



# FKNMS Water Quality Initiatives



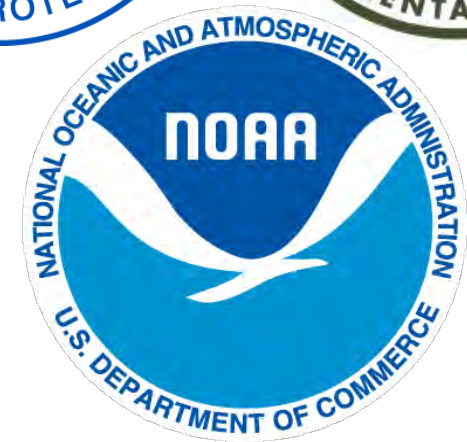
# Presentation Overview

- Water Quality Protection Program 101
- Next Steps for the WQPP:
  - Priorities Identification
  - Upcoming Steering Committee Meeting
- Water Quality Issues Spotlight:
  - 2020 Water Quality Monitoring Update
  - Shallow Injection Well Monitoring
  - Vessel Pumpout Services
- South Florida Ecosystem Restoration



# Water Quality Protection Program

Established as part of the Florida Keys National Marine Sanctuary and Protection Act - 1990



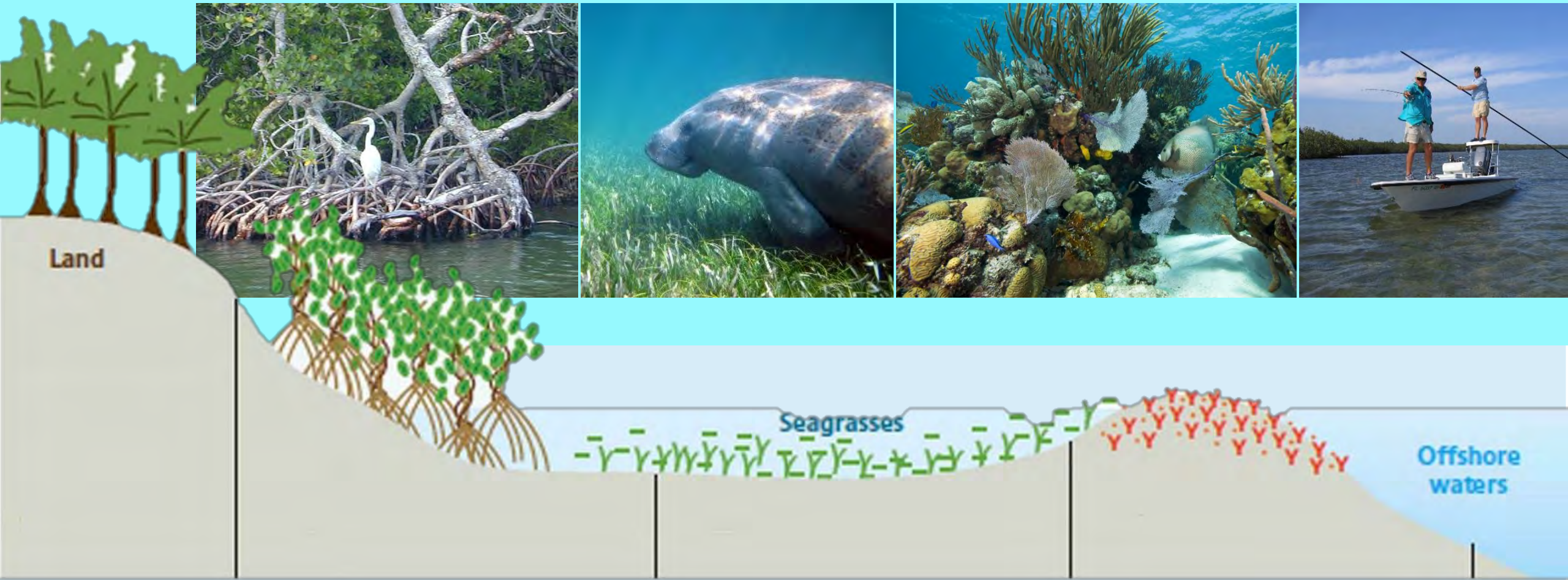
# Water Quality Protection Program: Purpose

“Recommend priority corrective actions and compliance schedules addressing point and nonpoint sources of pollution to restore and maintain the chemical, physical, and biological integrity of the Sanctuary, including restoration and maintenance of a balanced, indigenous population of corals, shellfish, fish and wildlife, and recreational activities in and on the water.”

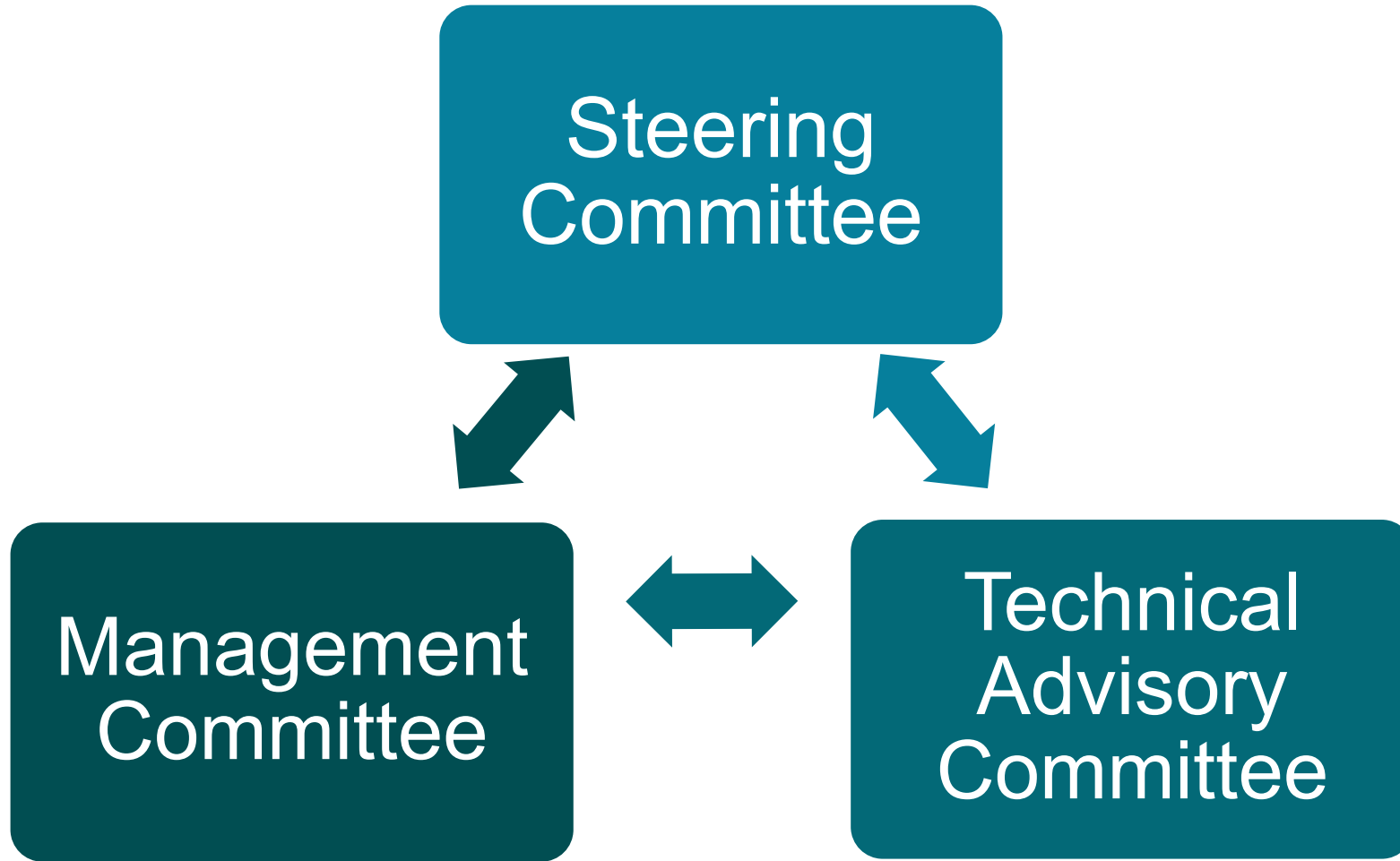


# Water Quality Protection Program: Purpose

Achieve good water quality and healthy resources



# Water Quality Protection Program: Framework





# Water Quality Protection Program Components



Photo: Shawn Verne

## Corrective Actions

- Reduce pollution by:
- Implementing pollution control measures & BMPs
  - Adopting or modifying regulations and water quality standards

## Comprehensive Monitoring

- Determine sources of pollution in the sanctuary
- Evaluate management effectiveness
- Understand status and trends of water quality and biological resources

## Research & Special Studies

- Enhance understanding of:
- Emerging resource management issues
  - The origins, transport, and effects of pollutants on Sanctuary resources

## Education & Outreach

- Increase public awareness of water quality sources impacts and solutions
- Incorporate public input into the implementation of the WQPP



# Water Quality Protection Program Achievements

Wastewater  
Upgrades





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Wastewater  
Upgrades

Elimination of  
Vessel Discharge





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Wastewater  
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Elimination of  
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Canal WQ  
Improvements





# Water Quality Protection Program Achievements

Wastewater  
Upgrades



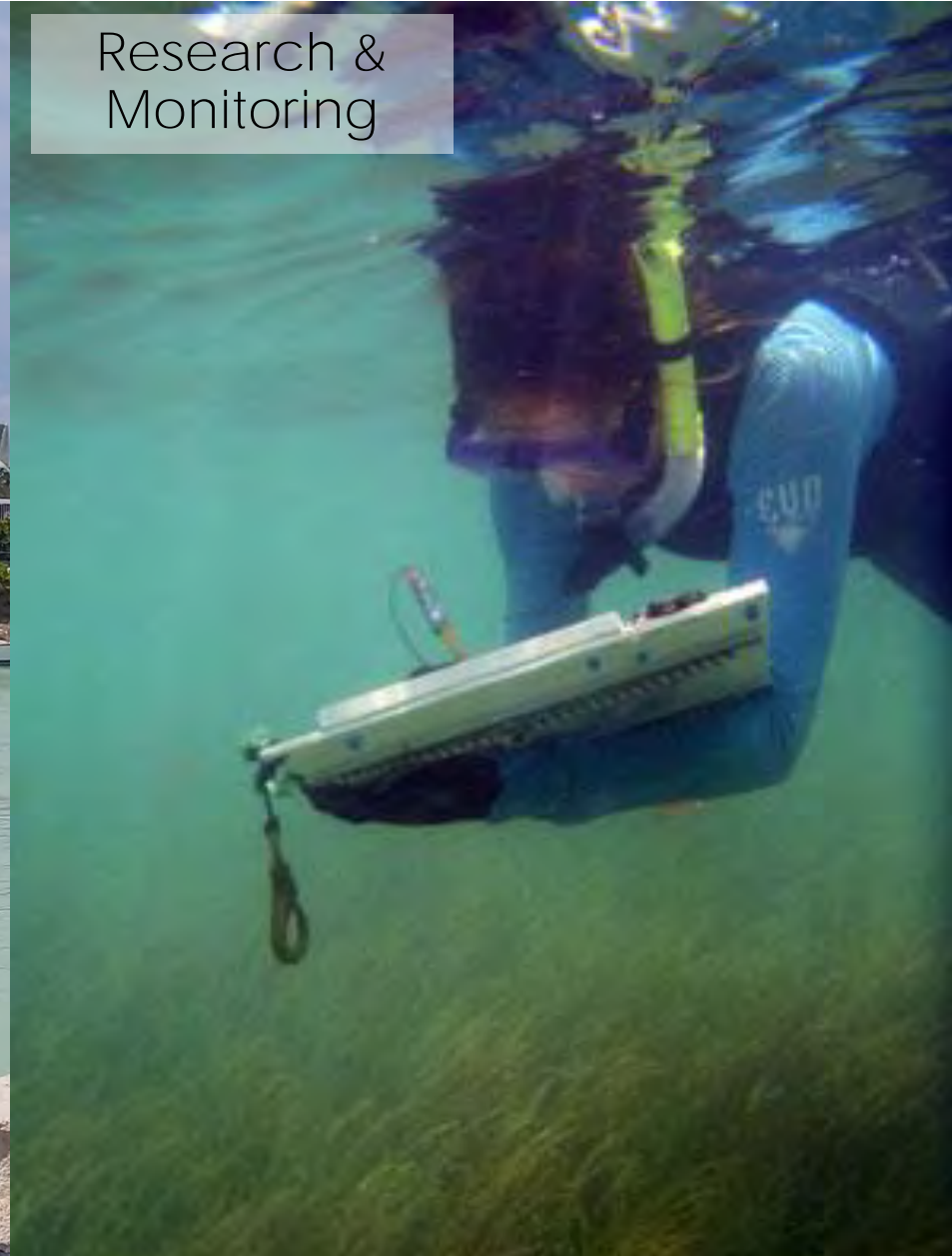
Elimination of  
Vessel Discharge



Canal WQ  
Improvements



Research &  
Monitoring



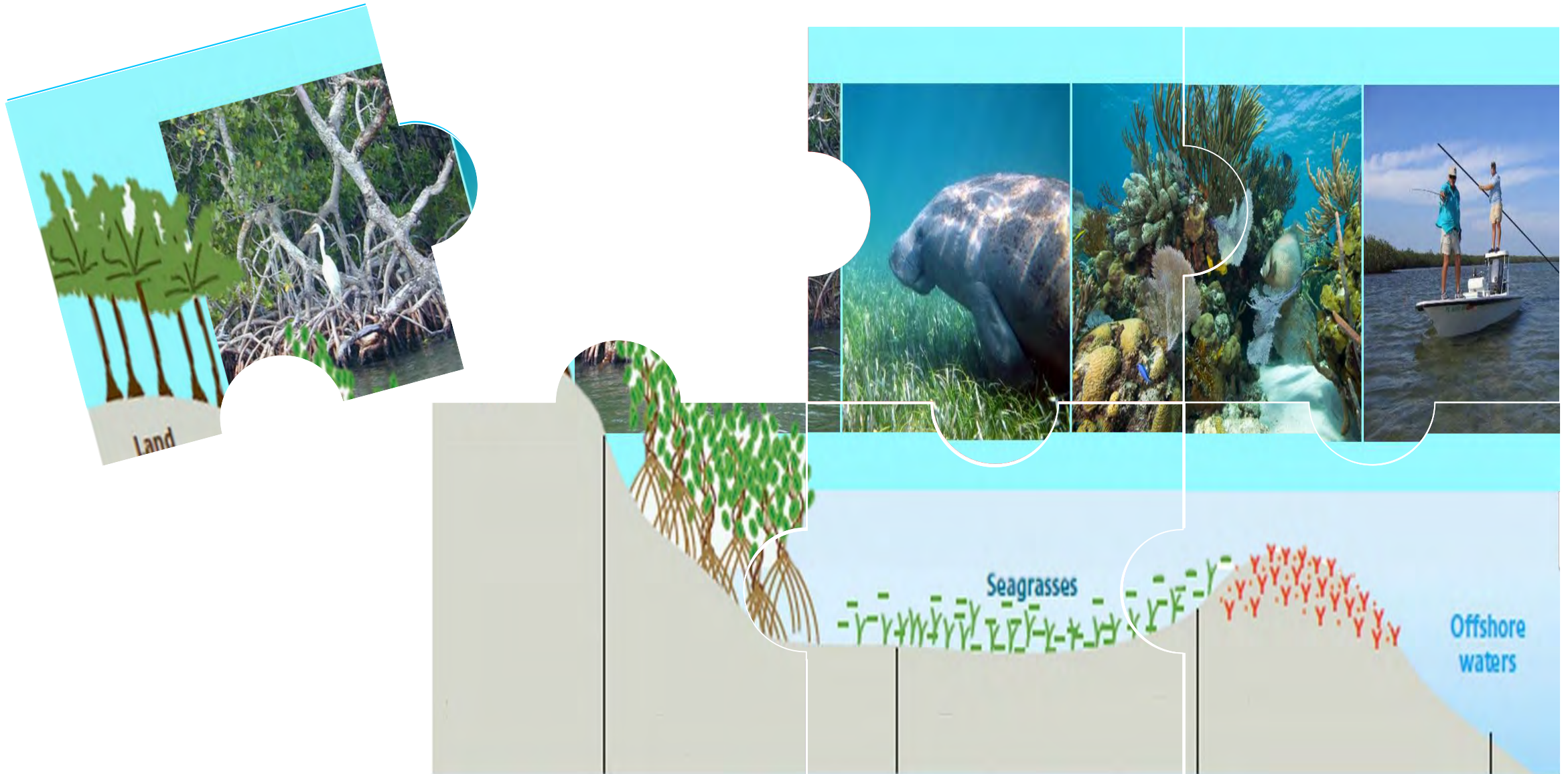
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# WQPP Priorities Identification



# WQPP Steering Committee: Upcoming Meeting

- Dates: TBD (August 2020)

## Today:

- Gauge interest in a joint SAC/WQPP Meeting
- Provide feedback on the target outcomes of a joint SAC/WQPP Meeting





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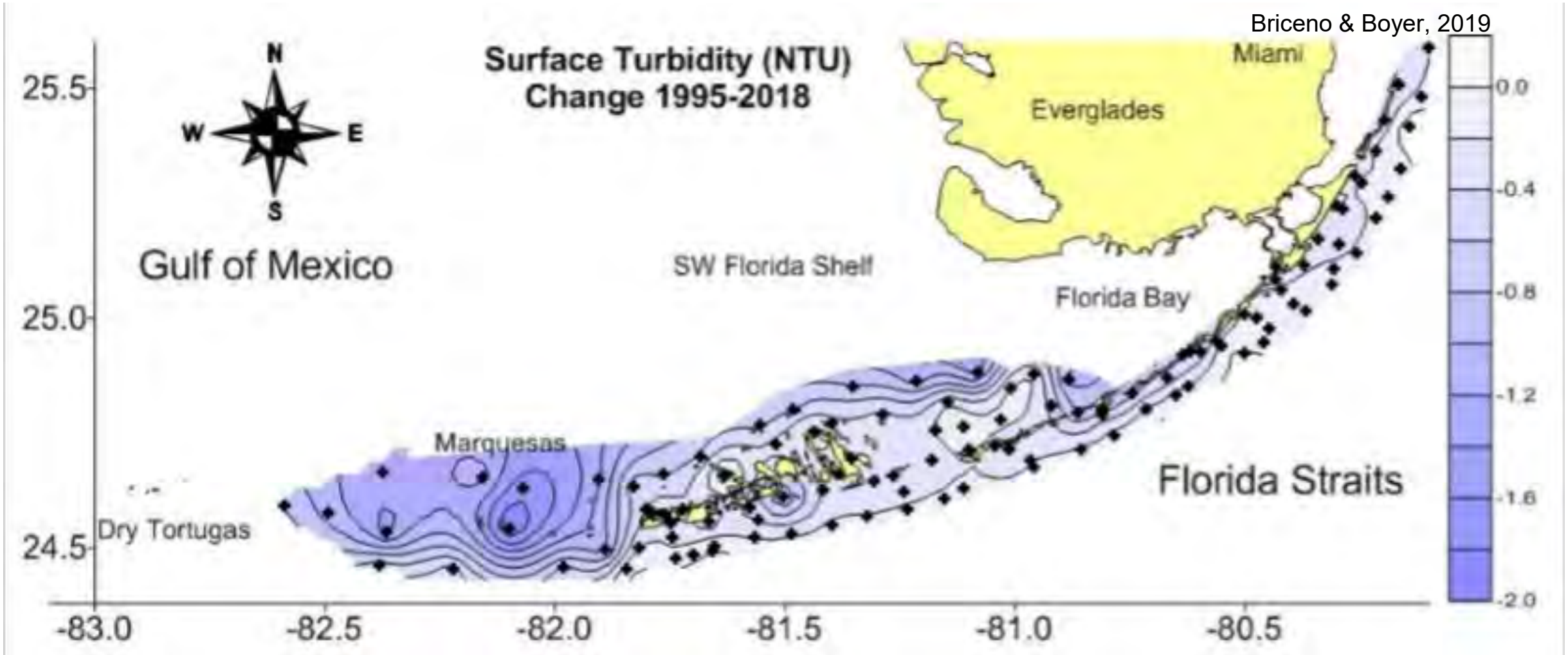
# 2020 Water Quality Monitoring Update



Photo: Shawn Verne

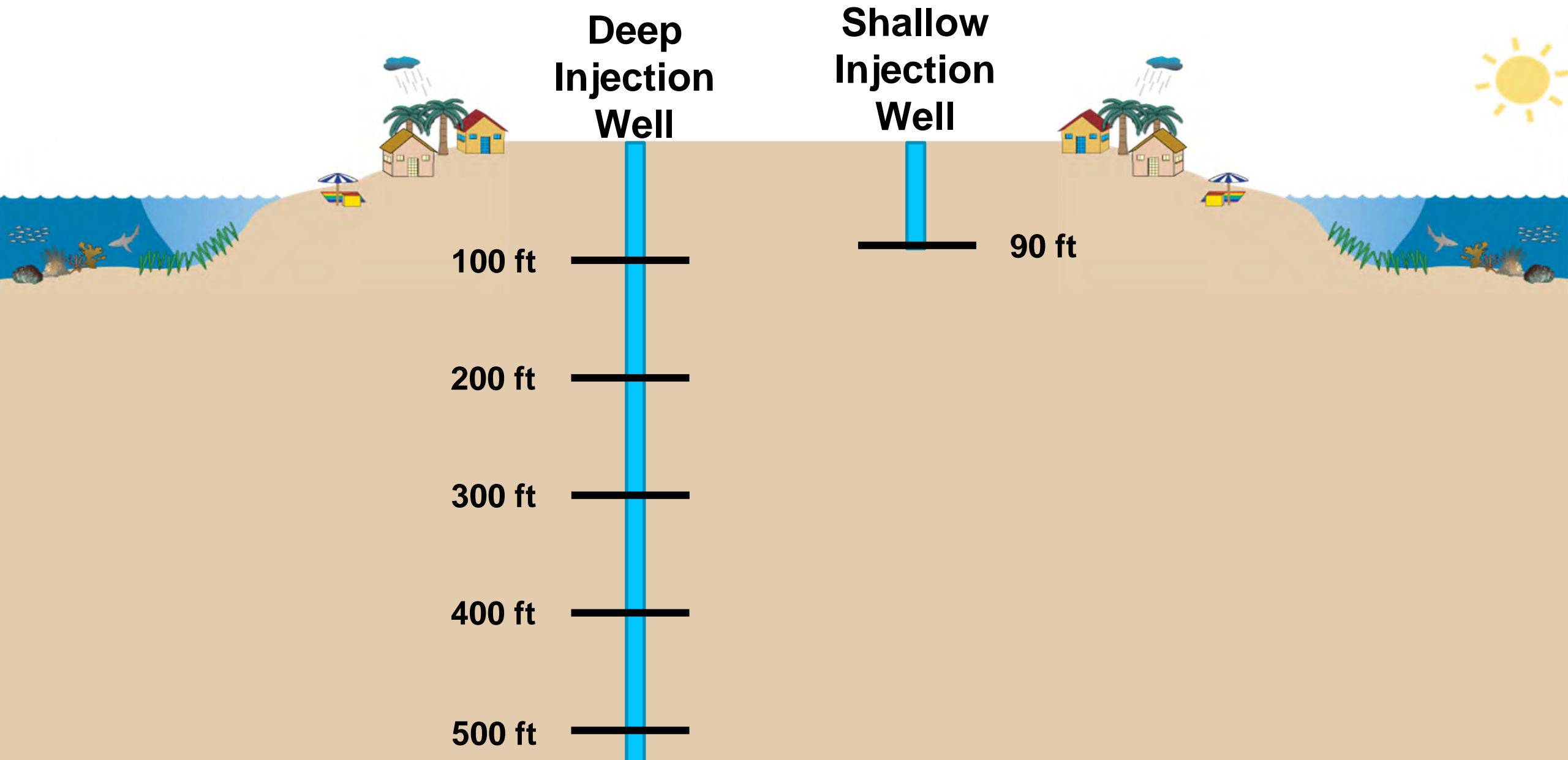


# 2020 Water Quality Monitoring Update



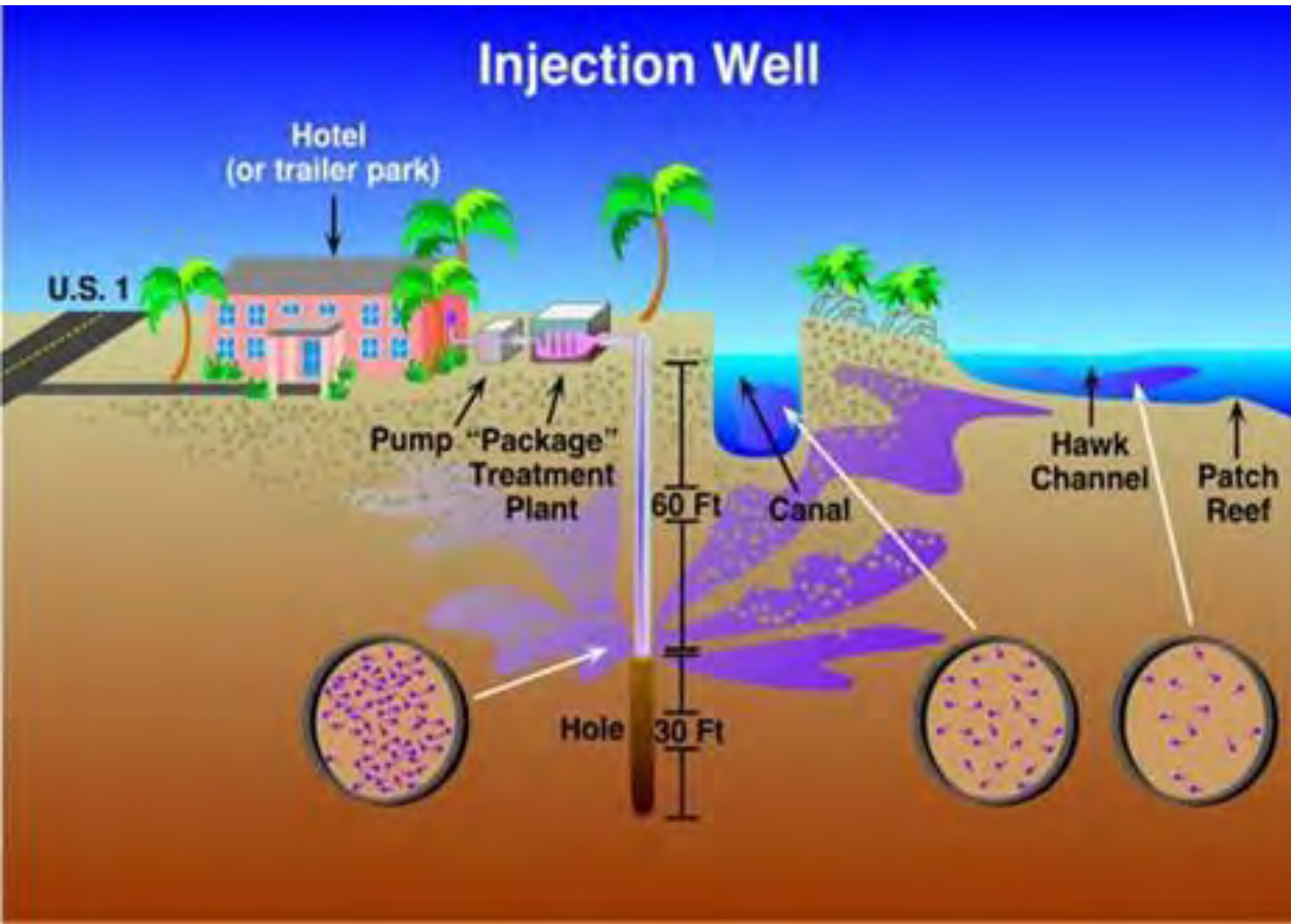
Total change in turbidity in surface waters over a 24 year period

# Shallow Injection Well Monitoring





# Shallow Injection Well Monitoring



Wastewater disposed into a shallow injection well can rise toward the surface and contaminate residential canals and other nearshore waters (Paul, 1997)

# Vessel Pumpout Services



**KEEP OUR  
WATER CLEAN-  
USE PUMPOUTS**





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# Regional Water Quality Issues

## South Florida Ecosystem Restoration Task Force



- NOAA Task Force Seat
- NOAA Ecosystem Restoration Team
- Working Group and Biscayne Bay Team Membership
- Community Coordination





# Thank You

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[http://ocean.floridamarine.org/FKNMS\\_WQPP/](http://ocean.floridamarine.org/FKNMS_WQPP/)