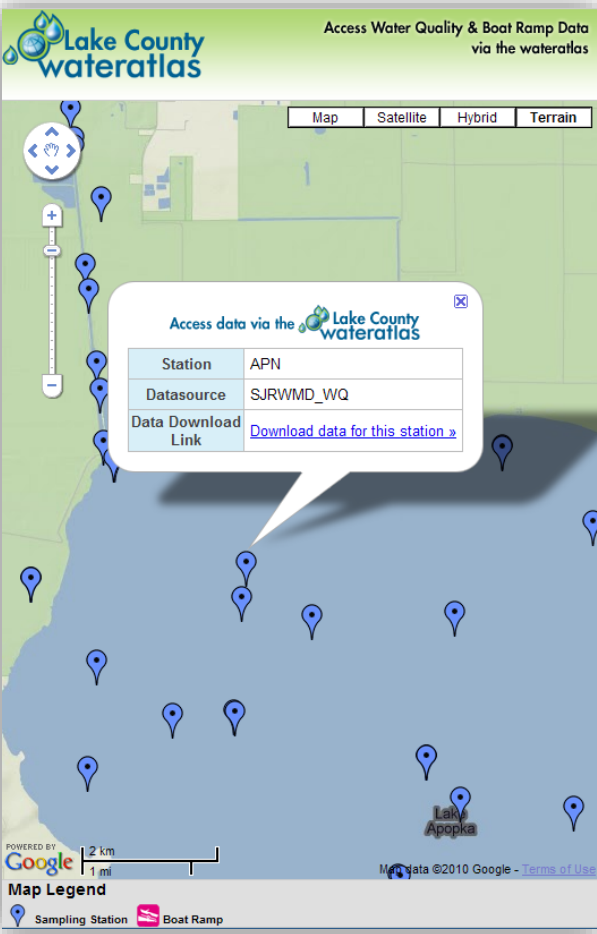# Data Mapping/Download Web Tool

What Does the Tool Do?

The Data Mapping/Download Web Tool is a system for collecting, storing, analyzing and disseminating raw or processed sensor data. It provides an easy-to-use graphic portal for viewing and downloading any information that has a spatial component, allowing website visitors to quickly identify data sets of interest. Possible applications include water quality (chemistry, physical properties, flows/levels), weather conditions (rainfall, air quality), or locations of features/amenities (boat ramps, nesting areas, habitat types). On a periodic schedule, data are collected and stored on our servers, then made accessible via a Google mapping application that can be embedded on any website. The application provides site visitors with convenient access to the raw data via our Data Download tool, which also includes filtering options and multiple display formats. In addition, we can provide custom analytical tools that display measured, calculated or comparative results as graphs or charts.

Who Can Benefit?

Government agencies, environmental consultants, and other organizations involved in resource assessment and management in Florida can use the Data Mapping/ Download Web Tool to make information available and meaningful to stakeholders.

Above Right: Example of the Data/Mapping/Download Web Tool embedded on the Lake County Water Authority's website, displaying water quality stations and boat ramp information for the Harris Chain of Lakes.
Below: Spreadsheet showing excerpt of station data that has been downloaded to a spreadsheet on a user's computer.

WaterBodyName	DataSource	StationID	StationName	Actual_StationID	SampleDate	Parameter	Characteristic	Result_Value	Result_Unit
Apopka, Lake	SJRWMD_WQ	45139	APN	45139	2/8/1989 13:30	TempW_F	Temperature, water	68	deg F
Apopka, Lake	SJRWMD_WQ	45139	APN	45139	2/8/1989 13:30	Cond_umhocm	Specific conductance	364.5	umho
Apopka, Lake	SJRWMD_WQ	45139	APN	45139	2/8/1989 13:30	Secchi_ft	Secchi disk depth	0.98424	ft
Apopka, Lake	SJRWMD_WQ	45139	APN	45139	2/8/1989 13:30	pH	pH	9.79	None
Apopka, Lake	SJRWMD_WQ	45139	APN	45139	2/8/1989 13:30	DO_mgl	Dissolved oxygen (DO)	11.93	mg/l
Apopka, Lake	SJRWMD_WQ	45139	APN	45139	4/27/1989 13:00	TempW_F	Temperature, water	80.24	deg F
Apopka, Lake	SJRWMD_WQ	45139	APN	45139	4/27/1989 13:00	Cond_umhocm	Specific conductance	368.67	umho
Apopka, Lake	SJRWMD_WQ	45139	APN	45139	4/27/1989 13:00	Secchi_ft	Secchi disk depth	0.590544	ft
Apopka, Lake	SJRWMD_WQ	45139	APN	45139	4/27/1989 13:00	pH	pH	9.16	None
Apopka, Lake	SJRWMD_WQ	45139	APN	45139	4/27/1989 13:00	DO_mgl	Dissolved oxygen (DO)	10.24	mg/l
Apopka, Lake	SJRWMD_WQ	45139	APN	45139	4/27/1989 13:00	Alk_CaCO3_diss_mgl	Alkalinity, Total (total hyc	104	mg/l CaCO3
Apopka, Lake	SJRWMD_WQ	45139	APN	45139	4/27/1989 13:00	ChlaC_ugl	Chlorophyll a, corrected f	53.46	ug/l
Apopka, Lake	SJRWMD_WQ	45139	APN	45139	4/27/1989 13:00	Chla_ugl	Chlorophyll a, uncorrecte	53.31	ug/l

Why Use Our Service?

The infrastructure, expertise, and labor involved in acquiring, storing, and maintaining large amounts of data can be costly. We have developed the hardware and tools necessary to do this reliably, securely and cost-effectively. We have in place a team of software professionals who can quickly create custom tools to make your data accessible and intelligible.

Where Is This Service Available?

Currently we serve partners throughout the state of Florida.
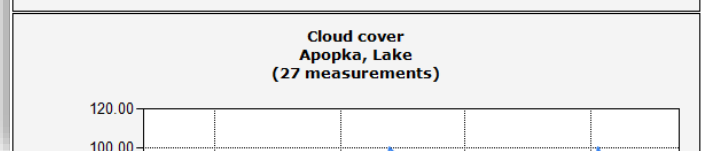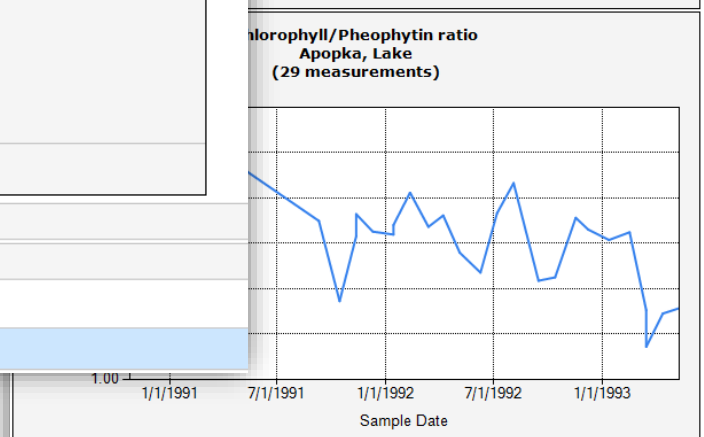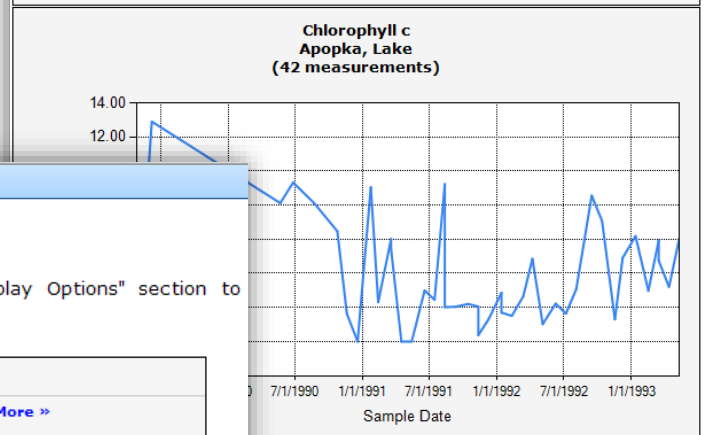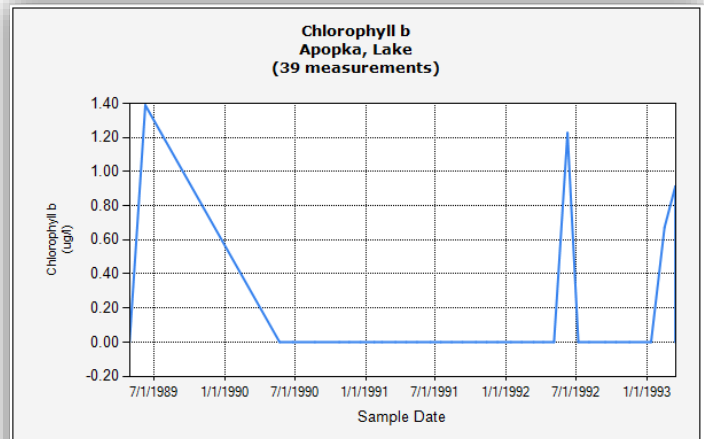
When Is Data Updated?

We make updates to your data based on a custom collection schedule that you provide. We'll work with you to establish a schedule that will meet your goals and objectives. In addition to mapping and data access, we can also assist you with formatting/submitting data to STORET. If you would like more information about the many services we provide, please contact us.

For more information:
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USF
UNIVERSITY OF
SOUTH FLORIDA

Chlorophyll b
Apopka, Lake
(39 measurements)

Chlorophyll c
Apopka, Lake
(42 measurements)

Chlorophyll/Pheophytin ratio
Apopka, Lake
(29 measurements)

Cloud cover
Apopka, Lake
(27 measurements)

Home   Data & Mapping   **Data Download and Graphing**

Data Visualization

Default graphs of your selected data are shown below. Use the "Display Options" section to customize the formatting/content of the graphs.

Graph Display Options *show/hide*

- ☑ Display Graph Title
- ☐ Display Legend
- ☐ Display Trendline
- ☑ Auto Zoom?
- Graph Type: Line
- Graphs per page: 5

Add Benchmarks **Learn More »**
- ☐ 10th Percentile
- ☐ Median
- ☐ 90th Percentile

[Refresh Graphs]

Selection Criteria Summary *show/hide*

Available Parameters *show/hide*

Generated Graphs

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The Data Download and Graphing Tool offers users the flexibility to choose a display format and parameters that are appropriate for their particular set of data.