

Tampa Bay Climate Science Advisory Panel (TBCSAP)

Convened by UF/IFAS Extension, Florida Sea Grant

Location: Weedon Island Preserve, 1800 Weedon Drive, St. Petersburg, FL 33702

Meeting Date: December 16, 2014

The Tampa Bay Climate Science Advisory Panel is a scientific advisory board convening to support local governments in their efforts to plan for a changing climate.

Agenda Item #1. Other Local/Regional Efforts

One Bay Resilient Committee (facilitated by the Tampa Bay Regional Planning Council) has an upcoming meeting on October 3rd, 2014 from 10-12. They are currently meeting three times a year, but are four-to-six meetings in upcoming years. Maya Burke is the contact, maya@tbrpc.org.

Coastal Community Planning Course. The Charlotte Harbor National Estuary Program is hosting this two-day training with Tampa Bay and Sarasota Bay Estuary Programs to help our partners in their efforts to protect the natural environment of Florida and fulfill our respective management plans. This training is offered through the generosity of NOAA Coastal Services Center staff who are teaching the course and Sarasota County who is providing the facility. The training will be held Wednesday-Thursday, Dec. 3-4, 2014 at the Venice Community Center (326 Nokomis Ave S, Venice).

The Climate Council of Southwest Florida (Shafer Consulting) proposes to serve as an independent collaborative of natural and social science, engineering, health, policy, planning, legal and education experts. The group was recently proposed to the Science and Environment Council to form a larger regional effort surrounding Tampa Bay, Sarasota Bay, and Charlotte Harbor.

Patel College of Global Sustainability was one of the leaders of Resilient Tampa Bay. Patel is ramping up its climate change engagement. We will maintain close communication and collaboration as they move forward.

Agenda Item #2. Recent Mapping Efforts in Tampa Bay

Tampa Bay Regional Planning Council

Marshall Flynn, IT/GIS Director

- Mr. Flynn presented GIS modeling and mapping work conducted by the Tampa Bay Regional Planning Council for local planning efforts. The tools discussed are listed below. The application, strengths, and limitations of the various models were discussed.
 1. *Surge Inundation Model*
 2. *Surge Depth Model*
 3. *Basin Bathtub Water Rise Model*
 4. *Approximate Surge and Sea Level Rise Model*

5. *3D Visualization*

Agenda Item #3. Inundation Mapping and Sea Level Rise Scenarios

Key Points of Discussion

- How will we format our recommendations? Recommend increments of inundation mapping? Sea-level rise projection model? Sea-level rise projection ranges?
- Will different entities produce different maps (maybe using different models) to answer different questions?
 - SLAMM (Sea Level Affecting Marshes Model) shows the affects of climate change in two different habitats, those that are protected and those that are not protected.
- Should the maps be presented in feet or meters? The general decision was feet are better than meters.
- We need to start looking at storm intensity and frequency
 - Based on discussion, these are the issues are governments are dealing with today
 - Flooding is occurring at previously undocumented levels
 - Who is mapping and modeling these events? Is this a short-term or long-term trend?
 - Documenting these events can be helpful. National Weather Service can help to determine the link of flooding events to storm events in recent history.
 - We need to comprise a list of problem areas and frequency of storms
 - Planners want to use best available science. We need to help them gather that information.
- We have to incorporate sea-level rise into code with regulations now so it can be incorporated into project design. Sea-level rise will affect many regions/projects within their design life.
- Mapping discussion will be continued at the August meeting

Agenda #4. Future Meetings

- August 19, 2014 10am-12pm
- Weedon Island Preserve, 1800 Weedon Drive NE, St. Petersburg, FL 33702

For additional information:

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TBCSAP Member Attendees on 7/15/14:

Organization	Name
Facilitator - UF/IFAS Extension, Florida Sea Grant	Libby Carnahan
Florida Sea Grant	Thomas Ruppert Esq.
Hillsborough County	Margaret Rush
Manatee County	Robert Brown
Pasco County	Melissa Charbonneau
Pinellas County	Kelli Levy
Southwest Florida Water Management District	John Ferguson, P.G.
Tampa Bay Estuary Program	Lindsay Cross
Tampa Bay Regional Planning Council	Maya Burke
Tampa Bay Regional Planning Council	Brady Smith
Tampa Bay Water	Dr. Alison Adams, P.E.
The National Weather Service, Tampa Bay	Dr. Charlie Paxton
University of South Florida, Dept. of Geosciences	Dr. Mark Hafen
US Geological Survey	Dr. Nathaniel Plant

Guest Attendees on 7/15/14:

Organization	Name
Pinellas County Planning Department	Rodney Chatman
Pinellas County Planning Department	Marshall Flynn
Pinellas County Planning Department	Amy Laurie
Pinellas County Planning Department	Canar Zink