



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.



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

Photo: Callie Bowdish

DataONE

[DataONE.org](https://www.dataone.org)



A screenshot of the DataONE website homepage. The browser address bar shows "https://www.dataone.org". The page has a teal header with the DataONE logo and navigation links: "Data", "Services", "Community", "Learning", and "About". Below the header, the main content area features a large "DataONE" logo with a globe icon, the tagline "Making data more discoverable, accessible, & usable", and a search bar with the placeholder text "What data are you looking for?". The background of the main content area is an underwater scene with coral and fish.





DataONE

cerp-sfwmd.DataONE.org

The screenshot shows a web browser window with the URL cerp-sfwmd.dataone.org. The browser's address bar shows the URL and standard navigation icons. Below the address bar is a notification bar from Google Chrome stating "Google Chrome isn't your default browser" with a "Set as default" button. The website's header is a dark blue bar with the CERP - South Florida Water Management District logo on the left and navigation links "Search Data", "Submit Data", "Data Summary", and "Sign In" on the right. The main content area is white and features a "Find Data" section. This section includes a search bar with the placeholder text "Example: invasive species" and a blue search button with a magnifying glass icon. At the bottom of the page, there is a footer with the contact information "Contact: dmarley@sfwmd.gov" on the left and "Powered by DataONE Hosted Repositories" on the right.

“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

Search phrase

Filter by:

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

Datasets 1 to 4 of 4

Sort by Most recent Hide Map

Michael Breslin, & DeeAnna Francisco. (2025). **Operational Monitoring Plans WQM**. South Florida Water Management District (SFWMD). urn:uuid:5c5f18c-a0bb-4e61-bd72-8431652b10c2. 5

Theresa Strazisar, Steve Krupa, Fred Sklar, Kurt Saari, & Natahel Ansar. (2024). **GEMM - Groundwater Exchange Monitoring and Modeling**. South Florida Water Management District (SFWMD). urn:uuid:c537216-d80c-4089-8433-1f6ed59a11. 72

Michael Breslin. (2024). **Compliance Monitoring Plans for WQM**. South Florida Water Management District (SFWMD). urn:uuid:2a0337c7-5ea4-4e90-92b9-8550138f45. 3

Michael Breslin, & James Brown. (2024). **BGA Training**. South Florida Water Management District (SFWMD). urn:uuid:3fba369-2c07-46d4-97d5-1c795da399a. 6 141

Map showing Florida and surrounding regions (Georgia, The Bahamas, Cuba, Cayman Islands, Jamaica). Two datasets are highlighted on the map: 1 (near Orlando) and 2 (near Miami).

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Contact: dmarley@sfwmd.gov

South Florida Water Management District

Search Data Submit Data Data Summary Darlene

Search

Search phrase

Filter by:

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

Datasets 1 to 25 of 312

Sort by Most recent Hide Map

Thomas Behlmer. (2025). **Surveying Estuary Responses to Freshwater Inflows (SERFIS)**. South Florida Water Management District (SFWMD). urn:uuid:b077eda8-87e5-46ca-9d09-974d2d077b11.

Michael Breslin, & DeeAnna Francisco. (2025). **Operational Monitoring Plans WQM**. South Florida Water Management District (SFWMD). urn:uuid:5c5f18c-a0bb-4e61-bd72-8431652b10c2. 5

Malak Ali, Lori Wenkert-Lane, & Jacob Landfield. (2025). **AgwaCulture Northern Everglades Watersheds Water Retention And Nutrient Load Reduction Projects**. South Florida Water Management District (SFWMD). urn:uuid:e0803aea-75d5-4393-994a-a5105819e13c.

Malak Ali, & Orlando Diaz. (2025). **Sustainable Landscape and Treatment in a Stormwater Treatment Area Study**. South Florida Water Management District (SFWMD). urn:uuid:1f22b656-fcb5-4091-a76e-e10c3b67480.

Malak Ali, & Orlando Diaz. (2025). **Phosphorus Dynamics in the STAS: Evaluation of Biogeochemical Factors and Processes**. South Florida Water Management District (SFWMD). urn:uuid:953822ea-55b8-4d0b-8733-9c70255b07a1.

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). urn:uuid:9b301928-e16d-4bd5-97f3-b16ad6219946.

Darlene Marley. (2025). **ERDP - Everglades Research Database Production, 1994-present**. South Florida Water Management District (SFWMD). urn:uuid:5486ee7d-a68b-4161-bd17-176ff6a3469f.

Map showing Florida and surrounding regions (Georgia, The Bahamas, Cuba, Cayman Islands, Jamaica). Multiple datasets are highlighted on the map with numbers: 1, 2, 3, 4, 7, 12, 14, 150, 114.


Powered by DataONE Hosted Repositories

Contact: dmarley@sfwmd.gov




Inside a Package

[←](#) [↻](#) [🏠](#) <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 relatating 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

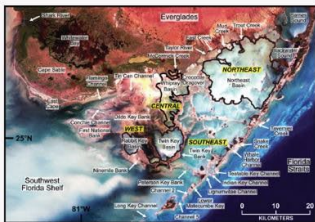


Inside a Package


 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 **ALL_DATA_2005_APR2011.CSV**

Download

View

Data Object Type: Other Physical Structure Description:

Object Name **ALL_DATA_2005_APR2011.CSV**

Size 3395845 byte

Externally Defined Format

Format Name

application/octet-stream

Online Distribution Info

[dmarley.438.1](#)

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	FISHBE
2	2A	8	2007	9	28	98		351		2	FISHBE
3	2A	8	2007	9	28	98		351		3	FISHBE
4	2A	11	2008	11	5	98		550		1	FISHBE
5	2A	11	2008	11	5	98		550		2	FISHBE
6	2A	11	2008	11	5	98		550		3	FISHBE
7	2A	12	2009	2	13	98		570		1	FISHBE
8	2A	12	2009	2	13	98		570		2	FISHBE
9	2A	12	2009	2	13	98		570		3	FISHBE
10	2A	12	2009	2	12	98		586		1	FISHBE
11	2A	12	2009	2	12	98		586		2	FISHBE
12	2A	12	2009	2	12	98		586		3	FISHBE
13	2A	14	2009	10	22	98		651		1	FISHBE
14	2A	14	2009	10	22	98		651		2	FISHBE
15	2A	14	2009	10	22	98		651		3	FISHBE
16	2A	15	2010	11	17	98		701		1	FISHBE
17	2A	15	2010	11	17	98		701		2	FISHBE

Close

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browser and
explore

Questions?