



## **Future Extreme Rainfall Projections Workshop Agenda**

Wednesday, April 27, 2022

9:00 AM to 12:00 PM

District Headquarters and via Communications Media Technology

[https://sfwmd.gov.zoom.us/webinar/register/WN\\_U3X7dzKSn-s3H8zUuVUXA](https://sfwmd.gov.zoom.us/webinar/register/WN_U3X7dzKSn-s3H8zUuVUXA)

### 1. Opening Remarks

**Drew Bartlett**, Executive Director, SFWMD

**Wesley R. Brooks, Ph.D.**, Chief Resilience Officer for the State of Florida

### 2. Resilient Florida Program and the Florida Flood Hub of Applied Research

**Thomas K. Frazer Ph.D.**, Dean, College of Marine Science, University of South Florida, and Director, Florida Flood Hub for Applied Research and Innovation

### 3. Extreme Rainfall as part of Flood Vulnerability Assessments

**Carolina Maran Ph.D., P.E.**, District Resiliency Officer, SFWMD

### 4. Development of Projected Depth-Duration-Frequency Curves (2050–89) for the South Florida Water Management District

**Michelle M. Irizarry-Ortiz, P.E., CC-P**, Hydrologist, USGS Caribbean-Florida Water Science Center

### 5. Q&A Session 01

### 6. Adopting Future Rainfall Change Factors as part of SFWMD Resiliency Planning Efforts

a. **Carolina Maran Ph.D., P.E.**, District Resiliency Officer, SFWMD

b. Incorporating Future Rainfall in SFWMD FPLOS Program  
**Akin Owosina, P.E.**, Bureau Chief, SFWMD

c. Data Application: Sensitivity Tests at the C-8 and C-9 Basins, using the Flood Protection Level of Service Integrated Hydrology and Hydraulics Modeling  
**Francisco Peña, Ph.D.**, Resiliency Project Manager, SFWMD

d. Data Accessibility: Resilience Metrics Hub  
**Nicole Cortez**, Resiliency Coordinator, SFWMD



7. Q&A Session 02

8. Break

9. Panel Discussion: Using Extreme Rainfall Projections to Plan for the Future

- a. Future Projected Intensity-Duration-Frequency (IDF) Curves for the Chesapeake Bay Watershed and Virginia  
**Krista Romita Grocholski, Ph.D.**, Physical Scientist, RAND Corporation
- b. Designing and Implementing Green Infrastructure Project with Consideration of Future Rainfall Projections Adopted in New York City  
**Alan Cohn**, Managing Director, Integrated Water Management, NYC Department of Environmental Protection
- c. Evaluating the Benefits and Costs of Green Stormwater Infrastructure in Pennsylvania's Negley Run Watershed  
**Jordan R. Fischbach Ph.D.**, Director of Planning and Policy Research, The Water Institute of the Gulf

10. Development of Future Climate Scenarios for Regional Hydrologic Simulations in South Florida and Statewide Florida Building Code Extreme Rainfall Results Comparison

**Jayantha T. Obeysekera Ph.D., P.E.**, Director, Sea Level Solutions Center, Florida International University

11. Next Steps – Statewide Regional Climate Projections

**Adam Blalock, J.D.**, Deputy Secretary, Ecosystem Restoration, Florida Department of Environmental Protection

**Tirusew Asefa Ph.D., Ph.D., P.E., D.WRE, F.ASCE**, Chair, Florida Water and Climate Alliance

12. Q&A Session 03

13. Public Comments

14. Closing Remarks

**Carolina Maran Ph.D., P.E.**, District Resiliency Officer, SFWMD

15. Adjourn