

New Code	Focus Area	# Duplic.	Short Title	Mgmt. Action DRAFTS	CWGs Work Groups	Tier 1 Worksheet	Tier 2 Worksheet	Spatial Component?
N-1	Education, Outreach, Awareness & Appreciation	3	Educate the public on the effects of land-based sources of pollution	Educate the public on the effects of land-based sources of pollution to reduce the amount of pollutants entering storm drains and waterways	Tom Warnke Dave Anderson	YES		
N-2	Education, Outreach, Awareness & Appreciation	3	Develop a volunteer team	Develop a volunteer team (e.g. CSO or Dive Club) to educate, monitor/research, and remove debris and exotics.	Vincent Encomio; Nikole Ordway	YES	YES	
N-3	Education, Outreach, Awareness & Appreciation	2	Create annual coral reef festival	Create annual coral reef festival to raise awareness and funds for coral reefs and to engage residents and visitors.	Dave Anderson; Jeff Beal; April Price; Nikole Ordway	YES	YES	
N-4	Education, Outreach, Awareness & Appreciation	2	Develop public service announcement and signage	Develop public service announcement and signage (such as a traveling display) to include climate change and its affects, marine debris, etc. to educate public and highlight the value and vulnerability of southeast Florida reefs	Nikole Ordway	YES	YES	
N-5	Education, Outreach, Awareness & Appreciation	6	Develop and implement a Florida reefs and coastal ecosystems curriculum for K-12	Develop and implement a Florida reefs and coastal eco-systems curriculum for K through 12 that includes educating educators on resources available to provide science-based foundation for making future decisions to protect coral reefs and to also educate parents	Mitch Comiskey	YES	YES	

N-6	Education, Outreach, Awareness & Appreciation		Continue education and outreach about lionfish	Continue education and outreach about Lionfish, including teaching folks to capture and prepare Lionfish and educating the public on the dangers of invasive species, to increase pressure to Lionfish, relieve pressure on current reef fish, and decrease popularity of invasive species to pet owners.	Dave Anderson; April Price; Kathy Fitzpatrick	YES	Partial	
N-7	Education, Outreach, Awareness & Appreciation		Require online exam to purchase fishing license	Require online exam to people purchasing fishing license to test the knowledge of the people about the Coral Reef Protection Act, FWC Rules, and basic boating laws.	April Price; Nikole Ordway	YES	YES	
N-8	Education, Outreach, Awareness & Appreciation		Develop a public education campaign to encourage eco-friendly yard and garden maintenance	Develop a public education campaign, like "Be Floridian," to encourage eco-friendly yard and garden maintenance to help reduce the amount of nutrients and other pollutants reaching the reefs through residential run-off. (Better in LBSPWQ?)	Andrea Graves	YES	YES	
N-9	Education, Outreach, Awareness & Appreciation		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-10	Education, Outreach, Awareness & Appreciation		Designate high school students to do community service	Designate high school students to do at least 8 hours of community service that help ocean conservation to show future generations their role in keeping coral reefs.	Mitch Comiskey; Nikole Ordway	YES	YES	

N-11	Education, Outreach, Awareness & Appreciation		Engage elected officials in reef awareness	Engage elected officials and other decision-makers in reef awareness by having annual events focused on reef ecosystems to develop collaborative relationships with community leaders.	Kathy Fitzpatrick	YES	YES	
N-12	Education, Outreach, Awareness & Appreciation		Produce educational information for healthy reef practices	Produce educational information for health reef practices about the benefits of mooring buoys and how to anchor properly, safe and prudent dive practices, and how to identify reef safe products to increase public awareness and overall better stewardship of our reefs.	April Price; Nikole Ordway	YES	YES	
N-13	Education, Outreach, Awareness & Appreciation		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-14	Education, Outreach, Awareness & Appreciation		Develop and distribute educational materials on economic and recreational values	Develop and distribute educational materials highlighting the economic and recreational values of southeast Florida reefs to enhance awareness by residents, elected officials, and visitors.	Kathy Fitzpatrick; April Price; Vincent Encomio	YES	YES	
N-15	Education, Outreach, Awareness & Appreciation		Establish a community support organization	Establish a community supported organization (CSO) (i.e. Friends of SE FL Coral Reefs) to enable better community engagement in coral reef efforts and target funding for conservation activities more effectively and efficiently.	Dana Wusinich-Mendez;	YES		

N-16	Education, Outreach, Awareness & Appreciation		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.				Spatial Analysis Needed
N-17	Education, Outreach, Awareness & Appreciation		Create continuing education programs for targeted industries	Create continuing education programs for targeted industries with coastal projects to include landscaping to reduce negative coastal impacts.		YES		
N-18	Education, Outreach, Awareness & Appreciation		Develop culture-based fishery and coral reef education program	Develop culture-based fishery and coral reef education program (stakeholders <--> managers) to anticipate adverse impacts to non-traditional (Floridian) fishery populations.		YES		
N-19	Education, Outreach, Awareness & Appreciation		Update NOAA Nautical Charts with reef habitat	Update NOAA Nautical Charts to include reef habitat layers to create a better educated boater.	Carmen Vare			
N-20	Education, Outreach, Awareness & Appreciation		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.				
N-21	Education, Outreach, Awareness & Appreciation		Develop and distribute welcome packets for new FL residents	Develop and distribute welcome packets for new FL residents that provide information on impacts to reef systems and how they can be addressed to raise awareness and influence behavior change to reduce impacts to reefs.		YES		
N-22	Education, Outreach, Awareness & Appreciation		Market FWC hotline and SEAFAN reporting	Market a FWC hotline and SEAFAN reporting to better increase citizen observance.	Nikole Ordway	YES	YES	

N-23	Education, Outreach, Awareness & Appreciation		Create marine industry program (i.e. bluestar)	Create marine industry program (i.e. bluestar) to show local shops and boats are approved and participate in local marine conservation and awareness.	April Price; Nikole Ordway	YES	YES	
N-24	Education, Outreach, Awareness & Appreciation		Implement diver education program	Implement diver education program (local ecology) to reduce direct physical impacts to reefs. (Better in EOA?)	Mitch Comiskey; Nikole Ordway	YES	YES	
N-25	Enforcement	3	Strengthen penalties and fines	Strengthen penalties and fines for non-compliance of reef-related regulations to enhance voluntary stewardship, to discourage illegal activities, and to express that violations will not be tolerated.	Irene Arpayoglou	YES	YES	
N-26	Enforcement	2	Enforce existing reef and water quality regulations	Enforce existing reef and water quality regulations to improve water quality and reef health.		YES	YES	
N-27	Enforcement		Establish co-management agreements to address staff capacity gaps	Establish co-management agreements with capable and responsible local communities and NGOs to address staff capacity gaps at FWC and FDEP.	Vincent Encomio; Dana Wusinich-Mendez	YES		
N-28	Enforcement		Establish a single law enforcement entity	Establish a single law enforcement entity that has the responsibility for enforcement of local, state, and federal reef-related regulations to reduce duplication of effort or overlap and to increase efficiency.	Greg Braun	YES		
N-29	Enforcement		Increase retention and recruitment of enforcement officers	Increase retention and recruitment of enforcement officers in order to improve relationships with stakeholders as well as officers understanding of use and abuse in the areas they patrol.	Dana Wusinich-Mendez	YES		

N-30	Enforcement		Educate enforcement personnel and the public on reef-related regulations	Educate enforcement personnel and the public on reef-related regulations to provide better protection to the reefs.		YES		
N-31	Enforcement		Increase legal support for FWC	Increase legal support for FWC so officers can respond more effectively so that the officers have a greater impact to deter offenders since they are backed by the legal system.	April Price; Kathy Fitzpatrick	YES	YES	
N-32	Enforcement		Perform efficiency/retention study of the FWC law enforcement	Perform efficiency/retention study of the FWC law enforcement to ensure the best use of current and future funding to improve compliance of existing regulations.	Kathy Fitzpatrick; April Price	YES	YES	
N-33	Enforcement		Install webcams	Install webcams to catch offenders and keep people informed on weather and water conditions.	Mike Brescher	YES	YES	
N-34	Enforcement		Apply funds from vessel registration and fishing licenses to law enforcement and conservation	Apply funds from vessel registration and fishing licenses to increase money for law enforcement and conservation actions.	April Price; Nikole Ordway	YES		
N-35	Enforcement		Develop and implement a cross-training program for local law enforcement	Develop (by FWC) and implement a training program for local law enforcement to cross train marine units to increase law enforcement on the water, provide additional enforcement for peak periods, and increase presence in order to decrease marine-related violations and build relationships between agencies.	April Price; Greg Braun	YES	Partial	
N-36	Enforcement		Raise the cost of lobster stamps	Raise the cost of lobster stamp (both commercial and recreational) to use money to put towards enforcement of laws.	Nikole Ordway	YES	YES	

N-37	Enforcement		Improve existing FWC hotline	Improve existing FWC hotline to more efficiently report emergencies or violations, send pictures, and be able to report a problem to assist agencies to enforce the regulations that protect our coral reefs.	Mike Brescher	YES	YES	
N-38	Enforcement		Evaluate and enforce lighting regulations	Evaluate and enforce lighting regulations to make sure they are effectively protecting sea turtles.	Dave Anderson; Irene Arpayoglou	YES	YES	
N-40	Enforcement		Enforce illegal catches on piers, etc.	Enforce illegal catches on piers, jetties, docks, and beaches to increase fish stocks using these habitats.		YES	YES	
N-41	Enforcement		Collect a "reef impact fee"	Collect a "reef impact fee" to fund enforcement, education, and mitigation programs.		YES	YES	
N-42	Enforcement		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.	Tom Warnke Greg Braun			
N-43	Enforcement		Increase funding to recruit and retain for on-the-water enforcement officers/compliance personnel	Increase funding specifically designated to recruit and retain for on-the-water enforcement officers/compliance personnel to encourage voluntary compliance and effectively enforce regulations and improve recruitment and retention of officers.	Kathy Fitzpatrick; April Price; Tom Warnke	YES	YES	
N-44	Enforcement		Educate judges and prosecuting attorneys	Educate judges and prosecuting attorneys on the importance of imposing penalties for environmental violations that are severe enough to prevent future violations.	Dana Wusinich-Mendez	YES		

N-45	Enforcement		Require certification for fishing license and/or course for charter fishing boats	Require certification for fishing license and/or course for charter fishing boats to increase awareness to local laws and to promote ethical angling practices.		YES		
N-46	Enforcement		Require reef-related community service for resource violations	Require reef-related community service for resource violations to improve health of reef ecosystem and help educate the violator.		YES		
N-47	Fishing, Diving, Boating & Other Uses	2	Implement a lost gear removal program	Implement a lost gear removal program that allows user groups to report lost gear so it can be retrieved in a timely manner to prevent unnecessary loss of habitat.	April Price; Butch Olson	YES		
N-48	Fishing, Diving, Boating & Other Uses		Alternate years of mini season	Alternate years of mini season (e.g. odd years allow mini season, even years no allowance) to change population of lobsters so as to make this fishery more sustainable.	Nikole Ordway; Carman Vare	YES	YES	
N-49	Fishing, Diving, Boating & Other Uses		Eliminate lobster mini season	Eliminate lobster mini season to reduce damage to reef by overzealous divers.	Dave Anderson; Nikole Ordway; Mitch Comiskey; Lou Romano	YES	YES	
N-50	Fishing, Diving, Boating & Other Uses		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.	Jeff Beal; Kathy Fitzpatrick; April Price; Butch Olsen			

N-51	Fishing, Diving, Boating & Other Uses		Promote collaboration between fishing and diving industries	Promote collaboration between fishing and diving industries to help each party learn to respect the resources and their impact they can have on coral reefs.	Nikole Ordway	YES	YES	
N-53	Fishing, Diving, Boating & Other Uses		Prohibit the use of commercial nets that indiscriminately remove fish	Prohibit the use of commercial nets that indiscriminately remove fish and damage reef resources in designated areas to prevent adverse impacts.	Vincent Encomio; Butch Olson; April Price; Kathy Fitzpatrick;	YES		Spatial Analysis Needed
N-54	Fishing, Diving, Boating & Other Uses		Install weather reporting equipment	Install weather reporting equipment to assist law enforcement and mariners before venturing out to assist in knowing the conditions, traffic, and use of the reefs at any given time.	Vincent Encomio; Tom Warnke; Mike Brescher	YES	YES	Spatial Analysis Needed
N-55	Fishing, Diving, Boating & Other Uses		Limit the number of lobsters allowed on mini season	Limit the number of lobsters allowed on mini season and number of lobster permits to reduce the take during this two-day period.	Nikole Ordway; Lou Romano	YES	YES	
N-58	Fishing, Diving, Boating & Other Uses		Support efforts to control invasive lionfish	Support efforts to control invasive Lionfish on reefs and estuaries to decrease predation on native species.	April Price; Nikole Ordway; Kathy Fitzpatrick	YES	YES	
N-59	Fishing, Diving, Boating & Other Uses		Ban the practice of spearfishing on SCUBA	Ban the practice of spearfishing on SCUBA to enable sustainable use of our Florida Reefs.	Dana Wusinich-Mendez Dave Anderson	YES		

N-60	Fishing, Diving, Boating & Other Uses		Identify and implement fisheries management measures in the SEFCRI region	Identify and implement fisheries management measures in the SEFCRI Region to increase the population and size of individuals of snapper, grouper and other important reef fish. This should be based on data from the 3 year reef visual census conducted by FDEP, NOVA SE University, and Partners and fisheries dependent data.	Butch Olson; April Price; Kathy Fitzpatrick	YES	YES	
N-61	Fishing, Diving, Boating & Other Uses		Regulate take of parrotfish on the reef	Regulate take of parrot fish on the reef and nearshore habitats to increase the population of herbivores on the reef.	Lou Romano	YES		
N-62	Fishing, Diving, Boating & Other Uses	1	Require commercial operators to provide educational info to patrons	Require commercial operators (diving, fishing, sightseeing, tours, etc.) to provide educational info to patrons to promote ethical stewardship of all marine ecosystems (including reefs and everglades).	Carmen Vare	YES		
N-63	Fishing, Diving, Boating & Other Uses		Maintain legislature that bans net fishing in shallow water	Maintain legislature that bans net fishing in shallow water to eliminate the fishing equipment that end up on the reefs.	Butch Olson; April Price; Kathy Fitzpatrick	YES	YES	
N-64	Fishing, Diving, Boating & Other Uses		Require registration of commercial fishing gear	Require registration of commercial fishing gear (all nets and traps) to prevent and track lost gear (ghost nets).	Butch Olson; Kathy Fitzpatrick; April Price	YES		

N-65	Fishing, Diving, Boating & Other Uses		Standardize catch size limits for commercial/recreational important species	Standardize catch size limits for commercial/recreational important species with similar life histories and appearance to make it easier to enforce regulations and catch within limits.	Butch Olson; Kathy Fitzpatrick; April Price	YES		
N-66	Fishing, Diving, Boating & Other Uses		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).	Butch Olson; Kathy Fitzpatrick; April Price			
N-67	Land-Based Sources of Pollution	2	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.	Nikole Ordway			
N-68	Land-Based Sources of Pollution	2	Reduce and regulate fertilizers and pesticides	Reduce and regulate fertilizers and pesticides to reduce nutrient and pollutant loading to improve water quality and provide protection to the reefs.	Tom Warnke Dave Anderson	YES		
N-69	Land-Based Sources of Pollution	3	Support and provide money incentives and initiatives to restore and preserve wetlands north of Lake O	Support and provide money incentives and initiatives to restore and preserve wetlands north of Lake O to stop discharges to coastal estuaries to protect estuaries and reefs.	Greg Braun	YES		
N-70	Land-Based Sources of Pollution	3	Restore and create estuarine habitats	Restore and create estuarine habitats and redirect historical freshwater flows to increase habitat, improve water quality, and support nursery areas for reef fauna.	Jeff Beal; Greg Braun Carmen Vare; Vincent Encomio	YES		

N-71	Land-Based Sources of Pollution	2	Develop and implement a monitoring program for inlet pollution	Develop and implement a monitoring program to detect, identify, and eliminate sources of pollution flowing through inlets to improve water quality and protection to reef.	Vincent Encomio	YES		
N-72	Land-Based Sources of Pollution		Stop land-based sources of pollution	Stop land-based sources of pollution to protect near shore reefs from pollution.	Dave Anderson	YES		
N-73	Land-Based Sources of Pollution		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.	Carmen Vare			
N-74	Land-Based Sources of Pollution		Reduce nutrient content of freshwater runoff	Reduce nutrient content of freshwater runoff to improve water quality and reduce algae on the reef.		YES		
N-75	Land-Based Sources of Pollution		Promote/offer free pump out stations	Promote/offer free pump out stations to better water quality and allow boats a better option than dumping off shore.	Kathy Fitzpatrick; April Price	YES	YES	
N-76	Land-Based Sources of Pollution		Require increased setbacks	Require increased setbacks whenever waterfront properties are redeveloped to reduce the potential for adverse impacts.		YES		
N-77	Land-Based Sources of Pollution		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.	Tom Warnke			

N-78	Land-Based Sources of Pollution		Reduce ground water pollution in targeted watersheds	Reduce ground water pollution in targeted watersheds associated with priority reef areas to improve water quality and reef health. (For Tier 2 data sheet --> will require research to identify relative contribution of groundwater pollution).	Dana Wusinich-Mendez	YES		Spatial Analysis Needed
N-79	Land-Based Sources of Pollution	1	Upgrade regional wastewater treatment outputs	Upgrade regional wastewater treatment outputs to prevent introduction of pollutants to improve water quality.	Tom Warnke; Richard Harvey; Nikole Ordway	YES		
N-80	Land-Based Sources of Pollution	2	Ensure the timely closure of all sewer outfalls	Ensure the timely closure of all sewer outfalls in the SEFCRI region to end the direct release of wastewater onto the coral reefs.	Richard Harvey; Carmen Vare	YES		
N-81	Land-Based Sources of Pollution		Create storm water catchment areas	Create storm water catchment areas with enhanced capacities to clean water in order to reduce the amounts of and improve the quality of fresh water released to sea.		YES		Spatial Analysis Needed
N-82	Land-Based Sources of Pollution	1	Support initiatives that increase storm water storage, treatment and contaminant removal	Support initiatives that increase storm water storage, treatment and contaminant removal and reuse from all surface water to restore healthy estuaries.	Greg Braun	YES		
N-83	Land-Based Sources of Pollution		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.	Richard Harvey; Greg Braun Kathy Fitzpatrick			

N-84	Land-Based Sources of Pollution		Reduce storm water runoff in targeted watersheds	Reduce storm water runoff in targeted watersheds or inlet contributing areas associated with priority reef areas to improve water quality and reef health.	Dana Wusinich-Mendez	YES		Spatial Analysis Needed
N-85	Land-Based Sources of Pollution		Require governmental entities to ID and retrofit point-source inputs into estuaries	Require governmental entities to ID point-source inputs into estuaries and retro-fit them as needed to reduce pollutant loadings to restore health estuaries.	Tom Warnke Greg Braun	YES		
N-86	Land-Based Sources of Pollution		Regulate point-specific water quality discharge	Regulate point-specific water quality discharge (Regulating the quality of water discharges from facilities, such as power plants, and their proximity to coral reefs helps know stress factors on the reef. Poor water quality = unhealthy reef).	Mike Brescher	YES	YES	
N-87	Land-Based Sources of Pollution		Promote existing "rain garden" programs	Promote existing "rain garden" programs to relevant landowners to reduce rainwater runoff and the chemical load of water released to sea.		YES	YES	
N-88	Land-Based Sources of Pollution		Increase FDEP field staff capacity to monitor all beach and coastal projects	Increase FDEP field staff capacity to monitor all beach and coastal projects and beach closures related to water quality to ensure permit compliance and minimize impacts to reef ecosystem.	Irene Arpayoglou Dana Wusinich-Mendez Kathy Fitzpatrick; J.W.	YES		
N-89	Land-Based Sources of Pollution		Establish partnerships with local government to uphold restrictions on fertilizer ordinances	Establish partnerships with local government to uphold restrictions on seasonal use of fertilizer ordinances to reduce nutrient load on reefs.	Irene Arpayoglou Kathy Fitzpatrick	YES		

N-90	Land-Based Sources of Pollution		Direct funds from the water and land legacy amendment	Direct funds from the water and land legacy amendment toward acquiring properties that will help preserve and restore coastal/wetland habitats to benefit coral reefs.	Greg Braun	YES		
N-91	Land-Based Sources of Pollution		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.	Tom Warnke			
N-92	Land-Based Sources of Pollution		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.	Greg Braun			
N-93	Land-Based Sources of Pollution		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.	Carmen Vare			
N-94	Land-Based Sources of Pollution		Develop and implement a "Green Club TM" certification program for golf courses	Develop and implement a "Green Club TM" certification program for golf courses (similar to Blue Star for dive industry and clean marina programs) to provide an incentive mechanism for golf courses to reduce their impact on marine environment.	Dana Wusinich-Mendez	YES		
N-95	Land-Based Sources of Pollution		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.	Greg Braun			

N-96	Land-Based Sources of Pollution		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.	Tom Warnke			
N-97	Land-Based Sources of Pollution	1	Target LBSP reduction activities at identified hotspots	Target LBSP reduction activities at identified hotspots and water shed of nonpoint source pollution along SEFCRI reef tract to improve water quality and reef health.	Dana Wusinich-Mendez; Mike Brescher	YES	YES	Spatial Analysis Needed
N-98	Maritime Industry, Coastal Construction, & Coastal Management	2	Develop, fund, and implement beach management plan	Develop, fund, and implement a SEFCRI-wide beach management plan for sustainable management of beaches and to protect and minimize impacts to reefs from turbidity caused by erosion.	Andrea Graves; Kathy Fitzpatrick	YES	YES	
N-99	Maritime Industry, Coastal Construction, & Coastal Management	2	Designate a mitigation bank and fee program for development projects	Designate a mitigation bank and fee program for development projects in SEFCRI region to offset impacts of development to reef ecosystem and fund its management and restoration.	Irene Arpayoglou Andrea Graves	YES	YES	
N-101	Maritime Industry, Coastal Construction, & Coastal Management		Require coastal construction projects to provide net positive environmental gain	Require coastal construction projects to provide a net positive environmental gain to increase sustainability.	Irene Arpayoglou			
N-102	Maritime Industry, Coastal Construction, & Coastal Management		Install permanent erosion stabilizers	Install permanent erosion stabilizers (undercurrent stabilizers) to eliminate silting caused by constant beach renourishment.	Mitch Comiskey	YES		

N-103	Maritime Industry, Coastal Construction, & Coastal Management		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.				Spatial Analysis Needed
N-104	Maritime Industry, Coastal Construction, & Coastal Management		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.	Jeff Beal			
N-105	Maritime Industry, Coastal Construction, & Coastal Management		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.	Tom Warnke; Greg Braun			
N-106	Maritime Industry, Coastal Construction, & Coastal Management		Minimize the use of beach renourishment and other coastal construction	Minimize the use of beach renourishment and other coastal construction projects to prevent negative impacts and destruction of near shore environments.	Carmen Vare; Dave Anderson	YES		
N-107	Maritime Industry, Coastal Construction, & Coastal Management		Strengthen coastal construction permitting requirements	Strengthen coastal construction permitting requirements to promote minimally destructive methods to minimize direct impacts.	Tom Warnke			
N-108	Maritime Industry, Coastal Construction, & Coastal Management		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.	Tom Warnke			
N-109	Maritime Industry, Coastal Construction, & Coastal Management		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-110	Maritime Industry, Coastal Construction, & Coastal Management		Enable movement of natural sand transport via seagoing dredge vessels	Enable movement of natural sand transport, interrupted by construction of inlets, via dedicated, moveable, seagoing dredge vessels similar to Hillsboro Inlet District, to help eliminate wasteful and harmful dredge and fill projects.	Tom Warnke Kathy Fitzpatrick	YES		
N-111	Maritime Industry, Coastal Construction, & Coastal Management		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	Maritime Industry, Coastal Construction, & Coastal Management		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-113	Maritime Industry, Coastal Construction, & Coastal Management		Eliminate Lake Worth inlet dredging project	Eliminate Lake Worth inlet dredging project to reduce siltation on coral reefs and keep coastal communities and habitat in balance.	Nikole Ordway	YES	YES	
N-114	Maritime Industry, Coastal Construction, & Coastal Management		Reinstate funding for regulatory agencies to monitor reefs	Reinstate funding for regulatory agencies (reinstate FDEP Dive Teams throughout the state) to monitor reefs, asses potential impacts, assist other agencies (fish/coral surveys) with protection and monitoring.	Irene Arpayoglou	YES	YES	
N-115	Maritime Industry, Coastal Construction, & Coastal Management		Restore and enhance coral reef and nearshore hardbottom habitats	Restore and enhance coral reef and nearshore hardbottom habitats to maintain and improve ecosystem services, such as fisheries, tourism, and shoreline protection.	Andrea Graves	YES		Spatial Analysis Needed

N-116	Maritime Industry, Coastal Construction, & Coastal Management		Coordinate regional "living shoreline" objectives	Coordinate regional "living shoreline" objectives to promote the use and protection of natural infrastructure (e.g. coral reefs, native vegetations, mangrove wetlands) to provide natural barriers to storm surge and maintain coastal biodiversity.	Andrea Graves; Vincent Encomio	YES		Spatial Analysis Needed
N-117	Maritime Industry, Coastal Construction, & Coastal Management		Revise coastal permitting process to establish a no net loss of coral	Revise coastal permitting process to establish a no net loss of coral from development projects practice to minimize impacts of development on reef systems.	Dana Wusinich-Mendez	YES		
N-118	Maritime Industry, Coastal Construction, & Coastal Management		Revise coastal permitting process to restrict or limit development when corals are more susceptible to impacts	Revise coastal permitting process to restrict or limit development and coastal construction projects activity during periods when corals are more susceptible to impacts (ie. Bleaching, spawning, other disturbance events) to reduce cumulative impacts to reefs.	Irene Arpayoglou			
N-119	Maritime Industry, Coastal Construction, & Coastal Management		Improve capacity of army corps of engineers to monitor and enforce coastal and beach projects	Improve capacity of army corps of engineers to monitor and enforce coastal and beach projects to improve compliance with permit conditions and minimize impacts to reef systems.	Dana Wusinich-Mendez	YES		
N-120	Maritime Industry, Coastal Construction, & Coastal Management		Pass legislation to ban one-time-use plastic bags	Pass legislation to ban one-time-use plastic bags to protect marine environment (i.e. turtles).	Dave Anderson; Nikole Ordway	YES	YES	
N-121	Maritime Industry, Coastal Construction, & Coastal Management		Pass legislation restricting the use of "single-use plastics"	Pass legislation restricting the use of "single-use plastics" to limit harm to numerous species of coral reef animals and plants.		YES		

N-122	Maritime Industry, Coastal Construction, & Coastal Management		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.	Tom Warnke			
N-123	Maritime Industry, Coastal Construction, & Coastal Management		Develop a sustainable finance plan	Develop a sustainable finance plan to support coral reef conservation efforts in the SEFCRI Region and implement specific fundraising mechanisms from that plan. Could include benefit races, concerts...this would increase local capacity to conserve SEFCRI coral reef resources.	Dana Wusinich-Mendez	YES		
N-124	Maritime Industry, Coastal Construction, & Coastal Management		Increase protection of wrack line	Increase protection of wrack line to reduce erosion of beach to provide nutrients for critters.	Dave Anderson; Tom Warnke	YES		
N-125	Maritime Industry, Coastal Construction, & Coastal Management		Reduce negative impacts from beach raking/cleanup	Reduce negative impacts from beach raking/cleanup practices to provide ecological benefits to beach ecosystem.	Dave Anderson	YES		
N-127	Maritime Industry, Coastal Construction, & Coastal Management		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-128	Maritime Industry, Coastal Construction, & Coastal Management		Increase the total area of mangrove, seagrass, oyster beds, corals and other habitats	Increase the total area of mangrove, sea grass, oyster beds, corals and other habitats to restore the natural ecosystem's ability to improve water quality.	Lee shepherd; Vincent Encomio.; Andrea Graves	YES		Spatial Analysis Needed
N-129	Maritime Industry, Coastal Construction, & Coastal Management		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	Maritime Industry, Coastal Construction, & Coastal Management		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	Maritime Industry, Coastal Construction, & Coastal Management		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.	Tom Warnke			
N-132	Maritime Industry, Coastal Construction, & Coastal Management		Improve compliance/enforcement of mitigation projects	Improve compliance/enforcement of mitigation projects by monitoring results to hold agencies/project sponsors accountable.	Irene Arpayoglou; Vincent Encomio	YES		
N-133	Direct Impacts to Coral Reef Ecosystem	6	Establish mooring buoys and anchoring areas	Establish mooring buoys and anchoring areas at appropriate locations to prevent adverse impacts, and are preferred by boaters.	Butch Olsen; Kathy Fitzpatrick; Jeff Beal; April Price	YES	YES	Spatial Analysis Needed

N-134	Direct Impacts to Coral Reef Ecosystem	2	Install marker buoys to clearly designate the boundaries of different use areas	Install marker buoys (to include lighted and marked beacons) to clearly designate the boundaries of different use areas to enhance the abilities of enforcement personnel to do their job and for boaters to identify protected areas. (Better in Enforcement?)	Mike Brescher	YES	YES	
N-135	Direct Impacts to Coral Reef Ecosystem		Develop and implement emergency preparedness plans	Develop and implement emergency preparedness plans for rapid response/restoration prior to significant impacts to minimize long-term damage.		YES		
N-136	Direct Impacts to Coral Reef Ecosystem		Establish invasive species control strategy	Establish invasive species control strategy and increase/target removal to reduce stress to reef ecosystem.	Kathy Fitzpatrick; April Price; Dave Anderson	YES	Partial	
N-138	Direct Impacts to Coral Reef Ecosystem		Conduct reef, waterway, and beach clean-ups	Conduct reef, waterway, and beach clean-ups to remove debris and promote reef-sensitive use to minimize adverse impacts.	April Price; Lou Romano	YES		
N-139	Direct Impacts to Coral Reef Ecosystem		Include bathtub reef or other near shore hard bottom N. of St. Lucie Inlet as part of management	Include bathtub reef or other near shore hard bottom N. of St. Lucie Inlet as part of management of southeast Florida reef tract to provide a buffer for coral migration or range expansion I in the face of climate change.	Vincent Encomio	YES		Spatial Analysis Needed
N-140	Direct Impacts to Coral Reef Ecosystem		Restrict anchoring in preserve	Restrict anchoring in preserve to encourage the use of the mooring buoys and internally control the number of divers on each reef to prevent anchor and chain scaring to the reefs.	Mike Brescher; Kathy Fitzpatrick; Butch Olsen; April Price;	YES	YES	Spatial Analysis Needed

N-141	Direct Impacts to Coral Reef Ecosystem		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.	Greg Braun			
N-142	Direct Impacts to Coral Reef Ecosystem		Install a limited number of mooring buoys	Install a limited number of mooring buoys to limit the number of divers that would place stress on the reef as mooring buoys do not stop anchoring to create a procedure to regulate and monitor the users.	Carman Vare; Mike Brescher; April Price; Butch Olson	YES	YES	Spatial Analysis Needed
N-143	Place-Based		Designate no anchor zones and increase number of mooring buoys	Designate no anchor zones and increase number of mooring buoys on SEFCRI coral reef tract to minimize boating impacts to our coral reefs.	Dana Wusinich-Mendez; April Price; Butch Olson; Dave Anderson	YES		Spatial Analysis Needed
N-144	Place-Based		Implement MPA planning process	Implement MPA planning process to set aside areas to enhance population of most prolific reproduction of reef fish and coral.	Dana Wusinich-Mendez	YES		Spatial Analysis Needed
N-145	Place-Based		Create/rotate limited use areas	Create/rotate limited use areas to allow reef recovery.	Nikole Ordway	YES	YES	Spatial Analysis Needed

N-146	Place-Based	2	Establish and implement a zoning framework	Establish and implement a zoning framework for the SEFCRI Region that includes no-take reserves, no anchor areas, restoration areas, and seasonal protection for spawning aggregations to enable both sustainable use and protection of our Florida reefs.	Dana Wusinich-Mendez; April Price; Andrea Graves; Butch Olson; April Price; Kathy Fitzpatrick	YES		
N-147	Place-Based	6	Develop and establish no-take zones or areas of restricted activity	Develop and establish no-take zones or areas of restricted activity (include reefs and everglades) to protect and reduce pressure on reefs, stop use of tackle and traps that damage reefs, and avoid user conflicts to reduce pressure on juvenile and forage fish.	Dana Wusinich-Mendez; Butch Olson; April Price; Kathy Fitzpatrick; Lou Romano;	YES		Spatial Analysis Needed
N-148	Place-Based		Nominate southeast Florida reef tract for National Marine Sanctuary	Nominate southeast Florida reef tract for National Marine Sanctuary (www.nominate.noaa.gov) to provide broader federal protection for the southeast Florida reef tract.	Vincent Encomio; Dana Wusinich-Mendez; Butch Olson; Kathy Fitzpatrick; April Price;	YES	YES	Spatial Analysis Needed
N-149	Place-Based		Procure funding sources to sustain a managed marine protected area	Procure funding sources to sustain the development, staffing, and maintenance of a managed marine protected area to benefit the people who use the reefs.	Mike Brescher	YES	YES	

N-39	Place-Based		Develop restricted airspace	Develop restricted airspace (altitude 500 feet) to give control of the space above the reefs to prevent air craft of flying too low over the water leaving that air space for enforcement and rescue.	Mike Brescher	YES	YES	
N-100	Place-Based	2	Create MPAs within FRT based on current science and data	Create MPAs within FRT based on current science and data to develop site specific goals for a management plan to protect sensitive species and habitat.	Kathy Fitzpatrick	YES	YES	
N-137	Place-Based	1	Designate the entire SEFCRI region as a particularly sensitive sea areas (PSSA)	Designate the entire SEFCRI region as a particularly sensitive sea areas (PSSA) to reduce direct impacts from large vessel grounding sand cable drag events on the reef.	Dana Wusinich-Mendez; Mike Brescher	YES	YES	Spatial Analysis Needed