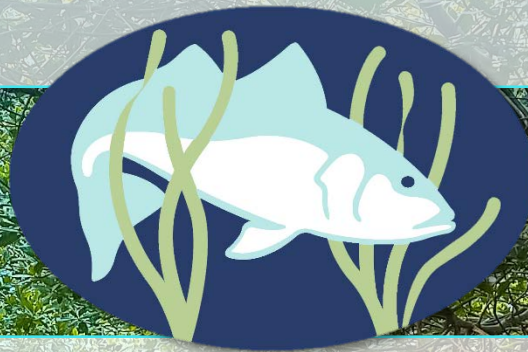


Atlantic Coastal Fish Habitat Partnership Update to the NFHP Board



National Fish Habitat
Partnership Board Meeting

March 20, 2019

Arlington, VA

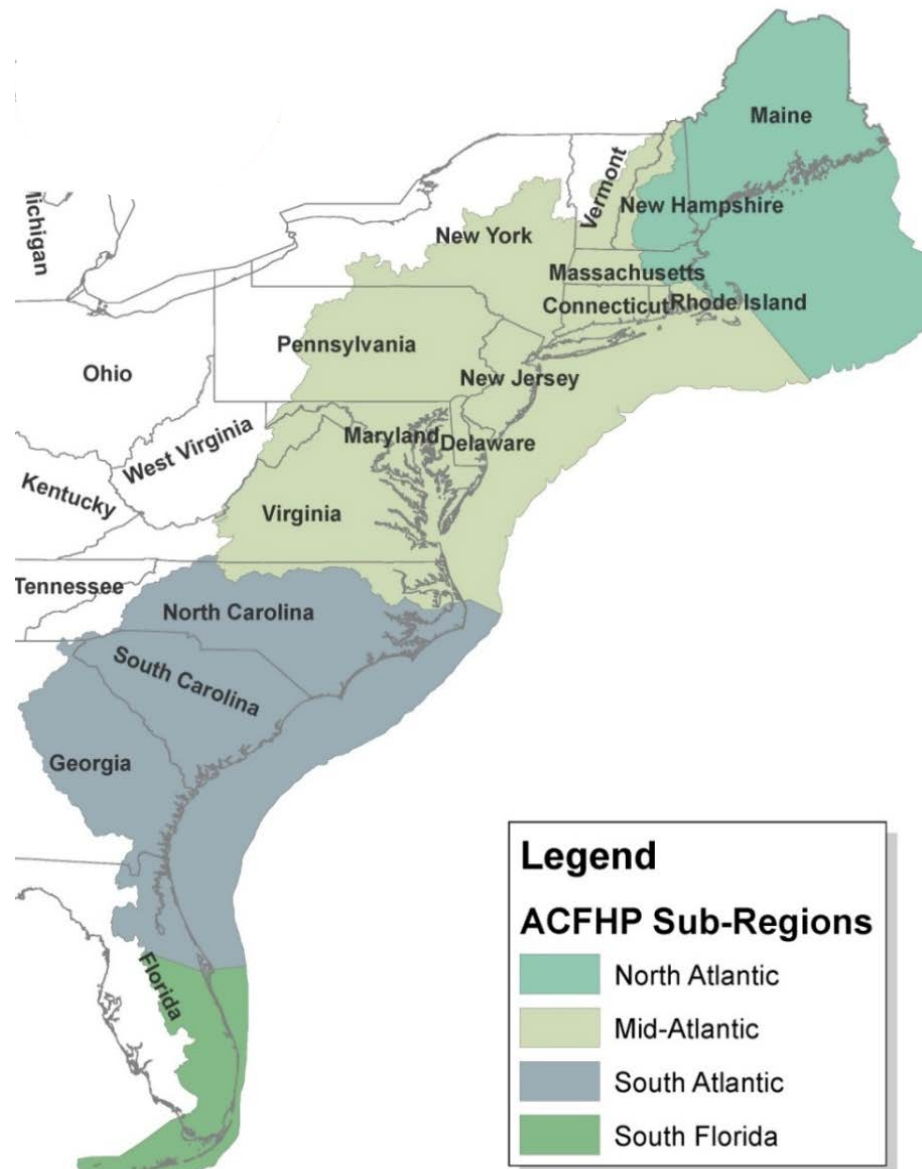
A Quick Background...



Atlantic Coastal Fish Habitat Partnership

Mission

To accelerate the conservation, protection, restoration, and enhancement of habitat for native Atlantic coastal, estuarine-dependent, and diadromous fishes through partnerships between federal, tribal, state, local, and other entities



A Quick Background...



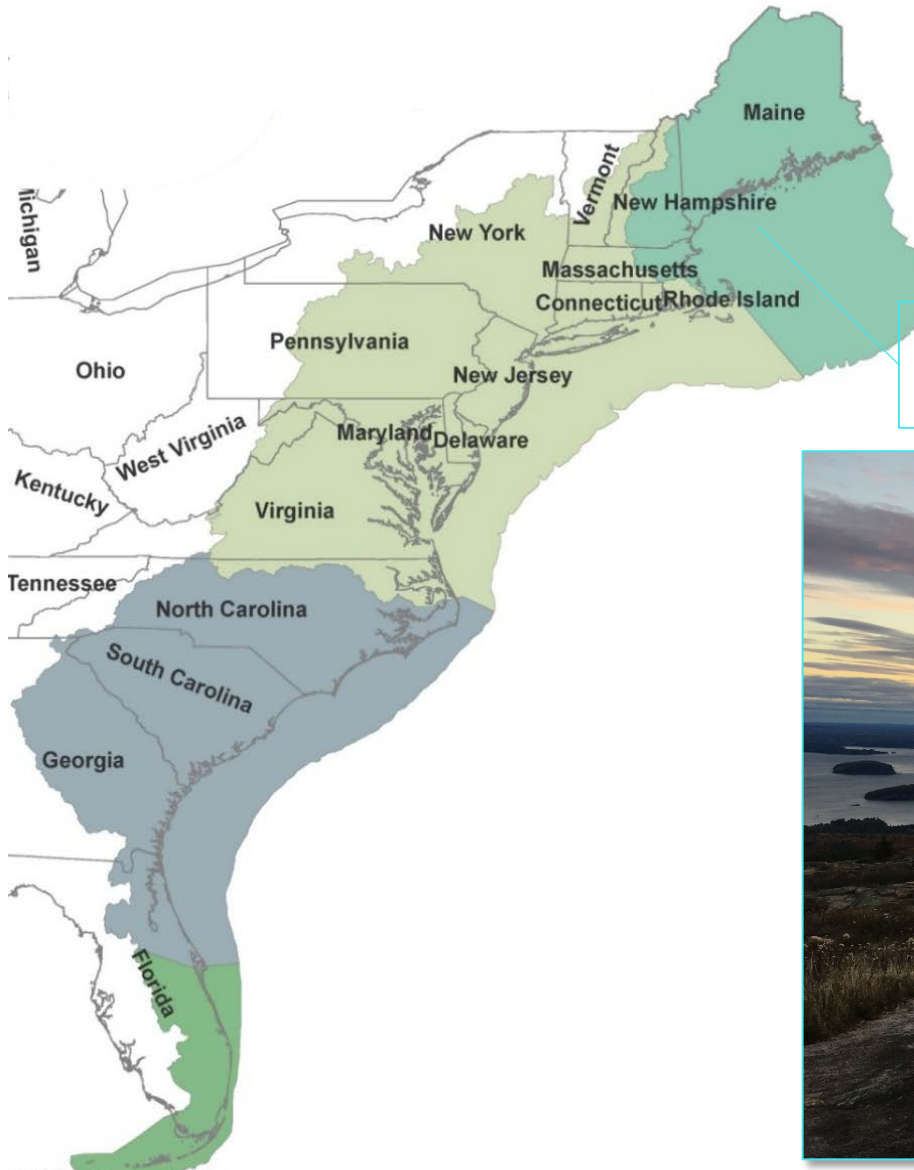
over 25% of the U.S. population

9 of the 10 most densely populated states

cold temperate to tropical Atlantic waters

4 national marine sanctuaries and 1 national monument

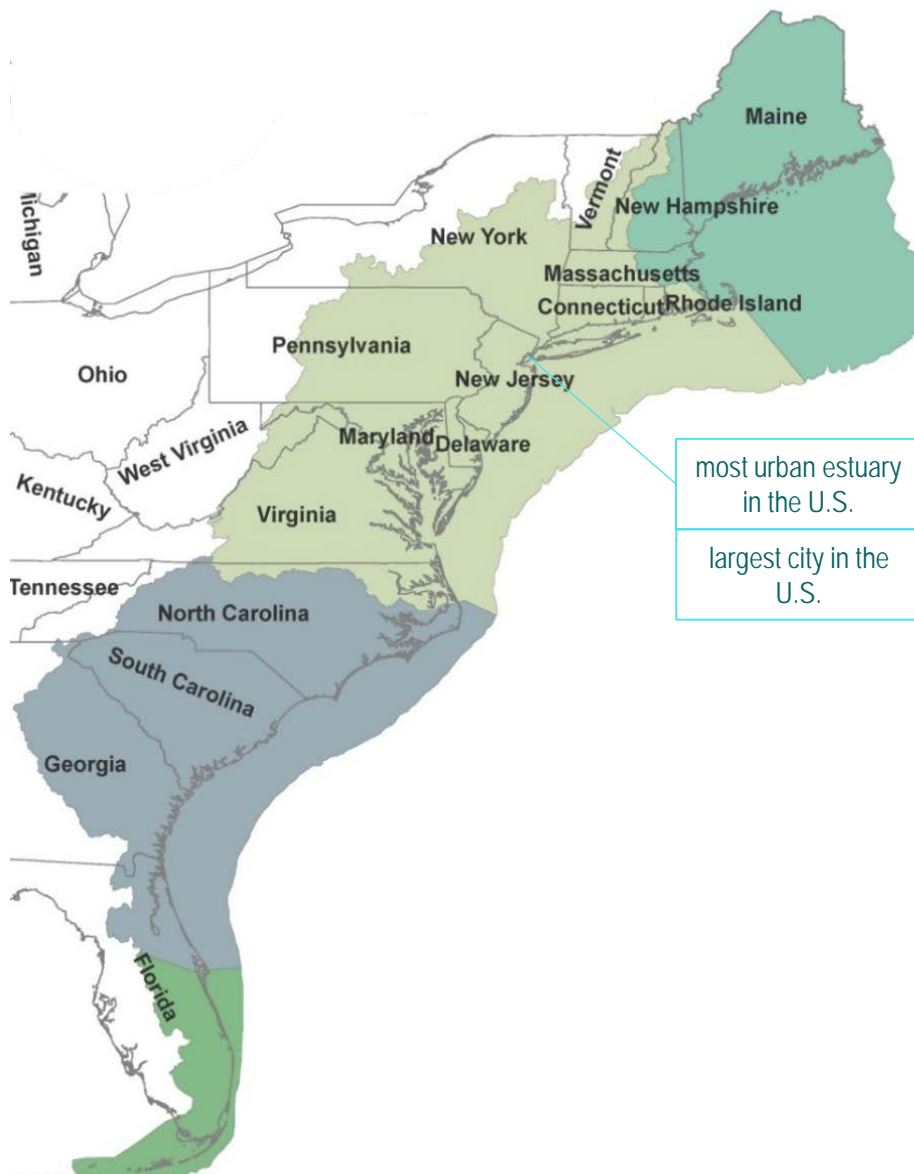
A Quick Background...



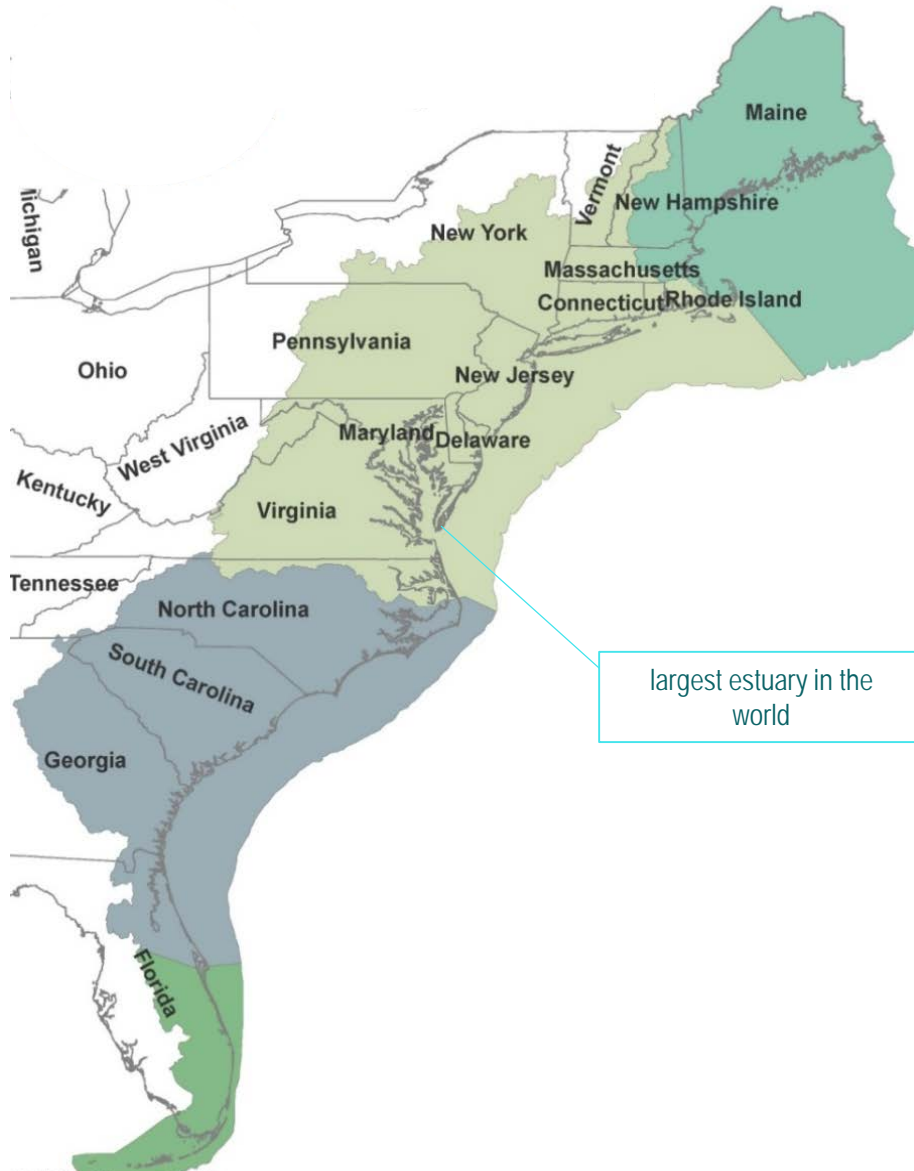
one of the most rapidly warming areas on the planet



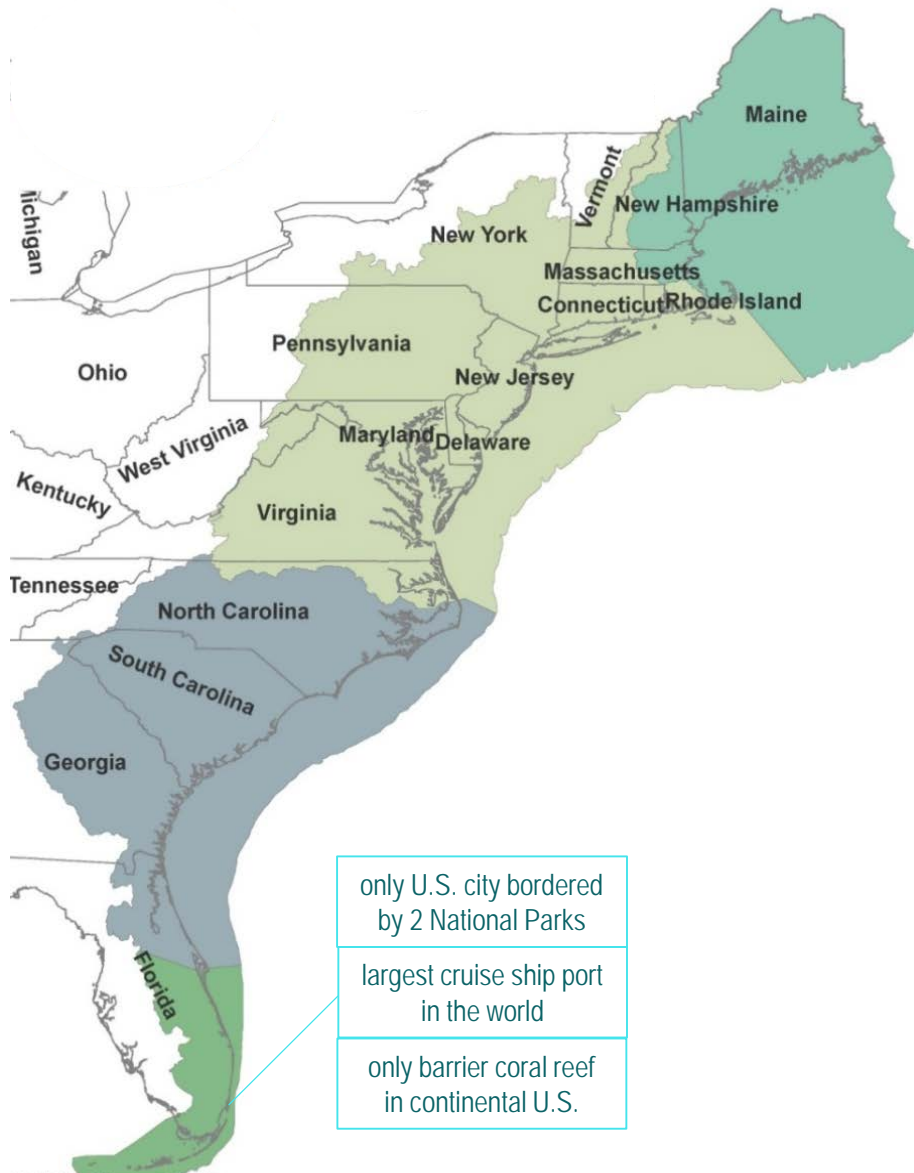
A Quick Background...



A Quick Background...



A Quick Background...



A Quick Background...



Making the Connection

From the headwaters to
the continental shelf

Between fish
and people

Among partners



Our Partners



Priority Habitats



North Atlantic

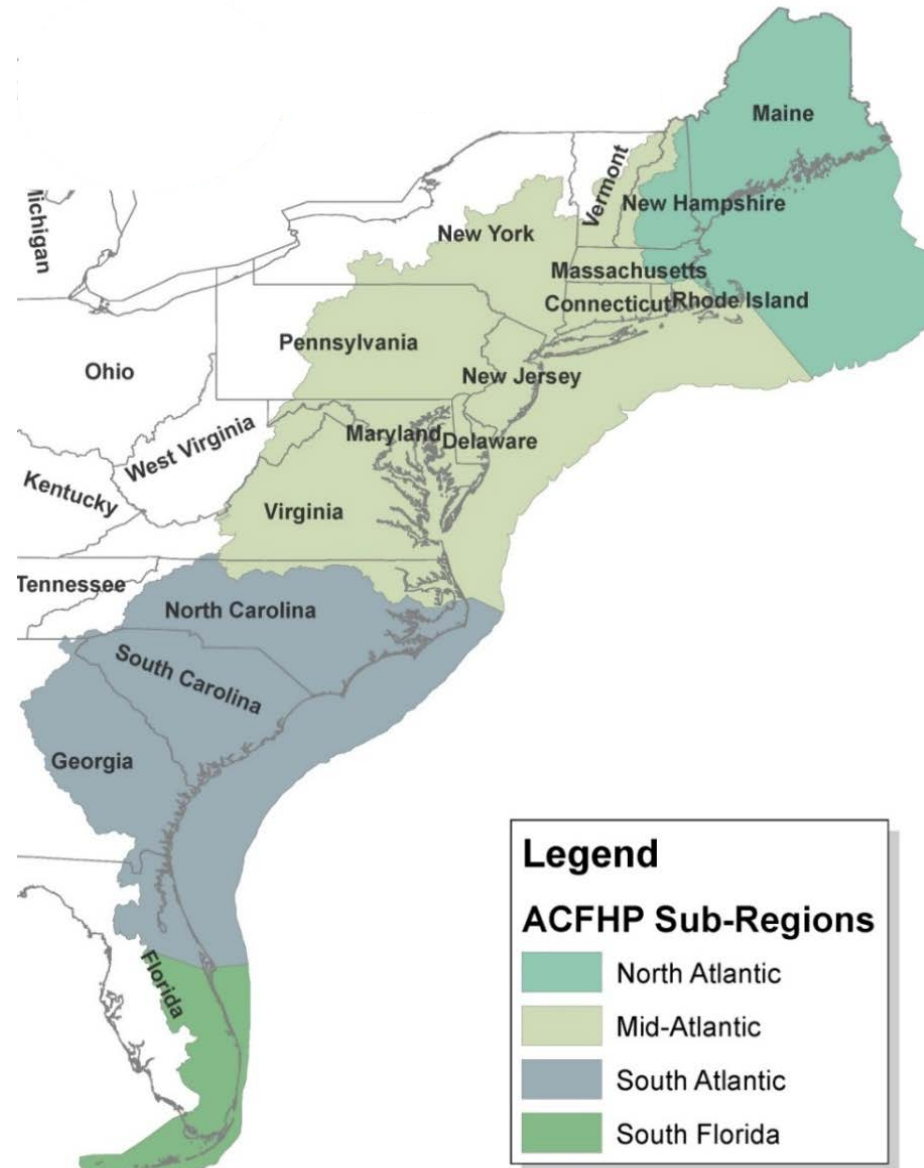
- Riverine bottom
- Shellfish beds
- SAV

Mid- & South Atlantic

- Riverine bottom
- Shellfish beds
- SAV
- Tidal vegetation

South Florida

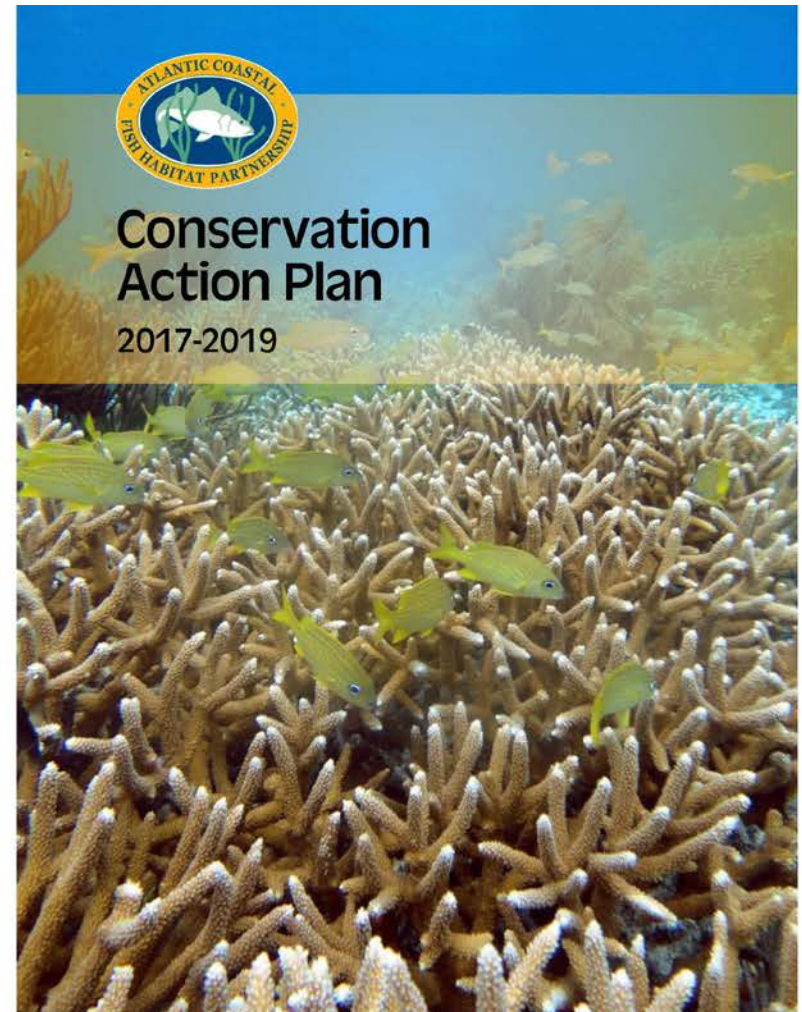
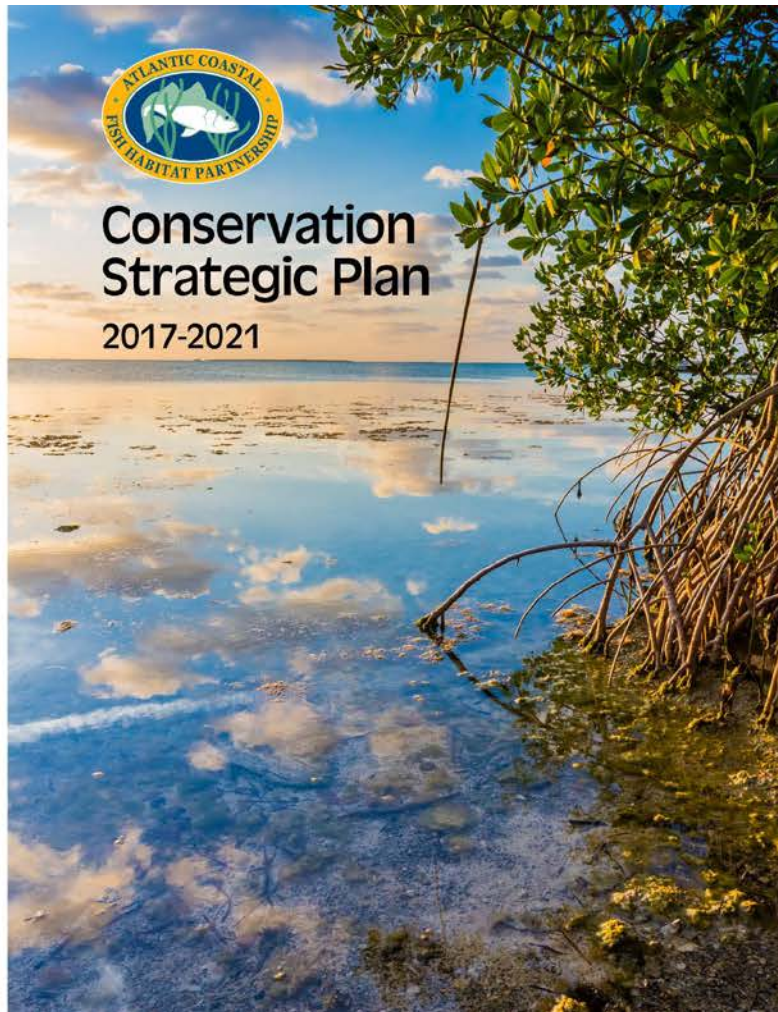
- SAV
- Tidal vegetation
- Coral and live/hard bottom



Guidance Documents

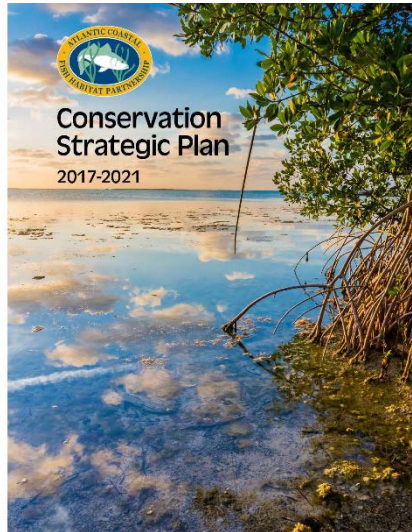


Guiding Documents





Conservation Strategic Plan



Background information

Habitats

Habitat Threats

Conservation Objectives

Science & Data Objectives

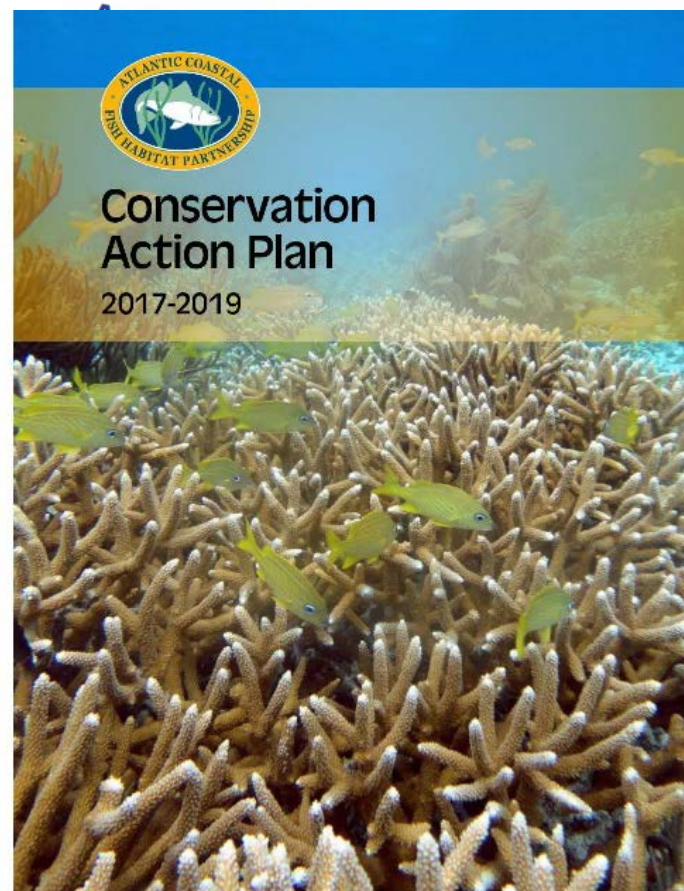
Outreach & Comm Objectives

Finance Objectives



Conservation Action Plan

- Objectives
- Strategies
- Actions



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to remove barriers in areas identified as a
assage restoration by an ACFHP partner.

Outreach and Communication



Melissa Laser Fish Habitat Conservation Award



- 2018 – Eric Anderson, Palm Beach County Department of Environmental Resources Management
- 2017 – Jeff Beal, FL Fish and Wildlife Conservation Commission
- 2016 – Bonnie Bick and Jim Long, Mattawoman Watershed Society
- 2015 – Deb Wilson, Nobleboro, ME Fish Habitat Activist



Outreach and Communication



The Usual Suspects

- Facebook posts
- Newsletters
 - ~9 – 12 per year via email
 - ASMFC's *Habitat Hotline Atlantic*
 - Coastal FHP newsletters



Outreach and Communication



The Usual Suspects

- Conferences
 - American Fisheries Society
 - Restore America's Estuaries/The Coastal Society Summits
 - New England Saltwater Fishing Show
- Meetings
 - ASMFC Policy Board/Habitat Committee/Artificial Reefs Committee
 - Chesapeake Bay River Herring Workshops
 - Chesapeake Bay Program GIT
 - South Atlantic Council Habitat AP

Outreach and Communication



New Website

ATLANTIC COASTAL WILDLIFE CONSERVATION FUND

SEARCH

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MAKING THE CONNECTION

Enhancing, preserving, and protecting Atlantic diadromous estuarine and coastal fish habitats

MAKING THE CONNECTION

Connecting the headwaters to the continental shelf

Connecting people with fish habitat

Connecting partners

PRIORITY HABITATS

Submerged Aquatic Vegetation

Shoreline Bottom

Tidal Vegetation

Grass and Low-Tidal Bottom

Native and Exotic Shellfish Beds

RECENT NEWS

The latest news and events

Spring 2018 Issue of the Coastal Fish Habitat Partnership Newsletter

Winter 2017 Issue of the Coastal Fish Habitat Partnership Newsletter

Jeff East Becomes 2017 Melissa Lauer Fish Habitat Conservation Award

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SIGN UP

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ASSOCIATION of FISH & WILDLIFE AGENCIES

MID-ATLANTIC COASTAL WILDLIFE CONSERVATION FUND

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EPA

U.S. FISH AND WILDLIFE SERVICE

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CONTACT

Phone: 540-880-0500

Email: info@midatlantic.org

Address: 1000 W. Commonwealth Blvd. 4th Fl. Arlington, VA 22201

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ABOUT US

The Atlantic Coastal Fish Habitat Partnership (ACFHP) is a coastwide partnership of fish habitat resource managers, scientists, and communications professionals from 33 different state, federal, tribal and non-governmental agencies who have established a commitment to work together for the benefit of aquatic resources.

ACFHP PRIORITY HABITATS BY SUBREGION

North Atlantic

- Riverine Bottom
- Submerged Aquatic Vegetation
- Marine and Estuarine Shellfish Beds

Mid-Atlantic

- Riverine Bottom
- Submerged Aquatic Vegetation
- Marine and Estuarine Shellfish Beds
- Tidal Vegetation

South Atlantic

- Riverine Bottom
- Submerged Aquatic Vegetation
- Marine and Estuarine Shellfish Beds
- Tidal Vegetation

South Florida

- Submerged Aquatic Vegetation
- Coral and Live/Hardbottom
- Tidal Vegetation (mangrove)

[Mission and Vision](#)

[The ACFHP Region](#)

[Our Team](#)

[Guidance Documents](#)

[The National Fish Habitat Partnership](#)



Outreach and Communication



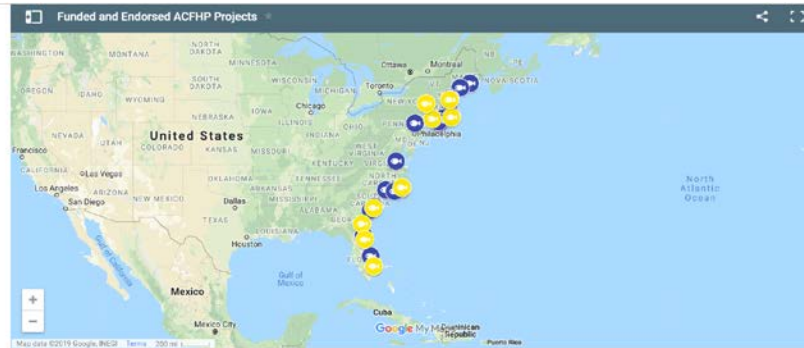
ATLANTIC COASTAL FISH HABITAT PARTNERSHIP

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On the Ground Projects



- Partners We've Funded**
- The Nature Conservancy
 - NY Department of Environmental Conservation
 - East Carolina University
 - Atlantic Salmon Federation
 - North Carolina Coastal Federation
 - Town of Surry, Maine
 - Cape Fear River Watch
 - University of North Florida
 - Cornell Cooperative Extension
 - MA Division of Marine Fisheries
 - James River Association
 - Marine Resources Council
 - SC Department of Natural Resources
 - Great Works Regional Land Trust



Outreach and Communication



ON THE GROUND PROJECTS

Click on a fish to learn more about a particular conservation project. Purple icons represent ACFHP-funded projects, and yellow icons represent projects endorsed by ACFHP.

The screenshot shows a mobile application interface. At the top, a red navigation bar contains a back arrow, the text "The Columbia Dam Removal", a location pin icon, and the word "Projects" with a star. Below the navigation bar is a sidebar with the following information:

- name: The Columbia Dam Removal
- description: <http://www.atlanticfishhabitat.org/project/the-columbia-dam-removal-new-jersey/>

The main area of the screen is a map of the Eastern United States, showing states from Maine down to Georgia. The map is populated with fish icons representing project locations. A green arrow points to a purple fish icon located in New Jersey, near Philadelphia. Other purple icons are visible in New York, Massachusetts, and Virginia. Yellow icons are scattered across New York, Pennsylvania, North Carolina, and South Carolina. The map includes labels for major cities like Montreal, Toronto, Chicago, Detroit, Philadelphia, and Washington, and state names like MICHIGAN, NEW YORK, PENNSYLVANIA, and VIRGINIA. The Google My Maps logo is visible at the bottom of the map area.

Outreach and Communication



ON THE GROUND PROJECTS

Click on a fish to learn more about a particular conservation project. Purple icons represent ACFHP-funded projects, and yellow icons represent projects endorsed by ACFHP.

The screenshot shows a web application interface. At the top, a red navigation bar contains a back arrow, the text "The Columbia Dam Removal", and a "Projects" tab. Below this, a sidebar on the left displays project details:

- name: The Columbia Dam Removal
- description: <http://www.atlanticfishhabitat.org/project/the-columbia-dam-removal-new-jersey/>

A green arrow points from the URL in the description to a fish icon on the map. The map shows the United States with various fish icons: purple icons representing ACFHP-funded projects and yellow icons representing projects endorsed by ACFHP. The map includes labels for states and cities, and a "Google My Maps" logo at the bottom.

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THE COLUMBIA DAM REMOVAL, NEW JERSEY



[click photo to view photo gallery](#)

Knowlton Township, New Jersey

Funded in FY2018 through the National Fish Habitat Action Plan.

The Nature Conservancy is working with partners to remove the Columbia Dam on the Paulins Kill. This project will open approximately 20 miles of streams to migratory fish, including American shad, river herring, sea lamprey, and American eel. It will also improve in-stream habitat for resident fishes and macroinvertebrates, and improve water quality in the former impoundment. The Columbia Dam is located less than 0.25 miles upstream of the confluence with the Delaware River, and is currently a complete barrier to fish passage.

[Columbia Dam Removal Factsheet](#)

[NJ Department of Environmental Protection Columbia Dam Removal factsheet](#)

Text and photos provided by The Nature Conservancy.

PRESS ARTICLES

- 👁 [Princeton Hydro summer 2018 article](#)
- 👁 [Princeton Hydro summer 2018 article #2](#)
- 👁 [New Jersey Herald winter 2018 article](#)
- 👁 [WFMZ 69 News summer 2018 article](#)
- 👁 [New Jersey DEP summer 2018 press release](#)

Outreach and Communication



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GET INVOLVED

There are a variety of ways to help us achieve our mission. If you're interested in conserving fish habitat along the Atlantic coast, see below for ways you can make a difference!

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[Funding Opportunities](#)

[Project Endorsement](#)

[Melissa Laser Fish Habitat Conservation Award](#)

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DONATE

DIRECTLY TO ACFHP VIA BEYOND THE POND

You can donate to the Atlantic Coastal Fish Habitat Partnership's general fund by clicking [here](#) and selecting 'Atlantic Coastal Fish Habitat Partnership' from the drop down menu under 'Please Select a Cause.' Alternatively, you can visit www.beyondthepondusa.com and click the 'Donate Now' button at the top of the page to take you to the drop down menu (be sure to select 'Atlantic Coastal Fish Habitat Partnership').

If there's a particular project that you're interested in supporting, contact us at LHavel@asmfc.org



TO OUR NATIONAL CAUSE VIA AMAZONSMILE

Looking for another way to support the conservation of fish habitat in the ACFHP region and nationwide? Your purchases through online retailer Amazon can benefit ACFHP and the rest of the Fish Habitat Partnerships through the National Fish Habitat Fund ([Beyond the Pond](#)).

To shop and contribute, you can visit <http://smile.amazon.com> and select the National Fish Habitat Fund from the charity list, or click this link directly: <http://smile.amazon.com/ch/47-2547128>



THROUGH OUR COLLABORATION WITH REPYOURWATER

ACFHP and the Eastern Brook Trout Joint Venture have teamed up with RepYourWater to support fish habitat conservation in freshwater and offshore fish habitats on the east coast. Purchase any of the select merchandise [here](#), and a portion of the proceeds will go directly to our two Fish Habitat Partnerships. Got photos in your gear? Be sure to tag #atlanticfhp and #repyourwater on social media!



Your donation will not only benefit a great number of species and their habitats, but a large population of human users as well. If you enjoy fishing, kayaking, or watching wildlife and want to be a part of aquatic habitat solutions, then help ACFHP maintain healthy fish habitat and make the connection – from headwater streams out to the Atlantic Ocean, between people and the environment, and among our partners and supporters.

[SHOP SELECT MERCHANDISE](#)

CONTACT

Phone: (703) 842-0740
Email: LHavel@asmfc.org
Address: 1050 N. Highland St.
Suite 200 A-N
Arlington, VA 22201

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[Meetings](#)

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NEW YEAR CLEARANCE!

Atlantic Coastal FHP and Brook Trout Joint Venture

SORT BY

A-Z



Connecticut Brookie Hat - \$27.00



Connecticut Striper Hat - \$27.00



DC Striper Hat - \$27.00



Georgia Cold Water Everyday Belt - \$30.00



Georgia Coldwater 2.0 Hat - \$27.00



Georgia Coldwater 2.0 Sticker - \$5.00



Georgia Hat - \$27.00



Georgia Trout 2.0 Hat - \$27.00



Live Free or Die Brookie Hat - \$27.00



Maine Brookie Hat - \$27.00



Maine Hat - \$27.00



Massachusetts Hat - \$27.00



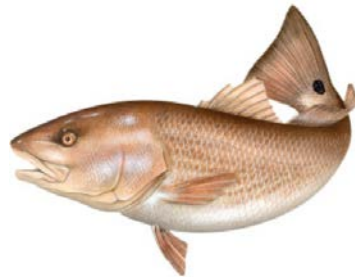


Species-Habitat Matrix Tool

- A tool for evaluating the relative importance of a specific habitat type to a given life history stage for an individual species
- Assess importance of habitat in terms of:
 - Shelter
 - Direct trophic links
 - Spawning
 - Nurseries



- 131 different species across four regions
 - All ASMFC-managed species
 - All Council-managed species
 - All other native diadromous species
 - Select state-managed and unmanaged species
 - Not included: bivalves and species without a marine or estuarine life stage





- Life stages

- Eggs – Larvae
- Juvenile/Young of Year (YOY)
- Adults
- Spawning Adults
 - Only if fundamentally different from adult, non-spawning habitat



Habitats

- Marine & estuarine shellfish beds
 - oyster aggregations/reef
 - Dead shell accumulations
 - Scallop beds
 - Hard clam beds





Habitats

- Coral and live/hard bottom
 - Coral reefs
 - Patch reef, soft corals, or anemone
 - Live rock





Habitats

- Macroalgae
 - *Fucus* spp.
 - *Laminaria* spp.
 - *Ulva lactuca*





Habitats

- Submerged aquatic vegetation
 - Tidal fresh & oligohaline spp.
 - Mesohaline & polyhaline spp.





Habitats

- Tidal vegetation
 - Estuarine emergent marsh
 - Tidal freshwater marsh
 - Mangrove





Habitats

- Unvegetated coastal bottom
 - Loose fine bottom
 - Loose coarse bottom
 - Firm hard bottom
 - Structured sand habitat



Habitats

- Riverine bottom
 - Higher gradient headwater tributaries
 - Lower gradient tributaries
 - Higher gradient large mainstem rivers
 - Lower gradient large mainstem rivers
 - Low order coastal streams
 - Non-tidal freshwater mussel beds
 - Coastal headwater ponds
 - Non-tidal freshwater marsh





Scoring and analysis

Ranks:

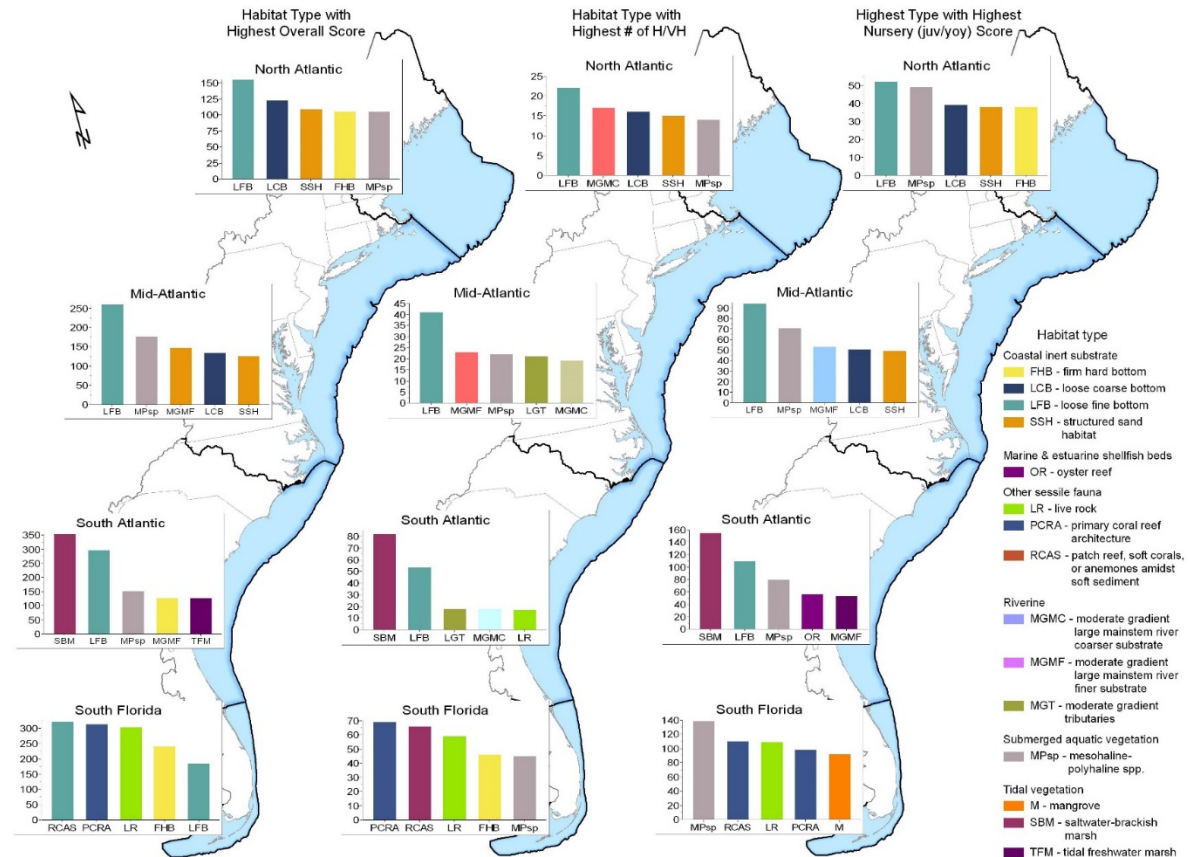
- Very high (4): essential contributor
- High (3.5): primary habitat
- Moderate (2): 1 of many habitats used
- Low (1): used incidentally
- Unknown (to science)
- Blank: not present

		American Shad			
Habitat Category	Habitat Type	Eggs/Larvae	Juveniles	Adults	Spawning Adults
Shellfish Beds	Oyster reef	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Scallop Beds	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Hard shell clam beds	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Coral reefs	Scleratinian corals	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Soft corals and anemones	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Macroalgae	Fucus, Laminaria, Ulva lactuca mats	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Submerged Aquatic Vegetation (SAV)	Tidal fresh & Oligohaline spp.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Mesohaline-Polyhaline spp.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>




Publication

- *BioScience* April 2016
- Kritzer et al.





Online Query Database



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SPECIES-HABITAT MATRIX

The Species-Habitat Matrix is a conservation planning tool to evaluate the relative importance of various coastal, estuarine, and freshwater habitats in terms of their value to a number of selected fish and invertebrate species. Specifically, the Matrix evaluates the importance of different habitat types as shelter, nursery, feeding, or spawning areas for each species. The goal is to provide an index of habitat value through this one lens.

The Matrix is limited in that it does not consider other important functions, beyond the ones listed above, of habitat that also benefit species. Filtering water, processing nutrients, securing sediments, maintaining dissolved oxygen levels, and other ecosystem functions are critical for fishes and invertebrates, but are not considered in the analysis in order to keep the matrix and analyses simple and manageable.

Please refer to the [Species-Habitat Matrix Report](#) for important information on how the data were gathered, how to interpret results, and qualifiers and exclusions.

DOWNLOAD RESULTS TO CSV
DOWNLOAD ALL TO CSV

Species	Region	Habitat Category	Habitat Type	Life Stage	Rank	Numeric Rank
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
Alewife	Mid Atlantic	Coastal Inert Substrates	Firm Hard Bottom (boulders to embed)	Juvenile & Young-of-Year	Medium	2.00
Alewife	Mid Atlantic	Coastal Inert Substrates	Firm Hard Bottom (boulders to embed)	Spawning Adult	Medium	2.00
Alewife	Mid Atlantic	Coastal Inert Substrates	Loose Coarse Bottom (gravel to cobble)	Juvenile & Young-of-Year	Medium	2.00
Alewife	Mid Atlantic	Coastal Inert Substrates	Loose Coarse Bottom (gravel to cobble)	Spawning Adult	Medium	2.00
Alewife	Mid Atlantic	Coastal Inert Substrates	Loose Fine Bottom (mud, silt, and sand)	Juvenile & Young-of-Year	Low	1.00
Alewife	Mid Atlantic	Coastal Inert Substrates	Loose Fine Bottom (mud, silt, and sand)	Spawning Adult	Low	1.00
Alewife	Mid Atlantic	Coastal Inert Substrates	Structured Sand (shoals, capes, offshore)	Juvenile & Young-of-Year	Medium	2.00
Alewife	Mid Atlantic	Riverine	Coastal Headwater Pond	Egg & Larva	High	3.50
Alewife	Mid Atlantic	Riverine	Coastal Headwater Pond	Juvenile & Young-of-Year	Medium	2.00
Alewife	Mid Atlantic	Riverine	Coastal Headwater Pond	Spawning Adult	High	3.50
Alewife	Mid Atlantic	Riverine	Low Gradient Coastal Stream	Egg & Larva	High	3.50
Alewife	Mid Atlantic	Riverine	Low Gradient Coastal Stream	Juvenile & Young-of-Year	Low	1.00
Alewife	Mid Atlantic	Riverine	Low Gradient Coastal Stream	Spawning Adult	High	3.50
Alewife	Mid Atlantic	Riverine	Moderate Gradient Large Mainstem Riv	Egg & Larva	Low	1.00
Alewife	Mid Atlantic	Riverine	Moderate Gradient Large Mainstem Riv	Juvenile & Young-of-Year	Low	1.00

Science and Data



Species	Region	Habitat Category	Habitat Type	Life Stage	Rank	Numeric Rank
	<ul style="list-style-type: none"> * South Atlantic * South Florida 	<ul style="list-style-type: none"> * Submerged Aquatic Vegetation 		<ul style="list-style-type: none"> * Egg & Larva * Juvenile & Young-of-Year 		
American Eel	South Atlantic	Submerged Aquatic Vegetation	Mesohaline & Polyhaline Species	Juvenile & Young-of-Year	Medium	2.00
American Eel	South Atlantic	Submerged Aquatic Vegetation	Tidal Fresh & Oligohaline Species	Juvenile & Young-of-Year	Medium	2.00
American Shad	South Atlantic	Submerged Aquatic Vegetation	Mesohaline & Polyhaline Species	Juvenile & Young-of-Year	Medium	2.00
American Shad	South Atlantic	Submerged Aquatic Vegetation	Tidal Fresh & Oligohaline Species	Juvenile & Young-of-Year	High	3.50
Atlantic Croaker	South Atlantic	Submerged Aquatic Vegetation	Mesohaline & Polyhaline Species	Juvenile & Young-of-Year	Medium	2.00
Atlantic Croaker	South Atlantic	Submerged Aquatic Vegetation	Tidal Fresh & Oligohaline Species	Juvenile & Young-of-Year	Medium	2.00
Atlantic Menhaden	South Atlantic	Submerged Aquatic Vegetation	Mesohaline & Polyhaline Species	Egg & Larva	Low	1.00
Atlantic Menhaden	South Atlantic	Submerged Aquatic Vegetation	Mesohaline & Polyhaline Species	Juvenile & Young-of-Year	Low	1.00
Atlantic Menhaden	South Atlantic	Submerged Aquatic Vegetation	Tidal Fresh & Oligohaline Species	Egg & Larva	Low	1.00
Atlantic Menhaden	South Atlantic	Submerged Aquatic Vegetation	Tidal Fresh & Oligohaline Species	Juvenile & Young-of-Year	Low	1.00
Atlantic Sharpnose Shark	South Atlantic	Submerged Aquatic Vegetation	Mesohaline & Polyhaline Species	Juvenile & Young-of-Year	Low	1.00
Atlantic Sharpnose Shark	South Atlantic	Submerged Aquatic Vegetation	Tidal Fresh & Oligohaline Species	Juvenile & Young-of-Year	Low	1.00
Atlantic Silverside	South Atlantic	Submerged Aquatic Vegetation	Mesohaline & Polyhaline Species	Egg & Larva	High	3.50
Atlantic Silverside	South Atlantic	Submerged Aquatic Vegetation	Mesohaline & Polyhaline Species	Juvenile & Young-of-Year	Medium	2.00

Science and Data



Hab in the MAB

Characterizing black sea bass habitat in the Mid-Atlantic Bight

Objective

To improve our understanding of the relationship between black sea bass abundance and habitat characteristics

Expected Outcome

Understand the influence of habitat on fisheries productivity and recruitment, and better manage the fishery.



Hab in the MAB

Characterizing black sea bass habitat in the Mid-Atlantic Bight

- Determine the preference of BSB for particular habitats by assessing their abundance, size structure, and feeding ecology within natural and artificial reefs
- Improve the understanding of the habitat characteristics of natural and artificial reefs
- Determine if reduced fragmentation and increased connectivity of habitats increases fish recruitment



Video Surveys



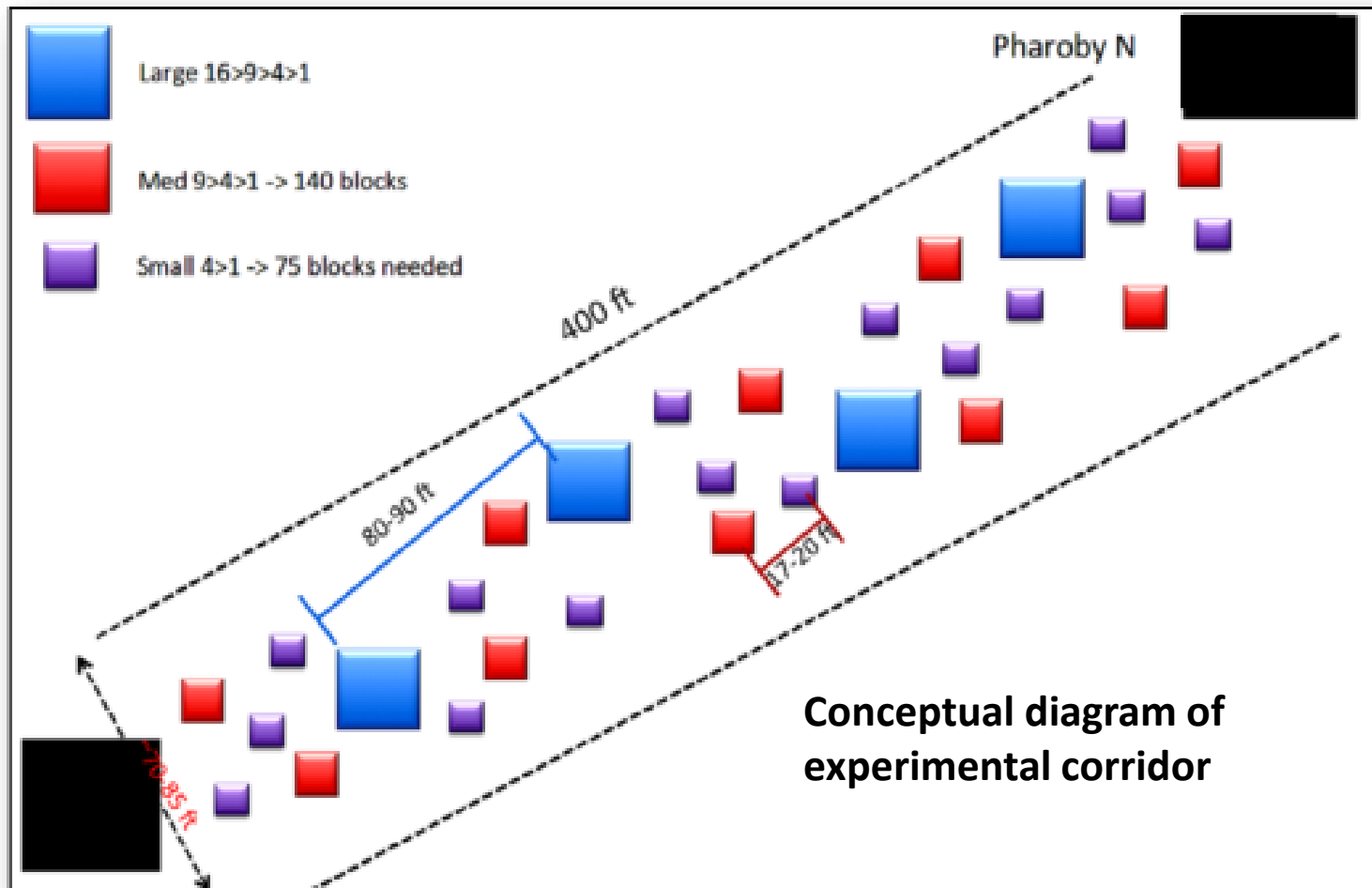


Stable Isotope Analysis & Aging





Habitat Connectivity





Southeast Fish Habitat Conservation Mapping

Objective

To spatially prioritize fish habitat protection and restoration sites through GIS mapping and analyses for the southeast region of the U.S. from NC to FL for ACFHP on-the-ground conservation prioritization

Expected Outcome

To help ACFHP and partners identify where best to invest efforts and future project funds.







Scope

Mid- & South Atlantic

- Riverine bottom
- Shellfish beds
- SAV
- Tidal vegetation

South Florida

- SAV
- Tidal vegetation
- Coral and live/hard bottom





Legend	
ACFHP Sub-Regions	
	North Atlantic
	Mid-Atlantic
	South Atlantic
	South Florida

Science and Data



Scope



Legend	
ACFHP Sub-Regions	
	North Atlantic
	Mid-Atlantic
	South Atlantic
	South Florida

Northern Scenario

- Riverine bottom
- Shellfish beds
- SAV
- Tidal vegetation

**Diadromous
assessment**



Science and Data



Scope







Northern Scenario

- Riverine bottom
- **Shellfish beds**
- **SAV**
- **Tidal vegetation**



**Estuarine
assessment**

Legend	
ACFHP Sub-Regions	
	North Atlantic
	Mid-Atlantic
	South Atlantic
	South Florida

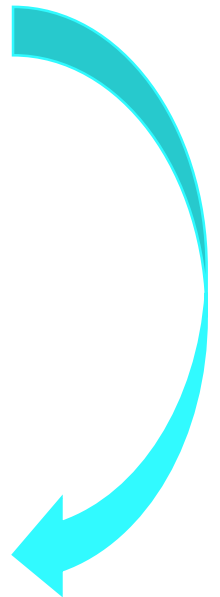
Science and Data



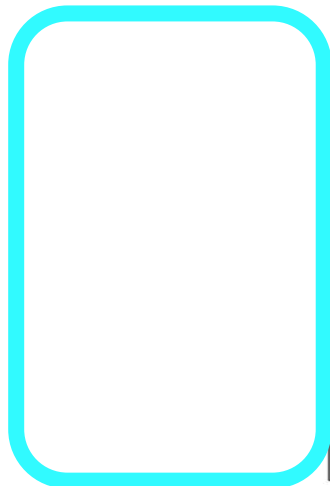
Scope





Southern Scenario

- SAV
- Tidal vegetation
- Coral and live/hard bottom



**Estuarine
assessment**



Legend	
ACFHP Sub-Regions	
	North Atlantic
	Mid-Atlantic
	South Atlantic
	South Florida

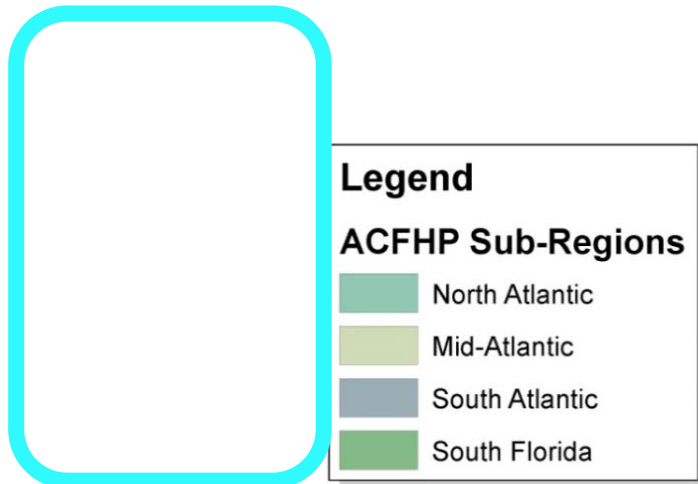
Science and Data



Scope

South Florida

- SAV
- Tidal vegetation
- **Coral and live/hard bottom**



**Coastal
assessment**





Science and Data



Scope

- Northern diadromous scenario
 - NHD catchment in watersheds with diadromous fish or drained into them
- Northern and southern estuarine scenario
 - 1-km² hexagon
- Southern coastal scenario
 - varied



Metrics and scoring

- Science & Data Committee webinar June 2017
- Science & Data Committee meeting Sept 2017
 - Metrics that covered the entire region
 - Metrics that most impact fish habitat
 - Tried to not be redundant
- Steering Committee meeting Oct 2017 & May 2018
- Science & Data committee webinar June 2018



Diadromous Assessment

Variable	Measurement	Metric
Impervious surface	area above the catchment that is impervious surface	10 points if <5% cumulative impervious surface
Point source pollution	Density of sites in catchment	10 points if catchment is ranked in the lowest 25% for pollution (least polluted)
Non-point source pollution	% of catchment covered by agriculture	10 points if the catchment is ranked in the lowest 25% for pollution (least polluted)
Riparian buffers	% of floodplain area with natural land cover	10 points if the catchment is ranked in the top 25% for natural coverage
Potential for species access	Diadromous species presence	10 points if the catchment has at least one diadromous species present
Flow alteration	Volume of all reservoirs per unit area of watershed	10 points if the catchment is ranks in the lowest 25% for volume
Fragmentation	Density of road crossings + dams in catchment	10 points if the catchment had zero dams downstream to the ocean. 10 points if the catchment is ranked in the lowest 25% for fragmentation (least amount of crossings and dams).
Sturgeon Critical Habitat	Sturgeon Critical Habitat designation	10 points if the catchment is designated Atlantic sturgeon Critical Habitat

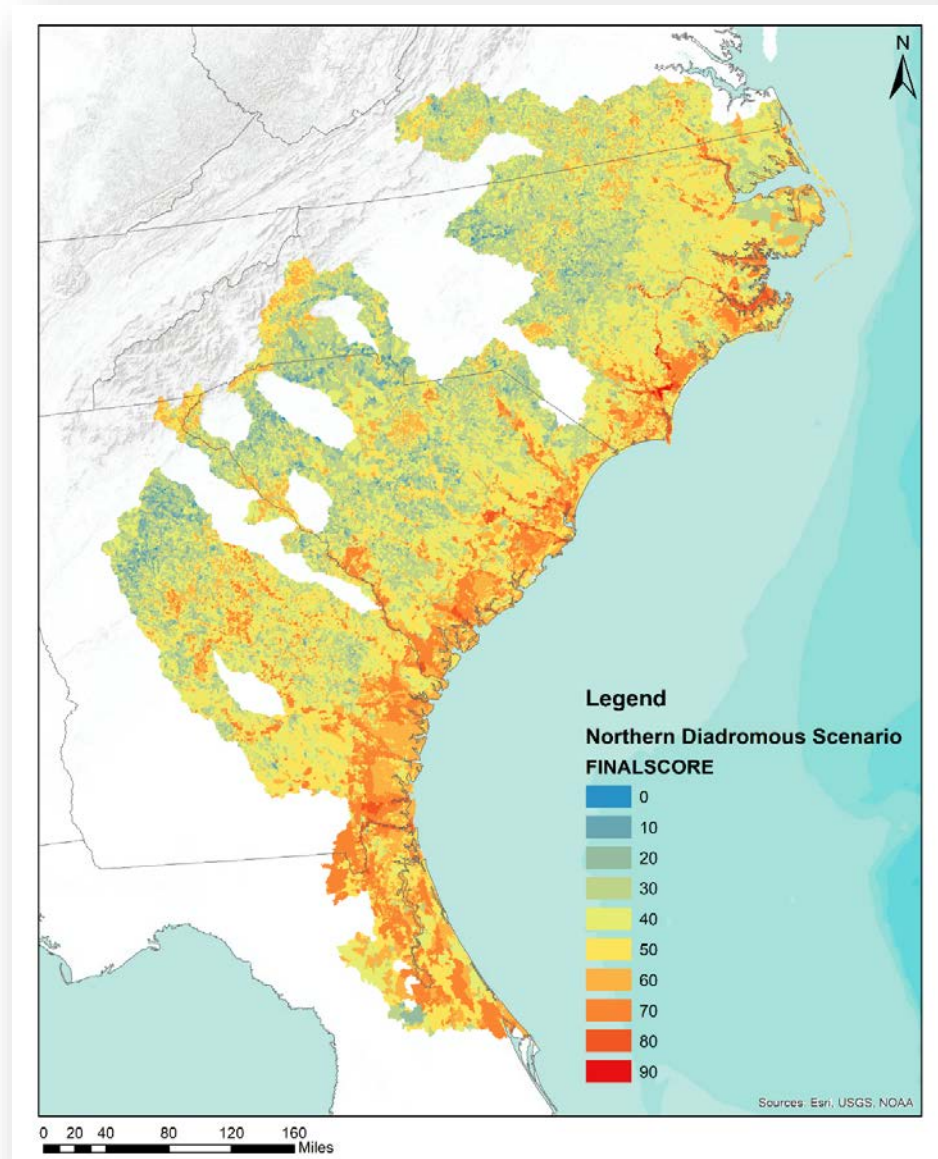


Flow Alteration

Volume/sqkm of storage in watershed above catchment



Diadromous Assessment





Estuarine Assessment

Variable	Measurement	Metric
Seagrass and oyster reef habitat	% of polygon covered by seagrass or oyster reef	10 points if the polygon ranks in the top 25% for coverage
Wetland habitat	% of polygon covered by wetlands	10 points if the polygon ranks in the top 25% for coverage
Estuarine-marsh-water edge	Length of estuarine-marsh-water edge in the polygon	10 points if the polygon ranks in the top 25% for length
Proximity to protected habitat	Distance to inlet (an HAPC in the South Atlantic)	10 points if the polygon is within ½ km of an inlet
Proximity to development	Distance from marinas and ports	10 points for the 25% of polygons farthest from marinas and ports
Water quality	Total # of NPDS permit sites in the inlet	10 points for the 25% of polygons with the least number of NPDS sites/ <u>inlet</u>
Hardened shoreline	Length of hardened shoreline within the polygon	10 points for the 25% of polygons with the least amount of hardened shoreline
Habitat fragmentation	Linear ft. of causeway within a polygon	10 points if the polygon has 0 ft. of causeways



Science and Data

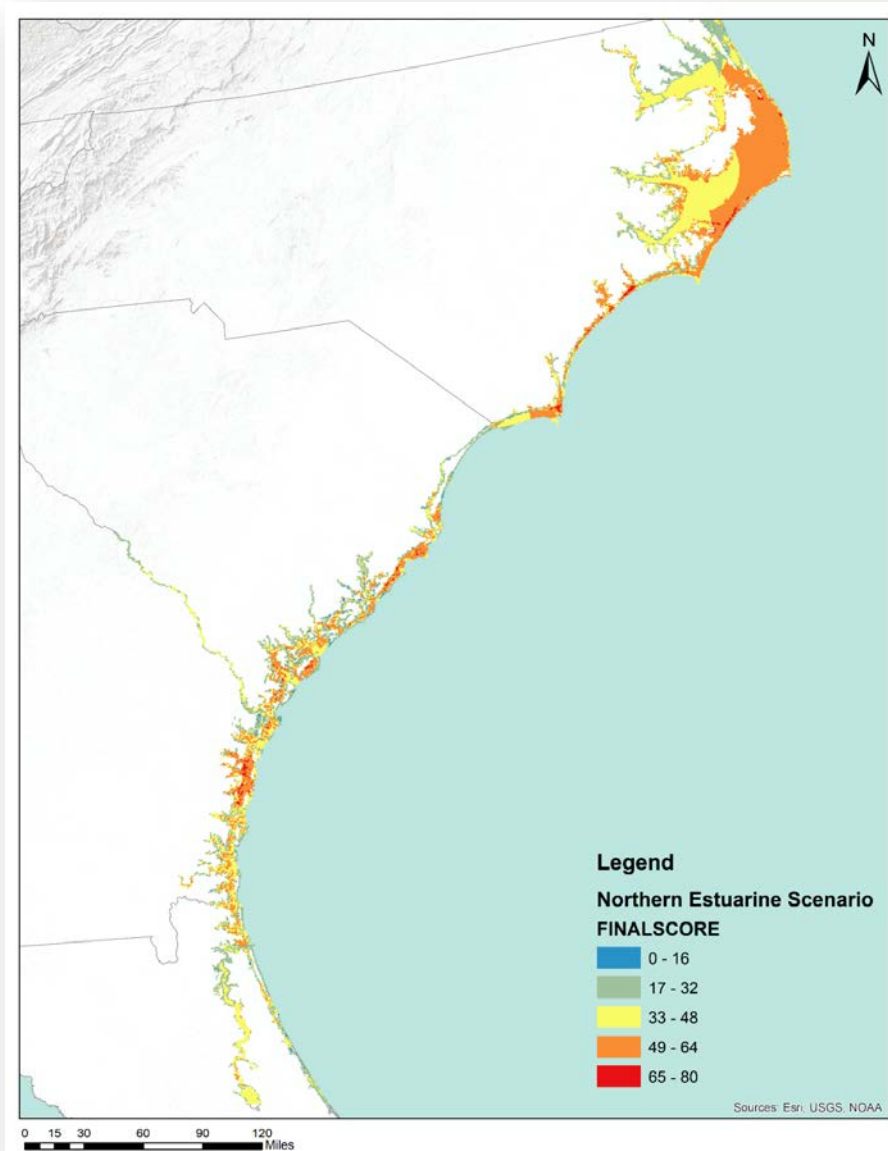


Wetlands



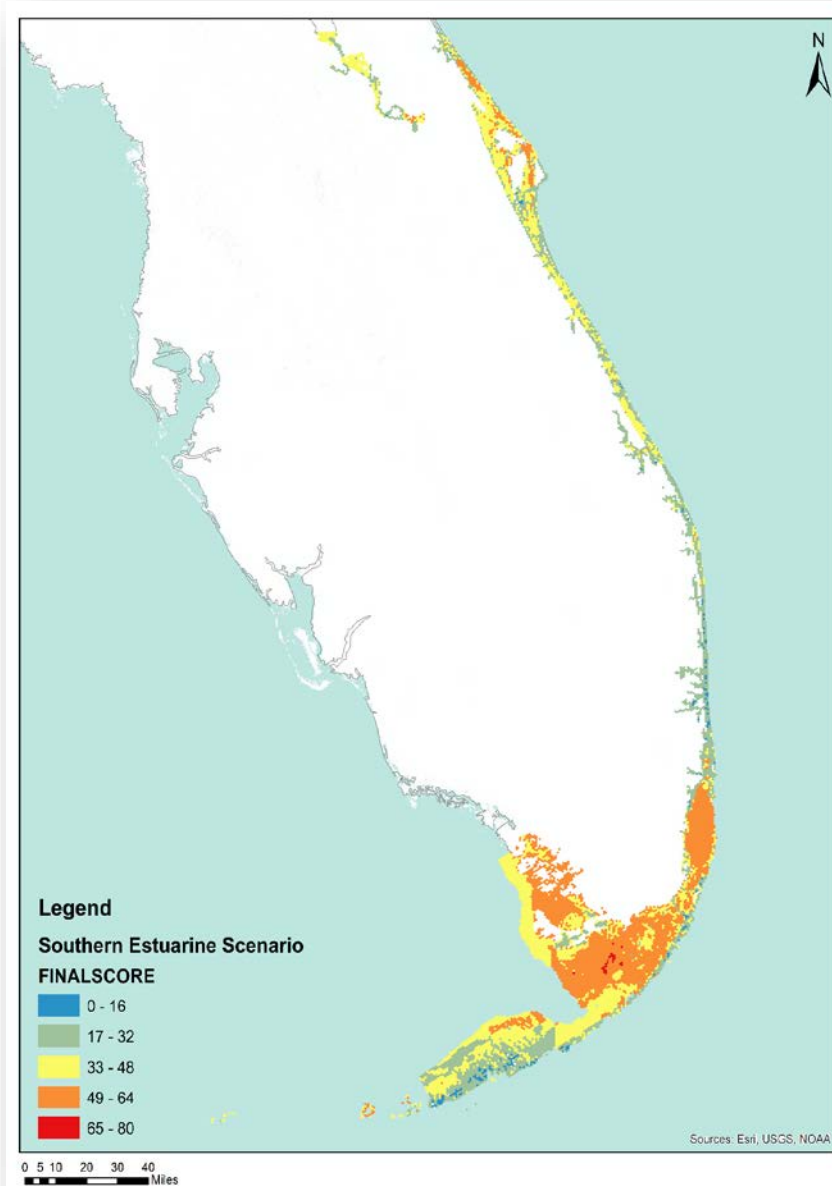


Northern Estuarine Assessment





Southern Estuarine Assessment



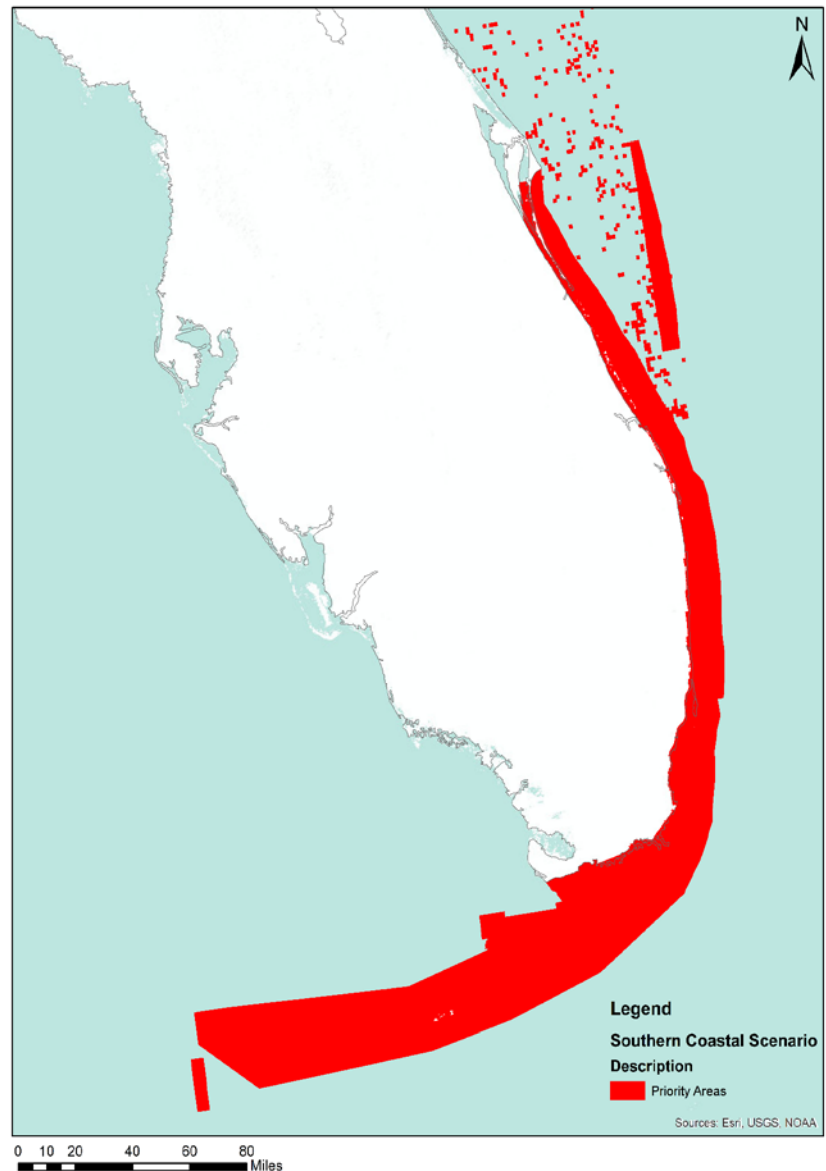


Coastal Assessment

- Decided all coral habitat was in need of conservation, regardless of quality
- Due to slow growth and immediate threats to S. FL reefs (bleaching, pollution, disease, burial)
- FWC Unified Reef Map
- Coral reefs and hard bottom HAPCs

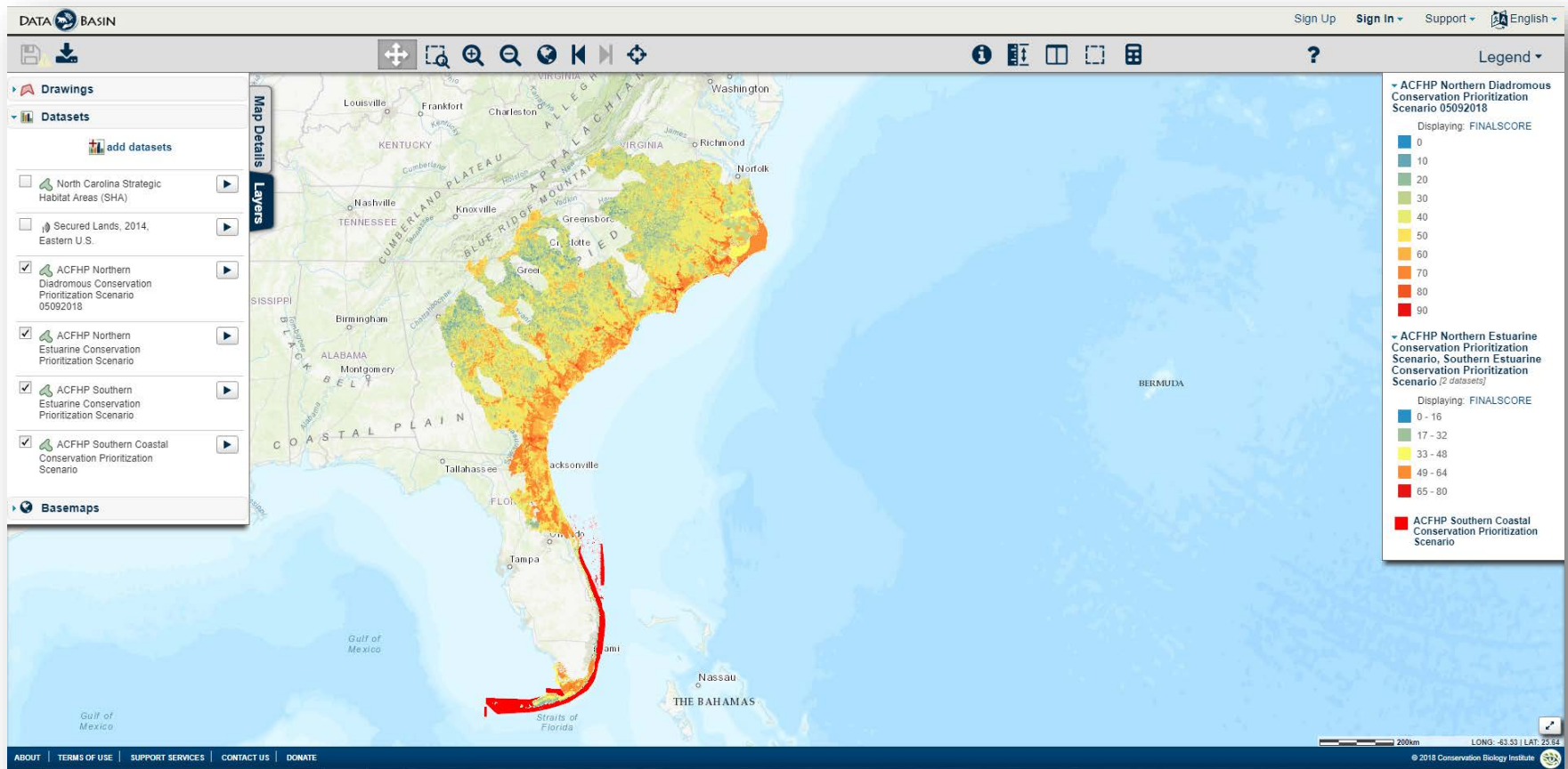


Coastal Assessment



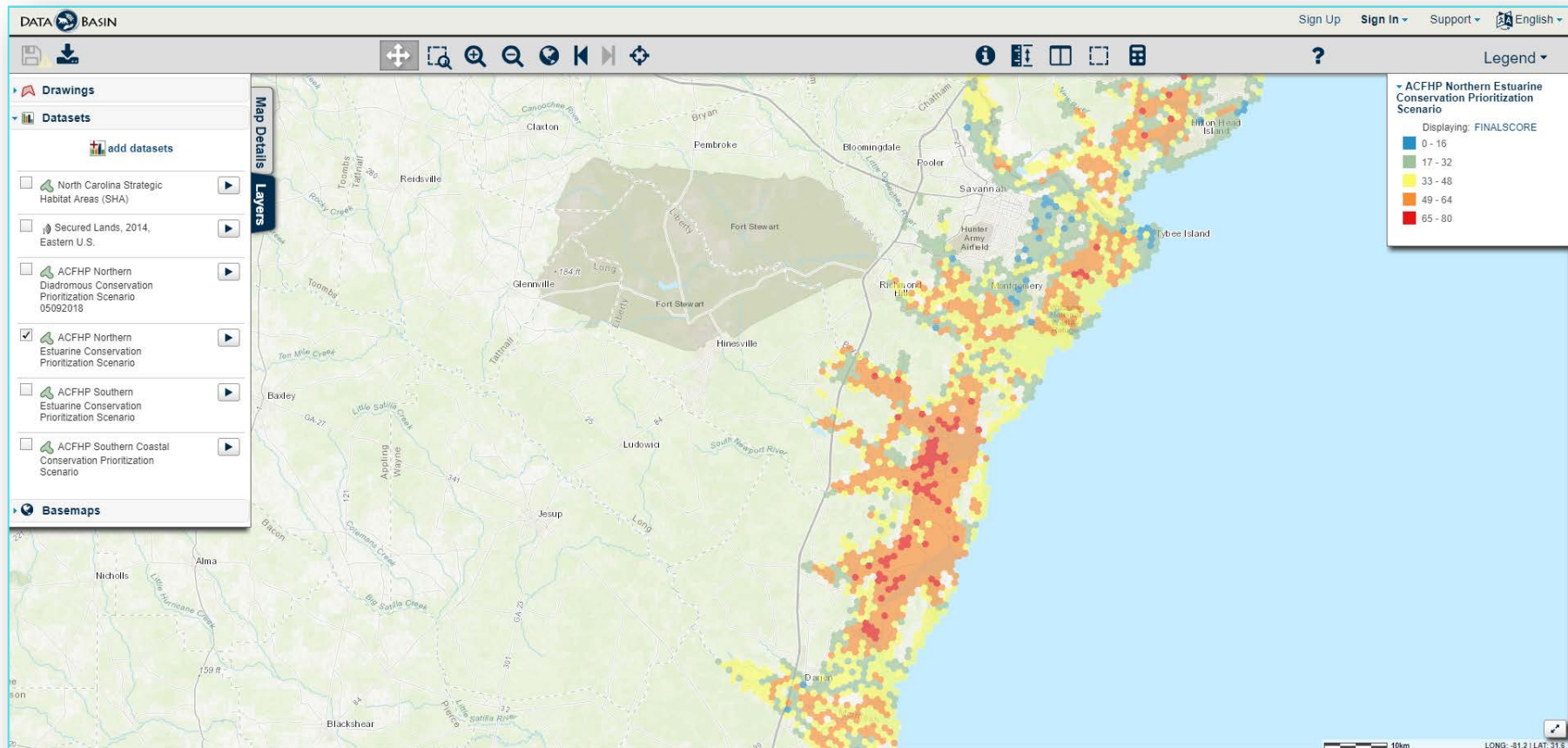


Databasin






Databasin



Science and Data



Databasin

DATA  BASIN Search by keyword or location

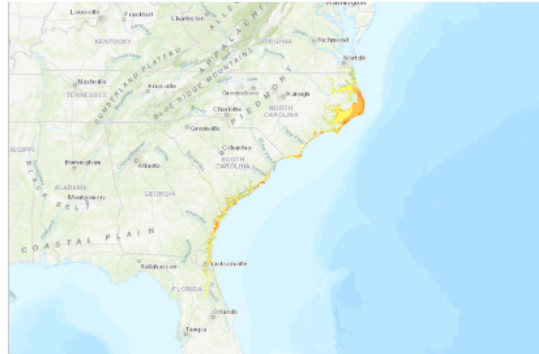
[Get Started](#) | [Explore](#) | [Create](#) | [Community](#) | [My Workspace](#)

DATA BASIN | DATASETS | ACFHP NORTHERN ESTUARINE CONSERVATION PRIORITIZATION SCENARIO

ACFHP Northern Estuarine Conservation Prioritization Scenario

Uploaded by Kat Hoenke Jul 18, 2018 (Last modified Oct 3, 2018)

[Download...](#) [Open in Map](#)



Description:
ACFHP Northern Estuarine Protection Prioritization Scenario. Metrics include seagrass, oyster, wetland, 303D, causeways, and development


Details | [Data Layers \(1\)](#)

Data Provided By:
Kat Hoenke, Jessica Graham, Jen Walters, Lisa Havel


Content date: not specified

Contact Organization: not specified

Contact Person(s): not specified



Use Constraints:
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This dataset is visible to everyone


Dataset Type:  Layer Package


Tags:
seagrass, protection, wetland, tidal, estuarine, assessment

Bookmarked by 1 Group
Included In 2 public maps

-  Atlantic Coastal Fish Habitat Partnership Protection Prioritization Scenarios
-  SERPPAS Coastal Resilience test map

About the Uploader

 **Kat Hoenke**
Contractor with SARP
I am a contractor for SARP.

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Science and Data



Next steps

- Finalize the report
- Create maps for each metric
- Announce it
- Start work on northeast assessment
- Improve on southeast assessment

On the Ground Projects



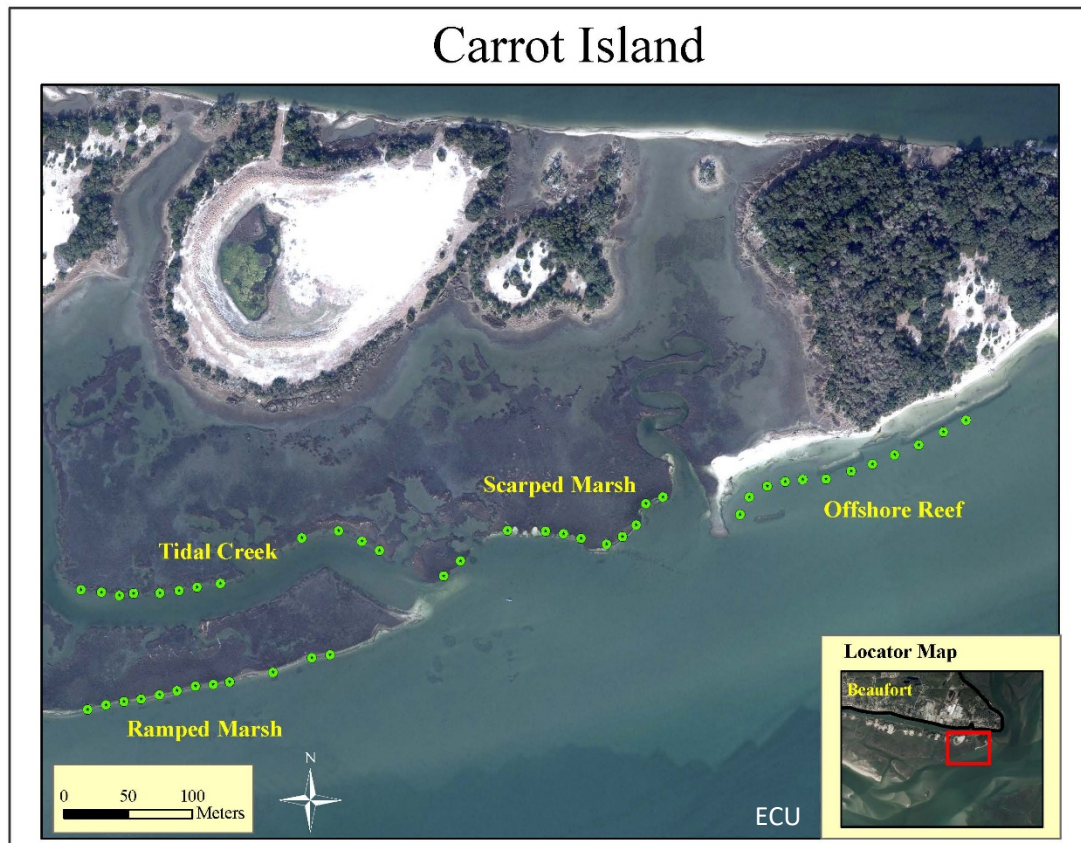
FY 2015 - present

- 9 funded projects
 - 2 shellfish beds
 - 2 tidal vegetation
 - 6 riverine
 - 1 SAV
- 5 endorsements
 - 2 shellfish beds
 - 2 tidal vegetation
 - 2 riverine
 - 1 SAV

On the Ground Projects



Oyster Reef Restoration in Back Sound



- Rachel Carson Reserve, NC
- ECU, NOAA, NCCF, USFWS
- Carrot Island eroding 1-2 m/yr
- 0.11 acres of oyster reef
- Protect 3 acres salt marsh



On the Ground Projects

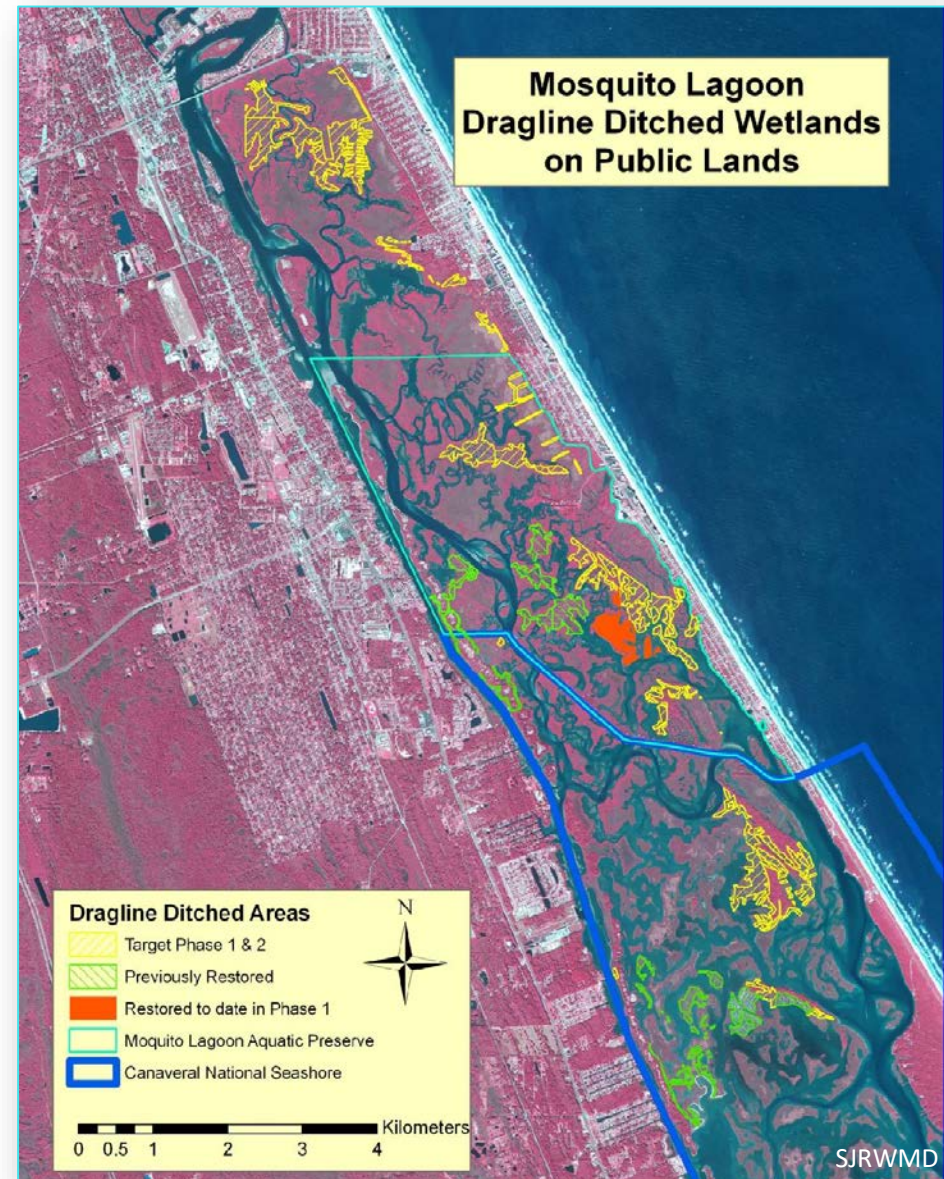


On the Ground Projects



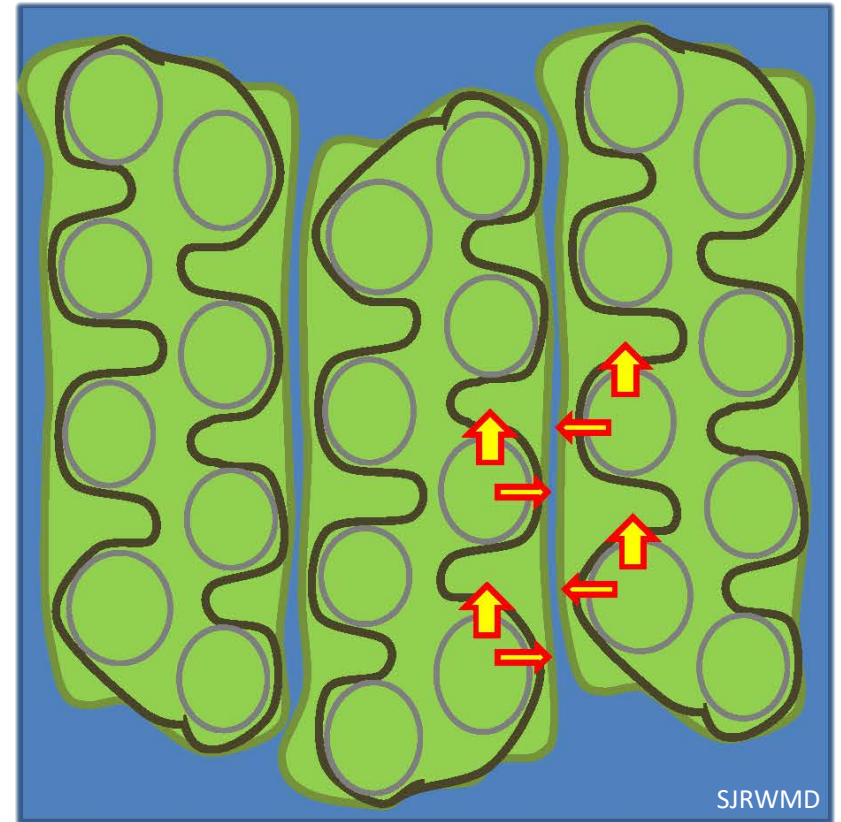
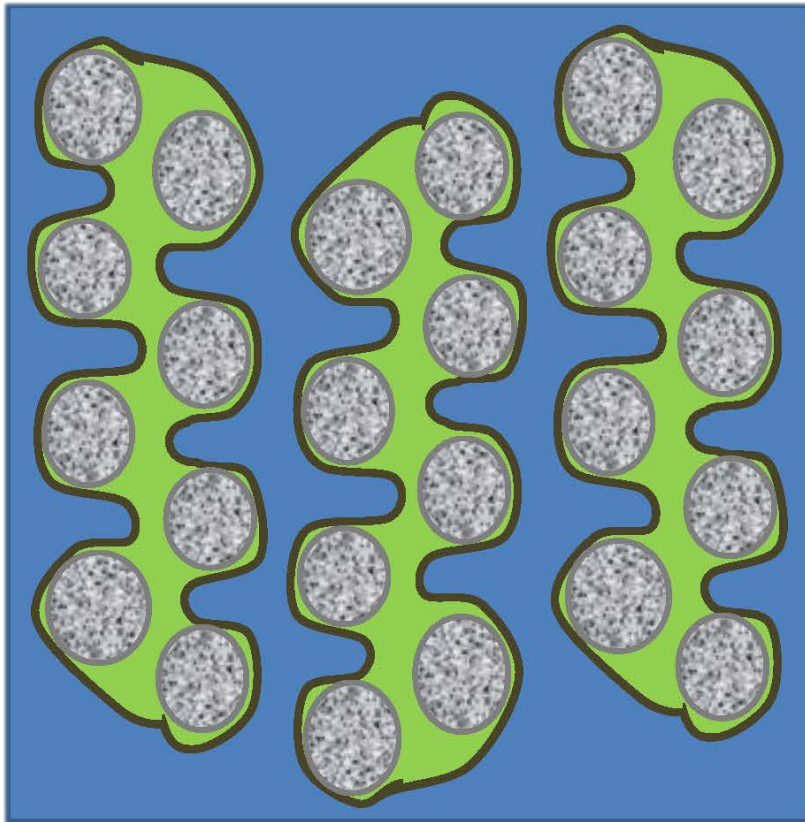
Dragline Ditch Restoration

- Northeast Florida
- FWC, SJRWMD, USFWS
- ~625 acres addressed
- 250 new acres
- 50 lbs of fish/acre/yr
- 31,250 lbs fish/yr





On the Ground Projects



On the Ground Projects

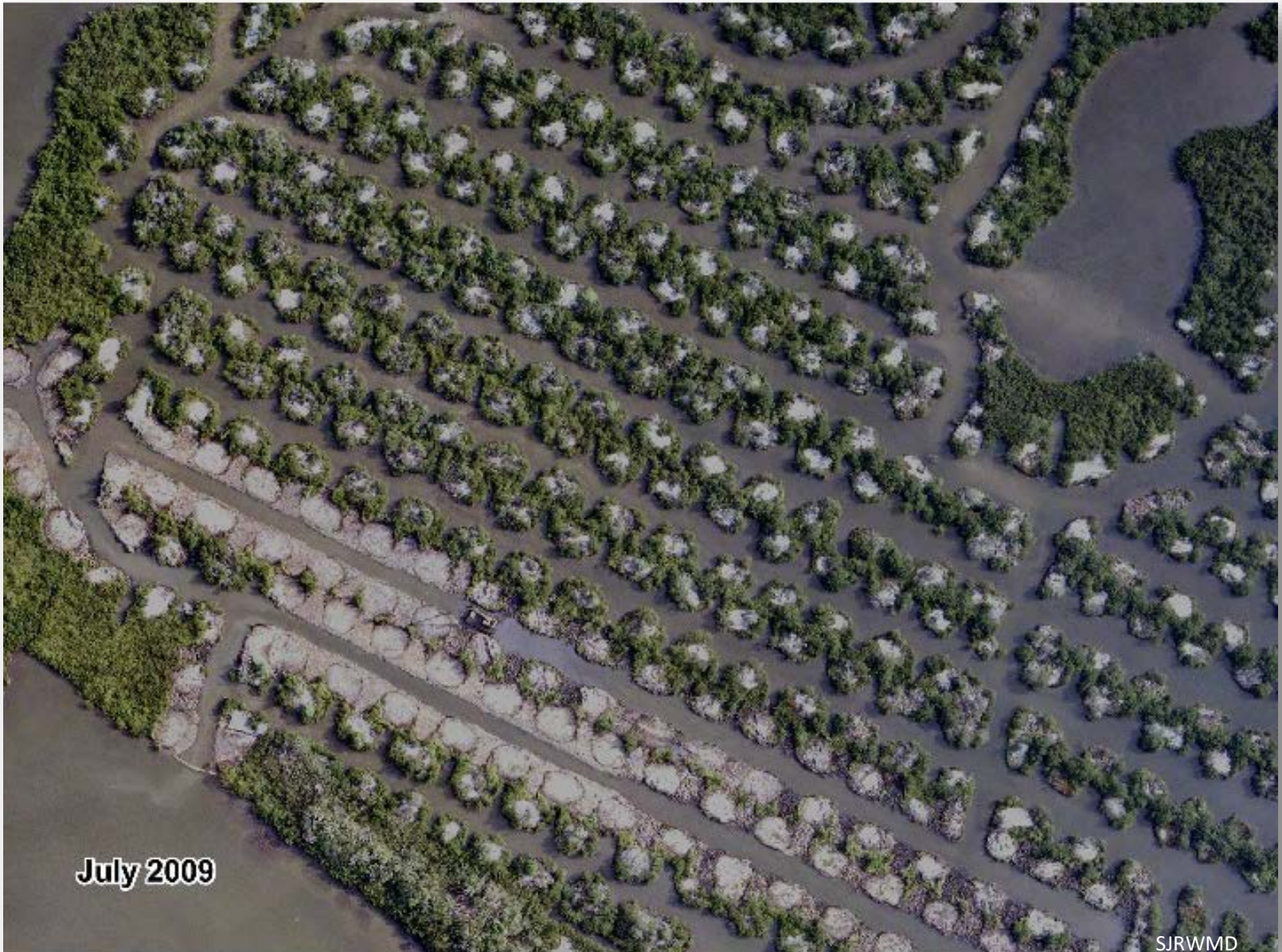


L. Walters, UCF

On the Ground Projects



On the Ground Projects



July 2009



On the Ground Projects



June 2015

SJRWMD

On the Ground Projects



Sheepscot River Restoration

- Whitefield & Alna, ME
- Atlantic Salmon Federation
- Coopers Mill Dam
- Head Tide Dam
- Built early 1800's
- Atlantic salmon Critical Habitat
- Dams greatest threat to continued existence



On the Ground Projects



Sheepscot River Restoration

- Removed Coopers Mill Dam
- Partially removing Head Tide Dam
- Reconnect 71 river miles



On the Ground Projects



Sheepscot River Restoration

- Hydrants installed for fire protection
- Preserve certain historical and recreational features



On the Ground Projects



Conservation

Moorings

- Coecles Harbor, NY
- NY DEC
- Eelgrass in decline across NY state
- Most extensive eelgrass in NY state
- Traditional moorings cause 'haloing'

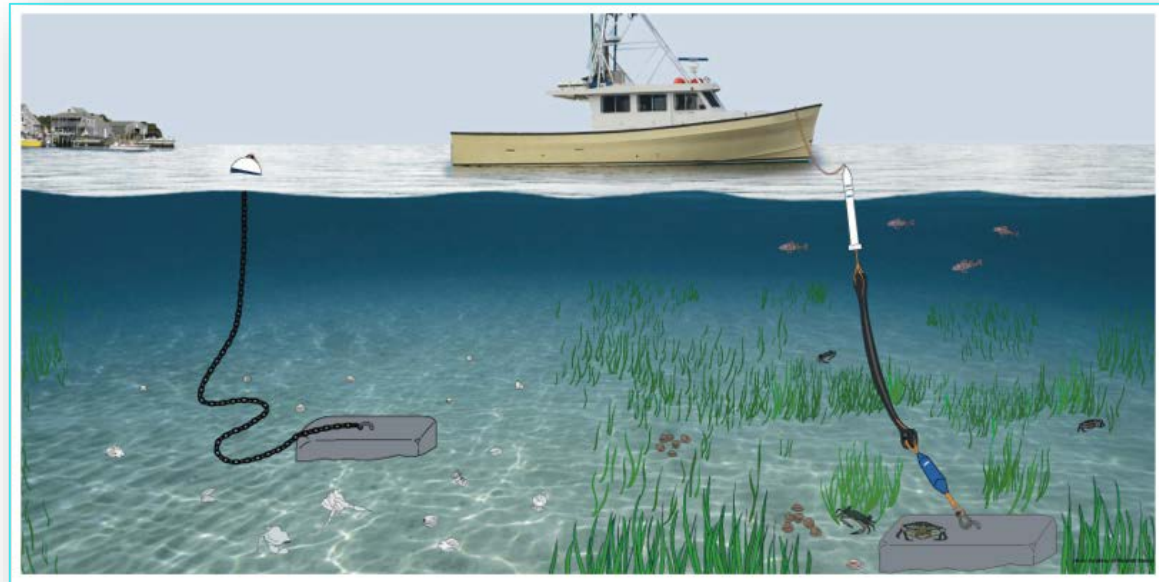


On the Ground Projects



Coecles Harbor

- Replacing traditional moorings with conservation moorings
- Restores and reconnects SAV, then protects for future



Questions?

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Atlantic Coastal Fish Habitat
Partnership Coordinator

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