



APPENDIX D
BIOLOGICAL RESOURCES





United States Department of the Interior



FISH AND WILDLIFE SERVICE
Florida Ecological Services Field Office
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Vero Beach, FL 32960-3559
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In Reply Refer To:
Project Code: 2024-0031659
Project Name: TPA Airside D

January 02, 2024

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. **Please include your Project Code, listed at the top of this letter, in all subsequent correspondence regarding this project.** Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2) (c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

<https://www.fws.gov/sites/default/files/documents/endangered-species-consultation-handbook.pdf>

Migratory Birds: In addition to responsibilities to protect threatened and endangered species under the Endangered Species Act (ESA), there are additional responsibilities under the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA) to protect native birds from project-related impacts. Any activity, intentional or unintentional, resulting in take of migratory birds, including eagles, is prohibited unless otherwise permitted by the U.S. Fish and Wildlife Service (50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)). For more information regarding these Acts see <https://www.fws.gov/program/migratory-bird-permit/what-we-do>.

The MBTA has no provision for allowing take of migratory birds that may be unintentionally killed or injured by otherwise lawful activities. It is the responsibility of the project proponent to comply with these Acts by identifying potential impacts to migratory birds and eagles within applicable NEPA documents (when there is a federal nexus) or a Bird/Eagle Conservation Plan (when there is no federal nexus). Proponents should implement conservation measures to avoid or minimize the production of project-related stressors or minimize the exposure of birds and their resources to the project-related stressors. For more information on avian stressors and recommended conservation measures see <https://www.fws.gov/library/collections/threats-birds>.

In addition to MBTA and BGEPA, Executive Order 13186: *Responsibilities of Federal Agencies to Protect Migratory Birds*, obligates all Federal agencies that engage in or authorize activities that might affect migratory birds, to minimize those effects and encourage conservation measures that will improve bird populations. Executive Order 13186 provides for the protection of both migratory birds and migratory bird habitat. For information regarding the implementation of Executive Order 13186, please visit <https://www.fws.gov/partner/council-conservation-migratory-birds>.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Code in the header of

this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List
- USFWS National Wildlife Refuges and Fish Hatcheries
- Bald & Golden Eagles
- Migratory Birds
- Wetlands

OFFICIAL SPECIES LIST

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Florida Ecological Services Field Office

1339 20th Street

Vero Beach, FL 32960-3559

(772) 562-3909

PROJECT SUMMARY

Project Code: 2024-0031659

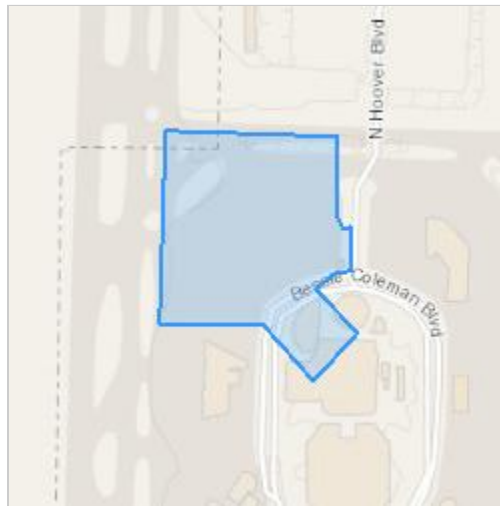
Project Name: TPA Airside D

Project Type: Airport - New Construction

Project Description: The HCAA proposes to construct and operate a new 563,000-square-foot Airside D (AS-D) to meet its projected demand of operations and passengers (Proposed Project). This includes a three-level airside and 16 contact gates with passenger boarding bridges.

Project Location:

The approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/@27.9830665,-82.53713104034594,14z>



Counties: Hillsborough County, Florida

ENDANGERED SPECIES ACT SPECIES

There is a total of 14 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries¹, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

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1. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.
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BIRDS

NAME	STATUS
Crested Caracara (audubon""s) [fl Dps] <i>Caracara plancus audubonii</i> Population: FL DPS No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/8250	Threatened
Eastern Black Rail <i>Laterallus jamaicensis ssp. jamaicensis</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/10477	Threatened
Everglade Snail Kite <i>Rostrhamus sociabilis plumbeus</i> There is final critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/7713	Endangered
Rufa Red Knot <i>Calidris canutus rufa</i> There is proposed critical habitat for this species. Species profile: https://ecos.fws.gov/ecp/species/1864	Threatened
Whooping Crane <i>Grus americana</i> Population: U.S.A. (AL, AR, CO, FL, GA, ID, IL, IN, IA, KY, LA, MI, MN, MS, MO, NC, NM, OH, SC, TN, UT, VA, WI, WV, western half of WY) No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/758	Experimental Population, Non- Essential
Wood Stork <i>Mycteria americana</i> Population: AL, FL, GA, MS, NC, SC No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/8477 General project design guidelines: https://ipac.ecosphere.fws.gov/project/6JHCLSE46VAVVENEP4SWEGQFR4/documents/generated/6954.pdf	Threatened

REPTILES

NAME	STATUS
American Crocodile <i>Crocodylus acutus</i> Population: U.S.A. (FL) There is final critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/6604	Threatened
Eastern Indigo Snake <i>Drymarchon couperi</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/646	Threatened
Hawksbill Sea Turtle <i>Eretmochelys imbricata</i> There is final critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/3656	Endangered
Leatherback Sea Turtle <i>Dermochelys coriacea</i> There is final critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/1493	Endangered
Loggerhead Sea Turtle <i>Caretta caretta</i> Population: Northwest Atlantic Ocean DPS There is final critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/1110	Threatened

INSECTS

NAME	STATUS
Monarch Butterfly <i>Danaus plexippus</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9743	Candidate

FLOWERING PLANTS

NAME	STATUS
Florida Golden Aster <i>Chrysopsis floridana</i> Population: No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/5352	Endangered
Pygmy Fringe-tree <i>Chionanthus pygmaeus</i> Population: No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/1084	Endangered

CRITICAL HABITATS

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

YOU ARE STILL REQUIRED TO DETERMINE IF YOUR PROJECT(S) MAY HAVE EFFECTS ON ALL ABOVE LISTED SPECIES.

USFWS NATIONAL WILDLIFE REFUGE LANDS AND FISH HATCHERIES

Any activity proposed on lands managed by the [National Wildlife Refuge](#) system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

THERE ARE NO REFUGE LANDS OR FISH HATCHERIES WITHIN YOUR PROJECT AREA.

BALD & GOLDEN EAGLES

Bald and golden eagles are protected under the Bald and Golden Eagle Protection Act¹ and the Migratory Bird Treaty Act².

Any person or organization who plans or conducts activities that may result in impacts to bald or golden eagles, or their habitats³, should follow appropriate regulations and consider implementing appropriate conservation measures, as described in the links below. Specifically, please review the ["Supplemental Information on Migratory Birds and Eagles"](#).

1. The [Bald and Golden Eagle Protection Act](#) of 1940.
2. The [Migratory Birds Treaty Act](#) of 1918.
3. 50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)

There are bald and/or golden eagles in your project area.

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, see the PROBABILITY OF PRESENCE SUMMARY below to see when these birds are most likely to be present and breeding in your project area.

NAME	BREEDING SEASON
Bald Eagle <i>Haliaeetus leucocephalus</i> This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. https://ecos.fws.gov/ecp/species/1626	Breeds Sep 1 to Jul 31

PROBABILITY OF PRESENCE SUMMARY

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read ["Supplemental Information on Migratory Birds and Eagles"](#), specifically the FAQ section titled "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

1. The [Migratory Birds Treaty Act](#) of 1918.
2. The [Bald and Golden Eagle Protection Act](#) of 1940.
3. 50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, see the PROBABILITY OF PRESENCE SUMMARY below to see when these birds are most likely to be present and breeding in your project area.

NAME	BREEDING SEASON
American Kestrel <i>Falco sparverius paulus</i> This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA https://ecos.fws.gov/ecp/species/9587	Breeds Apr 1 to Aug 31
American Oystercatcher <i>Haematopus palliatus</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/8935	Breeds Apr 15 to Aug 31
Bald Eagle <i>Haliaeetus leucocephalus</i> This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. https://ecos.fws.gov/ecp/species/1626	Breeds Sep 1 to Jul 31
Black Skimmer <i>Rynchops niger</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/5234	Breeds May 20 to Sep 15
Chimney Swift <i>Chaetura pelagica</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9406	Breeds Mar 15 to Aug 25
Great Blue Heron <i>Ardea herodias occidentalis</i> This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA https://ecos.fws.gov/ecp/species/10590	Breeds Jan 1 to Dec 31
Gull-billed Tern <i>Gelochelidon nilotica</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9501	Breeds May 1 to Jul 31

NAME	BREEDING SEASON
<p>King Rail <i>Rallus elegans</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/8936</p>	Breeds May 1 to Sep 5
<p>Lesser Yellowlegs <i>Tringa flavipes</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9679</p>	Breeds elsewhere
<p>Magnificent Frigatebird <i>Fregata magnificens</i> This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA https://ecos.fws.gov/ecp/species/9588</p>	Breeds Oct 1 to Apr 30
<p>Painted Bunting <i>Passerina ciris</i> This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA https://ecos.fws.gov/ecp/species/9511</p>	Breeds Apr 25 to Aug 15
<p>Prairie Warbler <i>Dendroica discolor</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9513</p>	Breeds May 1 to Jul 31
<p>Reddish Egret <i>Egretta rufescens</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/7617</p>	Breeds Mar 1 to Sep 15
<p>Ruddy Turnstone <i>Arenaria interpres morinella</i> This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA https://ecos.fws.gov/ecp/species/10633</p>	Breeds elsewhere
<p>Short-billed Dowitcher <i>Limnodromus griseus</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9480</p>	Breeds elsewhere
<p>Swallow-tailed Kite <i>Elanoides forficatus</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/8938</p>	Breeds Mar 10 to Jun 30
<p>Willet <i>Tringa semipalmata</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/10669</p>	Breeds Apr 20 to Aug 5

Additional information can be found using the following links:

- Eagle Management <https://www.fws.gov/program/eagle-management>
- Measures for avoiding and minimizing impacts to birds <https://www.fws.gov/library/collections/avoiding-and-minimizing-incident-take-migratory-birds>
- Nationwide conservation measures for birds <https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf>
- Supplemental Information for Migratory Birds and Eagles in IPaC <https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action>

WETLANDS

Impacts to [NWI wetlands](#) and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local [U.S. Army Corps of Engineers District](#).

Please note that the NWI data being shown may be out of date. We are currently working to update our NWI data set. We recommend you verify these results with a site visit to determine the actual extent of wetlands on site.

THERE ARE NO WETLANDS WITHIN YOUR PROJECT AREA.

IPAC USER CONTACT INFORMATION

Agency: Private Entity
Name: Michael Fesanco
Address: 10748 Deerwood Park Blvd South
City: Jacksonville
State: FL
Zip: 32256
Email: michael.fesanco@rsandh.com
Phone: 3217952840

Endangered Species Act Review

- Request an official species list
- Evaluate Determination Keys Complete
- ③ Analyze project (optional)
- ④ Download documentation

DETERMINATION KEY

Wood Stork Determination Key

Release date: May 1, 2023

You completed the latest version of this key, published May 1, 2023, and reached a determination of not applicable for species or critical habitats covered by the key.

This key is for determining effects to the threatened wood stork resulting from U.S. Army Corps of Engineers' (Corps) permit applications. The purpose of this Key is to assist IPaC users in making appropriate effects determinations for threatened wood stork resulting from U.S. Army Corps of Engineers' (Corps) permit applications pursuant to section 7 of the [Endangered Species Act of 1973](#), as amended (Act) (87 Stat. 884; 16 U.S.C. 1531 et seq.) The Key is intended to streamline consultation with the U.S. Fish and Wildlife Service (Service) when the proposed action can be walked through the Key and the appropriate conclusion is the proposed action will have no effect or may affect but not likely to adversely affect the wood stork. For projects where the Service believes that further evaluation of the proposed project is necessary, the Key recommends contacting the local field office and requesting consultation. The Service intends to develop decision keys in the future to provide technical assistance for section 7 consultation for other listed species. Therefore, the Service highly recommends continuing to check this site for improvements and additional streamlining opportunities for other listed species.

The U.S. Fish and Wildlife Service is the lead Federal agency charged with the protection and conservation of Federal Trust Resources, such as threatened and endangered species and migratory birds, in accordance with section 7 of the [Endangered Species Act of 1973](#), as amended (Act) (87 Stat. 884; 16 U.S.C. 1531 et seq.), the [Marine Mammal Protection Act](#), the [Bald and Golden Eagle Protection Act](#), (16 U.S.C. 668-668d) (Eagle Act), and the [Migratory Bird Treaty Act](#) (40 Stat. 755; 16 U.S.C. 701 et seq.).

This key is based on the following documents:
[The Corp's Determination Guidance for Endangered & Threatened Species \(EDGES\)](#)
[Central and North Peninsular Florida 2008 wood stork consultation key](#)
[South Florida 2010 wood stork consultation key](#)

Species covered by this key

This key covers the following species, and critical habitat for these species, expected to occur in this project area:

Wood Stork *Mycteria americana*

Critical habitats covered by this key

This key covers the critical habitats for the following species expected to occur in this project area:

None

For more information about this determination key, including a list of all potential questions, refer to the [detailed overview](#).

Qualification interview

1. Does the proposed action require a permit (nationwide, general, or individual permits) from the U.S. Army Corps of Engineers?

No

Your project is outside the scope of this determination key. Please contact the local Ecological Service Field Office if you need additional information regarding the wood stork.

Florida Natural Areas Inventory - Hillsborough County

Plants & Lichens

Group	Scientific Name	Common Name	Global Rank	State Rank	Federal Status	State Status	Tracked?
Plants and Lichens	<i>Acrostichum aureum</i> 🌿	golden leather fern	G5	S3		T	Y
Plants and Lichens	<i>Adiantum tenerum</i> 🌿	brittle maidenhair fern	G5	S3		E	Y
Plants and Lichens	<i>Agrimonia incisa</i> 🌿	incised groove-bur	G3	S2		T	Y
Plants and Lichens	<i>Andropogon arctatus</i> 🌿	pinewoods bluestem	G3	S3		T	Y
Plants and Lichens	<i>Asplenium auritum</i> 🌿	auricled spleenwort	G5	S2		E	Y
Plants and Lichens	<i>Astragalus obcordatus</i> 🌿	Florida milkvetch	G3G4	S2S3		N	Y
Plants and Lichens	<i>Bonamia grandiflora</i> 🌿	Florida bonamia	G3	S3	T	E	Y
Plants and Lichens	<i>Calopogon multiflorus</i> 🌿	many-flowered grass-pink	G2G3	S2S3		T	Y
Plants and Lichens	<i>Carex chapmanii</i> 🌿	Chapman's sedge	G3	S3		T	Y
Plants and Lichens	<i>Centrosema arenicola</i> 🌿	sand butterfly pea	G2Q	S2		E	Y
Plants and Lichens	<i>Cheiroglossa palmata</i> 🌿	hand fern	G4	S3		E	Y
Plants and Lichens	<i>Chionanthus pygmaeus</i> 🌿	pygmy fringe tree	G2G3	S2S3	E	E	Y
Plants and Lichens	<i>Chrysopsis floridana</i> 🌿	Florida goldenaster	G3	S3	E, PDL	E	Y

Plants and Lichens	<i>Glandularia tampensis</i> 🌿	Tampa vervain	G2	S2		E	Y
Plants and Lichens	<i>Gymnopogon chapmanianus</i> 🌿	Chapman's skeletongrass	G3	S3		N	Y
Plants and Lichens	<i>Helianthus debilis</i> ssp. <i>vestitus</i> 🌿	hairy beach sunflower	G5T2	S2		N	Y
Plants and Lichens	<i>Hypoxis sessilis</i> 🌿	glossyseed yellow stargrass	G3	S2S3		N	Y
Plants and Lichens	<i>Lechea cernua</i> 🌿	nodding pinweed	G3	S3		T	Y
Plants and Lichens	<i>Lechea divaricata</i> 🌿	pine pinweed	G2	S2		E	Y
Plants and Lichens	<i>Lythrum flagellare</i> 🌿	lowland loosestrife	G3	S3	UR	E	Y
Plants and Lichens	<i>Matelea floridana</i> 🌿	Florida spiny-pod	G2	S2		E	Y
Plants and Lichens	<i>Meniscium serratum</i> 🌿	toothed maiden fern	G5	S1		E	Y
Plants and Lichens	<i>Nolina brittoniana</i> 🌿	Britton's beargrass	G3	S3	E	E	Y
Plants and Lichens	<i>Pecluma dispersa</i> 🌿	widespread polypody	G5	S2		E	Y
Plants and Lichens	<i>Pecluma plumula</i> 🌿	plume polypody	G5	S2		E	Y
Plants and Lichens	<i>Pecluma ptilodon</i> var. <i>bourgeauana</i> 🌿	comb polypody	G5? TNR	S2		E	Y
Plants and Lichens	<i>Protocodon robiniae</i> 🌿	Brooksville bellflower	G1	S1	E	E	Y

Plants and Lichens	<i>Rhynchospora megaplumosa</i> 	large-plumed beaksedge	G2	S2		E	Y
Plants and Lichens	<i>Schizachyrium niveum</i> 	scrub bluestem	G1G2	S1S2		E	Y
Plants and Lichens	<i>Schwalbea americana</i> 	chaffseed	G2	S1	E	E	Y
Plants and Lichens	<i>Stachys agraria</i> 	shade betony	G5	S1		N	Y
Plants and Lichens	<i>Tephrosia corallicola</i> 	rockland hoary-pea	G1	S1		E	Y
Plants and Lichens	<i>Tephrosia curtissii</i> 	Curtiss's hoary-pea	G1	S1		E	Y
Plants and Lichens	<i>Triphora amazonica</i> 	broad-leaved nodding-caps	GU	S1		E	Y
Plants and Lichens	<i>Vachellia tortuosa</i> 	poponax	G4G5	S1		E	Y
Plants and Lichens	<i>Zephyranthes simpsonii</i> 	redmargin zephyrlily	G2G3	S2S3		T	Y

Invertebrates

Group	Scientific Name	Common Name	Global Rank	State Rank	Federal Status	State Status	Tracked?
Clams and Mussels	<i>Utterbackia peninsularis</i> ☞	Peninsular Floater	G2G3	S2S3		N	Y
Clams and Mussels	<i>Villosa amygdala</i> ☞	Florida Rainbow	G3	S3		N	Y
Mayflies	<i>Attenella attenuata</i> ☞	Hirsute Mayfly	G5	S1S2		N	Y
Mayflies	<i>Stenacron floridense</i> ☞	A Mayfly	G3G4	S3S4		N	Y
Dragonflies and Damselflies	<i>Dromogomphus armatus</i> ☞	Southeastern Spinyleg	G4	S3		N	Y
Dragonflies and Damselflies	<i>Gomphurus modestus</i> ☞	Gulf Coast Clubtail	G3G4	S1		N	Y
Dragonflies and Damselflies	<i>Leptobasis lucifer</i> ☞	Lucifer Swampdamselfly	G4G5	S2		N	Y
Dragonflies and Damselflies	<i>Lestes tenuatus</i> ☞	Blue-striped Spreadwing	G5	S3		N	Y
Grasshoppers and Allies	<i>Typhlocyba floridana</i> ☞	Blind Pocket Gopher Cave Cricket	G2	S2		N	Y
Beetles	<i>Aphodius aegrotus</i> ☞	Small Pocket Gopher Aphodius Beetle	G3G4	S3?		N	Y
Beetles	<i>Aphodius laevigatus</i> ☞	Large Pocket Gopher Aphodius Beetle	G3G4	S3?		N	Y
Beetles	<i>Bolbocerosoma hamatum</i> ☞	Bicolored Burrowing Scarab Beetle	G3G4	S3		N	Y
Beetles	<i>Chelyoxenus xerobatis</i> ☞	Gopher Tortoise Hister Beetle	G2G3	S2		N	Y

Beetles	<i>Haroldiataenius saramari</i> [®]	Sand Pine Scrub Ataenius Beetle	G3G4	S3S4		N	Y
Beetles	<i>Hypotrichia spissipes</i> [®]	Florida Hypotrichia Scarab Beetle	G3G4	S3S4		N	Y
Beetles	<i>Ischyryus dunedinensis</i> [®]	Three Spotted Pleasing Fungus Beetle	G2G3	S2S3		N	Y
Beetles	<i>Micronaspis floridana</i> [®]	Florida Intertidal Firefly	G3?	S3		N	Y
Beetles	<i>Onthophagus polyphemi polyphemi</i> [®]	Punctate Gopher Tortoise Onthophagus Beetle	G2G3T2T3	S2		N	Y
Beetles	<i>Peltotrupes profundus</i> [®]	Florida Deepdigger Scarab Beetle	G3	S3		N	Y
Beetles	<i>Phyllophaga elongata</i> [®]	Elongate June Beetle	G3	S3		N	Y
Beetles	<i>Selonodon mandibularis</i> [®]	Large-Jawed Cebrioid Beetle	G2G4	S2S4		N	Y
Caddisflies	<i>Hydroptila bernerii</i> [®]	Berner's Microcaddisfly	G4G5	S3		N	Y
Caddisflies	<i>Hydroptila wakulla</i> [®]	Wakulla Springs Varicolored Microcaddisfly	G2	S2		N	Y
Caddisflies	<i>Ochrotrichia provosti</i> [®]	Provost's Somber Caddisfly	GH	SH		N	Y
Caddisflies	<i>Orthotrichia curta</i> [®]	Short Orthotrichian Microcaddisfly	G4	S2S3		N	Y
Caddisflies	<i>Orthotrichia dentata</i> [®]	Dentate Orthotrichian Microcaddisfly	G2G3	S2		N	Y


Caddisflies	<i>Oxyethira florida</i> [®]	Florida Cream and Brown Microcaddisfly	G2	S2		N	Y
Caddisflies	<i>Triaenodes furcellus</i> [®]	Little-fork Triaenode Caddisfly	G3	S3		N	Y
Butterflies and Moths	<i>Aphrissa statira</i> [®]	Statira	G5	S2S3		N	Y
Butterflies and Moths	<i>Euphyes dukesi calhouni</i> [®]	Calhoun's Skipper	G3G4T2T3	S2S3	UR	N	Y
Butterflies and Moths	<i>Idia gopheri</i> [®]	Gopher Tortoise Noctuid Moth	G2G3	S2S3		N	Y
Ants, Bees, and Wasps	<i>Bombus fraternus</i> [®]	Southern Plains Bumble Bee	G3G4	S3		N	Y
Ants, Bees, and Wasps	<i>Colletes titusensis</i> [®]	A Cellophane Bee	G2G3	S2S3		N	Y
Ants, Bees, and Wasps	<i>Stelis ater</i> [®]	Southwest Florida Stelis Bee	G2	S2		N	Y

Vertebrates

Group	Scientific Name	Common Name	Global Rank	State Rank	Federal Status	State Status	Tracked?
Fishes	<i>Microphis brachyurus</i> [Ⓢ]	Opossum Pipefish	G4G5	S2	SC	N	Y
Amphibians	<i>Lithobates capito</i> [Ⓢ]	Gopher Frog	G2G3	S3	UR	N	Y
Reptiles	<i>Alligator mississippiensis</i> [Ⓢ]	American Alligator	G5	S4	SAT	FT(S/A)	Y
Reptiles	<i>Caretta caretta</i> [Ⓢ]	Loggerhead Sea Turtle	G3	S3	T	FT	Y
Reptiles	<i>Chelonia mydas</i> [Ⓢ]	Green Sea Turtle	G3	S2S3	T	FT	Y
Reptiles	<i>Crotalus adamanteus</i> [Ⓢ]	Eastern Diamondback Rattlesnake	G3	S3	UR	N	Y
Reptiles	<i>Dermochelys coriacea</i> [Ⓢ]	Leatherback Sea Turtle	G2	S2	E	FE	Y
Reptiles	<i>Drymarchon couperi</i> [Ⓢ]	Eastern Indigo Snake	G3	S2?	T	FT	Y
Reptiles	<i>Gopherus polyphemus</i> [Ⓢ]	Gopher Tortoise	G3	S3		ST	Y
Reptiles	<i>Heterodon simus</i> [Ⓢ]	Southern Hognose Snake	G2	S2S3		N	Y
Reptiles	<i>Lampropeltis extenuata</i> [Ⓢ]	Short-tailed Snake	G3	S3	PT	ST	Y
Reptiles	<i>Lampropeltis floridana</i> [Ⓢ]	Florida Kingsnake	G2	S2		N	Y
Reptiles	<i>Pituophis melanoleucus</i> [Ⓢ]	Pine Snake	G4	S3	UR	ST	Y
Reptiles	<i>Plestiodon egregius pop. 1</i> [Ⓢ]	Mole Skink, Egmont Key population	G5T1Q	S1		N	Y

Reptiles	<i>Pseudemys concinna suwanniensis</i> ☼	Suwannee Cooter	G5T3	S3		N	Y
Birds	<i>Antigone canadensis pratensis</i> ☼	Florida Sandhill Crane	G5T2	S2		ST	Y
Birds	<i>Aphelocoma coerulescens</i> ☼	Florida Scrub-Jay	G1G2	S1S2	T	FT	Y
Birds	<i>Aramus guarauna</i> ☼	Limpkin	G5	S3		N	Y
Birds	<i>Athene cunicularia floridana</i> ☼	Florida Burrowing Owl	G4T3	S3		ST	Y
Birds	<i>Buteo brachyurus</i> ☼	Short-tailed Hawk	G4G5	S1		N	Y
Birds	<i>Charadrius nivosus</i> ☼	Snowy Plover	G3	S1		ST	Y
Birds	<i>Egretta caerulea</i> ☼	Little Blue Heron	G5	S4		ST	Y
Birds	<i>Egretta rufescens</i> ☼	Reddish Egret	G4	S2		ST	Y
Birds	<i>Egretta thula</i> ☼	Snowy Egret	G5	S3		N	Y
Birds	<i>Egretta tricolor</i> ☼	Tricolored Heron	G5	S4		ST	Y
Birds	<i>Eudocimus albus</i> ☼	White Ibis	G5	S4		N	Y
Birds	<i>Haematopus palliatus</i> ☼	American Oystercatcher	G5	S2		ST	Y
Birds	<i>Haliaeetus leucocephalus</i> ☼	Bald Eagle	G5	S3		N	Y
Birds	<i>Hydroprogne caspia</i> ☼	Caspian Tern	G5	S2		N	Y
Birds	<i>Mycteria americana</i> ☼	Wood Stork	G4	S2	DL	FT	Y

Birds	<i>Nyctanassa violacea</i> ☾	Yellow-crowned Night-heron	G5	S3		N	Y
Birds	<i>Nycticorax nycticorax</i> ☾	Black-crowned Night-heron	G5	S3		N	Y
Birds	<i>Pandion haliaetus</i> ☾	Osprey	G5	S3S4		N	Y
Birds	<i>Platalea ajaja</i> ☾	Roseate Spoonbill	G5	S2		ST	Y
Birds	<i>Plegadis falcinellus</i> ☾	Glossy Ibis	G5	S3		N	Y
Birds	<i>Rallus longirostris scottii</i> ☾	Florida Clapper Rail	G5T3?	S3?		N	Y
Birds	<i>Rynchops niger</i> ☾	Black Skimmer	G5	S3		ST	Y
Birds	<i>Sternula antillarum</i> ☾	Least Tern	G4	S3		ST	Y
Birds	<i>Thalasseus maximus</i> ☾	Royal Tern	G5	S3		N	Y
Birds	<i>Thalasseus sandvicensis</i> ☾	Sandwich Tern	G5	S2		N	Y
Mammals	<i>Eptesicus fuscus</i> ☾	Big Brown Bat	G5	S3		N	Y
Mammals	<i>Mustela frenata peninsulæ</i> ☾	Florida Long-tailed Weasel	G5T3?	S3?		N	Y
Mammals	<i>Podomys floridanus</i> ☾	Florida Mouse	G3	S3		N	Y
Mammals	<i>Sciurus niger niger</i> ☾	Southeastern Fox Squirrel	G5T5	S3		N	Y
Mammals	<i>Trichechus manatus latirostris</i> ☾	Florida Manatee	G2G3T2	S2S3	T	N	Y

Mammals	<i>Ursus americanus floridanus</i> 	Florida Black Bear	G5T4	S4		N	Y
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Natural Communities

Group	Scientific Name	Common Name	Global Rank	State Rank	Federal Status	State Status	Tracked?
Natural Communities	<i>Beach dune</i>		G3	S2		N	Y
Natural Communities	<i>Coastal grassland</i>		G3	S2		N	Y
Natural Communities	<i>Estuarine composite substrate</i>		G3	S3		N	Y
Natural Communities	<i>Estuarine consolidated substrate</i>		G3	S3		N	Y
Natural Communities	<i>Estuarine unconsolidated substrate</i>		G5	S5		N	Y
Natural Communities	<i>Hydric hammock</i>		G4	S4		N	Y
Natural Communities	<i>Mangrove swamp</i>		G5	S4		N	Y
Natural Communities	<i>Marine mollusk reef</i>		G3	S3		N	Y
Natural Communities	<i>Marine seagrass bed</i>		G3	S2		N	Y
Natural Communities	<i>Maritime hammock</i>		G3	S2		N	Y
Natural Communities	<i>Mesic flatwoods</i>		G4	S4		N	Y
Natural Communities	<i>Salt marsh</i>		G5	S4		N	Y
Natural Communities	<i>Sandhill</i>		G3	S2		N	Y
Natural Communities	<i>Scrub</i>		G2	S2		N	Y

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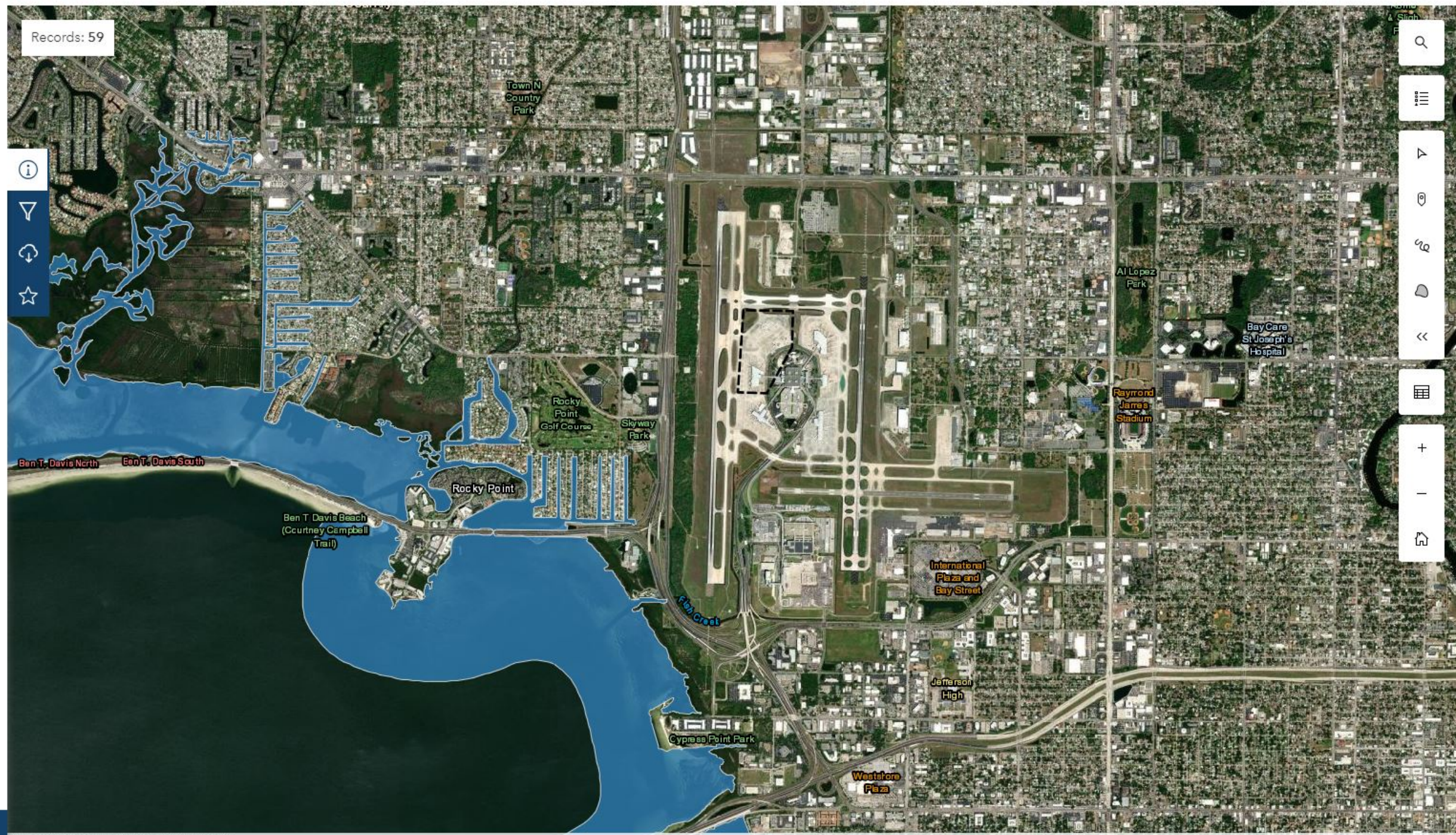
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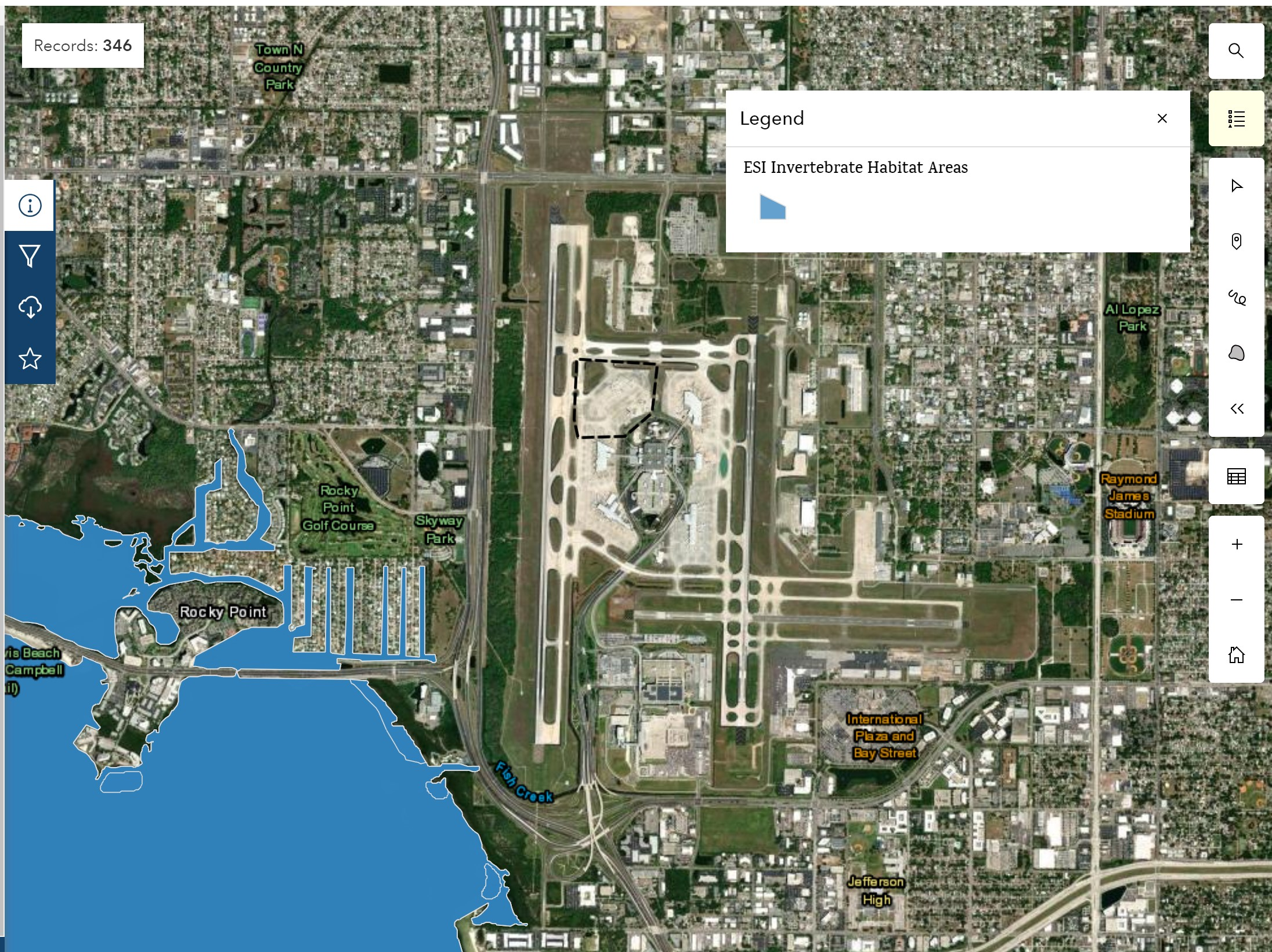
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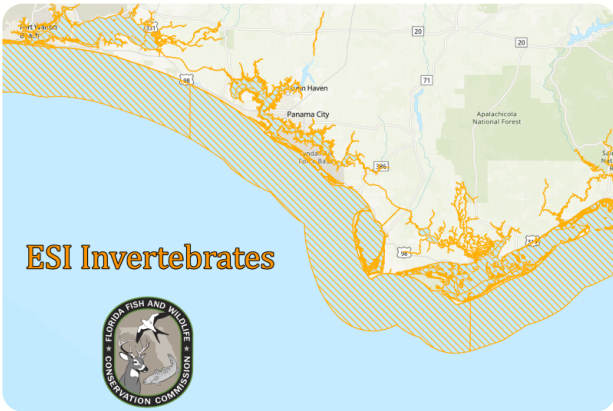
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This data set contains sensitive biological resource data for marine and estuarine invertebrate species in South Florida (2013), Panhandle Florida (2012), and the rest of Florida (2003). The data were originally delivered as coverages with a region polygon format which allowed overlaps, representing invertebrate distribution and concentration areas. These overlapping polygons are retained in the final geodatabase feature classes. Species specific abundance, seasonality, status, life history, and source ID information have been joined to the attribute table. Source details are stored in a separate related SOURCES data table designed to be used in conjunction with this spatial data layer. This data set comprises a portion of the ESI data for Florida. ESI data characterize the marine and coastal environments and wildlife by their sensitivity to spilled oil. The ESI data include information for three main components: shoreline habitats, sensitive biological resources, and human-use resources. Environmental Sensitivity Index (ESI) is more properly known as "Sensitivity of Coastal Habitats and Wildlife to Spilled Oil" Atlases. The term "ESI" is often used in reference to the whole dataset, but the term "ESI" is really a reference to the classification system of shoreline types known as Environmental Sensitivity Index, that classifies a shoreline on a scale from 1 to 10 based upon overall sensitivity to spilled oil. FWRI contracted out updates to Florida's ESI data for the Panhandle and South Florida in the years 2010 through early 2013. These datasets were delivered as coverages in region-polygon format that allow for overlapping polygons in the same manner as FWRI's older ESI GIS data (in Gulf-Wide Information System (GWIS) format/specification). Hundreds of new species were added and the regional products were completed and delivered as promised. However, FWRI wanted and needed a statewide product for use within the Marine Resources Geographic Information System (MRGIS) and the Florida Marine Spill Analysis System (FMSAS). This data set is a compilation of the most recent ESI mapping for each area of Florida.

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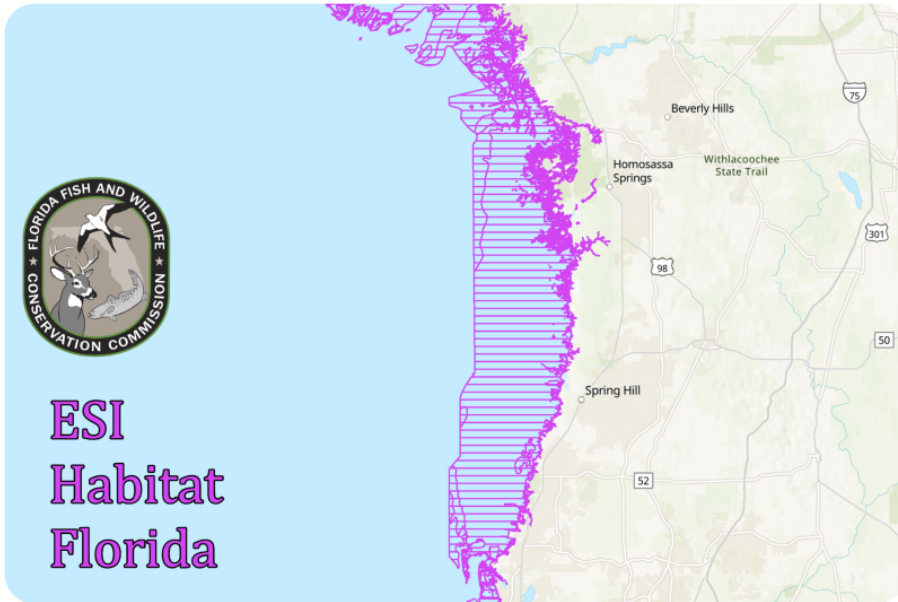
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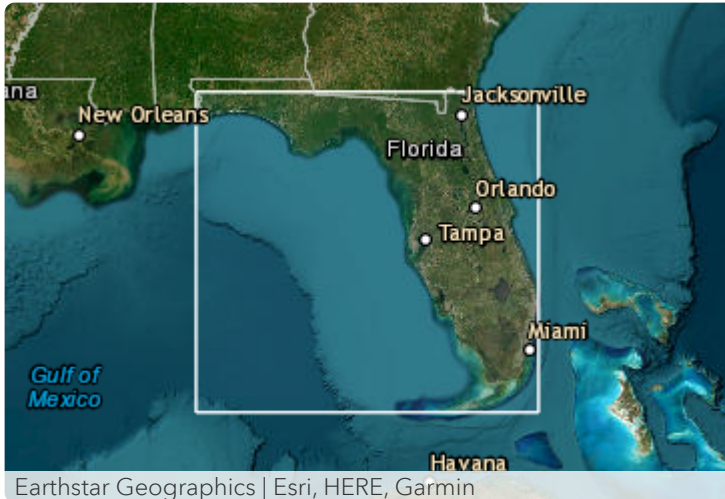


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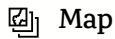
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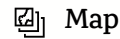
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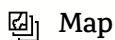
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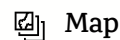


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Summary

To visually represent the most recent Environmental Sensitivity Index data available for each area within the state of Florida.

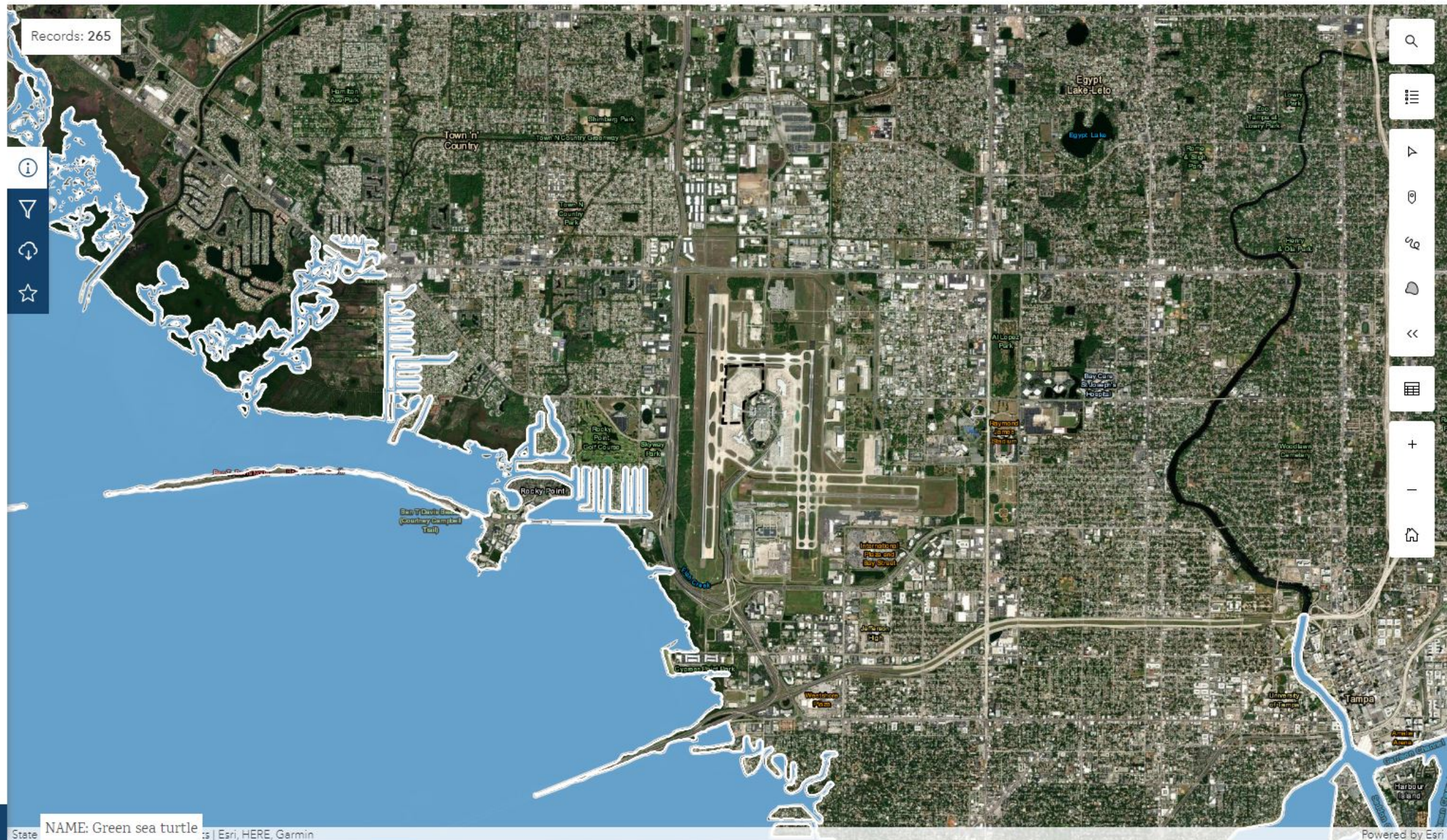
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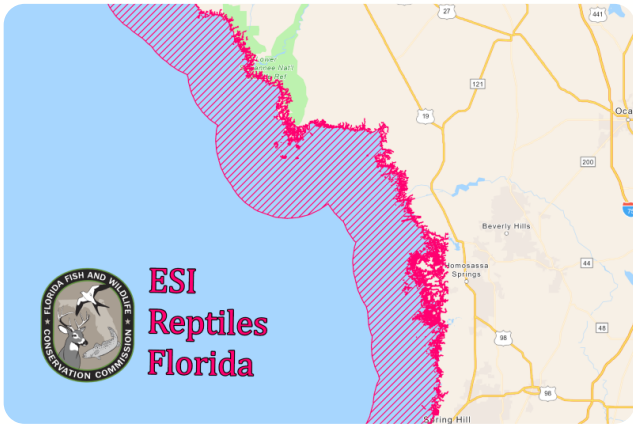
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ESI Reptile Habitat Areas



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Summary

To visually represent the most recent Environmental Sensitivity Index data available for each area within the state of Florida.

This data set contains sensitive biological resource data for sea turtles, crocodiles, mangrove terrapins, and other rare species in South Florida (2013), Panhandle Florida (2012), and the rest of Florida (2003). The data were originally delivered as coverages with a region polygon format which allowed overlaps, representing reptile distribution and nesting areas. These overlapping polygons are retained in the final geodatabase feature classes. Species specific abundance, seasonality, status, life history, and source ID information have been joined to the attribute table. Source details are stored in a separate related SOURCES data table designed to be used in conjunction with this spatial data layer. This data set comprises a portion of the ESI data for Florida. ESI data characterize the marine and coastal environments and wildlife by their sensitivity to spilled oil. The ESI data include information for three main components: shoreline habitats, sensitive biological resources, and human-use resources. See also REPTILES_PT for additional information on reptiles. Environmental Sensitivity Index (ESI) is more properly known as "Sensitivity of Coastal Habitats and Wildlife to Spilled Oil" Atlases. The term "ESI" is often used in reference to the whole dataset, but the term "ESI" is really a reference to the classification system of shoreline types known as Environmental Sensitivity Index, that classifies a shoreline on a scale from 1 to 10 based upon overall sensitivity to spilled oil. FWRI contracted out updates to Florida's ESI data for the Panhandle and South Florida in the years 2010 through early 2013. These datasets were delivered as coverages in region-polygon format that allow for overlapping polygons in the same manner as FWRI's older ESI GIS data (in Gulf-Wide Information System (GWIS) format/specification). Hundreds of new species were added and the regional products were completed and delivered as promised. However, FWRI wanted and needed a statewide product for use within the Marine Resources Geographic Information System (MRGIS) and the Florida Marine Spill Analysis System (FMSAS). This data set is a compilation of the most recent ESI mapping for each area of Florida.

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ESI Land Mammal Habitat Areas

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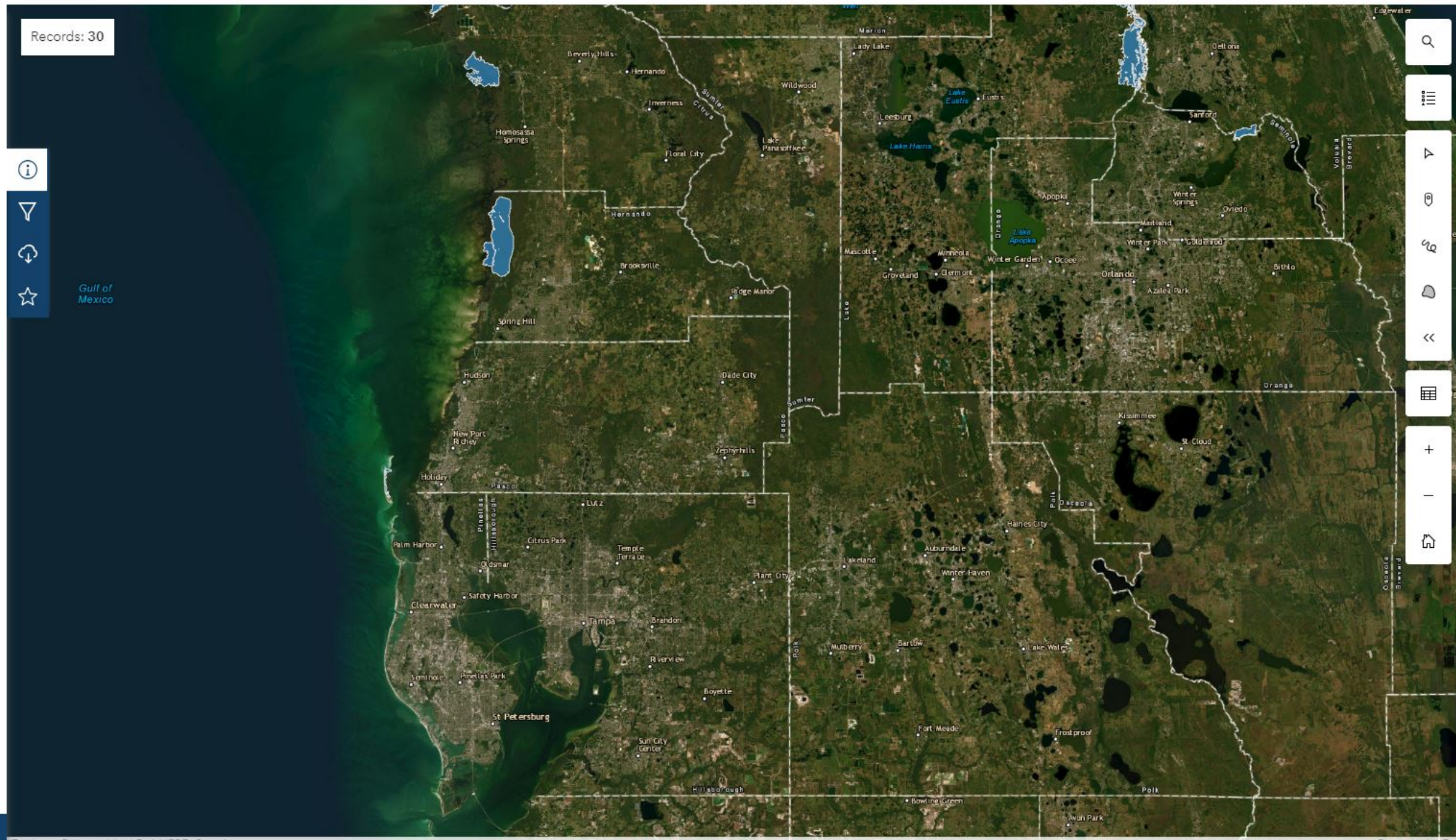
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ESI Land Mammal Habitat Areas



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Summary

To visually represent the most recent Environmental Sensitivity Index data available for each area within the state of Florida.

This data set contains sensitive biological resource data for State and Federally threatened and endangered terrestrial mammals in South Florida (2013), Panhandle Florida (2012), and the rest of Florida (2003). The data were originally delivered as coverages with a region polygon format which allowed overlaps, representing State and Federally threatened and endangered terrestrial mammal distribution. These overlapping polygons are retained in the final geodatabase feature classes. Species specific abundance, seasonality, status, life history, and source ID information have been joined to the attribute table. Source details are stored in a separate related SOURCES data table designed to be used in conjunction with this spatial data layer. This data set comprises a portion of the ESI data for Florida. ESI data characterize the marine and coastal environments and wildlife by their sensitivity to spilled oil. The ESI data include information for three main components: shoreline habitats, sensitive biological resources, and human-use resources. Environmental Sensitivity Index (ESI) is more properly known as "Sensitivity of Coastal Habitats and Wildlife to Spilled Oil" Atlases. The term "ESI" is often used in reference to the whole dataset, but the term "ESI" is really a reference to the classification system of shoreline types known as Environmental Sensitivity Index, that classifies a shoreline on a scale from 1 to 10 based upon overall sensitivity to spilled oil. FWRI contracted out updates to Florida's ESI data for the Panhandle and South Florida in the years 2010 through early 2013. These datasets were delivered as coverages in region-polygon format that allow for overlapping polygons in the same manner as FWRI's older ESI GIS data (in Gulf-Wide Information System (GWIS) format/specification). Hundreds of new species were added and the regional products were completed and delivered as promised. However, FWRI wanted and needed a statewide product for use within the Marine Resources Geographic Information System (MRGIS) and the Florida Marine Spill Analysis System (FMSAS). This data set is a compilation of the most recent ESI mapping for each area of Florida.

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