APPENDIX J

INFORMATION FOR PLANNING AND CONSULTATION

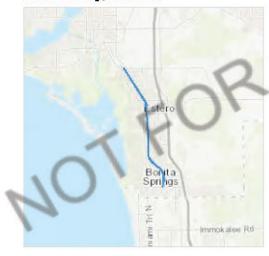
IPaC resource list

This report is an automatically generated list of species and other resources such as criticalabitat (collectively referred to as trust resources) under the U.S. Fish and Wildlife Service's (USFWS) jurisdiction that are known or expected to be on or near the project areaeferenced below. The list may also include trust resources that occur outside of the project area, but that could potentially be directly or indirectly affected by activities in the project area. However, determining the likelihood and extent of effects a project may have on trust resources typically requires gathering additional site-specific (e.g., vegetation/species surveys) andproject-specific (e.g., magnitude and timing of proposed activities) information.

Below is a summary of the project information you provided and contact information for the USFWS office(s) with jurisdiction in the defined project area. Please read the introduction to each section that follows (Endangered Species, Migratory Birds, USFWS Facilities, and NWI Wetlands) for additional information applicable to the trust resources addressed in that section. COMSU

Location

Lee County, Florida



Local office

South Florida Ecological Services Field Office

(772) 562-3909

1 (772) 562-4288

1339 20th Street

Vero Beach, FL 32960-3559

http://fws.gov/verobeach

Endangered species

This resource list is for informational purposes only and does not constitute an analysis of project level impacts.

The primary information used to generate this list is the known or expected range of each species. Additional areas of influence (AOI) for species are also considered. An AOI includes areas outside of the species range if the species could be indirectly affected by activities in that area (e.g., plading a dam upstream of a fish population even if that fish does not occur at the dam site, may indirectly impact the species by reducing or eliminating water flow downstream). Because species can move, and site conditions can change, the species on this list are not guaranteed to be found on or near the project area. To fully determine any potential effects to species, additional site-specific and project-specific information is often required.

Section 7 of the Endangered Species Act requires Federal agencies to "request of the Secretary Information whether any species which is listed or proposed to be listed may be present in the area of such proposed action" for any project that is conducted, permitted, funded, or licensed by any Federal agency. A letter from the local office and a species list which fulfills this requirement can only be obtained by requesting an official species list from either the Regulatory Review section in IPaC (see directions below) or from the local field office directly.

For project evaluations that require USFWS concurrence/review, please return to the IPaC website and request an official species list by doing the following:

- Draw the project location and dick CONTINUE.
- 2. Click DEFINE PROJECT.
- 3. Log in (if directed to do so).
- Provide a name and description for your project.
- 5. Click REQUEST SPECIES LIST.

Listed species¹ and their critical habitats are managed by the cological Services Program of the U.S. Hish and Wildlife Service (USFWS) and the fisheries division of the National Oceanic and Atmospheric Administration (NOAA Fisheries³).

Species and critical habitats under the sole responsibility of NOAA Hisheries are not shown on this list. Please contact NOAA Hisheries for species under their jurisdiction.

- Species listed under the <u>Endangered Species Act</u> are threatened or endangered; IPaC also shows species that are candidates, or proposed, for listing. See the <u>isting status page</u> for more information. IPaC only shows species that are regulated by USFWS (see FAQ).
- 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.

The following species are potentially affected by activities in this location:

Mammals

NAME STATUS

Florida Bonneted Bat Eumops floridanus

Wherever found

There is proposed critical habitat for this species. The location of the critical habitat is not available.

https://ecos.fws.gov/ecp/species/8630

Florida Panther Puma (=Felis) concolor coryl

Wherever found

No critical habitat has been designated for this species.

https://ecos.fws.gov/ecn/spedes/1763

Puma (=mountain Lion) Puma (=Felis) concolor (all subsp. except SAT corvi)

No critical habitat has been designated for this species.

https://ecos.fws.gov/ecp/species/6049

Birds

NAME STATUS

Everglade Snall Kite Rostrhamus sociabilis piumbeus

Wherever found

There is final critical habitat for this species. The location of the critical habitat is not available.

https://ecos.fws.gov/ecp/species/7713

Florida Scrub-jay Aphelocoma coerulescens

Wherever found

No critical habitat has been designated for this species.

https://ecos.fws.gov/ecn/snecles/6174

Red Knot Calidris canutus rufa

Wherever found

There is proposed critical habitat for this species. The location of the critical habitat is not available.

https://ecos.fws.gov/ecp/spedes/1864

Red-cockaded Woodpecker Picoides borealis

Wherever found

No critical habitat has been designated for this species.

https://ecos.fws.gov/ecp/species/7614

Wood Stork Mycteria americana

No critical habitat has been designated for this species.

https://ecos.fws.gov/ecn/species/8477

J. 171.0

Endangered

TION

Endangered

Endangered

Threatened

Threatened

Endangered

Threatened

Reptiles

11/10/21, 11:05 AM IPaC: Explore Locatba resist roes NAME STATUS American Alligator Alligator mississipplensis SAT Wherever found No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/spedes/776 American Crocodile Crocodylus acutus Threatened There is final critical habitat for this species. The location of the critical habitat is not available. https://ecos.fws.gov/eco/species/6604 Eastern Indigo Snake Drymarchon corais couper! Threatened Wherever found NON No critical habitat has been designated for this species. https://ecos.fws.gov/ecn/species/646 Kemp's Ridley Sea Turtle Lepidochelys kempil Endangered Wherever found There is proposed critical habitat for this species. The location of the critical habitat is not available. https://ecos.fws.gov/eco/species/5523 Loggerhead Sea Turtle Caretta caretta Threatened There is final critical habitat for this species. The location of the critical habitat is not available. https://ecos.fws.gov/ecp/spedes/1110 Fishes NAME STATUS Guif Sturgeon Adpenser oxyrinchus (=oxyrhynchus) desotol Threatened Wherever found There is final critical habitat for this species. The location of the critical habitat is not available. https://ecos.fws.gov/ecp/species/651 Insects NAME STATUS

Miami Blue Butterfly Cyclargus (=Hemiargus) thomasi. Endangered bethune bakerl Wherever found No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/spedes/3797

Monarch Butterfly Danaus plexippus

Manager Better 113 Beneda proxi

Wherever found

No critical habitat has been designated for this species.

https://ecos.fws.gov/ecn/species/9743

Candidate

Flowering Plants

NAME STATUS

Aboriginal Prickly-apple Harrisla (=Cereus) aboriginum (=gradiis)

Endangered

Wherever found

There is final critical habitat for this species. The location of the critical habitat is not available.

https://ecos.fws.gov/ecp/species/2833

Beautiful Pawpaw Deeringothamnus pulchellus

Endangered

Wherever found

No critical habitat has been designated for this species.

https://ecos.fws.gov/ecn/species/4069

Critical habitats

Potential effects to critical habitat(s) in this location must be analyzed along with the endangered species themselves.

This location overlaps the critical habitat for the following species:

NAME TYPE

West Indian Manatee Trichechus manatus

Hnal

For information on why this critical habitat appears for your project, even though West Indian Manatee is not on the list of potentially affected species at this location, contact the local field office.

https://ecos.fws.gov/eco/species/4469@crkhab

Migratory birds

Certain birds are protected under the Migratory Bird Treaty Act and the Baid and Golden Eagle Protection Act.

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats should follow appropriate regulations and consider implementing appropriate conservation measures, as described to be a second to be a second

- 1. The Migratory Birds Treaty Act of 1918.
- The Baid and Golden Eagle Protection Act of 1940.

Additional information can be found using the following links:

- Birds of Conservation Concernitio://www.fws.gov/birds/management/managed-species/ birds-of-conservation-concern.php
- Measures for avoiding and minimizing impacts to birds http://www.fws.gov/birds/management/project-assessment-tools-and-guidance/ conservation-measures.php
- Nationwide conservation measures for birds http://www.fws.gov/migratorybirds/bdf/management/nationwidestandardconservationmeasures.p

The birds listed below are birds of particular concern either because they occur on this FMS Birds of Conservation Concern (BCC) list or warrant special attention in your project location. To learn more about the levels of concern for birds on your list and how this list is generated, see the FAQ below. This is not a list of every bird you may find in this location, nor a guarantee that every bird on this list will be found in your project area. To see exact locations of where birders and the general public have sighted birds in and around your project area, visit the bird data mapping tool (Tip: enter your location, desired date range and a species on your list). For projects that occur off the Atlantic Coast, additional maps and models detailing the relative occurrence and abundance of bird species on your list are available. Links to additional information about Atlantic Coast birds, and other important information about your migratory bird list, including how to properly interpret and use your migratory bird report, can be foundbelow.

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

NAME

BREEDING SEASON (IF A BREEDING SEASON IS INDICATED FOR A BIRD ON YOUR LIST, THE BIRD MAY BREED IN YOUR. PROJECT AREA SOMETIME WITHIN THE TIMEFRAME SPECIFIED, WHICH IS A VERY LIBERAL ESTIMATE OF THE DATES INSIDE WHICH THE BIRD BREEDS ACROSS ITS ENTIRE RANGE, "BREEDS ELSEWHERE" INDICATES THAT THE BIRD DOES NOT LIKELY BREED IN YOUR PROJECT AREA)

American Kestrel Falco sparverius paulus This is a Bird of Conservation Concern (BCC) only in particular Bird. Conservation Regions (BCRs) in the continental USA https://ecos.fws.gov/eco/species/9587

Breeds Apr 1 to Aug 31

American Oystercatcher Haematopus palliatus

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

https://ecos.fws.gov/ecn/species/8935

BreedsApr 15 to Aug 31

Baid Eagle Hallacetus leucocephalus

This is not a Bird of Conservation Concern (BCC) in this area, but warrants attendion because of the Eagle Action for potential susceptibilities in offshore areas from certain types of development or activities.

https://ecos.fws.gov/ecp/species/1626

BreedsSep 1 to Jul 31

Black Skimmer Rynchops niger

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

https://ecos.fws.gov/eco/species/5234

Breeds May 20 to Sep 15

Great Blue Heron Ardea herodias occidentalis

This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA Breeds Jan 1 to Dec 31

Gull-billed Tern Gelochelldon nilotica

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

King Rail Railus elegans

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Maska.

https://ecos.fws.gov/ecp/species/8936

Breeds May 1 to Sep 5

Lesser Yellowlegs Tringa flavipes

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

https://ecos.fws.gov/ecp/species/9679

Breeds elsewhere

Magnificent Frigatebird Fregata magnificens

This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA

Breeds Oct 1 to Apr 30

Mangrove Cuckoo Coccyzus minor

This is a Bird of Conservation Concern (BCC) only in particular Bird. Conservation Regions (BCRs) in the continental USA Breeds Apr 20 to Aug 20

Prairie Warbier Dendroica discolor

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Breeds May 1 to Jul 31

Red-headed Woodpecker Melanerpes erythrocephalus

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Breeds May 10 to Sep 10

Reddish Egret Egretta rufescens

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

https://ecos.fws.gov/ecn/species/7617

Breeds Mar 1 to Sep 15

Ruddy Turnstone Arenaria interpres morinella

This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA Breeds elsewhere

Short-billed Dowitcher Limnodromus griseus

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

https://ecos.fws.gov/ecn/species/9480

Breeds elsewhere

Swallow-tailed Kite Elanoides forficatus

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

https://ecos.fws.gov/ecp/species/8938

Breeds Mar 10 to Jun 30

Willet Tringa semipalmata

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Breeds Apr 20 to Aug 5

Wilson's Ployer Charadrius wilsonia

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Breeds Apr 1 to Aug 20

Probability of Presence Summary

The graphs below provide our best understanding of when birds of concern annost likely to be present in your project area. This information can be used to tallor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read and understand the FAQ "Proper interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

Probability of Presence(**)

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12.4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

- 1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.
- 2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is 0.25/0.25 = 1; at week 20 it is 0.05/0.25 = 0.2.
- The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

To see a bar's probability of presence score, simply hover your mouse cursor over the bar.

Breeding Season 🗐

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

Survey Effort (1)

Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

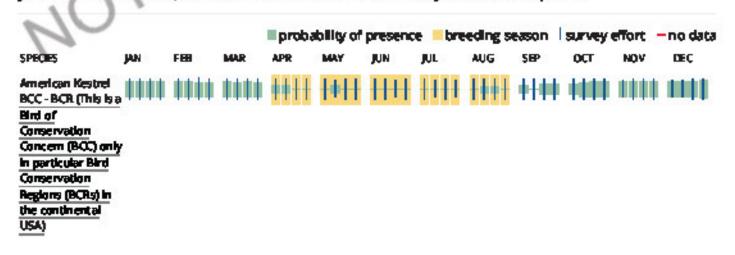
To see a bar's survey effort range, simply hover your mouse cursor over the bar.

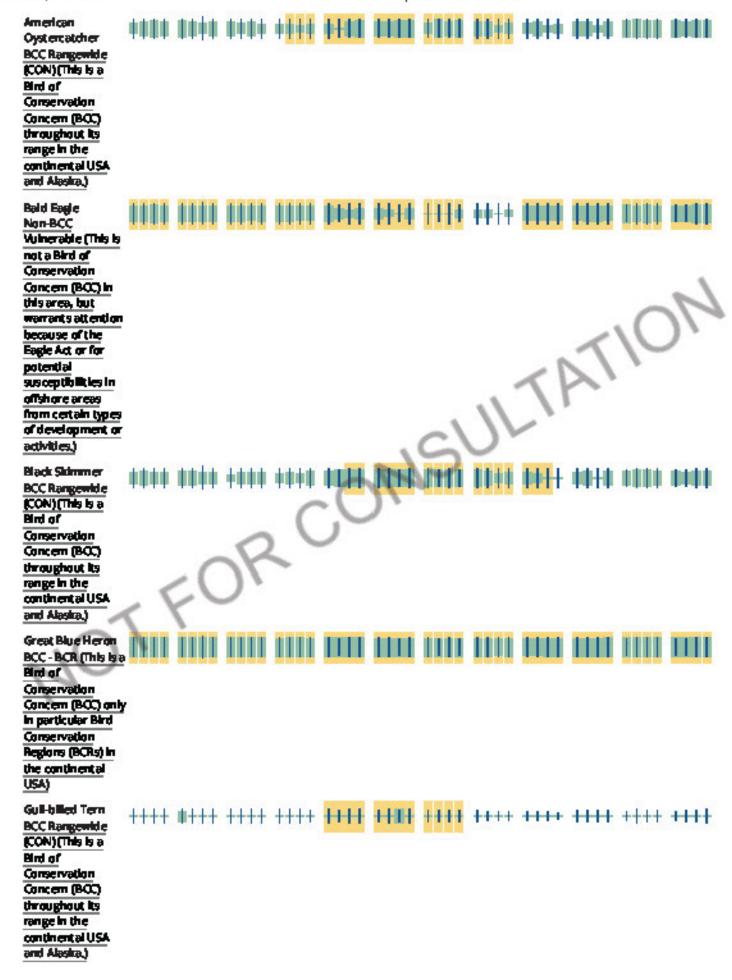
No Data (-)

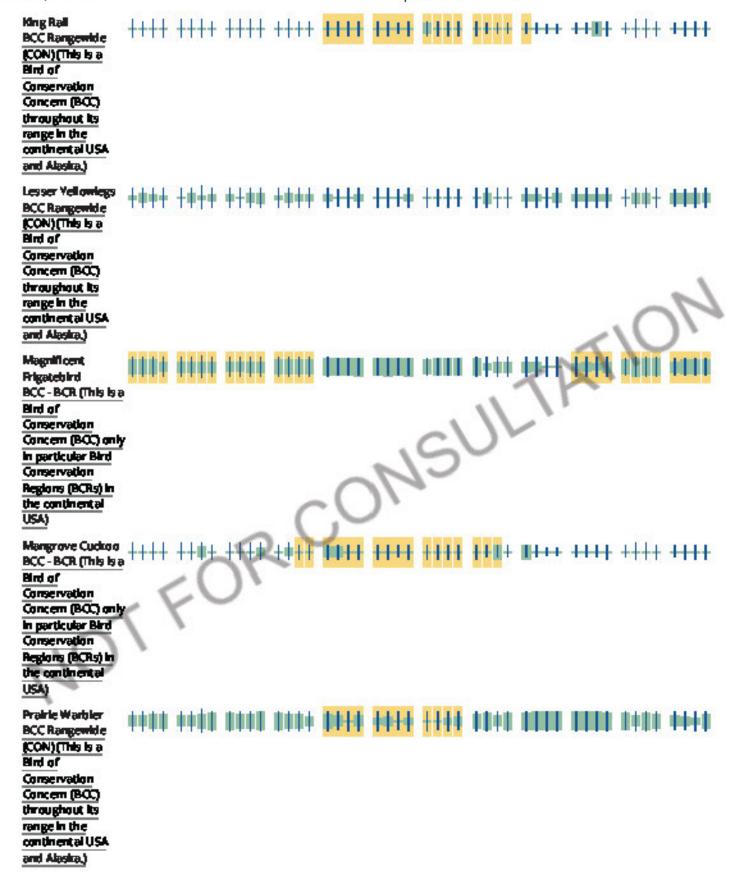
A week is marked as having no data if there were no survey events for that week.

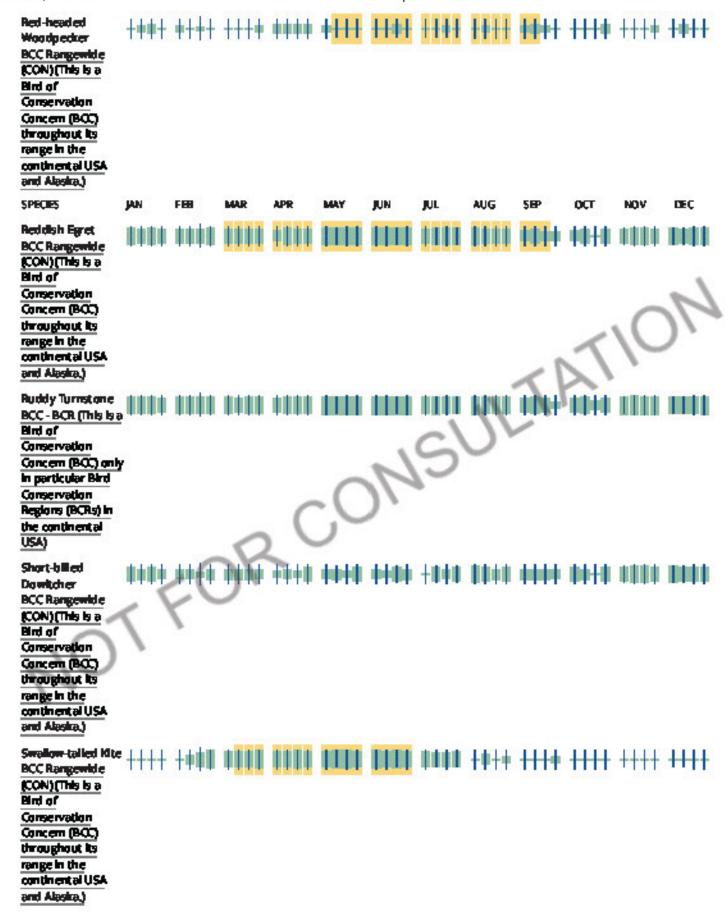
Survey Timeframe

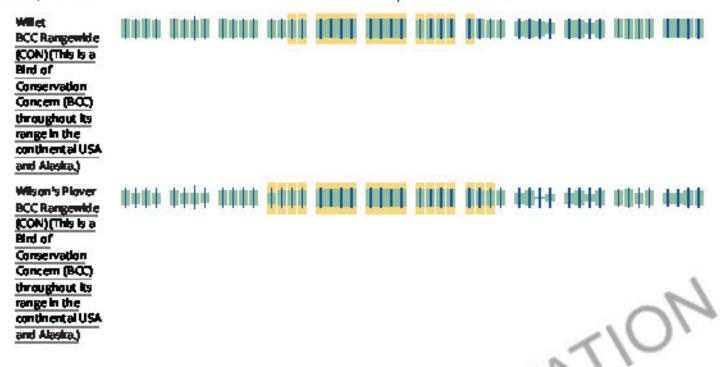
Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of availabledata, since data in these areas is currently much more sparse.











Tell me more about conservation measures i can implement to avoid or minimize impacts to migratory birds.

Nationwide Conservation Measure: describes measures that can help avoid and minimize impacts to all birds at any location year round, implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds maybe breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure. To see when birds are most likely to occur and be breeding in your projectarea, view the Probability of Presence SummaryAdditional measures or parmits may be advisabledepending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

What does IPaC use to generate the migratory birds potentially occurring in my specified location?

The Migratory Bird Resource List is comprised of USPWS<u>linds of Conservation Concern (BCC)</u>and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by thiwian Knowledge Network (AKN). The AKN data is based on a growing collection obuvey, banding, and citizen science dataset and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle Eagle-Act* requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area, it is representative of all birds that may occur in your project area. To get a list of all birds potentially present your project area, please visit the AION Phenology Tool.

What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?

The probability of presence graphs associated with your migratory bird list are based on data provided by the <u>Avian Knowledge Network (AKN)</u>. This data is derived from a growing collection of <u>survey</u>, <u>banding</u>, and <u>citizen</u> science datasets.

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

How do I know if a bird is breeding, wintering, migrating or present year-round in my project area?

To see what part of a particular bird's range your project area falls within (i.e. breeding wintering migrating year-round), you may refer to the following resources the Cornell Lab of Ornithology All About Birds Bird Guideor (if you are unsuccessful in locating the bird of interest there), the ornell Lab of Ornithology Neotropical Birds guide, if a bird on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. Breeds elsewhere is indicated, then the bird likely does not breed in your project area.

What are the levels of concern for migratory birds?

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

- "BCC Rangewide" birds are Birds of Conservation Concern (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
- "BCC BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
- "Non-BCC Vulnerable" birds are not BCC species in your project area, but appear on your list either because
 of the <u>Fagie Act</u> requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from
 certain types of development or activities (e.g., offshore energy development or longline fishing).

Although it is important to try to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially eagles and BCC species of rangewide concernor more information on conservation measures you can implement to help avoid and minimize migratory bird impacts and requirements for eagles, please see the FAQs for these topics.

Details about birds that are potentially affected by offshore projects

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit this ortheast Ocean Data Portal. The Portal also offers data and information about other taxa besides birds that may be helpful to you in your oject review. Alternately, you may download the bird model results files underlying the portal maps through this OAA NCCOS integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelfproject webpage.

Bird tracking data can also provide additional details about occurrence and habitat use throughout the year, including migration. Models relying on survey data may not include this information For additional information on marine bird tracking data, see the <u>Diving Bird Study</u> and the <u>nanotag studies</u> or contact <u>Caleb Spiegel</u> or <u>Parm Loring</u>.

What If I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need t<u>obtain a permit</u> to avoid violating the Eagle Act should such impacts occur,

Proper Interpretation and Use of Your Migratory Bird Report

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds pilority concern. To learn more about how your list is generated, and see options for identifying what other birdsay be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentialtycouring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey effort (indicated by the black vertical bar) and for the existence of this odata" indicator (a red horizontal bar). A high survey effort is the key component, if the survey effort is highten the probability of presence score can be viewed as more dependable, in contrast, a low survey effort bar or miata bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list is notifiect, it is simply a

starting point for identifying what birds of concern have the potential to be in youproject area, when they might be there, and if they might be breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation easures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.

Facilities

National Wildlife Refuge lands

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. NSULTA

THERE ARE NO REFUGE LANDS AT THIS LOCATION.

Fish hatcheries

THERE ARE NO FISH HATCHERIES AT THIS LOCATION.

Wetlands in the National Wetlands Inventory

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 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.

This location overlaps the following wetlands:

ESTUARINE AND MARINE DEEPWATER

E1UBL

FRESHWATER EMERGENT WETLAND

PEM1Ad

FRESHWATER FORESTED/SHRUB WETLAND

PFO4Cd

PFO3Cd PFO4/SS3Ad PSS3/FO4Ad PFO4Ad

FRESHWATER POND

PUBHX

LAKE

L1UBHx

RMERINE

RSUBEX

R2UBH

R2UBHx

R4SBC

R\$UBH

A full description for each wetland code can be found at the lational Wetlands inventory website

Data limitations

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wedands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

Data exclusions

Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tuberfield worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

Data precautions

Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wedland areas should seek the advice of appropriate federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

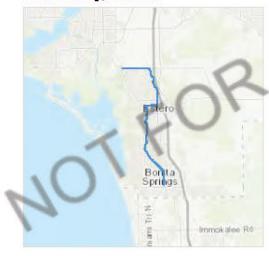
IPaC resource list

This report is an automatically generated list of species and other resources such as criticalabitat (collectively referred to as trust resources) under the U.S. Fish and Wildlife Service's (USFWS) jurisdiction that are known or expected to be on or near the project areaeferenced below. The list may also include trust resources that occur outside of the project area, but that could potentially be directly or indirectly affected by activities in the project area. However, determining the likelihood and extent of effects a project may have on trust resources typically requires gathering additional site-specific (e.g., vegetation/species surveys) andproject-specific (e.g., magnitude and timing of proposed activities) information.

Below is a summary of the project information you provided and contact information for the USFWS office(s) with jurisdiction in the defined project area. Please read the introduction to each section that follows (Endangered Species, Migratory Birds, USFWS Facilities, and NWI Wetlands) for additional information applicable to the trust resources addressed in that section. COMSU

Location

Lee County, Florida



Local office

South Florida Ecological Services Field Office

(772) 562-3909

1 (772) 562-4288

1339 20th Street

Vero Beach, FL 32960-3559

http://fws.gov/verobeach

Endangered species

This resource list is for informational purposes only and does not constitute an analysis of project level impacts.

The primary information used to generate this list is the known or expected range of each species. Additional areas of influence (AOI) for species are also considered. An AOI includes areas outside of the species range if the species could be indirectly affected by activities in that area (e.g., plading a dam upstream of a fish population even if that fish does not occur at the dam site, may indirectly impact the species by reducing or eliminating water flow downstream). Because species can move, and site conditions can change, the species on this list are not guaranteed to be found on or near the project area. To fully determine any potential effects to species, additional site-specific and project-specific information is often required.

Section 7 of the Endangered Species Act requires Federal agencies to "request of the Secretary Information whether any species which is listed or proposed to be listed may be present in the area of such proposed action" for any project that is conducted, permitted, funded, or licensed by any Federal agency. A letter from the local office and a species list which fulfills this requirement can only be obtained by requesting an official species list from either the Regulatory Review section in IPaC (see directions below) or from the local field office directly.

For project evaluations that require USFWS concurrence/review, please return to the IPaC website and request an official species list by doing the following:

- Draw the project location and dick CONTINUE.
- 2. Click DEFINE PROJECT.
- Log in (if directed to do so).
- Provide a name and description for your project.
- 5. Click REQUEST SPECIES LIST.

Listed species¹ and their critical habitats are managed by the cological Services Program of the U.S. Hish and Wildlife Service (USFWS) and the fisheries division of the National Oceanic and Atmospheric Administration (NOAA Fisheries³).

Species and critical habitats under the sole responsibility of NOAA Fisheries are not shown on this list. Please contact NOAA Fisheries for species under their jurisdiction.

- Species listed under the <u>Endangered Species Act</u> are threatened or endangered; IPaC also shows species that are candidates, or proposed, for listing. See the <u>listing status page</u> for more information. IPaC only shows species that are regulated by USFWS (see FAQ).
- 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.

The following species are potentially affected by activities in this location:

Mammals

NAME STATUS

Florida Borneted Bat Eumops floridanus

Wherever found

There is proposed critical habitat for this species. The location of the critical habitat is not available.

https://ecos.fws.gov/ecp/species/8630

Florida Panther Puma (=Felis) concolor corvi

Wherever found

No critical habitat has been designated for this species.

https://ecos.fws.gov/ecn/species/1763

Purna (-mountain Lion) Purna (=Felis) concolor (all subsp. except SAT coryl)

No critical habitat has been designated for this species.

https://ecos.fws.gov/ecp/species/6049

Birds

NAME

Everglade Snall Kite Rostrhamus sociabilis piumbeus

Wherever found

There is final critical habitat for this species. The location of the critical habitat is not available.

https://ecos.fws.gov/ecp/species/7713

Florida Scrub-Jay Aphelocoma coerulescens

Wherever found

No critical habitat has been designated for this species.

https://ecos.fws.gov/ecp/species/6174

Red Knot Calldris canutus rufa

Wherever found

There is proposed critical habitat for this species. The location of the critical habitat is not available.

https://ecos.fws.gov/ecp/species/1864

Red-cockaded Woodpecker Picoides borealis

Wherever found

No critical habitat has been designated for this species.

https://ecos.fws.gov/ecp/species/7614

Wood Stork Mycteria americana

No critical habitat has been designated for this species.

https://ecos.fws.gov/ecn/species/8477

Endangered

TION

Endangered

Endangered

Threatened

Threatened

Endangered

Threatened

Reptiles

11/10/21, 11:06 AM IPaC: Explore Locatba resist roes NAME STATUS American Alligator Alligator mississipplensis SAT Wherever found No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/spedes/776 American Crocodile Crocodylus acutus Threatened There is final critical habitat for this species. The location of the critical habitat is not available. https://ecos.fws.gov/eco/species/6604 Eastern Indigo Snake Drymarchon corais couper! Threatened Wherever found NON No critical habitat has been designated for this species. https://ecos.fws.gov/ecn/species/646 Kemp's Ridley Sea Turtle Lepidochelys kempil Endangered Wherever found There is proposed critical habitat for this species. The location of the critical habitat is not available. https://ecos.fws.gov/eco/species/5523 Loggerhead Sea Turtle Caretta caretta Threatened There is final critical habitat for this species. The location of the critical habitat is not available. https://ecos.fws.gov/ecp/spedes/1110 Fishes NAME STATUS Guif Sturgeon Adpenser oxyrinchus (=oxyrhynchus) desotol Threatened Wherever found There is final critical habitat for this species. The location of the critical habitat is not available. https://ecos.fws.gov/ecp/species/651 Insects NAME STATUS

Miami Blue Butterfly Cyclargus (=Hemiargus) thomasi. Endangered bethune bakerl Wherever found No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/spedes/3797

Monarch Butterfly Danaus plexippus

Wherever found

No critical habitat has been designated for this species.

https://ecos.fws.gov/ecn/species/9743

Candidate

Flowering Plants

NAME STATUS

Aboriginal Priddy-apple Harrisla (=Cereus) aboriginum (=gradiis)

Endangered

Wherever found

There is final critical habitat for this species. The location of the critical habitat is not available.

https://ecos.fws.gov/ecp/species/2833

Beautiful Pawpaw Deeringothamnus pulchellus

Endangered ON

Wherever found

No critical habitat has been designated for this species.

https://ecos.fws.gov/ecn/species/4069

Critical habitats

Potential effects to critical habitat(s) in this location must be analyzed along with the endangered species themselves.

This location overlaps the critical habitat for the following species:

NAME TYPE

West Indian Manatee Trichechus manatus

Final

For information on why this critical habitat appears for your project, even though West Indian Manatee is not on the list of potentially affected species at this location, contact the local field office.

https://ecos.fws.gov/eco/species/4469@crkhab

Migratory birds

Certain birds are protected under the Migratory Bird Treaty Act and the Baid and Golden Eagle.

Protection Act.

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats should follow appropriate regulations and consider implementing appropriate conservation measures, as described to be a second to be a second

- The Migratory Birds Treaty Act of 1918.
- The Baid and Golden Eagle Protection Act of 1940.

Additional information can be found using the following links:

- Birds of Conservation Concernitio://www.fws.gov/birds/management/managed-species/ birds-of-conservation-concern.php
- Measures for avoiding and minimizing impacts to birds http://www.fws.gov/birds/management/project-assessment-tools-and-guidance/ conservation-measures.php
- Nationwide conservation measures for birds http://www.fws.gov/migratorvbirds/bdf/management/nationwidestandardconservationmeasures.p

The birds listed below are birds of particular concern either because they occur on this FWS Birds of Conservation Concern (BCC) list or warrant special attention in your project location. To learn more about the levels of concern for birds on your list and how this list is generated, see the FAQ below. This is not a list of every bird you may find in this location, nor a guarantee that every bird on this list will be found in your project area. To see exact locations of where birders and the general public have sighted birds in and around your project area, visit the bird data mapping tool (Tip: enter your location, desired date range and a species on your list). For projects that occur off the Attantic Coast, additional maps and models detailing the relative occurrence and abundance of bird species on your list are available. Links to additional information about Atlantic Coast birds, and other important information about your migratory bird list, including how to properly interpret and use your migratory bird report, can be foundbelow.

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

NAME

BREEDING SEASON (IF A BREEDING SEASON IS INDICATED FOR A BIRD ON YOUR LIST, THE BIRD MAY BREED IN YOUR. PROJECT AREA SOMETIME WITHIN THE TIMEFRAME SPECIFIED, WHICH IS A VERY LIBERAL ESTIMATE OF THE DATES INSIDE WHICH THE BIRD BREEDS ACROSS ITS ENTIRE RANGE, "BREEDS ELSEWHERE" INDICATES THAT THE BIRD DOES NOT LIKELY BREED IN YOUR PROJECT AREA)

American Kestrel Falco sparverius paulus This is a Bird of Conservation Concern (BCC) only in particular Bird. Conservation Regions (BCRs) in the continental USA https://ecos.fws.gov/eco/species/9587

Breeds Apr 1 to Aug 31

American Oystercatcher Haematopus palliatus

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

https://ecos.fws.gov/ecn/species/8935

Breeds Apr 15 to Aug 31

Baid Eagle Hallacetus leucocephalus

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/eco/species/1626

BreedsSep 1 to Jul 31

Black Skimmer Rynchops niger

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

https://ecos.fws.gov/ecn/species/5234

Breeds May 20 to Sep 15

Great Blue Heron Ardea herodias occidentalis

This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA Breeds Jan 1 to Dec 31

Gull-billed Tern Gelocheildon nilotica

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

King Rail Railus elegans

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

https://ecos.fws.gov/ecn/species/8936

Breeds May 1 to Sep 5

Lesser Yellowlegs Tringa flavipes

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

https://ecos.fws.gov/ecp/species/9679

Breeds elsewhere

Magnificent Frigatebird Fregata magnificens

This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA

Mangrove Cuckoo Coccyzus minor

BreedsOct 1 to Apr 30

This is a Bird of Conservation Concern (BCC) only in particular Bird

Conservation Regions (BCRs) in the continental USA

Breeds Apr 20 to Aug 20

Prairie Warbier Dendroica discolor

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Breeds May 1 to Jul 31

Red-headed Woodpecker Melanerpes erythrocephalus

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Breeds May 10 to Sep 10

Reddish Egret Egretta rufescens

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

https://ecos.fws.gov/ecp/species/7617

Breeds Mar 1 to Sep 15

Ruddy Turnstone Arenaria interpres morinella

This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA Breeds elsewhere

Short-billed Dowltcher Limnodromus griseus

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

https://ecos.fws.gov/ecp/species/9480

Breeds elsewhere

Swallow-tailed Kite Elanoides forficatus

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

https://ecos.fws.gov/ecn/species/8938

Breeds Mar 10 to Jun 30

Willet Tringa semipalmata

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Breeds Apr 20 to Aug 5

Wilson's Ployer Charadrius wilsonia

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Breeds Apr 1 to Aug 20

Probability of Presence Summary

The graphs below provide our best understanding of when birds of concern annost 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 and understand the FAQ "Proper interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

Probability of Presence(**)

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12.4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

- 1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.
- 2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is 0.25/0.25 = 1; at week 20 it is 0.05/0.25 = 0.2.
- The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, indusive. This is the probability of presence score.

To see a bar's probability of presence score, simply hover your mouse cursor over the bar.

Breeding Season in

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

Survey Effort (1)

Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range for example, 33 to 64 surveys.

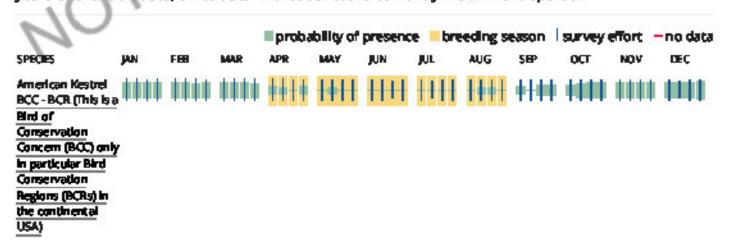
To see a bar's survey effort range, simply hover your mouse cursor over the bar.

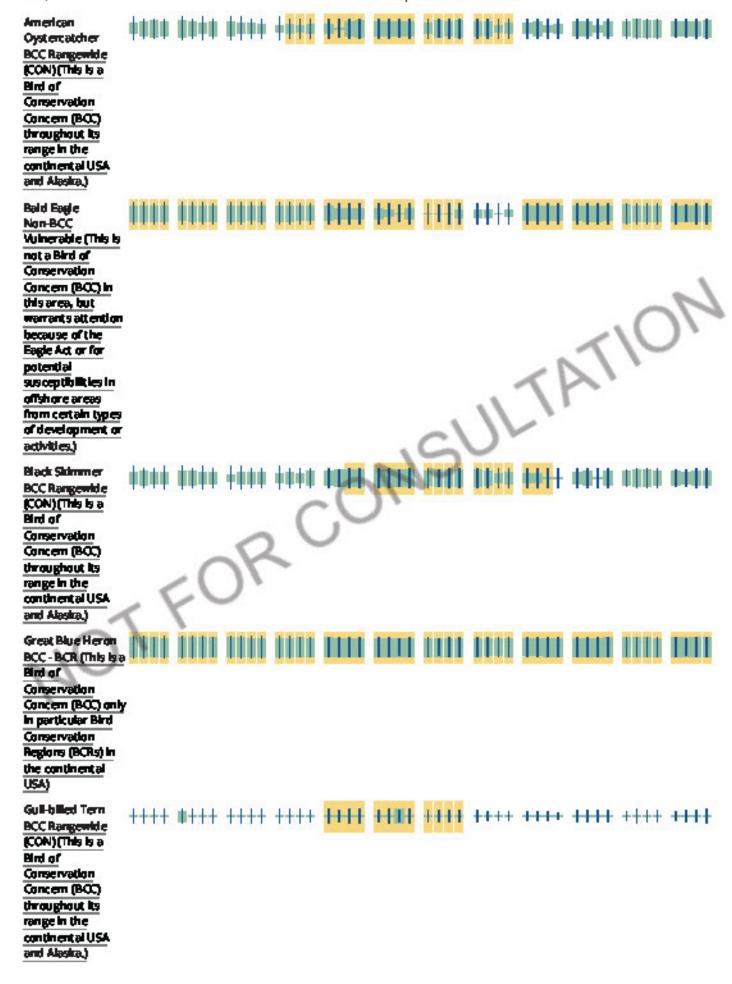
No Data (-)

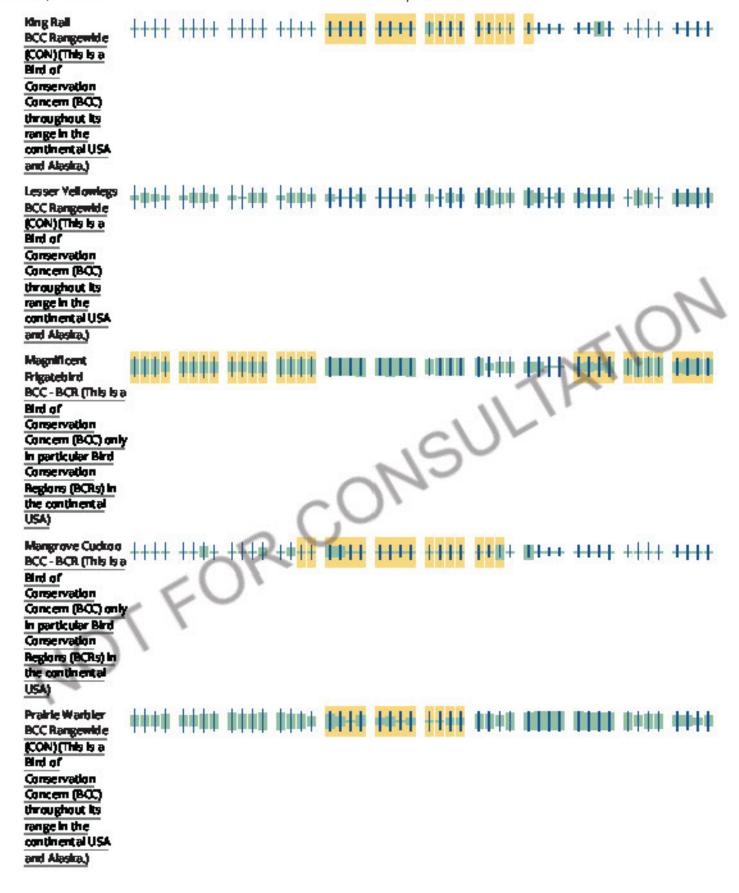
A week is marked as having no data if there were no survey events for that week.

Survey Timeframe

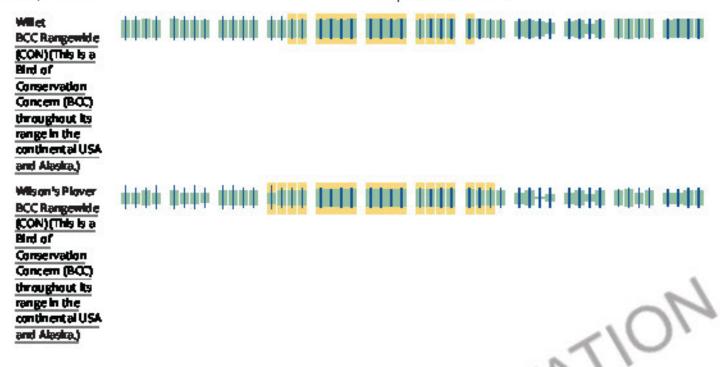
Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of availabledata, since data in these areas is currently much more sparse.











Tell me more about conservation measures I can implement to avoid or minimize impacts to migratory birds.

Nationwide Conservation Measures describes measures that can help avoid and minimize impacts to all birds at any location year round, implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds maybe breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure. To see when birds are most likely to occur and be breeding in your projectarea, view the Probability of Presence Summary Additional measures or parmits may be advisabled epending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

What does IPaC use to generate the migratory birds potentially occurring in my specified location?

The Migratory Bird Resource List is comprised of USPWS<u>linds of Conservation Concern (BCC)</u>and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by thiwian Knowledge Network (AKN). The AKN data is based on a growing collection obuvey, banding, and citizen science dataset and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle Eagle-Act* requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area, it is representative of all birds that may occur in your project area. To get a list of all birds potentially present your project area, please visit the AION Phenology Tool.

What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?

The probability of presence graphs associated with your migratory bird list are based on data provided by the <u>Avian Knowledge Network (AKN)</u>. This data is derived from a growing collection of <u>survey</u>, <u>banding</u>, and <u>citizen</u> science datasets.

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

How do I know if a bird is breeding, wintering, migrating or present year-round in my project area?

To see what part of a particular bird's range your project area falls within (i.e. breeding wintering migrating year-round), you may refer to the following resources the Cornell Lab of Ornithology All About Birds Bird Guideor (if you are unsuccessful in locating the bird of interest there), the Cornell Lab of Ornithology Neotropical Birds guide, if a bird on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. Breeds elsewhere is indicated, then the bird likely does not breed in your project area.

What are the levels of concern for migratory birds?

Migratory birds delivered through IPaC fall into the following distinct categories of concern;

- "BCC Rangewide" birds are Birds of Conservation Concern (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
- "BCC BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
- "Non-BCC Vulnerable" birds are not BCC species in your project area, but appear on your list either because
 of the <u>Fagie Act</u> requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from
 certain types of development or activities (e.g., offshore energy development or longline fishing).

Although it is important to try to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially eagles and BCC species of rangewide concernor more information on conservation measures you can implement to help avoid and minimize migratory bird impacts and requirements for eagles, please see the FAQs for these topics.

Details about birds that are potentially affected by offshore projects

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit this ortheast Ocean Data Portal. The Portal also offers data and information about other taxa besides birds that may be helpful to you in your oject review. Alternately, you may download the bird model results files underlying the portal maps through this OAA NCCOS integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelfproject webpage.

Bird tracking data can also provide additional details about occurrence and habitat use throughout the year, including migration. Models relying on survey data may not include this information For additional information on marine bird tracking data, see the <u>Diving Bird Study</u> and the <u>nanotag studies</u> or contact <u>Caleb Spiegel</u> or <u>Pam Loring</u>.

What If I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need t<u>obtain a permit</u> to avoid violating the Eagle Act should such impacts occur,

Proper Interpretation and Use of Your Migratory Bird Report

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds pilority concern. To learn more about how your list is generated, and see options for identifying what other birdsay be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentialtycouring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey effort (indicated by the black vertical bar) and for the existence of this odata" indicator (a red horizontal bar). A high survey effort is the key component, if the survey effort is highten the probability of presence score can be viewed as more dependable, in contrast, a low survey effort bar or miata bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list is notifiect, it is simply a

starting point for identifying what birds of concern have the potential to be in youproject area, when they might be there, and if they might be breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation easures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.

Facilities

National Wildlife Refuge lands

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. NSULTA

THERE ARE NO REFUGE LANDS AT THIS LOCATION.

Fish hatcheries

THERE ARE NO FISH HATCHERIES AT THIS LOCATION.

Wetlands in the National Wetlands Inventory

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 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.

This location overlaps the following wetlands:

ESTUARINE AND MARINE DEEPWATER

E1UBL

FRESHWATER EMERGENT WETLAND

PEM1Ad PEM1Fd

FRESHWATER FORESTED/SHRUB WETLAND

ULTATION

PFO4/3Cd PFO4Cd PFO4/SS3Ad PF03/1A PFO4/2Cd PFO4Ad PFO2/4Cd PFO4/3Ad **PFO3Ad** FRESHWATER POND **PUBHX** LAKE L1UBHx RMERINE R5UBFx R2UBH

A full description for each wetland code can be found at the National Wetlands inventory website

Data limitations

R2UBHX R4SBC R1UBV R5UBH

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wedands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

Data exclusions

Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tuberfield worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

Data precautions

Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

