

## Meeting Summary

### Science & Technical Subcommittee Meeting Broward County Climate Change Action plan Update

June 11, 2015

4:30 – 6:30PM

Governmental Center, Room 430

Conference Line: 954 -357-5480

1. Welcome and introductions, the chair asked everyone to introduce themselves and discussed the type of research they are most interested in. Those present at the meeting were: Dorothy Sifuentes, Barry Heimlich, William Goetz, Samantha Danchuk, Todd Hiteshaw, Mike Zygnerski, Alejandro Riando, Nancy Craig, Maria Cahill (phone-in), and Cynthia Baker (phone-in). Someone new entered the room, need to get name.
2. The chair went through previous meeting summary and asked if missing anything, William Goetz noted he was present. The group went through the previous meeting summary as a reminder to previous discussions.
3. William Goetz mentioned he provided a list of funding opportunities on the Science & Tech group Google Drive.
4. On storm surge we need to know what the Division of Emergency Management is using, if they are still using "SLOSH." Discussion ensued. Some recommendations that came out of the discussion:
  - a. What are all the groups using to guide their planning, not just in the county but also neighboring counties for emergency catastrophic or storm surge events.
  - b. Also what are they doing, where is the money going?
  - c. Regional Planning Council and FEMA – Emergency Mgmt depends on the modeling from those orgs.
  - d. MM 1.3 and MM 1.2, the group will aim to clarify those actions
5. The chair guides the group to begin discussion on the actions the group did not get to in the first meeting, beginning with Water Resources actions. Discussion ensued.
  - a. WR-1.13 – county partners with various cities, the modeling now is starting to include adaptive planning. Bring in sustainability different uses of water, reduce consumption, retain and percolate the water, ensure citizens/public understand the water resources – **ACTION** Alejandro volunteered to follow up with the Intergovernmental Affairs & Communications subcommittee on an education action.

- b. WR-1.14 – Did complete the recalibration of the model. What are the specific needs to be predicted by the model? It has some predictive cases, mostly tried to address rates of withdrawal versus rates of recharge. SLR isn't as impactful as it is for Biscayne aquifer.
    - i. Is the aquifer recharged enough, as sea level rises will put stress on Biscayne aquifer and may cause more supply needed from the Floridan.
    - ii. Waste water injection, need to outline concerns for the county and itemize things that are currently being done.
  - c. WR -1.16 Follow up with water and wastewater division to suggest edits to the action as was reported as complete, but there is a need for continuous initiatives.
  - d. ZB-2.1 – require energy efficiency analysis on new buildings as part of building code. For residential could be more optional.
    - i. Evaluation of resilience in buildings and it gives it a rating, example in California. How could we develop a resilience criteria for permitting? Dr. Ricardo Alvarez, is an expert on this subject – how to harden buildings to withstand impacts from waves, maybe have him come to Built Environment subcommittee meeting. Maybe a topic for a climate change task force meeting.
    - ii. **ACTION** Research to look to see if other cities or communities are doing regional life cycle analysis pertaining to urban areas/built environment. Specific to the interaction of climate change and sea level rise. Alejandro Riando volunteered to look for water footprint.
    - iii. A technical need for an economic analysis to figure out the best strategies to move forward. BRACE area vulnerable to storm surge, from a public health standpoint. Urban development and how it changes, funds invested in 3D simulations flooding conveyance.
      - 1. Paper from coastal journal, to add that and BRACE data to google drive.
      - 2. Need someone with an economics background.
      - 3. Legislative changes that coastal management element of flood plain and strategies to remove properties from the flood plains; state policy passed amended the coastal management requirements for local governments. **ACTION** Maria Cahill will send a link to the bill.
  - e. ZB-2.2 – “KEEP AS IS” but call out some programs and partners such as Resilient Redesign, Shoreline Resilience Working Group with the Nature Conservancy
  - f. **ACTION** county staff to come up with list of current dedicated funding for modeling, mapping. And a summary of coastal modeling.
  - g. **ACTION** Add FAU SLR report (Barry worked on), Dania Beach was pilot, Maria Cahill to upload to Google Drive
6. What are some of the priorities? Each member over the next few weeks send in the top list of priority ideas and what they think the order should be ensuring the times are relevant to this committee and to climate change and how to mitigate or adapt. Group to email staff the list to compile.
  7. Are there any actions in the current plan that we could just omit?

- a. MM1.2 Modeling, 1.2, 1.3 Monitoring, somewhat similar – one for modeling, one for monitoring and delete MM 1.2 (have Mike review and update text)
  - b. With modeling and monitoring, funding needs to be a high priority
8. **ACTION** The committee should write down proposed recommendations for different types of modeling and monitoring and bring to the next meeting.
9. William Goetz sent out proposed recommendations, he would like the subcommittee members to consider before the next meeting and to set a methodology for setting priorities.

Meeting adjourned at 6:38PM.