SALCC-PFLCC Meeting
Spring 2016

Dr. Jessica Graham
Planning

- Science priorities
- Species
- Habitats

Identification

- Projects
  - Research
  - Restoration
  - Partners
  - Funding

Implementation

- Where?
- How much?
- When?
- Who?
- How?
Native Fish Conservation Areas

Conservation Opportunities

Advisory Council
**Project: Streambank Restoration**

**Lead agency:** Hill Country River alliance  
**Cost:** $250,000  
**Benefits:** 5 acres riparian habitat restored, 200’ shoreline stabilized  
**Target species:** Guadalupe bass

**Project: Fish passage**

**Lead agency:** None  
**Cost:** ~500,000  
**Benefits:** Opens 20 miles stream  
**Target species:** Blue sucker
**Mission**: SARP will, with partners, protect, conserve, and restore aquatic resources including habitats throughout the Southeast for the continuing benefit, use and enjoyment of the American people.
Connectivity Program
**Halls Lake Dam, Coastal NC**

- Diadromous Tier 1
- SEACAP
- Upstream Miles: 12
- Downstream dams: 0
- American Eel occurrence
  - Condition: Poor

**Mill dam, Western NC**

- Resident Tier one
- RCD is meeting with landowner
- Seven occurrences include Kanawha Darter
- 18 miles upstream
Connectivity Teams
FL Connectivity

- Degree of Aquatic Connectivity
- Prioritized list of action
- Connectivity SWAT team/s
- *(Optimization)*
Part III. Visualizing Riparian Disturbance at Multiple Spatial Scales

Map C. Percent Ag+Urb Riparian Land Cover of all assessed stream and river segments.
Coming Together for Conservation: New Approach, More Partners

1. Regional Conservation Partnership Program
   - A new program that mobilizes partnerships to multiply investments and reach common conservation goals.

2. More Partners
   - Bring innovation, new ideas, resources, and local expertise to solve problems.

3. RCPP Funding Options
   - 40% National (multi-state projects)
   - 25% State (state projects)
   - 35% Critical Conservation Areas (areas designated by Secretary)

4. USDA plans to invest up to $1.2 billion
   - USDA Goal: Partners match investment to equal — $2.4 billion for conservation through 2018
   - More: nr.cs.usda.gov/FarmBill
Connectivity, Riparian, Flow, Native Black Bass Initiative, Coastal, Physical Habitat
Flow

Research Agenda

- Long term goals
  - Promote Instream Flow Research
  - Disseminate Information
  - Facilitate Communication
  - Promote Instream Flow Regime Standards
Native Black Bass Initiative

- Redeye Bass
- Guadalupe Bass
- Shoal Bass
Threats Assessment
Management Plan
Connectivity, Riparian, Flow, Native Black Bass Initiative, Coastal, Physical Habitat.
Physical Habitat

- mining & resource extraction
- agriculture
- forestry & silviculture
- urbanization
- industry

- stormwater runoff
- point effluent discharges
- channel alteration

- Δ discharge patterns
- Δ water velocity & depth

- ↑ barriers to movement

- Δ geomorphological units

- ↑ runs, ↓ pools, ↓ riffles

- ↓ riparian habitat

- ↑ bedload & deposited sediment

- ↓ bank habitat
- ↓ large woody debris
- ↓ cover

- ↓ physical habitat availability
- ↓ physical habitat quality

- ↓ condition
- Δ behavior

- ↑ mortality
- ↓ reproductive success

- Δ ecosystem processes
- Δ population & community structure

Physical Habitat:
- wetland pool
- salt flat
- salt marsh
- mangrove zone
- intertidal mudflat
- subtidal zone
## Aquatic Integration

<table>
<thead>
<tr>
<th>Riparian</th>
<th>Flow</th>
<th>Connectivity</th>
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<tbody>
<tr>
<td>SARP</td>
<td>SARP Riparian Buffer Assessment (30 m-High res)</td>
<td>SARP Risk of flow alteration from impervious surface and SARP Risk of flow alteration from artificial waterbodies. SARP RFA from consumption (TX and OK)</td>
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<tr>
<td>SAF LCC</td>
<td>Riparian Buffers (SARP Assessment)</td>
<td>Under development (Permeable surface, riparian buffers, and connectivity used as proxies)</td>
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<tr>
<td>PF LCC</td>
<td>In development</td>
<td>In development</td>
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<tr>
<td>GCPO LCC</td>
<td>SARP Riparian and 2011 update</td>
<td>Surrogates are artificial waterbodies and % ag used for MLG streams</td>
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<td>APP LCC</td>
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<td>In development</td>
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<tr>
<td>GCP LCC</td>
<td>Floodplain, Swamps, and Riparian identified as one of 17 broadly defined habitats</td>
<td>SARP Instream Flow project (2014)</td>
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<td>GP LCC</td>
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<tr>
<td>Caribbean LCC</td>
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In development
This map outlines the 15 states that make up the Southeastern Association of Fish and Wildlife Agencies and within that the six Landscape Conservation Cooperatives that are developing the Southeastern Conservation Adaptation Strategy (SECAS). These LCCs and the partners that have built them, cover all or part of every SEAFWA state, and SEAFWA’s directors asked them to work with the states and other partners who serve on those LCCs to develop this strategy. For more information, visit SECASSoutheast.org.