

# FloridaWCA WORKSHOP

March 30, 2016  
Orlando, Florida



## Participating Partners:

Gainesville Regional Utilities  
Miami-Dade Water and Sewer  
Department  
Orlando Utilities Commission  
Palm Beach County Water Utilities  
Peace River Manasota Regional Water  
Supply Authority  
Tampa Bay Water  
Saint Johns River WMD  
South Florida WMD  
Southwest Florida SWFWMD  
University of Florida Water Institute  
Florida Climate Institute  
Florida State University, COAPS  
South East Climate Consortium  
UF/IFAS Center for Public Issues  
Education

Contributing  
Partners:



# GOALS

- ❑ Increasing regional relevance and usability of climate science, data, models, and tools for water suppliers and resource managers
- ❑ Use of climate science data/tools to support decision-making for water resource management, planning and supply operations in Florida

# **INTRODUCTIONS**

Does the statement resonate with you?

Do you know of any examples?

What does this statement mean to you in your professional life?

# COLLABORATE

- ❑ Water managers specify kinds of climate information, outlooks, and projections they need
- ❑ Climate professionals are interested in the factors affecting management of water systems
- ❑ Climate scientists gain insights from water managers on needs for additional research

# Needs



## UTILITIES NEED

- Reliable predictive tools (emphasis on accuracy)
  - 3–12 months = operations
  - 20 years = permitting
  - 20–50 years = capital planning
  - Policies/regulations that are suited / unique to each region
- Effect of climate patterns (e.g. ENSO) on regional weather.
- Regional trends in temperature, precipitation, and streamflows
- Regional variability in historic streamflows among river basins
- (exceedance probabilities)

## WMD NEED

- To Understand Utility needs
- Regulations that recognize climate

## ACADEMICS NEED

- Direction/focus
- Help from stakeholders in understanding problem, time and space scales

# FOCUS ON....

- ❑ Improved availability and utility of climate information and natural variability

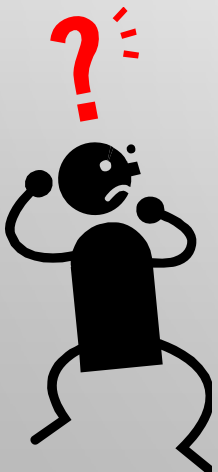
Does the science/tool address your water management issue? Will they help you do what you need to do better?



# FOCUS ON.....

- Improved communication of climate forecast methodology and skill

How do you receive information about models being used? Does the model inform your management issues? Do you know the underlying assumptions and uncertainties? How confident are you in the information being provided from the model output?





Florida Water and Climate Alliance (FWCA) increasing the relevance of climate science data for water resource management, planning and supply operations in Florida.

**FloridaWCA Workshop**  
Wednesday, March 30<sup>th</sup>, 2016, 8:45 – 4:00  
Orlando Utilities Commission (OUC)  
6003 E. Pershing Avenue, Orlando, 32822 \* (see directions overleaf)

**Workshop Goal:** Provide a shared learning environment for water utility and resource managers and scientists to increase the practicality of climate models, data and tools in the planning and operations of FL public water supply utilities.

**Specific Workshop Objectives**

1. Stakeholder-scientist exchange on current research, tools and issues of relevance to water resource management and supply operations
2. Explore communication and application of research outcomes to FloridaWCA stakeholders
3. Sustain the FloridaWCA environment for shared information, learning and networking

8:45 Check in and Networking

9:00 – 10:00 **Session 1: FloridaWCA Learning Network**

- o Welcome and introductions
- o FWCA Stakeholder-scientist collaborative network – what’s unique, where we are, what’s new, w next? (Steering Committee)

10:00 – 11:00 **Session 2: Commonality of hydrologic models across time scales**

- o Introduction to speaker, topic and what it means to FloridaWCA (Chris Martinez)
- o Presentation: “Commonality of hydrologic models across time scales,” Dingbao Wang, Assistant Professor, Department of Civil, Environmental and Construction Engineering, University of Central Florida
- o Discussion - What it all means to FloridaWCA participants and what next?

11:00 – 11:15 BREAK

11:15 – 12:15 **Session 3: Current State of the Weather–ENSO forecast**

- o Introduction to speaker, topic and what it means to FloridaWCA (Chris Martinez)
- o Presentation: “Issues with the current ENSO forecast, interpreting it, and how to use it,” Ben Kirtu Professor, Department of Atmospheric Sciences, Director of Cooperative Institute for Marine & Atmospheric Studies, and Director of Center for Computational Science Climate and Environmental Hazards Program, University of Miami
- o Discussion - What it all means to FloridaWCA participants and what next?

12:15– 1:15 LUNCH

1:15 – 2:30 **Session 4: Central Florida Water Initiative**

- o Introduction to speaker, topic and what it means to FloridaWCA (Kevin Morris)
- o Presentation: - “Central Florida Water Initiative: The Next 5 years!” John Shearer, P.E., Shearer Consulting, Inc.
- o Discussion - What it all means to FloridaWCA participants and what next?

2:30 – 2:45 BREAK

2:45 – 4:00 **Session 5: Increasing relevance and use of climate science from the user perspective**

- o Communicating scientific information and its relevance to management situations (Tracy Irani)
- o Discussion - reshaping programs and activities to reflect participants’ current or projected interests/issues
  - Current activities- workshops, website, webinars, outreach
  - Generating new ideas and pinpointing new opportunities

4:00 FloridaWCA Steering Committee – Business meeting (open)

\* Directions: The OUC Pershing Avenue Office is **NOT THE DOWNTOWN LOCATION**. It is located in southeast Orlando.

**Orlando Utilities Commission,  
6003 E. Pershing Avenue,  
Orlando, Florida 32822- [Get Directions](#)**

From the parking lot, facing the OUC buildings,  
the building you will want to go to is on your left.  
You will need to pass security upon entry.

The FloridaWCA, established in 2010, includes participants from the UF Water Institute, Southeast Climate Consortium (SECC), the Florida Climate Institute (FCI), UF/IFAS Center for Public Issues Education, six major public water supply utilities, representatives of local governments and three water management districts.

Steering Committee: Tirusew Asefa (TBW), Kevin Morris (PRMRWSA), Rob Teegarden (OUC), Sherry Brandt-Williams (SJRWMD), Vasu Misra (FSU), Tracy Irani (UF) and Chris Martinez (UF); Workshop Coordinator – Lisette Staal (UF Water Institute)



# FloridaWCA



## Steering Committee

Tirusew Asefa (TBW) Co-chair  
Chris Martinez (UF) Co-chair  
Kevin Morris (PRMRWSA),  
Rob Teegarden (OUC),  
Sherry Brandt-Williams  
(SJRWMD),  
Vasu Misra (FSU),  
Tracy Irani (UF)

## Activities

- Workshops
- Website
- Webinars,
- Outreach and Communication
- Proposals/Research
- Sustainability

A large, faint graphic in the background consisting of a central circle with several smaller circles around it, all connected by thin lines, resembling a network or a molecular structure. The text "Stakeholder-Scientist Learning Network" is overlaid on this graphic in a light, semi-transparent font.

Stakeholder-  
Scientist  
Learning Network

Stakeholder  
Scientist  
Learning Network

**EXTRA SLIDES---**

# COMMUNICATING

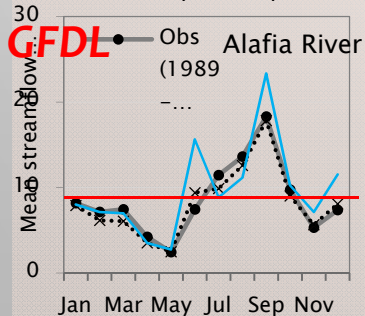
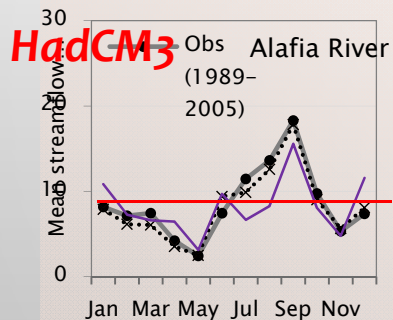
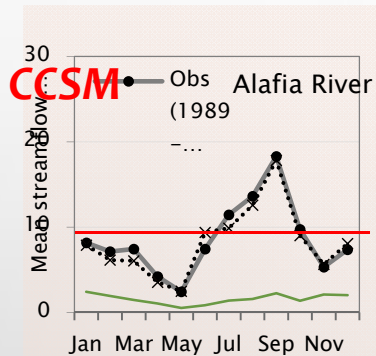
**Table I. Developmental Stages in Risk Management (Ontogeny Recapitulates Phylogeny)**

- 
- All we have to do is get the numbers right
  - All we have to do is tell them the numbers
  - All we have to do is explain what we mean by the numbers
  - All we have to do is show them that they've accepted similar risks in the past
  - All we have to do is show them that it's a good deal for them
  - All we have to do is treat them nice
  - All we have to do is make them partners
  - All of the above
-

# FOCUS ON.....

- ❑ Improved communication of climate forecast methodology and skill

Future simulation results



- 
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