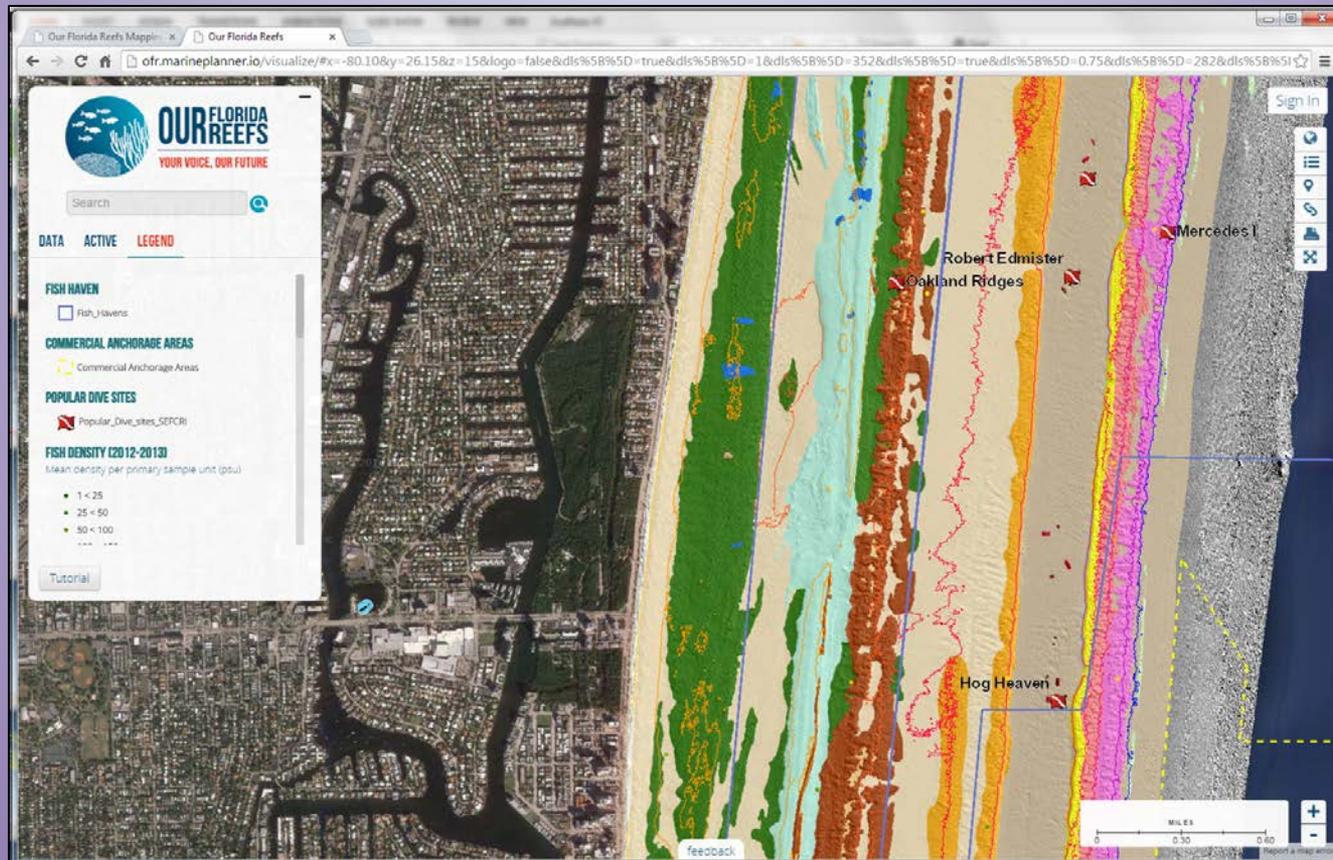


South CWG Management Recommendation Spatial Identification Review



Sort	Code	Focus Area	Combined	Short Title	Mgmt. Action DRAFTS	Spatial?	Pran Spatial Review	Amanda Spatial Eval	Final	
69	S-85	Fishing, Diving, Boating and Other Uses		Allocate reef fish quotas	Allocate reef fish quotas for conservation and non-extractive tourism, recreation, diving, snorkeling, education, and science to improve resource conservation, reduce overfishing and fishing damage to reefs, improve the diversity and quality of recreation, enhance reef fish populations, accelerate coral reef recovery, and improve conservation ethics and resource balance.	Spatial Analysis Needed	No	No	No	
74	S-90	Fishing, Diving, Boating and Other Uses		Establish rotational use for popular dive sites	Establish rotational use for popular local dive sites to allow for coral reef and biomass recovery	Spatial Analysis Needed	No	Yes	Maybe	It depends
83	S-100	and Coastal Construction Impacts	2	Redefine the Port of Miami anchorage zone	Redefine the Port of Miami anchorage zone to remove four areas with reported coral from the existing anchor zone, reduce anchor damage currently being caused by ships anchoring zone which includes some coral reef.	Spatial Analysis Needed	Maybe	Yes	Yes	
104	S-121	and Coastal Construction Impacts		Review shipping and yachting dumping rules	Review shipping and yachting industry sewage dumping rules to make sure discharge areas are far from SE FL coral reefs to reduce nitrogen threats to reefs.	Spatial Analysis Needed	No	No	No	
106	S-16	Place-Based		Create MPAs in SEFCRI that amount to ~20% of area	Create MPAs within SEFCRI area that amount to ~20% of area and are well defined to protect reefs and minimize user conflict.	Spatial Analysis Needed	Yes	Yes	Yes	
107	S-18	Place-Based		Design and designate county marine parks	Design and designate county marine parks to enhance and diversify public activities and enjoyment, separate conflicting and incompatible activities, improve public safety, accelerate coral reef recovery, and enhance coral reef resource conservation.	Spatial Analysis Needed	Yes	Yes	Yes	
108	S-19	Place-Based		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.	Spatial Analysis Needed	Yes	Yes	Yes	
109	S-20	Place-Based		Define and prioritize reefs and habitat areas for extra protection	Define and prioritize reefs and habitat areas for extra protection to reduce fishing stress, accelerate reef recovery, protect reef fish, benefit public education, and benefit recreational diving and snorkeling	Spatial Analysis Needed	Yes	Yes	Yes	
110	S-21	Place-Based		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.	Spatial Analysis Needed	No	No	No	unless cre
111	S-22	Place-Based		Develop marine protected zones in local high density coral areas	Develop marine protected zones in local high density coral areas to reduce anthropogenic impacts and improve coral protection for local healthy sites.	Spatial Analysis Needed	Yes	Yes	Yes	
112	S-38	Place-Based		Establish replicated marine reserves	Establish replicated marine reserves to determine impacts of water quality versus fishing on resources to increase knowledge of threats, public education, protection of fish populations, and public awareness.	Spatial Analysis Needed	Yes	Yes	Yes	
114	S-69	Place-Based		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.	Spatial Analysis Needed	Maybe	Maybe	maybe	This is ver
115	S-70	Place-Based		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.	Spatial Analysis Needed	Yes	Yes	Yes	
116	S-77	Place-Based		Modify shape of previously established no-take areas	Modify 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	Spatial Analysis Needed	No	No	No	There are

Red Not Spatial
Orange Maybe spatial, clarification is needed
Green Spatial

Recommendations Identified by all as Needing Spatial Support

Code	Focus Area	Mgmt. Action DRAFTS	NOTES
S-16	Place-Based	Create MPAs within SEFCRI area that amount to ~20% of area and are well defined to protect reefs and minimize user conflict.	The tool could help with this recommendation.
S-18	Place-Based	Design and designate county marine parks to enhance and diversify public activities and enjoyment, separate conflicting and incompatible activities, improve public safety, accelerate coral reef recovery, and enhance coral reef resource conservation.	The tool could help with this recommendation.
S-19	Place-Based	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.	The tool could help with this recommendation.
S-20	Place-Based	Define and prioritize reefs and habitat areas for extra protection to reduce fishing stress, accelerate reef recovery, protect reef fish, benefit public education, and benefit recreational diving and snorkeling	The tool could help with this recommendation.
S-22	Place-Based	Develop marine protected zones in local high density coral areas to reduce anthropogenic impacts and improve coral protection for local healthy sites.	The tool could help with this recommendation.

Recommendations Identified by all as Needing Spatial Support

Code	Focus Area	Mgmt. Action DRAFTS	NOTES
S-38	Place-Based	Establish replicated marine reserves to determine impacts of water quality versus fishing on resources to increase knowledge of threats, public education, protection of fish populations, and public awareness.	The tool could help with this recommendation, but unsure how water quality data would fit.
S-70	Place-Based	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.	The tool could help with this recommendation, but may not be needed. It is pretty specific already.
S-82	Place-Based	Create zones to exclude fishing traps and commercial gear in special high density coral areas to reduce storm and current movement trap/gear damage to the reef ecosystem.	The tool could help with this recommendation.
S-84	Place-Based	Create no-take zones for sharks and barracuda in aggregate areas to protect overfished predators in areas where most vulnerable.	The tool could help with this recommendation, but may not be needed.
S-123	Place-Based	Create, establish, and monitor no take areas to comprise at least 20-30% of SEFCRI Region and incorporate evaluation.	The tool could help with this recommendation.
S-4	Place-Based	Create "research-only" ocean areas to allow for scientific research to be conducted	The tool could help with this recommendation.

Recommendations **NOT IDENTIFIED** By CWG But **MAY BE** Good Candidates

Code	Focus Area	Mgmt. Action DRAFTS	Notes
S-13	Coral Reef Habitat	Develop plans to restore damaged reefs to create healthy ecosystems where none exist now	The tool could help with this recommendation.
S-68	Fishing, Diving, Boating & other	Maximize coral reef resilience to effects of climate change by reducing local pressures of overfishing and habitat degradation to reduce coral stress so coral can better cope with natural disturbances.	If this requires zonation the tool could help.
S-111	MICCI	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.	The tool could help with this recommendation, but may not be needed.

Recommendations Identified By South CWG That Need Clarification

Code	Focus Area	Mgmt. Action DRAFTS	Notes
S-8	Coral Reef Habitat	Develop strategies for coral population enhancement through restocking and larval recruitment to establish recovery zones and recruitment for corals	The tool wouldn't help with the strategies but could help if siting recovery areas. This would be akin to S-13
S-23	Coral Reef Habitat	Enhance existing estuaries (and add more estuaries) and restore potential estuarine areas to support coral reef ecosystem function.	Depends on specific actions and available data
S-90	Fishing, Diving, Boating & Other	Establish rotational use for popular local dive sites to allow for coral reef and biomass recovery	It depends on what criteria would be used to determine when sites are rotated.
S-69	Place-Based	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.	This is very specific already. Not sure the tool will be helpful.
S-92	Place-Based	Establish a no anchor zone on reefs during beach festivals, as air sea show, music events, etc. to protect reefs from anchor damage by the multitude of boats viewing or listening to the events.	These designs are specific to individual events and would be very difficult to implement in the tool.

Recommendations Identified By South CWG But **May NOT Be** Good Candidates

Code	Focus Area	Mgmt. Action DRAFTS	Notes
S-2	Coral Reef Habitat	Create and fund one SEFCRI-wide mooring buoy program as a more coordinated and cost effective way of protecting reefs from anchor damage	The tool could be used to site mooring buoy placement
S-6	Coral Reef Habitat	Develop guidelines and policies for what qualifies for an artificial reef (i.e. materials) and policy for where artificial reefs should be installed to protect the existing southeast Florida coral reefs	The tool might be able to help with the “where” but unsure
S-7	Coral Reef Habitat	Construct more scientific-based artificial reefs to rebuild coral reef habitat	Doesn't appear spatial
S-9	Coral Reef Habitat	Protect near shore juvenile fish habitat from renourishment projects to enhance fishery and stop reduction of habitat	Doesn't appear spatial
S-28	LBSP Water Quality	Support restoration of historical/natural "Everglades" water flow to minimize pulses of freshwater and protect marine ecosystems from poor water quality (nutrients).	Outside the scope of Marine Planner

Recommendations Identified By South CWG But **May NOT Be** Good Candidates

Code	Focus Area	Mgmt. Action DRAFTS	Notes
S-33	LBSP	<p>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.</p>	<p>Outside the scope of Marine Planner</p>
S-41	LBSP	<p>Develop TMDLs and mass balance for water going to tide to make informed management decisions.</p>	<p>Doesn't appear spatial</p>
S-72	Fishing, Diving, Boating	<p>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.</p>	<p>There are no current no-take areas. Doesn't appear spatial</p>
S-78	Fishing, Diving, Boating	<p>Raise cost of fishing and boating violations to deter actions that adversely affect coral reefs.</p>	<p>Doesn't appear spatial</p>
S-85	Fishing, Diving, Boating	<p>Allocate reef fish quotas for conservation and non-extractive tourism, recreation, diving, snorkeling, education, and science to improve resource conservation, reduce overfishing and fishing damage to reefs, improve the diversity and quality of recreation, enhance reef fish populations, accelerate coral reef recovery, and improve conservation ethics and resource balance.</p>	<p>Doesn't appear spatial</p>

Recommendations Identified By South CWG But **May NOT Be** Good Candidates

Code	Focus Area	Mgmt. Action DRAFTS	Notes
S-121	MICCI	Review shipping and yachting industry sewage dumping rules to make sure discharge areas are far from SE FL coral reefs to reduce nitrogen threats to reefs.	Doesn't appear spatial
S-21	Place-Based	Designate the southeast Florida coral reef tract as a marine protected area to reduce threats to the reefs and protect them for future generations.	Too general unless creating zones within MPA for different purposes.
S-71	Place-Based	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.	There are no current no-take areas