

RMA	Long Titles
S-125	Amend 403.93345 Statute of the Coral Reef Protection Act to allow FWC Officers discretion to issue a citation or a warning for reef damage, which includes anchoring, to give FWC officers more discretionary authority in enforcement.
S-10	Restore inshore habitat by offering homeowners incentive to regrow mangrove etc. and adding artificial structure under docks to increase fishery habitat and increase water quality
S-81	Increase law enforcement capability at the county and city levels to increase reef protection at local levels
N-19	Update NOAA Nautical Charts to include reef habitat layers to create a better educated boater.
S-21	Designate the southeast Florida coral reef tract as a marine protected area to reduce threats to the reefs and protect them for future generations.
N-92	Modify flood control program (i.e. fresh water) releases of SFWMD to increase emphasis on environmental impacts and reduce harmful impacts to coral reef ecosystem.
S-70	Establish county marine ecological reserves connecting inshore to offshore reefs with 15 km wide bands (centered in North Dade, Commercial Ave in Broward, and south of West Palm Beach) to better protect reef habitats and reef fishes, enhance non-extractive activities (diving, tourism, research, education, recreation), reduce fishing stress on reef fishes, and allow assessment of influences of water quality versus fishing impacts.
S-117	Create oversight committee for coastal construction projects/permits to provide checks and balances/accountability to prevent impacts to reefs, or address them if they do occur.
S-29	Replace all septic systems with common sewer hookups to prevent defective septic systems from adding contaminated sewage that becomes runoff into our ocean
N-96	Provide financial incentives for land owners who convert to "ocean-friendly" landscaping, especially the conversion of golf courses and lawns to a native paspalum turf to reduce pollutants to reefs and conserve water.
N-42	
S-56	
N-122	
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S-111	
N-108	

RMA TYPE	Total "points" by Type
LBSP	72
ENFORCEMENT	42
ED/OUTREACH	37
MICCI	36
PLACE-BASED	24
CORAL REEF HABITAT	20
FDOU	5
UNASSIGNED	1

N-129	
S-31	
S-33	
N-73	
S-41	
S-46	
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ENFORCEMENT

Code & Title	Recommended Management Actions
S-125 Amend 403.93345 Statute of the Coral Reef Protection	Amend 403.93345 Statute of the Coral Reef Protection Act to allow FWC Officers discretion to issue a citation or a warning for reef damage, which includes anchoring, to give FWC officers more discretionary authority in enforcement.
N-42 Require environmental compliance personnel to be present during coastal construction activities	Require environmental compliance personnel to be present at all time during coastal construction activities to increase permit condition compliance.
S-81 Increase law enforcement capability	Increase law enforcement capability at the county and city levels to increase reef protection at local levels
S-35 Improve enforcement of stormwater rules	Improve enforcement of storm water rules and regulations to improve water quality and minimize land-based sources of erosion

CORAL REEF HABITAT ECOSYSTEM

Code & Title	Recommended Management Actions
S-6 Develop guidelines for artificial reefs	Develop guidelines and policies for what qualifies f6.13 or an artificial reefs (i.e. materials) and policy for where artificial reefs should be installed to protect the existing southeast Florida coral reefs
S-10 Restore inshore habitat through mangrove growth incentives	Restore inshore habitat by offering homeowners incentive to regrow mangrove etc. and adding artificial structure under docks to increase fishery habitat and increase water quality
S-14 Expand research into human impacts	Expand research into human impacts to coral reef ecosystems to provide information for better management of coral reef ecosystems
N-141 Develop and distribute easily understandable apps and technology resource maps	Develop and distribute easily understandable apps and technology resource maps that show boundaries of different use areas, resource areas, mooring buoy locations, and zone boundaries to enhance voluntary stewardship.

LAND-BASED SOURCES OF POLLUTION

Code & Title	Recommended Management Actions
S-27 Update replace wastewater	Update and replace waste water infrastructure to improve water quality
S-29 Replace all septic systems	Replace all septic systems with common sewer hookups to prevent defective septic systems from adding contaminated sewage that becomes runoff into our ocean
S-30 Establish sewage treatment regulation	Establish sewage treatment regulations (like Monroe County) to decrease adverse effects on water quality
S-31 Improve sewage and solid waste disposal	Improve sewage and solid waste disposal services at marinas, including recyclables, to prevent possible dumping into water that leads to the ocean and reefs
S-33 Improve construction of water reservoirs	Improve constructing additional water storage reservoirs, storm water treatment areas, flow equalization basins, appropriate technologies to reduce nutrient levels before water is released to southeast Florida estuaries, and modulate salinity changes in estuaries to improve water quality and supply.

LAND-BASED SOURCES OF POLLUTION

Code & Title	Recommended Management Actions
S-36 Develop a committee to test nitrogen runoff	Develop a committee and institute funding to oversee frequent testing for nitrogen runoff to limit deadly nitrogen exposure for coral reefs.
S-39 Implement easier regulations for beach cleanups	Implement easier regulations for organized beach cleanups (county-wide) to increase number of planned beach cleanups to clean up the beaches and keep it clean.
S-40 Develop/Improve water quality monitoring	Develop/Improve water quality monitoring to include offshore reef areas to track wastewater on reef and improve water quality.
S-41 Develop TMDLs	Develop TMDLs and mass balance for water going to tide to make informed management decisions.
S-42 Reduce yard clippings	Reduce yard clippings and other yard waste from entering water to improve water quality and reduce nutrients in estuarine habitats.
S-43 Provide additional recycle bins	Provide additional recycle bins and trash cans on beaches and waterside parks to reduce pollution.
S-45 Florida deposit for plastic	Florida deposit for plastic and glass bottles to reduce plastic in the ocean and on reefs.
S-46 Use existing BMPs for stormwater	Use existing BMPs to retrofit stormwater runoff to have less damage from runoff impact on reefs.
S-47 Create a city-wide compost program	Create a city-wide compost program where people can give or take as need to reduce the use of fertilizer.
S-48 Remove phosphate damaging chemical treatments	Remove phosphate damaging chemical treatments and fertilizers in south Florida through legislation per the Florida Keys to reduce LBSP washing out to the coral ecosystem
N-67 Evaluate water quality criteria	Evaluate water quality criteria leading to the creation of a numerical value for reef ecosystem protection to improve water quality and reef protection.
N-73 Provide storm water treatment institute program	Provide storm water treatment institute program to treat storm water including catch basins/French drains and living shoreline projects to improve water quality that gets to the reef.
N-77 Enact a Florida Aquifer Protection Act	Enact a Florida Aquifer Protection Act that utilizes a GIS database and establish guidelines to regulate pollutants introduced into the aquifer to reduce the impact of land-based sources of pollution.

LAND-BASED SOURCES OF POLLUTION

Code & Title	Recommended Management Actions
N-83 Support and provide money for conversions from septic systems	Support and provide money for conversions from septic systems to regional waste systems for properties that adversely affect estuaries to restore healthy estuaries.
N-91 Improve water quality testing by county health departments	Improve water quality testing by county health departments by including samples of inlet water during outgoing tides to monitor more accurately the impacts of land based sources of pollution on reefs.
N-92 Modify flood control program (i.e. fresh water) releases of SFWMD	Modify flood control program (i.e. fresh water) releases of SFWMD to increase emphasis on environmental impacts and reduce harmful impacts to coral reef ecosystem.
N-93 Develop and enforce new regulations that manage the use of toxic marine products	Develop and enforce new regulations that manage the use of toxic marine products (e.g. anti-fouling products) to reduce pollutant impacts on reef ecosystems.
N-95 Acquire and designate additional land for water storage	Acquire and designate additional land for water storage and filtration to remove pollutants and recharge the aquifers.
N-96 Provide financial incentives for land owners who convert to "ocean-friendly" landscaping	Provide financial incentives for land owners who convert to "ocean-friendly" landscaping, especially the conversion of golf courses and lawns to a native paspalum turf to reduce pollutants to reefs and conserve water.

EDUCATION, OUTREACH, AWARENESS, AND APPRECIATION

Code & Title	Recommended Management Actions
S-53 Create program for coastal and non-coastal communities	Create an education/outreach program for coastal and non-coastal communities to take conservation actions to protect reef health to raise environmental awareness and educate all south Floridians to empower their improved habits.
S-56 Develop coral ecosystem education for political entities	Develop coral ecosystem education for political entities and elected officials who can implement policy and fund regulation enforcement to legally and economically protect the coral ecosystem
S-57 Institute state-wide educational program about MPAs	Institute a statewide educational program about the marine protected area, mandatory brochures given out with training, and a test must be passed when people apply for a boating and fishing license to educate the public.
S-58 Improve accountability by creating nonprofit citizen science watchdog	Improve accountability and education of the south Florida population by creating a nonprofit citizen science watchdog group to aid in enforcement to help reduce human impacts to coral reefs.
S-61 Fund a document on saving reefs from recreational boating	Fund a document on saving and protecting coral reef ecosystems from recreational boating uses that is given to all new vessel registration/renewals to educate boaters on how to protect the use of coral reef habitat systems.
S-62 Increase signage at marinas	Increase signage at marinas, ramps, and beach access points on fishery regulations and anchoring techniques / CRPA to increase awareness of BMPs.

EDUCATION, OUTREACH, AWARENESS, AND APPRECIATION

Code & Title	Recommended Management Actions
N-9 Develop "in your face" education for dive shops	Develop "in your face" education for dive shops to engage divers who only come in for fills and promote better behavior by divers on private boats.
N-13 Develop outreach and education for SFWMD area (Orlando-Kissimmee)	Develop outreach and education for SFWMD area that educates the region (Orlando-Kissimmee) on reef impacts from remote areas (aka "follow the drop") to increase the connection to reefs to better behaviors regarding water quality.
N-16 Incorporate and promote coral reef awareness and education to augment Clean Marina Programs	Incorporate and promote coral reef (specifically SEFCRI Region) awareness and education and coral-specific boater and marina BMPs to augment Clean Marina Programs.
N-19 Update NOAA Nautical Charts with reef habitat	Update NOAA Nautical Charts to include reef habitat layers to create a better educated boater.
N-20 Develop educational materials for chamber of commerce	Develop educational materials targeted to chamber of commerce members to raise awareness and influence behavior change to reduce impacts to reefs from local businesses.

FISHING, DIVING, BOATING, AND OTHER USES

Code & Title	Recommended Management Actions
S-72 Monitor reefs in no-take areas	Monitor reef fauna and flora in no-take areas with comparable control areas with robust statistical designs to demonstrate effectiveness of no-take areas in restoring fish, corals, and other reef fauna and flora.
S-77 Mandate quiz prior to licensing	Mandate quiz prior to licensing for fishing, lobstering etc. to reduce violations through awareness.
S-88 Decrease recreational limit and season length for lobster	Decrease recreational limit and season length for lobster to rebuild lobster stock and reduce incidental reef damage.
S-90 Establish rotational use for popular dive sites	Establish rotational use for popular local dive sites to allow for coral reef and biomass recovery
N-50 Develop commercial traps for lionfish	Develop for commercial traps for Lionfish to increase pressure to current Lionfish populations, relieve existing pressure to juvenile fish and shellfish populations, rebuild native reef populations, and provide a new source of sustainability to commercial fishermen.
N-66 Coordinate release of federal and state regulator changes of sport commercial fish	Coordinate release of federal and state regulator changes of sport commercial fish (annually) to reduce in confusion of regulations (laws).

MARITIME INDUSTRY, COASTAL CONSTRUCTION, AND COASTAL MGMT

Code & Title	Recommended Management Actions
S-111 Change shipping lanes	Change shipping lanes in and out of Ft. Lauderdale and Miami to steer well clear of coral reefs (offshore shipping lanes not port entrance) to create less change of damage to and introduction of coral disease pathogens.
S-109 Develop stricter building permits	Develop and implement new and stricter building permits and codes to protect coral reefs.

MARITIME INDUSTRY, COASTAL CONSTRUCTION, AND COASTAL MGMT

Code & Title	Recommended Management Actions
S-112 Provide assistance for land acquisition projects	Provide assistance for the state to engage in land acquisition projects to limit shoreline industry and maintain coastal wetlands to protect mangroves and coral reefs.
S-113 Propose legislation to protect reefs from drilling	Propose and execute legislation to protect southeast Florida coral reef tract from offshore drilling and drilling exploration to prevent chance of oil and chemicals in the marine protected area.
S-117 Create oversight committee for coastal construction projects	Create oversight committee for coastal construction projects/permits to provide checks and balances/accountability to prevent impacts to reefs, or address them if they do occur.
S-118 Require coastal construction projects to contribute to public interest	Require coastal construction projects to contribute to public interest and environmental benefits as a source and mechanism for support of ecosystem improvement and offsets impacts from the construction project.
S-119 Define "current" data in the scoping and permitting of construction projects	Define what is considered "current" data in the scoping and permitting of coastal construction because projects will not be permitted based on outdated information.
N-101 Require coastal construction projects to provide net positive environmental gain	Coordinate release of federal and state regulator changes of sport commercial fish (annually) to reduce in confusion of regulations (laws).
N-103 Monitor coral reef flora and fauna on a semi-annual basis	Monitor coral reef flora and fauna on a semi-annual basis to monitor coral reef vegetation and doing a species count gives an account of the health of the coral reef.
N 104 Include reef impacts and restoration goals in CERP	Include reef impacts and restoration goals in CERP to gain visibility, broaden public support, and increase legislative leverage for increase health of FRT.
N-105 Require and provide money for long-range planning for sand bypassing at inlets	Require and provide money for long-range planning for sand bypassing at inlets to reduce overall costs and avoid adverse ecological impacts associated with intermittent large-scale dredge projects.
N-107 Strengthen coastal construction permitting requirements	Strengthen coastal construction permitting requirements to promote minimally destructive methods to minimize direct impacts.
N-108 Establish regional oversight committee	Establish regional oversight committee to ensure marine/coastal construction utilize state of the art BMP to reduce direct and indirect impacts to reefs.
N-109 Require coastal construction contractors to post surety bonds	Require coastal construction contractors to post surety bonds to ensure financial viability for mitigation and restoration.
N-111 Reassess permit and penalty fees	Reassess permit and penalty fees to determine if they are adequate to compensate ecosystem services to better fund restoration and studies.
N-112 Perform economic study of reefs	Perform economic study of reefs to better quantify value of coral reefs to improve ability to explain why reefs matter - compliance - support - funding
N-118 Revise coastal permitting process to restrict or limit development when corals are more susceptible to impacts	Include reef impacts and restoration goals in CERP to gain visibility, broaden public support, and increase legislative leverage for increase health of FRT.
N-122 Revise Florida's coastal construction control line (CCCL)	Revise Florida's coastal construction control line (CCCL) based on the 2060 predictions for sea-level rise to educate coastal landowners about how coastal construction impacts nearshore reefs.

MARITIME INDUSTRY, COASTAL CONSTRUCTION, AND COASTAL MGMT

Code & Title	Recommended Management Actions
N-127 Improve permit conditions and BMPs for coastal construction	Improve permit conditions and BMPs for coastal construction using recommendations from past monitoring (turbidity, sedimentation, and hardbottom) results to reduce negative impacts to reefs from future construction projects.
N-129 Increase ICW restoration/habitat creation projects	Increase ICW restoration/habitat creation projects (oyster/mangrove/artificial) to improve water quality from inland to reefs.
N-130 Eliminate/discourage government subsidies/funds to rebuild substantial storm damaged structures	Eliminate/discourage government subsidies/funds to rebuild substantial storm damaged structures near coast in same area/footprint to project the shoreline.
N-131 Increase and protect public access	Increase and protect public access for sustainable use of coastal resources to increase appreciation of reef resources (and their value) by the general public.

PLACE-BASED

Code & Title	Recommended Management Actions
S-19 Prioritize county offshore marine areas	Prioritize county offshore marine areas for increased protection to reduce reef habitat stress and extraction pressure; enhance tourism and non-extractive recreation; promote public education, appreciation, and understanding; accelerate coral reef recovery; and define priority areas for diving and snorkeling.
S-21 Designate the southeast Florida coral reef as MPA	Designate the southeast Florida coral reef tract as a marine protected area to reduce threats to the reefs and protect them for future generations.
S-69 Designate a no-take area between Port Everglades jetty and Dania Pier	Designate a no-take area between Port Everglades jetty and Dania Pier to take advantage of John U. Lloyd Park and Navy range, to provide for conservation, and to benefit fishing at PE jetty and Dania Pier.
S-70 Establish county marine ecological reserves with 15 km wide bands	Establish county marine ecological reserves connecting inshore to offshore reefs with 15 km wide bands (centered in North Dade, Commercial Ave in Broward, and south of West Palm Beach) to better protect reef habitats and reef fishes, enhance non-extractive activities (diving, tourism, research, education, recreation), reduce fishing stress on reef fishes, and allow assessment of influences of water quality versus fishing impacts.
S-71 Modify shape of previously established no-take areas	Modify number, size, location, and shape of previously established no-take areas for restoration effectiveness after scientific monitoring for 5-10 years to efficiently and adaptively manage no-take designated resources for performance and impact.
S-4 Create research only ocean areas	Create "research-only" ocean areas to allow for scientific research to be conducted

UNASSIGNED

Code & Title	Recommended Management Actions
S-50 Implement communication and cooperation between local to federal agencies	Implement communication and cooperation between local, state, and federal agencies affecting coral ecosystems to improve economies of agencies' efforts, regulation, and enforcement.