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for Community Design + Research. contact Shawn Landry at The Florida Center about the Water Atlas Program, please If you are interested in knowing more

> Water Atlas Program? How Can Our Community Join the

friendly explanations. ponent is accompanied by userbefore. In addition, each data comthey would have never had access to tion for the local citizenry; information easy access to water resource informadata. The Water Atlas Program provides having the resources to better understand that issues are the inability to access the data, and who want to be informed about area water quality Two of the largest hurdles encountered by citizens

#### The Benefits for Citizens

with other institutions and agencies. improvement of the Program through grants and collaborative partnerships and volunteerism. Furthermore, the University is committed to continuous Program have also experienced dramatic increases in citizen participation and provides efficient and cost-effective data management. Agencies in the professionals, the Atlas reduces time spent finding quality-assured data to the website for questions about area water resources. For water resource information, managers can save valuable time by directing interested citizens and foremost, because the system allows for easy access to water resource The Atlas Program has many benefits for local government agencies. First

The Benefits for Government Agencies & Water Resource Professionals

Design: Kristin Caulfield

Photography: Richard Gant of SWFWMD

WHY DO WE NEED A WATER ATLAS?

 Water Quality Data · Educational Curricula Water Levels, Flows & Rainfall

Ecological Reports

Dynamic Maps

Current Water News & Events

• Conservation Advice

Bottom Contour Maps (Bathymetry)

 Boat Ramps & Parks Aerial Photographs

### EXAMPLES OF INFORMATION AVAILABLE ONLINE

maps from many different agencies in one location on the world wide web. technology, users are able to view water resource information and dynamic SQL environment. Through Active Server Pages (ASP) and the latest GIS (Water Resources Atlas Database), which is available for the Microsoft web. Quality-assured data from multiple agencies are stored in the W-RAD technology to serve timely water resource information on the world wide The Water Atlas uses custom software developed on an industry standard

Total Maximum Daily Loads (TMDL)

Historic & Current Photographs

Research Reports

Oral History Narratives

Near Real-Time Data

Fishing Reports

#### HOW DOES THE WATER ATLAS WORK?

#### www.WaterAtlas.org.

such as the Atlas. The gateway to all of the current Water Atlas sites is: infrastructure associated with building a comprehensive data warehouse ments are able to share the development costs and information technology resource information. Local govern-

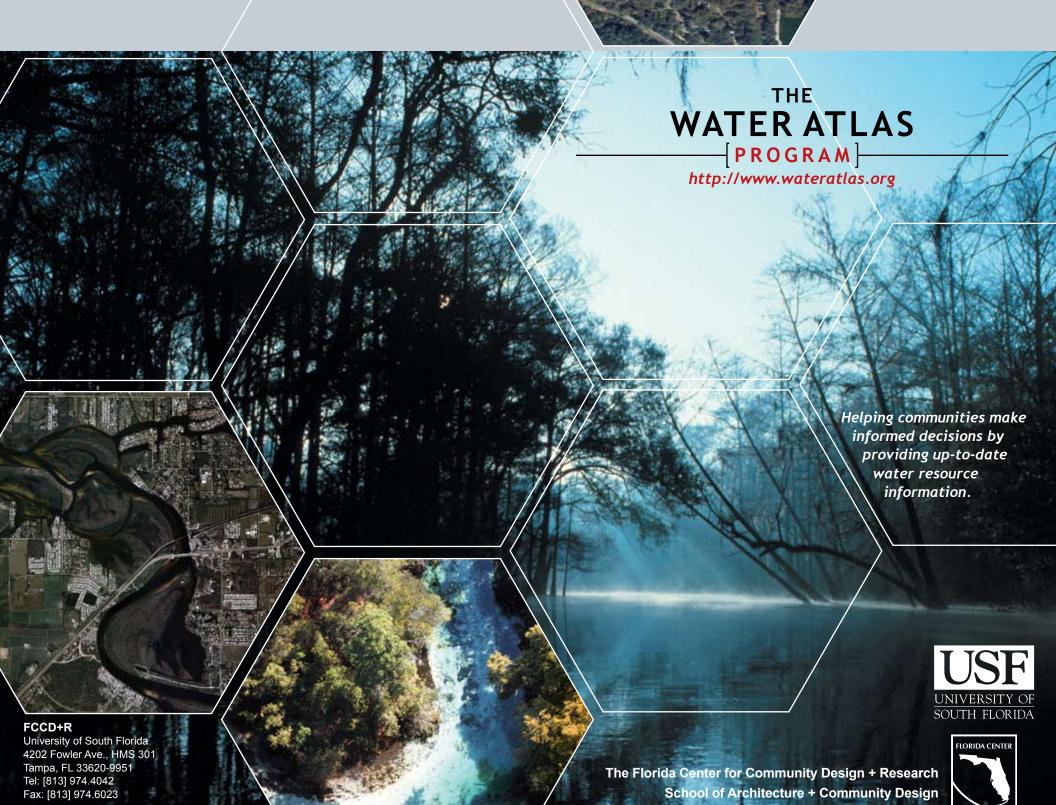
School of Architecture + Community Design

**University of South Florida** 

http://www.fccdr.usf.edu

with unprecedented access to water citizens and resource professionals is comprehensive and provides oratively build a Water Atlas that local communities to collab-The Program works with resource management. stakeholders in water to connect multiple through technology providing the means local governments by help meet the needs of at USF is designed to The Water Atlas Program

> **SMARDORAM?** WHAT IS THE WATER



# WATERATLA [Features]

# 1: ENTERING THE WATER ATLAS

Each Water Atlas site has a custom home page that allows its sponsor to promote its brand/identity, while remaining consistent with the other Water Atlas websites. The overall structure of each site is the same, but content is particular to each site's geographic area and water resource issues. The Water Atlas interface was designed using survey data collected from professional water managers, citizen scientists, and the general public.



### 2: WATER ATLAS HOME PAGE

The OneAtlas structure makes all site features easy to access from the home page. Easy-to-use menus and search tools allow users to access the most up-to-date, accurate and well-documented water resource data available—down to the individual water resource level.

Water Resource pages present data related to individual watersheds, streams, lakes, bays or the ocean. The Water Resource Search box gives quick access, while the Advanced Search tool allows users to browse/ search water resources on all atlases at once.

> One-click access to popular tools is provided from the home page: Digital Library, Data Download and Graphing, Real-Time Data and Map, Advanced Mapping, and Water Quality Contour Mapping.

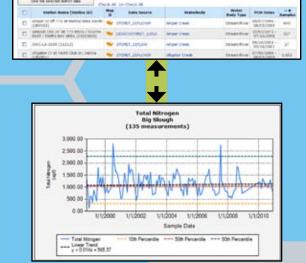
The Jump to Topic feature directly connects users to extensive and valuable information about important water resource management issues.

The news and the events calendar are designed to engage and inform citizens, letting them know about local and state water issues, recent improvements to atlas functionality and content, upcoming public meetings and volunteer opportunities.

Feedback forms make it easy for citizens to report problems with a local water resource, contribute data to the Water Atlas, or volunteer in their communities.

## FOR THE WATER RESOURCE **PROFESSIONAL**





# 3: NAVIGATING THE ATLAS

#### Finding an Individual Water Resource

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Servincia Communications

Through the use of search tools. lists of named water resources, and online map navigation, users can easily pinpoint the water resource they are interested in exploring.

### Interactive Mapping

The mapping interface allows the user to turn on multiple layers such as FEMA flood zones, land use and aerial photography. Once a series of layers is selected, the user can access data on individual sampling locations and print customized map layouts.

# Finding the Data

At the individual water resource level, the data have been divided into sections, making it easy for users to find the information they need. For most water resources, the data are divided into the following areas: Overview/Current Conditions, Water Quality, Water Levels/Flows, Habitats/Ecology, Recreation and Photos

# **FOR THE CITIZEN**



# 4: FEATURES FOR THE CITIZEN

# Context Specific Help

All of the data components on the individual water resource data pages are accompanied by explanatory text that helps the user understand what the data mean.

# **Online Communication Tools**

Through the use of online forms, the user can communicate with the scientists behind the data and the developers behind the Water Atlas. These forms encourage citizen participation in managing community water resources.

Volunteer pages facilitate data submission by citizen scientists and community groups.

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Other citizen-based features include a photo library, educational library and oral histories.



# 5: FEATURES FOR THE WATER RESOURCE PROFESSIONAL

# **Advanced Graphing**

An Advanced Graphing Tool allows the user to chose specific water resources, datasets and sample locations to create customized graphs.

# Data Download

The Data Download Tool allows the user to download customized datasets to their computer as either a Microsoft Excel file or a text file.

# Water Quality Contour Mapping

This tool allows easy visualization and temporal/spatial comparison of selected water quality data. A standard set of maps is created monthly, or users can make generate their own custom maps.

Other features for professionals include access to metadata, research and management based libraries, and a secure web-based interface for managing the data presented on the Atlas.