



Matthew Jurjonas¹

Dr. Abinash Bhattachan²

Dr. Sudipta Dasmohapatra³

Dr. Ryan Emanuel²

Dr. Chris Moorman²

Priscilla Morris³

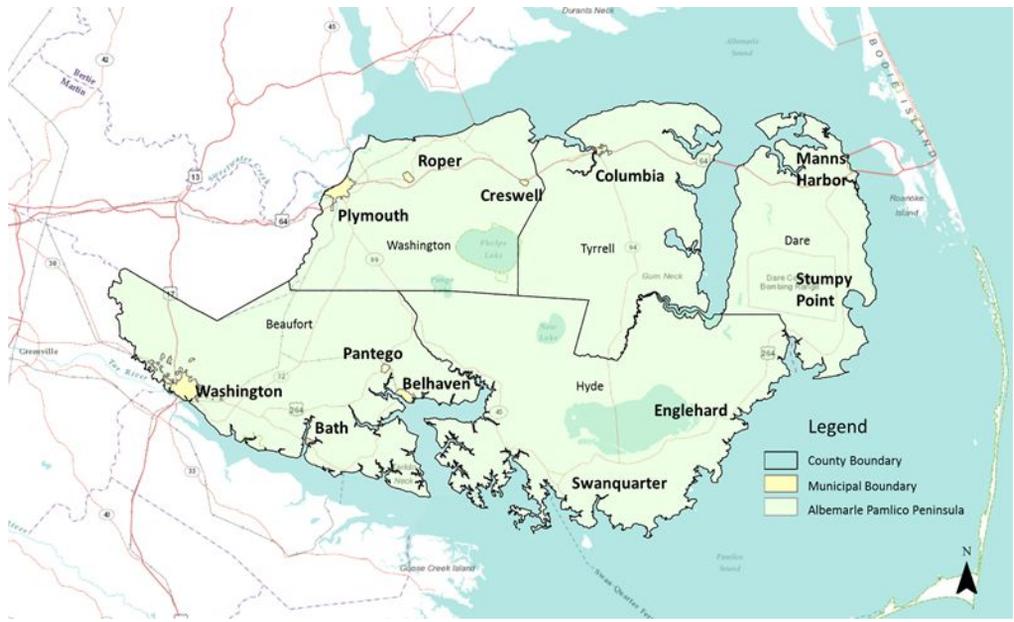
Dr. Erin Seekamp¹

Lindsey Smart²

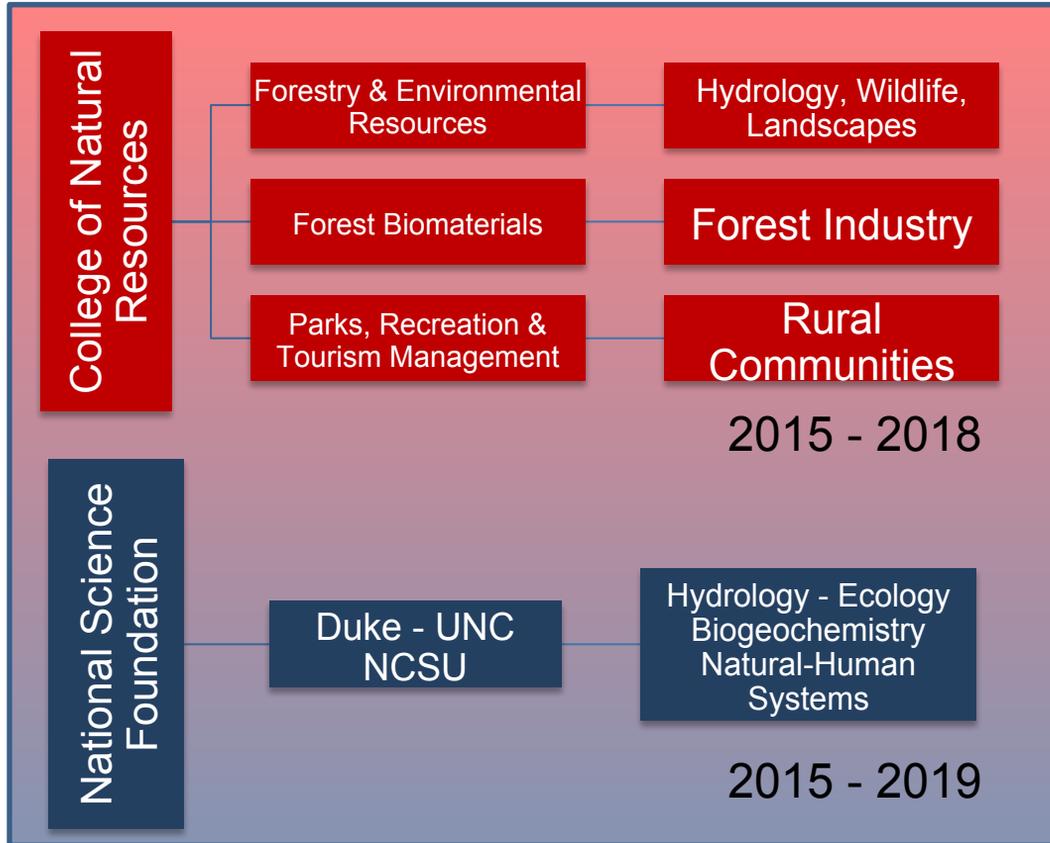
Paul Taillie²

Departments of:

1. Parks, Recreation and Tourism Management
2. Forestry and Environmental Resources
3. Forest and Biomaterials



Overview



Team Structure

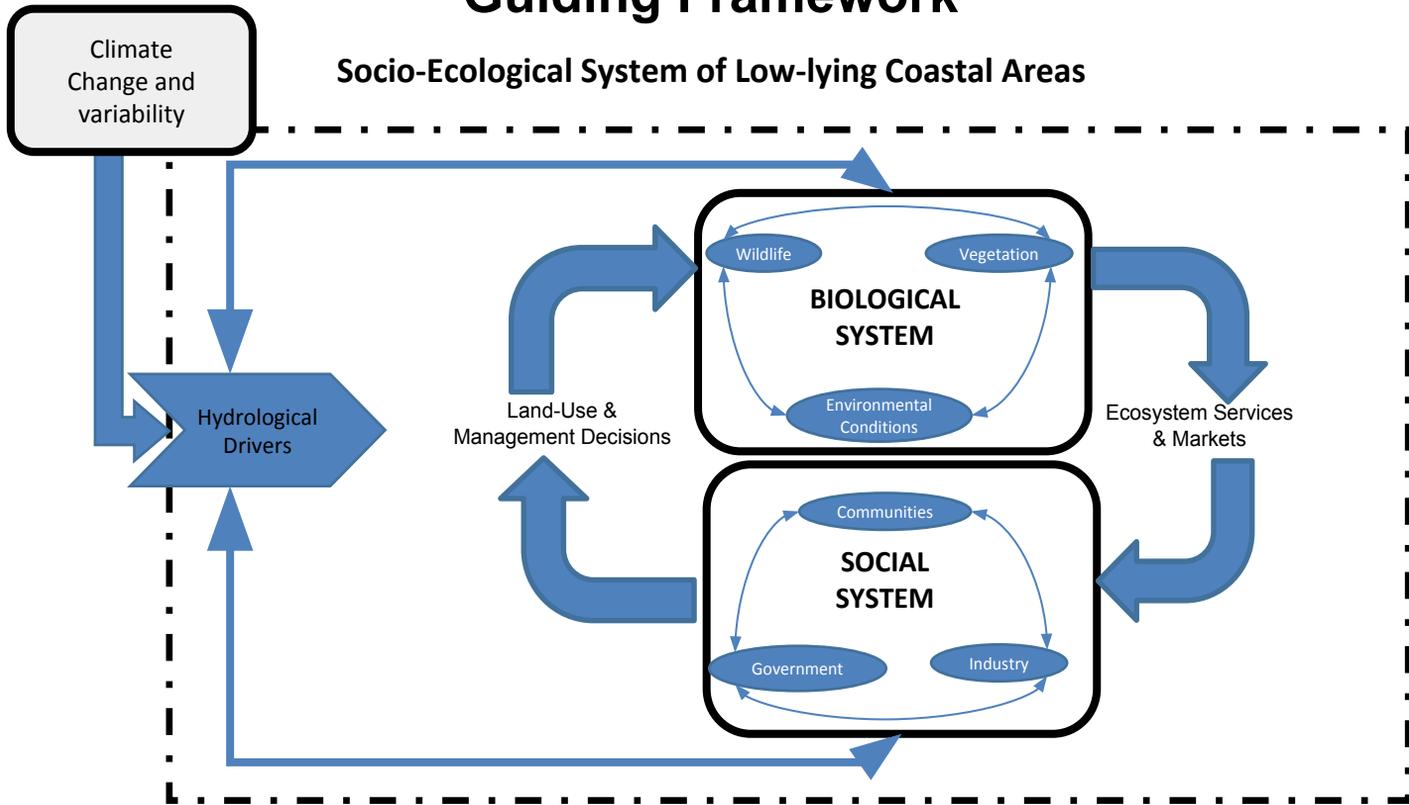
Interdisciplinary
Collaborative
Research

- Seminar
- Field work
- Dissemination

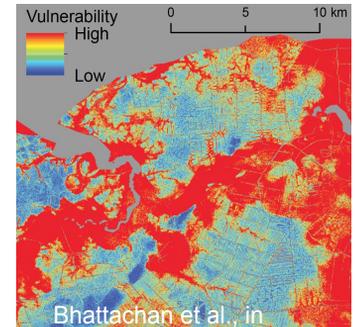
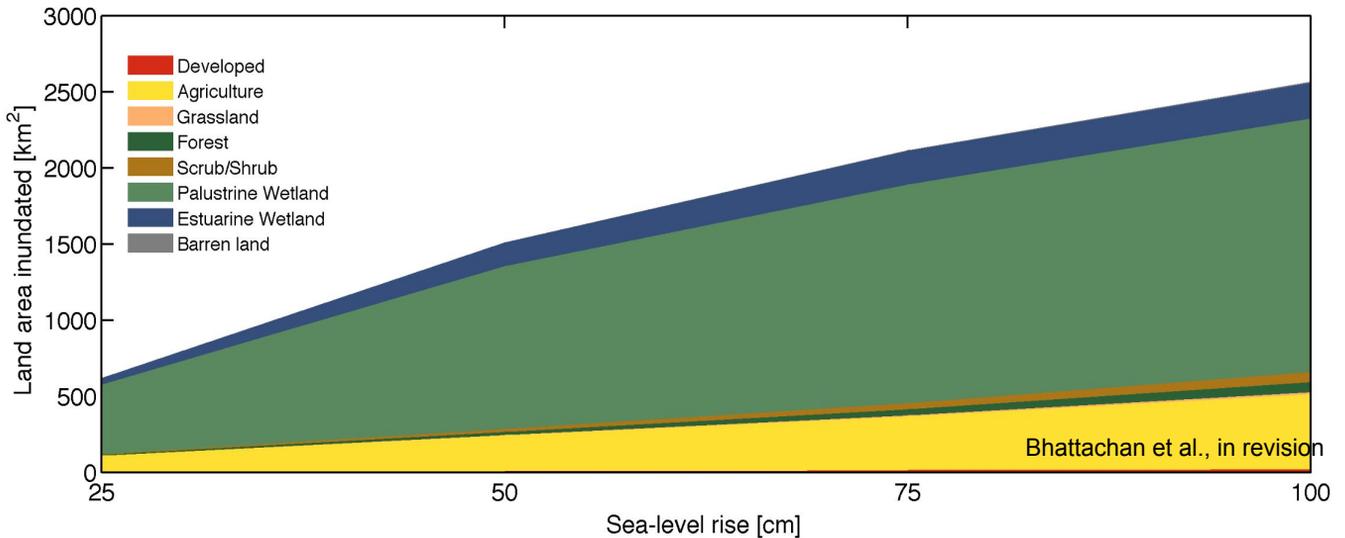


Guiding Framework

Socio-Ecological System of Low-lying Coastal Areas

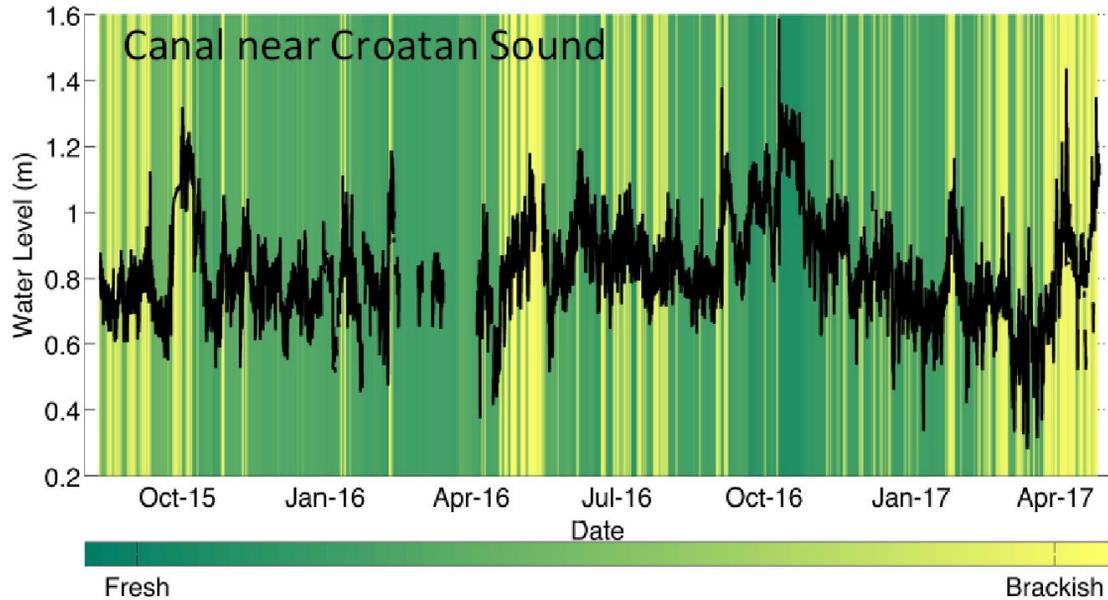


Saltwater Exposure & Vulnerability



Physical Hydrology and Water Quality

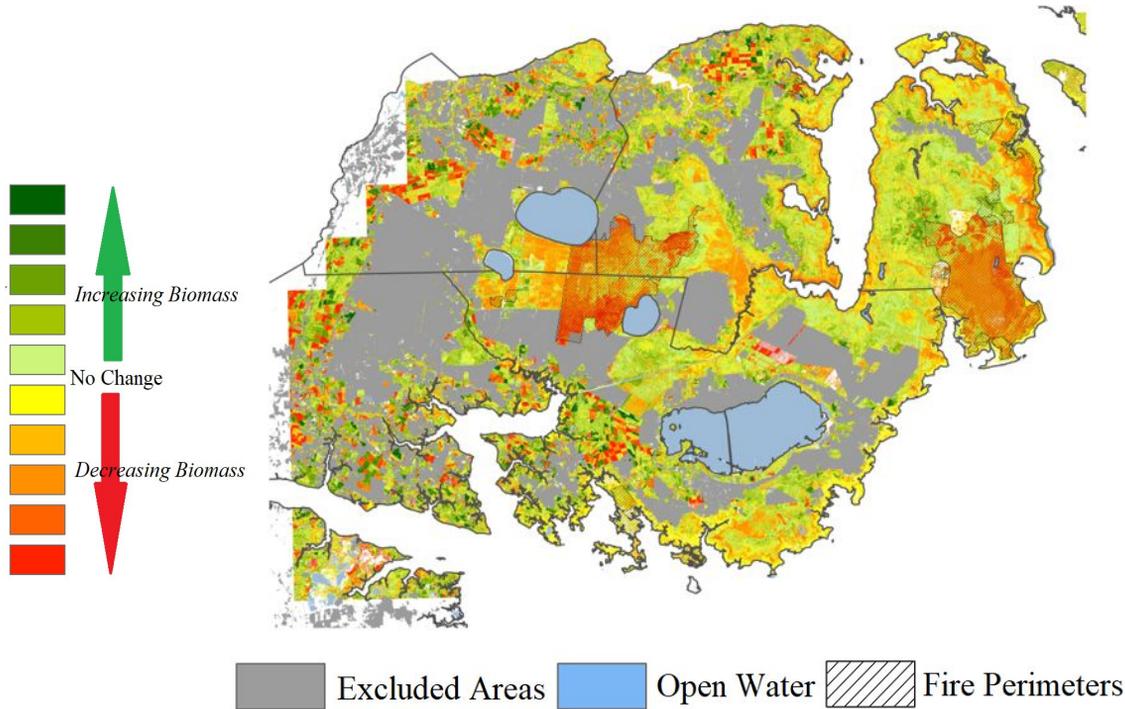
Ryan Emanuel & Abinash Bhattachan



Saltwater intrusion: Episodic & not necessarily driven by high water level

Mapping Coastal Vegetation Change

Lindsey Smart & Ross Meentemeyer

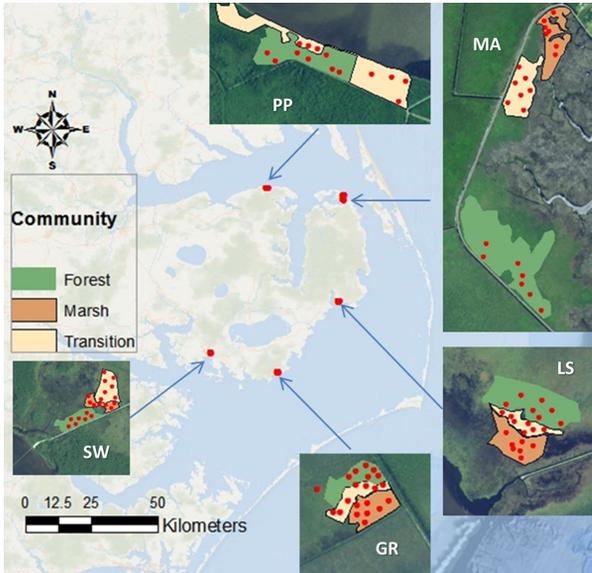


2001-2014 Aboveground Biomass Change

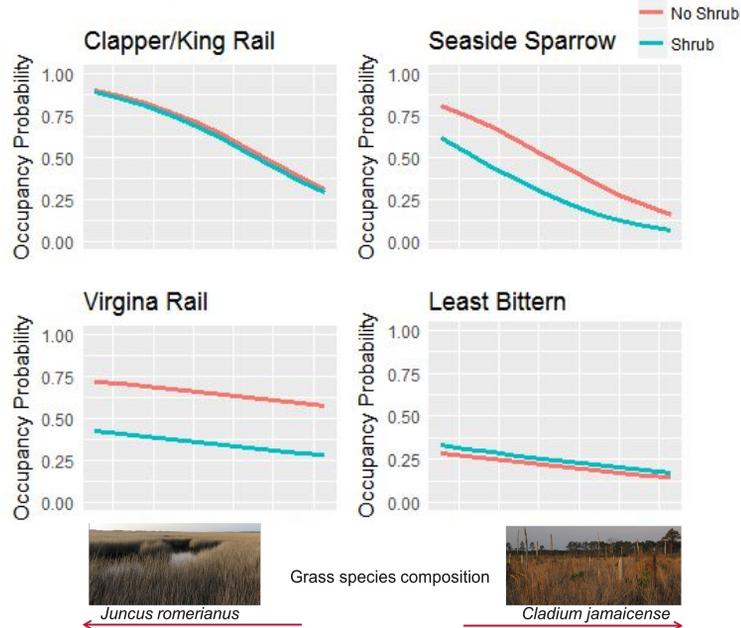
Ecological Changes

Paul Taillie & Chris Moorman

12 years of change at 5 coastal forest sites



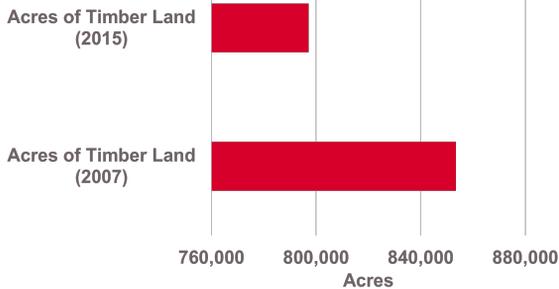
Marsh bird responses to vegetation composition



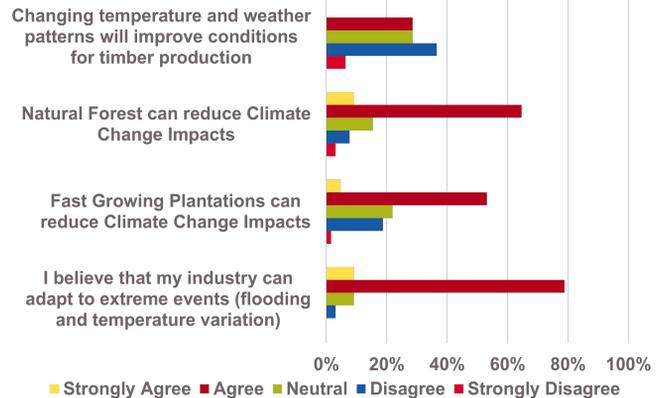
Forest Industry Member Perceptions of Climate Change

Priscilla Morris & Sudipta Dasmohapatra

Change in Acres of Timber Lands in the AP Peninsula

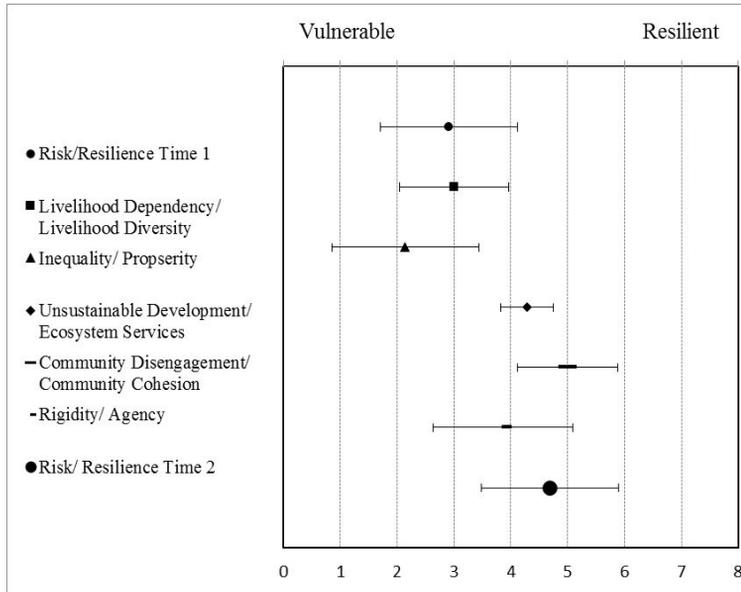


Perception of Industry Resilience



Assessing Adaptive Capacity in Rural Coastal Communities

Matthew Jurjonas & Erin Seekamp

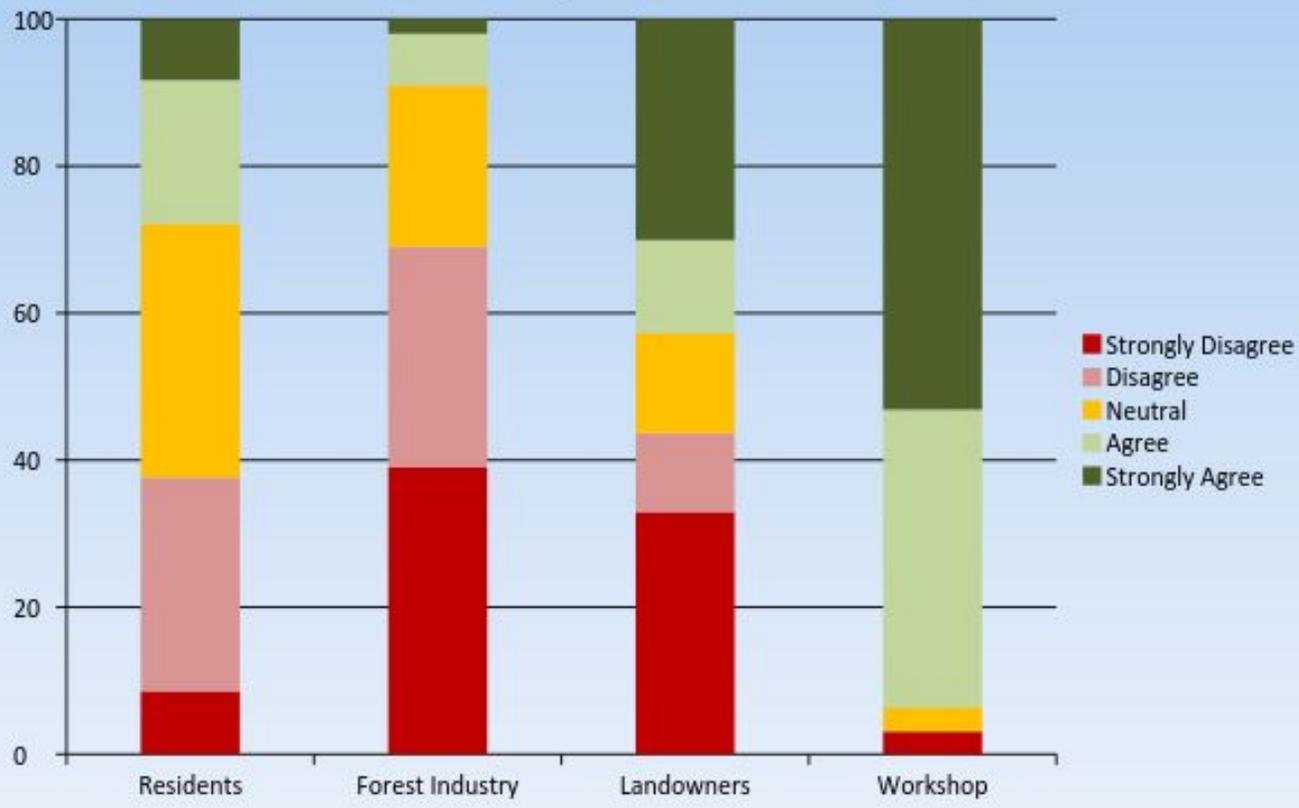


Outreach

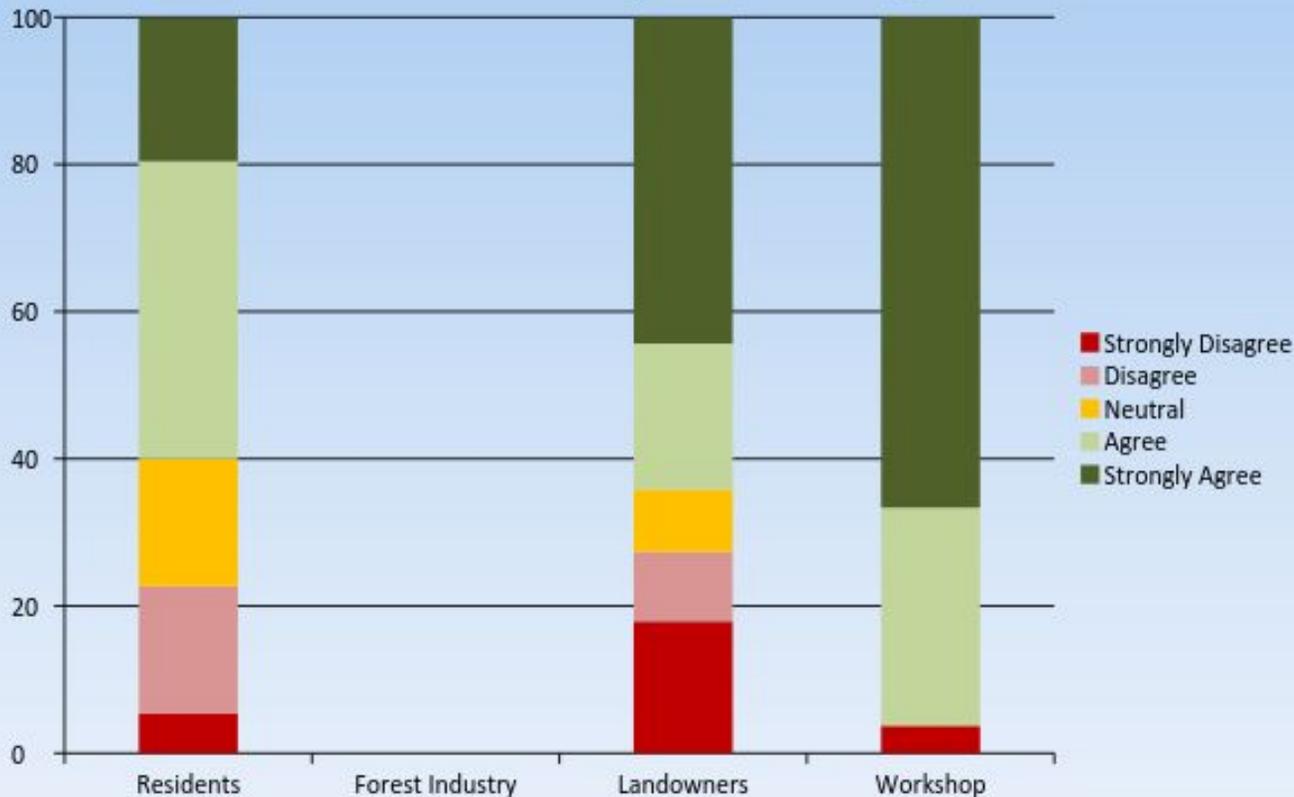
- Agency workshop (Manteo October, 2nd 2017)
- Community workshops (Columbia November, 2nd 2017)



The APP is currently at risk from saltwater intrusion



The APP is currently at risk from flooding

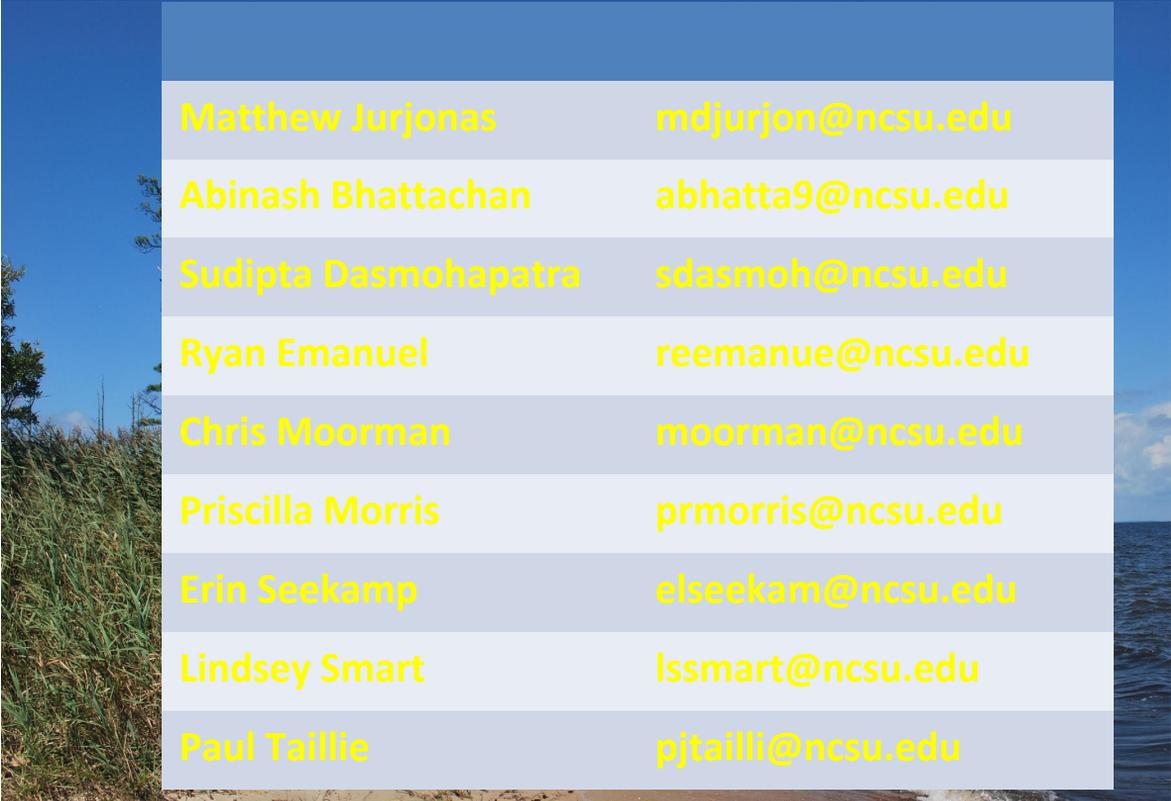


Collaboration Lessons

- Communication
 - Formal seminar; informal discussions
- Human capital
 - Field work; expanded networks
- Partnerships
 - NC Sea Grant, APNEP, FWS
- Synergy
 - Organic development of research ideas
 - Integrated research components
 - Novel research within the team and within the study site
 - Minimize informant burden

Thank You!!!

Any Questions?



Matthew Jurjonas	mdjurjon@ncsu.edu
Abinash Bhattachan	abhattacha9@ncsu.edu
Sudipta Dasmohapatra	sdasmoh@ncsu.edu
Ryan Emanuel	reemanue@ncsu.edu
Chris Moorman	moorman@ncsu.edu
Priscilla Morris	prmorris@ncsu.edu
Erin Seekamp	elseekam@ncsu.edu
Lindsey Smart	lssmart@ncsu.edu
Paul Taillie	pjtailli@ncsu.edu