



SOUTH FLORIDA WATER MANAGEMENT DISTRICT



***GEER 2025  
Data Management for  
Collaboration  
Darlene Marley  
South Florida Water Management District***

***April 21, 2025***





# Data Management Tools?

- Crystal balls
- Magic wands
- Mind reading abilities



# Collaboration (The 3 Pillars)

- Connectivity – High Speed Internet
- Cyber Security – Controlled Access, HTTPs
- Digital Inclusion – Technical Holistic Solutions  
( DataOne )



# Ecoinformatics

## **What is ecoinformatics?**

**Ecoinformatics is the science of information in Ecology and Environmental Science.**

A photograph of three birds, likely pelicans, flying over a body of water. The birds are silhouetted against the water's surface, which shows gentle ripples.

**It is the "study of the inherent structure of ecological information in order to create and apply computer technology for its management and analysis.**

**Specifically, it is the science of developing computer databases and algorithms to facilitate and expedite large scale ecological research."**

**[seek.ecoinformatics.org](http://seek.ecoinformatics.org)**

Photo: Callie Bowdish

# DataONE

DataONE.org






# DataONE

[cerp-sfwmd.DataONE.org](http://cerp-sfwmd.DataONE.org)

A screenshot of a web browser displaying the search interface for cerp-sfwmd.DataONE.org. The browser's address bar shows the URL. A notification banner at the top indicates that Google Chrome is not the default browser. The website's header includes the CERP logo and navigation links for "Search Data", "Submit Data", "Data Summary", and "Sign In". The main content area features a "Find Data" section with a search input field containing the text "Example: invasive species" and a blue search button with a magnifying glass icon. The footer contains contact information and a note that the site is powered by DataONE Hosted Repositories.

“Google Search”



# DataONE Packages

- Metadata – creation guide available (BMPs)
  - Title
  - Abstract
  - Keywords
  - People
  - Temporal coverage
  - Geographic coverage
  - Taxa
  - Methods



# DataONE Packages Continued

- Data Sets
  - Files
  - GDBs
  - Zipped Directories
  - Photos, videos, audio files
  - Links to data management systems



# DataONE Packages Continued

- Assessments and Analysis
  - Reports
  - Presentations
  - Posters
  - Publications
  - Links



# Private vs Public

- Public Metadata, private data
- Private to Collaborative team
- Starts out private or collaborative; eventually become public (published)



# Public vs Private

South Florida Water Management District

Search Data Submit Data Data Summary Sign In

Search

Sort by Most recent Hide Map

Datasets 1 to 4 of 4

- Michael Breslin, & DeeAnna Francisco. (2025). **Operational Monitoring Plans WQM**. South Florida Water Management District (SFWMD). [umr:umid:5c5f16c-a0bb-4e61-bd72-8431652b10c2](#). 5
- Theresa Strazisar, Steve Krupa, Fred Sklar, Kurt Saari, & Matahel Ansar. (2024). **GEMM - Groundwater Exchange Monitoring and Modeling**. South Florida Water Management District (SFWMD). [umr:umid:c537216-80c2-4089-8433-1f16ed59a11](#). 72
- Michael Breslin. (2024). **Compliance Monitoring Plans for WQM**. South Florida Water Management District (SFWMD). [umr:umid:2a3337c7-5ea4-4e9b-921b-855a01138f45](#). 3
- Michael Breslin, & James Brown. (2024). **BGA Training**. South Florida Water Management District (SFWMD). [umr:umid:3fba368-2c07-464a-9745-1c795d5a399a](#). 6 141

Filter by:

- Project
- Data attribute
- Data files
- Creator
- Year
- Identifier
- Taxon
- Location
- Access

Map showing Florida with two highlighted locations: 1 (Tampa area) and 2 (Miami area).

Contact: [dmarley@sfwmd.gov](mailto:dmarley@sfwmd.gov) Powered by DataE Hosted Repositories

South Florida Water Management District

Search Data Submit Data Data Summary Darlene

Search

Sort by Most recent Hide Map

Datasets 1 to 25 of 312

1 2 3 ... 13 Next

- Thomas Behlmer. (2025). **Surveying Estuary Responses to Freshwater Inflows (SERFIS)**. South Florida Water Management District (SFWMD). [umr:umid:b077eda8-87e5-46ca-9d09-974d2a077b11](#).
- Michael Breslin, & DeeAnna Francisco. (2025). **Operational Monitoring Plans WQM**. South Florida Water Management District (SFWMD). [umr:umid:5c5f16c-a0bb-4e61-bd72-8431652b10c2](#). 3
- Malak Ali, Lori Wenkert-Lane, & Jacob Landfield. (2025). **AguaCulture Northern Everglades Watersheds Water Retention And Nutrient Load Reduction Projects**. South Florida Water Management District (SFWMD). [umr:umid:e0805aa-75b5-4383-994a-a3105819e13c](#).
- Malak Ali, & Orlando Diaz. (2025). **Sustainable Landscape and Treatment in a Stormwater Treatment Area Study**. South Florida Water Management District (SFWMD). [umr:umid:1f22b656-fc35-4091-a716-e10c3b67480](#).
- Malak Ali, & Orlando Diaz. (2025). **Phosphorus Dynamics in the STAS: Evaluation of Biogeochemical Factors and Processes**. South Florida Water Management District (SFWMD). [umr:umid:953822ea-55f8-4d7b-8733-0c78255b07a1](#).
- Malak Ali, & Odi Villapando. (2025). **Baseline Soil Sampling in A-2 STA, C-139 FEB, and STA-1W Expansion #2**. South Florida Water Management District (SFWMD). [umr:umid:9b301928-e16d-4bd5-b7f3-b16a6d219946](#).
- Darlene Marley. (2025). **ERDP - Everglades Research Database Production, 1994-present**. South Florida Water Management District (SFWMD). [umr:umid:5488ec7d-a68b-4161-8d17-116ff63465f](#).

Filter by:

- Project
- Data attribute
- Data files
- Creator
- Year
- Identifier
- Taxon
- Location
- Access

Map showing Florida with 15 highlighted locations: 1 (Tampa), 2 (Orlando), 3 (Tampa), 4 (Orlando), 7 (Miami), 12 (Miami), 14 (Tampa), 15 (Tampa).

Contact: [dmarley@sfwmd.gov](mailto:dmarley@sfwmd.gov) Powered by DataE Hosted Repositories



# Inside a Package

Browser address bar: <https://sfwmd.dataone.org/view/urn%3Auuid%3Ac5c97216-d8cc-4b89-8433-1f4e8ed59a11>

South Florida Water Management District | Search Data | Submit Data | Data Summary | Sign In

< Back to search | Home / Search / Metadata

**DATASET** | PUBLISHED 2024 | urn:uuid:c5c97216-d8cc-4b89-8433-1f4e8ed59a11

## GEMM - Groundwater Exchange Monitoring and Modeling

Theresa Strazisar, Steve Krupa, Fred Sklar, Kurt Saari, and Matahel Ansar

Downloads: 0 | Citations: 0 | Views: 72 | Cite this dataset | Assessment report

Files in this dataset Package: resource\_map\_urn:uuid:b062371c-09df-48b1-9442-1d0b86ff4018

Files and Folders	Size	Type	Metrics	Actions
▼ GEMM - Groundwater Exchange Monitoring and Modeling				
Metadata: GEMM_Groundwater_Exchange_Monitoring_and.xml	19 KIB	EML v2.2.0	9	📄 🔄
FBgraphic.jpg	75 KIB	image/jpeg		📄 🔄
GEMM presentation by FIU (deliverable 1.4)-20221214_Meeting Recording.zip	304 MiB	octet stream (application file)		📄 🔄
DBdatasets.txt	253 B	plain text (.txt)		📄 🔄
GEMM_Final_Plan_05-26-2021.pdf	8 MiB	PDF		📄 🔄
GEMM_Database_Indices_WebApp_Viewer.txt	222 B	plain text (.txt)		📄 🔄

### General

Identifier: urn:uuid:c5c97216-d8cc-4b89-8433-1f4e8ed59a11

Abstract: GEMM is a 5 year project to understand and quantify ground water exchange effects relating to Florida Bay and contributing fresh water inputs. The Groundwater Exchange Modeling and Monitoring (GEMM) Plan was created to provide a framework to address the uncertainties associated with landscape-scale flow patterns and impediments, SW-GW interactions, impacts of seepage eastward on GW movements south to Florida Bay, and the influence of water management on Florida Bay salinity, especially in the central Florida Bay region. A conceptual model of the drivers and interactions



# Inside a Package

South Florida Water Management District Search Data Submit Data Data Summary Sign In

**Other Entity**



Entity Name: **FBgraphic.jpg**

[Download](#)

Data Object Type: Other

Description: MS Word document containing package creation guidelines, standard conventions and protocols.

Physical Structure Description:

Object Name: FBgraphic.jpg

Size: 76348 byte

Externally Defined Format: Format Name: image/jpeg

Online Distribution Info: [sfwmd-dmarley.1158.1](#)

**Other Entity**



# Inside a Package

**Other Entity**

Entity Name:

Data Object Type: Other Physical Structure Description:

Object Name:

Size:

Externally Defined Format:

Online Distribution Info:

ALL\_DATA\_2005\_APR2011.CSV

Note: This table has been truncated to 151 rows (from the original 4310 rows) to prevent performance issues.

	REGION	EVENT	YEAR	MONTH	DAY	PSU	SITE	DRAW	PLOT	THROW	FISHBI
1	2A	8	2007	9	28	98		351		1	FISHBI
2	2A	8	2007	9	28	98		351		2	FISHBI
3	2A	8	2007	9	28	98		351		3	FISHBI
4	2A	11	2008	11	5	98		550		1	FISHBI
5	2A	11	2008	11	5	98		550		2	FISHBI
6	2A	11	2008	11	5	98		550		3	FISHBI
7	2A	12	2009	2	13	98		570		1	FISHBI
8	2A	12	2009	2	13	98		570		2	FISHBI
9	2A	12	2009	2	13	98		570		3	FISHBI
10	2A	12	2009	2	12	98		586		1	FISHBI
11	2A	12	2009	2	12	98		586		2	FISHBI
12	2A	12	2009	2	12	98		586		3	FISHBI
13	2A	14	2009	10	22	98		651		1	FISHBI
14	2A	14	2009	10	22	98		651		2	FISHBI
15	2A	14	2009	10	22	98		651		3	FISHBI
16	2A	15	2010	11	17	98		701		1	FISHBI
17	2A	15	2010	11	17	98		701		2	FISHBI

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browser and  
explore

*Questions?*