

FWRMC

Catalog of Monitoring Programs



Update

Kate Muldoon
GOMA / Watershed Monitoring
Florida Dept. of Environmental
Protection

Monitoring Catalog Workgroup: *Update*

- FWPMC 2008 Action Plan identifies need for Catalog of Monitoring Programs
 - Align freshwater ---> coastal monitoring efforts
 - Starting point for assessing metadata/data comparability
 - Minimize duplication
 - Leverage resources
 - Align surface water and groundwater monitoring efforts

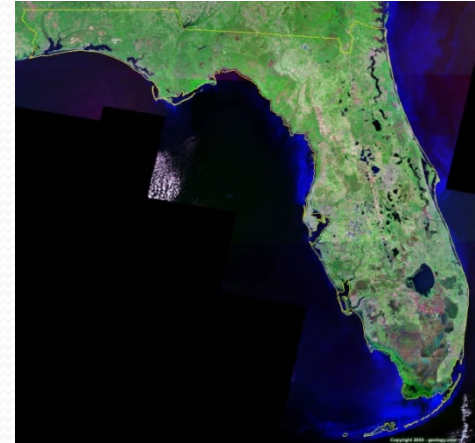
Monitoring Catalog Workgroup: *Update*

Take advantage of the time and resources that other projects have devoted to similar efforts, look for guidance from their experiences, and take advantage of the cost efficiency associated with using an existing platform . . .

Monitoring Catalog Workgroup: *Update*

Review of existing atlases & catalogs focused on:

- user interface
- ability to search metadata for program/project information
- ability for individual entities to upload stations/metadata



Monitoring Catalog Workgroup: *Update*

Reviewed & evaluated the following Catalogs & Atlases:

- **GOMA Catalog of Monitoring Programs** (catalog - in development)
- **NOAA GOM Digital Atlas** - <http://gulfatlas.noaa.gov/>
- **EPA My Environment** - <http://www.epa.gov/myenvironment/>
- **USGS Water Data Discovery** - <http://water.usgs.gov/data/>
- **Gulf of Mexico Ecosystem Portal** - <http://ecowatch.ncddc.noaa.gov/catalog/gom>
- **SECOORA Biological and Habitat GIS** - http://ocean.floridamarine.org/biohab_gis/

Monitoring Catalog Workgroup: *Update*

Evaluations (cont'd):

- **FWC GAME** (Geospatial Assessment of Marine Resources) -
<http://ocean.floridamarine.org/GAME/Viewer.htm>
- **FWC Marine Resource Geographic Information System** -
<http://ocean.floridamarine.org/mrgis/>
- **DEP MapDirect** (STORET focus) -
<http://ca.dep.state.fl.us/mapdirect/?focus=storet>
- **SRWMD Water Data Portal** -
<http://www.mysuwanneeriver.com/index.aspx?NID=345>
- **SWFWMD Water Management information System** -
<http://www.swfwmd.state.fl.us/data/wmdbweb/disclaimer.htm>

Monitoring Catalog Workgroup: *Update*

Recent Evaluations:

- **SJRWMD Environmental Data Retrieval Tool**
http://webapub.sjrwmd.com/agws93/edqt_pub/
- **SFWMD Data Portal**
<http://www.sfwmd.gov/portal/page/portal/xweb%20environmental%20monitoring/dbhydro%20application>
- **Comprehensive Everglades Restoration Plan (CERP)**
http://www.evergladesplan.org/pm/projects/cerp_gis.aspx
- **Water Atlas (FL Center for Community Design & USF) -**
<http://www.wateratlas.usf.edu/>
- **USGS SOFIA (South Florida Information Access) -**
<http://sofia.usgs.gov/>



Monitoring Catalog Workgroup: *Update*

	NOAA digital Atlas	EPA My Environment	USGS Water Data Discovery	USGS SOFIA	GOMA Ecosystem Portal	SECOORA Biological and Habitat GIS	FWC GAME	FWC Marine Resource Geographic Information System	DEP MapDirect	SRWMD Water Data	SWFWMD Water Management information	Water Atlas	Comprehensive Everglades Restoration	SJRWMD	SFWMD
<u>Interface</u> (ease to nav., complete info, aesthetics)	Y	Y	Y	Y	N	Y	N	N	Y	Y	Y (limited)	Y	Y	Y	Y
<u>Ability to search metadata</u>	?	?	Y (limited)	Y (Not searchable)	Y (limited)	?	Y (limited)	?	Y (limited)	Y (limited)	Y (limited)	Y (limited)	Y	Y	Y
<u>Ability to upload data</u> (by different entities)	?	N	?	?	?	?	?	?	N	?	N	Y	Y	?	?

Monitoring Catalog Workgroup: *Update*

Interface

- **Define common interface** (the how), including platform, place mark styles, and balloon content
- **Define the focus of the application** – to display monitoring stations and their associated metadata
- **Spatial component should be a main focus** (everything isn't strictly tied to projects/programs)
- **Define common information** (the what) to be displayed in catalog or place marks (location name, latitude, longitude, description, parameters available, period of record, etc.)
- **Partition monitoring information historical vs. current** (active vs. inactive stations.)
- **Provide links to organizations' websites** where data can be downloaded instead of trying to incorporate it into Catalog.

Monitoring Catalog Workgroup: *Update*

Metadata Searchability

- **Following elements are desirable:**
 - Data Quality Objectives
 - Station locations
 - Frequency of sampling
 - Period of record
 - Organizations responsible for sampling & data management
 - Links to organizations' websites and data
 - Info on other types of data such as flow data from USGS
- **Decide on analytes & analyte groups/categories**

Monitoring Catalog Workgroup: *Update*

Individual Entity Metadata Uploads

- **Need strategy to maintain continuity in data collection** when monitoring is transferred from one agency to another.
- **Include as many organizations as possible** (USACE, USFWS, National Parks system)
- **Develop a strategy for data/metadata management;** agencies are responsible for uploading & updating their own data
- **Data providers should frequently update their information** to preclude full/messy system
- **Metadata may be easier to update** via live link options

Monitoring Catalog Workgroup: *Update*

Logistics

- **Use an existing database with the types of information that the site will access.** Without that existing structure, it would be much more complicated
- **First, work out the logistics of information assembly.** For example, it is fairly easy to create KML files for subsets of a database's information.

Monitoring Catalog Workgroup: *Update*

- What existing/developing efforts should we **collaborate/integrate** with?
 - GOMA/SAA efforts
 - Water Atlas
 - Others?
- **Storyboard options** for implementation (differing costs implied) showing all process steps and data stores to determine how much fitting or retrofitting of existing systems is really possible.
- **Develop priorities & timeline** for how to proceed

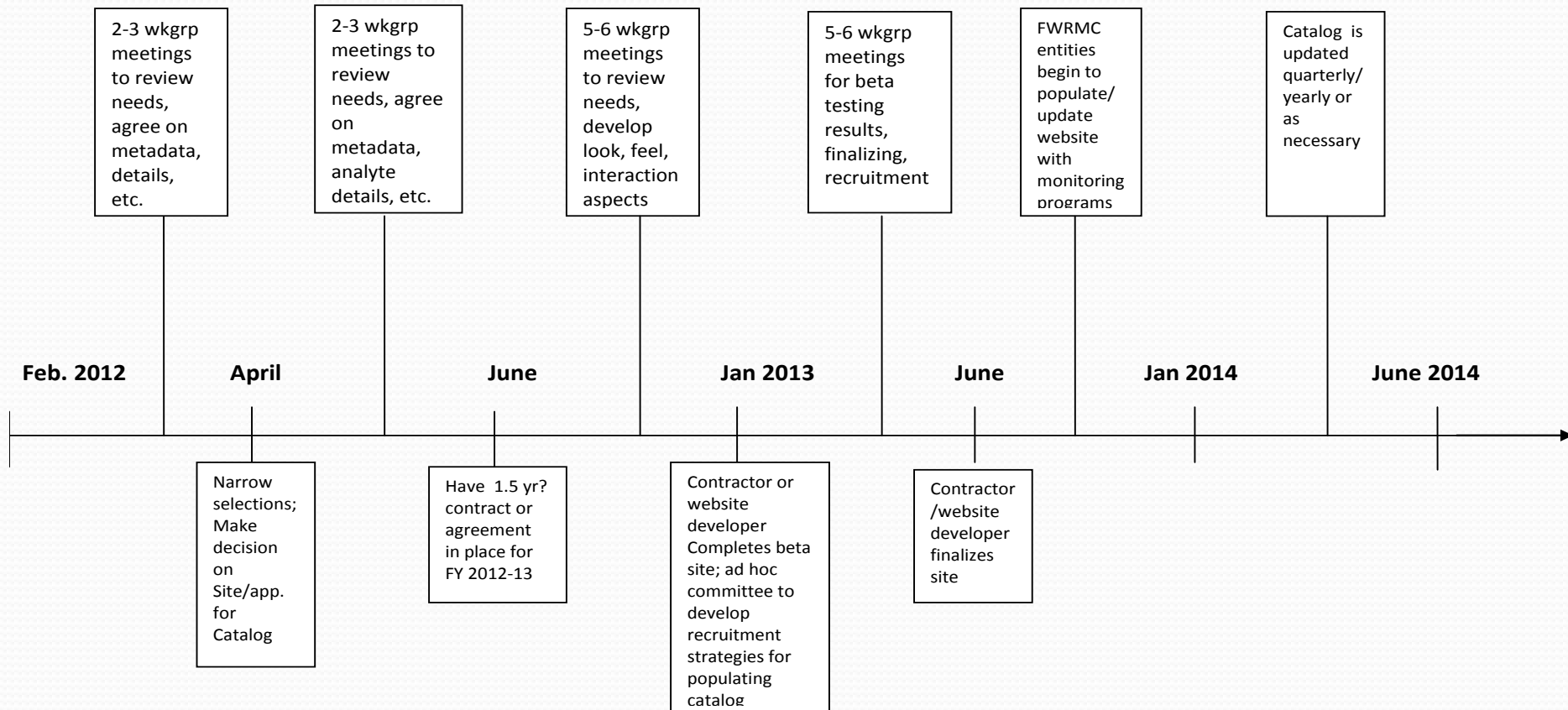


Monitoring Catalog Workgroup: *Update*

Draft Timeline

Development of FWRMC Catalog of Monitoring Programs

Catalog workgroup/FWRMC meetings:



Monitoring Catalog Workgroup: *Update*



Upper management
support/funding/
collaboration
for Catalog effort?

Questions & Discussion

