

Monitoring Inventory

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Breakout Session 1

Southern Coastal Systems

Instructions: Please use this Table of Contents as a guide to navigate the Monitoring Inventories. The Table of Contents provide a short descriptive title of the monitoring plans, the indicator in focus, the implementing agency, the degree which is linked to CERP and a reference number where additional source of information can be found within the Monitoring Inventory.

Link to CERP: Indicates the degree to which the monitoring program links with CERP. Criteria are as follows:

High: monitoring does occur within CERP footprint and monitoring is focused on a CERP indicator

Moderate: monitoring occurs within CERP footprint or monitoring is focused on a CERP indicator.

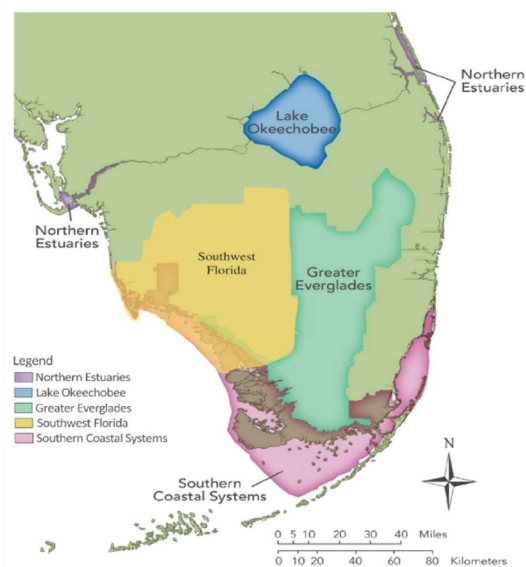
Low: monitoring does not occur within the CERP footprint and monitoring is not focused on a CERP indicator.

Monitoring Title: short description of the monitoring plan.

Indicator: organism or system components being monitored.

Agency: Agency/Tribe/Institution implementing or administering the monitoring.

Reference #: number that corresponds to the Monitoring Inventory where additional information can be found.



Southern Coastal Systems Module

Link to CERP	Monitoring Title	Indicator	Agency	REF #
High	Fish Species abundance in coastal Everglades	Fish	FWC	77-79
High	SAV Percent cover in FL Bay	SAV	FWC	162-163
High	SAV Density in FL Bay	SAV	USEPA	187-188
High	Crocodile Nesting Location in ENP.	Crocodile	FDEP	213
High	Crocodile Nesting Success in Turkey Point.	Crocodiles	USFWS/FPL	232
High	Fish Relationship with Seagrasses in Biscayne Bay	Fish	NOAA/NMFS	251
High	Smalltooth sawfish abundance in south FL	Fish - Smalltooth Sawfish	NOAA	258
High	Everglades restoration effects on near shore environments	eDNA Biodiversity	NOAA	263
High	Peryphyton density in FL keys and southwest FL	Phytoplankton	NOAA	271
High	Phytoplankton density in Biscayne Bay	Phytoplankton	NOAA	272
High	Salinity and other water properties in Biscayne Bay	Salinity	NOAA/NMFS	273
High	Water depth and water quality in Biscayne Bay	Water Depth	NOAA/NMFS	277
High	Flow monitoring in northeast coast of FL Bay	Flow	USGS	302
High	Flow monitoring in southwest coast of ENP	Flow	USGS	303
High	Salinity in northeast FL Bay	Salinity	USGS	306
High	Salinity in southwest ENP	Salinity	USGS	307
High	Groundwater temperature and salinity in coastal ENP and FL Bay	Hydrology	FIU	339
High	Biomass productivity in mangrove, seagrass, and sawgrass in coastal ENP and FL Bay	Sawgrass	FIU	353
High	Soil elevation in coastal ENP and FL Bay	Soil elevation	FIU	359
High	Salinity and other surface water chemistry in coastal ENP and FL Bay	Surface water chemistry	FIU	361
High	Periphyton accumulation rates in coastal ENP and FL Bay	Periphyton	FIU	363
High	Water depth in FL Bay	Water Depth	FIU	384
High	Salinity and other surface water chemistry	Salinity	FDEP/DEAR	463
High	Fish and epifauna community diversity in Biscayne Bay	Macroinvertebrates	USACE/NOAA	540
High	Ecological Parameters of Forested Wetlands	Salinity	USACE	545
High	Salinity effects on SAV and associated faunal communities in Biscayne Bay	Salinity	USACE/NOAA	546
High	Hydrodynamics and salinity in TTI	Salinity	USACE/USGS	547
High	Coastal Gradients in southern coastal estuaries	Salinity	USACE/USGS	548
High	Temperature and other Ecological Parameters in mangrove areas of the southern coast	Salinity	USACE	549
High	Temperature and other Coastal Gradients	Salinity	USACE/USGS	550
High	Temperature effects on Juvenile Sportfish	Salinity	USACE/NOAA	553
High	Alligator Nesting Success in ENP.	Alligators	NPS-SFNRC	586
High	Crocodile Nesting Success and Juvenile Survival in the Southern Coast.	Crocodiles	NPS-SFNRC	587

High	Fish relative density and community composition in Biscayne Bay	Fish	NPS SFCN	598-605
High	Ecological Parameters in coastal mangrove wetlands of northern FL Bay	Fish - Smalltooth Sawfish	NPS-SFNRC	618
High	Marine fish and macroinvertebrate community composition in coastal ENP and FL Bay	Fish	NPS-SFNRC	620
High	SAV community composition	SAV - Queen conch	NPS SFCN	637
High	Vegetation in the ecotone boundary	Vegetation	NPS SFCN	639
High	Hardwood hammocks, cypress, mangroves and pineland forestry in NPS lands	Vegetation	NPS SFCN	641
High	Precipitation and other water quality in Biscayne Bay	Salinity	FDEP ORCP	661
High	Evaluate restoration effects on wetland salinity, nutrient loads to Florida Bay	Nutrients	SFWMD	721
High	Precipitation, water depth and other wetland hydrology in C-111	Precipitation	SFWMD	723
High	Hydrology and SLR effects on wetland soils and groundwater salinity in C-111	Porewater salinity	SFWMD	724
High	Hydrology changes and SLR groundwater interactions	Groundwater	SFWMD	725
High	Fish isotope signatures and habitat use in FL Bay	Fish	SFWMD	726
High	Fish movements and trophic dynamics in coastal lakes	Fish - Smalltooth Sawfish	SFWMD	727
High	Water quality and salinity in FL Bay	Salinity	SFWMD	728
High	Alligator Body Condition and Relative Density in southern ENP and FL Bay.	Alligators	FIU	314, 315
High	Fish body condition, distribution and density in SRS, TS and FL Bay	Fish	FIU	318-319
High	Periphyton Biomass in coast ENP	Periphyton	FIU	365-369
High	Ecological Parameters in Forested Wetlands of southern Biscayne Bay and FL Bay	Fish	USACE	526-529
High	Juvenile Sportfish Density and Distribution in Florida Bay coastal environments	Fish	USACE/NOAA	530-532
High	Marsh-Mangrove Interface Habitats for Wetland Fishes in southwest ENP and SRS estuary	Fish	USACE	533-539
High	Ecological Parameters of Forested Wetlands	Salinity	USACE	541-542
High	Hydrodynamics and salinity in TTI	Salinity	USACE	543-544
High	Temperature, Hydrodynamics and Salinity in TTI	Salinity	USACE/USGS	551-552
High	Invasive Species Distribution and Response to Treatment in Biscayne Bay NP.	Exotic Flora	NPS	595, 596
High	Reef fish relative density and community composition in Biscayne Bay	Fish	NPS	600-606
High	Soil accretion and surface elevation in relation to SLR in coastal ENP	Soil Surface Elevation	NPS SFCN	624-625
High	Phytoplankton and water quality FL Bay	Phytoplankton	NPS	628-629
High	Salinity and other water quality in Biscayne Bay	Salinity	NPS	630-631
High	Fish Community Abundance in the Southern Coastal Systems.	Fish	FWC	77, 79
Moderate	Species Richness of Non-Native Wildlife.	Exotic Fauna	FWC	48
Moderate	Crocodile nesting success in Key Largo	Crocodiles	USFWS	231
Moderate	Tracking Virginia Opossums to Detect Burmese Python in Southern ENP	Burmese Python	USFWS	234
Moderate	Pink shrimp and other seagrass faunal community	Macroinvertebrates	NOAA/NMFS	260
Moderate	Dissolved Oxygen and water quality in Biscayne Bay	Water Quality	NOAA	278
Moderate	Dissolved Oxygen and water quality in FL keys and southwest FL	Water Quality	NOAA	281

Moderate	Nutrients and water quality in Biscayne Bay	Water Quality	NOAA	282
Moderate	Nutrients and water quality in Biscayne Bay	Water Quality	NOAA	285
Moderate	Water quality in southern coastal systems	Water Quality	NOAA/NMFS	286
Moderate	Phosphorus and water quality in southern FL and keys	Water Quality	NOAA	289
Moderate	Temperature and water quality in FL keys and southwest FL	Water Quality	NOAA	292
Moderate	Temperature and water depth in FL keys	Water Quality	NOAA	293
Moderate	Temperature and water quality in FL keys coral reefs	Water Quality	NOAA	294
Moderate	Litter decomposition in coastal ENP and FL Bay	Litter	FIU	341
Moderate	Bacterial abundance in coastal ENP	Microbes	FIU	343
Moderate	Microbe community composition in coastal ENP and FL Bay	Microbes	FIU	345
Moderate	Ecosystem Metabolism in coastal ENP and FL Bay	Net ecosystem metabolism	FIU	347
Moderate	Organic matter in coastal ENP and FL Bay	Organic matter	FIU	349
Moderate	Plankton pigment in coastal ENP and FL Bay	Plankton pigment	FIU	351
Moderate	Marine Macroalgae biomass and abundance in coastal ENP and FL Bay	Vegetation	FIU	373
Moderate	Organic matter and water quality in coastal ENP and FL Bay	Water Quality	FIU	390
Moderate	Lake Condition and Health of Impaired Waterbodies.	Exotic Flora	FDEP/DEAR	396
Moderate	Water depth and other surface water chemistry	Water Depth	FDEP/DEAR	405
Moderate	Dissolved oxygen and other surface water chemistry	Dissolved Oxygen	FDEP/DEAR	410
Moderate	Nutrients and other surface water chemistry	Nutrients	FDEP/DEAR	417
Moderate	Percent cover, Lake Condition Index and other surface water chemistry	Percent Cover	FDEP/DEAR	424
Moderate	Phosphorus and other surface water chemistry	Phosphorus	FDEP/DEAR	430
Moderate	Species abundance, Lake Condition Index and other surface water chemistry	Species Abundance	FDEP/DEAR	437
Moderate	Species Diversity, Lake Condition Index and other surface water chemistry	Species Diversity	FDEP/DEAR	444
Moderate	Phytoplankton and other surface water chemistry	Phytoplankton	FDEP/DEAR	457
Moderate	Surface water chemistry and Lake Condition Index	SAV	FDEP/DEAR	469
Moderate	Surface water chemistry and Lake condition index	Vegetation	FDEP/DEAR	477
Moderate	Water Depth and other surface water chemistry	Water Depth	FDEP/DEAR	491
Moderate	Occupancy of Invasive/Exotic Flora.	Exotic Fauna	NPS SFCN	589
Moderate	Tracking Fire Occurrence and Fire Parameters in ENP	Fire	NPS-Fire	615
Moderate	Coral reef temperature and water quality	Water Quality	NPS SFCN	651
Moderate	Salinity, nutrients, and turbidity	Salinity	FDEP ORCP	662
Moderate	Seagrass density and abundance	Seagrass	FDEP ORCP	665
Moderate	Colony size	Wading Birds	FDEP ORCP	666
Moderate	Water Depth in Biscayne Bay	Water Depth	FDEP ORCP	667
Moderate	Dissolved Oxygen	Water Quality	FDEP ORCP	668
Moderate	Phosphorus and water quality in Biscayne Bay	Water Quality	FDEP ORCP	675
Moderate	SAV species abundance with the Fish Habitat Assessment Program (FHAP)	SAV	SFWMD	720
Moderate	Restoration effects on marsh health and species composition in coastal ENP	Vegetation	SFWMD	722
Moderate	SAV Percent cover in FL Bay	SAV	FWC	162-163

Moderate	SAV stability and function in Biscayne Bay	SAV	USEPA	187-188
Moderate	Mangrove fish species abundance and density	Fish	NOAA/NMFS	254-255
Moderate	SAV Percent cover	SAV	NOAA/NMFS	274-276
Moderate	Aquatic consumers species composition in coastal ENP and FL Bay	Aquatic Consumers	FIU	322-327
Moderate	Metereology in coastal ENP and FL Bay	Climate Variability & Change	FIU	332-335
Moderate	Soil and porewater chemistry in coastal ENP and FL Bay	Soil	FIU	355-357
Moderate	Seagrass and nutrients in coastal ENP	Vegetation	FIU	371-372
Moderate	Mangrove monitoring in coastal ENP	Vegetation	FIU	375-377
Moderate	Sawgrass productivity in coastal ENP	Vegetation	FIU	379-382
Moderate	Nutrients and water quality in coastal ENP	Water Quality	FIU	387-388
Moderate	Statewide Water Depth network	Water Depth	FDEP/DEAR	483-485
Moderate	SAV spatial extent in Biscayne Bay	SAV	USACE/NOAA	554-565
Moderate	SAV Health and Distribution in Biscayne Bay	SAV	NPS	634-636
Moderate	Wading bird nesting in Biscayne Bay	Wading Birds	NPS SFCN	644-647
Moderate	Wading bird nesting in FL Bay Islands	Wading Birds	NPS-SFNRC	646-647
Moderate	SAV Percent Cover in Biscayne Bay	SAV	FDEP	663-664
Moderate	Nutrients and water quality	Water Quality	FDEP	669-670
Moderate	Macroinvertebrates colony size and density	Macroinvertebrates	FWC	81
Low	Coral reef percent cover in Biscayne Bay	Macroinvertebrates	FWC	82
Low	White-crowned pigeon nesting surveys in FL Keys	White-crowned pigeon	FWC	150
Low	Coral Reef Function in the Florida Keys	Fish	NOAA	252
Low	Reef fish species and abundance in FL reef track and FL keys	Fish	NOAA	253
Low	Macroinvertebrates species abundance in coral reefs	Macroinvertebrates	NOAA	259
Low	Sea turtle and terrapin nesting in ENP	Sea turtles and terrapins	USGS	310
Low	Bull Shark body condition, distribution, and density in coastal ENP and FL Bay	Bull sharks	FIU	329
Low	Temperature and other surface water chemistry	Temperature	FDEP/DEAR	450
Low	Dissolved oxygen and water quality	Water Quality	FDEP/DEAR	495
Low	Lionfish Distribution in Biscayne Bay.	Exotic Fauna	NPS	591
Low	Coral reef percent cover in Biscayne Bay	Coral	NPS SFCN	607
Low	Lobster Relative Density and community composition in Biscayne Bay	Lobster	NPS	608
Low	Water quality in the FL keys	Water Quality	FDEP ORCP	671
Low	Secchi Depth and water quality in reef sites	Water Quality	FDEP ORCP	672
Low	Total Suspended solids and water quality in reef sites	Water Quality	FDEP ORCP	673
Low	Turbidity and water quality in reef sites	Water Quality	FDEP ORCP	674
Low	Sea turtle Nesting success	Other - Sea turtles	USFWS/FWC	238-238
Low	Coral reef percent cover in Florida reef track and FL keys	Corals	NOAA	264-266
Low	Nutrients and water quality	Water Quality	FDEP/DEAR	499-519
Low	Temperature and water quality	Water Quality	FDEP/DEAR	523-525
Low	Caribbean spiny lobster conditions and trends in Biscayne Bay	Lobster	NPS SFCN	610-611
Low	Coral Reef Colony Size	Coral Demographics	FDEP ORCP	652-660