

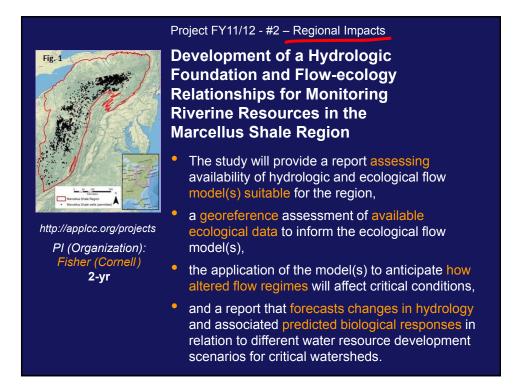
http://applcc.org/projects

PI (Organization): Anderson (TNC) Olivier (ORNL) **2-yr** 

### Project FY11/12 - #1 - Foundational

# A Stream Classification System for the Appalachian Landscape Conservation Cooperative

- This project will develop a hierarchical classification for stream and river systems and a GIS map for aquatic ecosystems within the Appalachian LCC.
- The study will include a report describing the methods used to evaluate and develop the classification system,
- a literature review of existing stream classifications, and
- a GIS stream data set.





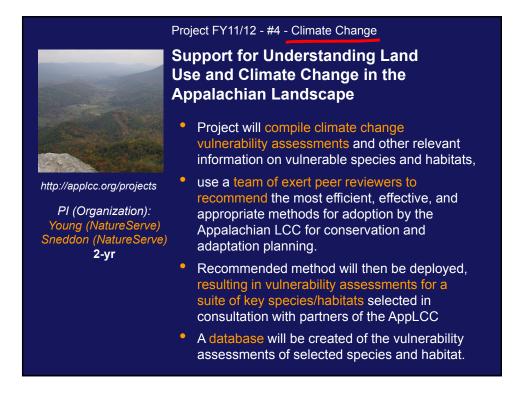
#### http://applcc.org/projects

PI (Organization): Kiesecker (TNC) Dunscomb (TNC) 1-yr

### Project FY11/12 - #3 – Regional Impacts

## Assessing Future Impacts of Energy Extraction in the Appalachian Mountains

- Maps of <u>wind</u>, <u>oil</u> and <u>gas</u>, and <u>coal</u> development potential for the entire study area will be created. These maps and published projections from federal and state land management agencies will be used to model future build-out scenarios.
- Impacts of the build-out scenarios will be measured regarding habitat fragmentation of forest resources with a focus on the effects to biodiversity and water production for human populations.
- The study will also create a probability surface for land disturbance associated with large area surface coal mining and create a public webbased map server.





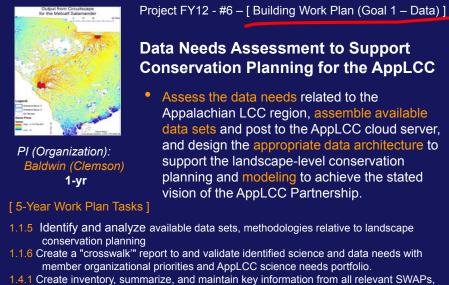
http://applcc.org/projects

PI (Organization): Nislow (USFS) Hudy (USGS) 1-yr

### Project FY11/12 - #5 – Decision Support Tool

# Web-Based Tool for Riparian Restoration Prioritization to Promote Climate Change Resilience in Eastern US Streams

- This project will develop and implement a userfriendly web-based tool to identify priority areas for riparian restoration in the context of predicted climate change at the appropriate scale needed by practitioners.
- First, a 'shovel ready' prioritization tool for managers facing immediate on-the-ground decisions will be developed.
- The project will then link directly to ongoing and future stream flow, temperature, and biological response modeling projects and decision support tools.
- A peer-reviewed journal article, detailing this project will be published.



- A.1 Create inventory, summarize, and maintain key information from all relevant SWAPs, AppLCC Regional initiatives, resource management plans, and partnership efforts
- 1.7.1 Assemble common set of spatially explicit data layers based on LCC-consistent standards and definitions
- 2.8.1 Consult with end-users/resource managers to determine what predictive tools are needed to support their work

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