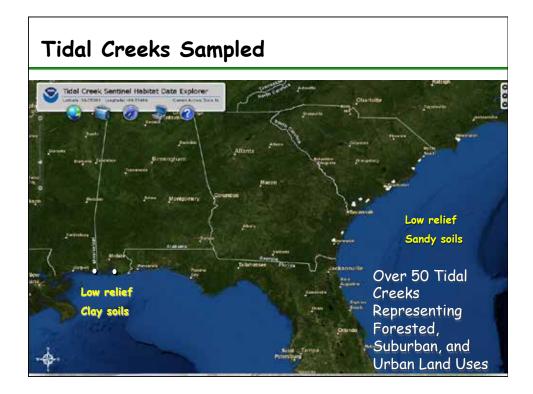


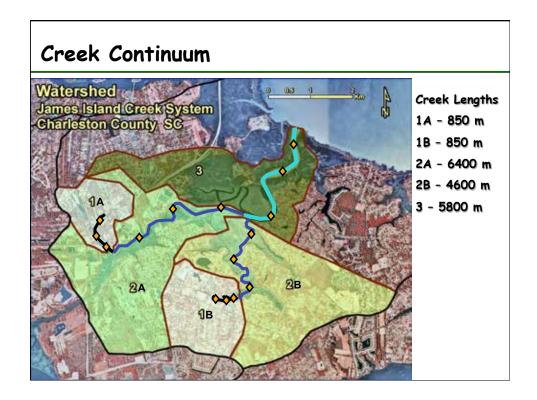


## **Objectives of Presentation**

- Provide a synthesis of the impacts coastal development, or sprawl, has on coastal ecosystems and the humans that live in them.
- Demonstrate that tidal creek networks are sentinel ecosystems in the SE that provide early warning of the consequences of uncontrolled development on the Coastal Zone.

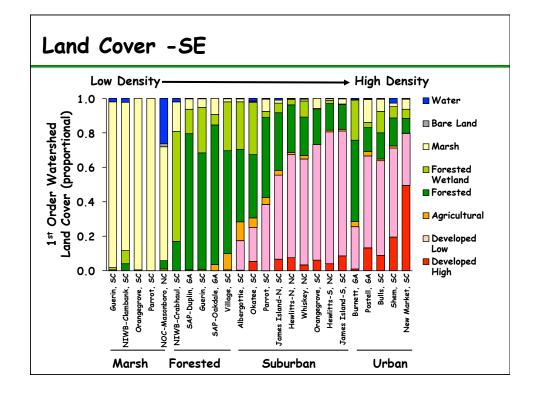
Center of Excellence for Oceans and Human Health at the Hollings Marine Laboratory

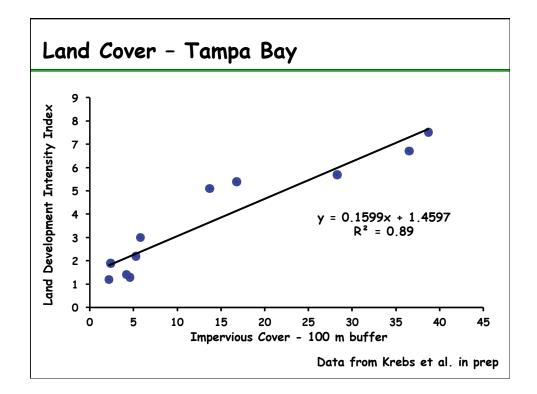


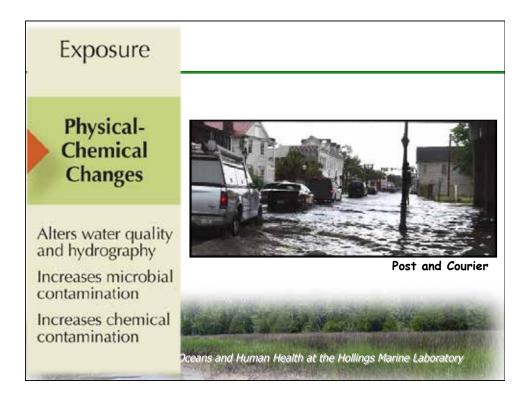


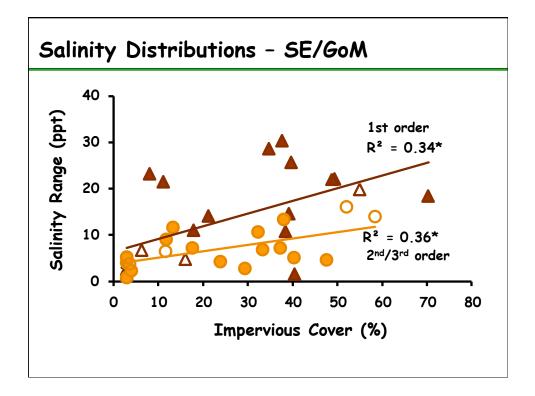
Stressor	Exposure	Biological Response	Societal Response	
Coastal Development Activities	Physical- Chemical Changes	Living Resources Impacts	Health and Well Being	
Increases population density Alters land cover Increases impervious surface	Alters water quality and hydrography Increases microbial contamination Increases chemical contamination	Reduces biological productivity Alters food webs Impairs animal health	Increases beach and shellfish bed closures Increases flooding Increases public health risk and economic impact	

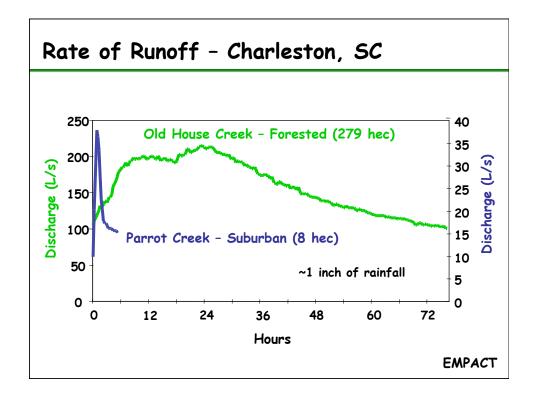


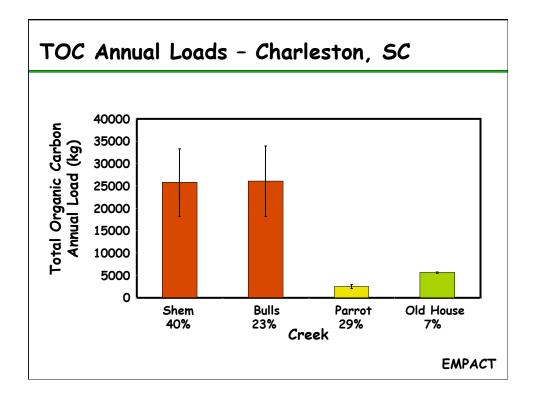


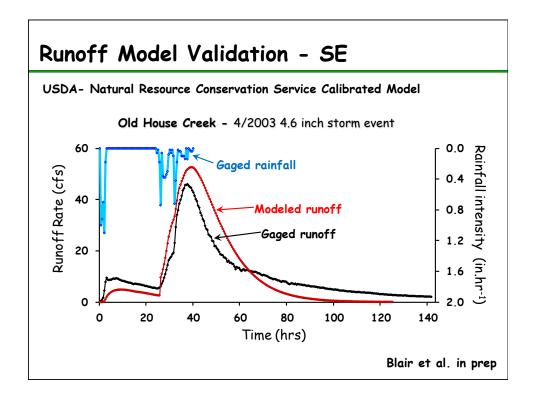


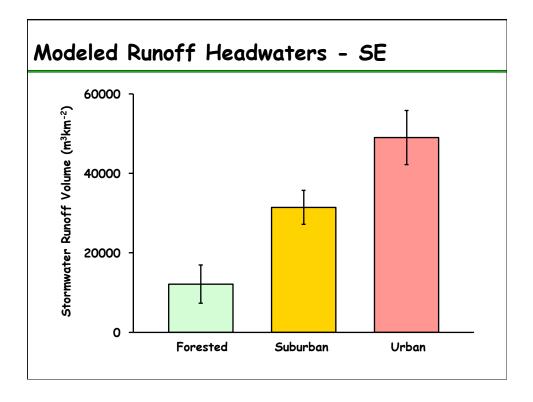


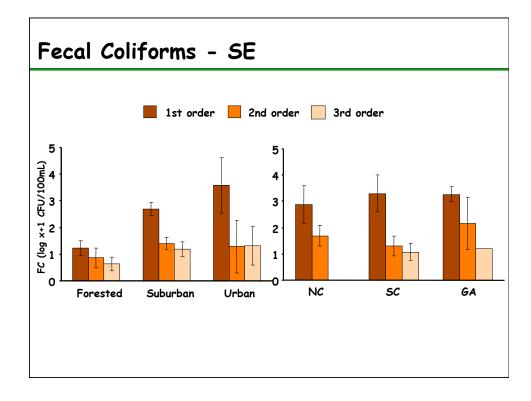


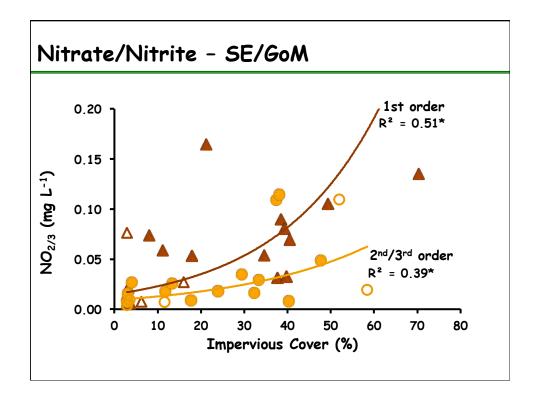


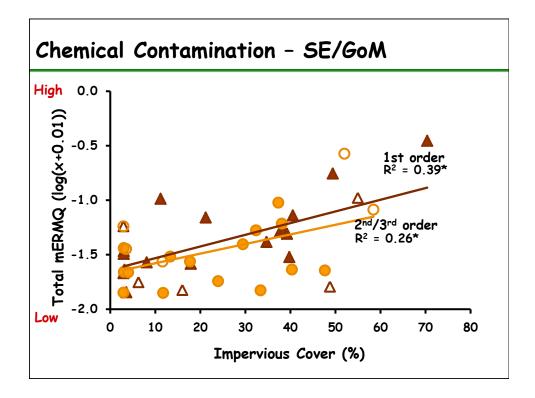


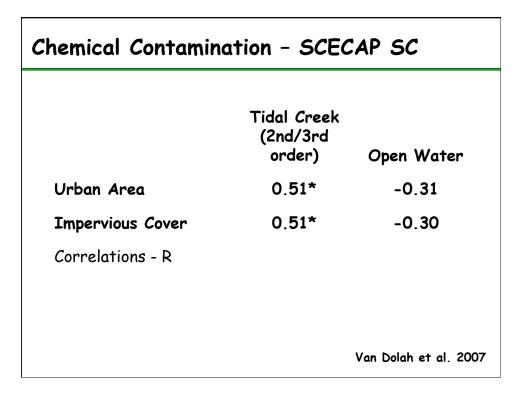


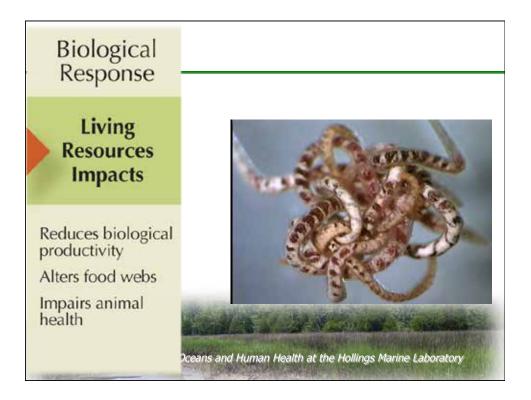


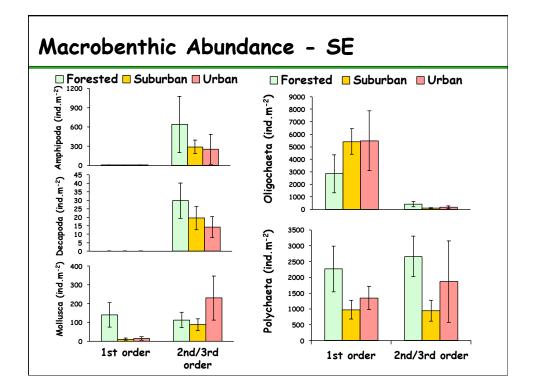


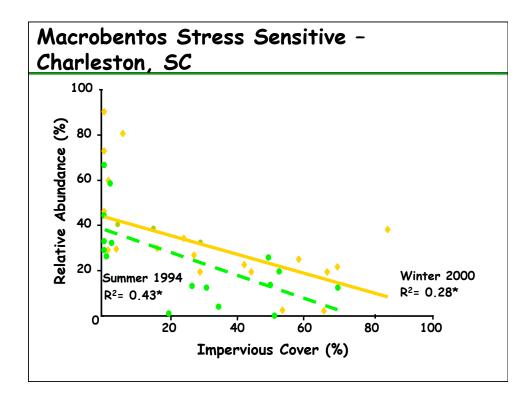


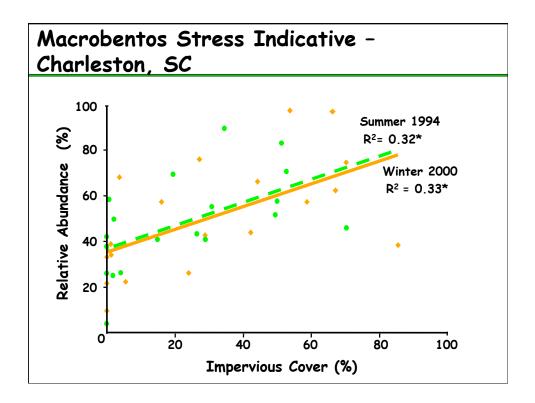


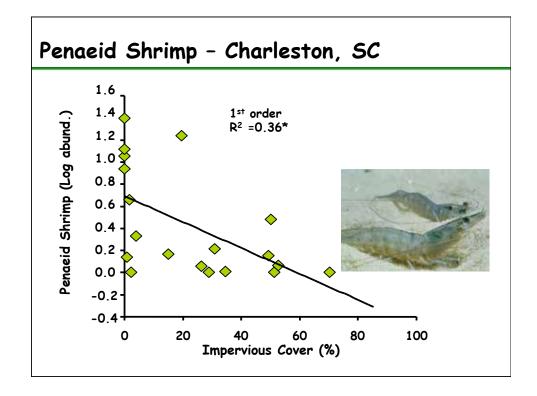


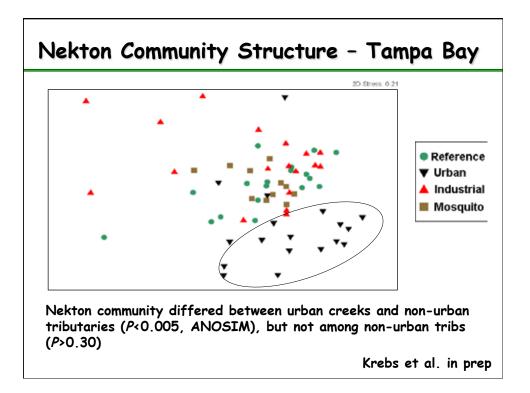


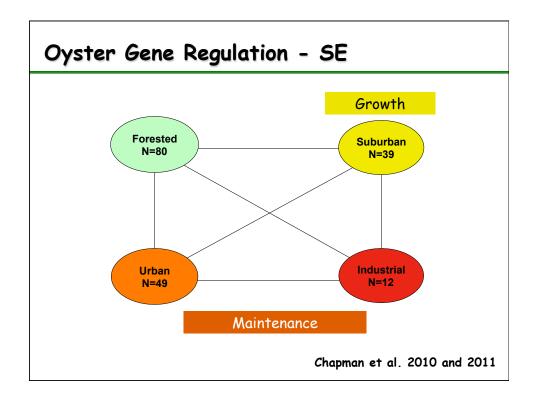


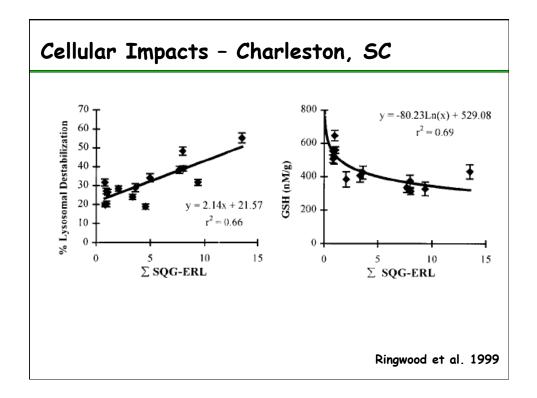






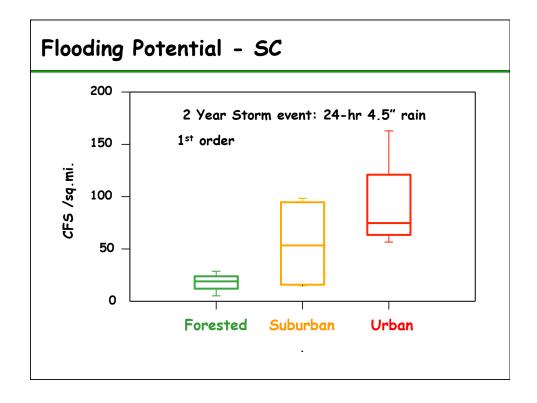


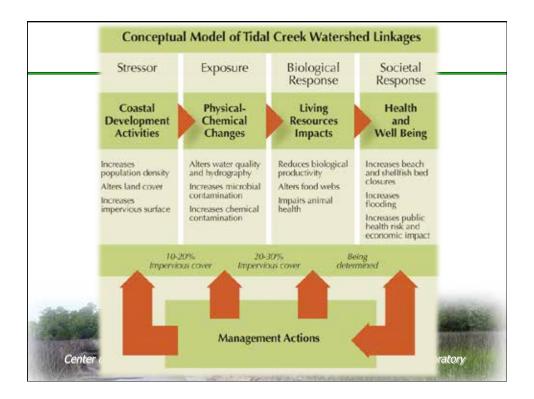


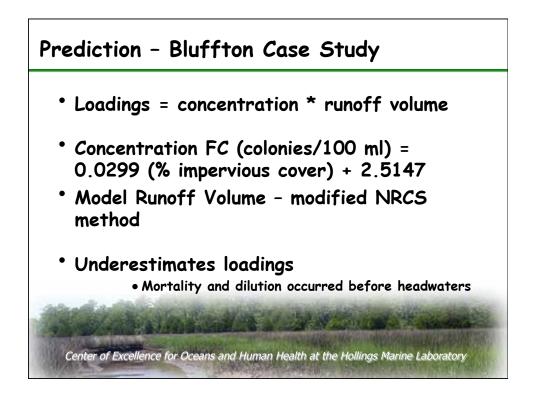


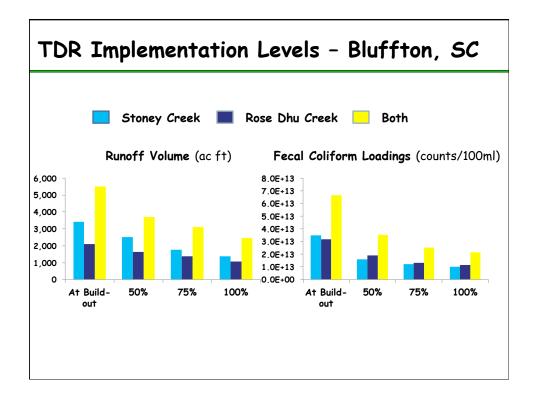


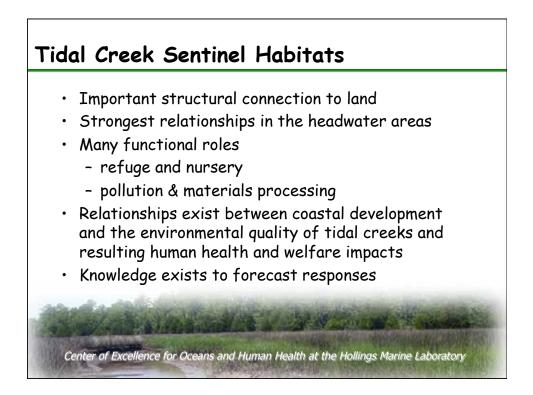
			Carteret	County
	Population	Closings	Landings	Value
Population		0.24*	(-)0.55*	(-)0.20*
Closings	0.77*		(-)0.43*	(-)0.31*
Landings	(-)0.11	(-)0.23*		0.78*
Value	(-)0.00	(-)0.01	0.77*	
	New H	anover (	County	

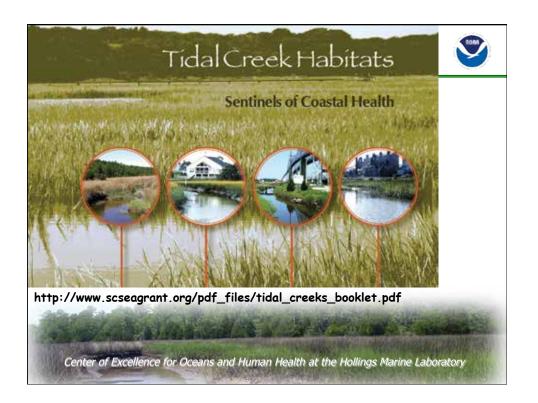












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