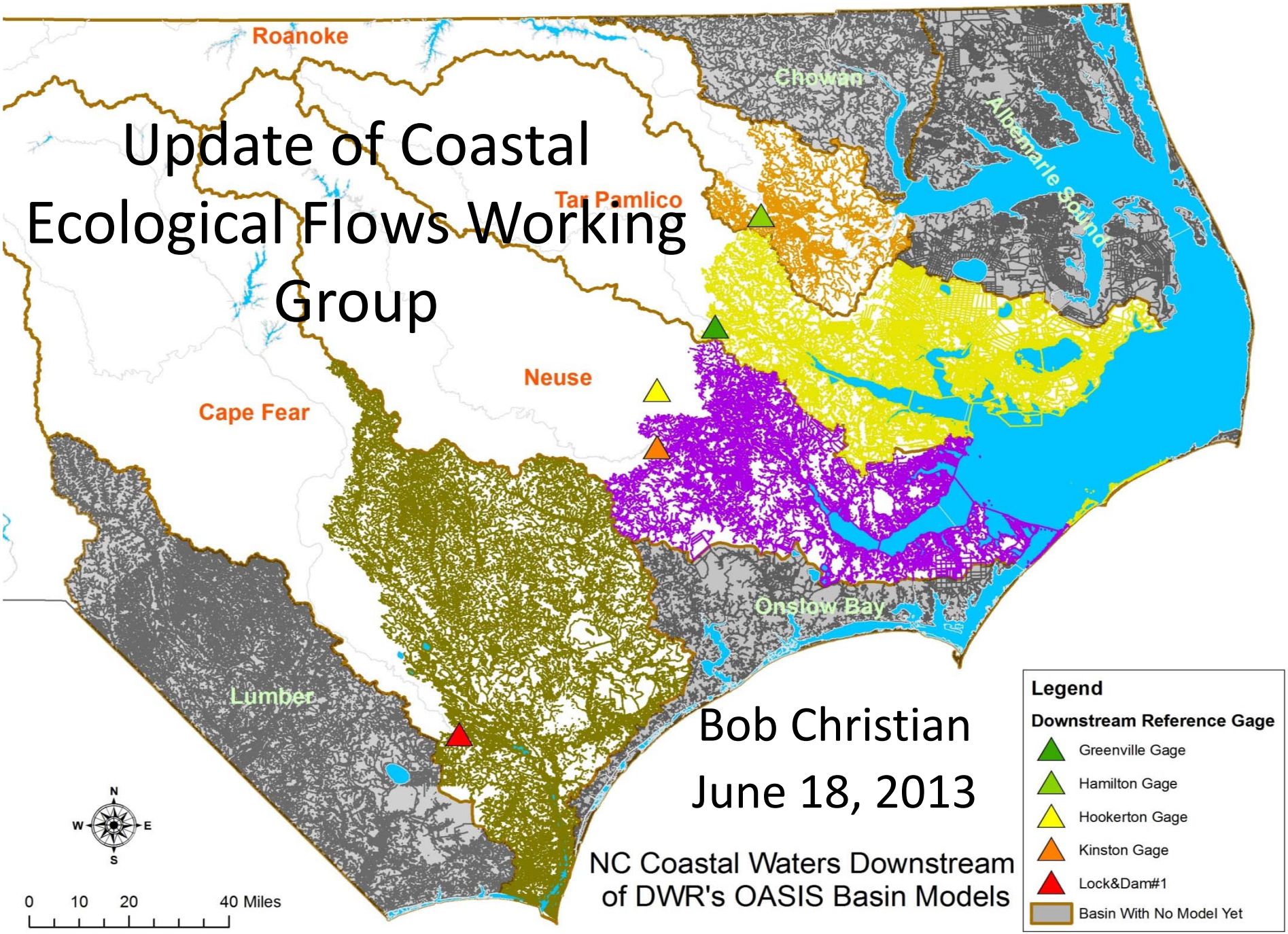
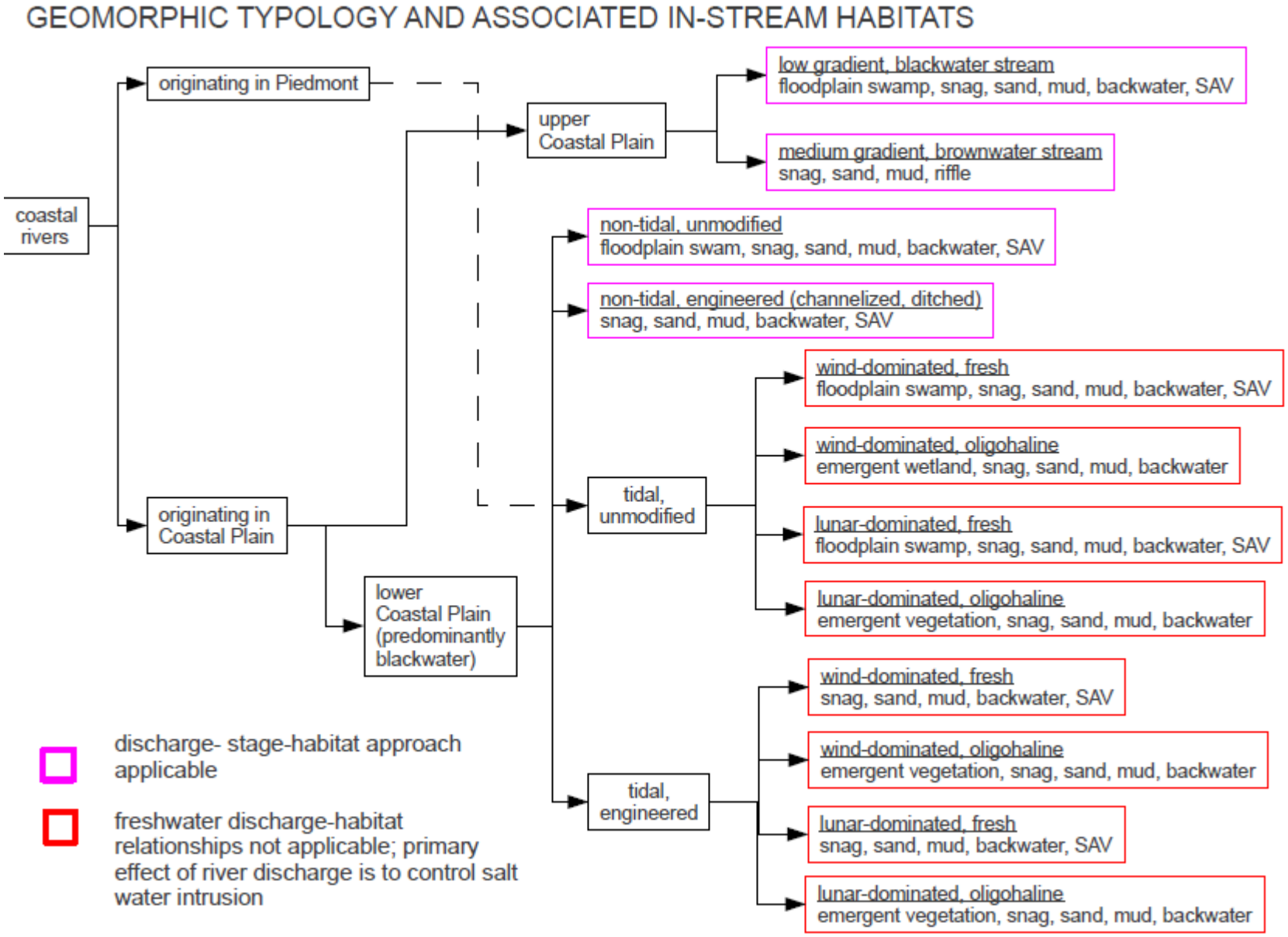

Update of Coastal Ecological Flows Working Group
Roanoke
Chowan
Albemarle Sound
Tar Pamlico
Neuse
Cape Fear
Onslow Bay
Lumber
Bob Christian
June 18, 2013
NC Coastal Waters Downstream of DWR's OASIS Basin Models
N
W
E
S
0 10 20 40 Miles
Legend
Downstream Reference Gage
Greenville Gage
Hamilton Gage
Hookerton Gage
Kinston Gage
Lock&Dam#1
Basin With No Model Yet

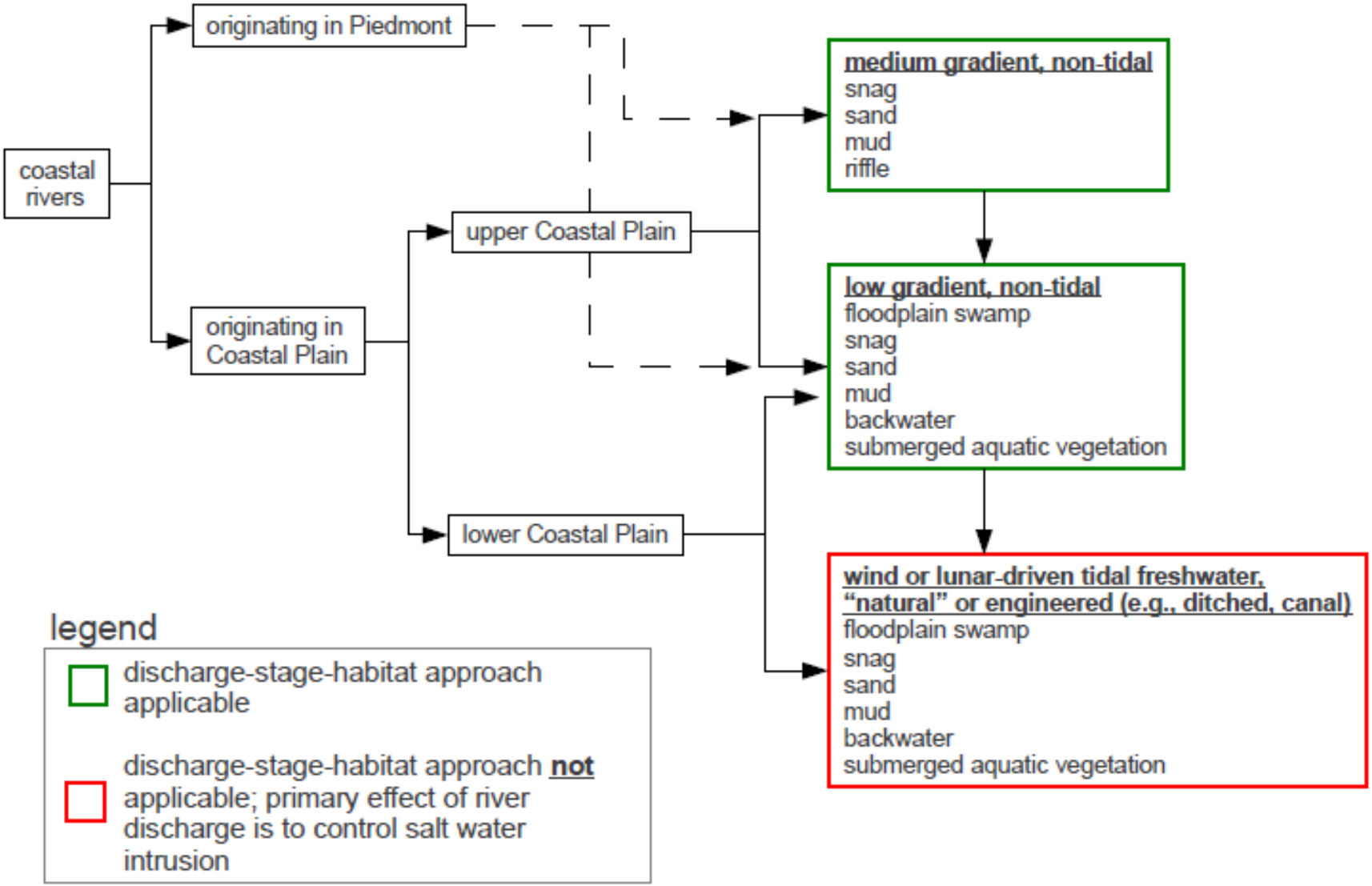
Agenda for Coastal Ecological Flows Working Group
June 17, 2013

- Objectives:
- Assess applicability of previous coastal work
  - Other states
  - Greenville
- Hone stream classification framework based on Scott's efforts and previous discussions
  - Identify key classes to consider based on importance of environmental factors and potential for flow modification by human activity
- Advance modeling effort
  - Consider maps of potential areas of concern
  - Other?

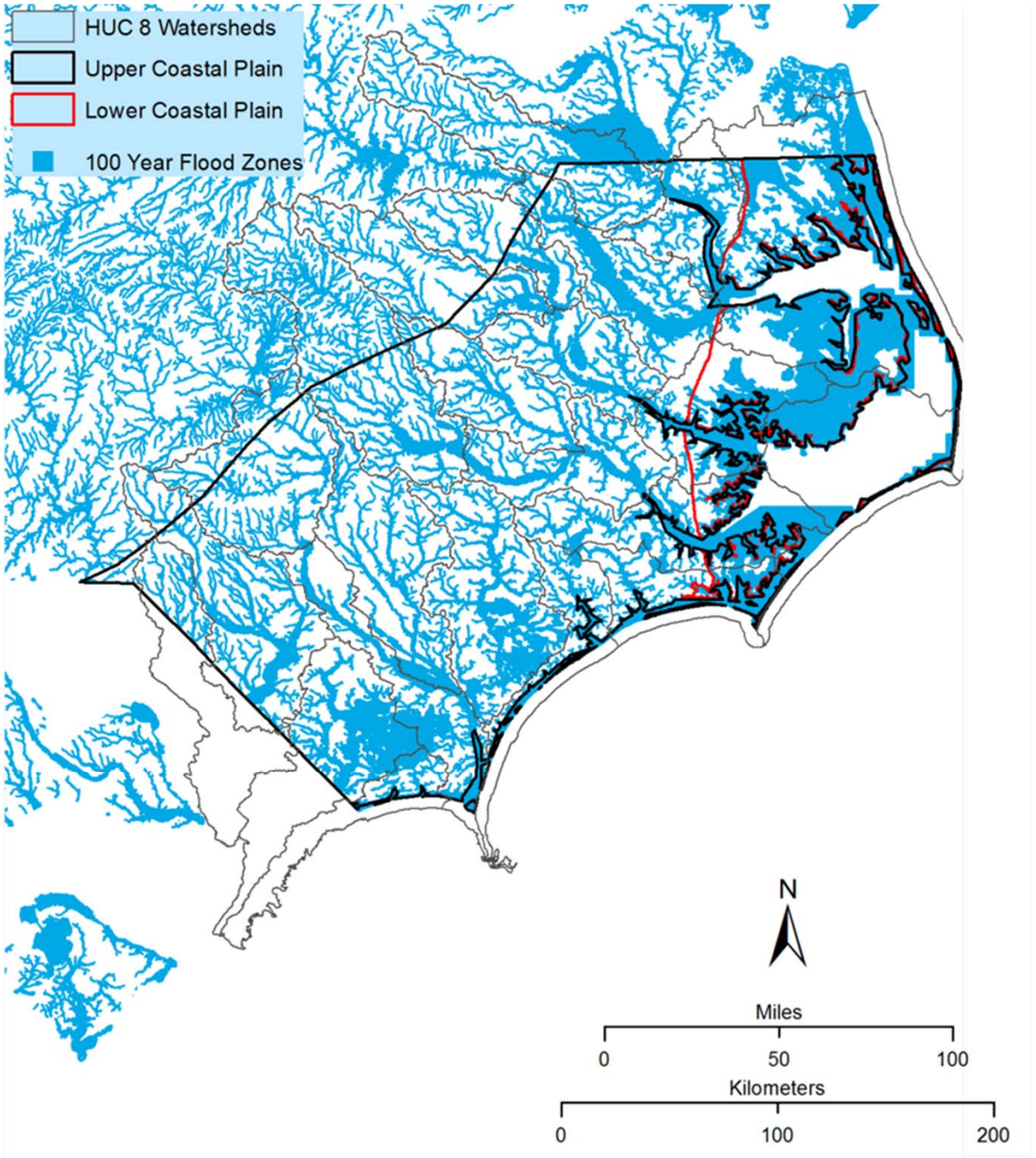


Scott Ensign

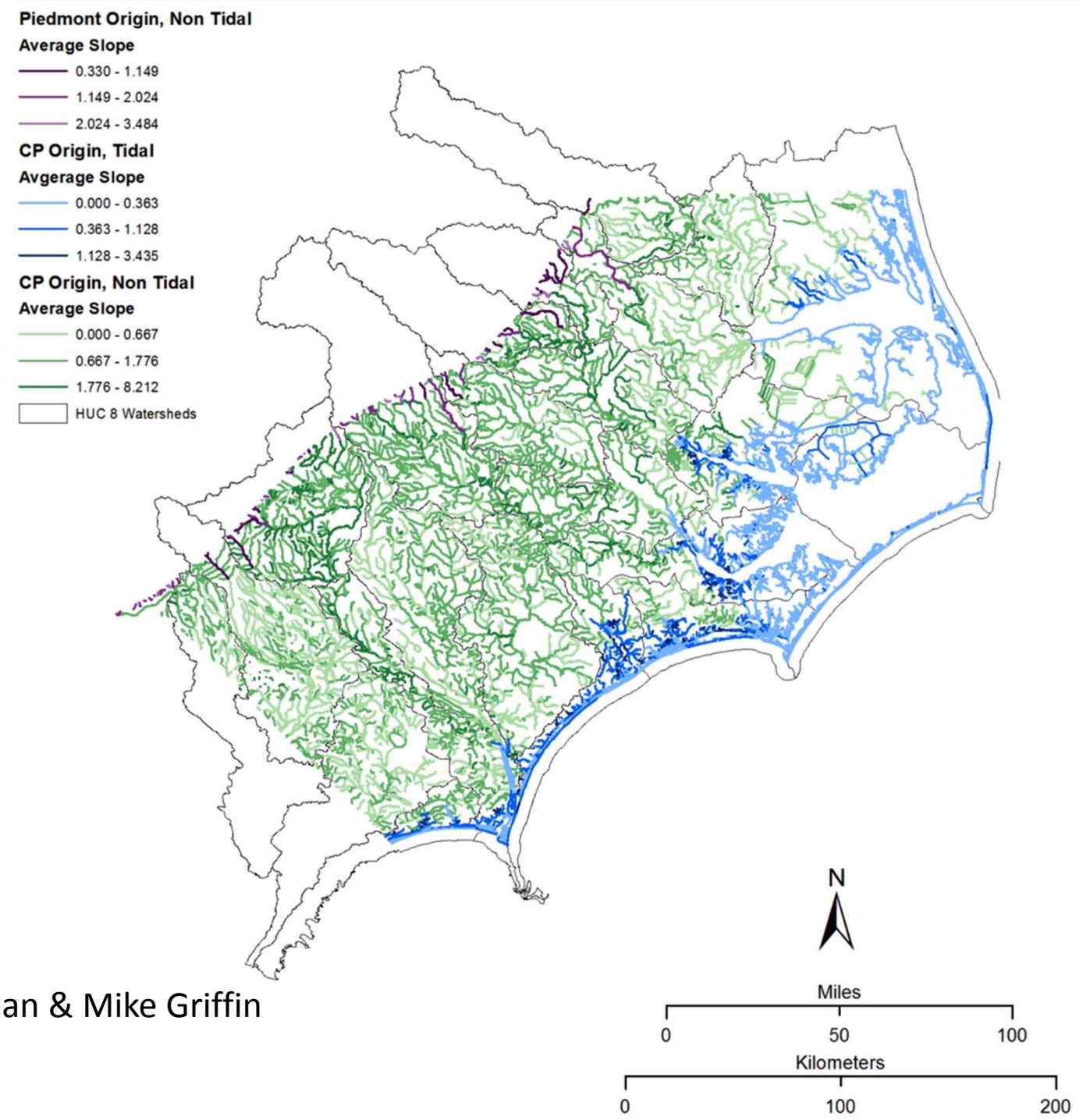
GEOMORPHIC TYPOLOGY AND ASSOCIATED IN-STREAM HABITATS



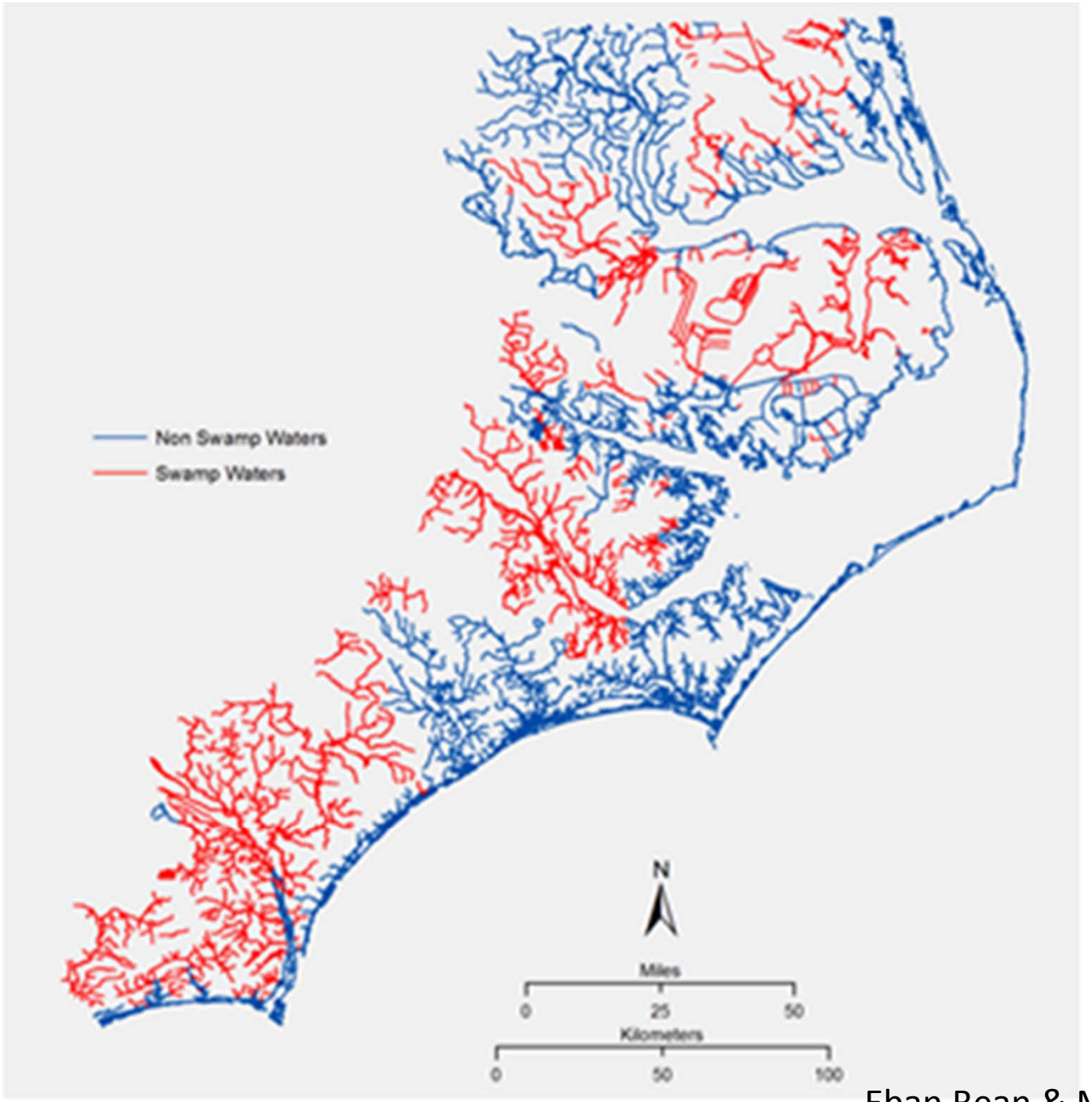
Scott Ensign



Eban Bean &
Mike Griffin



Eban Bean & Mike Griffin



Eban Bean & Mike Griffin

Link of Stream Typology & Potential EF Determination

Origin	Slope	EF determinant		
		Discharge & Habitat	Downstream Salinity	Overbank Flow
Piedmont	Medium gradient	X	X	
Upper Coastal Plain	Medium gradient	X	X	
Upper Coastal Plain	Low gradient	X	X	X
Lower Coastal Plain	Low gradient	X	X	X
Lower Coastal Plain	Wind or tidal driven flow		X	X