

# Using District GIS Resources for Hydrologic Monitoring

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Yao Yan and Diane Smith  
Water Quality Assessment Division, ERA

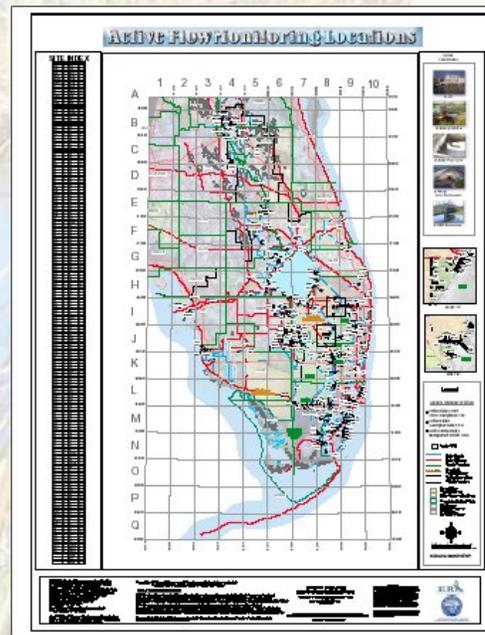
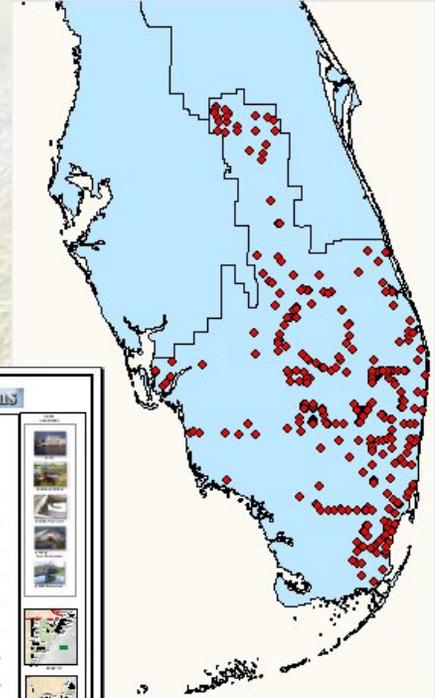


February 24, 2005



# Easy Web access to Data and Maps

- Flow
- Groundwater Well
- Stage
- Rain
- Water Quality
- Weather



# **Active Monitoring Locations**

Active Data Collection is defined as

- within last 365 days at SFWMD sites
- within last 730 days at other sites

e.g. USGS or USACE

Inactive (Historic) sites not included

# Data Extraction and QA

- *DBHydro* is the SFWMD  
Corporate Environmental Database
- Monitoring Location Coordinates  
extracted monthly into GIS files
- GIS staff review GIS database & files
- Field personnel & GIS staff review  
maps derived from the data

A landscape photograph of a wetland. The foreground is dominated by tall, golden-brown grasses. In the middle ground, there is a body of water reflecting the sky. The background shows a flat, open plain under a clear, light blue sky. The word "Maps" is overlaid in the center of the image.

# Maps

# Monitoring Maps via Internet

<http://www.sfwmd.gov>

Click:

- Data & Documents
- GIS/Maps
- Hydrologic & Meteorologic  
Monitoring Station Locations

View and/or Download PDF Maps



*The invariable mark of wisdom  
is to see the miraculous in the common.*

*Ralph Waldo Emerson*

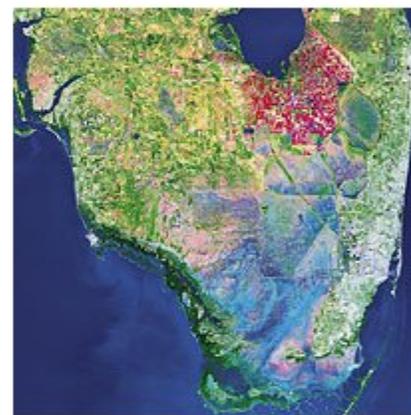
- Home
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- Data & Documents
  - » Environmental Database (DBHYDRO)
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  - » **GIS/Maps**
  - » Local Government Assistance
  - » Real Time Data
  - » Reports & Plans
  - » Scientific & Technical Pubs
  - » Simulation Modeling
- Weather & Water Conditions
- Who to Contact

### GIS / Maps

Geographic Information Systems (GIS) provide a visual and spatial perspective of data about water resource systems. GIS can be interactive, and may include satellite pictures.

### GIS Related Links

- [SFWMD Arc Hydro Geodatabase Project](#)
- [SFWMD GIS Data\\*](#) \*Requires high-end Browser - NS v6.0 or IE v5.0 and up
- [Digital Orthophoto Imagery \(GIS maps\)](#)
- [DBHYDRO Browser](#) (online database with historical and current environmental data)
- [Water Quality Monitoring web site](#)
- [Hydrologic & Meteorologic Monitoring Station Locations](#)
- [Regional Real Time Data](#)



February 10, 2005

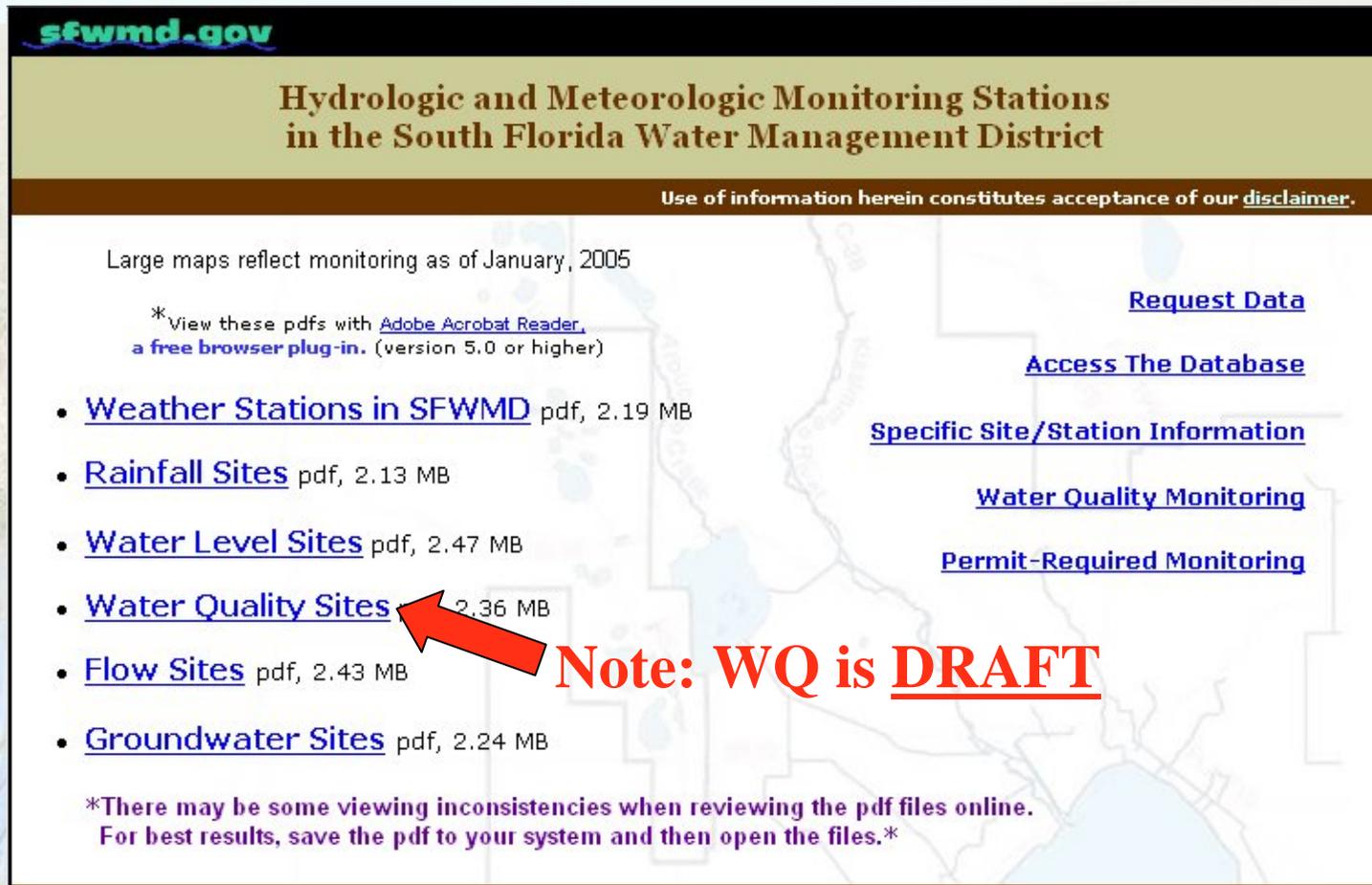
#### Emergency Status

**Current Situation:** The District is responding & recovering from Hurricane Jeanne [more >](#)

South Florida Environmental Scientific & Technical Reporting on the



<http://www.sfwmd.gov/curre/sitemaps/mapsindex.htm>



**sfwmd.gov**

## Hydrologic and Meteorologic Monitoring Stations in the South Florida Water Management District

Use of information herein constitutes acceptance of our [disclaimer](#).

Large maps reflect monitoring as of January, 2005

\*View these pdfs with [Adobe Acrobat Reader](#),  
a **free browser plug-in**. (version 5.0 or higher)

- [Weather Stations in SFWMD](#) pdf, 2.19 MB
- [Rainfall Sites](#) pdf, 2.13 MB
- [Water Level Sites](#) pdf, 2.47 MB
- [Water Quality Sites](#) pdf, 2.36 MB
- [Flow Sites](#) pdf, 2.43 MB
- [Groundwater Sites](#) pdf, 2.24 MB

**Note: WQ is DRAFT**

[Request Data](#)

[Access The Database](#)

[Specific Site/Station Information](#)

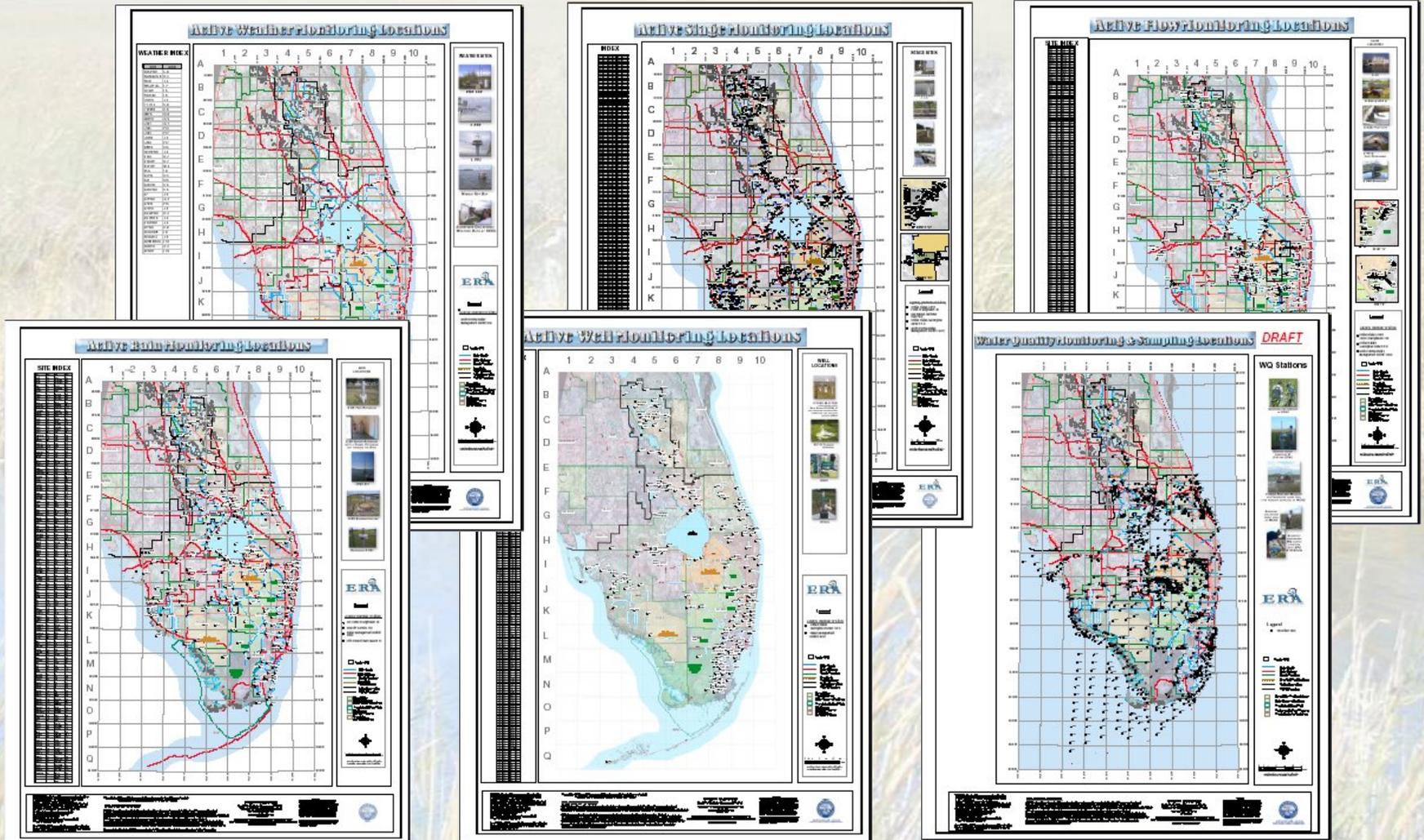
[Water Quality Monitoring](#)

[Permit-Required Monitoring](#)

\*There may be some viewing inconsistencies when reviewing the pdf files online.  
For best results, save the pdf to your system and then open the files.\*

Left-Click to View or Right-Click to Download

# Monitoring Maps Updated Monthly

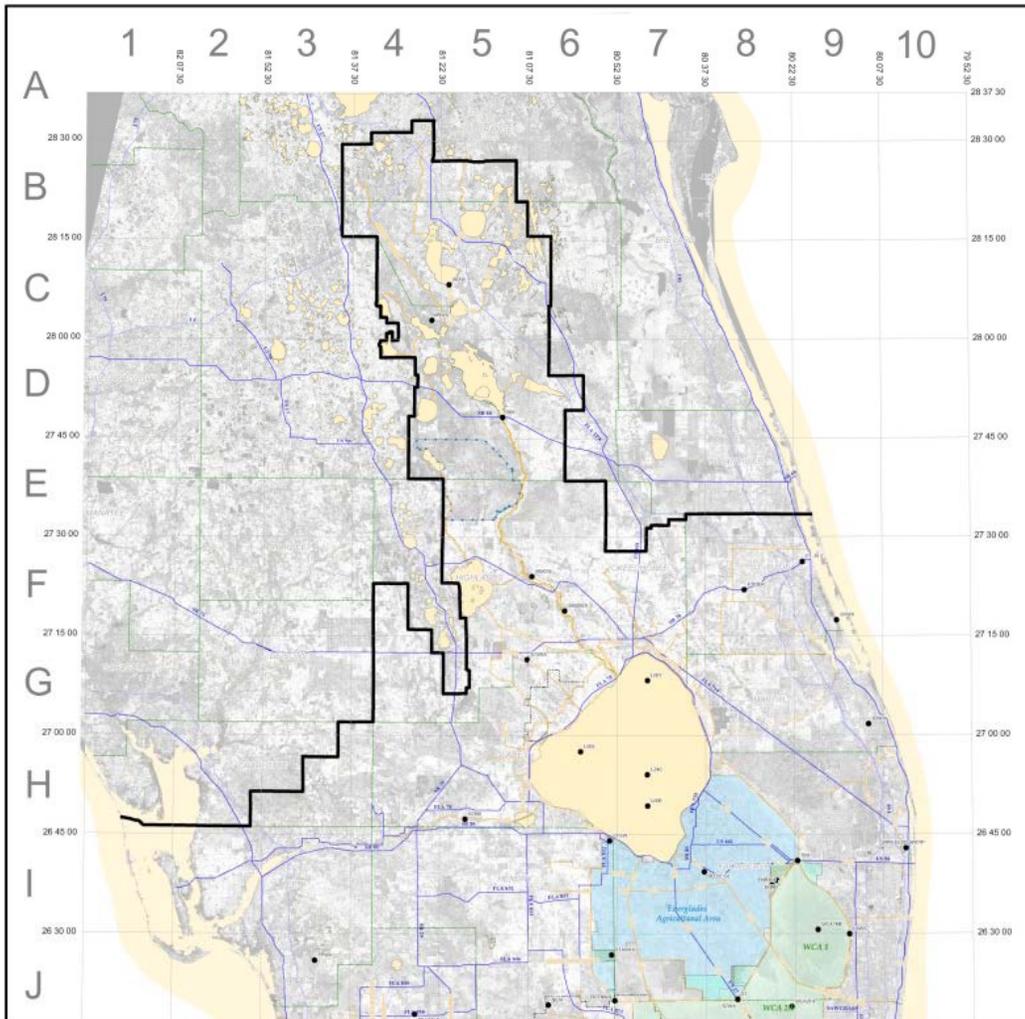


# Monitoring Map Close-up

## Active Weather Monitoring Locations

### WEATHER INDEX

SITE	GRID
3AS3WX	L 9
BCBNAPLE	K 3
BCSI	J 6
BELLE GL	I 7
CFSW	I 6
ENR308	I 8
FPWX	J 3
FT. PI 2	F 9
FTPIER	F 8
JBTS	O 8
JDWX	G 9
L001	G 7
L005	H 6
L006	H 7
LXWS	J 9
LZ40	H 7
MBTS	N 8
ROTNWX	J 6
S140	K 7
S140W	K 7
S331W	M 8
SSA	I 9
S61W	C 5
S65	D 5
S65CW	F 6
S65DWX	F 6
S7	J 8
S75WX	G 5
S78W	H 5
S7WX	J 8
SGGEWX	K 4
SILVER S	J 4
STA5WX	J 6
SWWX	F 9
WCA1ME	I 9
WCA2F4	J 8
WPB.EEDD	I 10
WRWX	C 4
WWTP	I 10



### WEATHER SITES



**ENR 108**



**L 240**



**L 001**



**MIDDLE KEY BAY**



**SCIENTISTS COLLECTING WEATHER DATA AT S65C**

A landscape photograph featuring a body of water in the foreground, surrounded by tall, golden-brown grasses. The background shows a flat, open plain under a clear sky. The word "Data" is overlaid in the center in a bold, black, serif font.

**Data**

# GIS Point Locations via Internet

<http://www.sfwmd.gov>

Click:

- Data & Documents
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- SFWMD GIS Data
- Download Data via Data Catalog

Keyword Search: *Active Monitoring*

Save ZIP Files and Extract Locally



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February 10, 2005

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**Current Situation:** The District is responding & recovering from Hurricane Jeanne [more >](#)

**South Florida Environmental** Scientific & Technical Reporting on the

Active Monitoring

Search

10

records per page

## GIS Data Catalog

5 rows found

- [Column Preferences](#)

Title ▼ ▲	Click for Description ←	File Size (MB) ▼ ▲	File Name ▼ ▲	Click to Download ←
<a href="#">DBHydro Flow Monitoring Site</a>		0.032	<a href="#">Download hysurfm.zip</a>	
<a href="#">DBHydro Groundwater Monitoring Site</a>		0.031	<a href="#">Download hysubstm.zip</a>	
<a href="#">DBHydro Rainfall Monitoring Site</a>		0.023	<a href="#">Download clpcprms.zip</a>	
<a href="#">DBHydro Stage Monitoring Site</a>		0.047	<a href="#">Download hysurstm.zip</a>	
<a href="#">DBHydro Weather Monitor Site</a>		0.0285	<a href="#">Download clweamon.zip</a>	

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# Need Assistance???

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[dbello@sfwmd.gov](mailto:dbello@sfwmd.gov)

# Questions?

