

# COUNCIL MEETING GUEST SPEAKER



**CAROLINA MARAN**  
PH.D., P.E.

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Division Director for Flood Control and Water Supply Planning; Chief of District Resiliency, South Florida Water Management District



**JENNIFER L. JURADO**  
PH.D.

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Chief Resilience Officer and Deputy Director, Public Works and Environmental Services Department, Broward County



**E. TIMOTHY GYSAN**  
P.E., PMP

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Chief, Ecosystems Projects Section and Resilience Coordinator, Ecosystems Branch, Programs & Project Management Division (PPMD) USACE Jacksonville District



## CAROLINA MARAN, PH.D., P.E.

Division Director for Flood Control and Water Supply Planning; Chief of District Resiliency, South Florida Water Management District

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As the Division Director for Flood Control and Water Supply Planning and Chief of District Resiliency at the South Florida Water Management District, Carolina Maran, Ph.D., P.E. provides executive leadership to one of the nation's most robust flood control, water supply, and resilience planning efforts. She oversees the advancement of critical flood infrastructure projects and comprehensive water supply planning that are essential to South Florida's economy, quality of life, and environment. Under her leadership, the District has elevated its resilience and infrastructure adaptation work to protect communities from flooding, ensure long-term water supply, and safeguard critical environmental resources. Through strategic partnerships and collaboration, cutting-edge science and tools, and data-driven solutions, Dr. Maran has spearheaded initiatives to adapt to extreme events, sea level rise, and other evolving conditions—all of which threaten the region's infrastructure and economy. Her responsibilities include executive oversight of planning efforts across multiple levels of government, integrating scientific research and risk-based analyses into planning and actionable projects, and developing and implementing robust adaptation strategies. These responsibilities directly support the region's ability to mitigate flood risks, enhance water management systems, and safeguard water supply and the environment, ensuring that South Florida remains a thriving and sustainable place to live, work, and invest. Carolina has 25 years of experience working on water and climate resiliency; flood risk management, water supply and water resources planning, management and regulation; hydrologic and hydraulic modeling, decision support systems and GIS; water allocation rules and conflict resolution. Prior to joining SFWMD, Carolina was the Water Manager at Broward County, worked over 10 years as a Water Resources Specialist for the Federal Water Agency in Brazil, and collaborated with international organizations as part of technical consulting teams. She holds a Ph.D. in Civil and Environmental Engineering – Water Resources from Colorado State University (earned as a Fulbright Scholar) and a Master's Degree in Water Resources Engineering from Parana Federal University in Brazil. Currently, she serves on the Florida Water and Climate Alliance Steering Committee, Southeast Florida Regional Climate Compact Steering Committee, and on the Board of Directors of South Florida Hydrologic Society. Mom of two incredible boys, Carolina enjoys watching them play baseball and visiting new places with family.





## JENNIFER L. JURADO, PH.D.

Chief Resilience Officer and Deputy Director,  
Public Works and Environmental Services  
Department, Broward County

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Dr. Jennifer Jurado is responsible for leading climate resilience and environmental planning initiatives for Broward County, Florida. Areas of particular focus include sea level rise adaptation, sustainable water resource management, shoreline protection, coastal resource conservation, and clean energy projects.

She works extensively with internal and regional stakeholders to advance county-wide resilience planning informed by future conditions scenarios and fosters public-private partnerships key to large-scale initiatives. Current efforts involve advancement of a county-wide resilience plan focused on infrastructure improvements, redevelopment strategies, and robust economic analysis. Dr. Jurado has been a participant in the four-county Southeast Florida Regional Climate Change Compact since its formation in 2009.

Dr. Jurado earned her Ph.D. from the University of Miami in Marine Biology and Fisheries.





## E. TIMOTHY GYSAN, P.E., PMP

Chief, Ecosystems Projects Section and Resilience Coordinator, Ecosystems Branch, Programs & Project Management Division (PPMD) USACE Jacksonville District

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Mr. Gysan P.E., PMP is the Resilience Senior Project Manager for the Ecosystems Projects Branch, Jacksonville District, US Army Corps of Engineers. He currently serves as the project manager for the Lake Okeechobee System Operating Manual (LOSOM), C&SF Flood Resiliency (Section 216) Study, the Kissimmee River Restoration, and the Interagency Modeling Center, which supports

modeling for the South Florida Ecosystem Restoration program. Mr. Gysan previously spent sixteen years as a hydraulic engineer in the Jacksonville District Engineering Division, Water Resources Engineering Branch supporting projects including the Kissimmee River Restoration and the NRCS Agricultural Conservation Easement Program.

Mr. Gysan graduated from the University of Florida in 1997 with a degree in Environmental Engineering and received his Master's degree in Environmental Engineering specializing in Systems Ecology in 2000. He is a Registered Professional Engineer in the state of Florida and holds a Project Management Professional (PMP) certification. Mr. Gysan is an active member of Society of American Military Engineers Jacksonville Post and was selected as Post Engineer of the Year in 2012 and Junior Engineer of the Year 2007-2008. Mr. Gysan is married and has three children. He and his family reside in St. Johns, Florida.