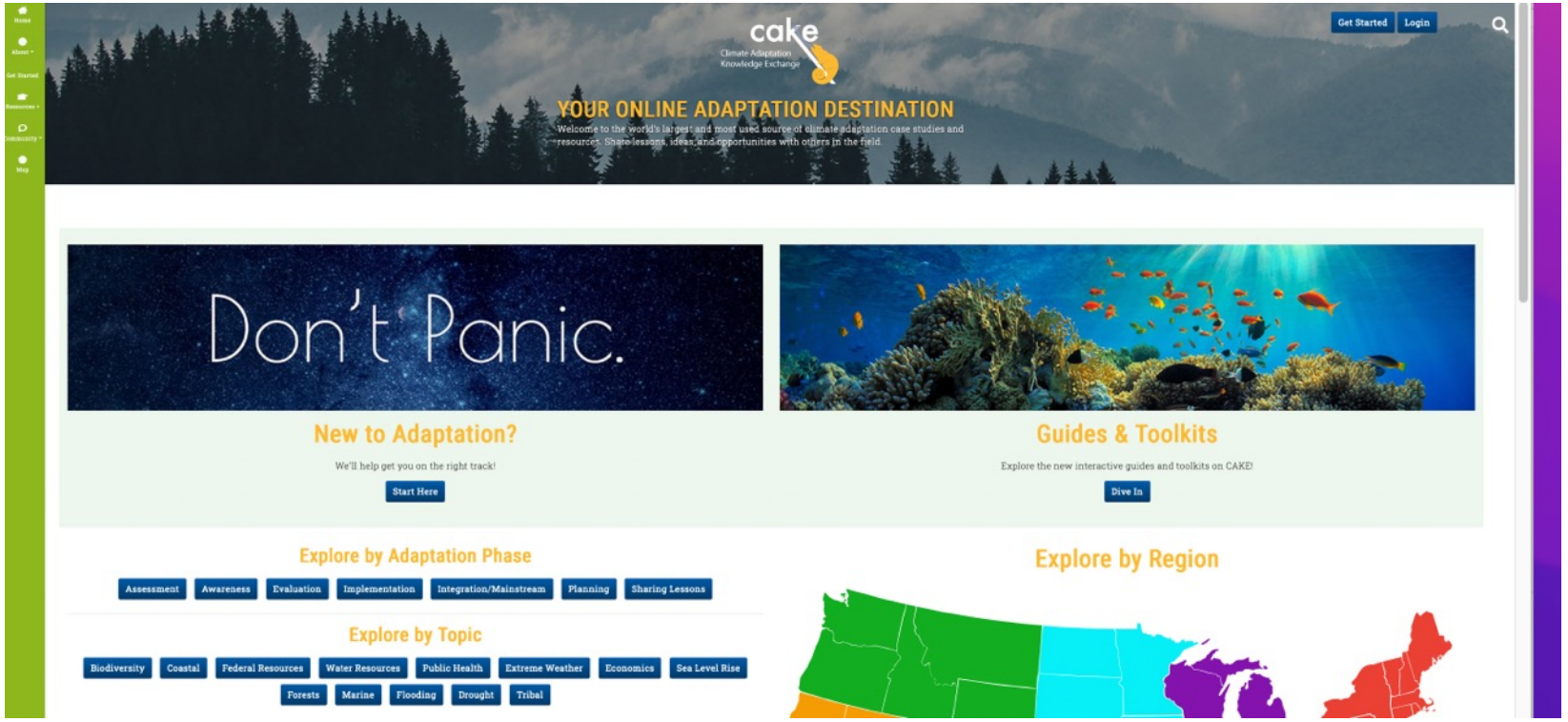
Tools and Resources

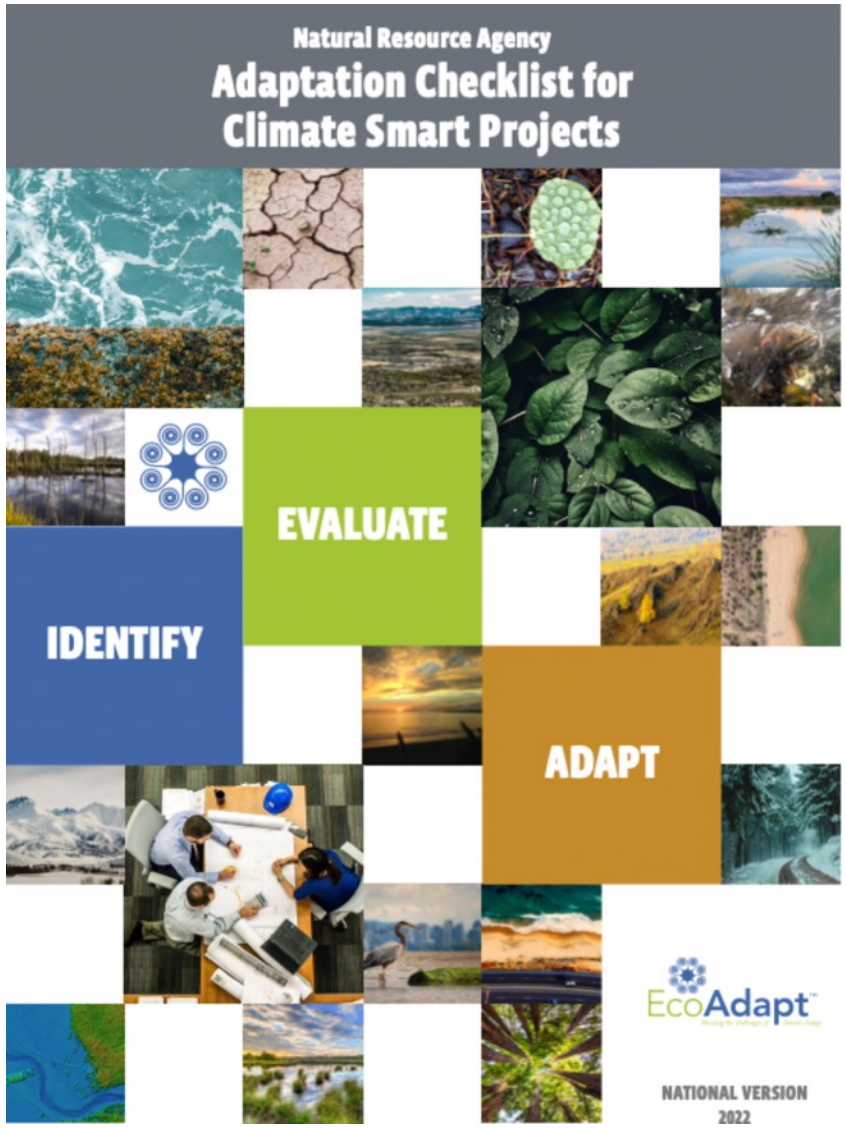
Climate Adaptation Knowledge Exchange

www.cakex.org/



- Database of adaptation-related tools, documents, and case studies
- Searchable by keyword, adaptation phase/type, and geographic region

Tools and Resources

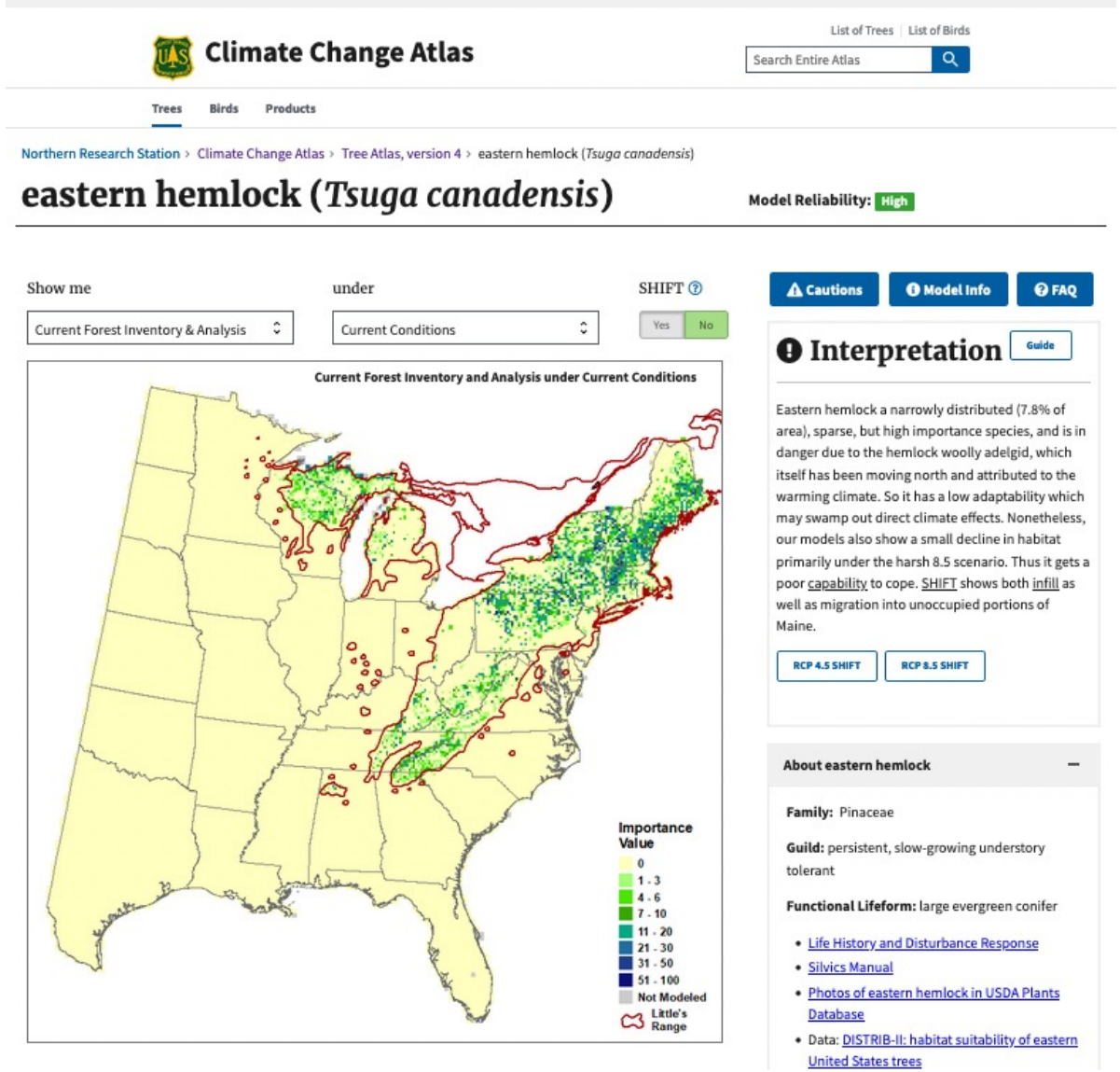


Adaptation Checklist for Climate Smart Projects

- Checklist designed to help natural resource managers evaluate potential climate vulnerabilities of a project or management action before implementation
- Guides users in thinking through design and siting to help projects deliver benefits under future climate conditions
- Webinar also available here

https://sites.google.com/ecoadapt.org/adaptation-checklists/home

Tools and Resources

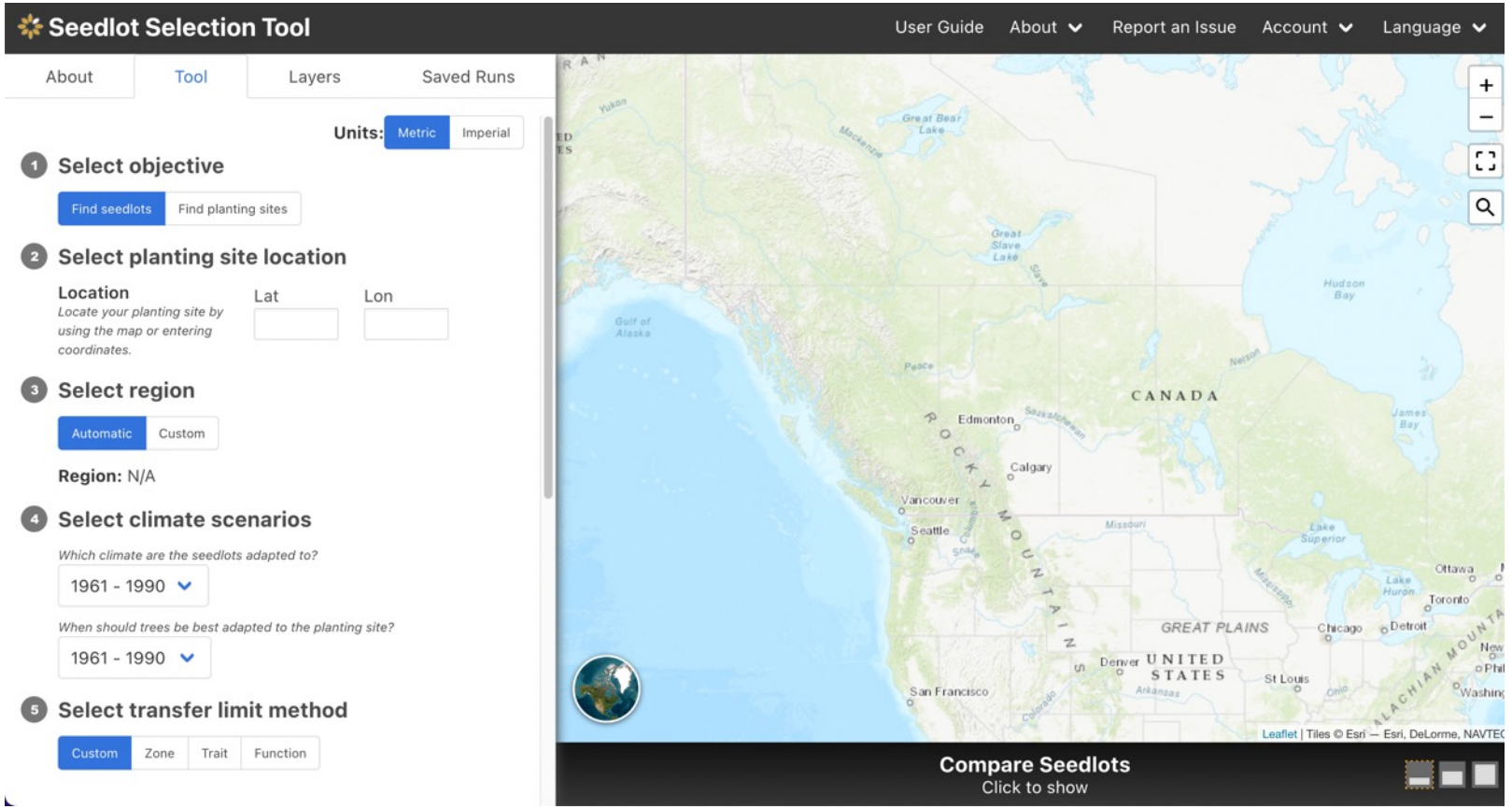


Climate Change Tree Atlas

- Modeled future suitable habitat for 125 tree species in the eastern U.S.
- Includes narrative summary and list of traits that positively or negatively impact species' ability to adapt (e.g., shade tolerance, vulnerability to pests, etc.)
- Website includes guide to interpretation and regional summaries

https://www.fs.usda.gov/nrs/atlas/tree/

Tools and Resources

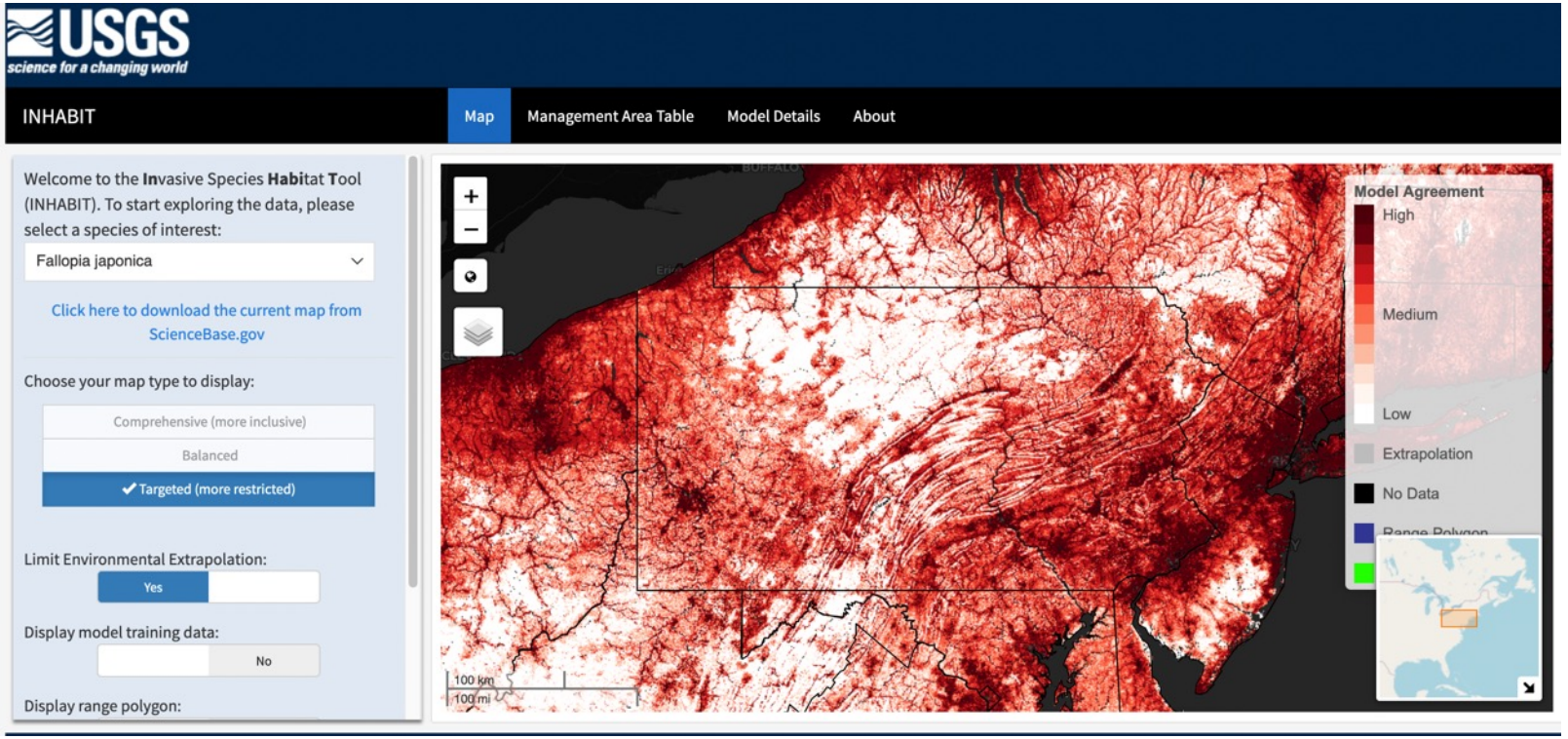


Seedlot Selection Tool

https://seedlotselectiontool.org/sst/

- Designed to help forest managers match seedlots with planting sites based on climatic information
- Can choose based on current or projected future climate conditions
- Highly customizable (with learning curve!)

Tools and Resources

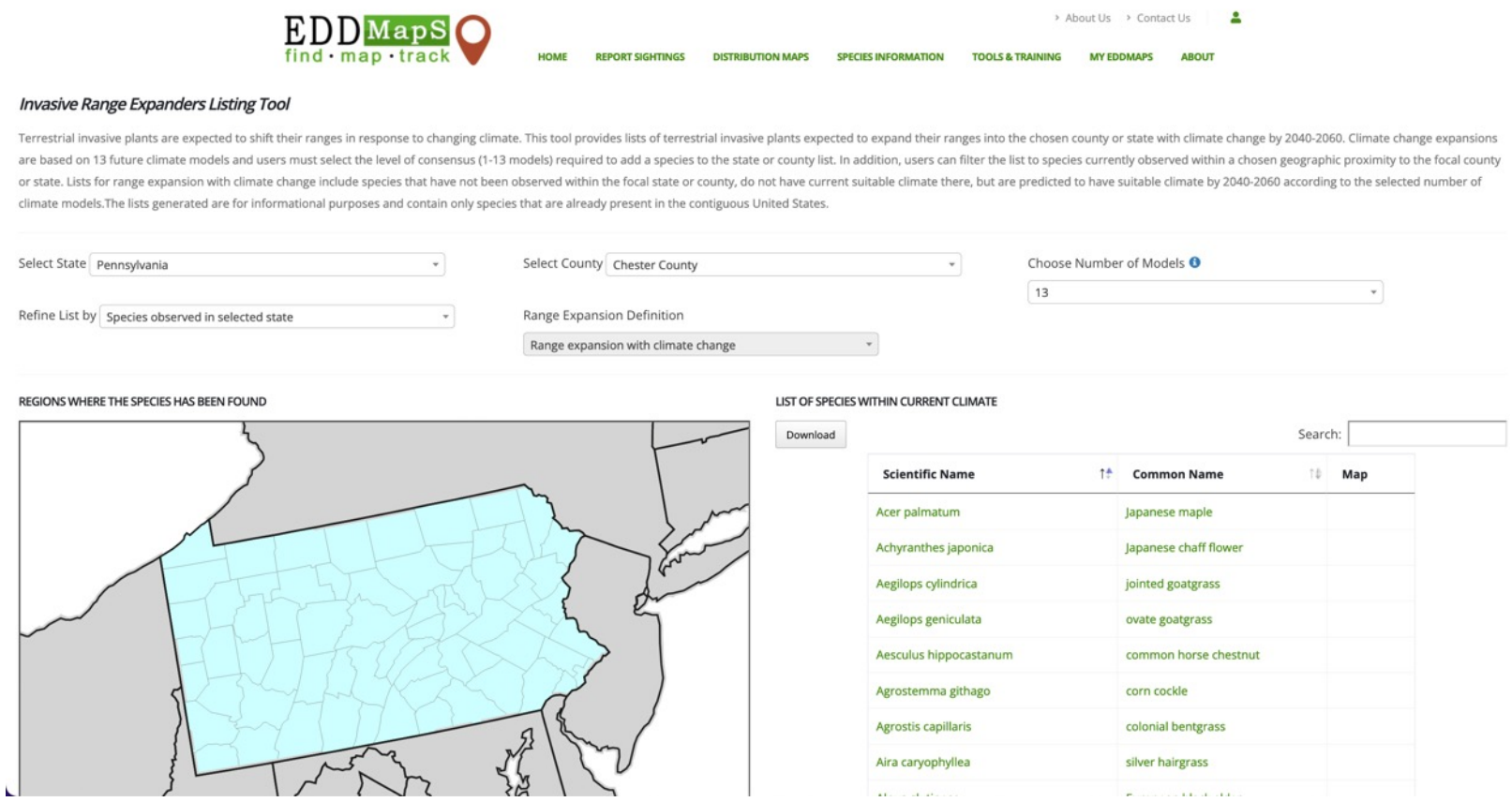


Invasive Species Habitat Tool (INHABIT)

https://gis.usgs.gov/inhabit/

- Uses species distribution models (SDMs) to predict suitable habitat for invasive species already present in the U.S.
- Does not specifically incorporate future climate conditions
- Webinar available here

Tools and Resources

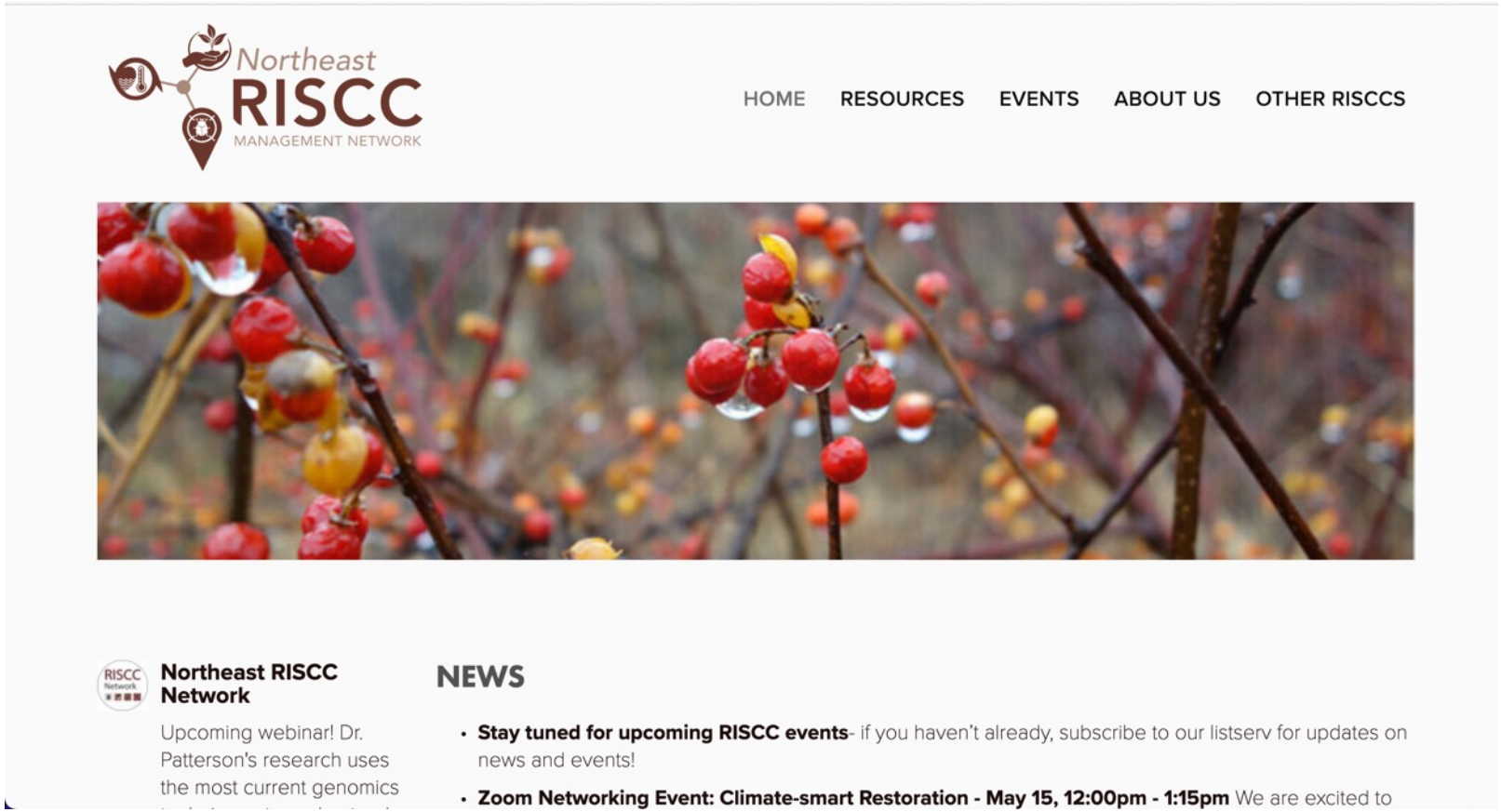


EDDMapS

https://www.eddmaps.org/rangeshiftlisting/

- Provides lists of invasive plants that may be expected to expand their range into a chosen state or county
- Explicitly considers future climate conditions (within the 2040–2060 timeframe)
- Webinar available here

Tools and Resources

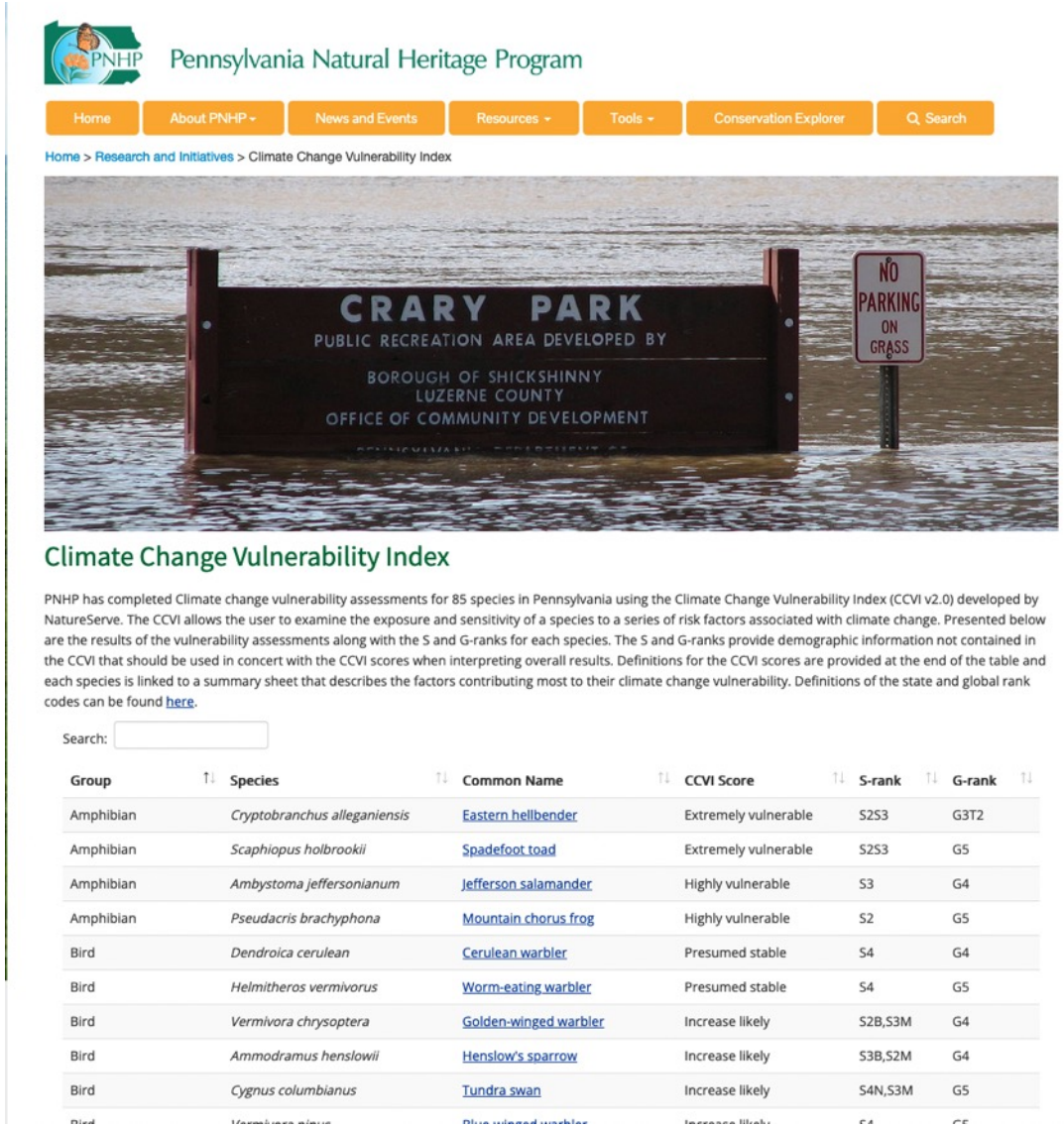


Northeast RISCC Management Network

https://www.risccnetwork.org/northeast

- Network of land managers, conservation practitioners, climate scientists, and others
- Briefs related to management challenges, research summaries, tool summaries, listserv, webinars, and more

Tools and Resources

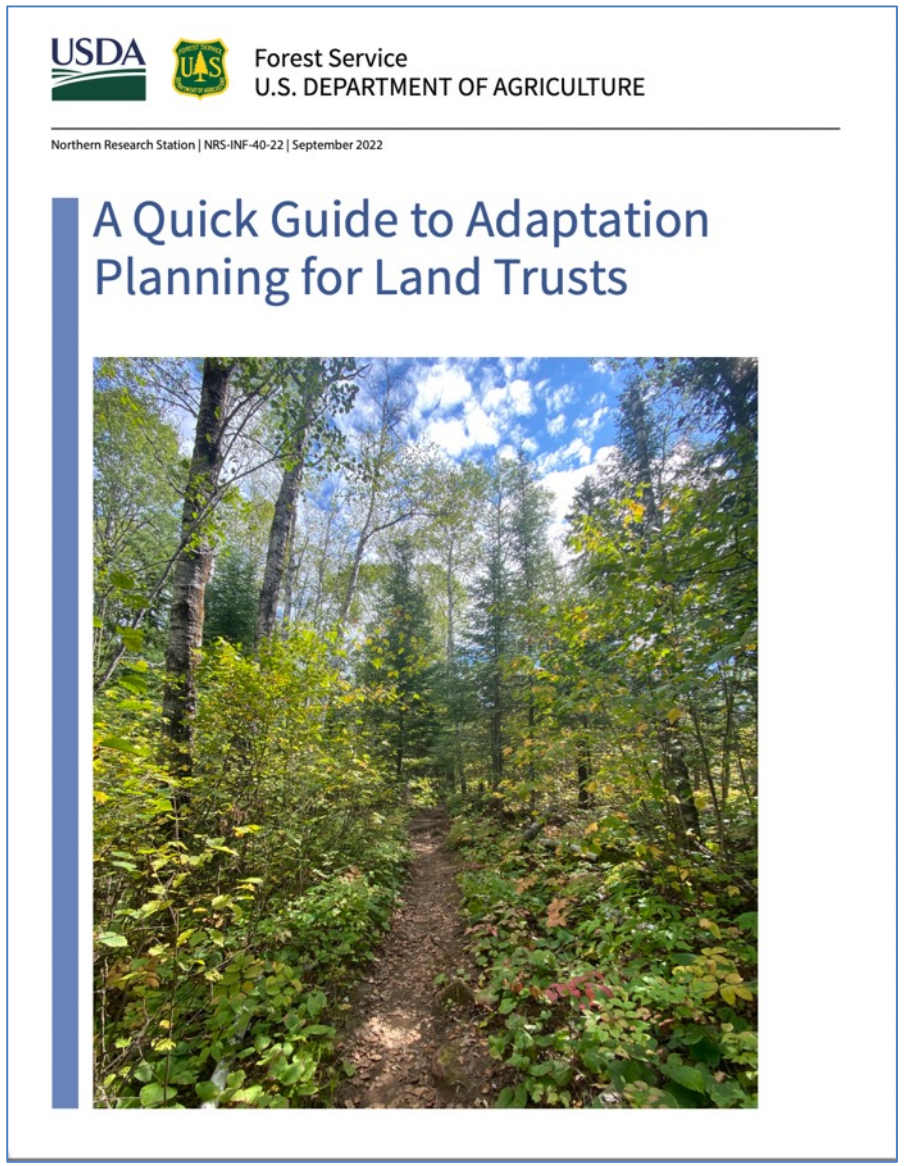


Pennsylvania Natural Heritage Program Climate Change Vulnerability Index (CCVI)

- Brief vulnerability assessments conducted for 85 species, including many plants
- Downloadable summaries for each species includes vulnerability ranking and main factors contributing to that ranking

https://www.naturalheritage.state.pa.us/climate.aspx

Tools and Resources

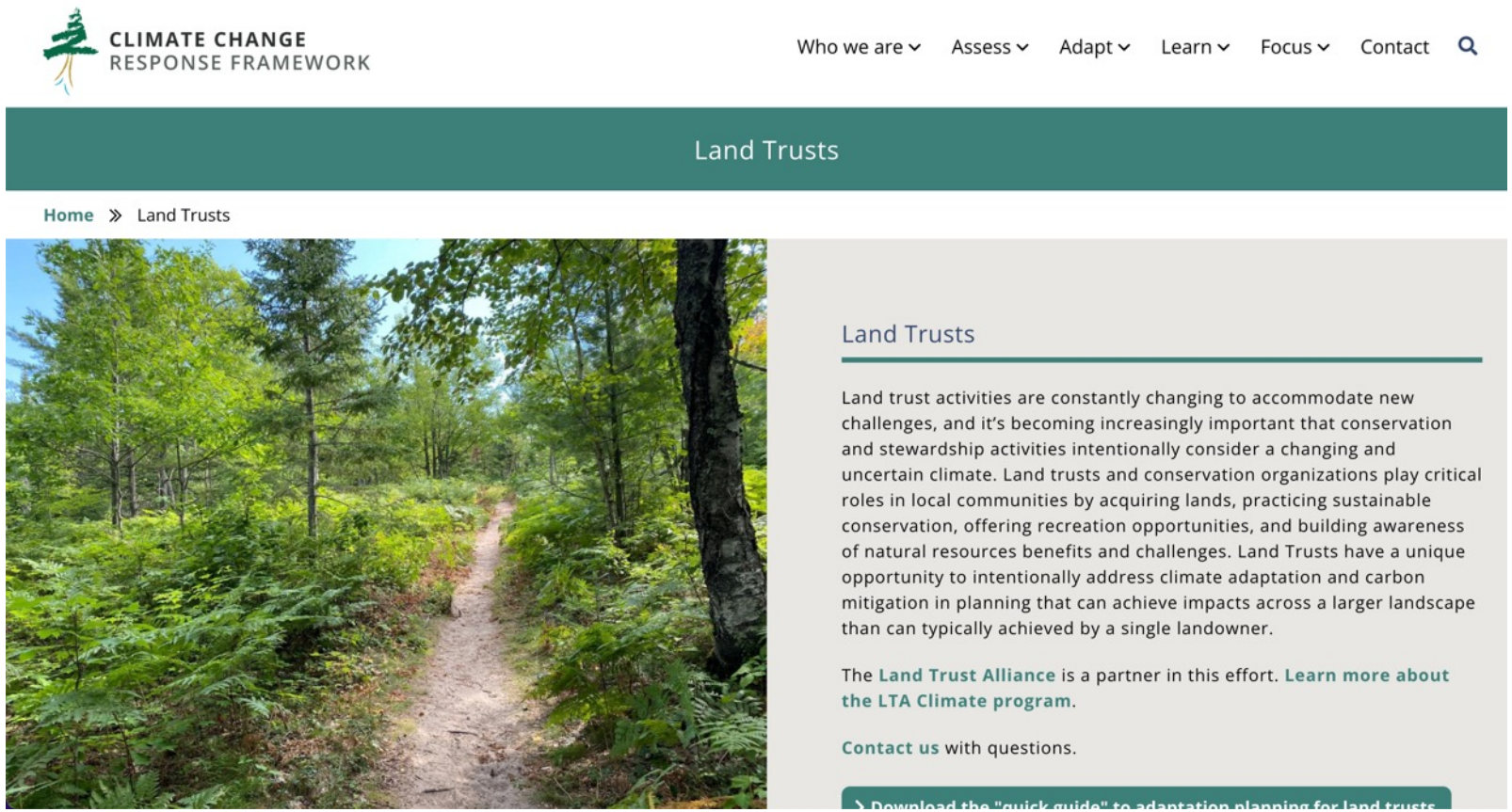


A Quick Guide to Adaptation Planning for Land Trusts

- Collaboration between NIACS and the Land Trust Alliance
- Developed specifically to support land trusts and provide guidance for adaptation planning
- Includes a “Short Version” of the Adaptation Workbook

https://doi.org/10.2737/NRS-INF-40-22

Tools and Resources

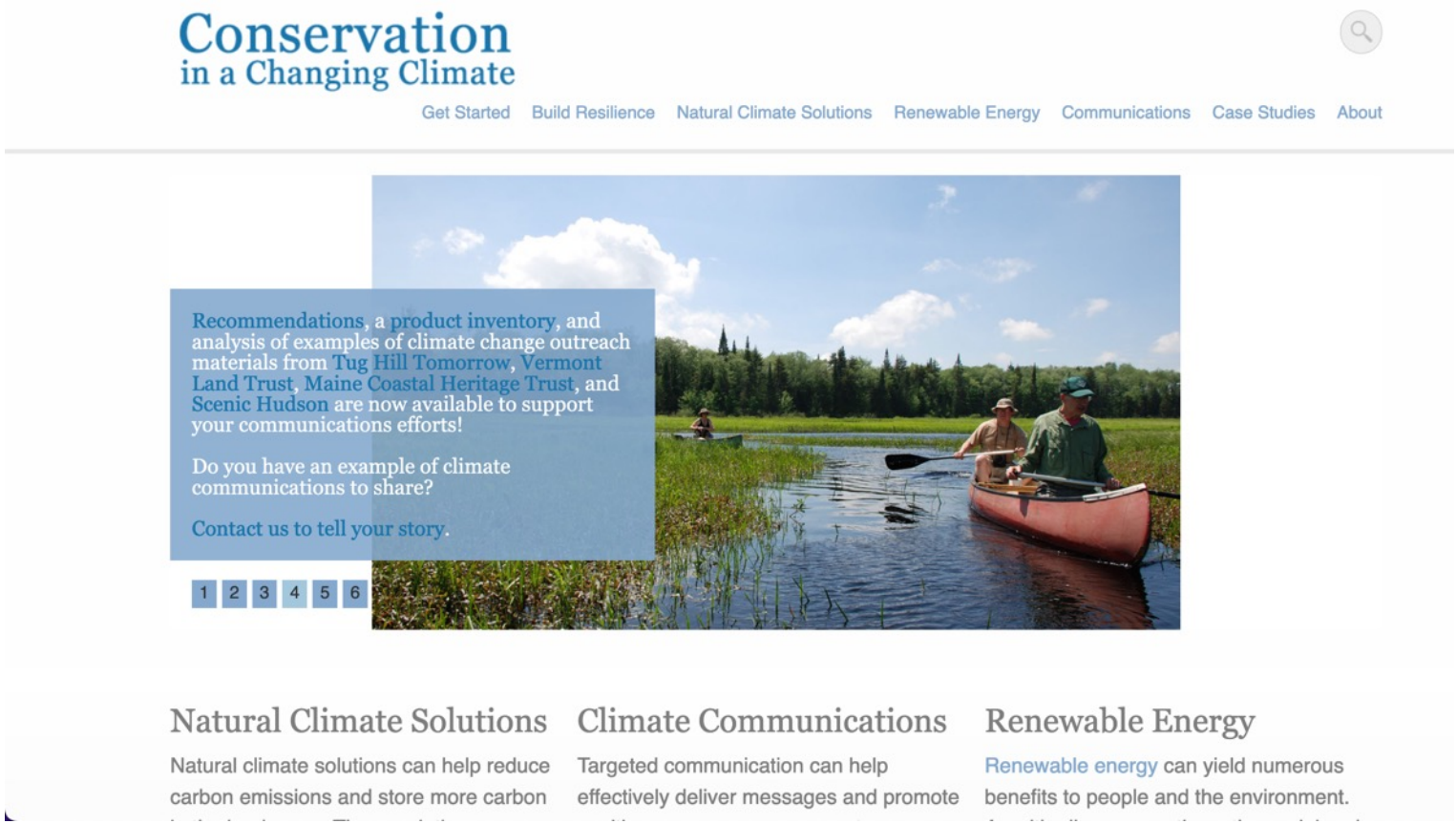


NIACS Land Trusts page

https://forestadaptation.org/land-trusts

- Links to the Quick Guide to Adaptation Planning for Land Trusts
- Regional vulnerability assessments
- Menus of adaptation strategies
- Case study "stories" from land trusts

Tools and Resources

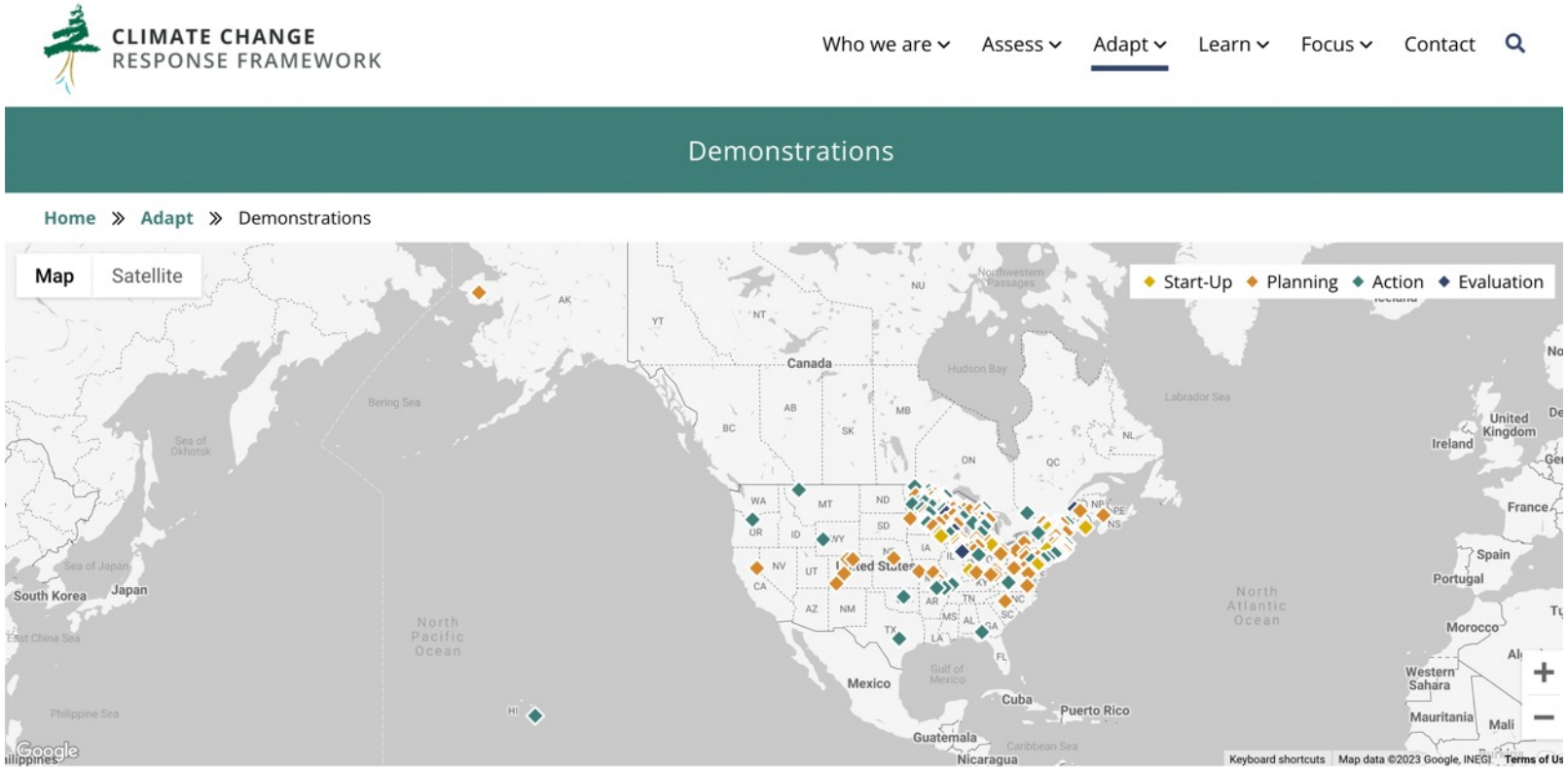


- Technical resource for land trusts, created and maintained by the Land Trust Alliance
- Offers basic to intermediate-level guidance on climate change impacts and response
- Includes case studies and guidance on communication/outreach

Conservation in a Changing Climate

https://climatechange.lta.org/

Tools and Resources

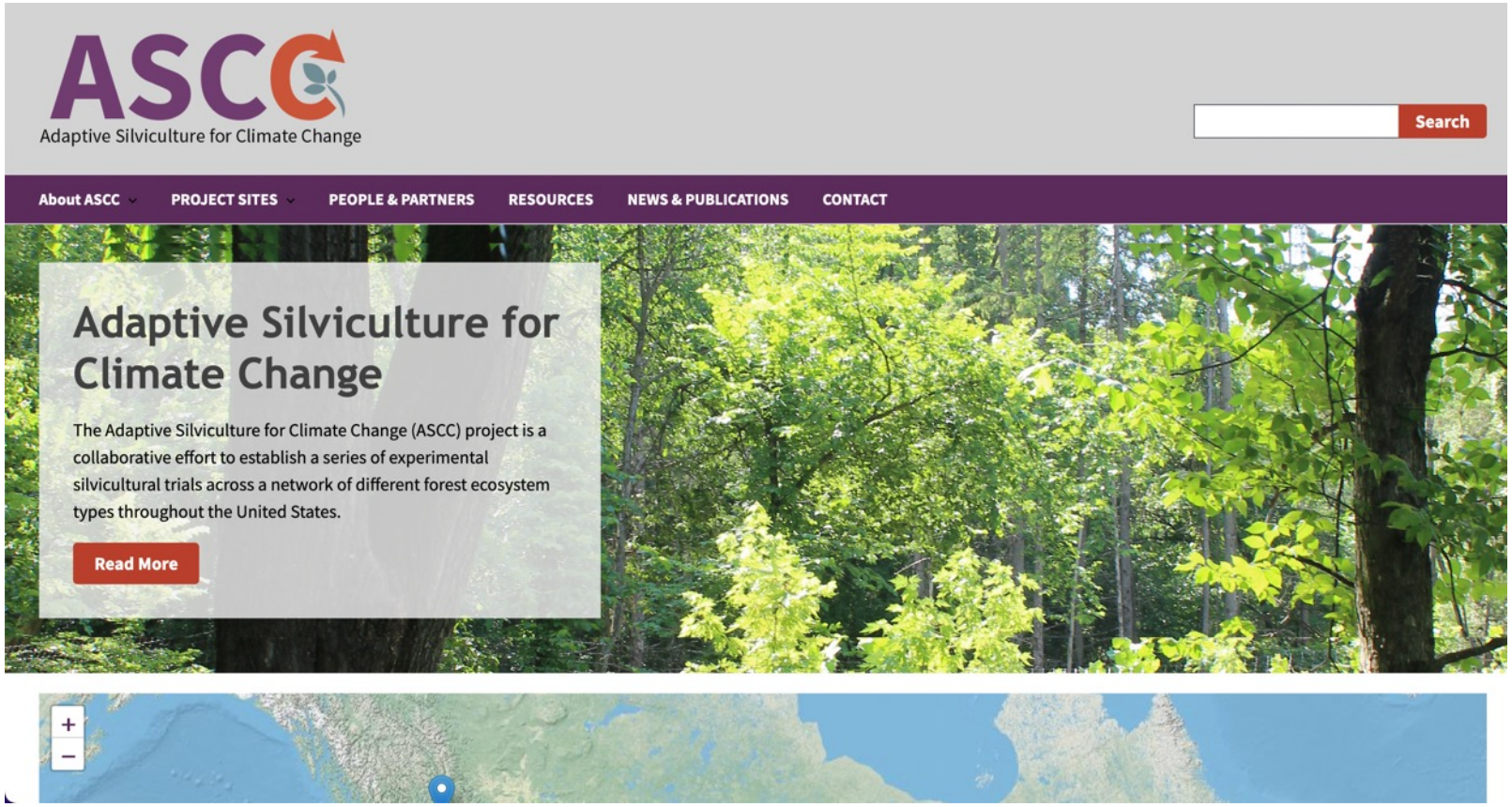


NIACS Climate Change Response Framework Demonstration Projects

https://forestadaptation.org/adapt/demonstration-projects

- Case studies (mostly/exclusively those that have used the NIACS Adaptation Workbook)
- Can filter by state, landowner type, project status, and ecosystem
- Includes Buffam Brook Community Forest case study

Tools and Resources



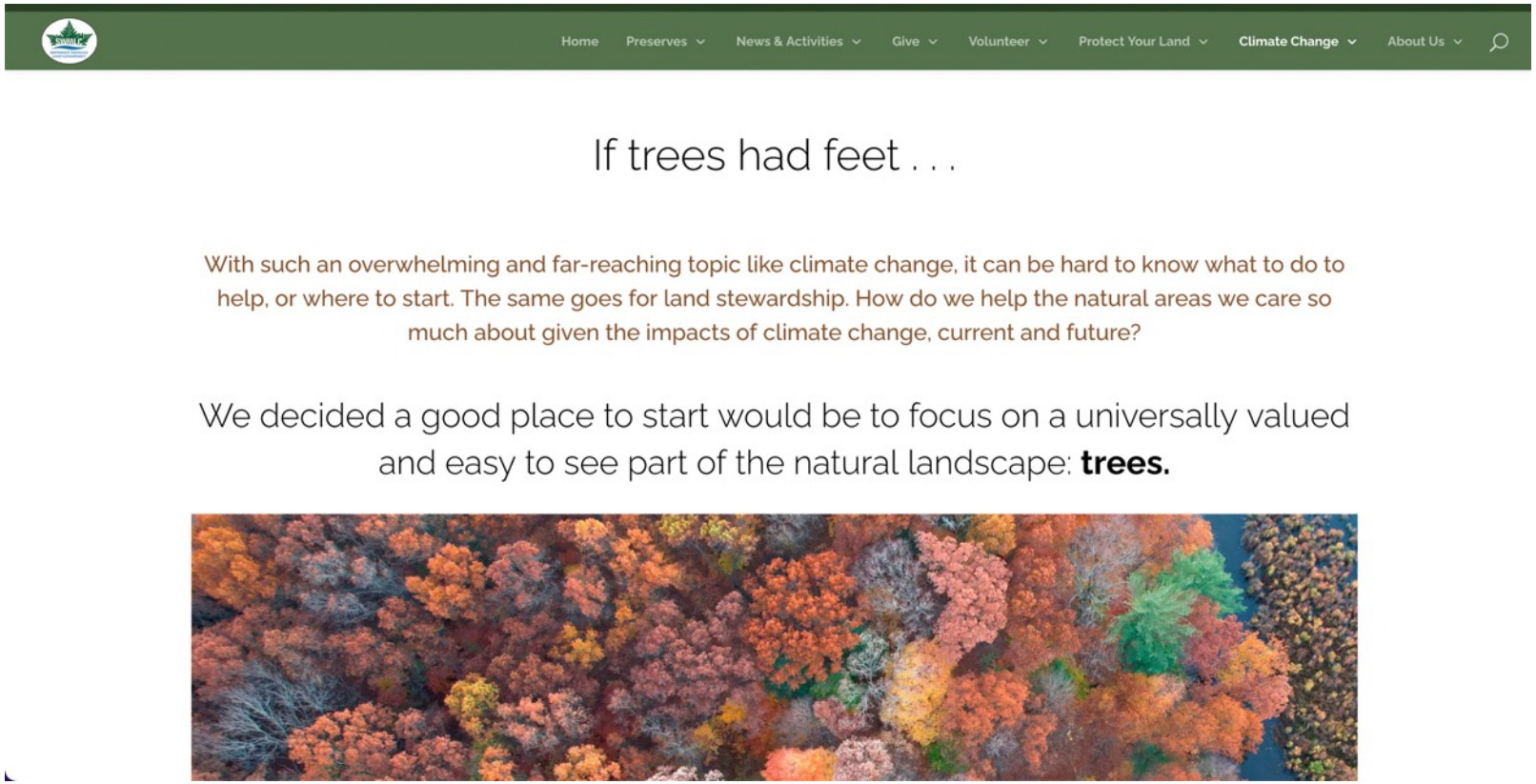
- Case studies
- Collaborative effort to establish experimental silvicultural trials across different forest types in the U.S.

Adaptive Silviculture for Climate Change

https://www.adaptivesilviculture.org/

doing/)

Tools and Resources



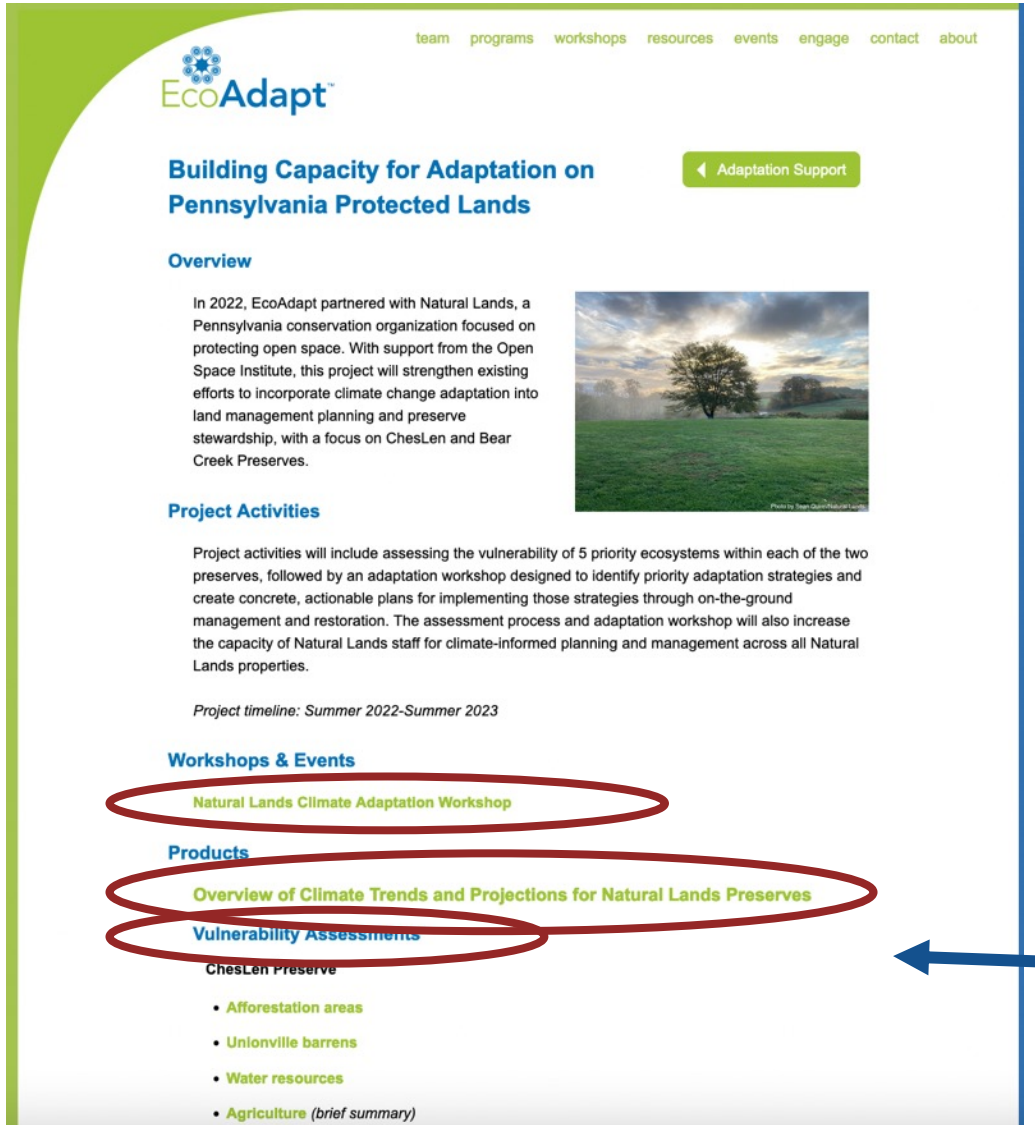
https://swmlc.org/what-were-doing/

- **Case study**
- Collaborative effort among five land trusts to increase climate resilience on Lake Michigan shoreline
- Assisted tree migration utilizing the Climate Change Tree Atlas

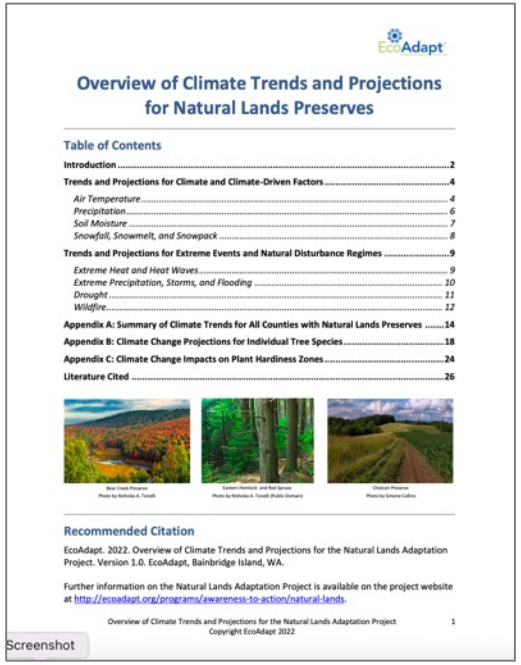
Workshop Summary

- Reviewed climate projections and vulnerability assessment results
- Generated an initial list of adaptation strategies, some with specific action steps
- Developed adaptation implementation plans for four restoration projects
- Learned the process of incorporating climate change information and priority adaptation strategies into preserve planning and management

Products



Summary of climate trends and projections



Vulnerability assessments

Project webpage:

https://ecoadapt.org/goto/Natural-Lands

THANK YOU!

Please complete a quick survey at
https://tinyurl.com/NLWorkshopSurvey

EcoAdapt™
Meeting the challenges of climate change

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