

Florida WCA Webinar: Water Quality and Climate Change

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Environment

WATER QUALITY		BENCHMARK
1A	Establish science-based, pollutant load reduction goals and interim targets	Short-Term (S)
1B	Develop, implement and continuously monitor and demonstrate progress toward meeting 1A's pollutant load reduction goals and interim targets	Short-Term (S)
1C	Activate additional Department of Regulatory and Economic Resources' (RER) resource management functions	Immediate (I)
1D	County should conduct an immediate assessment of land-based hotspot areas prioritized based on existing, known impairments	Immediate (I)
1E	Review, develop (as needed), implement and enforce local ordinances and policies to attain pollution load reduction goals set forth in the Watershed Restoration Plan (WRP)	Short-Term (S)
1F	Coordinate, staff and provide an annual budget for comprehensive, centralized Biscayne Bay Watershed data and research coordination and data management infrastructure	Immediate (I)

Benchmark

Immediate (I) | Short-Term (S) | Mid-Term (M)

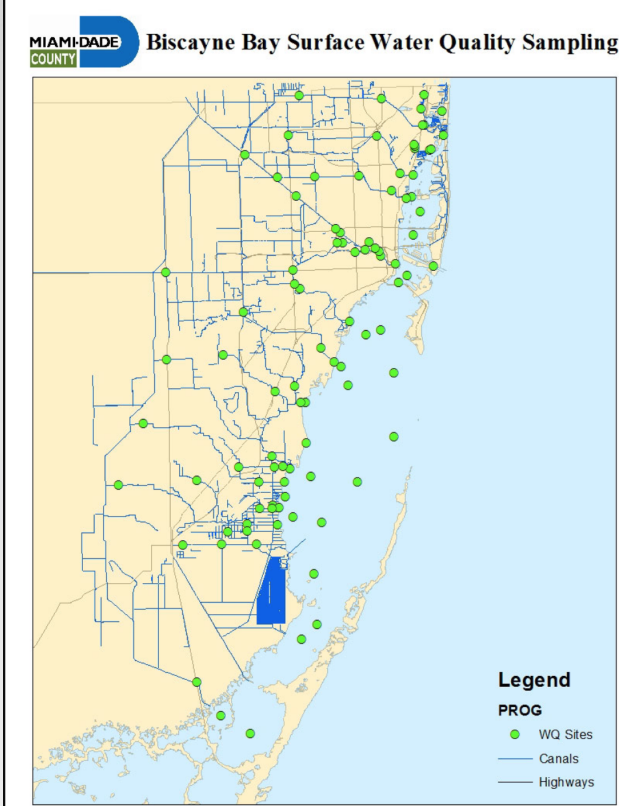
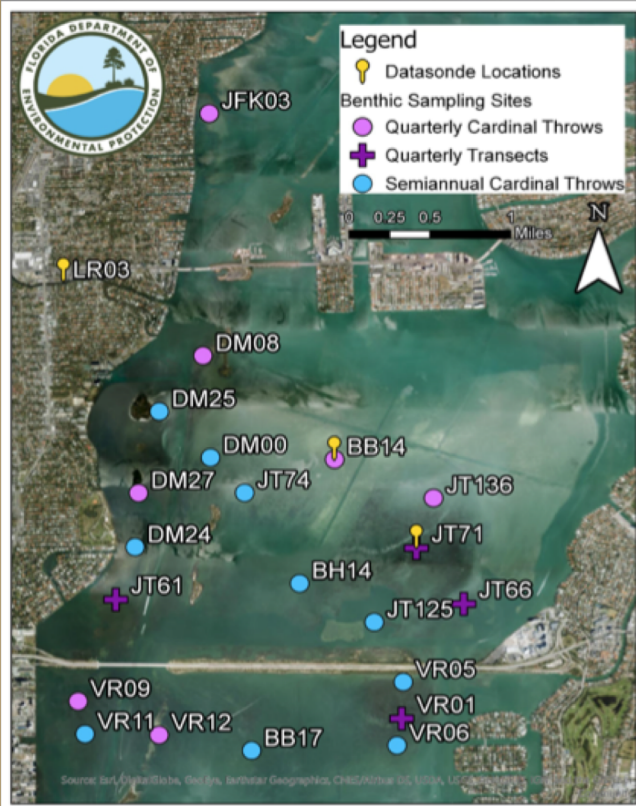
Less than one year | Between one and three years | Greater than three years

Action Type

Actions that can be accomplished administratively within the County

Actions that require additional policy considerations

Actions that require further collaboration at the municipal, state, or federal level



Florida Department of Environmental Protection, Department of Environmental Research Management, South Florida Water Management District, Miami-Dade Water and Sewer, NOAA

UM, FIU , Miami Water Keepers, other NGO's, other scientists

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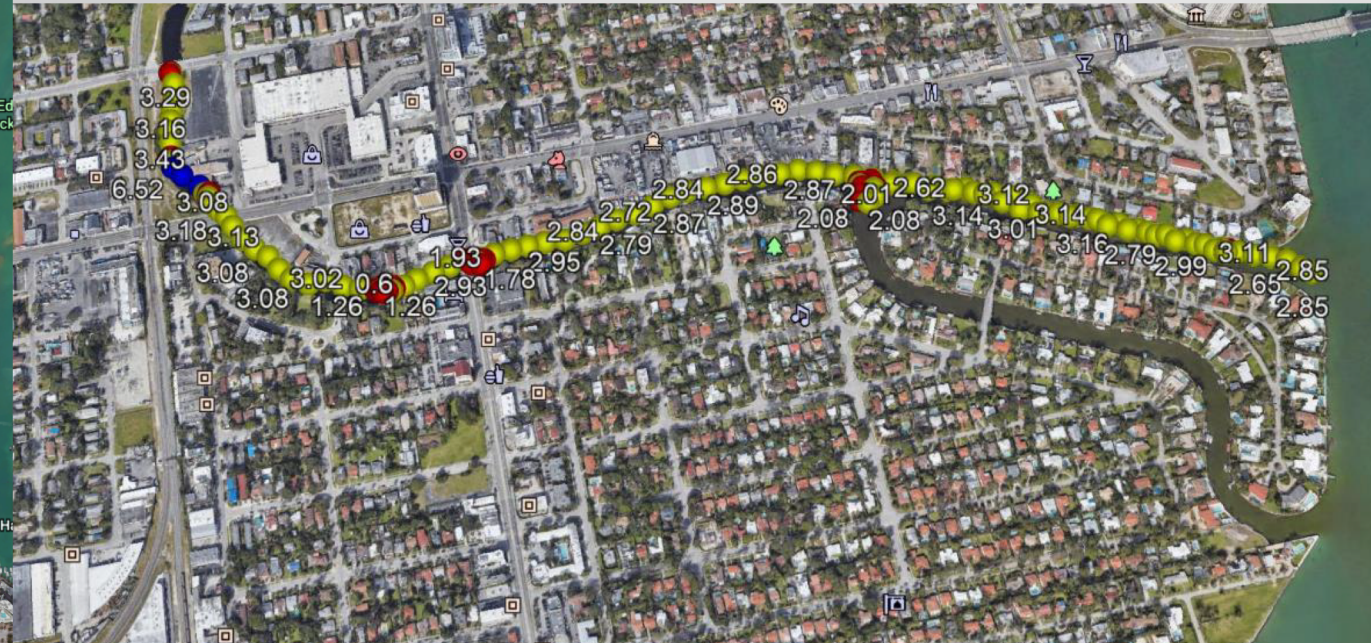
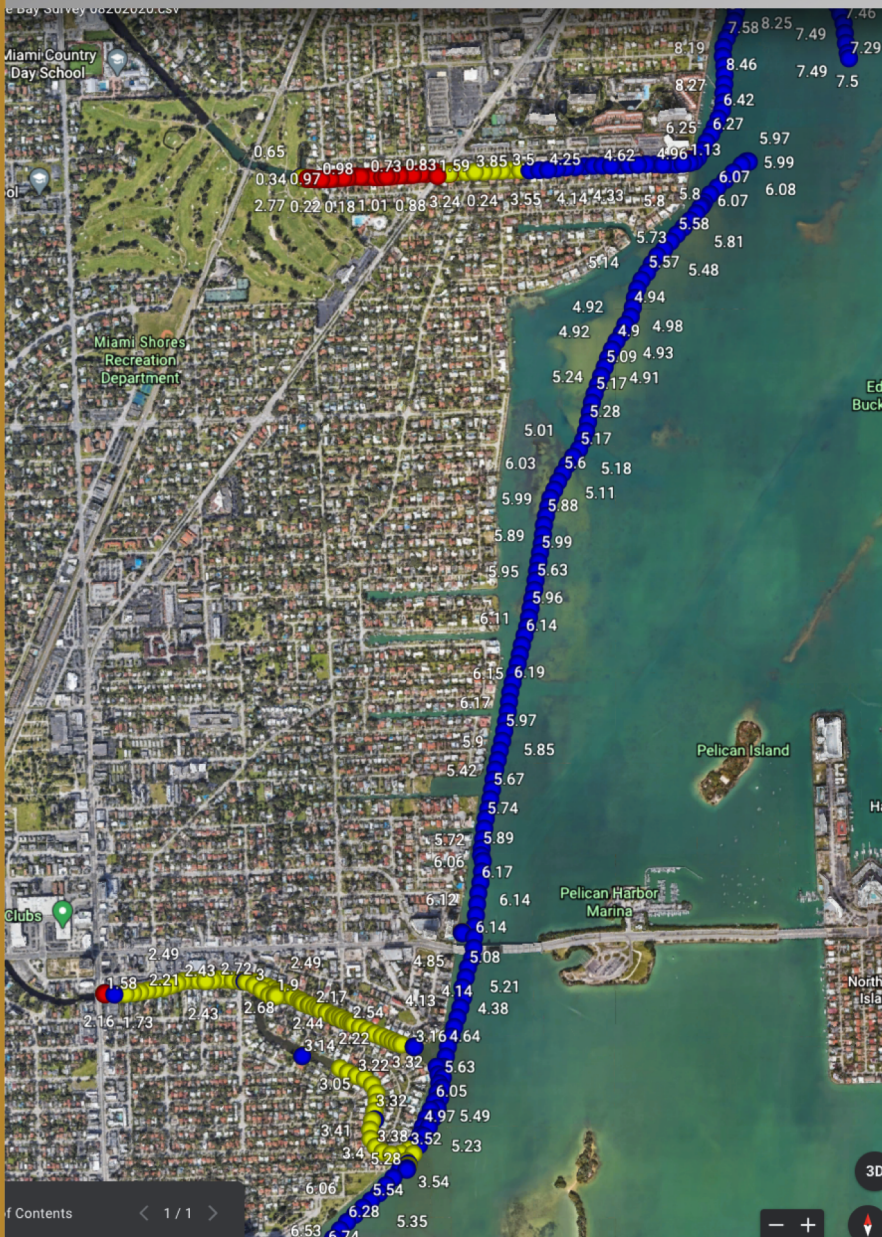
We need to include more nimble sampling methodologies that allow continuous data

And over much larger spatial area with near-real time data



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**We also need continuous monitoring
with real-time data**

Including night-time observations



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Chart View

Table View

Site Information

Parameters ▾

Studies ▾

📅 Last Day

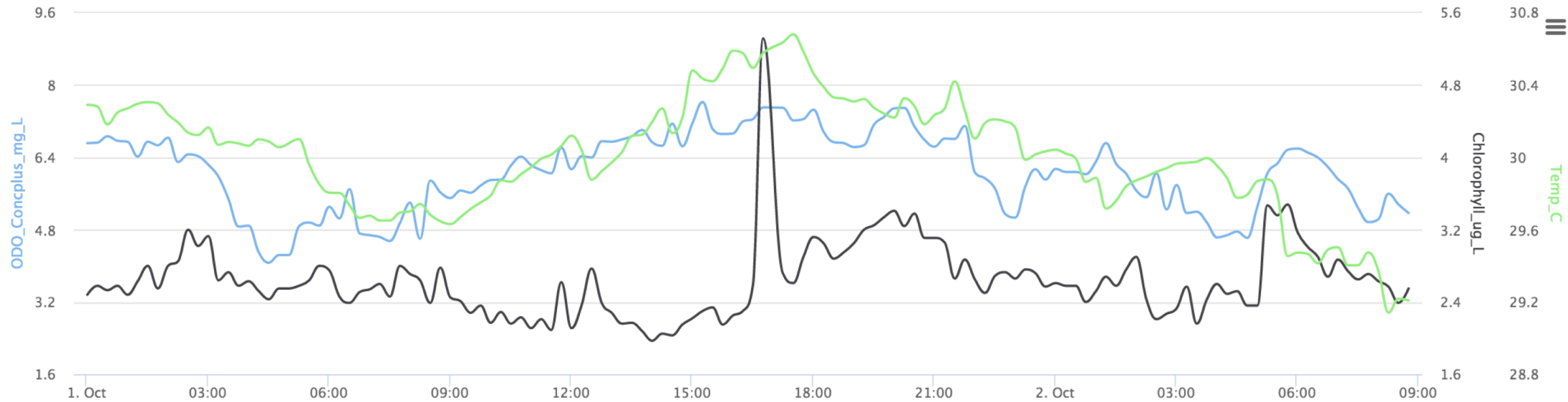
Y-axis scaling

Min

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Clear

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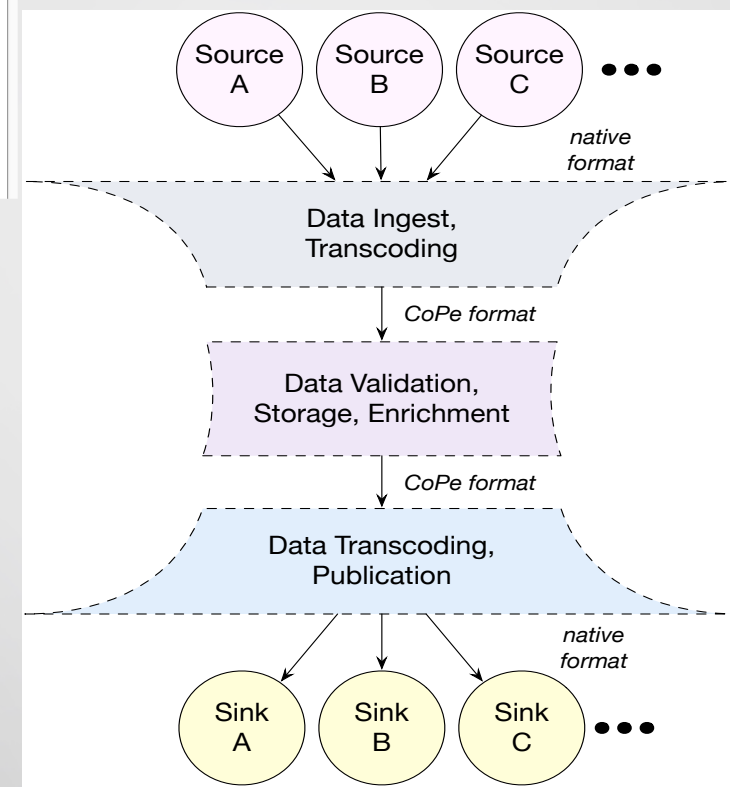
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We need an Interagency, Comprehensive Greater Biscayne Bay Watershed Program

Data harvesting for interoperability
Data dissemination for policy decision
Data visualization for community education



Benchmark
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WATER QUALITY

BENCHMARK

1G Undertake and secure funding for new pilot projects and research projects focused on reducing pollutant loads

Immediate (I)

1H Elevate and further amend the Comprehensive Develop Master Plan (CDMP) to further include Biscayne Bay watershed management planning elements

Mid-Term (M)

1I Conduct a climate change vulnerability assessment for Biscayne Bay

Short-Term (S)

1K Pass a county-wide fertilizer ordinance

Short-Term (S)

1L Increase compliance of all marinas and commercial operations along waterways

Immediate (I)

1M Continue to monitor the progress of the October 7th, 2015 Consent Agreement between FP&L and Miami-Dade County

Immediate (I)

We need to secure State-Level funding like the Hudson River, Chesapeake Bay, California Bay and Tampa Bay Programs

Environmental Finance and Risk Management Program –

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**“Establish funding streams to support a
Coordinated staff and provide an
annual budget for comprehensive monitoring
and management actions”**

**Environmental Finance and Risk Management
Program –**



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➤ **Offer comprehensive training in environmental resilience finance** - catastrophe bonds, weather derivatives, carbon markets, green bonds and other methods to create financing solutions to disaster preparedness and resilience, mitigation, adaptation, sustainability, reduction, conservation projects hedging the risks associated with those solutions

**Holistic monitoring and implementation is
NOT ENOUGH....we must empower all of the
citizens that live the Biscayne Bay Watershed
to understand the information**

EDUCATION IS THE KEY



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