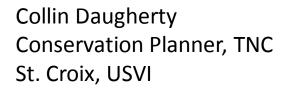
Climate Δ

Impacts and adaptation in the US Virgin Islands





If you were to design a problem that people did not care about it would be **global warming**

- Dan Ariely Behavioral Economist



Recipe for not caring

1. Happens far away in the future

- 2. Happens to other people
- 3. Our response feels like a drop in the bucket

- Dan Ariely Behavioral Economist



How to change behavior

Help people:

1. Measure

2. Visualize

3. Signal

- Dan Ariely Behavioral Economist



391.80_{ppm}

ATMOSPHERIC CO2 DECEMBER, 2011

(MAUNA LOA OBSERVATORY: SCRIPPS INSTITUTION OF OCEANOGRAPHY)

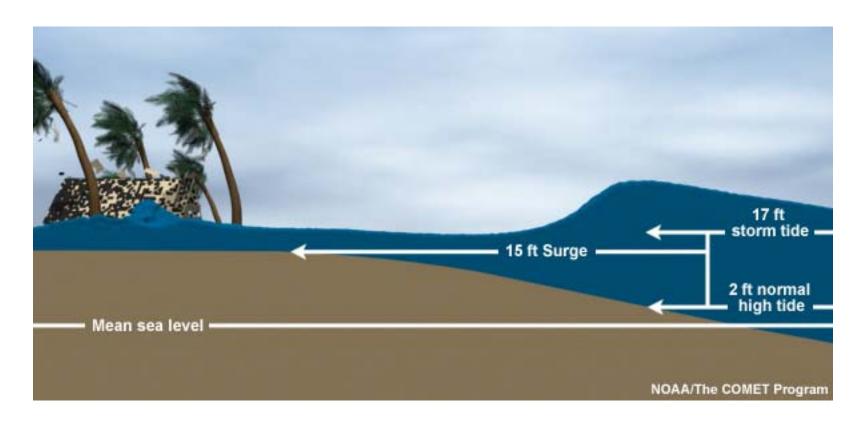


Climate Change Impacts

- Higher temperatures
- Changing landscapes
- Biodiversity at risk
 - bleaching and acidification
- Rising seas
- Increased risk of drought, fire and floods
- Stronger storms and increased storm damage
- More heat-related illness and disease
- Economic losses



Storm surge inundation from hurricanes



Source: NOAA National Hurricane Center

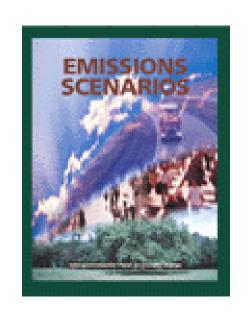


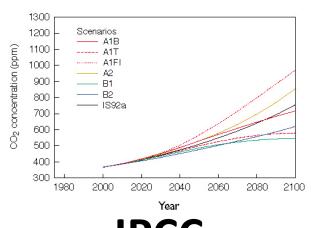
PRIMARY INGREDIENTS



ACE
LiDAR
elevation data

NOAA tidal gauge data





IPCC emissions scenarios

Methodology



COASTAL INUNDATION MAPPING GUIDEBOOK

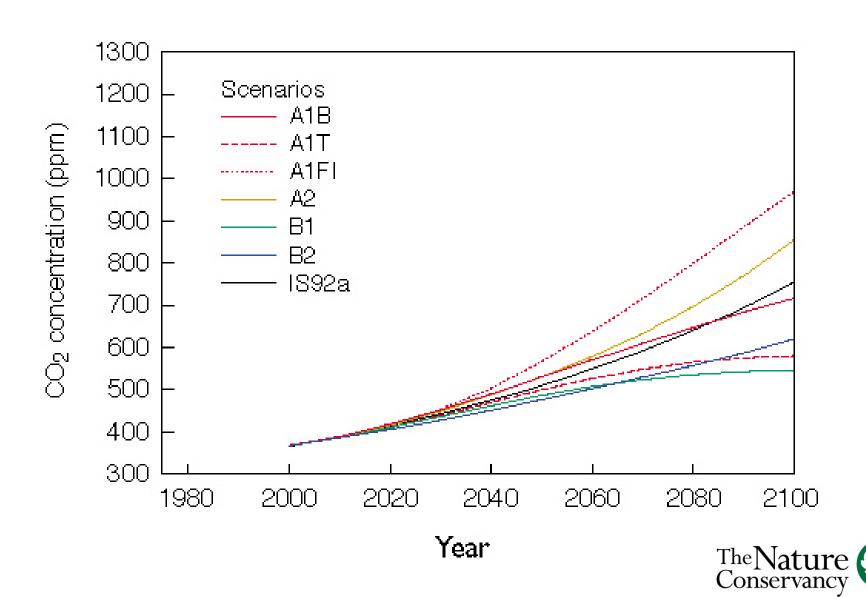
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

COASTAL SERVICES CENTER



August 2009

Which scenario?



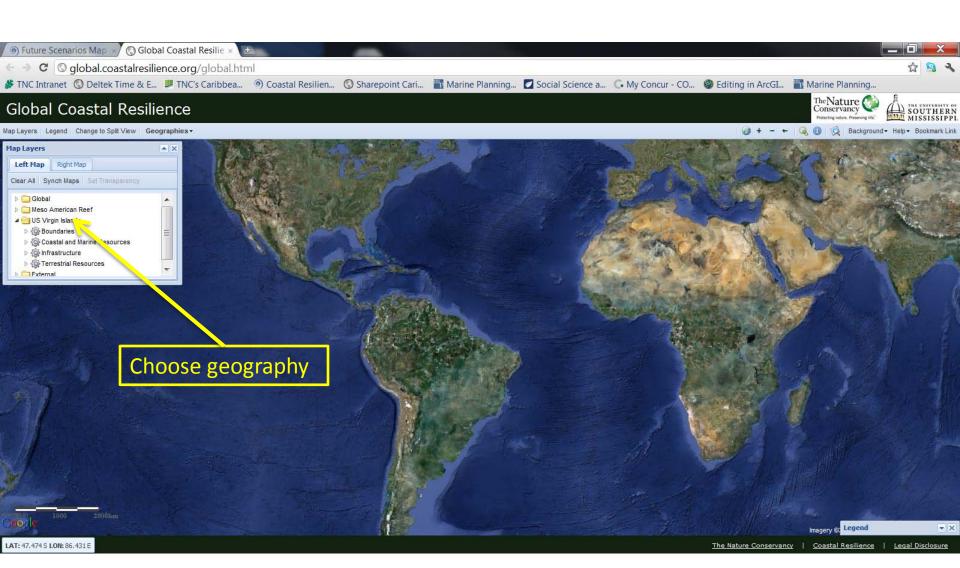
Protecting nature. Preserving life.™

Coastal Resilience

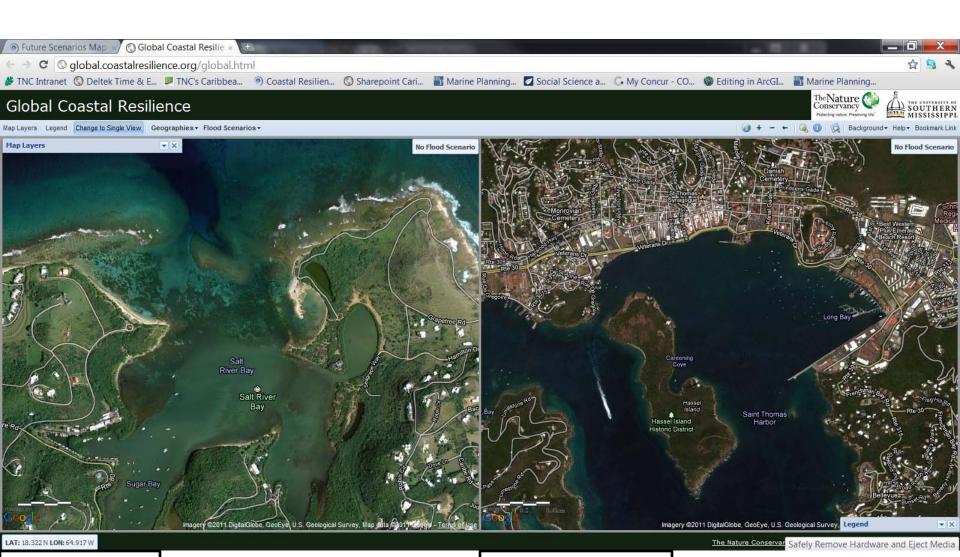


Collin Daugherty
Conservation Planner, TNC
St. Croix, USVI



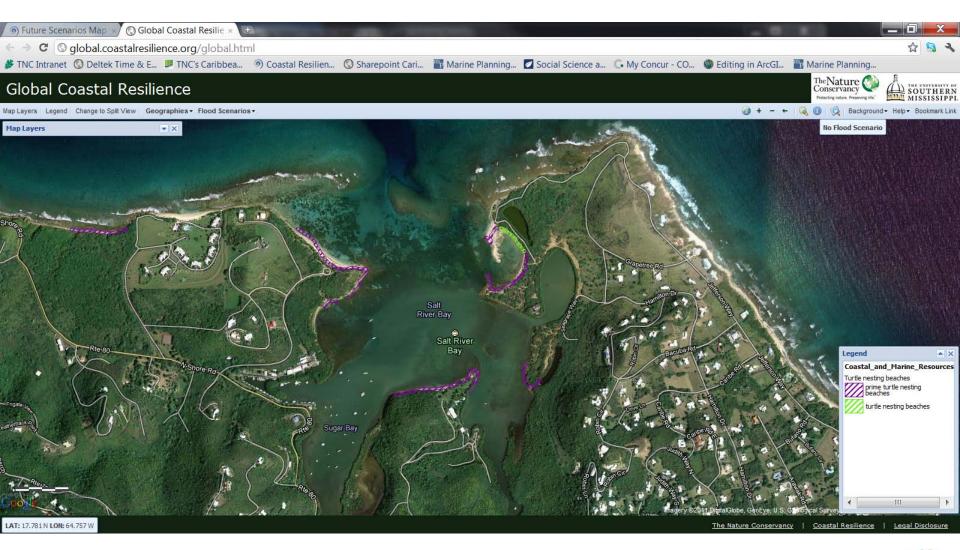




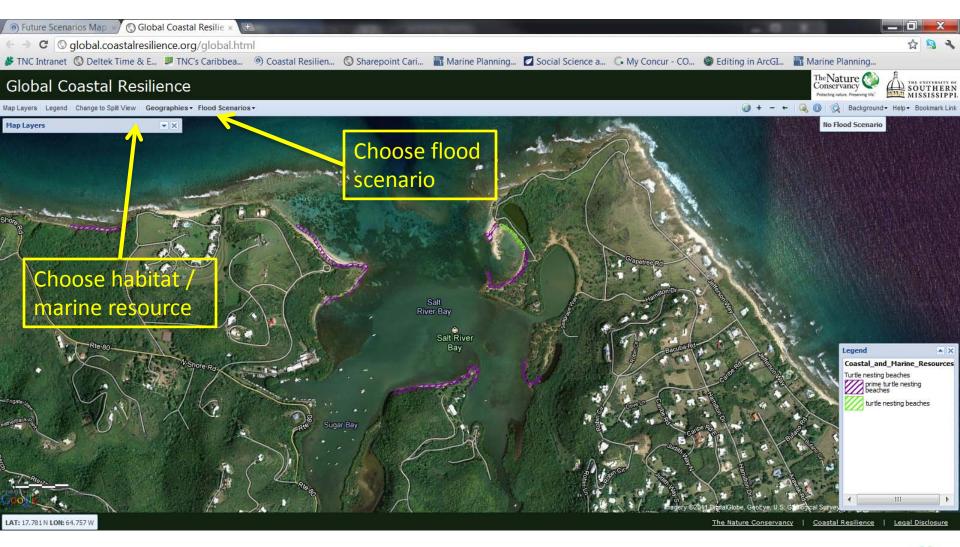


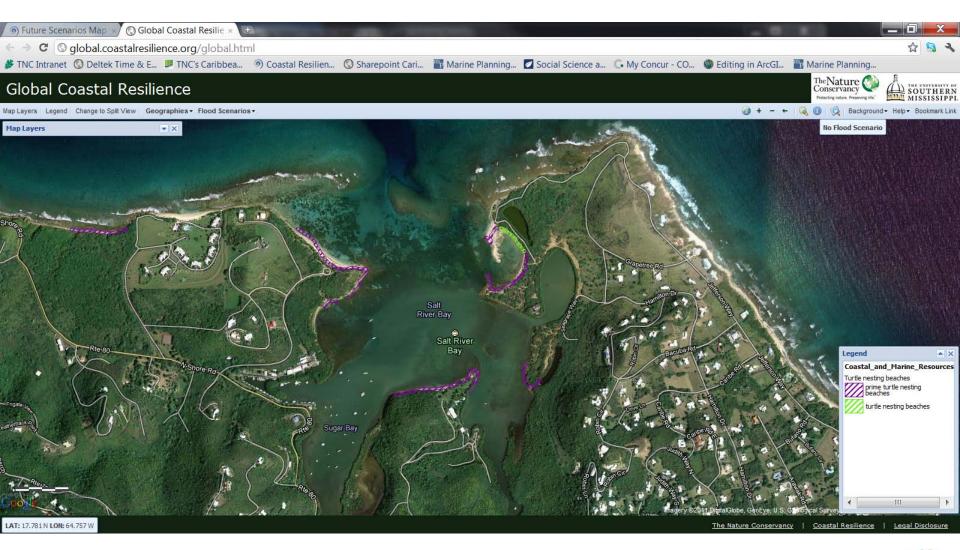
Salt River Bay, St. Croix, USVI Charlotte Amalie, St. Thomas, USVI

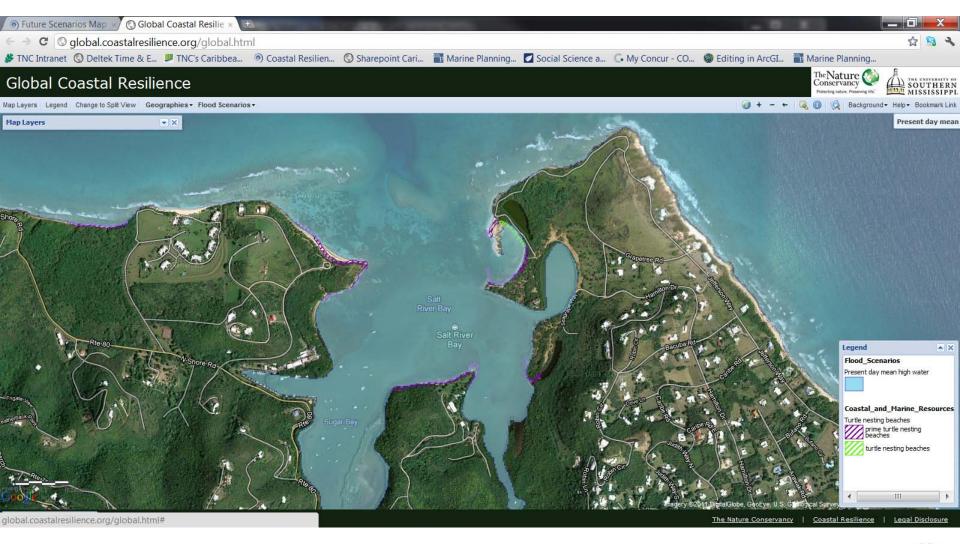




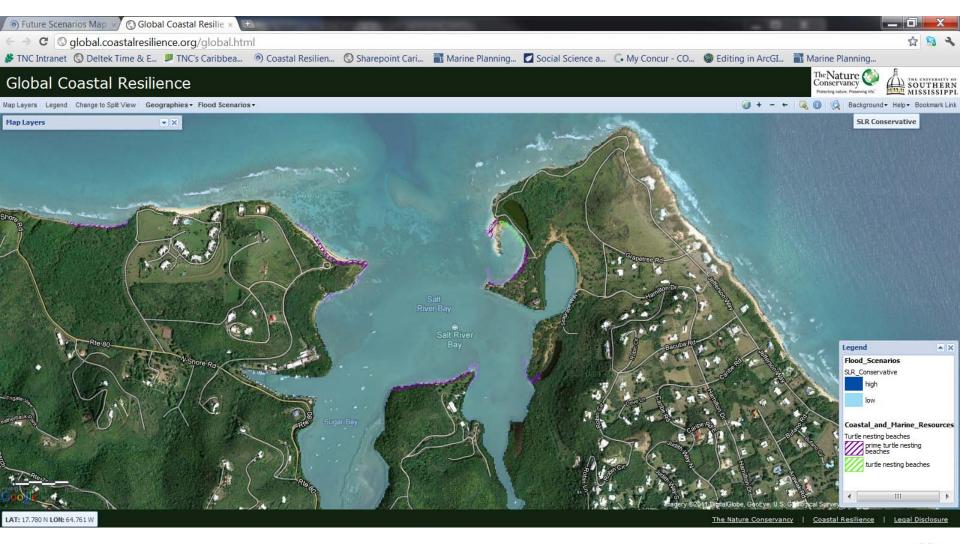




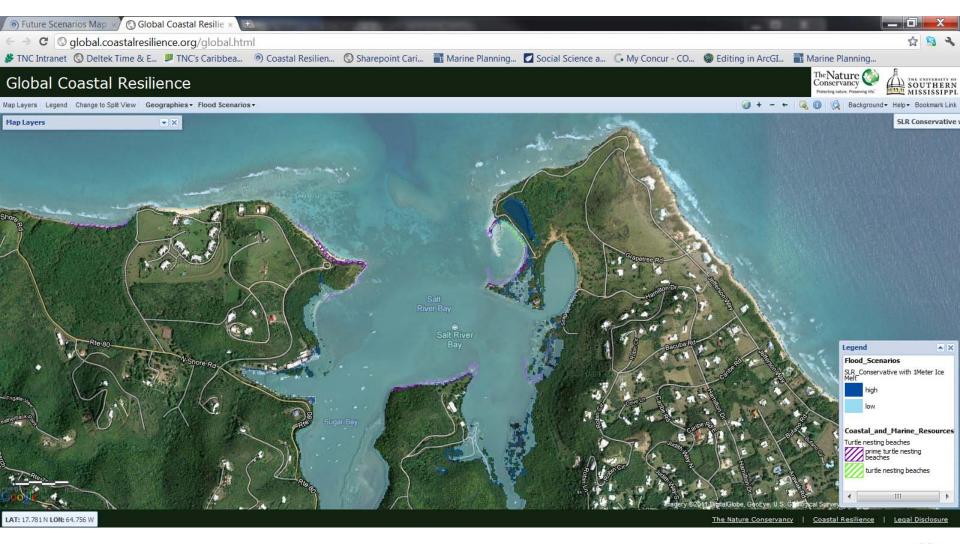




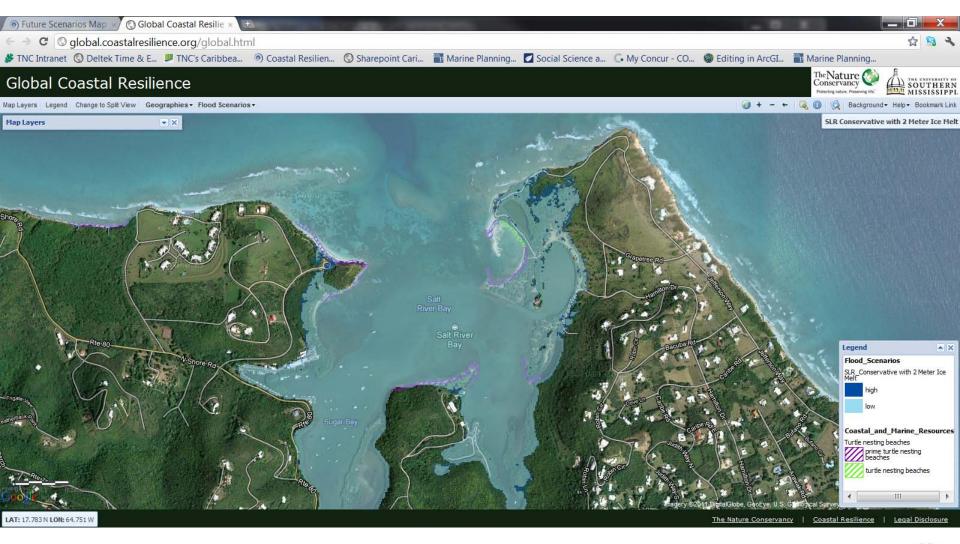




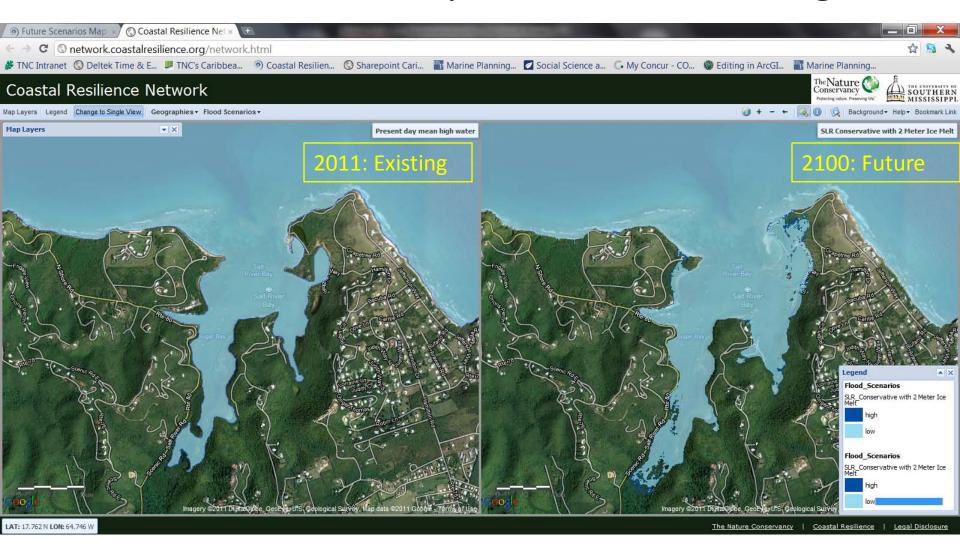




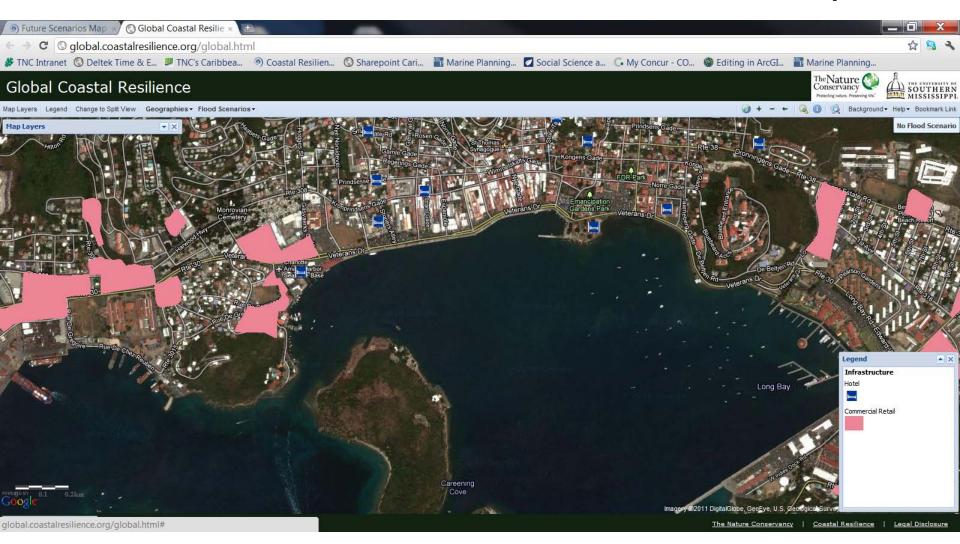




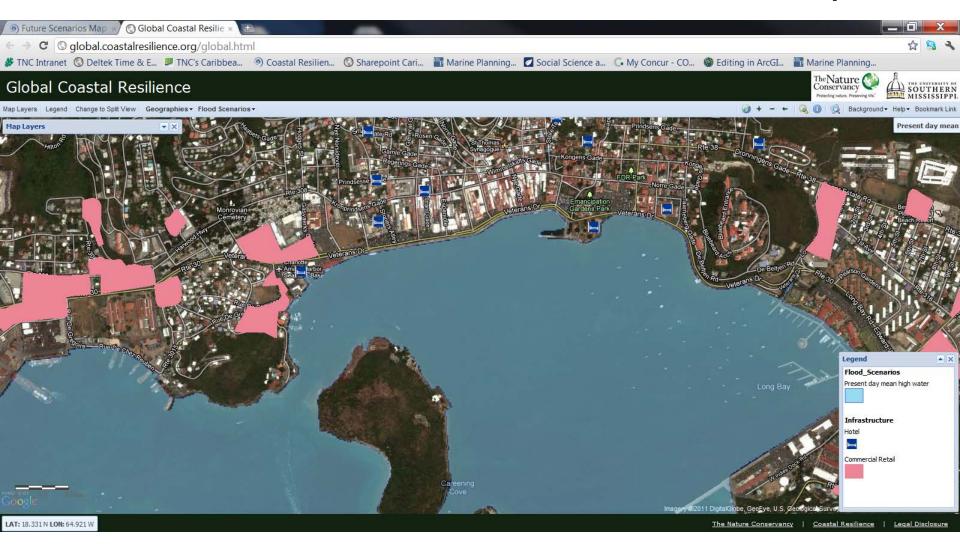




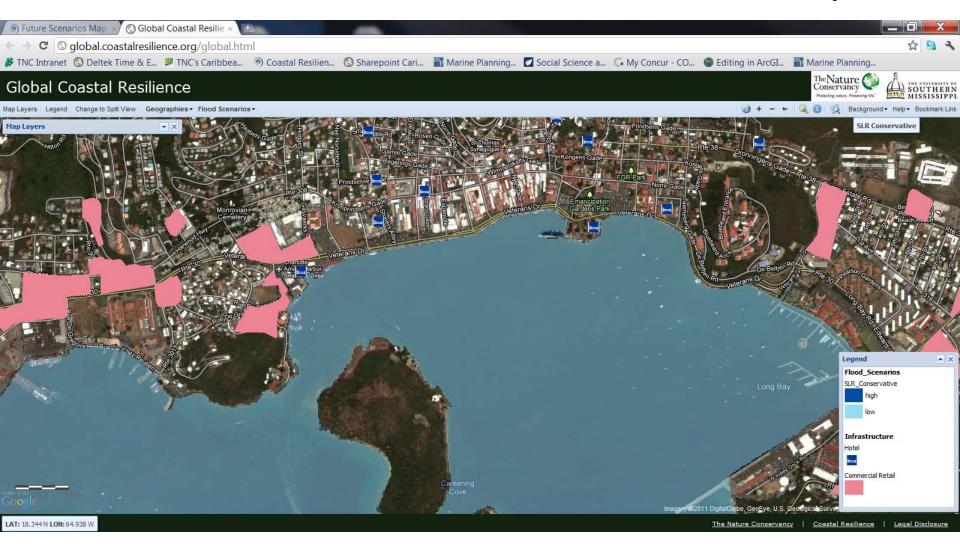




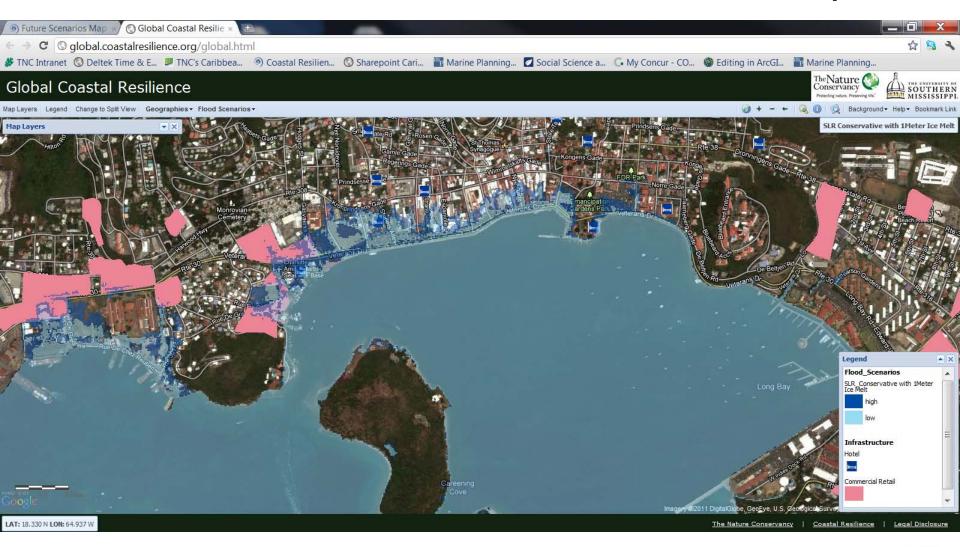




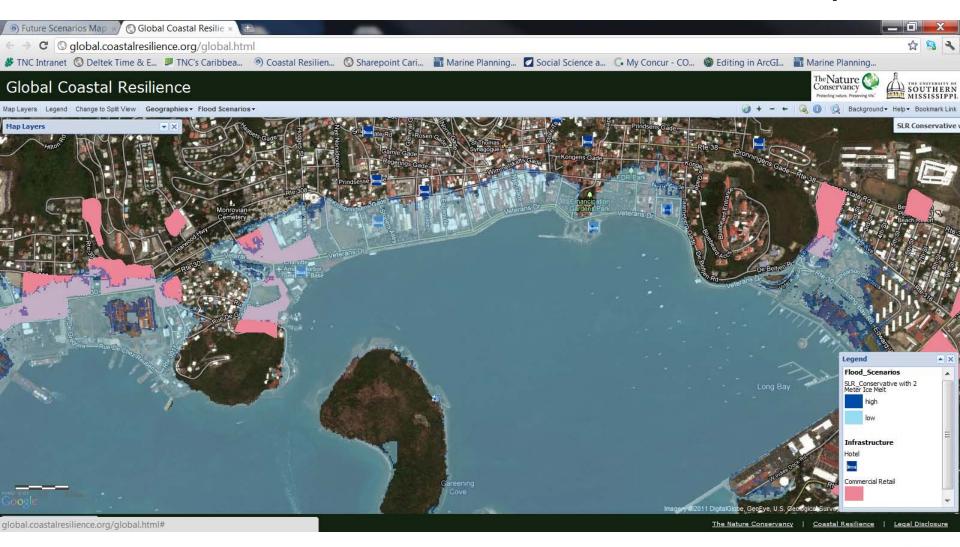






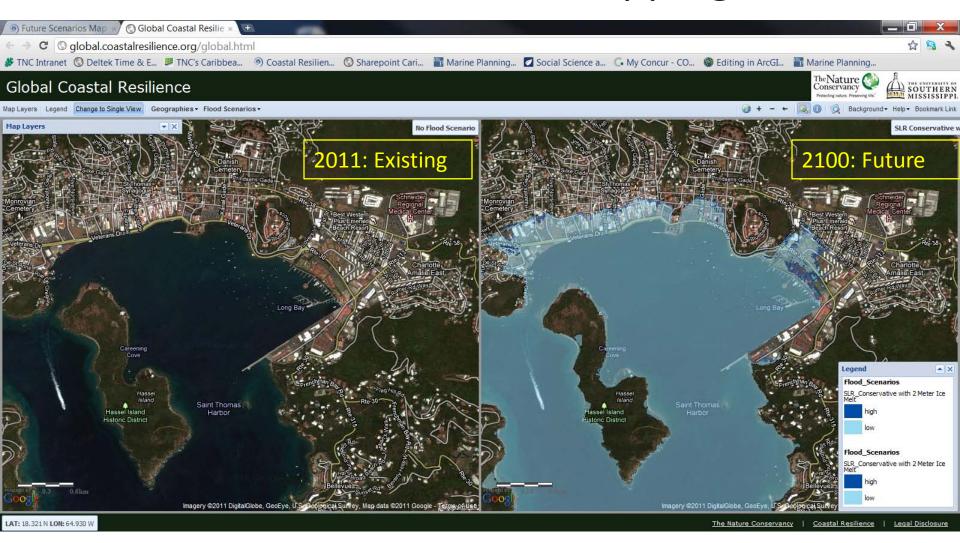








Future scenarios mapping





Role of Coastal Habitats



Coastal Resilience as a decision-support tool

1. Conserve what we have

2. Prepare for future change

- Dr. Katharine Hayhoe

