

SOUTH FLORIDA ECOSYSTEM RESTORATION TASK FORCE



LEADERSHIP • PARTNERSHIP • RESULTS

Water Quality Monitoring: Summary of Results

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Overview

- Requested input from members regarding water quality monitoring programs at the February 14th kickoff meeting
- Water Quality Comparison Matrix
 - FDEP provided a form to receive information to add to their existing dataset
 - Results: Detailed spreadsheet
- Additional Programs
 - Members were also invited to share other monitoring efforts that supplement/complement the dataset
 - Results: Narrative descriptions and links for more information

The matrix contains 3 types of programs:

- Comparable Programs (7)
 - Have comparable parameters
 - Unique datasets
- Non-comparable Programs (24)
 - Limited parameters
 - Not unique datasets
 - No nutrients sampled
- FCRCT Added (3)

Comparable Programs (7):

- 1. South Florida Ecosystem Restoration Cruises (Walton Smith)
- 2. SERC South Florida Estuaries Water Quality
- 3. DERM Surface Water Quality
- 4. Broward County Water Quality Monitoring Program
- 5. Coral Ecosystem Conservation Area (ECA) Water Quality Assessment
- 6. City of Miami Beach Water Monitoring
- 7. DEP BBAP

Non-Comparable Programs (24):

- 1. Key Biscayne Water Quality (Formerly known as Biscayne Bay Water Watch)
- 2. City of Miami Beach Water Monitoring
- 3. Continuous Bottom Temperature Measurements along the Florida Reef Tract
- 4. Environmental Monitoring Assessment Program
- 5. NPS South Florida/Caribbean Inventory and Monitoring Network: Coral Reef Water Temperature
- 6. National Data Buoy Center
- 7. Florida Keys Bleach Watch

Non-Comparable Programs (24):

- 8. Harmful Algal Bloom Marine Observation Network
- 9. National Aquatic Resource Surveys, National Coastal Condition Assessment
- 10. National Status and Trends Mussel Watch
- 11. Southeast Area Monitoring and Assessment Program (SEAMAP) Gulf of Mexico Fall & Summer Shrimp/Groundfish Survey
- 12. Southeast Area Monitoring and Assessment Program (SEAMAP) Gulf of Mexico Reef Fish Survey
- 13. Water Quality Monitoring Project
- 14. Dry Tortugas Monitoring
- 15. Underwater temperature on off-shore coral reefs of the Florida Keys, U.S.A.

Non-Comparable Programs (24):

- 16. SEACAR
- 17. DBHYDRO
- 18. WIN/STORET
- 19. Biscayne National Park
- 20. Red Tide Sampling
- 21. Cheeca Rocks Buoy Data
- 22. Keys Marine Lab
- 23. SERC Microbial Ecology Lab
- 24. Miami Water Keeper

FCRCT Added (3):

- 1. Florida Bay Water Quality Monitoring Network
- 2. Palm Beach County Ambient Water Quality Monitoring Program
- 3. Microbial and environmental dataset from Crocker Reef, Florida Keys

Additional Programs (20)

- 1. DEP Environmental Resource Permit and Joint Coastal Permit programs Benthic Monitoring (DEP)
- 2. Kristin Jacobs Coral Reef Ecosystem Conservation Area Monitoring Efforts (DEP)
- 3. Southeast Region Aquatic Preserves Benthic Monitoring (DEP)
- 4. Water Quality Monitoring Network (FIU/SERC)
- 5. Continuous Bottom Temperature Measurements along the Florida Reef Tract (FKNMS)
- 6. Demographic Monitoring and Population Enhancement of Acropora palmata along the Florida Reef Tract

Additional Programs (20)

- 7. CREMP Water Temperature on Coral Reefs in the Florida Keys (FWRI)
- 8. Florida Keys and Southeast Florida Coral Reef Evaluation and Monitoring Project (CREMP/SECREMP) (FWRI/NOAA)
- 9. Florida Reef Resilience Program: Disturbance Response Monitoring Program (DRM) (FWRI)
- 10. GIS Data Layers (FWC/FWRI)
- 11. HAB Monitoring Database (FWRI)
- 12. Unified Reef Maps (FWRI)
- 13. Mission: Iconic Reefs (NOAA)

Additional Programs (20)

- 14. National Coral Reef Monitoring Program (NCRMP) (NOAA)
- 15. Population Status of Elkhorn Coral (NOAA)
- 16. Florida Bay Water Quality Monitoring Network (NPS)
- 17. Ambient Water Quality Monitoring Program (Palm Beach County)
- 18. South Florida National Coral Reef Monitoring Program (NOAA)
- 19. Florida Keys Corals: A Photographic Record of Changes from 1959 to 2015 (USGS)
- 20. Microbial and Environmental Dataset from Crocker Reef, Florida Keys (USGS)

Discussion



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