

PROJECT: FDEP-Coastal/Florida Coral Reef Monitoring Program

1. DESCRIPTION: Land-based Sources of Pollution in SE Florida Reef waters
2. PURPOSE/GOALS: Identify how land-based sources of pollution affect southeast Florida coral reef ecosystems.
3. HISTORICAL UPDATE: Analytical project began with EML on September 2017. Data monitoring began by NOAA on 2016.
4. USE OF DATA: The data will be provided to FDEP
5. RELEVANCE: While there is insufficient information to definitively link degradation of coral reef habitat with land-based sources of pollution, there are ample data to indicate that nutrients and other pollutants are negatively impacting the corals and other biological resources in southeast Florida. Biological indicators of land based pollutants, such as the proliferation of nuisance species of algae, need to be identified for the coral reefs and associated habitats of southeast Florida, and cause/effect relationships involving land-based sources of pollution, transport pathways, and biological communities need to be further investigated and better understood.
6. EFFECTIVENESS: Compare results to state and local water quality standards applicable to coral reef communities and conduct a literature search to identify the links between pollution and the health/condition of coral reef communities.
7. SAMPLE SITES: Various SAMPLING CONSIDERATIONS: Sampling may be adversely affected by inclement weather such as rain. PARAMETERS: Nutrients, TSS, Turbidity and Chlorophyll
8. FREQUENCY/DURATION/SCHEDULE: Monthly
9. DELIVERABLES: Field Sheets, Chain of Custody and Final Laboratory Reports.
10. SPECIAL EQUIPMENT/SUPPLIES CONSIDERATIONS:
11. UNIQUE QA/QC REQUIREMENTS: Field duplicate necessary for each run as well as a Field Clean Equipment Blank. In addition, chlorophyll a and orthophosphate require one additional replicate per run.
12. FUNDING/REVENUE: Contract fund paid by FDEP Coral Reef Monitoring \$329,000 annually