

DRAFT MINUTES
TECHNICAL ADVISORY COMMITTEE TO THE BROWARD COUNTY WATER ADVISORY BOARD

Friday, August 18, 2023, 9:30 AM Hybrid Meeting via Zoom

A meeting of the Technical Advisory Committee (TAC) was held on August 18, 2023, commencing at 9:30 am in person at 115 S. Andrews Ave Room 430 and virtually on Zoom. (The TAC meeting minutes were summarized by Adrienne Aiken (aaiken@Broward.org or 954-519-1287). Copies of the presentations are filed with the supplemental papers of the meeting.)

Please note that discussion within the room was sometimes difficult to hear due to issues with microphones in the room.

Link to the recording:

Topic: June Broward County TAC Meeting

Meeting Recording: <https://broward->

[org.zoomgov.com/rec/share/PV9HDahM3ggIWUHFitzUNx7ks4WO9ghSOpv8C_MiQZvNjRMrXof0g3r7tC_qJMaE.zDrcOpib4qPNHJLQ](https://broward-)

I. Roll Call

Name	In Person	Virtual	Absent	Alternate Name
Kevin Hart (Chair)	X			
Randolph Brown Vice- Chair		X		
Albert Carbon	X			Chris Cappiello
Alan Garcia	X ALT			Susan Bodmann
Brett Butler		X		
Commissioner Doug Bell	X			Robert Goggin IV
David Walker			X	
Giovanni Batista		X		
Heather Cunniff			X	
Isabel Cosio Carballo			X	
Jace Selby			X	
Dr. Jennifer Jurado	X			
Jose Lopez		X		
Dawn Teetsal		X ALT		Deann Von Stetina
Lisa Milenkovic		X		Cindy Griffen
Mike Bailey			X	Paul Thompson
Patrick Davis	X			Janeen Wietgreffe
Pete Kwiatkowski		X		Lorraine Mayers
Rafael Frias	X ALT			Melissa Velez
Renuka Mohammed			X	Kiersy Pena Bratton
Stephanie Pearson			X	
Steve Holmes			X	
Jeff Jiang		X		First Meeting
Suzanne Mechler	X			Jon Goldman
Talal Abi-Karam	X			
Tim Welch		X		Carrie Kashar

II. Statement of Meeting Objectives

A meeting of the Technical Advisory Committee was held on August 18, 2023, commencing at 9:30 am in room 430 and on Zoom.

III. Public Comments

None Provided.

IV. **TAC Approval of Minutes of June 16, 2023

Motion: Randy Brown, 2nd Gio Batista Vote: Unanimous.

V. Announcements

None Provided.

VI. Presentations

- A. Using AI and Mobile Sensing to investigate the urban heat island effect at a neighborhood scale.

Dr. Hongbo Su, Associate Professor, Department of Civil, Engineering and Geomatics Engineering, Florida Atlantic University (FAU).

Dr. Su provided a presentation on artificial intelligence (AI) methods for investigating the urban heat island effect at the neighborhood scale. Dr. Su provided an overview of urban heat islands (UHIs), and outlined the critical social problems associated with them. The recent heat records broken in Florida were highlighted. Dr. Su outlined the causes of UHIs and reviewed various methods of studying them. Dr. Su presented FAU's proposed approach for urban heat assessment and mitigation. The benefits and limitations of the AI models used were highlighted, and various sensing techniques were described. It was reported that vegetation was found to be a major determinant in the location of Urban Heat Islands.

A series of questions and answers followed the presentation.

- B. **IWRP Grant Proposals

Dr. Gregory Mount, Assistant Chief Resilience Officer, Resilient Environment Department.

Dr. Mount provided an overview of the 2023 IWRP grant cycle. Dr. Mount shared that 5 applications were received including 1 for feasibility and design, and 4 for construction projects. Dr. Mount celebrated that previous feasibility and design grant awardees had transitioned into construction grant applicants. Dr. Mount provided an overview of each proposed project, reviewed the IWRP grant selection criteria, and outlined staff recommendations for the grant awards.

Following the presentation, a vote was taken to recommend approval of IWRP grant submissions and to move to the Water Advisory Board.

Motion: Patrick Davis 2nd: Suzanne Mechler Vote: Unanimous

A series of questions and answers followed the presentation and vote.

C. Resilience Planning Update

Dr. Jennifer Jurado, Deputy Director and Chief Resilience Officer, Resilient Environment Department

Dr. Jurado provided an overview of progress regarding the C&SF Study and outlined considerations for the scope of work. Dr. Jurado presented the milestone schedule and annual budget detail for the study. Dr. Jurado noted that the Army Corps of Engineers was hosting an Integrated Workshop on August 29th and invited TAC members to participate if interested. Dr. Jurado also invited TAC members to save the date for the Southeast Florida Climate Leadership Summit scheduled for November 16th and 17th. Opportunities to sponsor the summit were also announced. Dr. Jurado also shared that the annual Resilience Roundtable would be held on October 6th and provided an overview of the agenda. It was noted that staff was waiting to receive RSVPs from invited participants including elected officials and city managers and advised that municipalities were invited to provide one slide.

Dr. Jurado provided an overview of progress regarding the County-wide Resilience Plan, and noted that initial results had undergone stakeholder review, a preliminary heat analysis had been completed, and early results from a no action economic evaluation had been shared. Dr. Jurado outlined the critical asset analysis component of the Resilience Plan and described the method for deriving a risk factor for critical assets. Next steps for the Resilience Plan were detailed. Dr. Jurado then outlined some of the resilience grant opportunities being pursued either regionally or by Broward County including; the Climate Pollution Reduction Planning Grant, NOAA's Climate Resilience Challenge Grant, a South Florida Climate Resilience Tech Hub via the Economic Development Administration's Tech Hub Grants, and Resilient Florida grants.

No questions followed the presentation.

D. King Tide Season Kickoff

Dr. Rajendra Sishodia, Water Assessment Manager, Resilient Environment Department

Dr. Sishodia provided an overview of predictions for king tide season in Broward County. Dr. Sishodia shared that the king tide season was forecasted to be similar to that of 2022. A graph was presented which illustrated the change in annual high tide flood days. The discrepancy between NOAA's flood day threshold for Broward County and the actual/ observed threshold for a flood day in Broward County was discussed. Dr. Sishodia shared the Atlantic hurricane season outlook and outlined how record sea surface temperatures and El Niño factored in the predictions. The spatial distribution of rainfall in 2023 to-date was presented and 2023 precipitation patterns and aggregates were compared to historical rainfall in Broward County. TAC members were encouraged to use the County's crowdsourcing tool to document flooding in Broward.

A series of questions and answers followed the presentation.

VII. New Business

- a. **Ideas for Future Presentations**
- b. **Pat Davis discussed the proposed Florida Right to Clean Water amendment and the financial implications to utilities. Dr. Jurado noted that given the known challenges associated with the proposed amendment, the County was not prepared to support it.**
- c. **Dr. Mount announced that the Broward Leaders Water Academy would take place between September 29th – January 12th.**

VIII. Next scheduled TAC Meeting: October 20, 2023, 9:30 a.m.

IX. Next scheduled Joint WAB/TAC Meeting: September 08, 2023 10:00 a.m.

X. ADJOURN 11:19 a.m.