

Monitoring Inventory

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Breakout Session 2 Greater Everglades

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.

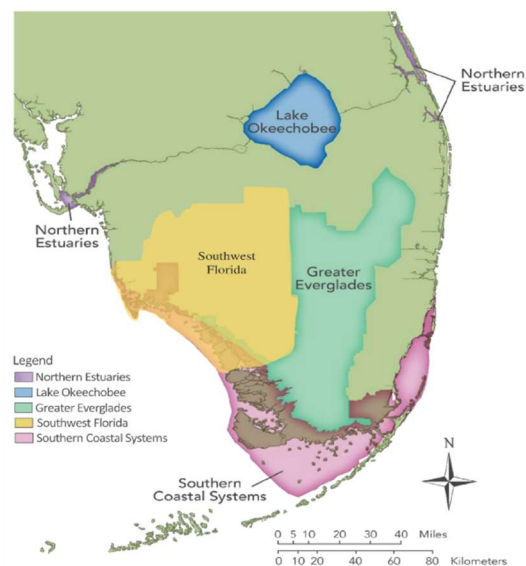
Low: monitoring does not occur within the CERP footprint and monitoring is not focused on a CERP indicator.

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.



Greater Everglades Module

Link to CERP	Monitoring Title	Indicator	Agency	REF #
High	Alligators body condition in ENP and FL Bay	Alligators	FIU	312-313
High	Alligator body condition in WCA 3	Alligators	USACE	566
High	Alligator reproductive effort and nesting success	Alligators	NPS-SFNRC	585
High	Alligator population monitoring	Alligators	FWC	7-44
High	Amphibians systemwide	Amphibians	FDEP	214
High	Apple snail population response to changes in hydrology in WCAs	Apple Snails	USACE	1
High	Aquatic Consumers in ENP and FL Bay	Aquatic Consumers	FIU	320-326
High	Bachman's sparrow surveys in Hungryland WEA	Bachman's sparrow	FWC	84
High	Bald Eagle nesting success	Bald Eagle	FWC	85-89
High	Bat species richness via acoustic monitoring	Bats	FWC	90-95
High	Breeding bird surveys	Birds	FWC	102-104
High	Bird Species richness	Birds	FWC	107-112
High	Black Rail surveys	Black Rail	FWC	113-115
High	Cape Sable Seaside Sparrow	Cape Sable Seaside Sparrow	NPS-SFNRC	612
High	Cape Sable Seaside Sparrow	Cape Sable Seaside Sparrow	NPS-SFNRC	613
High	Cape Sable Seaside Sparrow	Cape Sable Seaside Sparrow	USACE	2
High	Crested Caracara nesting success	Crested Caracara	FWC	116-120
High	Crocodile ecology in ENP	Crocodiles	USGS	297
High	Snail Kite nesting success	Everglade Snail kite	FWC	121
High	Snail Kite nesting success in WCAs and ENP	Everglade Snail Kite	USACE	3
High	Snail Kite Movement patterns and survival	Everglade Snail Kite	USACE	4
High	Frog and toad monitoring	Frogs and toads	FWC	123
High	Freshwater fish communities in L-35	Fish	FWC	70
High	Freshwater fish communities in L-67	Fish	FWC	72
High	Fish community and density impacts from hydrologic restoration	Fish	FWC	78-80
High	Fish community and density impacts from hydrologic restoration	Fish	FWC, USACE, USGS	57
High	Mercury in mosquitofish in freshwater Everglades	Fish	USEPA	181-182
High	Fish body condition and distribution in ENP and FL Bay	Fish	FIU	316-317
High	Freshwater fish monitoring in WCA3 and ENP	Fish	NPS-SFNRC	616-621
High	Aquatic fauna and macroinvertebrate densities	Fish	USACE	567
High	Aquatic fauna, macroinvertebrates, and periphyton abundance	Fish	USACE	568
High	Florida bristle fern abundance in Miami-Dade County	Florida bristle fern	USFWS	235
High	Flows in SRS and TS	Flow	USGS	301
High	Gopher tortoise monitoring	Gopher tortoise	FWC	124
High	Natural community mapping	Habitat	FWC	125-127
High	Hydrologic connectivity of groundwater in ENP and FL Bay	Hydrologic connectivity	FIU	336-338

High	Black Rail surveys	Marsh birds	FWC	128-129
High	Native Vegetation Mosaic systemwide	Native Vegetation Mosaic	FDEP	221
High	Mammal species abundance in LOX NWR	Mammals	USGS	309
High	Phytoplankton and surface water chemistry	Phytoplankton	FDEP/DEAR	453
High	Periphyton systemwide	Periphyton	FDEP	222
High	Periphyton accumulation rates in ENP and FL Bay	Periphyton	FIU	362
High	Periphyton biomass in ENP and FL Bay	Periphyton	FIU	364
High	Periphyton composition and productivity in ENP and FL Bay	Periphyton	FIU	366
High	Periphyton ecological changes	Periphyton	NPS-SFNRC	626
High	Periphyton in upper TS	Periphyton	SFWMD	697
High	Periphyton community structure and total phosphorus	Periphyton	NPS SFCN	627
High	Periphyton productivity in ENP and FL Bay	Periphyton	FIU	368
High	Rare Plants systemwide	Rare Plants	FDEP	225
High	Rare plants species richness	Rare Plants	FWC	133-135
High	Herpetofauna species richness	Reptiles and Amphibians	FWC	141-144
High	Soil and Biogeochemistry systemwide	Soil and Biogeochemistry	FDEP	229
High	Soil elevation in ENP and FL Bay	Soil elevation	FIU	358
High	Salinity and surface water chemistry	Salinity	FDEP/DEAR	459
High	SAV and surface water chemistry	SAV	FDEP/DEAR	465
High	SAV collected in lakes	SAV	FDEP/DEAR	470
High	SAV percent cover and species abundance	SAV	SFWMD	718
High	Mangrove and seagrass productivity in ENP and FL Bay	Sawgrass, mangrove, seagrass	FIU	352
High	Small Mammals systemwide	Small Mammals	FDEP	228
High	Soil Surface Elevation relative to sea level rise	Soil Surface Elevation	NPS SFCN	622-623
High	Vegetation and soil characteristics and surface-energy cycling	Surface-energy cycling	USGS	304
High	Surface Elevation Change in mangrove wetlands	Surface Elevation Change	USFWS	243
High	Swallow-Tailed Kite nesting activity	Swallow-tailed Kite	FWC	146-148
High	Tree island vegetation and wildlife use	Tree islands	FWC	149
High	Tree Island vegetation related to hydrologic conditions	Tree Islands	USACE	569
High	Track growth rates and control for lygodium on Tree Islands	Tree Islands	SFWMD	686
High	Marl Prairie and Ridge and Slough gradients	Vegetation	USACE	570
High	Vegetation species abundance and community category	Vegetation	USACE	571
High	Vegetation response to changes in hydrology in CSSS	Vegetation	USACE	6
High	Sawgrass and other vegetation in ENP and FL Bay	Vegetation	FIU	370
High	Mangrove metrics in ENP and FL Bay	Vegetation	FIU	374
High	Mangrove litter fall in ENP and FL Bay	Vegetation	FIU	376
High	Sawgrass and other vegetation in ENP and FL Bay	Vegetation	FIU	378
High	Vegetation and surface water chemistry	Vegetation	FDEP/DEAR	473
High	Vegetation collected in lakes	Vegetation	FDEP/DEAR	479
High	Mechanical treatment for sawgrass marsh restoration	Vegetation	FWC	164
High	Tree island restoration and planting success	Vegetation	FWC	168-169
High	Mangrove-Marsh ecotone vegetation	Vegetation	NPS SFCN	638

High	Change in forest vegetation community structure and composition	Vegetation	NPS SFCN	640
High	Vegetation change in NE SRS	Vegetation	NPS-SFNRC	642
High	Marl Prairies Vegetation Monitoring in Cape Sable Seaside Sparrows habitat	Vegetation	NPS-SFNRC	643
High	Vegetation and water depth of AMI experiments	Vegetation	SFWMD	731
High	Vegetation mapping of the WCAs	Vegetation	SFWMD	732
High	Wading bird nesting success and colony monitoring	Wading Birds	FWC	170-178
High	Wading Bird nesting location, size and timing in WCAs	Wading Birds	USACE	573
High	Mercury in Wading bird feathers	Wading Birds	USACE	574
High	Wading Bird colony nesting locations and numbers	Wading Birds	NPS-SFNRC	645
High	Wading Bird nests, timing and location of nesting	Wading Birds	SFWMD	708
High	Wading bird numbers and species composition	Wading Birds	SFWMD	729
High	Other - Wading birds, waterfowl	Wading birds	SFWMD	730
High	Water Depth and other hydrological monitoring	Water Depth	NPS-SFNRC	648
High	Water Depth in ENP and FL Bay	Water Depth	FIU	383
High	Water Depth in lakes, rivers, streams and canals	Water Depth	FDEP/DEAR	481
High	Water Depth and surface water chemistry	Water Depth	FDEP/DEAR	487
High	Water velocity and nutrient loads of slough landscape	Water velocity	SFWMD	719
High	Wood duck nesting success	Wood duck	FWC	158
High	Wood Stork Reproduction in WCA 3	Wood Stork	USACE	5
Moderate	Climate Variability & Change in ENP and FL Bay	Climate Variability & Change	FIU	330-334
Moderate	Bull shark body condition and distribution in coastal ENP and FL Bay	Bull sharks	FIU	328
Moderate	Water Depth and surface water chemistry	Depth	FDEP/DEAR	401
Moderate	Dissolved Oxygen and surface water chemistry	Dissolved Oxygen	FDEP/DEAR	407
Moderate	Dissolved Oxygen and surface water chemistry	Dissolved Oxygen	FDEP/DEAR	411
Moderate	Non-native fauna species richness	Exotic Fauna	FWC	45-50
Moderate	Non-native flora species richness	Exotic Flora	FWC	51-54
Moderate	Argentine black & white tegu trapping and elimination in southeast FL	Exotic Fauna - Argentine black & white tegu	USFWS/FWC/UF	233
Moderate	Black and White Tegu Lizards removal and management in ENP	Exotic Fauna - Black and White Tegu Lizards	NPS/USGS	248
Moderate	Exotic Flora occupancy	Exotic Fauna	NPS SFCN	588
Moderate	Argentine tegu trapping in east ENP	Exotic Fauna	NPS-SFNRC	592
Moderate	Exotic Flora abundance across landscape	Exotic Flora	SFWMD	597
Moderate	Mercury content of python and tegu tissues across GE	Exotic Fauna	USGS	298
Moderate	Burmese Python body condition, distribution, and nest success in ENP	Exotic Fauna - Burmese Python	USGS	299
Moderate	Exotic Flora presence and abundance within GE	Exotic Flora	SFWMD	295
Moderate	Exotic Flora species cover and abundance in GE	Exotic Flora	SFWMD	296
Moderate	Exotic Flora in lakes and canals	Exotic Flora	FDEP/DEAR	392
Moderate	Exotic Flora and Lake Condition Index	Exotic Flora	FDEP/DEAR	394
Moderate	Old World Climbing Fern on Tree Islands Survey	Exotic Flora	SFWMD	676
Moderate	Exotic Flora species abundance	Exotic Flora	SFWMD	575
Moderate	Mapping fire occurrence in ENP	Fire	NPS	576
Moderate	Fire occurrence in ENP	Fire	NPS-Fire	614

Moderate	Mercury in Fish tissues across GE	Fish	USGS	300
Moderate	Invasive Plants systemwide	Invasive Plants	FDEP	220
Moderate	Litter decomposition in ENP and FL Bay	Litter	FIU	340
Moderate	Microbe abundance and productivity in ENP and FL Bay	Microbes	FIU	342
Moderate	Microbe community composition in ENP and FL Bay	Microbes	FIU	344
Moderate	Net ecosystem metabolism in ENP and FL Bay	Net ecosystem metabolism	FIU	346
Moderate	Nutrients and surface water chemistry	Nutrients	FDEP/DEAR	413
Moderate	Organic matter in ENP and FL Bay	Organic matter	FIU	348
Moderate	Peat soil moisture content	Peat/soil	USGS	305
Moderate	Percent Cover and surface water chemistry	Percent Cover	FDEP/DEAR	419
Moderate	Plankton pigment in ENP and FL Bay	Plankton pigment	FIU	350
Moderate	Phosphorus and surface water chemistry	Phosphorus	FDEP/DEAR	426
Moderate	Snail kite population monitoring	Snail kites	SFWMD	717
Moderate	Soil and porewater chemistry in ENP and FL Bay	Soil	FIU	354
Moderate	Soil chemistry and elevation in ENP and FL Bay	Soil	FIU	356
Moderate	Species Abundance and surface water chemistry	Species Abundance	FDEP/DEAR	432
Moderate	Species Diversity and surface water chemistry	Species Diversity	FDEP/DEAR	439
Moderate	Temperature and surface water chemistry	Temperature	FDEP/DEAR	446
Moderate	Surface water chemistry in ENP and FL Bay	Water Quality	FIU	360
Moderate	Water Quality in ENP and FL Bay	Water Quality	FIU	385-389
Moderate	Nutrients and water quality in benthic habitats	Water Quality - ammonium	USEPA	199-212
Moderate	Water Quality in SRS	Water Quality	USGS	308
Moderate	Dissolved Oxygen and water quality	Water Quality	FDEP/DEAR	493
Moderate	Nutrients and water quality	Water Quality	FDEP/DEAR	497
Moderate	Water quality and surface water chemistry	Water Quality	FDEP/DEAR	504
Moderate	Water quality in lakes, rivers, streams, and canals	Water Quality	FDEP/DEAR	512
Moderate	Phosphorus and water quality in rivers, lakes, streams, and canals	Water Quality	FDEP/DEAR	515
Moderate	Statewide temperature and water quality	Water Quality	FDEP/DEAR	521
Moderate	Water Quality and changing flows in northern ENP	Water Quality	NPS-SFNRC	649
Moderate	Water Quality in TS to assess the status in operational influence	Water Quality	NPS-SFNRC	650
Low	Human coastal activity effects on sea turtles	Sea turtles	USFWS/FWC	240-241