



Contributions of Southeast GAP to the National Land Cover Dataset 2001

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Contribution of Southeast GAP to the National Land Cover Dataset 2001

- GAP and SEGAP
- NLCD
- SEGAP + NLCD
- Future work



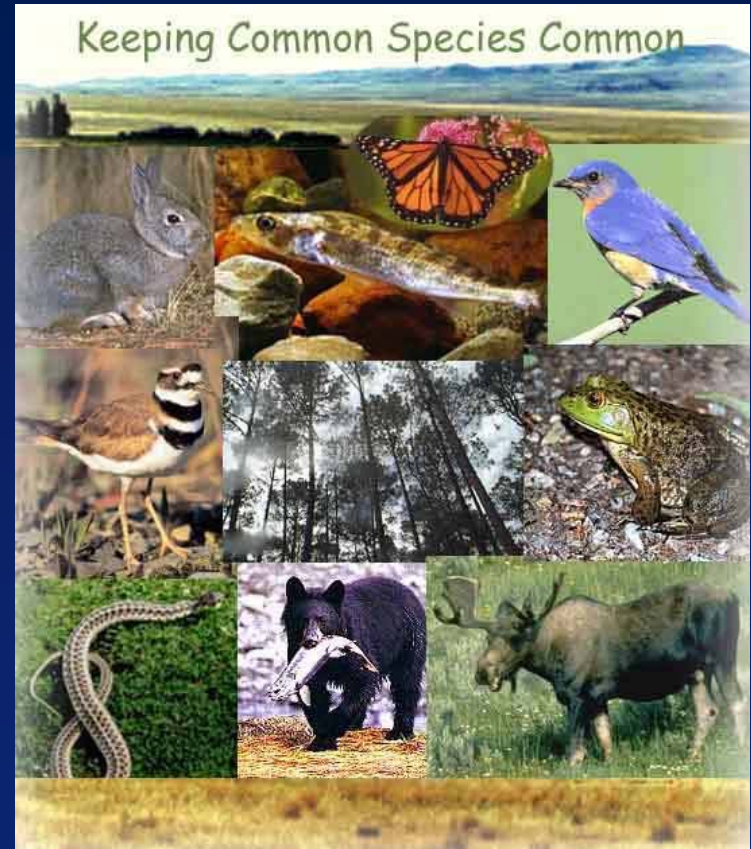
GAP

It's more than just a recursive acronym!



GAP Analysis Program

“To provide data and analyses to keep common species common through proactive management.”



<http://gapanalysis.nbii.gov/>

Gap Analysis Project

- What's a “gap”?

- What's a *conservation* gap?

- How do we “fill” a gap?





Sage Grouse Gap Analysis

Centrocercus urophasianus



Land Cover

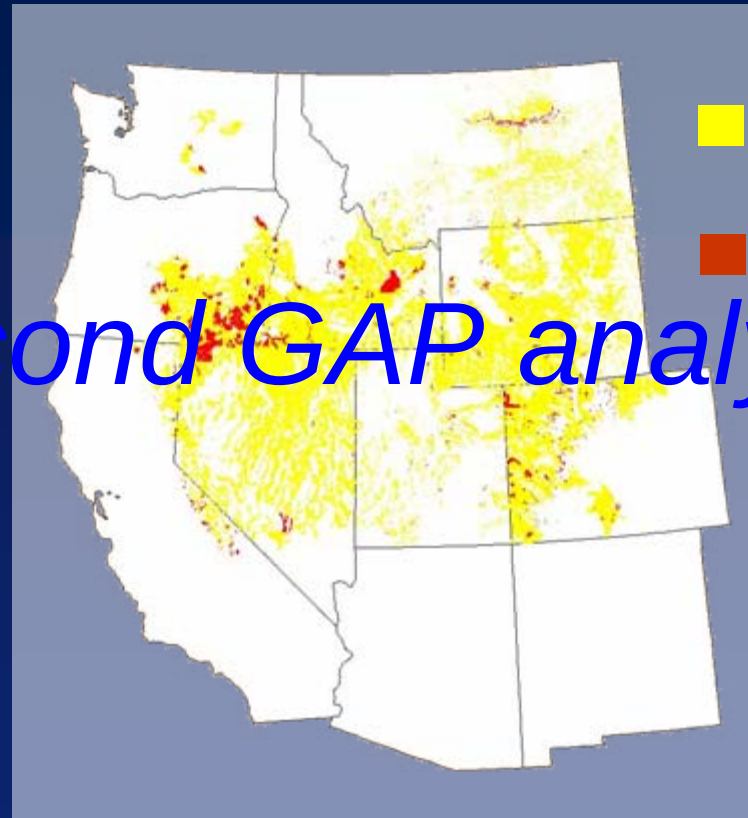


Species
Distributions



Conservation
Lands

90 second GAP analysis



Sage Grouse
Distribution



Conservation
Lands



*Protection is currently <6% of its
western range.*

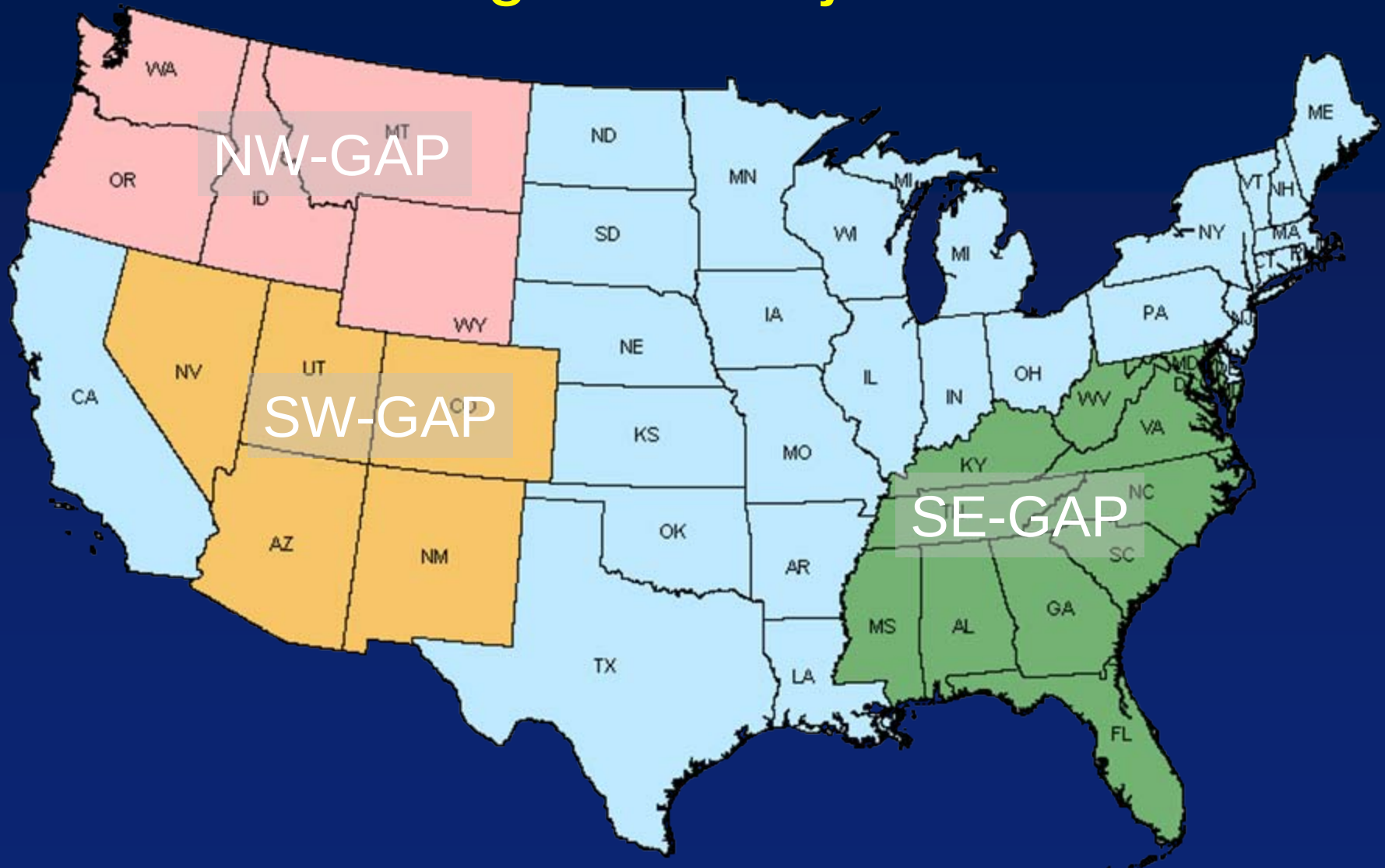


The Southeast Gap Analysis Project

From State to Regional projects



Gap Analysis Program Regional Projects





SEGAP Cooperators

- Biodiversity and Spatial Information Center (BaSIC)
 - *NC State University, Raleigh, NC*
- Natural Resources and Spatial Analysis Laboratory (NARSAL)
 - *University of Georgia, Athens, GA*
- Alabama Gap Analysis Project (AL-GAP)
 - *Auburn University, Auburn, AL*





SEGAP Goals

- Create consistent and current land cover products for the Southeast
- Create consistent presence/absence models for 600+ native terrestrial vertebrate species
- Facilitate the incorporation of SEGAP data into current and future conservation planning efforts
 - North American Bird Conservation Initiative
 - USFWS Refuges, Ecological Services, and CCP Planning Process
 - State Comprehensive Wildlife Conservation Plans



The National Land Cover Dataset



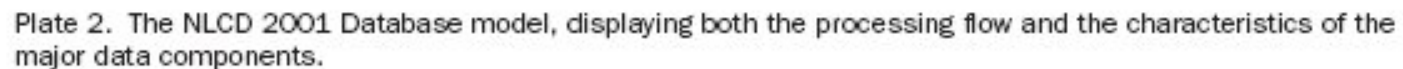
National Land Cover Dataset

- NLCD efforts sponsored by the Multi-Resolution Land Characteristics (MRLC) Consortium
- NLCD 1992 was the first national land cover data set produced since the early 1970s
- In addition to remapping the lower 48 states, NLCD 2001 will include Alaska, Hawaii, and Puerto Rico



NLCD 2001 model

- Database approach
- NLCD 2001 design principles (Homer, *et al*, 2004)
 - land cover products for a variety of users
 - access to intermediate database products and derivatives
 - standardized land cover products that can be quickly updated
 - constrain methods
 - compatibility with NLCD 1992

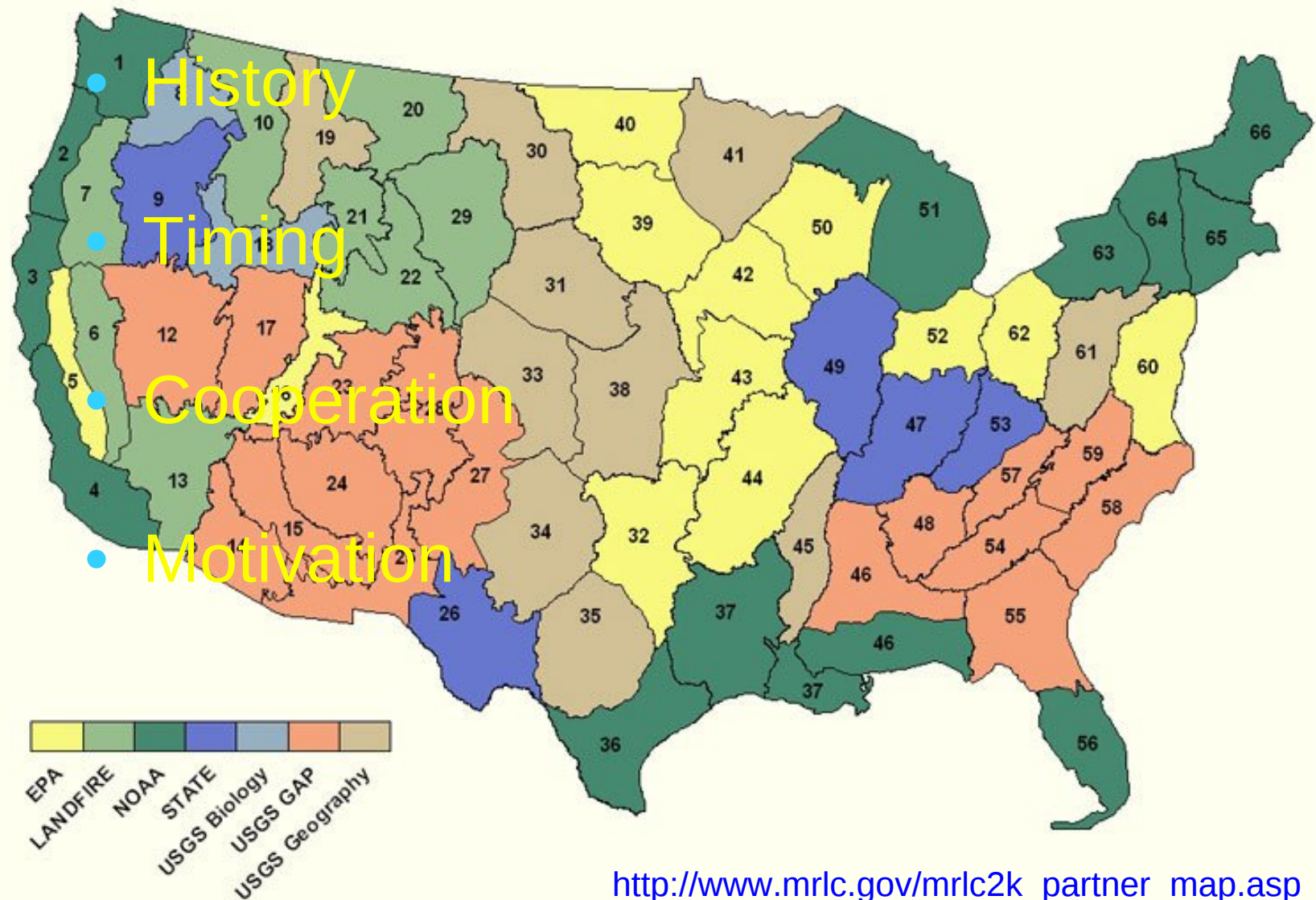




SEGAP as a NLCD 2001 partner

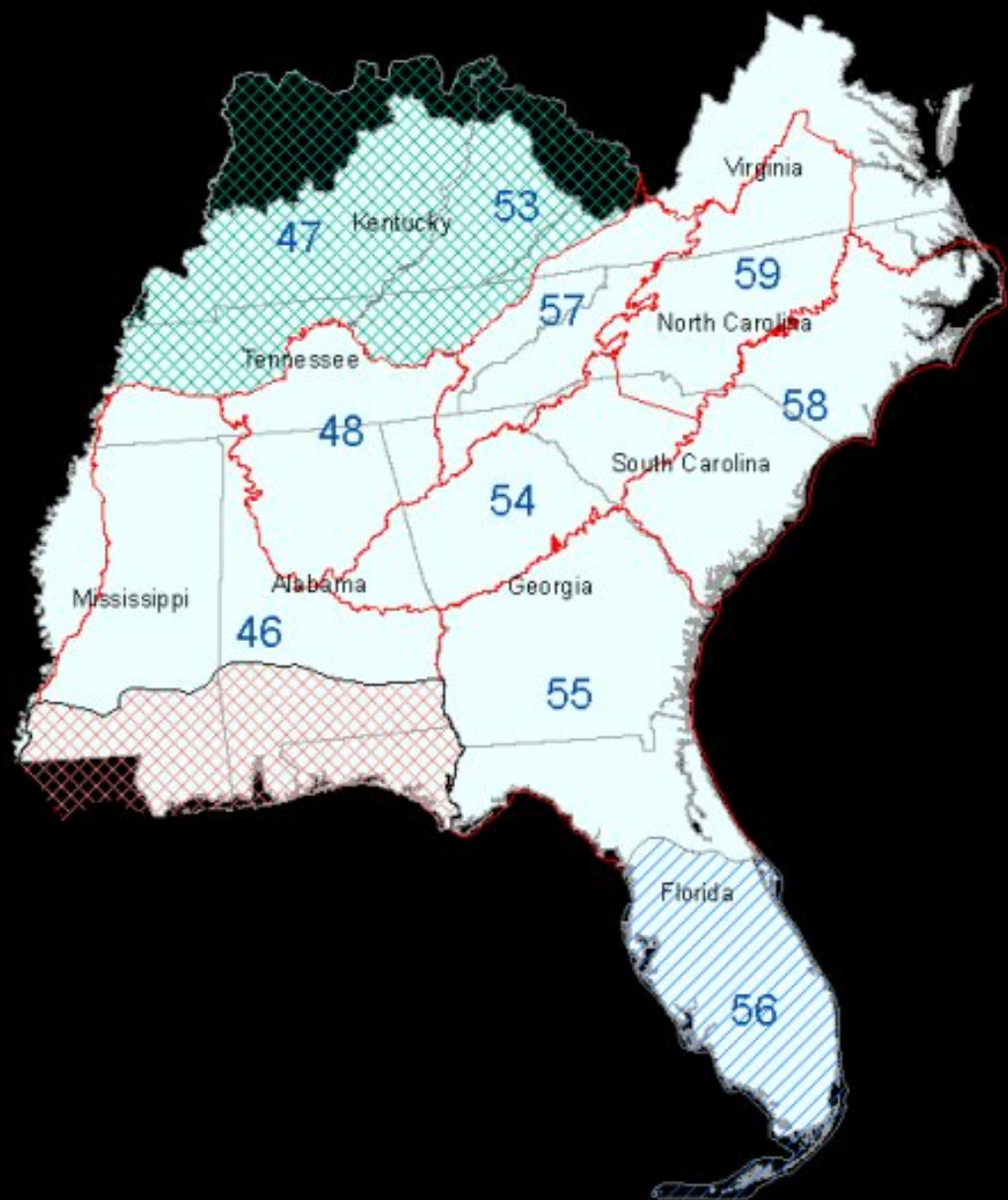


Major NLCD 2001 Land Cover Partner, By Mapping Zone



http://www.mrlc.gov/mrlc2k_partner_map.asp

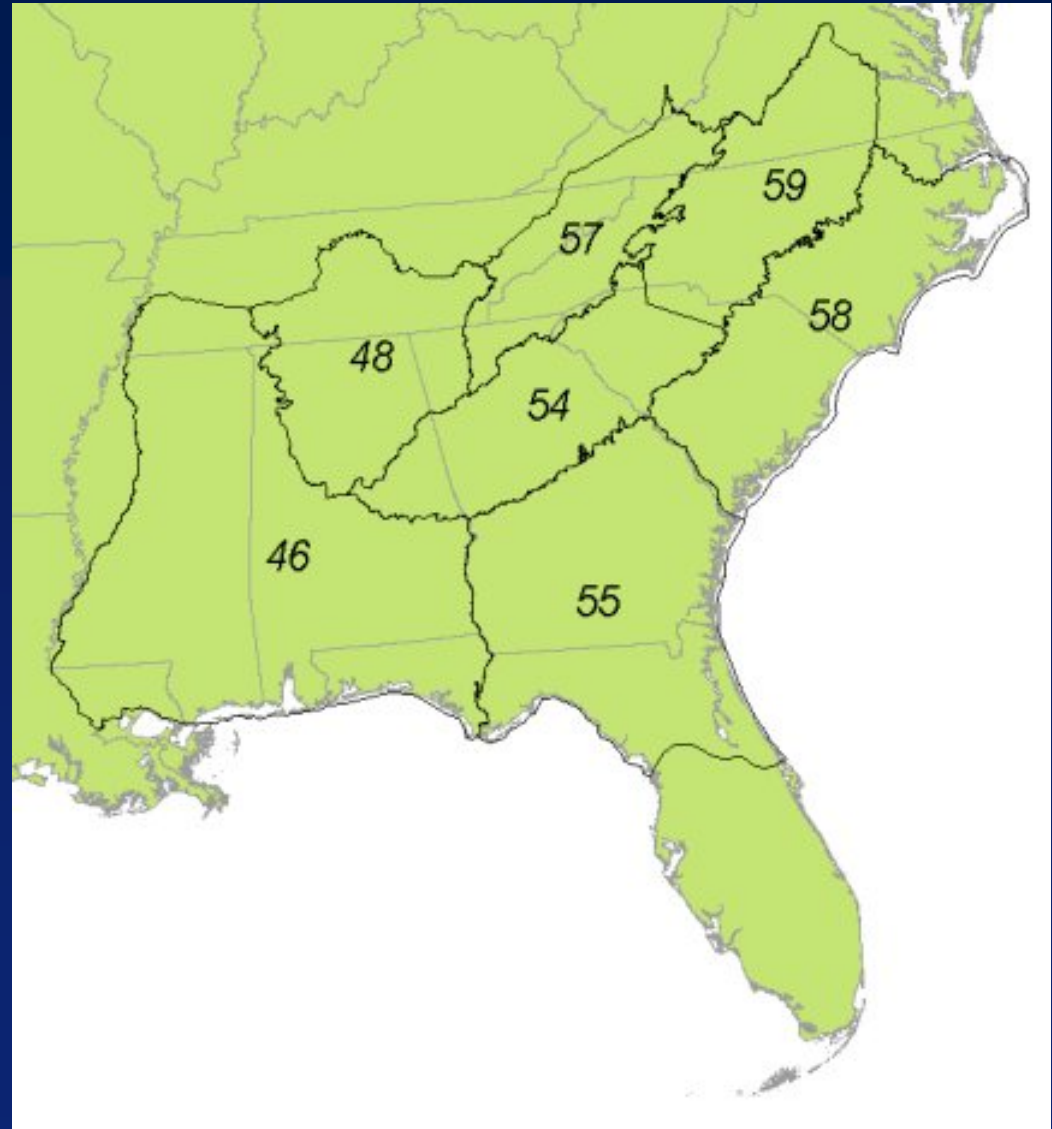
Current SEGAP mapping zones





Contributions of SE-GAP to NLCD 2001

- 7 mapping zones
- Thematic land cover
 - 15 NLCD
 - 22 NLCD / NOAA CCAP
- Canopy closure
 - 0 -100%
- Impervious surface
 - 0 -100%





Current uses of SE NCLD 2001

- Water quality research
- Urban avoidance mask



Future Work at SE-GAP

- Complete ecological systems mapping
- Habitat mapping



Gap Analysis Program

<http://gapanalysis.nbii.gov/>

Southeast Gap Analysis Project

<http://www.basic.ncsu.edu/segap/>

MRLC

<http://www.mrlc.gov/index.asp>