1970
First beach restoration project completed in Broward County, at Pompano Beach

Beach Renourishments

1980
Broward County initiates a reef monitoring program

1983
Beach restoration projects in Broward County, in Pompano Beach and Lauderdale-by-the-Sea

1989
Dunes in Coral Cove Park in Palm Beach County restored

1990
Beach re-nourishment project at town of Bal Harbour in Miami-Dade County

1992 - 1993
Delray Beach shoreline renourished in Palm Beach County

1994 - 1995
Ten acres of dune restored from Carlin Park in Jupiter to Donald Ross Road in Juno

1995
Beach re-nourishment at Midtown, Palm Beach County

1998
Beach re-nourishment at Ocean Ridge Shore in Palm Beach County
This is the first beach project undertaken by the Florida Department of Environmental Protection. The renewal of 1.1 shoreline protection project, which includes grants, construction of 6 groins and two acres of mitigation reef, placement of 782,745 cubic yards of dredged from an offshore borrow area, and placement of 1,000 linear feet of offshore breakwaters. Total project cost was $8,000,000. Federal funds totaled $4,000,000 and State funds totaled $4,000,000. The local sponsor of existing beach project is anticipated to spend 10 percent beginning in 2010.

2001
Beach nourishment in Phipps Ocean Park in Palm Beach County begins
The placement of approximately 1,230,000 cubic yards of sand was initiated, covering about 1.3 miles of shoreline. This each also received an additional 34,000 cubic yards of shoreline during the Post-Storm Reconstruction Project in 2003. A 1.4-acre mitigation reef was constructed between May 28 and June 17 2001.

2006
Beach nourishment in Phipps Ocean Park in Palm Beach County begins
The project consisted of 1.4 mile, 1 million cubic yard beach. Eight acres of new dune was planted and 3.7 acres of limestone reef was constructed nearby to mitigate for the loss of nearshore hardbottom. Renourishment is planned every five years beginning in 2005 A.

CR Related Research & Monitoring

1970
Miami-Dade County Water Quality Monitoring Network initiated
The Network monitors status and trends in water quality parameters to support management decisions, regulatory activities, and environmental studies and protecting/restoring living marine resources in South Florida coastal waters. It is limited to Biscayne Bay and associated canals and tributaries.

1980 - 1990
Johnson and others complete an 11 year study profiling all commercial and recreational marine fisheries in the SEFCRI region

1982 - 1990
Southeast Florida fishery landings data collected and published
These draft findings for all fisheries was 21.4 million pounds, valued at $14.6 million, 81% was commercial, 19 % was recreational, and 1% was headboat landings.

1982
Palm Beach County Reef Research Team established
This is comprised of a group of volunteer sport divers spanning under the direction of the Palm Beach Zoo, a non-profit conservation organization. The team monitors artificial reefs on a regular basis, using funding supplied from the State of Florida Fish and Wildlife Conservation Commission.

1994
Water Quality Monitoring Network (FIU/SERC) created
The goal of the network is to oversee the status and trends of monitoring of water quality parameters in estuaries program toward achieving maintaining high quality standards and protecting living marine resources in South Florida coastal waters.

1996
13th coral reef monitoring site established in Martin County
Data were collected on coral colonies, sponges, algae, fish, and other biota and images of the reef were taken to document growth and study colony conditions.

1997
Florida Keys National Marine Sanctuary Regulations published in the Federal Registrar

1998
Beach restoration project in Broward County in the John U. Lloyd Beach State Recreation Area
This involved dredging sand from offshore "borrow sites" and pumping the sand onto target beaches.

2000 - 2001
Study undertaken to measure the economic contribution and value of artificial and natural reefs in Southeast Florida
The study began June 2000 and ended May 2001, and was conducted by distributing survey boaters who are recreational fishers (commercial fishers were not included), reef divers, reef snorkelers and/or visitors viewing the reefs on glass bottom boats. The study was funded by NOAA, FWC, and the four counties in Southeast Florida and employed extensive survey research.

2000
Investigation conducted in Broward County by Moyer et al.
The investigation looked into spatial patterns in community composition of benthic algae and macroinvertebrates on bottom cover using in-tubes. Six 4-point intercept transects at 12 sites within three zones (reef corridor, Broward reef tract, control and nearby reef) containing all three reef zones.

2001
Nova Southeastern University takes over reef monitoring responsibility from Broward County
The University of Nova Southeastern University was able to coordinate the removal of around 1,600 tons at the end of year 2 Celsius.

2001 - 2002
Small tire retrieval program conducted by Dr. Robin Sherman in Osborne Reef
Over 1,000 tires were removed from the reef and transported to the FC' sought, sites, were kept for reef research.

2001
Sediments conducted indicate sewage contributed to blooms of Codium isthmocladum

2004
A fishery-independent, visual census on natural reef habitats off Broward County is conducted by Ferro et al.
- A total of 46 site visits (approximately 144 fish and sites belonging to 109 species and 51 families were observed in a total)
- Species richness was similar to southern species; abundance (number of fish) and biomass of fishes (the amount of fish living in a given habitat) on hardbottom per square meter of reef) increased significantly on reef than existing away from shore.

2004
Florida Administrative Code 68B-8 Special Activity License passed
The Marine Special Activity License (SAL) program issues licenses for activities that require a waiver of marine life prohibitions or gear restrictions. Activities that may be authorized by the SAL program, with certain additions, upon (Basis (By use of non-conforming gear (for research purposes only), the taking of invertebrate gear, the use of marine chemicals, the release of marine organisms, and the use of dredges for harvesting marine organisms.

2004
AES Ocean Express, LLC is given approval to construct a pipeline in South Florida
The Federal Energy Regulatory Commission (FERC) authorizes AES Ocean Express to build and operate a 20-inch, 10.5-mile diameter pipeline stretching from a proposed LNG terminal in the Bahamas to Broward County.

2004
Calypso US Pipeline, LLC is given approval to construct a pipeline from the Bahamas to South Florida
The Federal Energy Regulatory Commission (FERC) authorizes Calypso US Pipeline to construct the pipeline.

2006
Outstanding Florida Waters Rule: 62-302.700: prohibits pollution
Prohibits degradation of water quality in outstanding Florida waters and outstanding natural resource waters.

2006
Florida Anti-degradation policy goes into effect
The policy is comprised of Florida Administrative Code (62-302.300 "Surface Water Quality Standards" and 62-4.242 "ERP"). The policy is designed to protect water quality and water resources from significant degradation. The rule establishes the criteria for state water quality for all activities. Violation of these standards will not be in the public interest.

2006
FDEP is asked by Coastal America to work on a project to remove the tires in Osborne Reef
"Coastal America organized a cooperative project with the FCMA by 3 Ts, Inc, USCGard Guard, NOAA, Broward County Environmental Protection Department and Unwin Marine Corporation and FDP to share the key jobs that is undergoing the Broward County Reef Restoration Project.

2006
Palm Beach County Reef Research Team initiates artificial reef monitoring and assessment of benthic communities associated with the 9 man-halves expanding to the natural, deeper reefs
Palm Beach County Reef Research Team had performed routine monitoring and assessment of benthic communities associated with the 9 man-halves expanding to the natural, deeper reefs.

2006
Mooring ball program is launched for shallow water reefs in Palm Beach County
This was a joint effort led by the Florida Fish and Wildlife Conservation Commission, the Wildlife Foundation of Florida, and Palm Beach County Environmental Resources Management.

2006
Baseline Limerock Boulder Reef Monitoring starts
Evaluation of benthic and fish assemblages on five study-layered limerock boulder reefs throughout Miami-Dade County.

2006
Boynton-Delray Coastal Water Quality Monitoring program is carried out
Data collected at Stations 1 and 2 during the 2006 dry season (November 2005 through April 2006) and at all 6 stations during the 2006 wet season (May through October 2006).

2006
First full phase of tire removal operations begin offshore of Broward County
Divers worked an estimated 27 days with 16 dive days spent removing tires from the reef. Approximately 1,000 tires and 40,000 tons were removed over the course of the operation by approximately 40 military personnel, including Navy and Coast Guard EOD units.

2006
Reef Injury and Response Program created
The primary goal of the program is to develop and implement management actions that prevent coral injuries associated with commercial and recreational vessels using the reefs and to respond to injuries when they occur. The initiative and other local action strategies. If damages do occur, the program will be responsible for the appropriate restoration and/or mitigation to correct the problem.

2006
Second full phase of tire removal operations offshore of Broward County
Divers worked an estimated 14 whole or partial days with two dive days cancelled due to adverse weather conditions or equipment failures. An additional 13 days of trimmer operations were cancelled due to unsafe conditions. Approximately 1,000 tires and 40,000 tons were removed over the course of the operation by approximately 50 military personnel, including boat drivers and LCU crew.

2006
Palm Beach County Mooring Buoy Program begins
The program created a mooring buoy system to protect coral reef resources in the Jupiter, Juno, and Singer Island areas and deter vessels to keep them out of shipping anchor on the reef.

2006
Southeast Florida Coral Reef Water Monitoring Project created
The objective is to evaluate the long-term status and trends of water quality, identify declines or recovery of coastal and offshore water quality, and determine if water quality can be linked to land-based sources of pollution, or changes in coral conditions in southeast Florida. This program was SECREMP, 23 monitoring stations and CCCL sites.

2006
Southeast Florida Marine Debris Reporting and Removal Program established
A joint venture by the SFRI, FWC, and Palm Beach County's Reef Rescue Team, this program encourages local divers and dive shops to report marine debris, then reef clean-up crews are organized to remove the debris.

2012
Southeast Florida Fisheries-Independent Program formulated
Fisheries-independent monitoring is a fish sampling program using standardized gear to collect information on the relative abundance of fish species. The program in southeast Florida will be based on the Reef Visual Census (RVC) method, an that under 1600 coral colonies and monitor for increases for the next 15 years. Project costs are expected to exceed many hundreds of thousands.

2013
Southeast Florida Action Network launched (SEAFAN)
SEAFAN is a reporting and response system designed to improve the protection and management of southeast Florida's coral reef resources. The network is a partnership among federal, state, and local government agencies, regional and nonlocal organizations, and private citizens, particularly boaters and divers.

2013
The FDEP has ordered the Town of Palm Beach to build artificial reefs and coral nurseries
The Town of Palm Beach has been ordered by the state to build coral reefs and coral nurseries to help mitigate the Mar-a-Lago Resort's environmental impact. The Mar-a-Lago Resort's environmental impact is the area. Palm Beach must build at a cost of $308,000 to the Marine Regulation Assessment Program in exchange for having their fees reduced or waived. The program will also be allowed for fees to the public to use the reefs for recreation.

2010 - 2011
Climate Change Action Plan for the Florida reef system developed
This plan is intended to guide coordination of reef management across many jurisdictions and serve as a framework for public/private companies in the climate change goal set forth in Governor's "Will to Lead Task Force" Conservation Program Goals & Objectives 2010-2015" It was formulated by reef users, managers, and scientists as part of the Florida Reef Resilience Program.

2011
Southeast Florida Marine Event Response Program (SE-MERP) created
The program is a component of the Florida Fish and Wildlife Conservation Commission's Florida Keys National Marine Sanctuary Program's (SEFRA) to the Florida Keys National Marine Sanctuary. It will fill the reporting response gap for vessel groundings and other marine events that occur in southeast Florida and complement the response efforts of the Florida Keys Reef Tract. Upon notification of a biological disturbance event, FDEP, FKNMS will coordinate with regional partners to schedule initial site assessments, implement event response protocols, and analyze samples, when possible and appropriate.

2011
Port Everglades call for expansion plans that could harm nearby reefs
The $310 million project with the Army Corps of Engineers calls for blasting and dredging through limestone and coral to deepen the port's entrance channel from 42 feet to 50.

2011
Ault and Franklin conduct a review and synthesis of fishery-dependent information from state and federal agency data sets
These findings indicate that a majority of the exploited reef fish species in the southeast Florida region are experiencing overfishing and state at unsustainable levels lady.

2012
Southeast Florida Action Network launched (SEAFAN)
SEAFAN is a reporting and response system designed to improve the protection and management of southeast Florida's coral reef resources. The network is a partnership among federal, state, and local government agencies, regional and nonlocal organizations, and private citizens, particularly boaters and divers.

2013
Florida Administrative Code rule 68B-42 is passed
Under the administrative code, removal and possession of wild live rock, except for, coastone and live rock cultivated under a valid marine aquaculture license, is prohibited in state waters.

2013
Florida Statute Chapter 403 Pollution Control passed
Florida Statutes are now available on the provisions of pollution, e.g., water pollution and air pollution and solid waste disposal. This also covers the prohibitions to violation of pollution control. To effective 403.121, The Environmental Litigation Reform Act allows for more efficient use of admin. process and judicial review, and to provide for penalties to pollutions, and outlines administrative penalties for pollution violations rules and actions.

2011
Florida Statute 403.021 Clean Water passed
Florida Statute 403.021 states that all waters in coastal waters and across the air and water within it that is within the jurisdiction of the State of Florida.

2012
Florida Statute 258.008 Coral Protection in State Parks passed
The statute 3.14 in Biscayne Bay is illegal to damage or remove any living or dead coral or coral reef in State Parks, in doing so, there will be severe penalties.

2012
Florida Statute 253.04 Protection of Sovereign Submerged Lands passed
The Board of Trustees of the Internal Improvement Trust Fund is charged with the acquisition, administration, management, control, supervision, conservation, protection, and disposition of all lands owned by the state, including the lands required for certain purposes.

2013
Amendment to Florida Statute Chapter 373 Environmental Resource Permitting
An amendment requires an environmental resource permit (ERP) before land use or construction activity that could affect wetlands, also surface water flows, or could contribute to water pollution or the loss of fish. The ERP is administered by the Submerged Lands and Environmental Resources Program (SLERP), which is implemented by the FDEP and Florida water management districts.

2013
Florida Statute 161.054 & .055 Joint Coastal Permit passed
Broward County adopted its own ordinances and planning functions with those of environmental protection, emergency management and contractor protection and is formulated this entirely new department.

2008
The US Coast Guard amends anchorage regulations in Port Everglades
The amendment modified the current anchorage area by eliminating the northernmost anchorage area and the anchorage area that poses the risk to these areas, and limiting the amount of time a vessel may remain in the anchorage area.

2008
Creation of Broward County's Environmental Protection and Growth Management Department
Broward County adopted its own ordinances and planning functions with those of environmental protection, emergency management and contractor protection and is formulated this entirely new department.

2009
Advanced Wastewater Treatment (AWT) bill passed
Florida Legislature passed a bill to end dumping of treated wastewater into the reefs of Southeast Florida. Wastewater must meet the highest standard of treatment by December 31, 2025, and by 2018 achieve at least 60% reuse of the wastewater by 2025. Violators will be fined $1,000 per day per violation and use of the pipes will be prohibited after the 2025 date.

2009
Boynton-Delray Beach outfall shut off
The outfall was shut off since the passage of new legislation regulating wastewater disposal due to the effects on 67 city of Tokyo, Reef Rescue, and other environmental groups that have worked for over 10 years to end the dumping of treated wastewater into the reefs of Southeast Florida. Violators, such as the City of Pompano Beach, Hollywood, North Miami, and Virginia Key, is planned to be shut down by 2025.

2009
Surface Water Quality Standards updated
The 365.000, Turbidity control revised 09 Supplementary Turbidity Units (STUs) above natural background criteria in Class II waters (< 5 Waters.